Calculations required to be provided by the Permittee on site for all Inspections

PRCTI20250361

Structural Calculations

PREPARED FOR:

Welcome Ramp Systems Inc.
3902 B St Ste B, Auburn, WA 98001

PROJECT:

Centeris Puyallup
Generator Access Platforms
2241016.20

PREPARED BY:

Andrew McEachern, P.E., S.E.
Principal

DATE:

March 2025

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

City of Puyallup
Building
REVIEWED FOR COMPLIANCE
BSnowden
03/28/2025
11:41:56 AM

CITY OF PUYALLUP STATE OF WASHINGTON

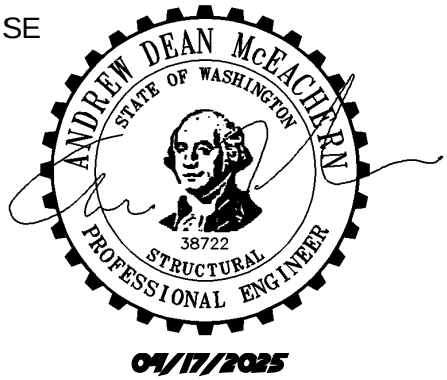
Structural Calculations

Welcome Ramp Systems

Centeris Access Platforms

Project # 2241015.20

Project Principal Drew McEachern, PE, SE
Project Manager Andy Pflueger, PE, SE



Design Criteria

Design Codes and Standards

Codes and Standards: Structural design and construction shall be in accordance with the applicable sections of the following codes and standards: International Building Code, 2021 Edition.

Structural Design Criteria:

Live Load Criteria (IBC):

1607.9 Loads on handrails, guards, grab bars and sets.

Handrails and guards shall be designed to resist a linear load of 50 pounds per linear foot (plf) in accordance with Section 4.5.1.1 of ASCE 7.

Exception: (1) For one- and two-family dwellings, only the single concentrated load required by Section 1607.8.1.1 shall be applied.

1607.9.1.1 Concentrated Load

Handrails and guards shall be designed to resist a concentrated load of 200 pounds in accordance with Section 4.5.1 of ASCE 7

1607.9.1.2 Guard Component Loads

Balusters, panel fillers and guard infill components, including all rails except the handrail and the top rail, shall be designed to resist a concentrated load of 50 pounds in accordance with Section 4.5.1.2 of ASCE 7.

Live Load Criteria (ASCE 7):

4.5.1 Handrail and Guardrail Systems.

Handrail and guardrail systems shall be designed to resist a single concentrated load of 200 lb applied in any direction at any point on the handrail or top rail to produce the maximum load effect on the element being considered and to transfer this load through the supports to the structure.

4.5.1.1 Uniform Load.

Handrail and guardrail systems shall also be designed to resist a load of 50 lb/ft (pound-force per linear foot) applied in any direction along the handrail or top rail and to transfer this load through the supports to the structure. This load need not be assumed to act concurrently with the concentrated load specified in Section 4.5.1.

EXCEPTIONS: The uniform load need not be considered for the following occupancies:
1. One- and two-family dwellings…

4.5.1.2 Guardrail System Component Loads.

Balusters, panel fillers, and guardrail infill components, including all rails except the handrail and the top rail, shall be designed to resist a horizontally applied normal load of 50 lb on an area not to exceed 12 in. by 12 in., including openings and space between rails and located so as to produce the maximum load effects. Reactions due to this loading are not required to be superimposed with the loads specified in Sections 4.5.1 and 4.5.1.1.

Wind Load Criteria:

Ultimate Wind Speed	104 mph
Risk Category	III
Wind Exposure	B
Topographic Factor	1.0

Seismic Criteria:

Risk Category			III
Seismic Importance Factor			1.5
S_s	= 1.258	S_1	= 0.434
S_{ds}	= 1.006	S_{d1}	= N/A
Site Class			= D - default
Seismic Design Category			= D

Component Amplification Factor (a_p): = 1

Component Response Modification Factor (R_p): = 2 ½

Soil Criteria:

Allowable Soil Bearing Capacity: 1,500 psf unless verified by geotechnical report or building official.

Materials Specifications:

The 1 ½" aluminum handrail shall be ASTM 6063-T5 with a yield stress of 16 ksi. All other aluminum parts shall be ASTM 6061-T6 aluminum with a yield stress of 35 ksi. Density of aluminum used shall be 170 lbs. per cubic foot.

Connections:

All bolts shall be grade 5 zinc plated, unless otherwise specified. Locking washers must be provided under all nuts and anchor bolts unless otherwise specified. All tech screws shall be zinc plated #10 x 1 ¼", self-tapping. All welding shall be in accordance with AWS D1.2 code and sized as shown on drawings. Sleeves shall be designed to resist moment and shear of sleeved connection.

Project Description:

This structural scope of work for this project involves the design of various configurations of exterior aluminum equipment access stairs and landings. It is the intention of the structural design to satisfy the force levels of the 2021 International Building Code.

The typical stair and landing assembly consists of pre-engineered planking spanning between aluminum edge beams. The beams span between aluminum columns, which are supported on bearing pads that sit directly on asphalt paving or properly prepared soils.

For the lateral force resisting system, the landings can be braced into adjacent equipment for lateral support or constructed as a self-supporting free-standing assembly. At free-standing landings, bracing is provided by the landing posts, which are designed as fixed columns at the welded connections to the landing frames.

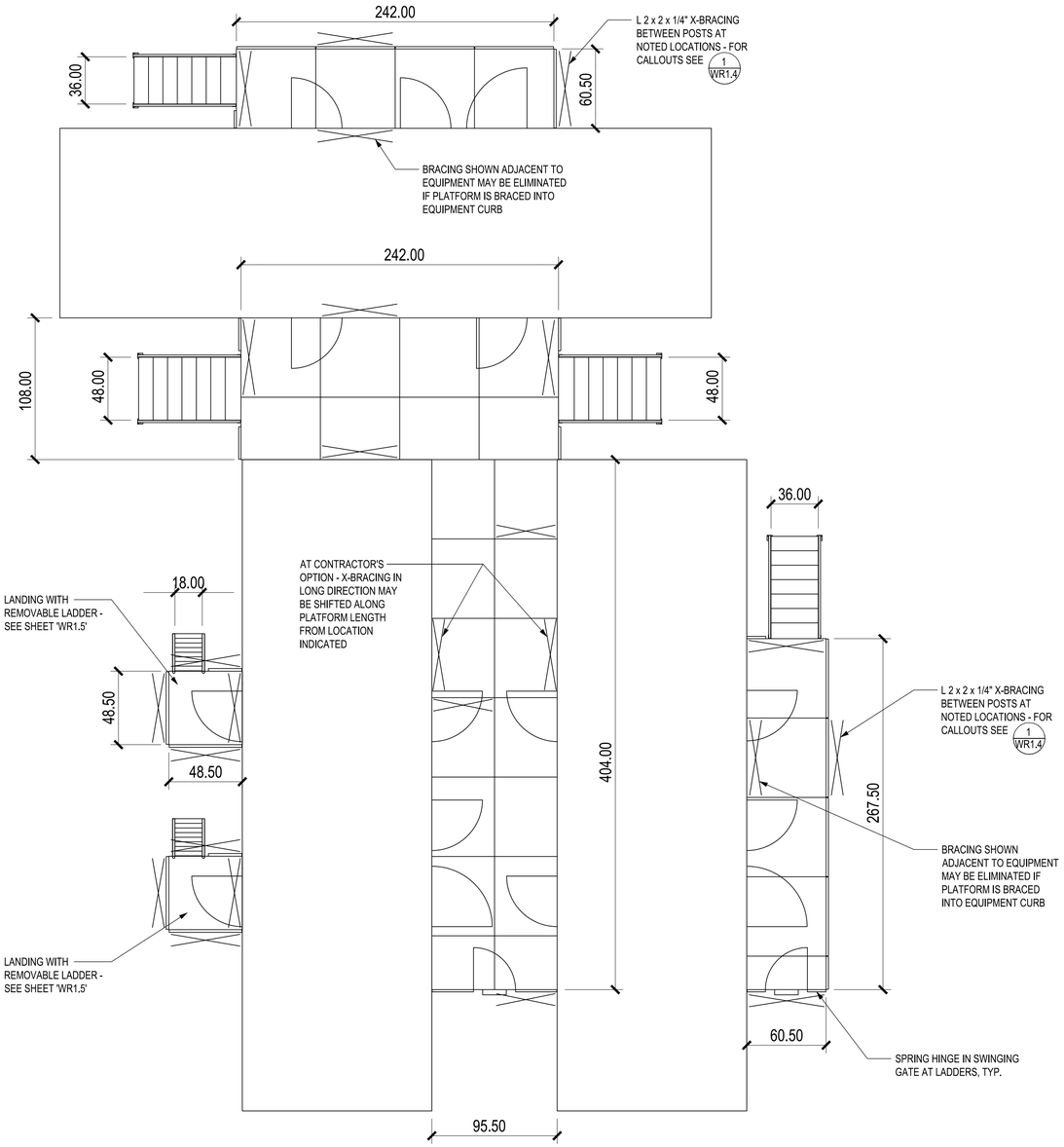
Handrails and guards were designed to resist out-of-plane live loads of 50 plf along each horizontal element or a concentrated load of 200 lbs at any point on the railing rails and posts.

Drilled anchors may be used for anchorage of ramps and stairs to asphalt or concrete substrates. When substrate material is concrete use (1) Simpson Titen HD ¼" dia. x 2 ½ "at each bearing plate. For asphalt substrate conditions use (1) 'Bolt-Hold' SP-10 at each bearing plate.

Centeris Voltage Park
Puyallup
Legend
Centeris
Feature 1
College Way
Google Earth
Image Landsat / Copernicus
Centeris
Centeris
500 ft
N
Builders Capital

Welcome Ramp Systems, Inc.

Component Aluminum Ramp System
for Safe, User-Friendly Building Access.
www.welcomerampsystems.com



WEST GENERATOR YARD

N.T.S.

1

CODE COMPLIANCE

1. 2021 INTERNATIONAL BUILDING CODE CH. 10 COMPLIANT.
2. MAX RAMP SLOPE = 1:12 (VERT / HORIZ)
3. CROSS SLOPE, MAX = 2%
4. STAIR RISE = 7" MAX, 4" MIN
5. DESIGN LOADING:

5.1.	DECK / RAMP	100 PSF
5.2.	STAIR TREAD	300 LBS CONC. PER TREAD
5.3.	RAILING	50 PLF OR 200 LBS CONC.
5.4.	LATERAL LOAD	600# PEDESTRIAN DYNAMIC LOADING PER 30-FT RAMP
5.5.	WIND LOAD	104 MPH, EXP B, Kzt=1.0
5.6.	SEISMIC LOAD	Sds=1.006 SITE CLASS = D- DEFAULT

6. DOOR CLEARANCE AS REQUIRED BY IBC
7. STANDARD 3 LINE RAIL FOR COMPONENTS 30" OR LESS FROM GRADE TO WALKING SURFACE OF RAMP, LANDING OR STAIR.
8. 42" VERTICAL PICKET GUARDRAIL FOR COMPONENTS OVER 30" FROM GRADE TO WALKING SURFACE OF RAMP, LANDING OR STAIR.
9. GRASPABLE CONTINUOUS HANDRAIL AT 36" OFF RAMP, PLATFORM, OR STAIR NOSING. INSTALL BOTH SIDES OF STAIRS AND RAMP.
10. HANDRAILS TO EXTEND 12" HORIZONTALLY OVER WALKING SURFACE AND RETURN TO WALL OR RAILING COLUMN.
11. RAMP AND RAILINGS TO HAVE CURBS WHICH DO NOT ALLOW PASSAGE OF 4" SPHERE WHERE ORIGINAL POSITION OF SPHERE IS WITHIN 4" OF THE WALKING SURFACE.
12. LEADING EDGE OF ALL STAIR TREADS AND PLATFORMS AT STAIRS TO HAVE A 2-INCH WIDE CONTRASTING STRIPE ACROSS FULL WIDTH OF STAIR.
13. FOOTING INFORMATION:
    12" x 12" x 1-1/2" PRESSURE TREATED WOOD OR 12" x 12" PRE-MANUFACTURED ABS PAD REQUIRE UNDER ALL ADJUSTABLE LEGS. WHERE ONE COLUMN SUPPORTS FOUR CORNERS OF P55 LANDING OR ONE COLUMN SUPPORTS TWO CORNERS OF P65 LANDING USE 16" x 16" PAD

GENERAL NOTES

1. THESE PLANS AND SPECIFICATIONS ARE NOT VALID FOR ANY OTHER ASSEMBLY THAN PRODUCTS PRODUCED BY WELCOME RAMP SYSTEMS, INC. PRODUCTS PRODUCED THE STANDARDS SET FORTH IN THESE DRAWINGS AND ACCOMPANYING DESIGN.
2. THE RAMP SYSTEM, STAIRS AND PLATFORM HAVE BEEN DESIGNED TO MEET IBC REQUIREMENTS.
3. RAMP DESIGN LIMITS: THE SLOPE SHALL BE 1:12 THE MAXIMUM CROSS SLOPE SHALL BE LESS THAN 2%. THE MAXIMUM RUN SHALL BE 30', THE MAXIMUM HEIGHT WITHOUT ADDITIONAL ENGINEERING JUSTIFICATION SHALL BE 48" FROM THE PLATFORM TO FINISHED GRADE.
4. WELCOME RAMPS, PLATFORMS, AND STAIRS ARE DESIGNED TO BE ANCHORED INTO ADJACENT MODULAR BUILDING AS WELL AS TO BE FULLY INDEPENDENT FREE STANDING CONDITIONS.
5. DETAILS SHOW MOST USED HEIGHTS, OTHER HEIGHTS ARE SIMILAR.

MATERIAL SPECIFICATIONS

PLANKING:

- THIS DESIGN IS LIMITED TO GALVANIZED METAL PLANKING MATERIALS. ALUMINUM PLANKING MAY BE PROVIDED IF REVIEWED AND APPROVED.
  - RAMP: ALL PLANKING SHALL BE 13 GA 12" W x 1 1/2" DEEP.
  - PLATFORM: ALL PLANKING SHALL BE 13 GA 12" W x 1 1/2" D. SEE PLAN FOR LENGTH.
  - STAIRS: ALL PLANKING SHALL BE 11 GA 12" W x 2" DEEP.

LEGS:

- LEVELING FEET ASSUMED TO BE PLACED ON SUITABLE FIRM BEARING GROUND.
- LEG MATERIAL SHALL BE 2" SQUARE x 0.125" ALUM. TUBING.
- LEG POCKETS SHALL BE 2.25" SQ x 0.125" ALUM. TUBING.
- ADJUSTING BOLT - 3/8" x 2 1/4" GRADE 5 CAP SCREW W/ NYLON LOCK NUT, ZINC PLATED.

ALUMINUM:

- 1 1/2" DIA ALUM. HANDRAIL SHALL BE 6063-T5 WITH A YIELD STRESS OF 16 KSI.
- ALL OTHER ALUMINUM PARTS SHALL BE 6061-T6 ALUMINUM WITH A YIELD STRESS OF 35 KSI.

HAND RAILS:

- STANDARD HANDRAIL (W/O PICKETS) IS ALLOWED ON FINISHED PLATFORM HEIGHTS OF 30" AND LESS. ALL PLATFORM HEIGHTS ABOVE 30" SHALL USE PICKET STYLE HANDRAILS.
- STAIRS AND RAMPS: USE 1 1/2" SQ x 5/32" THICK WALLED TUBING FOR POSTS AND HORIZONTAL RAILS EXCEPT FOR THE TOP 1-1/2" DIA ROUND HANDRAIL.
- PLATFORM: USE 1 1/2" SQ X 5/32" THICK WALLED TUBING FOR POSTS AND USE 1-1/2" SQ X 5/32" FOR HORIZONTAL RAILS.
- HEIGHT: TOP OF GRIPPING SURFACES OF HANDRAIL SHALL BE 36 INCHES VERTICALLY ABOVE WALKING SURFACES.

WELDING:

- ALL REFERENCES TO WELDING ON PLAN SET REFER TO IN-PLANT FABRICATION. NO ON-SITE WELDING IS REQUIRED.
- FABRICATION PLANT WELDING BY WELDERS CERTIFIED BY A THIRD PARTY INSPECTOR AND IN ACCORDANCE WITH ANSI / AWS D1.2 CODE.
- WELD SIZES ARE EQUAL OR LARGER THAN THE ELEMENT BEING WELDED.
- WELDING IS ALL AROUND UNLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO AVOID EXCESS WARPING OF WELDED ELEMENTS.
- FABRICATOR TO CERTIFY ASSEMBLED PARTS ARE PER THE DRAWINGS PER IBC 1704.2.5. 1

BOLTS:

- ALL BOLTS SHALL BE GRADE 5 ZINC PLATED, UNLESS OTHERWISE SPECIFIED.
- PROVIDE LOCKING WASHERS UNDER ALL NUTS AND ANCHOR BOLTS UNLESS OTHERWISE SPECIFIED.
- HIGH STRENGTH BOLTS ARE DESIGNED AT LESS THAN 50% CAPACITY FOR ADDITIONAL FACTOR OF SAFETY AND DO NOT REQUIRE SPECIAL INSPECTION.

TEKS SCREWS:

- ZINC PLATED #10 x 1 1/4", SELF TAPPING.

AHBL
TACOMA • SEATTLE • SPOKANE • TRI-CITIES
2215 North 30th Street, Suite 300, Tacoma, WA 98403
253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

Project Title:

CENTERIS PUYALLUP ACCESS PLANS DECK, RAMP & STAIRS

Client:

WELCOME RAMP SYSTEMS INC.

3902 B St NW Ste B, Auburn, WA 98001

Project No.

2241015.20

Issue Set & Date:

PERMIT SUBMITTAL

3.03.2025

ANDREW DEAN McCAMMANT — STATE OF WASHINGTON — 38722 — STRUCTURAL — PROFESSIONAL ENGINEER

NOTICE:
ALTERATION OF THIS DOCUMENT SHALL INVALIDATE THE PROFESSIONAL SEAL AND SIGNATURE. PUBLICATION OF THIS DOCUMENT DOES NOT DEROGATE FROM RESERVED OWNERSHIP RIGHTS IN IT. THIS DOCUMENT IS FOR USE ONLY FOR THE PROJECT IDENTIFIED IN THE TITLE BLOCK AND IS NOT TO BE USED FOR REPAIR, REMODEL OR ADDITION TO THAT PROJECT OR FOR ANY OTHER PROJECT.

A
A
A
1 PLAN REVIEW RESPONSE 4/17/2025

Revisions:

Sheet Title:

WEST GENERATOR YARD ACCESS PLATFORM PLANS

Designed by:	Drawn by:	Checked by:
DAR	KJK	ADM

Sheet No.

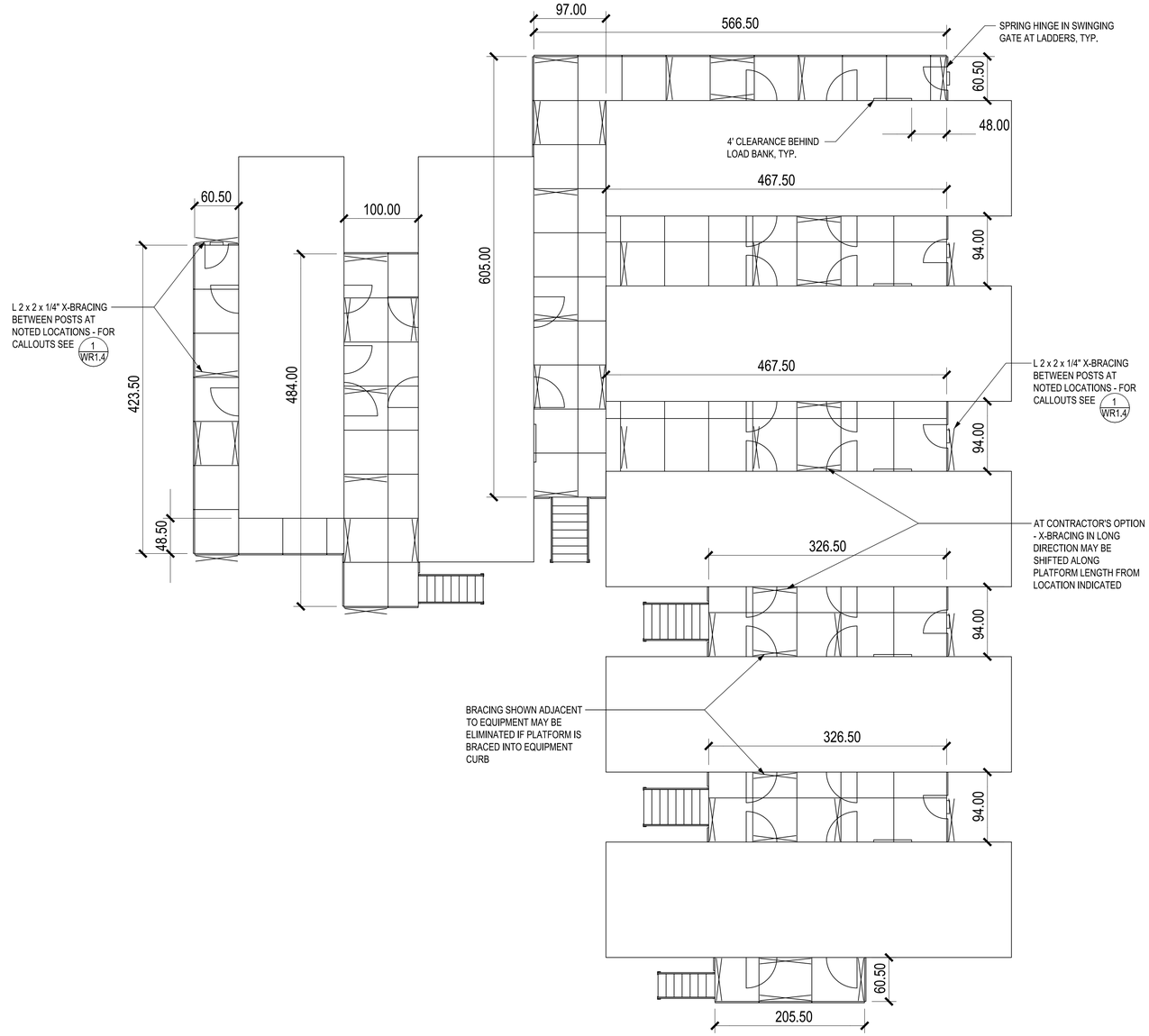
WR1.1

1 of 7 Sheets

DATE: February 13, 2025 FILENAME: Q:\2024\2241015\20_STR\CAD\2241015-WR10 - Standard Plans.dwg

Welcome Ramp Systems, Inc.

Component Aluminum Ramp System
for Safe, User-Friendly Building Access.
www.welcomerampsystems.com



EAST GENERATOR YARD

N.T.S.

1

CODE COMPLIANCE

1. 2021 INTERNATIONAL BUILDING CODE CH. 10 COMPLIANT.
2. MAX RAMP SLOPE = 1:12 (VERT / HORIZ)
3. CROSS SLOPE, MAX = 2%
4. STAIR RISE = 7" MAX, 4" MIN
5. DESIGN LOADING:

5.1.	DECK / RAMP	100 PSF
5.2.	STAIR TREAD	300 LBS CONC. PER TREAD
5.3.	RAILING	50 PLF OR 200 LBS CONC.
5.4.	LATERAL LOAD	600# PEDESTRIAN DYNAMIC LOADING PER 30-FT RAMP
5.5.	WIND LOAD	104 MPH, EXP B, Kzt=1.0
5.6.	SEISMIC LOAD	Sds=1.006 SITE CLASS = D-DEFAULT

6. DOOR CLEARANCE AS REQUIRED BY IBC
7. STANDARD 3 LINE RAIL FOR COMPONENTS 30" OR LESS FROM GRADE TO WALKING SURFACE OF RAMP, LANDING OR STAIR.
8. 42" VERTICAL PICKET GUARDRAIL FOR COMPONENTS OVER 30" FROM GRADE TO WALKING SURFACE OF RAMP, LANDING OR STAIR.
9. GRASPABLE CONTINUOUS HANDRAIL AT 36" OFF RAMP, PLATFORM, OR STAIR NOSING. INSTALL BOTH SIDES OF STAIRS AND RAMP.
10. HANDRAILS TO EXTEND 12" HORIZONTALLY OVER WALKING SURFACE AND RETURN TO WALL OR RAILING COLUMN.
11. RAMP AND RAILINGS TO HAVE CURBS WHICH DO NOT ALLOW PASSAGE OF 4" SPHERE WHERE ORIGINAL POSITION OF SPHERE IS WITHIN 4" OF THE WALKING SURFACE.
12. LEADING EDGE OF ALL STAIR TREADS AND PLATFORMS AT STAIRS TO HAVE A 2-INCH WIDE CONTRASTING STRIPE ACROSS FULL WIDTH OF STAIR.
13. FOOTING INFORMATION:
    12" x 12" x 1-1/2" PRESSURE TREATED WOOD OR 12" x 12" PRE-MANUFACTURED ABS PAD REQUIRE UNDER ALL ADJUSTABLE LEGS. WHERE ONE COLUMN SUPPORTS FOUR CORNERS OF P55 LANDING OR ONE COLUMN SUPPORTS TWO CORNERS OF P65 LANDING USE 16" x 16" PAD

GENERAL NOTES

1. THESE PLANS AND SPECIFICATIONS ARE NOT VALID FOR ANY OTHER ASSEMBLY THAN PRODUCTS PRODUCED BY WELCOME RAMP SYSTEMS, INC. PRODUCTS PRODUCED THE STANDARDS SET FORTH IN THESE DRAWINGS AND ACCOMPANYING DESIGN.
2. THE RAMP SYSTEM, STAIRS AND PLATFORM HAVE BEEN DESIGNED TO MEET IBC REQUIREMENTS.
3. RAMP DESIGN LIMITS: THE SLOPE SHALL BE 1:12 THE MAXIMUM CROSS SLOPE SHALL BE LESS THAN 2%. THE MAXIMUM RUN SHALL BE 30', THE MAXIMUM HEIGHT WITHOUT ADDITIONAL ENGINEERING JUSTIFICATION SHALL BE 48" FROM THE PLATFORM TO FINISHED GRADE.
4. WELCOME RAMPS, PLATFORMS, AND STAIRS ARE DESIGNED TO BE ANCHORED INTO ADJACENT MODULAR BUILDING AS WELL AS TO BE FULLY INDEPENDENT FREE STANDING CONDITIONS.
5. DETAILS SHOW MOST USED HEIGHTS, OTHER HEIGHTS ARE SIMILAR.

MATERIAL SPECIFICATIONS

PLANKING:

- THIS DESIGN IS LIMITED TO GALVANIZED METAL PLANKING MATERIALS. ALUMINUM PLANKING MAY BE PROVIDED IF REVIEWED AND APPROVED.
  - RAMP: ALL PLANKING SHALL BE 13 GA 12" W x 1 1/2" DEEP.
  - PLATFORM: ALL PLANKING SHALL BE 13 GA 12" W x 1 1/2" D. SEE PLAN FOR LENGTH.
  - STAIRS: ALL PLANKING SHALL BE 11 GA 12" W x 2" DEEP.

LEGS:

- LEVELING FEET ASSUMED TO BE PLACED ON SUITABLE FIRM BEARING GROUND.
- LEG MATERIAL SHALL BE 2" SQUARE x 0.125" ALUM. TUBING.
- LEG POCKETS SHALL BE 2.25" SQ x 0.125" ALUM. TUBING.
- ADJUSTING BOLT - 3/8" x 2 1/4" GRADE 5 CAP SCREW W/ NYLON LOCK NUT, ZINC PLATED.

ALUMINUM:

- 1 1/2" DIA ALUM. HANDRAIL SHALL BE 6063-T5 WITH A YIELD STRESS OF 16 KSI.
- ALL OTHER ALUMINUM PARTS SHALL BE 6061-T6 ALUMINUM WITH A YIELD STRESS OF 35 KSI.

HAND RAILS:

- STANDARD HANDRAIL (W/O PICKETS) IS ALLOWED ON FINISHED PLATFORM HEIGHTS OF 30" AND LESS. ALL PLATFORM HEIGHTS ABOVE 30" SHALL USE PICKET STYLE HANDRAILS.
- STAIRS AND RAMPS: USE 1 1/2" SQ x 5/32" THICK WALLED TUBING FOR POSTS AND HORIZONTAL RAILS EXCEPT FOR THE TOP 1-1/2" DIA ROUND HANDRAIL.
- PLATFORM: USE 1 1/2" SQ X 5/32" THICK WALLED TUBING FOR POSTS AND USE 1-1/2" SQ X 5/32" FOR HORIZONTAL RAILS.
- HEIGHT: TOP OF GRIPPING SURFACES OF HANDRAIL SHALL BE 36 INCHES VERTICALLY ABOVE WALKING SURFACES.

WELDING:

- ALL REFERENCES TO WELDING ON PLAN SET REFER TO IN-PLANT FABRICATION. NO ON-SITE WELDING IS REQUIRED.
- FABRICATION PLANT WELDING BY WELDERS CERTIFIED BY A THIRD PARTY INSPECTOR AND IN ACCORDANCE WITH ANSI / AWS D1.2 CODE.
- WELD SIZES ARE EQUAL OR LARGER THAN THE ELEMENT BEING WELDED.
- WELDING IS ALL AROUND UNLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO AVOID EXCESS WARPING OF WELDED ELEMENTS.
- CONTRACTOR TO CERTIFY ASSEMBLED PARTS ARE PER THE DRAWINGS PER IBC 1704.2.5. 1

BOLTS:

- ALL BOLTS SHALL BE GRADE 5 ZINC PLATED, UNLESS OTHERWISE SPECIFIED.
- PROVIDE LOCKING WASHERS UNDER ALL NUTS AND ANCHOR BOLTS UNLESS OTHERWISE SPECIFIED.
- HIGH STRENGTH BOLTS ARE DESIGNED AT LESS THAN 50% CAPACITY FOR ADDITIONAL FACTOR OF SAFETY AND DO NOT REQUIRE SPECIAL INSPECTION.

TEKS SCREWS:

- ZINC PLATED #10 x 1 1/4", SELF TAPPING.

AHBL
TACOMA • SEATTLE • SPOKANE • TRI-CITIES
2215 North 30th Street, Suite 300, Tacoma, WA 98403
253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

Project Title:

CENTERIS PUYALLUP ACCESS PLANS DECK, RAMP & STAIRS

Client:

WELCOME RAMP SYSTEMS INC.

3902 B St NW Ste B, Auburn, WA 98001

Project No.

2241015.20

Issue Set & Date:

PERMIT SUBMITTAL

3.03.2025

ANDREW DEAN McCAMMANT — STATE OF WASHINGTON — 38722 — STRUCTURAL — PROFESSIONAL ENGINEER

NOTICE:
ALTERATION OF THIS DOCUMENT SHALL INVALIDATE THE PROFESSIONAL SEAL AND SIGNATURE. PUBLICATION OF THIS DOCUMENT DOES NOT DEROGATE FROM RESERVED OWNERSHIP RIGHTS IN IT. THIS DOCUMENT IS PREPARED ONLY FOR THE PROJECT IDENTIFIED ON THE TITLE BLOCK AND IS NOT TO BE USED FOR REPAIR, REMODEL OR ADDITION TO THAT PROJECT OR FOR ANY OTHER PROJECT.

1 PLAN REVIEW RESPONSE 4/17/2025

Revisions:

Sheet Title:

EAST GENERATOR YARD ACCESS PLATFORM PLANS

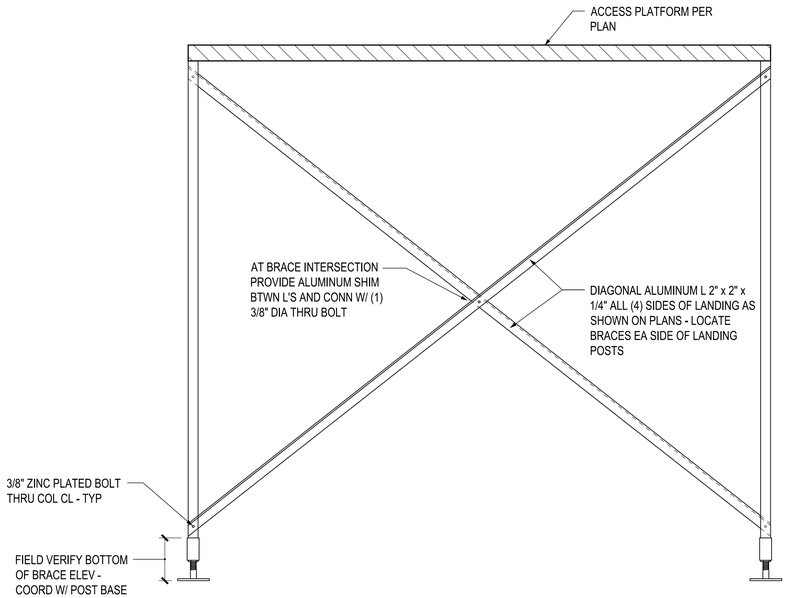
Designed by:	Drawn by:	Checked by:
DAR	KJK	ADM

Sheet No.

WR1.2

2 of 7 Sheets

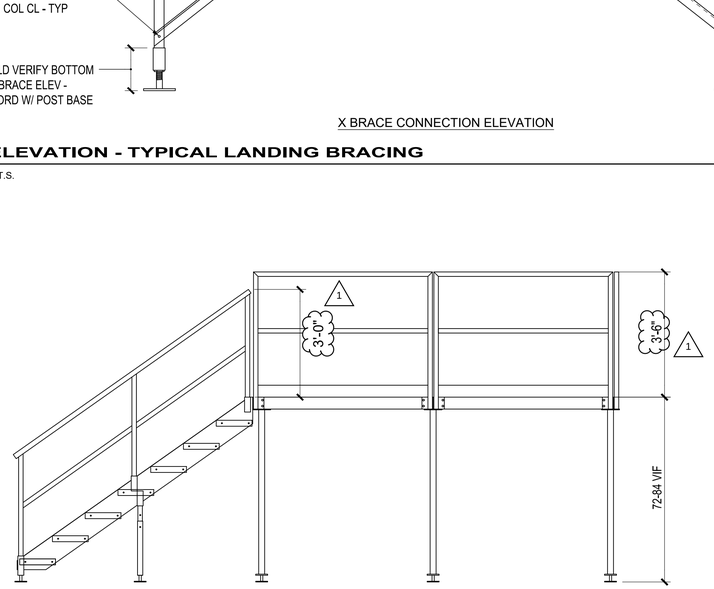
DATE: February 13, 2025 FILENAME: Q:\2024\2241015\20_STR\CAD\2241015-WR10 - Standard Plans.dwg



X BRACE CONNECTION ELEVATION

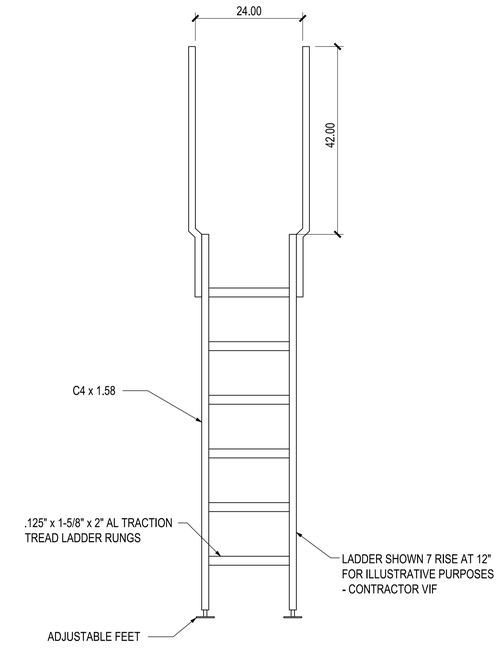
ELEVATION - TYPICAL LANDING BRACING 1

N.T.S.



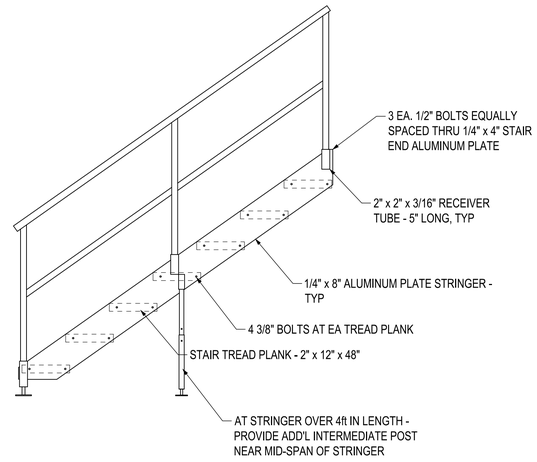
TYPICAL LANDING ELEVATION 2

N.T.S.



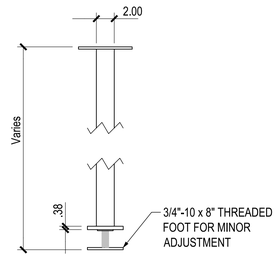
LADDER ELEVATION 3

N.T.S.

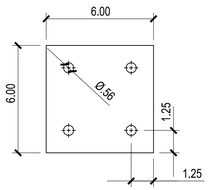


TYPICAL STAIR ELEVATION 4

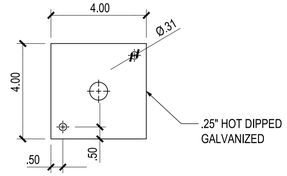
N.T.S.



COLUMN



COLUMN MOUNTING PLATE



THREADED ADJUSTMENT FOOT

Welcome Ramp Systems, Inc.
Component Aluminum Ramp System for Safe, User-Friendly Building Access.
www.welcomerampsystems.com

AHBL
TACOMA · SEATTLE · SPOKANE · TRI-CITIES
2215 North 30th Street, Suite 300, Tacoma, WA 98403
253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

Project Title:

CENTERIS PUYALLUP ACCESS PLANS DECK, RAMP & STAIRS

Client:

WELCOME RAMP SYSTEMS INC.

3902 B St NW Ste B, Auburn, WA 98001

Project No.

2241015.20

Issue Set & Date:

PERMIT SUBMITTAL

3.03.2025

ANDREW DEAN McCAMMANT — STATE OF WASHINGTON — 58722 — REGISTERED PROFESSIONAL ENGINEER

NOTICE:
ALTERATION OF THIS DOCUMENT SHALL INVALIDATE THE PROFESSIONAL SEAL AND SIGNATURE. PUBLICATION OF THIS DOCUMENT DOES NOT DEROGATE FROM RESERVED OWNERSHIP RIGHTS IN IT. THIS DOCUMENT IS FOR USE ONLY FOR THE PROJECT IDENTIFIED IN THE TITLE BLOCK AND IS NOT TO BE USED FOR REPAIR, REMODEL OR ADDITION TO THAT PROJECT OR FOR ANY OTHER PROJECT.

3 ⚠

2 ⚠

1 ⚠

1 ⚠ PLAN REVIEW RESPONSE 4/17/2025

Revisions:

Sheet Title:

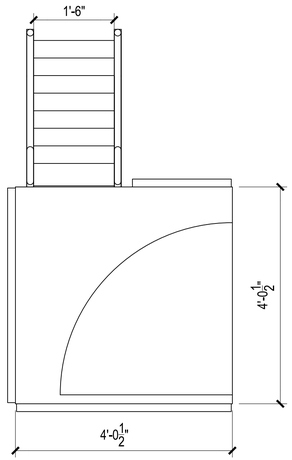
STANDARD DETAILS

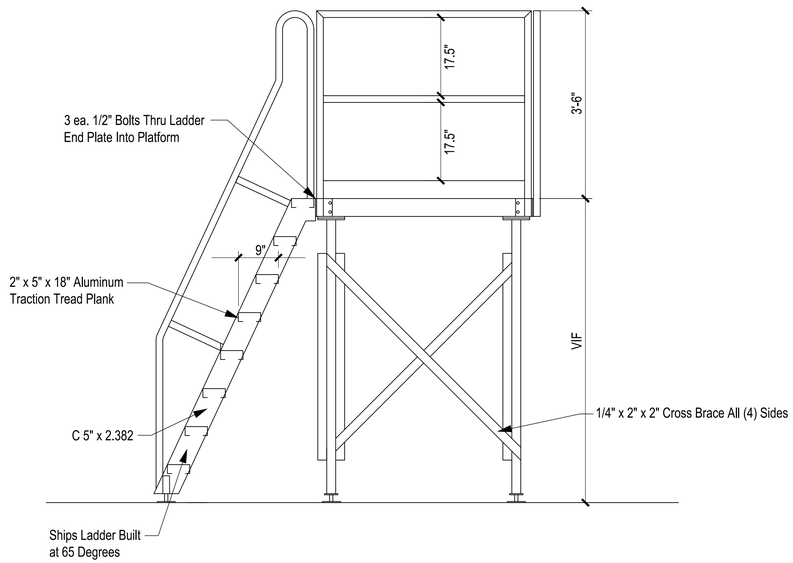
Designed by:	Drawn by:	Checked by:
DAR	KJK	ADM

Sheet No.

WR1.4

4 of 7 Sheets





Code Compliance

1. Stair Rise = 12" Max
2. Design Loading:

2.1. Platform 100 PSF Min.
2.2. Stair Tread 300 LBS./Tread min.
2.3. Railing 50 PLF/200 LBS. CONC.
2.4. Lateral Load 600# Pedestrian Dynamic
2.5. Wind Load 104 MPH, EXP B, Kzt=1.0
2.6. Seismic Load Sds= 1.006, Seismic CAT. 'D'

3. Graspable Continuous Round Handrail At 36" Off Stair Nosing. Install Both Sides Of Stairs.

4. Platforms To Have 4" Toe Kick.

5. Footing Information
Pre Manufactured ABS Pads Under All Adjustable Legs On Asphalt Or Soils

Material Specifications

Planking

- Platform: All Planking Shall Be .125" 6" W x 1-1/2" Deep AL
- Ships Ladders: All Planking Shall Be .125" 5" W x 2" Deep AL

Legs

- Leveling Feet Assumed To Be Placed On Suitable Firm Bearing Ground.
- Leg Material Shall Be 2" sq. x .125" AL. Tubing.
- Leg Mounting Plates Shall Be .375" x 6" SQ AL PLate
- Adjustable Bolt- 3/8" x 2-1/4" Grade 5 Cap Screw W/Nylon Lock Nut, Zinc Plated

Aluminum

- The 1-1/2" AL. Round Handrail Shall Be 6063 T-5 With A Yield stress Of 16 KSI.
- All Other Aluminum Parts Shall Be 6061 Aluminum With A Yield Stress Of 35 KSI.

Hand Rails

- Stairs: Use 1-1/2" Sq. x .156" Thick Walled Tubing For Posts And Horizontal Rails Except The Top 1-1/2" Round Graspable Handrail.
- Platform: Use 1-1/2" Sq. x .156" Thick Walled Tubing For Posts And All Horizontal Rails.

Welding

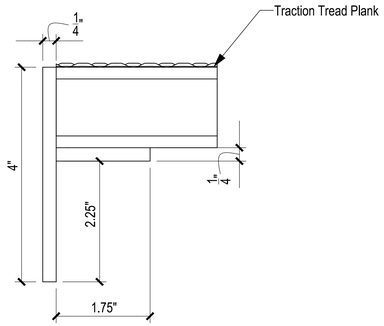
- All References To Welding On Plan Set Refer To In-Plant Fabrication. No On Site Welding Is Required.
- Fabrication Plant Welding By Welders In Accordance With ANSI/AWS D1.2 Code.
- Weld Sizes Are To Be Equal To Or Larger Than The Element Being Welded.
- Welding Is All Around Unless Otherwise Noted. Care Is Taken To Avoid Excess Warping Of Welded Elements.
- Fabricator To Certify Assembled Parts Are Per Drawings.

Bolts

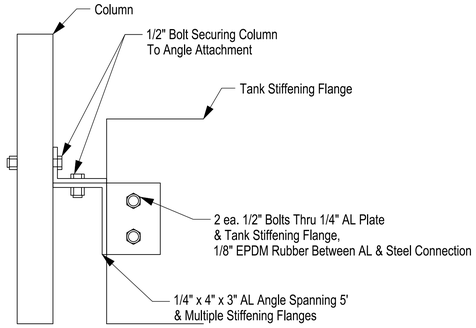
- All Bolts Shall Be Grade 5 Zinc Plated, Unless Otherwise Specified. Provide Locking Washers Under All Nuts.
- High Strength Bolts Are Designed At less Than 50% Capacity For Additional Factor Of Safety And Do Not Require Special Inspection.

Tech Screws

- Zinc Plated # 12 x 1-1/4" Pan Head



PLATFORM SUPPORT MEMBER



ATTACHMENT

AHBL
TACOMA · SEATTLE · SPOKANE · TRI-CITIES
2215 North 30th Street, Suite 300, Tacoma, WA 98403
253.383.2422 TEL 253.383.2572 FAX www.ahbl.com WEB

Project Title:

CENTERIS PUYALLUP ACCESS PLANS DECK, RAMP & STAIRS

Client:

WELCOME RAMP SYSTEMS INC.

3902 B St NW Ste B, Auburn, WA 98001

Project No.

2241015.20

Issue Set & Date:

PERMIT RESUBMITTAL

2.25.2025

ANDREW DEAN McCAMMANT — STATE OF WASHINGTON — 38722 — STRUCTURAL — PROFESSIONAL ENGINEER

NOTICE:
ALTERATION OF THIS DOCUMENT SHALL INVALIDATE THE PROFESSIONAL SEAL AND SIGNATURE BY ALTERATION OF THIS DOCUMENT DOES NOT SEPARATE FROM RESERVED OWNERSHIP RIGHTS IN IT. THIS DOCUMENT IS FOR USE ONLY FOR THE PROJECT IDENTIFIED IN THE TITLE BLOCK AND IS NOT TO BE USED FOR REPAIR, REMODEL OR ADDITION TO THAT PROJECT OR FOR ANY OTHER PROJECT.

Revisions:

Sheet Title:

LANDING PLANS AND LADDER DETAILS

Designed by: DAR | Drawn by: KJK | Checked by: ADM

Sheet No.

WR1.5

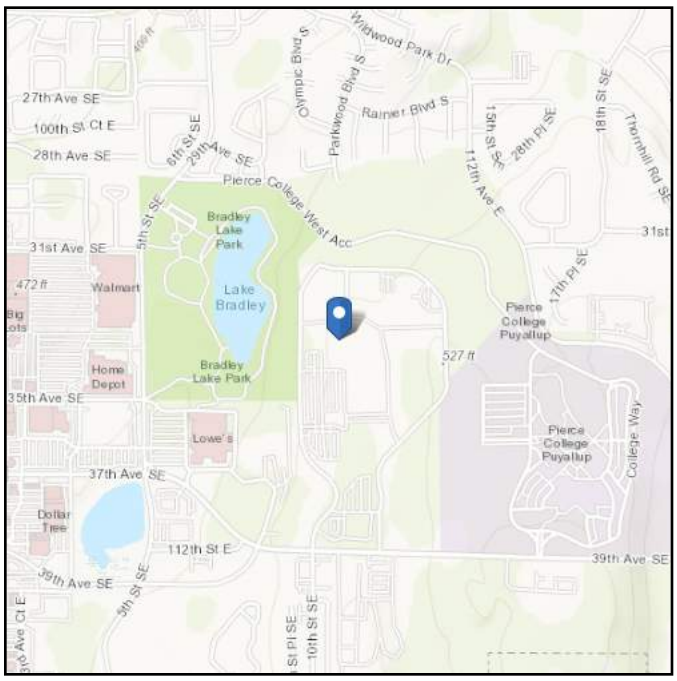
5 of 7 Sheets

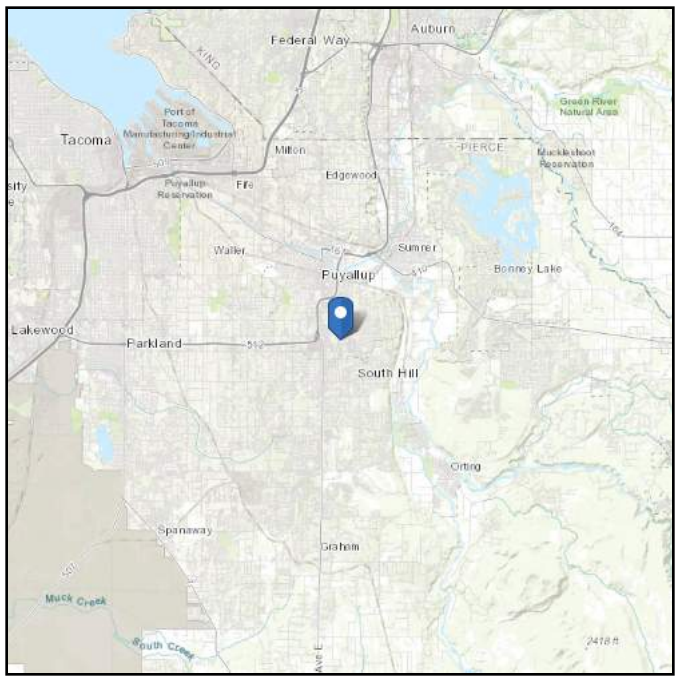
DESIGN CRITERIA

ASCE Hazards Report

Address:
1019 39th Ave SE
Puyallup, Washington
98374

Standard:	ASCE/SEI 7-16	**Latitude:**	47.159875
Risk Category:	III	**Longitude:**	-122.280772
Soil Class:	D - Default (see Section 11.4.3)	**Elevation:**	478.38217596439716 ft (NAVD 88)





Wind

Results:

Wind Speed	104 Vmph
10-year MRI	67 Vmph
25-year MRI	73 Vmph
50-year MRI	78 Vmph
100-year MRI	83 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1C and Figs. CC.2-1–CC.2-4, and Section 26.5.2

Date Accessed: Tue Dec 10 2024

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 3% probability of exceedance in 50 years (annual exceedance probability = 0.000588, MRI = 1,700 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

Seismic

Site Soil Class: D - Default (see Section 11.4.3)

Results:

S_S :	1.258	S_{D1} :	N/A
S_1 :	0.434	T_L :	6
F_a :	1.2	PGA :	0.5
F_v :	N/A	PGA_M :	0.6
S_{MS} :	1.509	F_{PGA} :	1.2
S_{M1} :	N/A	I_e :	1.25
S_{DS} :	1.006	C_v :	1.352

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

Data Accessed: Tue Dec 10 2024

Date Source: USGS Seismic Design Maps

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE Hazard Tool.

AHBL
2215 North 30th St
Tacoma, WA
253.383.2422

JOB TITLE	Centeris Access Platforms		
JOB NO.	2241015.20	**SHEET NO.**	
CALCULATED BY		**DATE**	
CHECKED BY	ADM	**DATE**	12/23/24

www.struware.com

Code Search

Code: International Building Code 2021

Occupancy:

Occupancy Group = B Business

Risk Category & Importance Factors:

Risk Category =	III
Wind Factor =	1.00
Importance Factor	1.10
Seismic Importance factor =	1.25

Type of Construction:

Fire Rating:

Roof =	0.0 hr
Floor =	0.0 hr

Building Geometry:

Roof angle (θ)	0.25 / 12	1.2 deg
Building length	40.0 ft	
Least width	12.0 ft	
Mean Roof Ht (h)	20.0 ft	
Parapet ht above grd	22.0 ft	
Minimum parapet ht	2.0 ft	
hb for Elevated bldg	0.0 ft	

Live Loads:

Roof

0 to 200 sf:	20 psf
200 to 600 sf:	24 - 0.02Area, but not less than 12 psf
over 600 sf:	12 psf

Floor:

Typical Floor	100 psf
Partitions	N/A

AHBL
2215 North 30th St
Tacoma, WA
253.383.2422

JOB TITLE	Centeris Access Platforms		
JOB NO.	2241015.20	**SHEET NO.**	
CALCULATED BY		**DATE**	
CHECKED BY	ADM	**DATE**	12/23/24

Wind Loads :

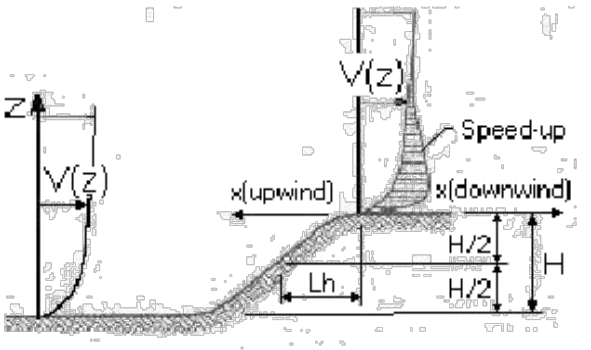
ASCE 7- 16

Ultimate Wind Speed	104 mph
Nominal Wind Speed	80.6 mph
Risk Category	III
Exposure Category	B
Enclosure Classif.	Enclosed Building
Internal pressure	+/-0.18
Bldg Directionality (Kd)	0.85
Kh MWFRS<=60	0.700
Kh all other	0.624
Type of roof	Gable

Topographic Factor (Kzt)

Topography		2D Escarpment
Hill Height	(H)	80.0 ft
Half Hill Length (Lh)		500.0 ft
Actual H/Lh	=	0.16
Use H/Lh	=	0.00
Modified Lh	=	500.0 ft
From top of crest: x =		50.0 ft
Bldg up/down wind?		downwind

H/Lh<0.2
∴ Kzt=1.0

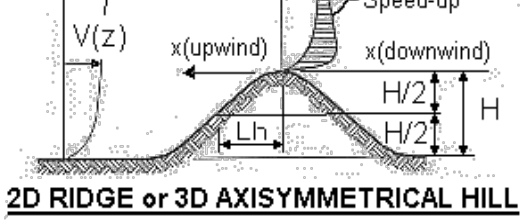


ESCARPMENT

H/Lh=	0.00	K_1 =	0.000
x/Lh =	0.10	K_2 =	0.975
z/Lh =	0.04	K_3 =	0.905

At Mean Roof Ht:

$Kzt = (1+K_1K_2K_3)^2$ = 1.00



2D RIDGE or 3D AXISYMMETRICAL HILL

AHBL
2215 North 30th St
Tacoma, WA
253.383.2422

JOB TITLE	Centeris Access Platforms		
JOB NO.	2241015.20	**SHEET NO.**	
CALCULATED BY		**DATE**	
CHECKED BY	ADM	**DATE**	12/23/24

Wind Loads - Other Structures: ASCE 7- 16 Ultimate Wind Pressures

Wind Factor =	1.00			
Gust Effect Factor (G) =	0.85	Ultimate Wind Speed =	104	mph
Kzt =	1.00	Exposure =	B	

A. Open Signs & Single-Plane Open Frames (openings 30% or more of gross area)

Height to centroid of Af (z)	7.0 ft			Kz =	0.575	
				Base pressure (qz) =	13.5	psf
Width (zero if round)	1.0 ft					
Diameter (zero if rect)	0.0 ft			F = qz G Cf Af =	**18.4**	**Af**
Percent of open area		I =	0.65	Solid Area: A_f =	10.0	sf
to gross area	35.0%	C_f =	1.6	F =	184	lbs
Directionality (Kd)	0.85					

Project CENTERS | Project No. 2241015.20 | ☐ Page ____ of ____
Subject ____ | Phone ____ | ☒ Calculations
With/To ____ | Fax # ____ | ☐ Fax
Address ____ | # Faxed Pages ____ | ☐ Memorandum
Date 12/26/24 | By ADM | ☐ Meeting Minutes
☐ Telephone Memo

AHBL

Civil Engineers
Structural Engineers
Landscape Architects
Community Planners
Land Surveyors

SEISMIC DESIGN ASCE 7-16 SECTION 13.3

$$F_p = \frac{0.4\, a_p\, S_{DS}\, W_p}{(R_p / I_p)} \left(1 + 2\, z/h\right)$$

GIVEN
$S_{DS} = 1.006$
$R_p = 2\,1/2$
$a_p = 1.0$
$I_p = 1.5$
$z/h = 1.0$

$$F_p = \frac{0.4\,(1.0)(1.006)\,W_p\,(1+2(1))}{(2\,1/2 / 1.5)}$$

$= (0.4024 / 1.67)\, W_p$

$= 0.24\, W_p$

FOR EGRESS STAIR/RAMP FASTENERS & ATTACHMENT

$R_p = 2\,1/2$
$a_p = 2\,1/2$

$\therefore \quad F_p = (1.006 / 1.67)\, W_p$

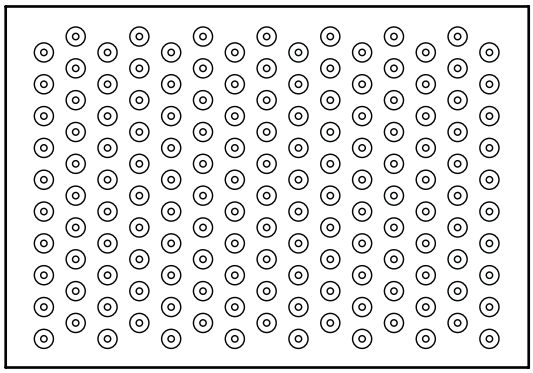
$= 0.60\, W_p$

If this does not meet with your understanding, please contact us in writing within seven days. THANK YOU.

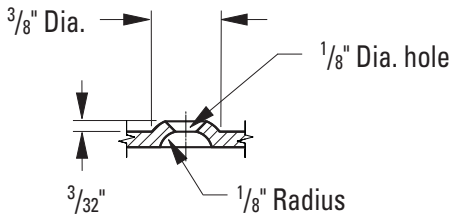
TREAD AND PLANK PROPERTIES

GRATING PACIFIC

TRACTION TREAD™ PLANK GRATING SIZES & OPTIONS

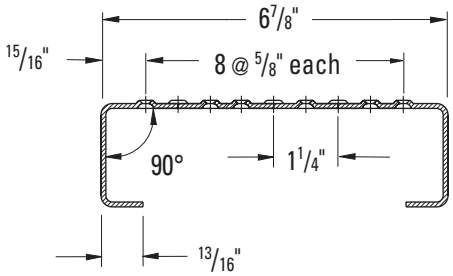


Standard Pattern



Button Detail

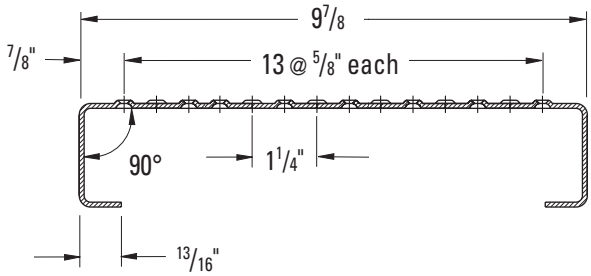
7" Nominal Width



Part No.	Width	Channel Depth	Gauge	Weight per LF
13 Ga. Pre-Galvanized Steel*				
TT-71513 GL	7"	1-1/2"	13	3.4
TT-72013 GL	7"	2"	13	3.7
TT-73013 GL	7"	3"	13	4.1
11 Ga. Pre-Galvanized Steel*				
TT-71511 GL	7"	1-1/2"	11	4.7
TT-72011 GL	7"	2"	11	5.2
TT-73011 GL	7"	3"	11	6.1
.125" 5052 Aluminum				
TT-715125 AL	7"	1-1/2"	.125"	1.6
TT-720125 AL	7"	2"	.125"	1.8

* To indicate HRPO carbon steel, add the suffix "-B" to the above stated part numbers.

10" Nominal Width



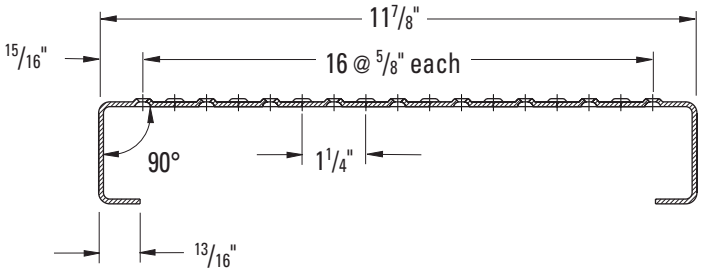
Part No.	Width	Channel Depth	Gauge	Weight per LF
13 Ga. Pre-Galvanized Steel*				
TT-101513 GL	10"	1-1/2"	13	4.3
TT-102013 GL	10"	2"	13	4.6
TT-103013 GL	10"	3"	13	5.3
11 Ga. Pre-Galvanized Steel*				
TT-101511 GL	10"	1-1/2"	11	6.0
TT-102011 GL	10"	2"	11	6.4
TT-103011 GL	10"	3"	11	7.5
.125" 5052 Aluminum				
TT-1015125 AL	10"	1-1/2"	.125"	2.1
TT-1020125 AL	10"	2"	.125"	2.2

* To indicate HRPO carbon steel, add the suffix "-B" to the above stated part numbers.

GRATING PACIFIC

TRACTION TREAD™ PLANK GRATING SIZES & OPTIONS

12" Nominal Width



Part No.	Width	Channel Depth	Gauge	Weight per LF
13 Ga. Pre-Galvanized Steel*				
TT-121513 GL	12"	1-1/2"	13	5
TT-122013 GL	12"	2"	13	5.3
TT-123013 GL	12"	3"	13	5.9
11 Ga. Pre-Galvanized Steel*				
TT-121511 GL	12"	1-1/2"	11	6.9
TT-122011 GL	12"	2"	11	7.3
TT-123011 GL	12"	3"	11	8.2
.125" 5052 Aluminum				
TT-1215125 AL	12"	1-1/2"	.125"	2.4
TT-1220125 AL	12"	2"	.125"	2.5

* To indicate HRPO carbon steel, add the suffix "-B" to the above stated part numbers.

Stock plank lengths available in 10' and 12'
Custom lengths available upon special order.

ALUMINUM TREAD OPTION CALCULATIONS

Project ALUMINUM TREADS | Project No. 2240502.20 | ☐ Page ____ of ____

Subject ____ | Phone ____ | ☐ Calculations

With/To ____ | Fax # ____ | ☐ Fax

Address ____ | # Faxed Pages ____ | ☐ Memorandum

Date ____ | By ____ | ☐ Meeting Minutes | ☐ Telephone Memo

AHBL

Civil Engineers

Structural Engineers

Landscape Architects

Community Planners

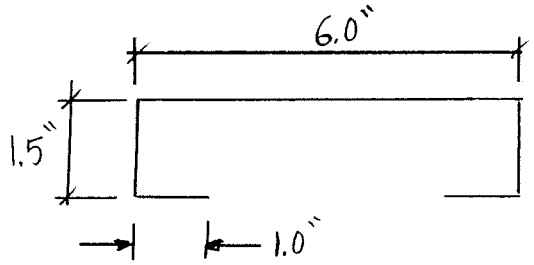
Land Surveyors

MATERIAL: 0.125" 5052 H32 AL

E: 10,100 ksi, F_{ty} = 23 ksi, F_{cy} = 20.7 ksi, F_{tu} = 31 ksi

LOADING: 100psf or 300 lb

DESIGN 1 – 1.5" × 6" × 48" TREADS



SECTION PROPERTIES (ENERCALC)

$Z_x = 0.5894\ in^3$

$S_t = 0.4376\ in^3$

$S_c = 0.8907\ in^3$

LOADING (A): 100PSF

$$V = \frac{wl}{2} = \frac{(100PSF \times 0.5ft)(4ft)}{2} = 100\ lb$$

$$M = \frac{wl^2}{8} = \frac{(50plf)(4ft)^2}{8} = 100\ lb\text{-}ft \Rightarrow 1200\ lb\text{-}in$$

LOADING (B): 300 lb @ MIDSPAN

$$V = \frac{P}{2} = \frac{300\ lb}{2} = 150\ lb \leftarrow$$

$$M = \frac{PL}{4} = \frac{300lb\,(4ft)}{4} = 300\ lb\text{-}ft \Rightarrow 3600\ lb\text{-}in \leftarrow$$

If this does not meet with your understanding, please contact us in writing within seven days. THANK YOU.

Project ALUMINUM TREADS | Project No. 2240502.20 | ☐ Page ____ of ____
Subject | Phone | ☐ Calculations
With/To | Fax # | ☐ Fax
Address | # Faxed Pages | ☐ Memorandum
Date | By | ☐ Meeting Minutes
☐ Telephone Memo

AHBL

Civil Engineers
Structural Engineers
Landscape Architects
Community Planners
Land Surveyors

FLEXURAL DESIGN

CHAPTER F - ALUMINUM DESIGN MANUAL

- YIELDING CHECK:

$$M_{np} = \text{LESSER OF} \begin{cases} Z_x F_{cy} = 0.5894\,in^3\,(20.7\,ksi) = 12.2\,k\text{-}in & \text{CONTROLS} \\ 1.5\,S_t\,F_{ty} = 1.5(0.4376\,in^3)(23\,ksi) = 15.1\,k\text{-}in \\ 1.5\,S_c\,F_{cy} = 1.5(0.8907\,in^3)(20.7\,ksi) = 27.7\,k\text{-}in \end{cases}$$

$$\frac{M_{np}}{\Omega} = \frac{12.2\,k\text{-}in}{1.65} = 7.39\,k\text{-}in > 3.6\,k\text{-}in$$

OK

- RUPTURE CHECK:

$$\frac{M_{nu}}{\Omega} = \frac{Z_x F_{tu}}{K_t\,(1.95)} = \frac{0.5894\,in^3\,(31\,ksi)}{(1.0)\;1.95} = 9.37\,k\text{-}in > 3.6\,k\text{-}in$$

OK

- LOCAL BUCKLING CHECK:

$$\frac{M_{nlb}}{\Omega} = \frac{F_b S_c}{\Omega} \qquad \frac{b}{t} = \frac{(6\,in - 2\times 0.125\,in)}{0.125\,in} = 46$$

$= 17.64\,ksi\,(0.8907\,in^3)$ TABLE 2-9 => FLAT ELEMENTS SUPPORTED ON BOTH EDGES

$\frac{M_{nlb}}{\Omega} = 15.7\,k\text{-}in > 3.6\,k\text{-}in$

OK

$\lambda_1 = 35.4 \quad \lambda_2 = 103$

$\therefore \lambda_1 < b/t < \lambda_2$

$\therefore$ INELASTIC BUCKLING $\Rightarrow \frac{F_b}{\Omega} = 22.7 - 0.110\frac{b}{t}$

$= 17.64\,ksi$

If this does not meet with your understanding, please contact us in writing within seven days. THANK YOU.

Project ALUMINUM TREADS | Project No. 2240502.20 | ☐ Page ____ of ____
Subject ____ | Phone ____ | ☐ Calculations
With/To ____ | Fax # ____ | ☐ Fax
Address ____ | # Faxed Pages ____ | ☐ Memorandum
Date ____ | By ____ | ☐ Meeting Minutes
☐ Telephone Memo

AHBL

Civil Engineers
Structural Engineers
Landscape Architects
Community Planners
Land Surveyors

SHEAR DESIGN

CHAPTER G - ALUMINUM DESIGN MANUAL

$b/t = \frac{1.25in}{0.125in} = 10$ TABLE 2-9 $\Rightarrow \lambda_1 = 41.8 \quad \therefore b/t < \lambda_1$

$\frac{F_v}{\Omega} = 8.4 \text{ ksi}$

$\frac{V_n}{\Omega} = \frac{F_v}{\Omega} A_v K_t = 8.4 \text{ ksi} (2 \times 0.125in \times 1.25in)$

$= 2.63 \text{ kips} > 0.150 \text{ kips}$ OK

DEFLECTION CHECK

CHAPTER L - ALUMINUM DESIGN MANUAL

- EFFECTIVE WIDTH, $b_e \Rightarrow$ If $f_a \leq F_e$, $b_e = b$

If $f_a > F_e$, $b_e = b\sqrt{F_e/f_a}$

$F_e = \frac{\pi^2 E}{(1.6\, b/t)^2} = \frac{\pi^2 (10{,}100 \text{ ksi})}{(1.6 \times 46)^2} = 18.4 \text{ ksi}$

f_a = MAX. COMPRESSIVE STRESS = $F_b = 17.64 \text{ ksi} \times 1.65 = 29.1 \text{ ksi}$

$\therefore b_e = 5.75in \sqrt{\frac{18.4}{29.1}} = 4.57in$

UPDATED SECTION PROPERTIES $\Rightarrow$ $I_x = 0.4091 in^4$
$Z_x = 0.5815 in^3$

If this does not meet with your understanding, please contact us in writing within seven days. THANK YOU.

Project ALUMINUM TREADS | Project No. 2240502.20 | ☐ Page ____ of ____

Subject ____ | Phone ____ | ☐ Calculations

With/To ____ | Fax # ____ | ☐ Fax

Address ____ | # Faxed Pages ____ | ☐ Memorandum

Date ____ | By ____ | ☐ Meeting Minutes | ☐ Telephone Memo

AHBL

Civil Engineers

Structural Engineers

Landscape Architects

Community Planners

Land Surveyors

LOADING (A): 100 PSF

$$\Delta = \frac{5wl^4}{384EI} = \frac{5(0.05\,k/ft \div 12)(48in)^4}{384(10,100\,ksi)(0.4091in^4)} = 0.07in$$

LOADING (B): 300 lb

$$\Delta = \frac{Pl^3}{48EI} = \frac{0.30\,k(48in)^3}{48(10,100\,ksi)(0.4091in^4)} = 0.167in \leftarrow$$

$$\frac{l}{360} = \frac{48in}{360} = 0.133in \quad \underline{NG}$$

$$0.167in \Rightarrow \frac{l}{287}$$

* HSS 3×1½×⅛ STIFFENER READ

If this does not meet with your understanding, please contact us in writing within seven days. THANK YOU.

Project ALUMINUM TREADS | Project No. 2240502.20 | ☐ Page ____ of ____

Subject ____ | Phone ____ | ☐ Calculations

With/To ____ | Fax # ____ | ☐ Fax

Address ____ | # Faxed Pages ____ | ☐ Memorandum

Date ____ | By ____ | ☐ Meeting Minutes | ☐ Telephone Memo

AHBL

Civil Engineers

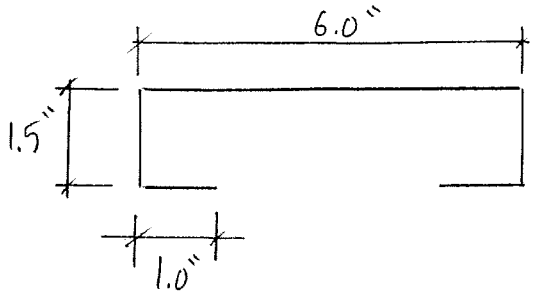
Structural Engineers

Landscape Architects

Community Planners

Land Surveyors

DESIGN 2 - 1.5" × 6" × 60" TREADS



SECTION PROPERTIES (SAME AS DSGN 1)

$Z_x = 0.5894\ in^3$

$S_t = 0.4376\ in^3$

$S_c = 0.8907\ in^3$

LOADING (A): 100 PSF

$$V = \frac{wl}{2} = \frac{50plf\ (5ft)}{2} = 125\ lb$$

$$M = \frac{wl^2}{8} = \frac{50plf\ (5ft)^2}{8} = 156\ lb\text{-}ft \Rightarrow 1875\ lb\text{-}in$$

LOADING (B): 300 lb @ MIDSPAN

$$V = \frac{P}{2} = 150\ lb \leftarrow$$

$$M = \frac{PL}{4} = \frac{300lb\ (5ft)}{4} = 375\ lb\text{-}ft \Rightarrow 4500\ lb\text{-}in \leftarrow$$

> FLEXURAL & SHEAR STRENGTHS SAME AS DESIGN (1)
OK BY INSPECTION

If this does not meet with your understanding, please contact us in writing within seven days. THANK YOU.

Project ALUMINUM TREADS | Project No. 2240502.20 | ☐ Page ____ of ____

Subject ____ | Phone ____ | ☐ Calculations

With/To ____ | Fax # ____ | ☐ Fax

Address ____ | # Faxed Pages ____ | ☐ Memorandum

Date ____ | By ____ | ☐ Meeting Minutes | ☐ Telephone Memo

AHBL

Civil Engineers

Structural Engineers

Landscape Architects

Community Planners

Land Surveyors

DEFLECTION CHECK

LOADING (A) : 100 PSF

$$\Delta = \frac{5wl^4}{384EI} = \frac{5(0.05\ k/ft \div 12)(60in)^4}{384(10{,}100\ ksi)(0.4091\ in^4)} = 0.17in$$

LOADING (B) : 300 lb

$$\Delta = \frac{Pl^3}{48EI} = \frac{0.30k\,(60in)^3}{48(10{,}100\ ksi)(0.4091\ in^4)} = 0.327in$$

$$\frac{l}{360} = \frac{60in}{360} = 0.167in \quad \underline{NG}$$

$$0.327in \Rightarrow \frac{l}{184}$$

* HSS 3x1½x⅛ STIFFENER REQ'D

If this does not meet with your understanding, please contact us in writing within seven days. THANK YOU.

Project ALUMINUM TREADS | Project No. 2240502.20 | ☐ Page ____ of ____

Subject ____ | Phone ____ | ☐ Calculations

With/To ____ | Fax # ____ | ☐ Fax

Address ____ | # Faxed Pages ____ | ☐ Memorandum

Date ____ | By ____ | ☐ Meeting Minutes | ☐ Telephone Memo

AHBL

Civil Engineers

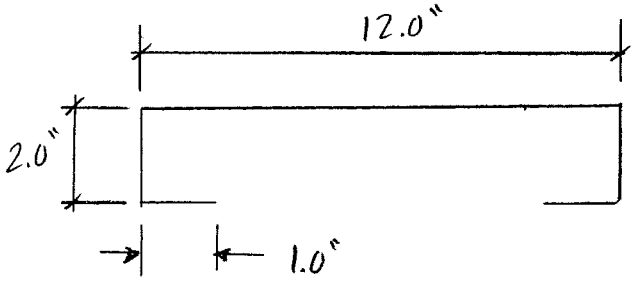
Structural Engineers

Landscape Architects

Community Planners

Land Surveyors

DESIGN 3 - 2" × 12" × 48" STEPS



SECTION PROPERTIES : (ENERCALC)

$Z_x = 0.9161\ in^3$

$S_t = 0.693\ in^3$

$S_c = 2.244\ in^3$

LOADING (A): 100 PSF

$$V = \frac{wl}{2} = \frac{(100psf \times 1ft)(4ft)}{2} = 200lb \leftarrow$$

$$M = \frac{wl^2}{8} = \frac{(100plf)(4ft)^2}{8} = 200\ lb\text{-}ft \Rightarrow 2400\ lb\text{-}in$$

LOADING (B): 300lb @ MIDSPAN

$$V = \frac{P}{2} = \frac{300lb}{2} = 150lb$$

$$M = \frac{PL}{4} = \frac{300lb\ (4ft)}{4} = 300lb\text{-}ft \Rightarrow 3600\ lb\text{-}in \leftarrow$$

If this does not meet with your understanding, please contact us in writing within seven days. THANK YOU.

Project ALUMINUM TREADS | Project No. 2240502.20 | ☐ Page ____ of ____

Subject ____ | Phone ____ | ☐ Calculations

With/To ____ | Fax # ____ | ☐ Fax

Address ____ | # Faxed Pages ____ | ☐ Memorandum

Date ____ | By ____ | ☐ Meeting Minutes | ☐ Telephone Memo

AHBL

Civil Engineers

Structural Engineers

Landscape Architects

Community Planners

Land Surveyors

SHEAR DESIGN

$\frac{b}{t} = \frac{1.75\,in}{0.125\,in} = 14$ TABLE 2-9 $\Rightarrow \lambda_1 = 41.8$ $\therefore b/t < \lambda_1$

$$\frac{F_v}{\Omega} = 8.4\,ksi$$

$$\frac{V_n}{\Omega} = \frac{F_v}{\Omega}\frac{A_v}{n_t} = 8.4\,ksi\,(2 \times 0.125in \times 1.75in)/1.0$$

$$= 3.675\,kips > 0.2\,kips \quad OK$$

DEFLECTION CHECK

$$F_e = \frac{\pi^2 E}{(1.6\,b/t)^2} = \frac{\pi^2 (10{,}100\,ksi)}{(1.6 \times 94)^2} = 4.4\,ksi$$

$$f_a = F_b = 12.36\,ksi \times 1.65 = 20.4\,ksi$$

$f_a > F_c \therefore b_e = b\sqrt{F_e/f_a}$

$= 11.75in\sqrt{4.4/20.4}$

$= 5.5\,in$

UPDATED SECTION PROPERTIES $\Rightarrow I_x = 0.843\,in^4$

$Z_x = 0.9074\,in^3$

If this does not meet with your understanding, please contact us in writing within seven days. THANK YOU.

Project ALUMINUM TREADS | Project No. 2240502.20 | ☐ Page ____ of ____

Subject ____ | Phone ____ | ☐ Calculations

With/To ____ | Fax # ____ | ☐ Fax

Address ____ | # Faxed Pages ____ | ☐ Memorandum

Date ____ | By ____ | ☐ Meeting Minutes | ☐ Telephone Memo

AHBL

Civil Engineers

Structural Engineers

Landscape Architects

Community Planners

Land Surveyors

LOADING (A): 100 PSF

$$\Delta = \frac{5wl^4}{384EI} = \frac{5(0.10\ k/ft \div 12)(48in)^4}{384(10,100\ ksi)(0.843\ in^4)} = 0.068\ in$$

LOADING (B): 300 lb

$$\Delta = \frac{Pl^3}{48EI} = \frac{0.30^k(48in)^3}{48(10,100\ ksi)(0.843\ in^4)} = 0.081\ in \leftarrow$$

$$\frac{l}{360} = \frac{48in}{360} = 0.133in > 0.081in \quad \underline{OK}$$

If this does not meet with your understanding, please contact us in writing within seven days. THANK YOU.

AHBL, Inc.
2215 North 30th Street, Suite 200
Tacoma, WA 98403
(253) 383-2422

Project Title: Welcome Ramp Aluminum Treads
Engineer: ADM
Project ID: 2241015.20
Project Descr: Optional Aluminum Tread System

Printed: 10 DEC 2024, 4:30PM

General Section Property Calculator

Project File: 2241015 Aluminum Treads.ec6

LIC# : KW-06014847, Build:20.24.12.02 AHBL, INC (c) ENERCALC, LLC 1982-2024

DESCRIPTION: 6" Aluminum Treads

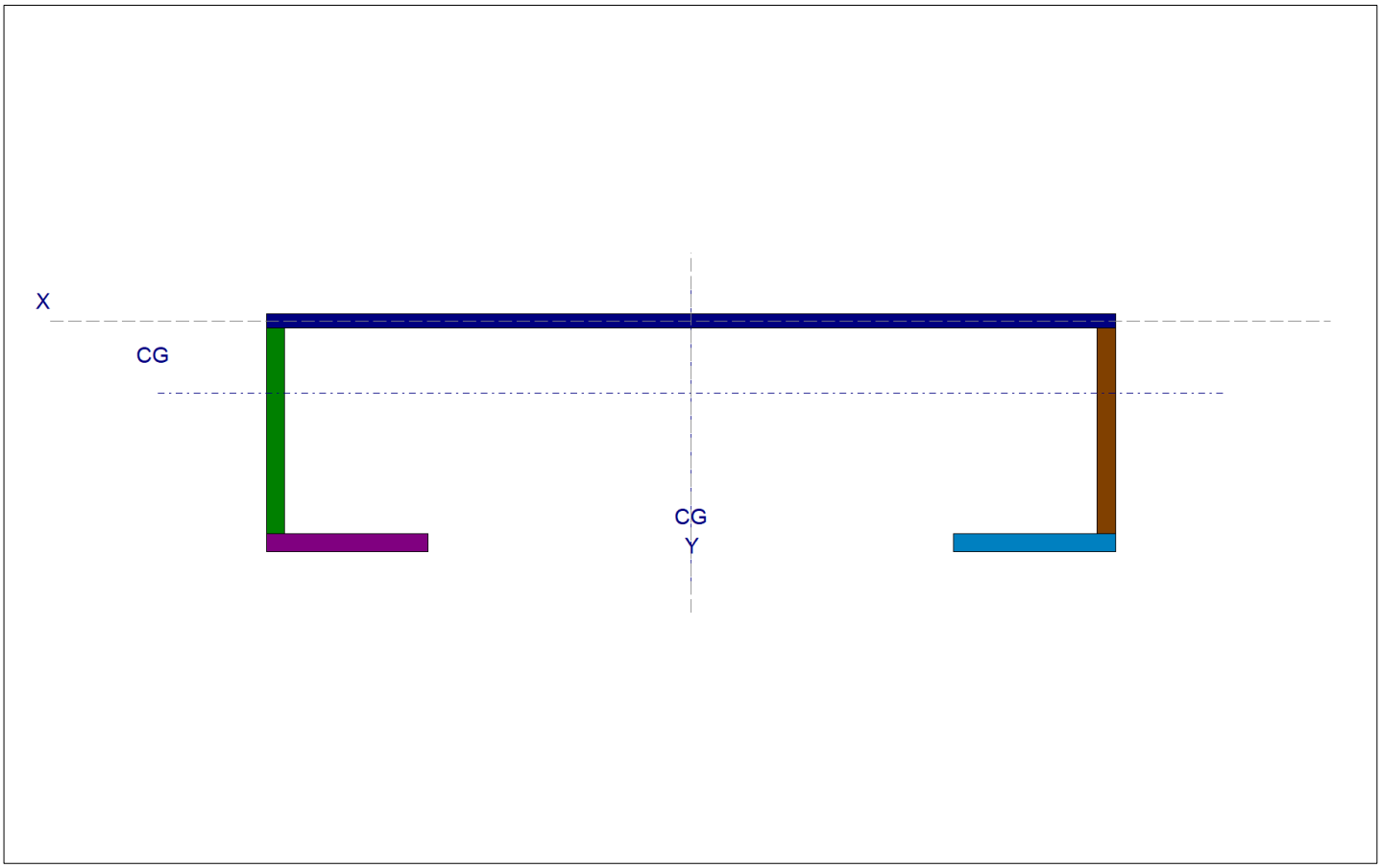
Final Section Properties

Total Area	:	1.223 in^2	Ixx	:	0.4070 in^4	Sxx : - Y	: 0.4151 in^3
			Iyy	:	4.776 in^4	Sxx : +Y	: 0.7835 in^3
Calculated final C.G. distance from Datum :						Syy : - X	: 1.809 in^3
X cg Dist.	:	0.0 in	Zxx	:	0.5642 in^3	Syy : +X	: 1.809 in^3
Y cg Dist.	:	-0.4569 in	Zyy	:	2.212 in^3		
Edge Distances from CG. :						r xx	: 0.5770 in
+X	:	2.641 in	+Y	:	0.5194 in	r yy	: 1.977 in
-X	:	-2.641 in	-Y	:	-0.9806 in		

Rotation of All Components @ A 0.00 deg CCW

Minumim Section Properties

Rotation Angle (CC	0.0	deg CCW	I: Moment of Inerti	0.4070 in^4
r: Radius of Gyratic	0.5770	in	S: Modulus	0.4151 in^3
			Z: Plastic Modulus	0.5642 in^3



Rectangular & Circular Shapes

Rectangular Shape : 1	Height =	0.125 in	Width =	5.280 in	Rotation =	0 deg CCW
	Area =	0.660 in^2	Xcg =	0.000 in		
			Ycg =	0.000 in		

AHBL, Inc.
2215 North 30th Street, Suite 200
Tacoma, WA 98403
(253) 383-2422

Project Title: Welcome Ramp Aluminum Treads
Engineer: ADM
Project ID: 2241015.20
Project Descr: Optional Aluminum Tread System

Printed: 10 DEC 2024, 4:30PM

General Section Property Calculator

Project File: 2241015 Aluminum Treads.ec6

LIC# : KW-06014847, Build:20.24.12.02 AHBL, INC (c) ENERCALC, LLC 1982-2024

DESCRIPTION: 6" Aluminum Treads

Rectangular Shape : 2	Height =	1.250 in	Width =	0.125 in	Rotation =	0 deg CCW	
	Area =	0.156 in^2	Xcg =	2.578 in			
			Ycg =	-0.688 in			
Rectangular Shape : 3	Height =	1.250 in	Width =	0.125 in	Rotation =	0 deg CCW	
	Area =	0.156 in^2	Xcg =	-2.578 in			
			Ycg =	-0.688 in			
Rectangular Shape : 4	Height =	0.125 in	Width =	1.000 in	Rotation =	0 deg CCW	
	Area =	0.125 in^2	Xcg =	-2.140 in			
			Ycg =	-1.375 in			
Rectangular Shape : 5	Height =	0.125 in	Width =	1.000 in	Rotation =	0 deg CCW	
	Area =	0.125 in^2	Xcg =	2.140 in			
			Ycg =	-1.375 in			

AHBL, Inc.
2215 North 30th Street, Suite 200
Tacoma, WA 98403
(253) 383-2422

Project Title: Welcome Ramp Aluminum Treads
Engineer: ADM
Project ID: 2241015.20
Project Descr: Optional Aluminum Tread System

Printed: 10 DEC 2024, 4:30PM

General Section Property Calculator

Project File: 2241015 Aluminum Treads.ec6

LIC# : KW-06014847, Build:20.24.12.02 AHBL, INC (c) ENERCALC, LLC 1982-2024

DESCRIPTION: 6" Aluminum Treads - Deflection

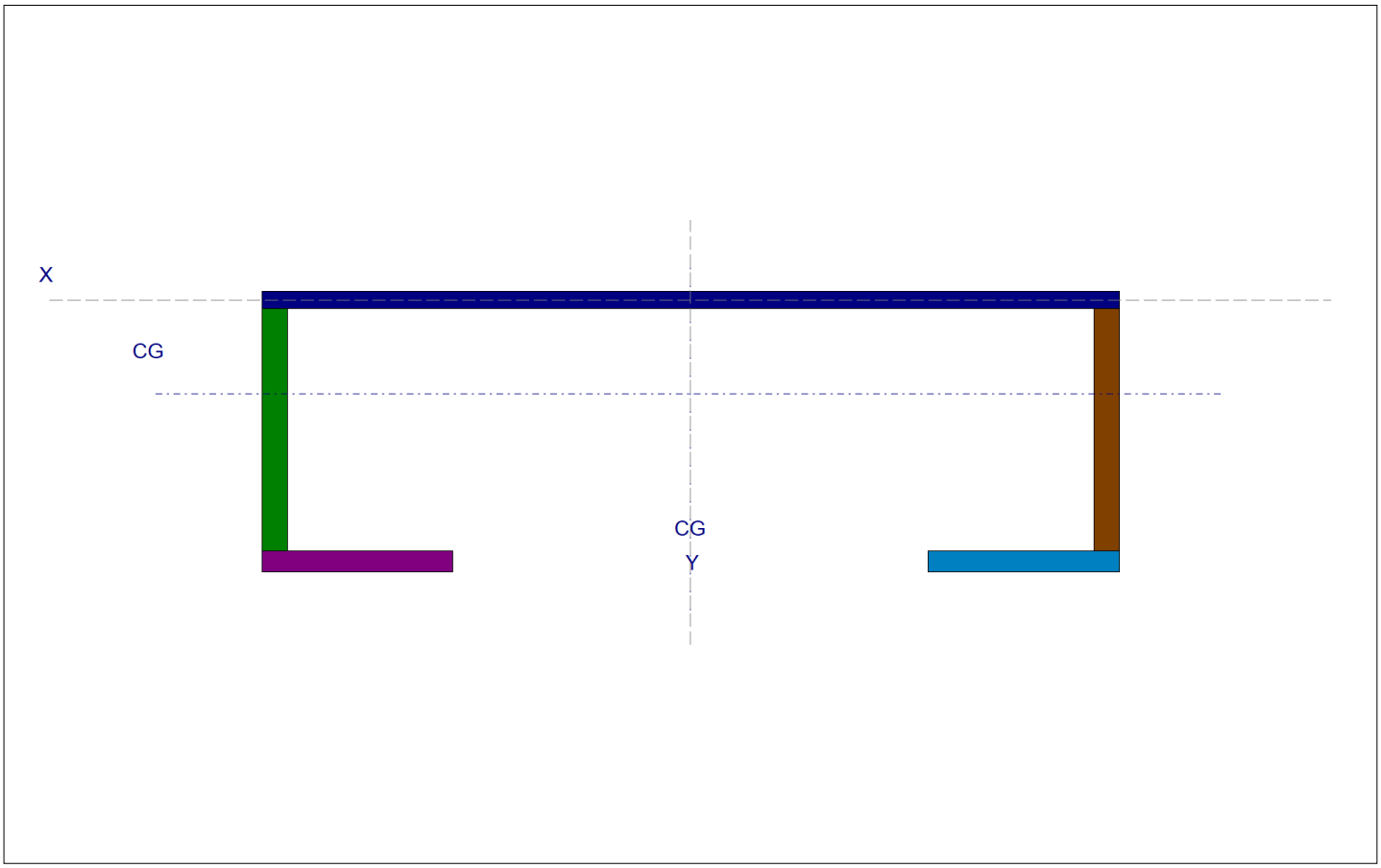
Final Section Properties

Total Area	:	1.125 in^2	Ixx	:	0.3847 in^4	Sxx : - Y	: 0.4089 in^3
			Iyy	:	3.232 in^4	Sxx : +Y	: 0.6882 in^3
Calculated final C.G. distance from Datum :						Syy : - X	: 1.436 in^3
X cg Dist.	:	0.0 in	Zxx	:	0.5586 in^3	Syy : +X	: 1.436 in^3
Y cg Dist.	:	-0.4965 in	Zyy	:	1.754 in^3		
Edge Distances from CG. :						r xx	: 0.5848 in
+X	:	2.251 in	+Y	:	0.5590 in	r yy	: 1.695 in
-X	:	-2.251 in	-Y	:	-0.9410 in		

Rotation of All Components @ A 0.00 deg CCW

Minumim Section Properties

Rotation Angle (CC	0.0 deg CCW	I: Moment of Inerti	0.3847 in^4
r: Radius of Gyratic	0.5848 in	S: Modulus	0.4089 in^3
		Z: Plastic Modulus	0.5586 in^3



Rectangular & Circular Shapes

Rectangular Shape : 1	Height =	0.125 in	Width =	4.500 in	Rotation =	0 deg CCW	
	Area =	0.563 in^2	Xcg =	0.000 in			
			Ycg =	0.000 in			

AHBL, Inc.
2215 North 30th Street, Suite 200
Tacoma, WA 98403
(253) 383-2422

Project Title: Welcome Ramp Aluminum Treads
Engineer: ADM
Project ID: 2241015.20
Project Descr: Optional Aluminum Tread System

Printed: 10 DEC 2024, 4:30PM

General Section Property Calculator

Project File: 2241015 Aluminum Treads.ec6

LIC# : KW-06014847, Build:20.24.12.02 AHBL, INC (c) ENERCALC, LLC 1982-2024

DESCRIPTION: 6" Aluminum Treads - Deflection

Rectangular Shape : 2	Height =	1.250	in	Width =	0.125	in	Rotation = 0 deg CCW
	Area =	0.156	in^2	Xcg =	2.188	in	
				Ycg =	-0.688	in	
Rectangular Shape : 3	Height =	1.250	in	Width =	0.125	in	Rotation = 0 deg CCW
	Area =	0.156	in^2	Xcg =	-2.188	in	
				Ycg =	-0.688	in	
Rectangular Shape : 4	Height =	0.125	in	Width =	1.000	in	Rotation = 0 deg CCW
	Area =	0.125	in^2	Xcg =	-1.750	in	
				Ycg =	-1.375	in	
Rectangular Shape : 5	Height =	0.125	in	Width =	1.000	in	Rotation = 0 deg CCW
	Area =	0.125	in^2	Xcg =	1.750	in	
				Ycg =	-1.375	in	

AHBL, Inc.
2215 North 30th Street, Suite 200
Tacoma, WA 98403
(253) 383-2422

Project Title: Welcome Ramp Aluminum Treads
Engineer: ADM
Project ID: 2241015.20
Project Descr: Optional Aluminum Tread System

Printed: 10 DEC 2024, 4:30PM

General Section Property Calculator

Project File: 2241015 Aluminum Treads.ec6

LIC# : KW-06014847, Build:20.24.12.02 AHBL, INC (c) ENERCALC, LLC 1982-2024

DESCRIPTION: 6" Aluminum Treads - Deflection (Built Up Section)

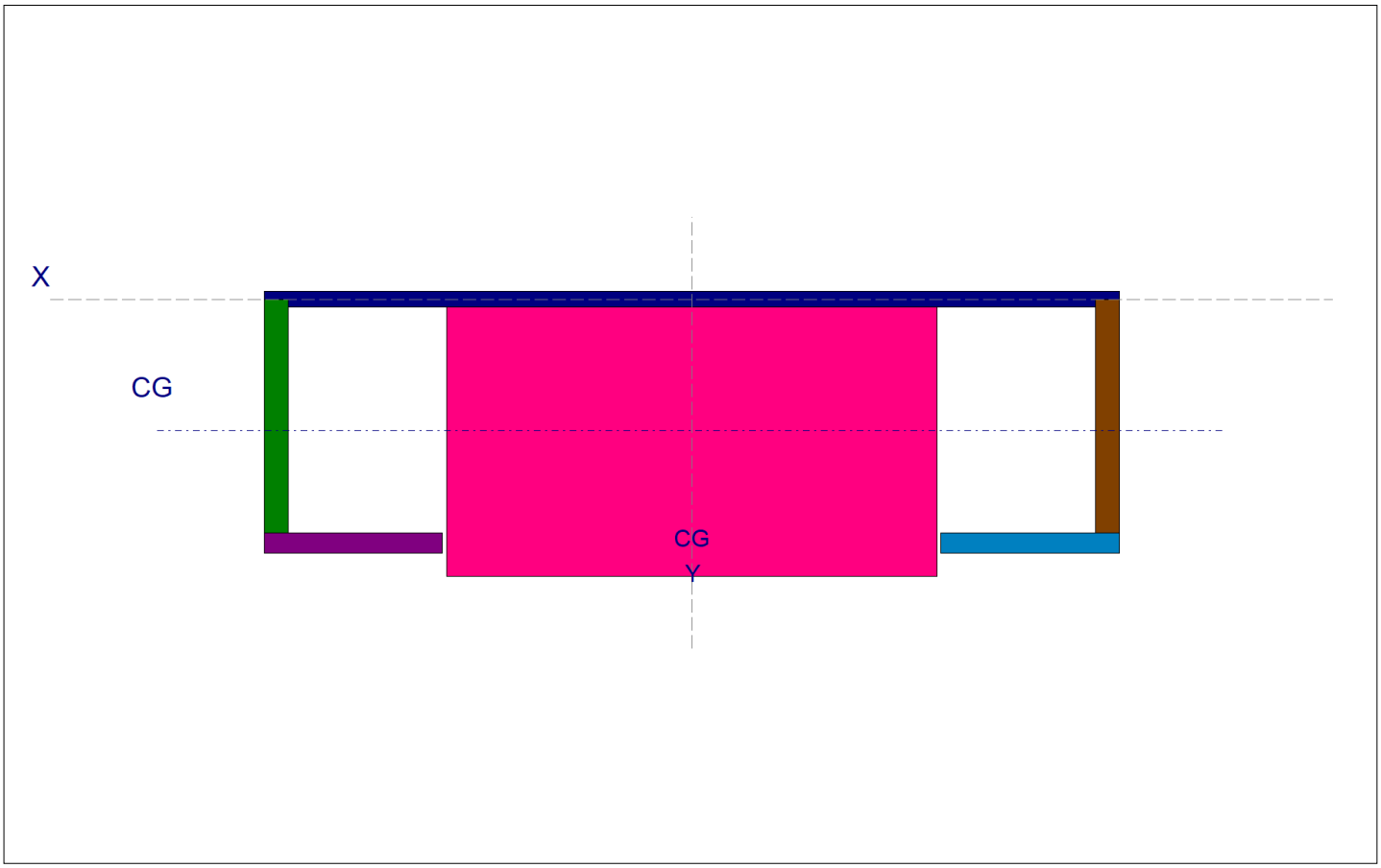
Final Section Properties

Total Area	:	5.396 in^2	Ixx	:	1.296 in^4	Sxx : - Y	: 1.576 in^3
			Iyy	:	6.739 in^4	Sxx : +Y	: 1.616 in^3
Calculated final C.G. distance from Datum :						Syy : - X	: 2.796 in^3
X cg Dist.	:	0.0 in	Zxx	:	2.313 in^3	Syy : +X	: 2.796 in^3
Y cg Dist.	:	-0.7399 in	Zyy	:	4.951 in^3		
Edge Distances from CG. :						r xx	: 0.4901 in
+X	:	2.411 in	+Y	:	0.8024 in	r yy	: 1.117 in
-X	:	-2.411 in	-Y	:	-0.8226 in		

Rotation of All Components @ A 0.00 deg CCW

Minumim Section Properties

Rotation Angle (CC	0.0 deg CCW	I: Moment of Inerti	1.296 in^4
r: Radius of Gyratic	0.4901 in	S: Modulus	1.576 in^3
		Z: Plastic Modulus	2.313 in^3



Rectangular & Circular Shapes

Rectangular Shape : 1	Height =	0.125 in	Width =	4.820 in	Rotation =	0 deg CCW
	Area =	0.603 in^2	Xcg =	0.000 in		
			Ycg =	0.000 in		

AHBL, Inc.
2215 North 30th Street, Suite 200
Tacoma, WA 98403
(253) 383-2422

Project Title: Welcome Ramp Aluminum Treads
Engineer: ADM
Project ID: 2241015.20
Project Descr: Optional Aluminum Tread System

Printed: 10 DEC 2024, 4:30PM

General Section Property Calculator

Project File: 2241015 Aluminum Treads.ec6

LIC# : KW-06014847, Build:20.24.12.02 AHBL, INC (c) ENERCALC, LLC 1982-2024

DESCRIPTION: 6" Aluminum Treads - Deflection (Built Up Section)

Rectangular Shape : 2	Height =	1.375 in	Width =	0.125 in	Rotation =	0 deg CCW	
	Area =	0.172 in^2	Xcg =	2.348 in			
			Ycg =	-0.688 in			
Rectangular Shape : 3	Height =	1.375 in	Width =	0.125 in	Rotation =	0 deg CCW	
	Area =	0.172 in^2	Xcg =	-2.348 in			
			Ycg =	-0.688 in			
Rectangular Shape : 4	Height =	0.125 in	Width =	1.000 in	Rotation =	0 deg CCW	
	Area =	0.125 in^2	Xcg =	-1.910 in			
			Ycg =	-1.375 in			
Rectangular Shape : 5	Height =	0.125 in	Width =	1.000 in	Rotation =	0 deg CCW	
	Area =	0.125 in^2	Xcg =	1.910 in			
			Ycg =	-1.375 in			
Rectangular Shape : 6	Height =	1.500 in	Width =	2.800 in	Rotation =	0 deg CCW	
	Area =	4.200 in^2	Xcg =	0.000 in			
			Ycg =	-0.813 in			

AHBL, Inc.
2215 North 30th Street, Suite 200
Tacoma, WA 98403
(253) 383-2422

Project Title: Welcome Ramp Aluminum Treads
Engineer: ADM
Project ID: 2241015.20
Project Descr: Optional Aluminum Tread System

Printed: 10 DEC 2024, 4:30PM

General Section Property Calculator

Project File: 2241015 Aluminum Treads.ec6

LIC# : KW-06014847, Build:20.24.12.02 AHBL, INC (c) ENERCALC, LLC 1982-2024

DESCRIPTION: 12" Aluminum Steps

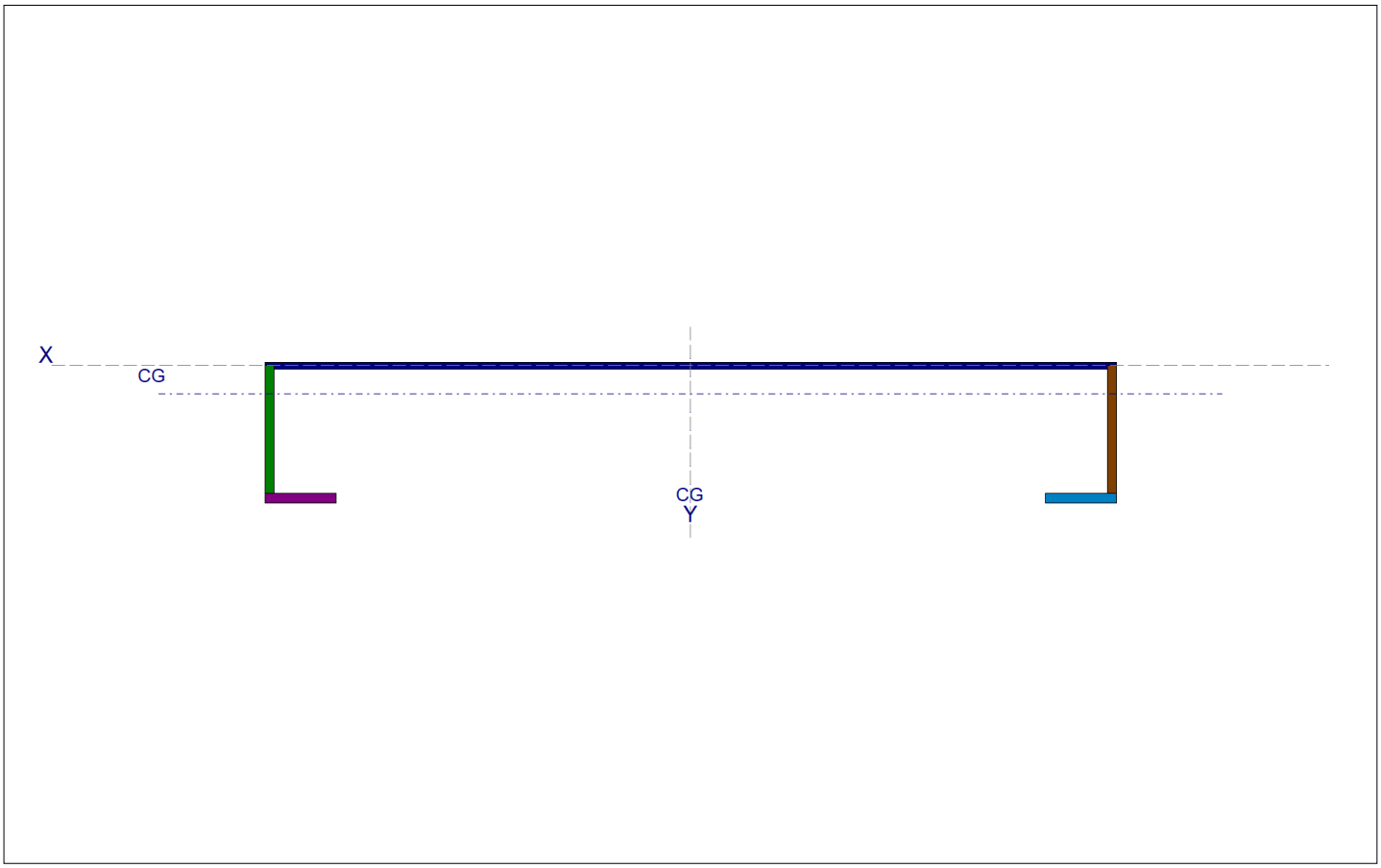
Final Section Properties

Total Area	:	2.219 in^2	Ixx	:	1.059 in^4	Sxx : - Y	: 0.6930 in^3
			Iyy	:	42.111 in^4	Sxx : +Y	: 2.244 in^3
Calculated final C.G. distance from Datum :						Syy : - X	: 7.018 in^3
X cg Dist.	:	0.0 in	Zxx	:	0.9448 in^3	Syy : +X	: 7.018 in^3
Y cg Dist.	:	-0.4094 in	Zyy	:	8.658 in^3		
Edge Distances from CG. :						r xx	: 0.6909 in
+X	:	6.001 in	+Y	:	0.4719 in	r yy	: 4.357 in
-X	:	-6.001 in	-Y	:	-1.528 in		

Rotation of All Components @ A 0.00 deg CCW

Minumim Section Properties

Rotation Angle (CC	0.0 deg CCW	I: Moment of Inerti	1.059 in^4
r: Radius of Gyratic	0.6909 in	S: Modulus	0.6930 in^3
		Z: Plastic Modulus	0.9448 in^3



Rectangular & Circular Shapes

Rectangular Shape : 1	Height =	0.125 in	Width =	12.000 in	Rotation =	0 deg CCW	
	Area =	1.500 in^2	Xcg =	0.000 in			
			Ycg =	0.000 in			

AHBL, Inc.
2215 North 30th Street, Suite 200
Tacoma, WA 98403
(253) 383-2422

Project Title: Welcome Ramp Aluminum Treads
Engineer: ADM
Project ID: 2241015.20
Project Descr: Optional Aluminum Tread System

Printed: 10 DEC 2024, 4:30PM

General Section Property Calculator

Project File: 2241015 Aluminum Treads.ec6

LIC# : KW-06014847, Build:20.24.12.02 AHBL, INC (c) ENERCALC, LLC 1982-2024

DESCRIPTION: 12" Aluminum Steps

Rectangular Shape : 2	Height =	1.875	in	Width =	0.125	in	Rotation = 0 deg CCW
	Area =	0.234	in^2	Xcg =	5.938	in	
				Ycg =	-0.938	in	
Rectangular Shape : 3	Height =	1.875	in	Width =	0.125	in	Rotation = 0 deg CCW
	Area =	0.234	in^2	Xcg =	-5.938	in	
				Ycg =	-0.938	in	
Rectangular Shape : 4	Height =	0.125	in	Width =	1.000	in	Rotation = 0 deg CCW
	Area =	0.125	in^2	Xcg =	-5.500	in	
				Ycg =	-1.875	in	
Rectangular Shape : 5	Height =	0.125	in	Width =	1.000	in	Rotation = 0 deg CCW
	Area =	0.125	in^2	Xcg =	5.500	in	
				Ycg =	-1.875	in	

AHBL, Inc.
2215 North 30th Street, Suite 200
Tacoma, WA 98403
(253) 383-2422

Project Title: Welcome Ramp Aluminum Treads
Engineer: ADM
Project ID: 2241015.20
Project Descr: Optional Aluminum Tread System

Printed: 10 DEC 2024, 4:30PM

General Section Property Calculator

Project File: 2241015 Aluminum Treads.ec6

LIC# : KW-06014847, Build:20.24.12.02 AHBL, INC (c) ENERCALC, LLC 1982-2024

DESCRIPTION: 12" Aluminum Steps - Deflection

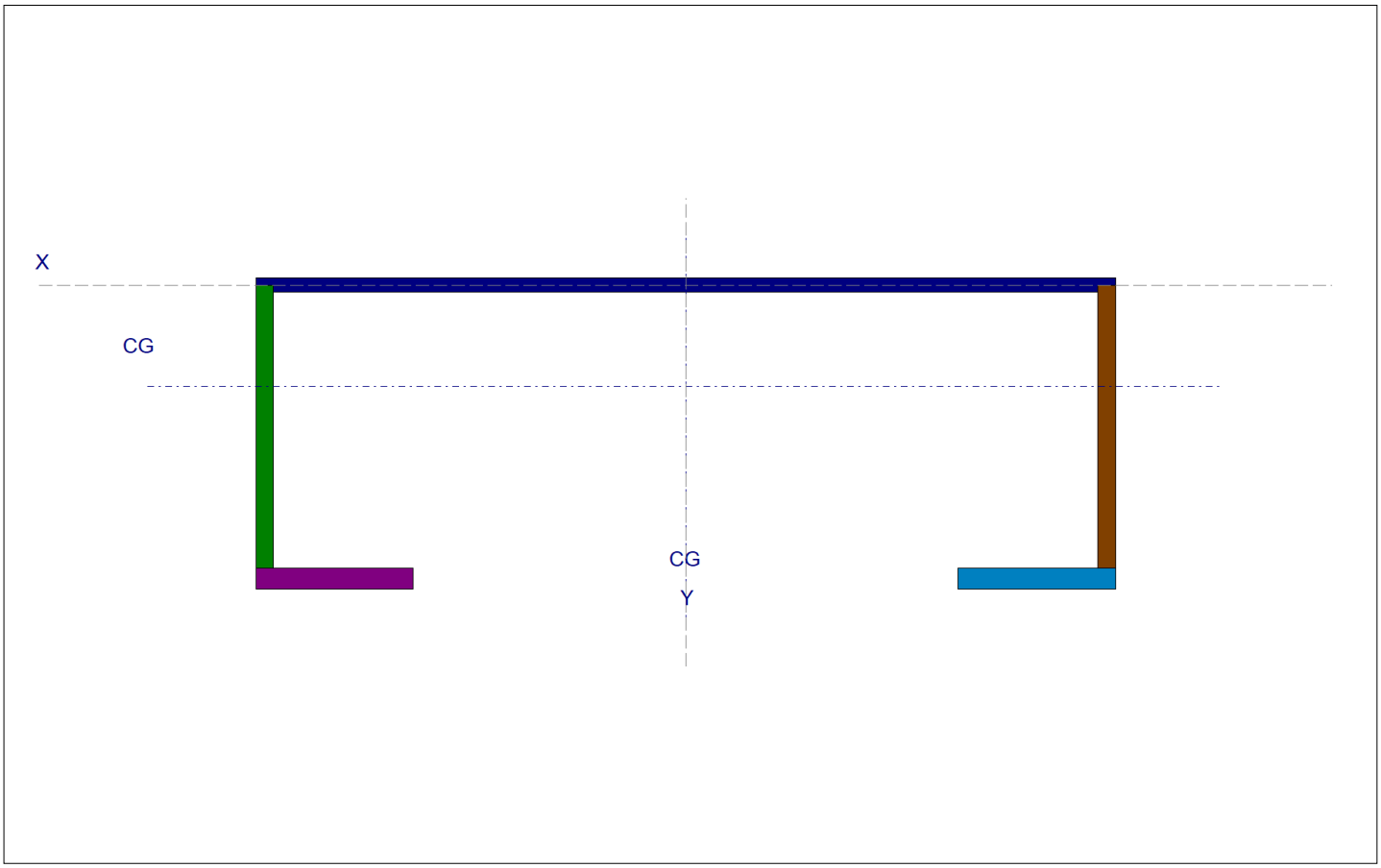
Final Section Properties

Total Area	:	1.406 in^2	Ixx	:	0.8430 in^4	Sxx : - Y	: 0.6527 in^3
			Iyy	:	6.407 in^4	Sxx : +Y	: 1.190 in^3
Calculated final C.G. distance from Datum :						Syy : - X	: 2.329 in^3
X cg Dist.	:	0.0 in	Zxx	:	0.9074 in^3	Syy : +X	: 2.329 in^3
Y cg Dist.	:	-0.6460 in	Zyy	:	2.768 in^3		
Edge Distances from CG. :						r xx	: 0.7743 in
+X	:	2.751 in	+Y	:	0.7085 in	r yy	: 2.134 in
-X	:	-2.751 in	-Y	:	-1.292 in		

Rotation of All Components @ A 0.00 deg CCW

Minumim Section Properties

Rotation Angle (CC	0.0 deg CCW	I: Moment of Inerti	0.8430 in^4
r: Radius of Gyratic	0.7743 in	S: Modulus	0.6527 in^3
		Z: Plastic Modulus	0.9074 in^3



Rectangular & Circular Shapes

Rectangular Shape : 1	Height =	0.125 in	Width =	5.500 in	Rotation =	0 deg CCW	
	Area =	0.688 in^2	Xcg =	0.000 in			
			Ycg =	0.000 in			

AHBL, Inc.
2215 North 30th Street, Suite 200
Tacoma, WA 98403
(253) 383-2422

Project Title: Welcome Ramp Aluminum Treads
Engineer: ADM
Project ID: 2241015.20
Project Descr: Optional Aluminum Tread System

Printed: 10 DEC 2024, 4:30PM

General Section Property Calculator

Project File: 2241015 Aluminum Treads.ec6

LIC# : KW-06014847, Build:20.24.12.02 AHBL, INC (c) ENERCALC, LLC 1982-2024

DESCRIPTION: 12" Aluminum Steps - Deflection

Rectangular Shape : 2	Height =	1.875	in	Width =	0.125	in	Rotation = 0 deg CCW
	Area =	0.234	in^2	Xcg =	2.688	in	
				Ycg =	-0.938	in	
Rectangular Shape : 3	Height =	1.875	in	Width =	0.125	in	Rotation = 0 deg CCW
	Area =	0.234	in^2	Xcg =	-2.688	in	
				Ycg =	-0.938	in	
Rectangular Shape : 4	Height =	0.125	in	Width =	1.000	in	Rotation = 0 deg CCW
	Area =	0.125	in^2	Xcg =	-2.250	in	
				Ycg =	-1.875	in	
Rectangular Shape : 5	Height =	0.125	in	Width =	1.000	in	Rotation = 0 deg CCW
	Area =	0.125	in^2	Xcg =	2.250	in	
				Ycg =	-1.875	in	

MEMBER PROPERTIES

AHBL, Inc.
2215 North 30th Street, Suite 200
Tacoma, WA 98403
(253) 383-2422

Project Title: Centeris Puyallup
Engineer: ADM
Project ID: 2241015.20
Project Descr: Modular Ramps and Stairs

Printed: 10 DEC 2024, 4:32PM

General Section Property Calculator

Project File: 2241015 Welcome Ramp.ec6

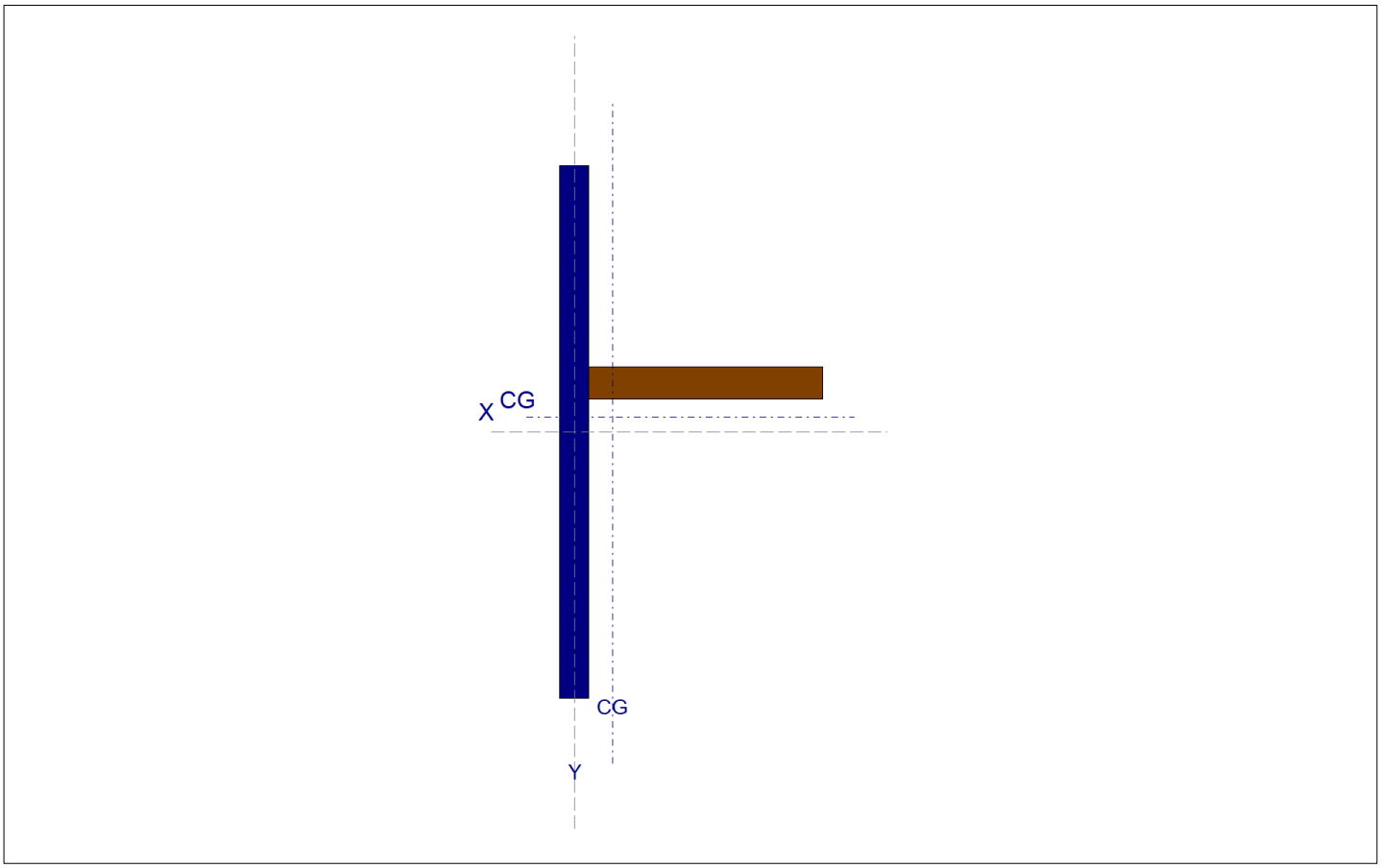
LIC# : KW-06014847, Build:20.24.12.02 AHBL, INC (c) ENERCALC, LLC 1982-2024

DESCRIPTION: Platform Support Rail / Edge Member

Final Section Properties

Total Area	:	1.438 in^2	Ixx	:	1.378 in^4	Sxx : - Y	: 0.6520 in^3
			Iyy	:	0.4212 in^4	Sxx : +Y	: 0.7309 in^3
Calculated final C.G. distance from Datum :						Syy : - X	: 0.9810 in^3
X cg Dist.	:	0.3043 in	Zxx	:	1.058 in^3	Syy : +X	: 0.2682 in^3
Y cg Dist.	:	0.1141 in	Zyy	:	0.4880 in^3		
Edge Distances from CG. :						r xx	: 0.9792 in
+X	:	1.571 in	+Y	:	1.886 in	r yy	: 0.5413 in
-X	:	-0.4293 in	-Y	:	-2.114 in		

Rotation of All Components @ / 0.00 deg CCW



Rectangular & Circular Shapes

Rectangular Shape : 1	Height =	4.000 in	Width =	0.250 in	Rotation =	0 deg CCW	
	Area =	1.000 in^2	Xcg =	0.000 in			
			Ycg =	0.000 in			

AHBL, Inc.
2215 North 30th Street, Suite 200
Tacoma, WA 98403
(253) 383-2422

Project Title: Centeris Puyallup
Engineer: ADM
Project ID: 2241015.20
Project Descr: Modular Ramps and Stairs

Printed: 10 DEC 2024, 4:32PM

General Section Property Calculator

Project File: 2241015 Welcome Ramp.ec6

LIC# : KW-06014847, Build:20.24.12.02 AHBL, INC (c) ENERCALC, LLC 1982-2024

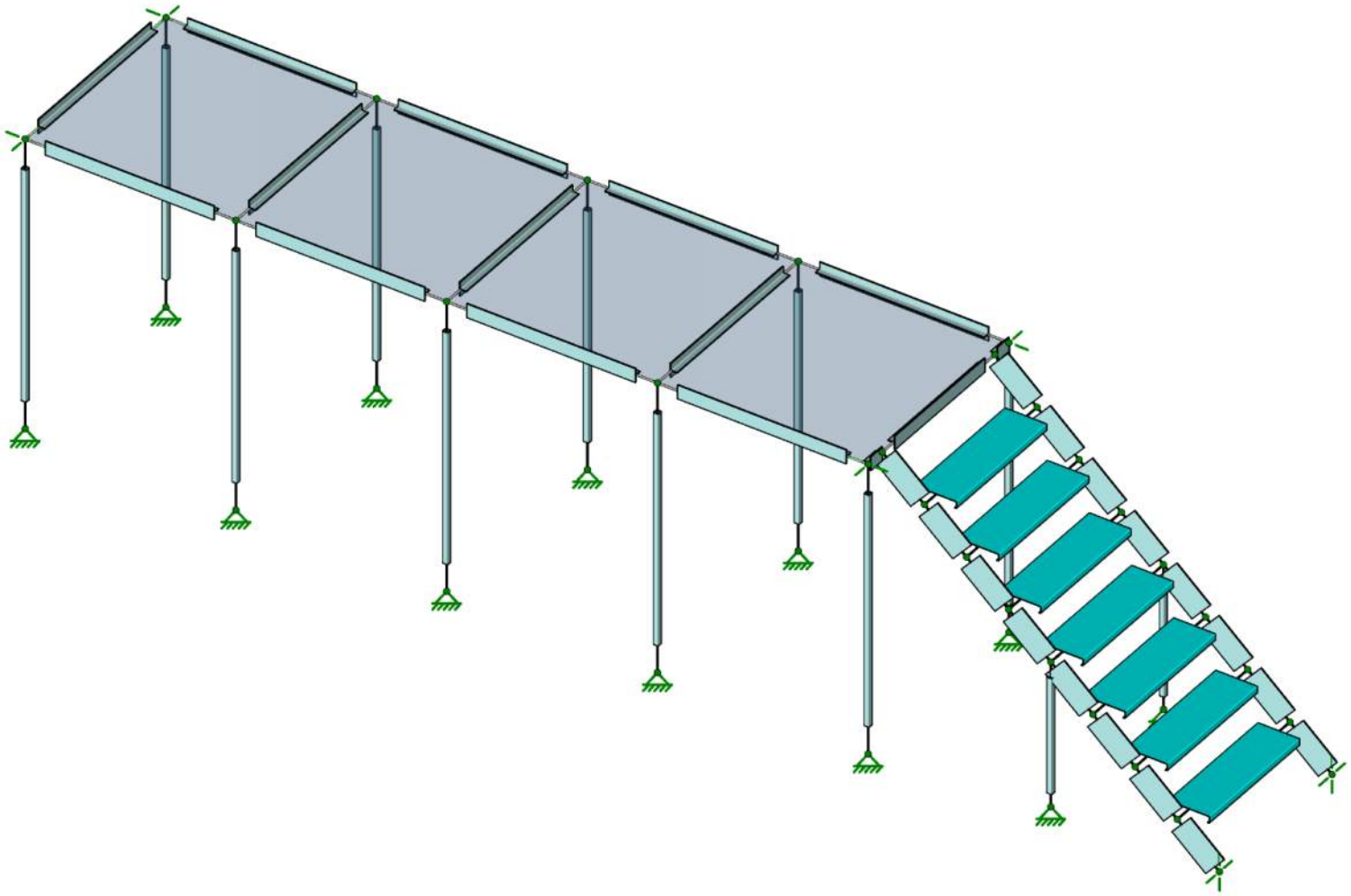
DESCRIPTION: Platform Support Rail / Edge Member

Rectangular Shape : 2

Height =	0.250 in	Width =	1.750 in	Rotation =	0 deg CCW
Area =	0.438 in^2	Xcg =	1.000 in		
		Ycg =	0.375 in		

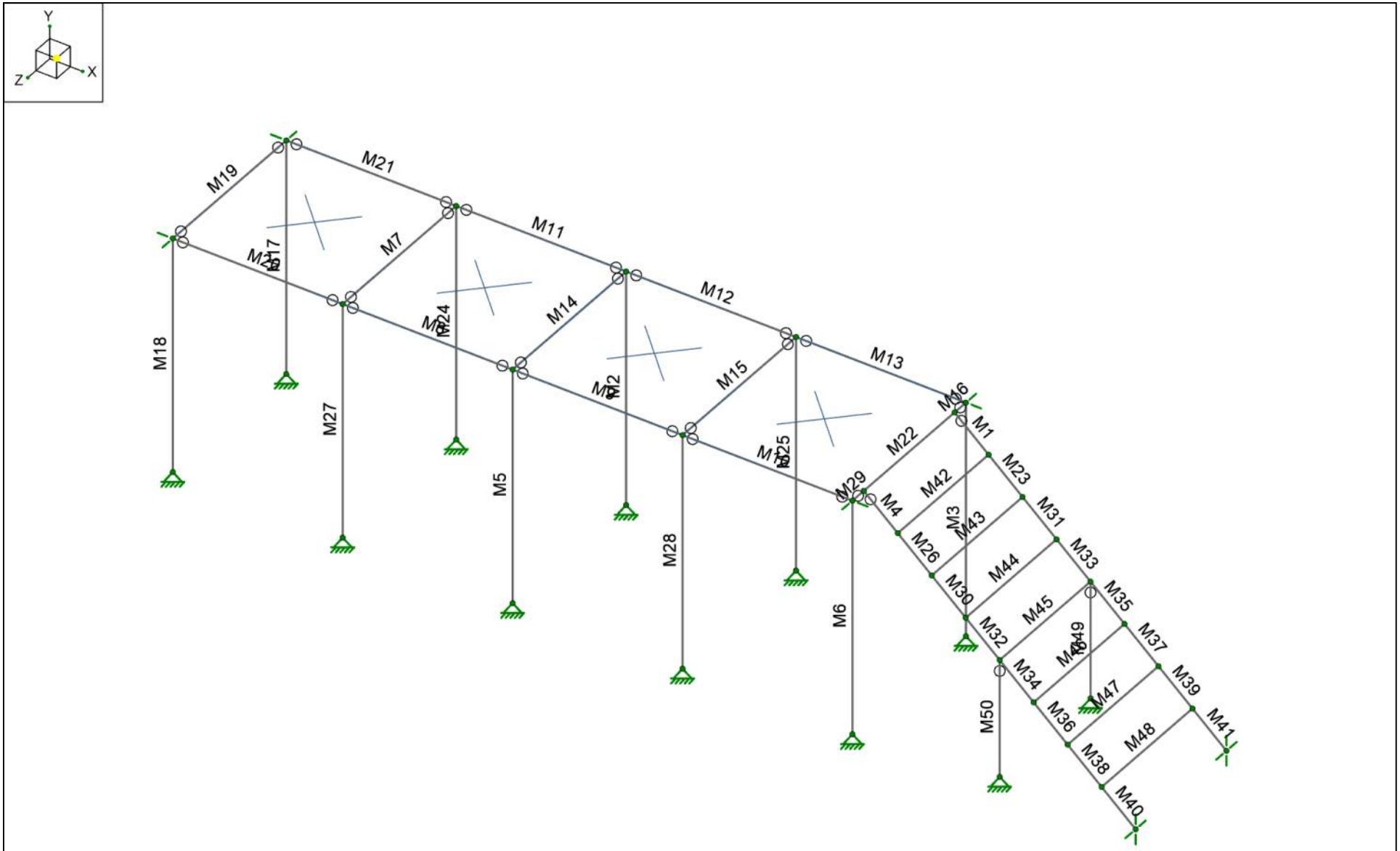
ACCESS PLATFORM AND STAIR STRUCTURAL CALCULATIONS

SINGLE WIDTH PLATFORM



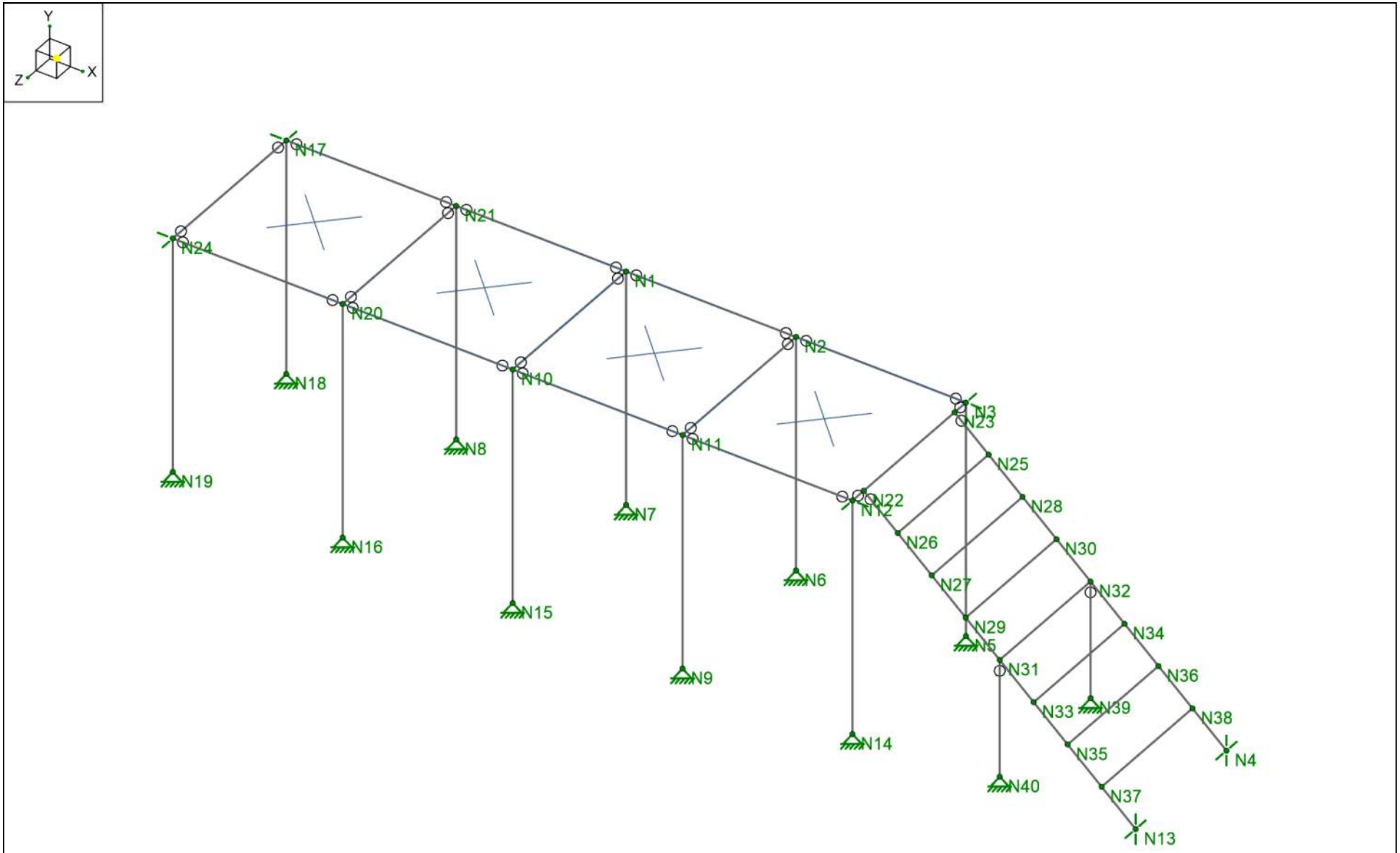
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Gravity Load Only	SK-1
	AMP		Dec 27, 2024 at 10:05 AM
	2241015.20		Access Platform with Stair - Single Grav…



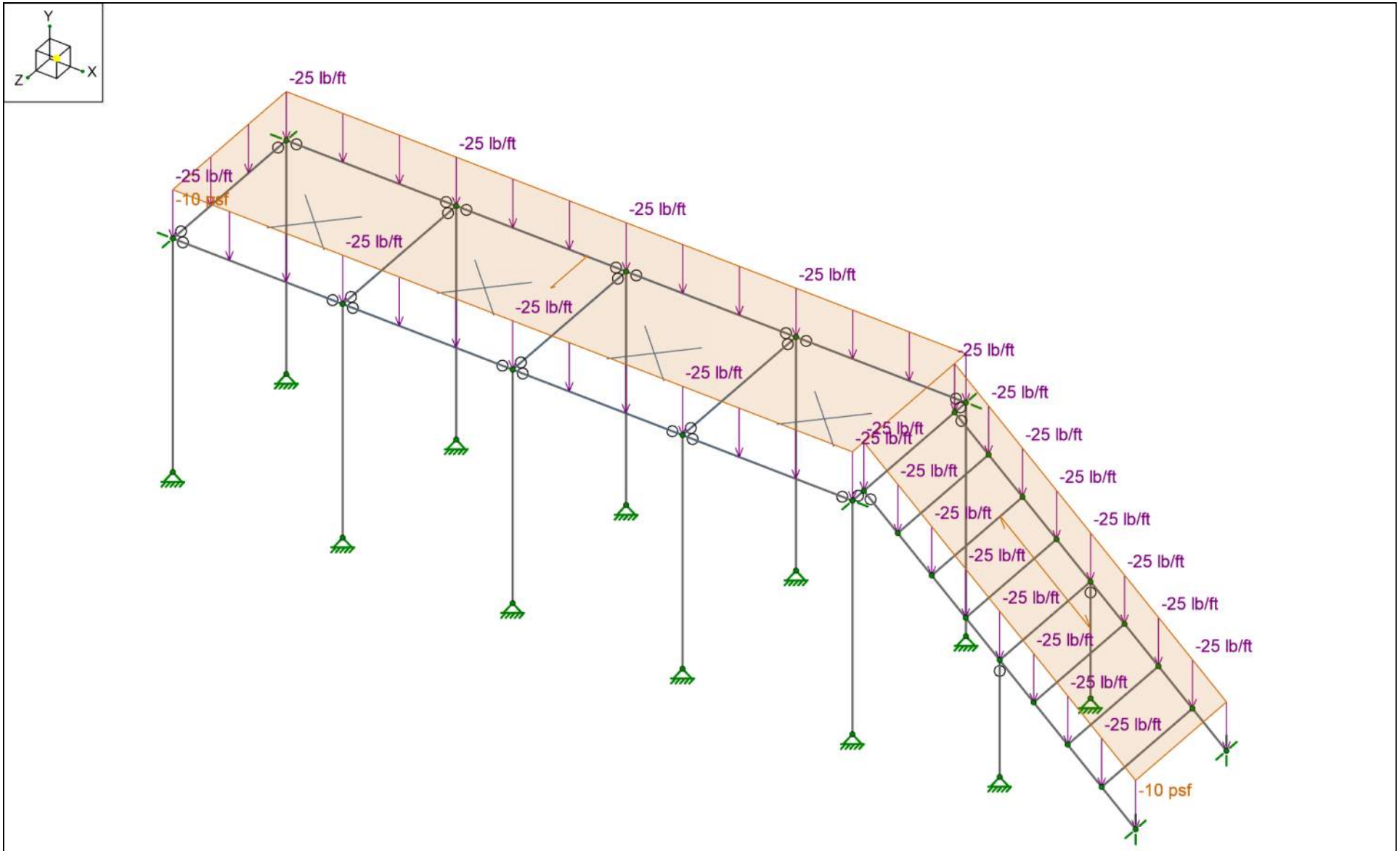
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Gravity Load Only	SK-2
	AMP		Dec 27, 2024 at 10:05 AM
	2241015.20		Access Platform with Stair - Single Grav…



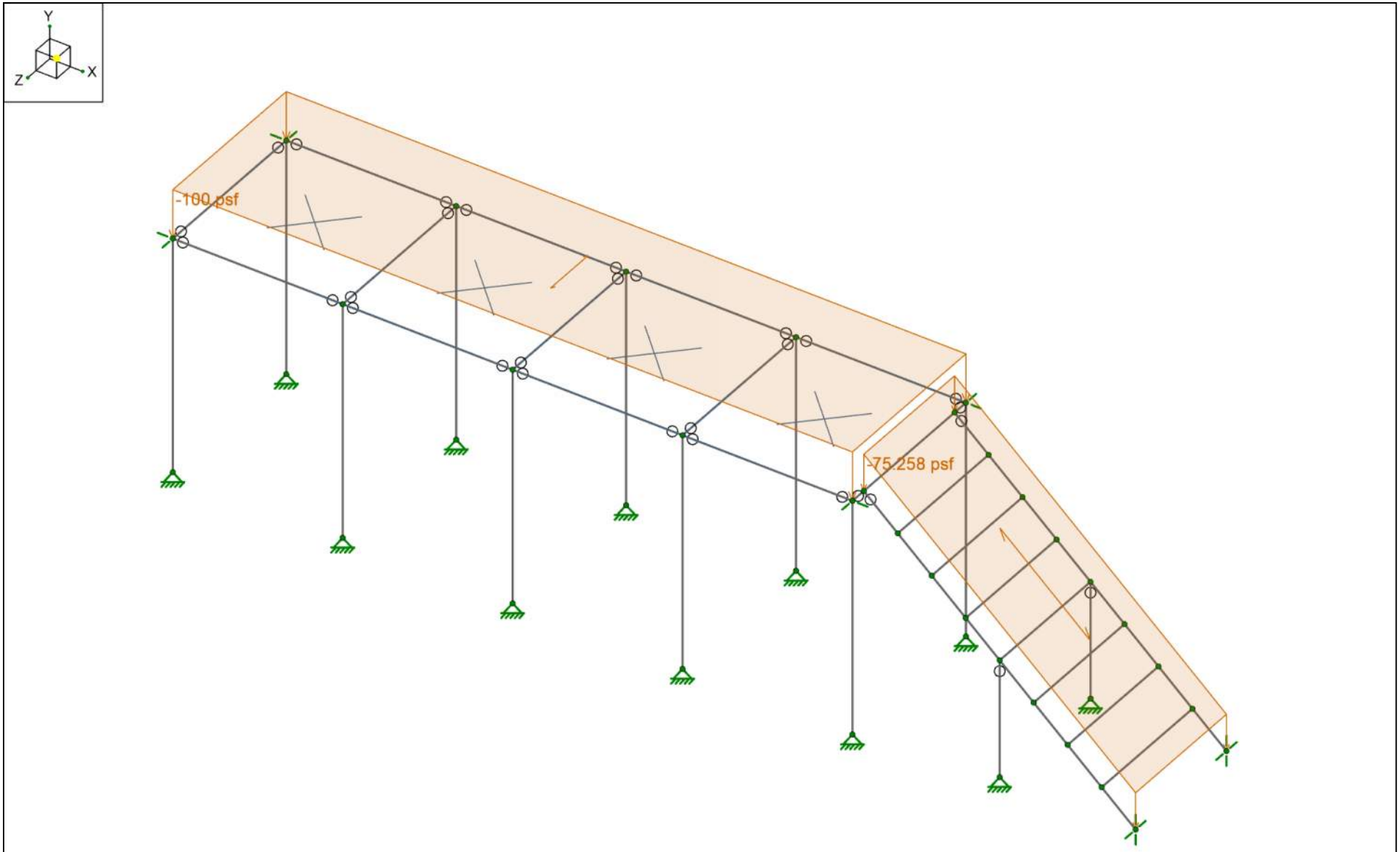
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Gravity Load Only	SK-3
	AMP		Dec 27, 2024 at 10:06 AM
	2241015.20		Access Platform with Stair - Single Grav…



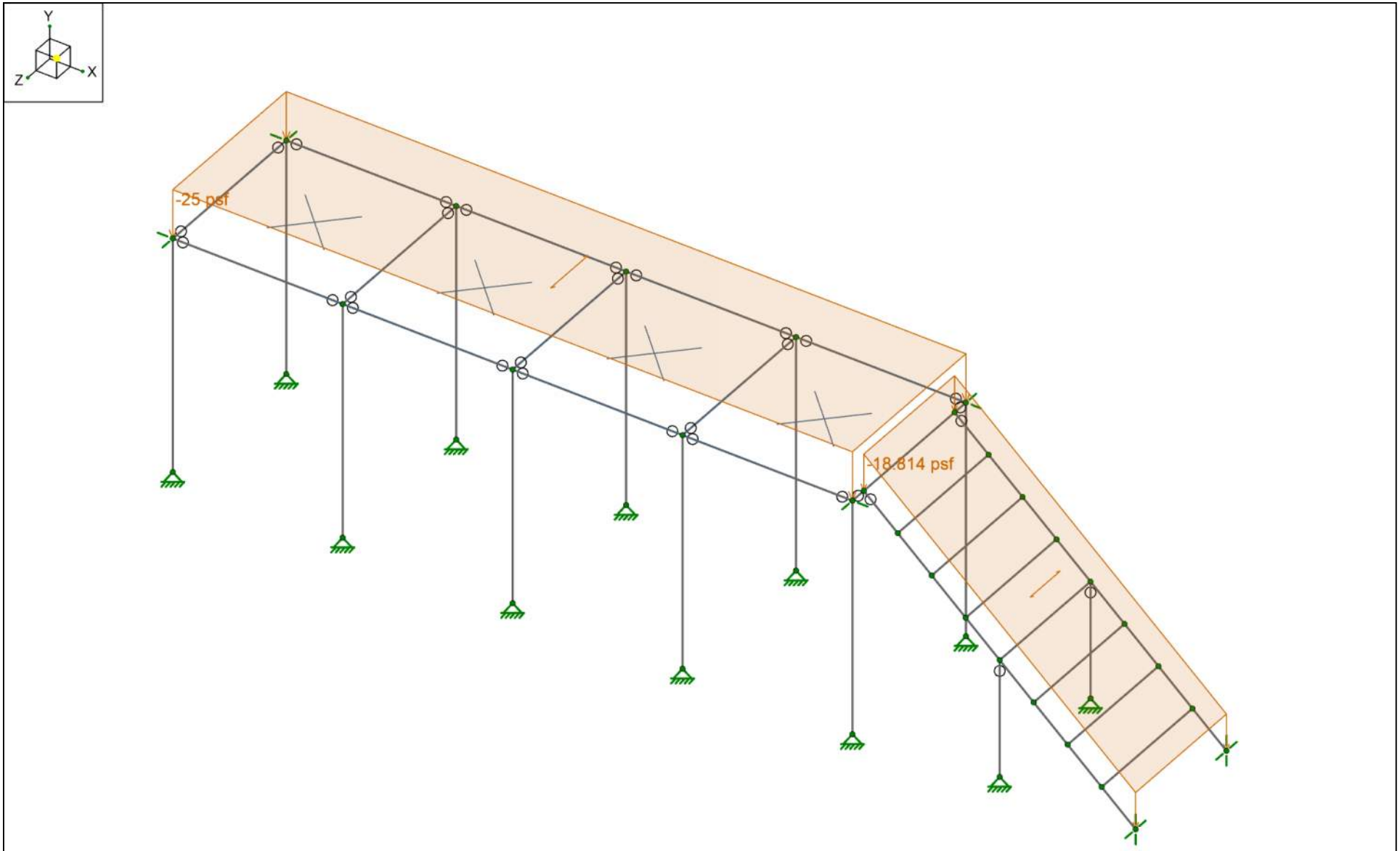
Loads: BLC 1, Dead
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Gravity Load Only	SK-4
	AMP		Dec 27, 2024 at 10:06 AM
	2241015.20		Access Platform with Stair - Single Grav…



Loads: BLC 2, Live
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Gravity Load Only	SK-5
	AMP		Dec 27, 2024 at 10:06 AM
	2241015.20		Access Platform with Stair - Single Grav…



Loads: BLC 3, Snow
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Gravity Load Only	SK-6
	AMP		Dec 27, 2024 at 10:06 AM
	2241015.20		Access Platform with Stair - Single Grav…

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	N1	10	7	0	
2	N2	15	7	0	
3	N3	20	7	0	
4	N4	28	0	0.5	
5	N5	20	0	0	
6	N6	15	0	0	
7	N7	10	0	0	
8	N8	5	0	0	
9	N9	15	0	5	
10	N10	10	7	5	
11	N11	15	7	5	
12	N12	20	7	5	
13	N13	28	0	4.5	
14	N14	20	0	5	
15	N15	10	0	5	
16	N16	5	0	5	
17	N17	0	7	0	
18	N18	0	0	0	
19	N19	0	0	5	
20	N20	5	7	5	
21	N21	5	7	0	
22	N22	20	7	4.5	
23	N23	20	7	0.5	
24	N24	0	7	5	
25	N25	21	6.125	0.5	
26	N26	21	6.125	4.5	
27	N27	22	5.25	4.5	
28	N28	22	5.25	0.5	
29	N29	23	4.375	4.5	
30	N30	23	4.375	0.5	
31	N31	24	3.5	4.5	
32	N32	24	3.5	0.5	
33	N33	25	2.625	4.5	
34	N34	25	2.625	0.5	
35	N35	26	1.75	4.5	
36	N36	26	1.75	0.5	
37	N37	27	0.875	4.5	
38	N38	27	0.875	0.5	
39	N39	24	0	0.5	
40	N40	24	0	4.5	

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
1	N4		Reaction	Reaction
2	N5	Reaction	Reaction	Reaction
3	N6	Reaction	Reaction	Reaction
4	N7	Reaction	Reaction	Reaction
5	N8	Reaction	Reaction	Reaction
6	N9	Reaction	Reaction	Reaction
7	N13		Reaction	Reaction
8	N14	Reaction	Reaction	Reaction
9	N15	Reaction	Reaction	Reaction
10	N16	Reaction	Reaction	Reaction
11	N18	Reaction	Reaction	Reaction

Node Boundary Conditions (Continued)

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
12	N19	Reaction	Reaction	Reaction
13	N39	Reaction	Reaction	Reaction
14	N40	Reaction	Reaction	Reaction
15	N17	Reaction		Reaction
16	N24	Reaction		Reaction
17	N3	Reaction		Reaction
18	N12	Reaction		Reaction

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	0.3	0.65	0.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	0.3	0.65	0.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
9	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1

Cold Formed Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Fu [ksi]
1	A653 SS Gr33	29500	11346	0.3	0.65	0.49	33	45
2	A653 SS Gr50/1	29500	11346	0.3	0.65	0.49	50	65

Wood Properties

	Label	Type	Database	Species	Grade	Cm	Ci	Emod	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]
1	DF	Solid Sawn	Visually Graded	Douglas Fir-Larch	No.1			1	0.3	0.3	0.035
2	SP	Solid Sawn	Visually Graded	Southern Pine	No.1			1	0.3	0.3	0.035
3	HF	Solid Sawn	Visually Graded	Hem-Fir	No.1			1	0.3	0.3	0.035
4	SPF	Solid Sawn	Visually Graded	Spruce-Pine-fir	No.1			1	0.3	0.3	0.035
5	24F-1.8E DF Balanced	Glulam	NDS Table 5A	24F-1.8E_DF_BAL	na			1	0.3	0.3	0.035
6	24F-1.8E DF Unbalanced	Glulam	NDS Table 5A	24F-1.8E_DF_UNBAL	na			1	0.3	0.3	0.035
7	24F-1.8E SP Balanced	Glulam	NDS Table 5A	24F-1.8E_SP_BAL	na			1	0.3	0.3	0.035
8	24F-1.8E SP Unbalanced	Glulam	NDS Table 5A	24F-1.8E_SP_UNBAL	na			1	0.3	0.3	0.035
9	1.3E-1600F_VERSALAM	SCL	Boise Cascade	1.3E-1600F_VERSALAM	na			1	0.3	0.3	0.035
10	1.35E LSL_SolidStart	SCL	Louisiana Pacific	1.35E LSL_SolidStart	na			1	0.3	0.3	0.035
11	1.3E_RIGIDLAM LVL	SCL	Roseburg Forest Products_2012	1.3E_RIGIDLAM LVL	na			1	0.3	0.3	0.035
12	2.0E_DF Parallam PSL	SCL	TrusJoist	2.0E_DF Parallam PSL	na			1	0.3	0.3	0.035
13	LVL_PRL_1.5E_2250F	Custom	N/A	LVL_PRL_1.5E_2250F	na			1	0.3	0.3	0.035
14	LVL_Microlam_1.9E_2600F	Custom	N/A	LVL_Microllam_1.9E_2600F	na			1	0.3	0.3	0.035
15	PSL_Parallam_2.0E_2900F	Custom	N/A	PSL_Parallam_2.0E_2900F	na			1	0.3	0.3	0.035
16	LSL_TimberStrand_1.55E_2325F	Custom	N/A	LSL_TimberStrand_1.55E_2325F	na			1	0.3	0.3	0.035

Concrete Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	f'c [ksi]	Lambda	Flex Steel [ksi]	Shear Steel [ksi]
1	Conc3000NW	3156	1372	0.15	0.6	0.145	3	1	60	60
2	Conc3500NW	3409	1482	0.15	0.6	0.145	3.5	1	60	60
3	Conc4000NW	3644	1584	0.15	0.6	0.145	4	1	60	60

Concrete Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	f'c [ksi]	Lambda	Flex Steel [ksi]	Shear Steel [ksi]
4	Conc3000LW	2085	907	0.15	0.6	0.11	3	0.75	60	60
5	Conc3500LW	2252	979	0.15	0.6	0.11	3.5	0.75	60	60
6	Conc4000LW	2408	1047	0.15	0.6	0.11	4	0.75	60	60

Masonry Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Self Weight [k/ft³]	f'm [ksi]	Flex Steel [ksi]	Shear Steel [ksi]
1	Concrete Matl	1350	540	0.25	0.6	Custom	1.5	60	60
2	Clay Matl	1050	420	0.25	0.6	Custom	1.5	60	60
3	Gen Masonry	1050	420	0.25	0.6	0.08	1.5	60	60

Aluminum Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Table B.4	kt	Ftu [ksi]	Fty [ksi]	Fcy [ksi]	Fsu [ksi]	Ct
1	3003-H14	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	19	16	13	12	141
2	6061-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	38	35	35	24	141
3	6063-T5	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	22	16	16	13	141
4	6063-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	30	25	25	19	141
5	5052-H34	10200	3787.5	0.33	1.3	0.173	Table B.4-1	1	34	26	24	20	141
6	6061-T6 W	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	24	15	15	15	141

Stainless Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	n	Yield [ksi]	Fu [ksi]
1	A276 S316	28000	10780	0.3	0.93	0.5	5.6	30	75
2	A276 S321	29000	11165	0.3	0.73	0.48	5.6	65	94
3	A276 S304	28000	10780	0.3	0.93	0.49	5.6	30	75

General Materials Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Plate Methodology
1	gen_Conc3NW	3155	1372	0.15	0.6	0.145	Isotropic
2	gen_Conc4NW	3644	1584	0.15	0.6	0.145	Isotropic
3	gen_Conc3LW	2085	906	0.15	0.6	0.11	Isotropic
4	gen_Conc4LW	2408	1047	0.15	0.6	0.11	Isotropic
5	gen_Alum	10100	4077	0.3	1.29	0.173	Isotropic
6	gen_Steel	29000	11154	0.3	0.65	0.49	Isotropic
7	gen_Plywood	1800	38	0	0.3	0.035	Isotropic
8	RIGID	1e+6		0.3	0	0	Isotropic
9	gen_Ortho				0.65	0.49	Orthotropic

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Stair Tread	1200S200-97	Beam	CS	A653 SS Gr50/1	Typical	1.68	0.635	30.4	0.006

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N23	N25		Stair Stringer	Beam	None	6061-T6	Typical
2	M2	N7	N1		Post	Column	Rectangular Tubes	6061-T6	Typical
3	M3	N5	N3		Post	Column	Rectangular Tubes	6061-T6	Typical
4	M4	N22	N26		Stair Stringer	Beam	None	6061-T6	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
5	M5	N15	N10		Post	Column	Rectangular Tubes	6061-T6	Typical
6	M6	N14	N12		Post	Column	Rectangular Tubes	6061-T6	Typical
7	M7	N20	N21	270	Landing Edge Bm	Beam	None	6061-T6	Typical
8	M8	N10	N20	270	Landing Edge Bm	Beam	None	6061-T6	Typical
9	M9	N11	N10	270	Landing Edge Bm	Beam	None	6061-T6	Typical
10	M10	N12	N11	270	Landing Edge Bm	Beam	None	6061-T6	Typical
11	M11	N21	N1	270	Landing Edge Bm	Beam	None	6061-T6	Typical
12	M12	N1	N2	270	Landing Edge Bm	Beam	None	6061-T6	Typical
13	M13	N2	N3	270	Landing Edge Bm	Beam	None	6061-T6	Typical
14	M14	N10	N1	270	Landing Edge Bm	Beam	None	6061-T6	Typical
15	M15	N11	N2	270	Landing Edge Bm	Beam	None	6061-T6	Typical
16	M16	N3	N23	270	Landing Edge Bm	Beam	None	6061-T6	Typical
17	M17	N18	N17		Post	Column	Rectangular Tubes	6061-T6	Typical
18	M18	N19	N24		Post	Column	Rectangular Tubes	6061-T6	Typical
19	M19	N24	N17	270	Landing Edge Bm	Beam	None	6061-T6	Typical
20	M20	N20	N24	270	Landing Edge Bm	Beam	None	6061-T6	Typical
21	M21	N17	N21	270	Landing Edge Bm	Beam	None	6061-T6	Typical
22	M22	N23	N22	270	Landing Edge Bm	Beam	None	6061-T6	Typical
23	M23	N25	N28		Stair Stringer	Beam	None	6061-T6	Typical
24	M24	N8	N21		Post	Column	Rectangular Tubes	6061-T6	Typical
25	M25	N6	N2		Post	Column	Rectangular Tubes	6061-T6	Typical
26	M26	N26	N27		Stair Stringer	Beam	None	6061-T6	Typical
27	M27	N16	N20		Post	Column	Rectangular Tubes	6061-T6	Typical
28	M28	N9	N11		Post	Column	Rectangular Tubes	6061-T6	Typical
29	M29	N22	N12	270	Landing Edge Bm	Beam	None	6061-T6	Typical
30	M30	N27	N29		Stair Stringer	Beam	None	6061-T6	Typical
31	M31	N28	N30		Stair Stringer	Beam	None	6061-T6	Typical
32	M32	N29	N31		Stair Stringer	Beam	None	6061-T6	Typical
33	M33	N30	N32		Stair Stringer	Beam	None	6061-T6	Typical
34	M34	N31	N33		Stair Stringer	Beam	None	6061-T6	Typical
35	M35	N32	N34		Stair Stringer	Beam	None	6061-T6	Typical
36	M36	N33	N35		Stair Stringer	Beam	None	6061-T6	Typical
37	M37	N34	N36		Stair Stringer	Beam	None	6061-T6	Typical
38	M38	N35	N37		Stair Stringer	Beam	None	6061-T6	Typical
39	M39	N36	N38		Stair Stringer	Beam	None	6061-T6	Typical
40	M40	N37	N13		Stair Stringer	Beam	None	6061-T6	Typical
41	M41	N38	N4		Stair Stringer	Beam	None	6061-T6	Typical
42	M42	N26	N25	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
43	M43	N27	N28	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
44	M44	N29	N30	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
45	M45	N31	N32	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
46	M46	N33	N34	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
47	M47	N35	N36	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
48	M48	N37	N38	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
49	M49	N39	N32		Post	Column	Rectangular Tubes	6061-T6	Typical
50	M50	N40	N31		Post	Column	Rectangular Tubes	6061-T6	Typical

Member Advanced Data

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
1	M1	BenPIN				Default	None
2	M2					** NA **	None
3	M3					** NA **	None
4	M4	BenPIN				Default	None
5	M5					** NA **	None
6	M6					** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
7	M7	BenPIN	BenPIN			Default	None
8	M8	BenPIN	BenPIN			Default	None
9	M9	BenPIN	BenPIN			Default	None
10	M10	BenPIN	BenPIN			Default	None
11	M11	BenPIN	BenPIN			Default	None
12	M12	BenPIN	BenPIN			Default	None
13	M13	BenPIN	BenPIN			Default	None
14	M14	BenPIN	BenPIN			Default	None
15	M15	BenPIN	BenPIN			Default	None
16	M16	BenPIN				Default	None
17	M17					** NA **	None
18	M18					** NA **	None
19	M19	BenPIN	BenPIN			Default	None
20	M20	BenPIN	BenPIN			Default	None
21	M21	BenPIN	BenPIN			Default	None
22	M22					Default	None
23	M23					Default	None
24	M24					** NA **	None
25	M25					** NA **	None
26	M26					Default	None
27	M27					** NA **	None
28	M28					** NA **	None
29	M29		BenPIN			Default	None
30	M30					Default	None
31	M31					Default	None
32	M32					Default	None
33	M33					Default	None
34	M34					Default	None
35	M35					Default	None
36	M36					Default	None
37	M37					Default	None
38	M38					Default	None
39	M39					Default	None
40	M40					Default	None
41	M41					Default	None
42	M42					Default	None
43	M43					Default	None
44	M44					Default	None
45	M45					Default	None
46	M46					Default	None
47	M47					Default	None
48	M48					Default	None
49	M49		BenPIN			** NA **	None
50	M50		BenPIN			** NA **	None

Aluminum Design Parameters

	Label	Shape	Length [ft]	Lb y-y [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
1	M1	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
2	M2	Post	7		Lbyy		Lateral
3	M3	Post	7		Lbyy		Lateral
4	M4	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
5	M5	Post	7		Lbyy		Lateral
6	M6	Post	7		Lbyy		Lateral
7	M7	Landing Edge Bm	5		Lbyy		Lateral
8	M8	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral

Aluminum Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
9	M9	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
10	M10	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
11	M11	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
12	M12	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
13	M13	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
14	M14	Landing Edge Bm	5		Lbyy		Lateral
15	M15	Landing Edge Bm	5		Lbyy		Lateral
16	M16	Landing Edge Bm	0.5		Lbyy		Lateral
17	M17	Post	7		Lbyy		Lateral
18	M18	Post	7		Lbyy		Lateral
19	M19	Landing Edge Bm	5		Lbyy		Lateral
20	M20	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
21	M21	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
22	M22	Landing Edge Bm	4		Lbyy		Lateral
23	M23	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
24	M24	Post	7		Lbyy		Lateral
25	M25	Post	7		Lbyy		Lateral
26	M26	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
27	M27	Post	7		Lbyy		Lateral
28	M28	Post	7		Lbyy		Lateral
29	M29	Landing Edge Bm	0.5		Lbyy		Lateral
30	M30	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
31	M31	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
32	M32	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
33	M33	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
34	M34	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
35	M35	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
36	M36	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
37	M37	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
38	M38	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
39	M39	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
40	M40	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
41	M41	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
42	M49	Post	3.5		Lbyy		Lateral
43	M50	Post	3.5		Lbyy		Lateral

Plate Primary Data

	Label	A Node	B Node	C Node	D Node	Material	Thickness [in]
1	P1	N20	N21	N1	N10	gen_Steel	0.03
2	P2	N10	N1	N2	N11	gen_Steel	0.03
3	P3	N11	N2	N3	N12	gen_Steel	0.03
4	P4	N24	N17	N21	N20	gen_Steel	0.03

Plate Advanced Data

	Label	Plane Stress	Rotate
1	P1		0
2	P2		0
3	P3		0
4	P4		0

Nodal Loads and Enforced Displacements

No Data to Print...

Member Point Loads

No Data to Print...

Member Distributed Loads (BLC 1 : Dead)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M19	Y	-25	-25	0	%100
2	M21	Y	-25	-25	0	%100
3	M11	Y	-25	-25	0	%100
4	M12	Y	-25	-25	0	%100
5	M13	Y	-25	-25	0	%100
6	M1	Y	-25	-25	0	%100
7	M4	Y	-25	-25	0	%100
8	M10	Y	-25	-25	0	%100
9	M9	Y	-25	-25	0	%100
10	M8	Y	-25	-25	0	%100
11	M20	Y	-25	-25	0	%100
12	M23	Y	-25	-25	0	%100
13	M31	Y	-25	-25	0	%100
14	M33	Y	-25	-25	0	%100
15	M35	Y	-25	-25	0	%100
16	M37	Y	-25	-25	0	%100
17	M39	Y	-25	-25	0	%100
18	M41	Y	-25	-25	0	%100
19	M26	Y	-25	-25	0	%100
20	M30	Y	-25	-25	0	%100
21	M32	Y	-25	-25	0	%100
22	M34	Y	-25	-25	0	%100
23	M36	Y	-25	-25	0	%100
24	M38	Y	-25	-25	0	%100
25	M40	Y	-25	-25	0	%100

Member Distributed Loads (BLC 4 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M8	Y	-25	-25	6.384e-16	5
2	M9	Y	-25	-25	6.384e-16	5
3	M10	Y	-25	-25	4.441e-16	5
4	M11	Y	-25	-25	1.082e-15	5
5	M12	Y	-25	-25	1.082e-15	5
6	M13	Y	-25	-25	6.384e-16	5
7	M20	Y	-25	-25	6.384e-16	5
8	M21	Y	-25	-25	0	5
9	M22	Y	-6.644	-6.644	4.302e-16	4
10	M42	Y	-13.288	-13.288	1.499e-15	4
11	M43	Y	-13.288	-13.288	2.498e-15	4
12	M44	Y	-13.288	-13.288	2.914e-16	4
13	M45	Y	-13.288	-13.288	9.298e-16	4
14	M46	Y	-13.288	-13.288	6.939e-17	4
15	M47	Y	-13.288	-13.288	0	4
16	M48	Y	-19.932	-19.932	0	4

Member Distributed Loads (BLC 5 : BLC 2 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M8	Y	-250	-250	6.384e-16	5
2	M9	Y	-250	-250	6.384e-16	5
3	M10	Y	-250	-250	4.441e-16	5
4	M11	Y	-250	-250	1.082e-15	5
5	M12	Y	-250	-250	1.082e-15	5
6	M13	Y	-250	-250	6.384e-16	5
7	M20	Y	-250	-250	6.384e-16	5
8	M21	Y	-250	-250	0	5
9	M22	Y	-50	-50	6.8e-16	4
10	M42	Y	-100	-100	1.471e-15	4
11	M43	Y	-100	-100	6.634e-15	4
12	M44	Y	-100	-100	8.576e-15	4
13	M45	Y	-100	-100	7.3e-15	4
14	M46	Y	-100	-100	7.938e-15	4
15	M47	Y	-100	-100	7.133e-15	4
16	M48	Y	-150	-150	6.523e-15	4

Member Distributed Loads (BLC 6 : BLC 3 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M13	Y	-62.5	-62.5	6.384e-16	5
2	M20	Y	-62.5	-62.5	6.384e-16	5
3	M21	Y	-62.5	-62.5	0	5
4	M1	Y	-37.629	-37.629	5.315e-15	1.329
5	M4	Y	-37.629	-37.629	5.121e-15	1.329
6	M23	Y	-37.629	-37.629	5.565e-15	1.329
7	M26	Y	-37.629	-37.629	5.398e-15	1.329
8	M30	Y	-37.629	-37.629	4.427e-15	1.329
9	M31	Y	-37.629	-37.629	0	1.329
10	M32	Y	-37.629	-37.629	1.318e-15	1.329
11	M33	Y	-37.629	-37.629	5.01e-15	1.329
12	M34	Y	-37.629	-37.629	2.845e-15	1.329
13	M35	Y	-37.629	-37.629	4.732e-15	1.329
14	M36	Y	-37.629	-37.629	2.845e-15	1.329
15	M37	Y	-37.629	-37.629	0	1.329
16	M38	Y	-37.629	-37.629	0	1.329
17	M39	Y	-37.629	-37.629	0	1.329
18	M40	Y	-37.629	-37.629	1.554e-15	1.329
19	M41	Y	-37.629	-37.629	9.992e-16	1.329
20	M8	Y	-62.5	-62.5	6.384e-16	5
21	M9	Y	-62.5	-62.5	6.384e-16	5
22	M10	Y	-62.5	-62.5	4.441e-16	5
23	M11	Y	-62.5	-62.5	1.082e-15	5
24	M12	Y	-62.5	-62.5	1.082e-15	5

Member Area Loads (BLC 1 : Dead)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N24	N17	N3	N12	Y	A-B	-10	-10	-10	-10	Yes
2	N13	N4	N23	N22	Y	B-C	-10	-10	-10	-10	Yes

Member Area Loads (BLC 2 : Live)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N24	N17	N3	N12	Y	A-B	-100	-100	-100	-100	Yes
2	N22	N23	N4	N13	PY	B-C	-100	-100	-100	-100	Yes

Member Area Loads (BLC 3 : Snow)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N24	N17	N3	N12	Y	A-B	-25	-25	-25	-25	Yes
2	N22	N23	N4	N13	PY	A-B	-25	-25	-25	-25	Yes

Basic Load Cases

	BLC Description	Category	Y Gravity	Distributed	Area(Member)
1	Dead	DL	-1	25	2
2	Live	LL			2
3	Snow	SL			2
4	BLC 1 Transient Area Loads	None		16	
5	BLC 2 Transient Area Loads	None		16	
6	BLC 3 Transient Area Loads	None		24	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	Deflection 1	Yes	C	DL	1								
2	Deflection 2	Yes	C	LL	1								
3	Deflection 3	Yes	C	DL	1	LL	1						
4	IBC 21/ASCE ASD 1	Yes	C	DL	1								
5	IBC 21/ASCE ASD 2	Yes	C	DL	1	LL	1	LLS	1				
6	IBC 21/ASCE ASD 3 (b)	Yes	C	DL	1	SL	1	SLN	1				
7	IBC 21/ASCE ASD 4 (b)	Yes	C	DL	1	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75

Load Combination Design

	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
1	Deflection 1		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	Deflection 2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	Deflection 3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	IBC 21/ASCE ASD 1	0.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	IBC 21/ASCE ASD 2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	IBC 21/ASCE ASD 3 (b)	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	IBC 21/ASCE ASD 4 (b)	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N4	max	0	7	344.486	5	2.539	5	0	7	0	7	0	7
2		min	0	1	96.003	1	0.371	6	0	1	0	1	0	1
3	N5	max	-0.017	4	1147.923	5	0	4	0	7	0	7	0	7
4		min	-0.169	3	246.384	1	0	3	0	1	0	1	0	1
5	N6	max	0.023	5	1532.802	5	0	4	0	7	0	7	0	7
6		min	0.003	1	283.712	1	0	3	0	1	0	1	0	1
7	N7	max	-0.003	4	1534.957	5	0	4	0	7	0	7	0	7
8		min	-0.024	3	283.932	1	0	3	0	1	0	1	0	1
9	N8	max	0.025	5	1532.536	5	0	4	0	7	0	7	0	7

Envelope Node Reactions (Continued)

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
10		min	0.003	1	283.68	1	0	3	0	1	0	1	0	1
11	N9	max	0.023	5	1532.802	5	0	5	0	7	0	7	0	7
12		min	0.003	1	283.712	1	0	1	0	1	0	1	0	1
13	N13	max	0	7	344.486	5	-0.371	6	0	7	0	7	0	7
14		min	0	1	96.003	1	-2.539	3	0	1	0	1	0	1
15	N14	max	-0.017	4	1147.923	5	0	5	0	7	0	7	0	7
16		min	-0.169	3	246.384	1	0	1	0	1	0	1	0	1
17	N15	max	-0.003	4	1534.957	5	0	5	0	7	0	7	0	7
18		min	-0.024	3	283.932	1	0	1	0	1	0	1	0	1
19	N16	max	0.025	5	1532.536	5	0	5	0	7	0	7	0	7
20		min	0.003	1	283.68	1	0	1	0	1	0	1	0	1
21	N18	max	0.241	5	835.019	5	0	4	0	7	0	7	0	7
22		min	0.025	1	209.416	1	0	3	0	1	0	1	0	1
23	N19	max	0.241	5	835.019	5	0	5	0	7	0	7	0	7
24		min	0.025	1	209.416	1	0	1	0	1	0	1	0	1
25	N39	max	2.609	5	1466.595	5	0	5	0	7	0	7	0	7
26		min	0.153	1	391.19	1	0	1	0	1	0	1	0	1
27	N40	max	2.609	5	1466.595	5	0	4	0	7	0	7	0	7
28		min	0.153	1	391.19	1	0	3	0	1	0	1	0	1
29	N17	max	-0.027	4	0	7	0	4	0	7	0	7	0	7
30		min	-0.253	3	0	1	-0.003	3	0	1	0	1	0	1
31	N24	max	-0.027	4	0	7	0.003	5	0	7	0	7	0	7
32		min	-0.253	3	0	1	0	1	0	1	0	1	0	1
33	N3	max	-0.138	4	0	7	-0.224	4	0	7	0	7	0	7
34		min	-2.452	3	0	1	-1.39	3	0	1	0	1	0	1
35	N12	max	-0.138	4	0	7	1.39	5	0	7	0	7	0	7
36		min	-2.452	3	0	1	0.224	1	0	1	0	1	0	1
37	Totals:	max	0	4	16788.635	5	0	5						
38		min	0	3	3588.635	1	0	6						

Envelope Node Displacements

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
1	N1	max	0	5	-0.004	4	0	4	0	4	0	7	3.262e-5	5
2		min	0	1	-0.024	3	0	3	0	3	0	1	3.853e-6	1
3	N2	max	0	5	-0.004	4	0	4	0	4	0	7	-3.725e-6	4
4		min	0	1	-0.024	3	0	3	-3.452e-8	3	0	1	-3.135e-5	3
5	N3	max	0	5	-0.004	4	0	5	0	4	0	7	2.326e-4	5
6		min	0	1	-0.018	3	0	1	-4.606e-8	3	0	1	2.324e-5	1
7	N4	max	0.057	5	0	4	0	6	1.36e-3	5	-4.218e-4	4	1.015e-3	5
8		min	0.013	1	0	3	0	3	1.986e-4	6	-2.888e-3	3	2.635e-4	1
9	N5	max	0	5	0	4	0	5	2.299e-8	5	0	7	-1.16e-5	4
10		min	0	1	0	3	0	1	0	1	0	1	-1.161e-4	3
11	N6	max	0	4	0	4	0	5	1.723e-8	5	0	7	1.565e-5	5
12		min	0	3	0	3	0	1	0	1	0	1	1.859e-6	1
13	N7	max	0	5	0	4	0	5	0	5	0	7	-1.923e-6	4
14		min	0	1	0	3	0	1	0	1	0	1	-1.628e-5	3
15	N8	max	0	4	0	4	0	5	3.081e-8	5	0	7	1.699e-5	5
16		min	0	3	0	3	0	1	0	1	0	1	1.997e-6	1
17	N9	max	0	4	0	4	0	4	0	4	0	7	1.565e-5	5
18		min	0	3	0	3	0	3	-1.723e-8	3	0	1	1.859e-6	1
19	N10	max	0	5	-0.004	4	0	5	0	5	0	7	3.262e-5	5
20		min	0	1	-0.024	3	0	1	0	1	0	1	3.853e-6	1
21	N11	max	0	5	-0.004	4	0	5	3.452e-8	5	0	7	-3.725e-6	4
22		min	0	1	-0.024	3	0	1	0	1	0	1	-3.135e-5	3
23	N12	max	0	5	-0.004	4	0	4	4.606e-8	5	0	7	2.326e-4	5

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
24		min	0	1	-0.018	3	0	3	0	1	0	1	2.324e-5	1
25	N13	max	0.057	5	0	4	0	5	-1.986e-4	6	2.888e-3	5	1.015e-3	5
26		min	0.013	1	0	3	0	6	-1.36e-3	3	4.218e-4	1	2.635e-4	1
27	N14	max	0	5	0	4	0	4	0	4	0	7	-1.16e-5	4
28		min	0	1	0	3	0	3	-2.299e-8	3	0	1	-1.161e-4	3
29	N15	max	0	5	0	4	0	4	0	4	0	7	-1.923e-6	4
30		min	0	1	0	3	0	3	0	3	0	1	-1.628e-5	3
31	N16	max	0	4	0	4	0	4	0	4	0	7	1.699e-5	5
32		min	0	3	0	3	0	3	-3.081e-8	3	0	1	1.997e-6	1
33	N17	max	0	5	-0.003	4	0	5	0	4	0	7	-3.483e-5	4
34		min	0	1	-0.013	3	0	1	-5.245e-8	3	0	1	-3.307e-4	3
35	N18	max	0	4	0	4	0	5	2.618e-8	5	0	7	1.651e-4	5
36		min	0	3	0	3	0	1	0	1	0	1	1.739e-5	1
37	N19	max	0	4	0	4	0	4	0	4	0	7	1.651e-4	5
38		min	0	3	0	3	0	3	-2.618e-8	3	0	1	1.739e-5	1
39	N20	max	0	5	-0.004	4	0	5	6.173e-8	5	0	7	-4.001e-6	4
40		min	0	1	-0.024	3	0	1	0	1	0	1	-3.403e-5	3
41	N21	max	0	5	-0.004	4	0	4	0	4	0	7	-4.001e-6	4
42		min	0	1	-0.024	3	0	3	-6.173e-8	3	0	1	-3.403e-5	3
43	N22	max	0.002	5	-0.015	4	0	4	-1.663e-3	4	-4.688e-5	4	2.326e-4	5
44		min	0	1	-0.064	3	0	3	-7.089e-3	3	-2.528e-4	3	2.324e-5	1
45	N23	max	0.002	5	-0.015	4	0	5	7.089e-3	5	2.528e-4	5	2.326e-4	5
46		min	0	1	-0.064	3	0	1	1.663e-3	1	4.688e-5	1	2.324e-5	1
47	N24	max	0	5	-0.003	4	0	4	5.245e-8	5	0	7	-3.483e-5	4
48		min	0	1	-0.013	3	0	3	0	1	0	1	-3.307e-4	3
49	N25	max	0.008	5	-0.014	4	0	5	2.665e-3	5	-4.667e-7	4	8.076e-4	5
50		min	0.001	1	-0.057	3	0	1	4.296e-4	1	-2.447e-6	3	1.504e-4	1
51	N26	max	0.008	5	-0.014	4	0	4	-4.296e-4	4	2.447e-6	5	8.076e-4	5
52		min	0.001	1	-0.057	3	0	3	-2.665e-3	3	4.667e-7	1	1.504e-4	1
53	N27	max	0.019	5	-0.011	4	0	5	-4.166e-4	4	2.448e-6	5	1.315e-3	5
54		min	0.004	1	-0.044	3	0	1	-2.609e-3	3	3.921e-7	1	3.005e-4	1
55	N28	max	0.019	5	-0.011	4	0	4	2.609e-3	5	-3.921e-7	4	1.315e-3	5
56		min	0.004	1	-0.044	3	0	3	4.166e-4	1	-2.448e-6	3	3.005e-4	1
57	N29	max	0.035	5	-0.007	4	0	5	-4.166e-4	4	2.431e-6	5	1.445e-3	5
58		min	0.007	1	-0.026	3	0	1	-2.609e-3	3	3.882e-7	1	3.534e-4	1
59	N30	max	0.035	5	-0.007	4	0	4	2.609e-3	5	-3.882e-7	4	1.445e-3	5
60		min	0.007	1	-0.026	3	0	3	4.166e-4	1	-2.431e-6	3	3.534e-4	1
61	N31	max	0.047	5	-0.003	4	0	6	-4.166e-4	4	2.431e-6	5	5.865e-4	5
62		min	0.01	1	-0.011	3	0	3	-2.609e-3	3	3.882e-7	1	1.439e-4	1
63	N32	max	0.047	5	-0.003	4	0	5	2.609e-3	5	-3.882e-7	4	5.865e-4	5
64		min	0.01	1	-0.011	3	0	6	4.166e-4	1	-2.431e-6	3	1.439e-4	1
65	N33	max	0.047	5	-0.003	4	0	6	-4.166e-4	4	2.431e-6	5	-6.201e-5	4
66		min	0.01	1	-0.012	3	0	3	-2.609e-3	3	3.883e-7	1	-2.408e-4	3
67	N34	max	0.047	5	-0.003	4	0	5	2.609e-3	5	-3.883e-7	4	-6.201e-5	4
68		min	0.01	1	-0.012	3	0	6	4.166e-4	1	-2.431e-6	3	-2.408e-4	3
69	N35	max	0.045	5	-0.004	4	0	6	-4.168e-4	4	2.812e-6	5	4.884e-6	6
70		min	0.01	1	-0.015	3	0	3	-2.61e-3	3	4.332e-7	6	-1.953e-5	2
71	N36	max	0.045	5	-0.004	4	0	5	2.61e-3	5	-4.332e-7	6	4.884e-6	6
72		min	0.01	1	-0.015	3	0	6	4.168e-4	1	-2.812e-6	3	-1.953e-5	2
73	N37	max	0.048	5	-0.003	4	0	5	-5.674e-4	4	2.336e-6	5	6.459e-4	5
74		min	0.011	1	-0.011	3	0	1	-3.885e-3	3	3.518e-7	6	1.704e-4	1
75	N38	max	0.048	5	-0.003	4	0	4	3.885e-3	5	-3.518e-7	6	6.459e-4	5
76		min	0.011	1	-0.011	3	0	3	5.674e-4	1	-2.336e-6	3	1.704e-4	1
77	N39	max	0	4	0	4	0	4	0	5	-3.882e-7	4	-2.454e-4	4
78		min	0	3	0	3	0	3	0	6	-2.431e-6	3	-1.113e-3	3

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
79	N40	max	0	4	0	4	0	5	0	6	2.431e-6	5	-2.454e-4	4
80		min	0	3	0	3	0	1	0	3	3.882e-7	1	-1.113e-3	3

Envelope Member Section Forces

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1	M1	1	max	-56.881	4	202.703	7	-0.281	4	2.556	5	0	7	0	7
2			min	-180.382	7	64.774	1	-1.741	3	0.725	1	0	1	0	1
3		2	max	-50.887	4	188.844	5	-0.281	4	2.556	5	-0.093	4	-20.38	4
4			min	-168.706	3	57.924	1	-1.741	3	0.725	1	-0.578	3	-65.027	7
5		3	max	-44.893	4	181.994	5	-0.281	4	2.556	5	-0.186	4	-38.484	4
6			min	-162.712	3	51.074	1	-1.741	3	0.725	1	-1.157	3	-125.465	3
7		4	max	-38.9	4	175.144	5	-0.281	4	2.556	5	-0.28	4	-54.313	4
8			min	-156.719	3	44.224	1	-1.741	3	0.725	1	-1.735	3	-184.785	3
9		5	max	-32.906	4	168.294	5	-0.281	4	2.556	5	-0.373	4	-67.866	4
10			min	-150.725	3	37.374	1	-1.741	3	0.725	1	-2.313	3	-241.828	3
11	M2	1	max	1534.957	5	0.024	5	0	7	0	7	0	7	0	7
12			min	283.932	1	0.003	1	0	1	0	1	0	1	0	1
13		2	max	1533.566	5	0.024	5	0	7	0	7	0	6	-0.005	4
14			min	282.541	1	0.003	1	0	1	0	1	0	3	-0.042	3
15		3	max	1532.175	5	0.024	5	0	7	0	7	0	4	-0.01	4
16			min	281.15	1	0.003	1	0	1	0	1	0	3	-0.083	3
17		4	max	1530.784	5	0.024	5	0	7	0	7	0	4	-0.015	4
18			min	279.759	1	0.003	1	0	1	0	1	0	3	-0.125	3
19		5	max	1529.393	5	0.024	5	0	7	0	7	0	4	-0.02	4
20			min	278.368	1	0.003	1	0	1	0	1	0	3	-0.166	3
21	M3	1	max	1147.923	5	0.169	5	0	7	0	7	0	7	0	7
22			min	246.384	1	0.017	1	0	3	0	1	0	1	0	1
23		2	max	1146.532	5	0.169	5	0	7	0	7	0	4	-0.03	4
24			min	244.993	1	0.017	1	0	3	0	1	0	3	-0.296	3
25		3	max	1145.141	5	0.169	5	0	7	0	7	0	4	-0.059	4
26			min	243.602	1	0.017	1	0	3	0	1	0	3	-0.592	3
27		4	max	1143.75	5	0.169	5	0	7	0	7	0	4	-0.089	4
28			min	242.211	1	0.017	1	0	3	0	1	0	3	-0.888	3
29		5	max	1142.359	5	0.169	5	0	7	0	7	0	4	-0.118	4
30			min	240.82	1	0.017	1	0	3	0	1	0	3	-1.184	3
31	M4	1	max	-56.881	4	202.703	7	1.741	5	-0.725	4	0	7	0	7
32			min	-180.382	7	64.774	1	0.281	1	-2.556	3	0	1	0	1
33		2	max	-50.887	4	188.844	5	1.741	5	-0.725	4	0.578	5	-20.38	4
34			min	-168.706	3	57.924	1	0.281	1	-2.556	3	0.093	1	-65.027	7
35		3	max	-44.893	4	181.994	5	1.741	5	-0.725	4	1.157	5	-38.484	4
36			min	-162.712	3	51.074	1	0.281	1	-2.556	3	0.186	1	-125.465	3
37		4	max	-38.9	4	175.144	5	1.741	5	-0.725	4	1.735	5	-54.313	4
38			min	-156.719	3	44.224	1	0.281	1	-2.556	3	0.28	1	-184.785	3
39		5	max	-32.906	4	168.294	5	1.741	5	-0.725	4	2.313	5	-67.866	4
40			min	-150.725	3	37.374	1	0.281	1	-2.556	3	0.373	1	-241.828	3
41	M5	1	max	1534.957	5	0.024	5	0	7	0	7	0	7	0	7
42			min	283.932	1	0.003	1	0	1	0	1	0	1	0	1
43		2	max	1533.566	5	0.024	5	0	7	0	7	0	5	-0.005	4
44			min	282.541	1	0.003	1	0	1	0	1	0	1	-0.042	3
45		3	max	1532.175	5	0.024	5	0	7	0	7	0	5	-0.01	4
46			min	281.15	1	0.003	1	0	1	0	1	0	1	-0.083	3
47		4	max	1530.784	5	0.024	5	0	7	0	7	0	5	-0.015	4
48			min	279.759	1	0.003	1	0	1	0	1	0	1	-0.125	3
49		5	max	1529.393	5	0.024	5	0	7	0	7	0	5	-0.02	4
50			min	278.368	1	0.003	1	0	1	0	1	0	1	-0.166	3

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
51	M6	1	max	1147.923	5	0.169	5	0	5	0	7	0	7	0	7
52			min	246.384	1	0.017	1	0	1	0	1	0	1	0	1
53		2	max	1146.532	5	0.169	5	0	5	0	7	0	5	-0.03	4
54			min	244.993	1	0.017	1	0	1	0	1	0	1	-0.296	3
55		3	max	1145.141	5	0.169	5	0	5	0	7	0	5	-0.059	4
56			min	243.602	1	0.017	1	0	1	0	1	0	1	-0.592	3
57		4	max	1143.75	5	0.169	5	0	5	0	7	0	5	-0.089	4
58			min	242.211	1	0.017	1	0	1	0	1	0	1	-0.888	3
59		5	max	1142.359	5	0.169	5	0	5	0	7	0	5	-0.118	4
60			min	240.82	1	0.017	1	0	1	0	1	0	1	-1.184	3
61	M7	1	max	0	7	0	7	4.313	7	0	7	0	7	0	7
62			min	0	1	0	1	0	2	0	1	0	1	0	1
63		2	max	0	7	0	7	2.156	7	0	7	4.043	7	0	7
64			min	0	1	0	1	0	2	0	1	0	2	0	1
65		3	max	0	7	0	7	0	7	0	7	5.391	7	0	7
66			min	0	1	0	1	0	1	0	1	0	2	0	1
67		4	max	0	7	0	7	0	2	0	7	4.043	7	0	7
68			min	0	1	0	1	-2.156	1	0	1	0	2	0	1
69		5	max	0	7	0	7	0	2	0	7	0	7	0	7
70			min	0	1	0	1	-4.313	1	0	1	0	1	0	1
71	M8	1	max	0.004	5	0	7	754.313	5	0	5	0	7	0	7
72			min	0	1	0	1	129.312	1	0	1	0	1	0	1
73		2	max	0.004	5	0	7	377.156	5	0	5	707.168	5	0	7
74			min	0	1	0	1	64.656	1	0	1	121.23	1	0	1
75		3	max	0.004	5	0	7	0	7	0	5	942.891	5	0	7
76			min	0	1	0	1	0	1	0	1	161.641	1	0	1
77		4	max	0.004	5	0	7	-64.656	4	0	5	707.168	5	0	7
78			min	0	1	0	1	-377.156	3	0	1	121.23	1	0	1
79		5	max	0.004	5	0	7	-129.312	4	0	5	0	7	0	7
80			min	0	1	0	1	-754.313	3	0	1	0	1	0	1
81	M9	1	max	0	4	0	7	754.313	5	0	6	0	7	0	7
82			min	-0.003	3	0	1	129.312	1	0	3	0	1	0	1
83		2	max	0	4	0	7	377.156	5	0	6	707.168	5	0	7
84			min	-0.003	3	0	1	64.656	1	0	3	121.23	1	0	1
85		3	max	0	4	0	7	0	7	0	6	942.891	5	0	7
86			min	-0.003	3	0	1	0	1	0	3	161.641	1	0	1
87		4	max	0	4	0	7	-64.656	4	0	6	707.168	5	0	7
88			min	-0.003	3	0	1	-377.156	3	0	3	121.23	1	0	1
89		5	max	0	4	0	7	-129.312	4	0	6	0	7	0	7
90			min	-0.003	3	0	1	-754.313	3	0	3	0	1	0	1
91	M10	1	max	0.003	5	0	7	754.312	5	0	7	0	7	0	7
92			min	0	1	0	1	129.312	1	0	1	0	1	0	1
93		2	max	0.003	5	0	7	377.156	5	0	7	707.168	5	0	7
94			min	0	1	0	1	64.656	1	0	1	121.23	1	0	1
95		3	max	0.003	5	0	7	0	7	0	7	942.891	5	0	7
96			min	0	1	0	1	0	1	0	1	161.641	1	0	1
97		4	max	0.003	5	0	7	-64.656	4	0	7	707.168	5	0	7
98			min	0	1	0	1	-377.156	3	0	1	121.23	1	0	1
99		5	max	0.003	5	0	7	-129.312	4	0	7	0	7	0	7
100			min	0	1	0	1	-754.312	3	0	1	0	1	0	1
101	M11	1	max	0.004	5	0	7	754.312	5	0	4	0	7	0	7
102			min	0	1	0	1	129.312	1	0	3	0	1	0	1
103		2	max	0.004	5	0	7	377.156	5	0	4	707.168	5	0	7
104			min	0	1	0	1	64.656	1	0	3	121.23	1	0	1
105		3	max	0.004	5	0	7	0	7	0	4	942.891	5	0	7

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
106			min	0	1	0	1	0	1	0	3	161.641	1	0	1
107		4	max	0.004	5	0	7	-64.656	4	0	4	707.168	5	0	7
108			min	0	1	0	1	-377.156	3	0	3	121.23	1	0	1
109		5	max	0.004	5	0	7	-129.313	4	0	4	0	7	0	7
110			min	0	1	0	1	-754.313	3	0	3	0	1	0	1
111	M12	1	max	0	4	0	7	754.312	5	0	5	0	7	0	7
112			min	-0.003	3	0	1	129.312	1	0	1	0	1	0	1
113		2	max	0	4	0	7	377.156	5	0	5	707.168	5	0	7
114			min	-0.003	3	0	1	64.656	1	0	1	121.23	1	0	1
115		3	max	0	4	0	7	0	7	0	5	942.891	5	0	7
116			min	-0.003	3	0	1	0	1	0	1	161.641	1	0	1
117		4	max	0	4	0	7	-64.656	4	0	5	707.168	5	0	7
118			min	-0.003	3	0	1	-377.156	3	0	1	121.23	1	0	1
119		5	max	0	4	0	7	-129.313	4	0	5	0	7	0	7
120			min	-0.003	3	0	1	-754.313	3	0	1	0	1	0	1
121	M13	1	max	0.003	5	0	7	754.313	5	0	7	0	7	0	7
122			min	0	1	0	1	129.312	1	0	1	0	1	0	1
123		2	max	0.003	5	0	7	377.156	5	0	7	707.168	5	0	7
124			min	0	1	0	1	64.656	1	0	1	121.23	1	0	1
125		3	max	0.003	5	0	7	0	7	0	7	942.891	5	0	7
126			min	0	1	0	1	0	1	0	1	161.641	1	0	1
127		4	max	0.003	5	0	7	-64.656	4	0	7	707.168	5	0	7
128			min	0	1	0	1	-377.156	3	0	1	121.23	1	0	1
129		5	max	0.003	5	0	7	-129.312	4	0	7	0	7	0	7
130			min	0	1	0	1	-754.313	3	0	1	0	1	0	1
131	M14	1	max	0	6	0	7	4.313	7	0	7	0	7	0	7
132			min	0	3	0	1	0	2	0	1	0	1	0	1
133		2	max	0	6	0	7	2.156	7	0	7	4.043	7	0	7
134			min	0	3	0	1	0	2	0	1	0	2	0	1
135		3	max	0	6	0	7	0	7	0	7	5.391	7	0	7
136			min	0	3	0	1	0	1	0	1	0	2	0	1
137		4	max	0	6	0	7	0	2	0	7	4.043	7	0	7
138			min	0	3	0	1	-2.156	1	0	1	0	2	0	1
139		5	max	0	6	0	7	0	2	0	7	0	7	0	7
140			min	0	3	0	1	-4.313	1	0	1	0	1	0	1
141	M15	1	max	0	7	0	7	4.313	7	0	7	0	7	0	7
142			min	0	1	0	1	0	2	0	1	0	1	0	1
143		2	max	0	7	0	7	2.156	7	0	7	4.043	7	0	7
144			min	0	1	0	1	0	2	0	1	0	2	0	1
145		3	max	0	7	0	7	0	7	0	7	5.391	7	0	7
146			min	0	1	0	1	0	1	0	1	0	2	0	1
147		4	max	0	7	0	7	0	2	0	7	4.043	7	0	7
148			min	0	1	0	1	-2.156	1	0	1	0	2	0	1
149		5	max	0	7	0	7	0	2	0	7	0	7	0	7
150			min	0	1	0	1	-4.313	1	0	1	0	1	0	1
151	M16	1	max	-0.224	4	-0.153	4	379.916	5	0	7	0	7	0	7
152			min	-1.393	3	-2.609	3	103.804	1	0	1	0	1	0	1
153		2	max	-0.224	4	-0.153	4	379.7	5	0	7	47.476	5	0.326	5
154			min	-1.393	3	-2.609	3	103.588	1	0	1	12.962	1	0.019	1
155		3	max	-0.224	4	-0.153	4	379.485	5	0	7	94.925	5	0.652	5
156			min	-1.393	3	-2.609	3	103.373	1	0	1	25.897	1	0.038	1
157		4	max	-0.224	4	-0.153	4	379.269	5	0	7	142.347	5	0.979	5
158			min	-1.393	3	-2.609	3	103.157	1	0	1	38.805	1	0.057	1
159		5	max	-0.224	4	-0.153	4	379.053	5	0	7	189.742	5	1.305	5
160			min	-1.393	3	-2.609	3	102.942	1	0	1	51.686	1	0.077	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
161	M17	1	max	835.019	5	-0.025	4	0	6	0	7	0	7	0	7
162			min	209.416	1	-0.241	3	0	3	0	1	0	1	0	1
163		2	max	833.628	5	-0.025	4	0	6	0	7	0	4	0.421	5
164			min	208.025	1	-0.241	3	0	3	0	1	0	3	0.044	1
165		3	max	832.237	5	-0.025	4	0	6	0	7	0	4	0.842	5
166			min	206.634	1	-0.241	3	0	3	0	1	0	3	0.089	1
167		4	max	830.846	5	-0.025	4	0	6	0	7	0	4	1.263	5
168			min	205.243	1	-0.241	3	0	3	0	1	0	3	0.133	1
169		5	max	829.455	5	-0.025	4	0	6	0	7	0	4	1.684	5
170			min	203.852	1	-0.241	3	0	3	0	1	0	3	0.177	1
171	M18	1	max	835.019	5	-0.025	4	0	5	0	7	0	7	0	7
172			min	209.416	1	-0.241	3	0	1	0	1	0	1	0	1
173		2	max	833.628	5	-0.025	4	0	5	0	7	0	5	0.421	5
174			min	208.025	1	-0.241	3	0	1	0	1	0	1	0.044	1
175		3	max	832.237	5	-0.025	4	0	5	0	7	0	5	0.842	5
176			min	206.634	1	-0.241	3	0	1	0	1	0	1	0.089	1
177		4	max	830.846	5	-0.025	4	0	5	0	7	0	5	1.263	5
178			min	205.243	1	-0.241	3	0	1	0	1	0	1	0.133	1
179		5	max	829.455	5	-0.025	4	0	5	0	7	0	5	1.684	5
180			min	203.852	1	-0.241	3	0	1	0	1	0	1	0.177	1
181	M19	1	max	0	7	0	7	66.813	7	0	7	0	7	0	7
182			min	0	1	0	1	0	2	0	1	0	1	0	1
183		2	max	0	7	0	7	33.406	7	0	7	62.637	7	0	7
184			min	0	1	0	1	0	2	0	1	0	2	0	1
185		3	max	0	7	0	7	0	7	0	7	83.516	7	0	7
186			min	0	1	0	1	0	1	0	1	0	2	0	1
187		4	max	0	7	0	7	0	2	0	7	62.637	7	0	7
188			min	0	1	0	1	-33.406	1	0	1	0	2	0	1
189		5	max	0	7	0	7	0	2	0	7	0	7	0	7
190			min	0	1	0	1	-66.813	1	0	1	0	1	0	1
191	M20	1	max	0	4	0	7	754.313	5	0	7	0	7	0	7
192			min	-0.004	3	0	1	129.312	1	0	1	0	1	0	1
193		2	max	0	4	0	7	377.156	5	0	7	707.168	5	0	7
194			min	-0.004	3	0	1	64.656	1	0	1	121.23	1	0	1
195		3	max	0	4	0	7	0	7	0	7	942.891	5	0	7
196			min	-0.004	3	0	1	0	1	0	1	161.641	1	0	1
197		4	max	0	4	0	7	-64.656	4	0	7	707.168	5	0	7
198			min	-0.004	3	0	1	-377.156	3	0	1	121.23	1	0	1
199		5	max	0	4	0	7	-129.312	4	0	7	0	7	0	7
200			min	-0.004	3	0	1	-754.313	3	0	1	0	1	0	1
201	M21	1	max	0	4	0	7	754.313	5	0	7	0	7	0	7
202			min	-0.004	3	0	1	129.313	1	0	1	0	1	0	1
203		2	max	0	4	0	7	377.156	5	0	7	707.168	5	0	7
204			min	-0.004	3	0	1	64.656	1	0	1	121.23	1	0	1
205		3	max	0	4	0	7	0	7	0	7	942.891	5	0	7
206			min	-0.004	3	0	1	0	1	0	1	161.641	1	0	1
207		4	max	0	4	0	7	-64.656	4	0	7	707.168	5	0	7
208			min	-0.004	3	0	1	-377.156	3	0	1	121.23	1	0	1
209		5	max	0	4	0	7	-129.313	4	0	7	0	7	0	7
210			min	-0.004	3	0	1	-754.313	3	0	1	0	1	0	1
211	M22	1	max	0.348	5	0	7	116.738	5	0	7	187.819	5	2.988	5
212			min	0.056	1	0	1	16.738	6	0	1	51.141	1	0.554	1
213		2	max	0.348	5	0	7	58.369	5	0	7	275.372	5	2.988	5
214			min	0.056	1	0	1	8.369	6	0	1	63.694	1	0.554	1
215		3	max	0.348	5	0	7	0	7	0	7	304.556	5	2.988	5

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
216			min	0.056	1	0	1	0	1	0	1	67.878	1	0.554	1
217		4	max	0.348	5	0	7	-8.369	4	0	7	275.372	5	2.988	5
218			min	0.056	1	0	1	-58.369	3	0	1	63.694	1	0.554	1
219		5	max	0.348	5	0	7	-16.738	4	0	7	187.819	5	2.988	5
220			min	0.056	1	0	1	-116.738	3	0	1	51.141	1	0.554	1
221	M23	1	max	15.193	2	24.118	6	-1.105	4	0.034	5	4.591	5	-67.866	4
222			min	-21.673	6	-19.63	2	-6.886	3	0.008	1	0.738	1	-241.828	3
223		2	max	15.193	2	7.861	6	-1.105	4	0.034	5	2.304	5	-69.641	4
224			min	-7.448	6	-19.63	2	-6.886	3	0.008	1	0.371	1	-237.084	3
225		3	max	17.992	5	-4.932	4	-1.105	4	0.034	5	0.016	5	-69.14	4
226			min	4.111	1	-24.556	3	-6.886	3	0.008	1	0.004	1	-230.065	3
227		4	max	28.594	7	-11.782	4	-1.105	4	0.034	5	-0.363	4	-66.364	4
228			min	10.104	1	-36.151	7	-6.886	3	0.008	1	-2.271	3	-220.769	3
229		5	max	40.761	7	-18.632	4	-1.105	4	0.034	5	-0.73	4	-61.313	4
230			min	15.193	2	-50.057	7	-6.886	3	0.008	1	-4.559	3	-209.199	3
231	M24	1	max	1532.536	5	-0.003	4	0	6	0	7	0	7	0	7
232			min	283.68	1	-0.025	3	0	3	0	1	0	1	0	1
233		2	max	1531.145	5	-0.003	4	0	6	0	7	0	4	0.043	5
234			min	282.289	1	-0.025	3	0	3	0	1	0	3	0.005	1
235		3	max	1529.753	5	-0.003	4	0	6	0	7	0	4	0.087	5
236			min	280.898	1	-0.025	3	0	3	0	1	0	3	0.01	1
237		4	max	1528.362	5	-0.003	4	0	6	0	7	0	4	0.13	5
238			min	279.507	1	-0.025	3	0	3	0	1	0	3	0.015	1
239		5	max	1526.971	5	-0.003	4	0	6	0	7	0	4	0.173	5
240			min	278.116	1	-0.025	3	0	3	0	1	0	3	0.02	1
241	M25	1	max	1532.802	5	-0.003	4	0	7	0	7	0	7	0	7
242			min	283.712	1	-0.023	3	0	1	0	1	0	1	0	1
243		2	max	1531.411	5	-0.003	4	0	7	0	7	0	4	0.04	5
244			min	282.321	1	-0.023	3	0	1	0	1	0	3	0.005	1
245		3	max	1530.02	5	-0.003	4	0	7	0	7	0	4	0.08	5
246			min	280.93	1	-0.023	3	0	1	0	1	0	3	0.009	1
247		4	max	1528.629	5	-0.003	4	0	7	0	7	0	4	0.12	5
248			min	279.539	1	-0.023	3	0	1	0	1	0	3	0.014	1
249		5	max	1527.238	5	-0.003	4	0	7	0	7	0	4	0.16	5
250			min	278.148	1	-0.023	3	0	1	0	1	0	3	0.019	1
251	M26	1	max	15.193	2	24.118	6	6.886	5	-0.008	4	-0.738	4	-67.866	4
252			min	-21.673	6	-19.63	2	1.105	1	-0.034	3	-4.591	3	-241.828	3
253		2	max	15.193	2	7.861	6	6.886	5	-0.008	4	-0.371	4	-69.641	4
254			min	-7.448	6	-19.63	2	1.105	1	-0.034	3	-2.304	3	-237.084	3
255		3	max	17.992	5	-4.932	4	6.886	5	-0.008	4	-0.004	4	-69.14	4
256			min	4.111	1	-24.556	3	1.105	1	-0.034	3	-0.016	3	-230.065	3
257		4	max	28.594	7	-11.782	4	6.886	5	-0.008	4	2.271	5	-66.364	4
258			min	10.104	1	-36.151	7	1.105	1	-0.034	3	0.363	1	-220.769	3
259		5	max	40.761	7	-18.632	4	6.886	5	-0.008	4	4.559	5	-61.313	4
260			min	15.193	2	-50.057	7	1.105	1	-0.034	3	0.73	1	-209.199	3
261	M27	1	max	1532.536	5	-0.003	4	0	5	0	7	0	7	0	7
262			min	283.68	1	-0.025	3	0	1	0	1	0	1	0	1
263		2	max	1531.145	5	-0.003	4	0	5	0	7	0	5	0.043	5
264			min	282.289	1	-0.025	3	0	1	0	1	0	1	0.005	1
265		3	max	1529.753	5	-0.003	4	0	5	0	7	0	5	0.087	5
266			min	280.898	1	-0.025	3	0	1	0	1	0	1	0.01	1
267		4	max	1528.362	5	-0.003	4	0	5	0	7	0	5	0.13	5
268			min	279.507	1	-0.025	3	0	1	0	1	0	1	0.015	1
269		5	max	1526.971	5	-0.003	4	0	5	0	7	0	5	0.173	5
270			min	278.116	1	-0.025	3	0	1	0	1	0	1	0.02	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
271	M28	1	max	1532.802	5	-0.003	4	0	7	0	7	0	7	0	7
272			min	283.712	1	-0.023	3	0	1	0	1	0	1	0	1
273		2	max	1531.411	5	-0.003	4	0	7	0	7	0	5	0.04	5
274			min	282.321	1	-0.023	3	0	1	0	1	0	1	0.005	1
275		3	max	1530.02	5	-0.003	4	0	7	0	7	0	5	0.08	5
276			min	280.93	1	-0.023	3	0	1	0	1	0	1	0.009	1
277		4	max	1528.629	5	-0.003	4	0	7	0	7	0	5	0.12	5
278			min	279.539	1	-0.023	3	0	1	0	1	0	1	0.014	1
279		5	max	1527.238	5	-0.003	4	0	7	0	7	0	5	0.16	5
280			min	278.148	1	-0.023	3	0	1	0	1	0	1	0.019	1
281	M29	1	max	-0.224	4	2.609	5	-102.942	4	0	7	189.742	5	1.305	5
282			min	-1.393	3	0.153	1	-379.053	3	0	1	51.686	1	0.077	1
283		2	max	-0.224	4	2.609	5	-103.157	4	0	7	142.347	5	0.979	5
284			min	-1.393	3	0.153	1	-379.269	3	0	1	38.805	1	0.057	1
285		3	max	-0.224	4	2.609	5	-103.373	4	0	7	94.925	5	0.652	5
286			min	-1.393	3	0.153	1	-379.485	3	0	1	25.897	1	0.038	1
287		4	max	-0.224	4	2.609	5	-103.588	4	0	7	47.476	5	0.326	5
288			min	-1.393	3	0.153	1	-379.7	3	0	1	12.962	1	0.019	1
289		5	max	-0.224	4	2.609	5	-103.804	4	0	7	0	7	0	7
290			min	-1.393	3	0.153	1	-379.916	3	0	1	0	1	0	1
291	M30	1	max	186.71	5	-47.265	4	6.813	5	0	4	-0.723	4	-61.313	4
292			min	41.127	1	-217.813	3	1.088	1	0	3	-4.526	3	-209.199	3
293		2	max	192.704	5	-54.115	4	6.813	5	0	4	-0.361	4	-44.474	4
294			min	47.121	1	-224.663	3	1.088	1	0	3	-2.263	3	-136.762	7
295		3	max	198.697	5	-60.965	4	6.813	5	0	4	0	4	-25.36	4
296			min	53.114	1	-231.513	3	1.088	1	0	3	0	3	-66.074	7
297		4	max	204.691	5	-67.815	4	6.813	5	0	4	2.263	5	21.943	2
298			min	59.108	1	-238.363	3	1.088	1	0	3	0.361	1	-8.451	6
299		5	max	213.234	7	-74.665	4	6.813	5	0	4	4.526	5	98.429	5
300			min	65.102	1	-247.558	7	1.088	1	0	3	0.723	1	19.695	1
301	M31	1	max	186.71	5	-47.265	4	-1.088	4	0	5	4.526	5	-61.313	4
302			min	41.127	1	-217.813	3	-6.813	3	0	1	0.723	1	-209.199	3
303		2	max	192.704	5	-54.115	4	-1.088	4	0	5	2.263	5	-44.474	4
304			min	47.121	1	-224.663	3	-6.813	3	0	1	0.361	1	-136.762	7
305		3	max	198.697	5	-60.965	4	-1.088	4	0	5	0	5	-25.36	4
306			min	53.114	1	-231.513	3	-6.813	3	0	1	0	1	-66.074	7
307		4	max	204.691	5	-67.815	4	-1.088	4	0	5	-0.361	4	21.943	2
308			min	59.108	1	-238.363	3	-6.813	3	0	1	-2.263	3	-8.451	6
309		5	max	213.234	7	-74.665	4	-1.088	4	0	5	-0.723	4	98.429	5
310			min	65.102	1	-247.558	7	-6.813	3	0	1	-4.526	3	19.695	1
311	M32	1	max	367.415	5	-103.287	4	6.813	5	0	7	-0.723	4	98.429	5
312			min	90.131	1	-424.588	3	1.088	1	0	1	-4.526	3	19.695	1
313		2	max	373.408	5	-110.137	4	6.813	5	0	7	-0.361	4	240.611	5
314			min	96.125	1	-431.438	3	1.088	1	0	1	-2.263	3	55.144	1
315		3	max	379.402	5	-116.987	4	6.813	5	0	7	0	7	385.07	5
316			min	102.118	1	-438.288	3	1.088	1	0	1	0	1	92.869	1
317		4	max	385.396	5	-123.837	4	6.813	5	0	7	2.263	5	531.803	5
318			min	108.112	1	-445.138	3	1.088	1	0	1	0.361	1	132.869	1
319		5	max	391.39	5	-130.687	4	6.813	5	0	7	4.526	5	680.812	5
320			min	114.106	1	-451.988	3	1.088	1	0	1	0.723	1	175.144	1
321	M33	1	max	367.415	5	-103.287	4	-1.088	4	0	7	4.526	5	98.429	5
322			min	90.131	1	-424.588	3	-6.813	3	0	1	0.723	1	19.695	1
323		2	max	373.408	5	-110.137	4	-1.088	4	0	7	2.263	5	240.611	5
324			min	96.125	1	-431.438	3	-6.813	3	0	1	0.361	1	55.144	1
325		3	max	379.402	5	-116.987	4	-1.088	4	0	7	0	7	385.07	5

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
326			min	102.118	1	-438.288	3	-6.813	3	0	1	0	1	92.869	1
327		4	max	385.396	5	-123.837	4	-1.088	4	0	7	-0.361	4	531.803	5
328			min	108.112	1	-445.138	3	-6.813	3	0	1	-2.263	3	132.869	1
329		5	max	391.39	5	-130.687	4	-1.088	4	0	7	-0.723	4	680.812	5
330			min	114.106	1	-451.988	3	-6.813	3	0	1	-4.526	3	175.144	1
331	M34	1	max	-116.519	4	472.965	5	6.813	5	0	5	-0.723	4	680.812	5
332			min	-413.844	3	133.164	1	1.088	1	0	1	-4.526	3	175.144	1
333		2	max	-110.525	4	466.115	5	6.813	5	0	5	-0.361	4	524.835	5
334			min	-407.851	3	126.314	1	1.088	1	0	1	-2.263	3	132.046	1
335		3	max	-104.531	4	459.265	5	6.813	5	0	5	0	7	371.133	5
336			min	-401.857	3	119.464	1	1.088	1	0	1	0	1	91.223	1
337		4	max	-98.537	4	452.415	5	6.813	5	0	5	2.263	5	219.707	5
338			min	-395.863	3	112.614	1	1.088	1	0	1	0.361	1	52.676	1
339		5	max	-92.544	4	445.565	5	6.813	5	0	5	4.526	5	70.556	5
340			min	-389.869	3	105.764	1	1.088	1	0	1	0.723	1	16.404	1
341	M35	1	max	-116.519	4	472.965	5	-1.088	4	0	6	4.526	5	680.812	5
342			min	-413.844	3	133.164	1	-6.813	3	0	3	0.723	1	175.144	1
343		2	max	-110.525	4	466.115	5	-1.088	4	0	6	2.263	5	524.835	5
344			min	-407.851	3	126.314	1	-6.813	3	0	3	0.361	1	132.046	1
345		3	max	-104.531	4	459.265	5	-1.088	4	0	6	0	7	371.133	5
346			min	-401.857	3	119.464	1	-6.813	3	0	3	0	1	91.223	1
347		4	max	-98.537	4	452.415	5	-1.088	4	0	6	-0.361	4	219.707	5
348			min	-395.863	3	112.614	1	-6.813	3	0	3	-2.263	3	52.676	1
349		5	max	-92.544	4	445.565	5	-1.088	4	0	6	-0.723	4	70.556	5
350			min	-389.869	3	105.764	1	-6.813	3	0	3	-4.526	3	16.404	1
351	M36	1	max	-67.515	4	266.445	5	6.814	5	0.001	5	-0.723	4	70.556	5
352			min	-233.139	3	77.16	1	1.088	1	0	1	-4.527	3	16.404	1
353		2	max	-61.521	4	259.595	5	6.814	5	0.001	5	-0.361	4	-8.09	4
354			min	-227.146	3	70.31	1	1.088	1	0	1	-2.263	3	-17.923	7
355		3	max	-55.527	4	252.745	5	6.814	5	0.001	5	0	5	-30.308	4
356			min	-221.152	3	63.46	1	1.088	1	0	1	0	1	-101.915	3
357		4	max	-49.533	4	245.895	5	6.814	5	0.001	5	2.264	5	-50.251	4
358			min	-215.158	3	56.61	1	1.088	1	0	1	0.362	1	-184.737	3
359		5	max	-43.54	4	239.045	5	6.814	5	0.001	5	4.528	5	-67.919	4
360			min	-209.164	3	49.76	1	1.088	1	0	1	0.723	1	-265.284	3
361	M37	1	max	-67.515	4	266.445	5	-1.088	4	0	4	4.527	5	70.556	5
362			min	-233.139	3	77.16	1	-6.814	3	-0.001	3	0.723	1	16.404	1
363		2	max	-61.521	4	259.595	5	-1.088	4	0	4	2.263	5	-8.09	4
364			min	-227.146	3	70.31	1	-6.814	3	-0.001	3	0.361	1	-17.923	7
365		3	max	-55.527	4	252.745	5	-1.088	4	0	4	0	4	-30.308	4
366			min	-221.152	3	63.46	1	-6.814	3	-0.001	3	0	3	-101.915	3
367		4	max	-49.533	4	245.895	5	-1.088	4	0	4	-0.362	4	-50.251	4
368			min	-215.158	3	56.61	1	-6.814	3	-0.001	3	-2.264	3	-184.737	3
369		5	max	-43.54	4	239.045	5	-1.088	4	0	4	-0.723	4	-67.919	4
370			min	-209.164	3	49.76	1	-6.814	3	-0.001	3	-4.528	3	-265.284	3
371	M38	1	max	-18.511	4	66.982	7	8.482	5	0.776	5	-0.81	6	-67.919	4
372			min	-58.609	7	21.155	1	1.285	6	0.092	6	-5.266	3	-265.284	3
373		2	max	-12.517	4	53.077	7	8.482	5	0.776	5	-0.383	6	-73.808	4
374			min	-46.442	7	14.305	1	1.285	6	0.092	6	-2.448	3	-284.053	3
375		3	max	-6.523	4	46.225	5	8.482	5	0.776	5	0.369	5	-77.423	4
376			min	-40.447	3	7.455	1	1.285	6	0.092	6	0.044	6	-300.546	3
377		4	max	4.634	6	39.375	5	8.482	5	0.776	5	3.187	5	-78.761	4
378			min	-34.453	3	-5.296	6	1.285	6	0.092	6	0.471	6	-314.764	3
379		5	max	18.859	6	38.639	2	8.482	5	0.776	5	6.005	5	-77.825	4
380			min	-33.809	2	-21.554	6	1.285	6	0.092	6	0.897	6	-326.706	3

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
381	M39	1	max	-18.511	4	66.982	7	-1.285	6	-0.092	6	5.266	5	-67.919	4
382			min	-58.609	7	21.155	1	-8.482	3	-0.776	3	0.81	6	-265.284	3
383		2	max	-12.517	4	53.077	7	-1.285	6	-0.092	6	2.448	5	-73.808	4
384			min	-46.442	7	14.305	1	-8.482	3	-0.776	3	0.383	6	-284.053	3
385		3	max	-6.523	4	46.225	5	-1.285	6	-0.092	6	-0.044	6	-77.423	4
386			min	-40.447	3	7.455	1	-8.482	3	-0.776	3	-0.369	3	-300.546	3
387		4	max	4.634	6	39.375	5	-1.285	6	-0.092	6	-0.471	6	-78.761	4
388			min	-34.453	3	-5.296	6	-8.482	3	-0.776	3	-3.187	3	-314.764	3
389		5	max	18.859	6	38.639	2	-1.285	6	-0.092	6	-0.897	6	-77.825	4
390			min	-33.809	2	-21.554	6	-8.482	3	-0.776	3	-6.005	3	-326.706	3
391	M40	1	max	202.871	5	-44.869	4	2.539	5	0	7	-0.493	4	-77.825	4
392			min	39.243	1	-232.172	3	0.371	1	0	1	-3.374	3	-326.706	3
393		2	max	208.864	5	-51.719	4	2.539	5	0	7	-0.369	4	-61.782	4
394			min	45.237	1	-239.022	3	0.371	1	0	1	-2.53	3	-248.443	3
395		3	max	214.858	5	-58.569	4	2.539	5	0	7	-0.246	4	-43.463	4
396			min	51.231	1	-245.872	3	0.371	1	0	1	-1.687	3	-167.904	3
397		4	max	220.852	5	-65.419	4	2.539	5	0	7	-0.123	4	-22.869	4
398			min	57.224	1	-252.722	3	0.371	1	0	1	-0.843	3	-85.09	3
399		5	max	226.846	5	-72.269	4	2.539	5	0	7	0	7	0	7
400			min	63.218	1	-259.572	3	0.371	1	0	1	0	1	0	1
401	M41	1	max	202.871	5	-44.869	4	-0.371	4	0	7	3.374	5	-77.825	4
402			min	39.243	1	-232.172	3	-2.539	3	0	1	0.493	1	-326.706	3
403		2	max	208.864	5	-51.719	4	-0.371	4	0	7	2.53	5	-61.782	4
404			min	45.237	1	-239.022	3	-2.539	3	0	1	0.369	1	-248.443	3
405		3	max	214.858	5	-58.569	4	-0.371	4	0	7	1.687	5	-43.463	4
406			min	51.231	1	-245.872	3	-2.539	3	0	1	0.246	1	-167.904	3
407		4	max	220.852	5	-65.419	4	-0.371	4	0	7	0.843	5	-22.869	4
408			min	57.224	1	-252.722	3	-2.539	3	0	1	0.123	1	-85.09	3
409		5	max	226.846	5	-72.269	4	-0.371	4	0	7	0	7	0	7
410			min	63.218	1	-259.572	3	-2.539	3	0	1	0	1	0	1
411	M42	1	max	5.145	5	0	7	-38.009	4	0	7	2.649	5	-1.308	4
412			min	0.824	1	0	1	-238.009	3	0	1	-0.203	6	-6.857	3
413		2	max	5.145	5	0	7	-19.004	4	0	7	-28.315	4	-1.308	4
414			min	0.824	1	0	1	-119.004	3	0	1	-175.857	3	-6.857	3
415		3	max	5.145	5	0	7	0	7	0	7	-37.817	4	-1.308	4
416			min	0.824	1	0	1	0	1	0	1	-235.36	3	-6.857	3
417		4	max	5.145	5	0	7	119.004	5	0	7	-28.315	4	-1.308	4
418			min	0.824	1	0	1	19.004	6	0	1	-175.857	3	-6.857	3
419		5	max	5.145	5	0	7	238.009	5	0	7	2.649	5	-1.308	4
420			min	0.824	1	0	1	38.009	6	0	1	-0.203	6	-6.857	3
421	M43	1	max	-0.017	4	0	7	-38.009	6	0	7	5.957	5	-1.099	4
422			min	-0.073	3	0	1	-238.009	3	0	1	0.95	6	-6.86	3
423		2	max	-0.017	4	0	7	-19.004	6	0	7	-27.556	4	-1.099	4
424			min	-0.073	3	0	1	-119.004	3	0	1	-172.55	3	-6.86	3
425		3	max	-0.017	4	0	7	0	7	0	7	-37.058	4	-1.099	4
426			min	-0.073	3	0	1	0	1	0	1	-232.052	3	-6.86	3
427		4	max	-0.017	4	0	7	119.004	5	0	7	-27.556	4	-1.099	4
428			min	-0.073	3	0	1	19.004	1	0	1	-172.55	3	-6.86	3
429		5	max	-0.017	4	0	7	238.009	5	0	7	5.957	5	-1.099	4
430			min	-0.073	3	0	1	38.009	1	0	1	0.95	6	-6.86	3
431	M44	1	max	0	4	0	7	-38.009	6	0	7	5.961	5	-1.088	4
432			min	0	3	0	1	-238.009	3	0	1	0.952	6	-6.813	3
433		2	max	0	4	0	7	-19.004	6	0	7	-27.555	4	-1.088	4
434			min	0	3	0	1	-119.004	3	0	1	-172.545	3	-6.813	3
435		3	max	0	4	0	7	0	7	0	7	-37.057	4	-1.088	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
436			min	0	3	0	1	0	1	0	1	-232.048	3	-6.813	3
437		4	max	0	4	0	7	119.004	5	0	7	-27.555	4	-1.088	4
438			min	0	3	0	1	19.004	1	0	1	-172.545	3	-6.813	3
439		5	max	0	4	0	7	238.009	5	0	7	5.961	5	-1.088	4
440			min	0	3	0	1	38.009	1	0	1	0.952	6	-6.813	3
441	M45	1	max	0	7	0	7	-38.009	6	0	7	5.961	5	-1.088	4
442			min	0	1	0	1	-238.009	3	0	1	0.952	6	-6.813	3
443		2	max	0	7	0	7	-19.004	6	0	7	-27.555	4	-1.088	4
444			min	0	1	0	1	-119.004	3	0	1	-172.545	3	-6.813	3
445		3	max	0	7	0	7	0	7	0	7	-37.057	4	-1.088	4
446			min	0	1	0	1	0	1	0	1	-232.048	3	-6.813	3
447		4	max	0	7	0	7	119.004	5	0	7	-27.555	4	-1.088	4
448			min	0	1	0	1	19.004	1	0	1	-172.545	3	-6.813	3
449		5	max	0	7	0	7	238.009	5	0	7	5.961	5	-1.088	4
450			min	0	1	0	1	38.009	1	0	1	0.952	6	-6.813	3
451	M46	1	max	0.002	5	0	7	-38.009	6	0	7	5.961	5	-1.088	4
452			min	0	6	0	1	-238.009	3	0	1	0.952	6	-6.814	3
453		2	max	0.002	5	0	7	-19.004	6	0	7	-27.555	4	-1.088	4
454			min	0	6	0	1	-119.004	3	0	1	-172.546	3	-6.814	3
455		3	max	0.002	5	0	7	0	7	0	7	-37.057	4	-1.088	4
456			min	0	6	0	1	0	1	0	1	-232.048	3	-6.814	3
457		4	max	0.002	5	0	7	119.004	5	0	7	-27.555	4	-1.088	4
458			min	0	6	0	1	19.004	1	0	1	-172.546	3	-6.814	3
459		5	max	0.002	5	0	7	238.009	5	0	7	5.961	5	-1.088	4
460			min	0	6	0	1	38.009	1	0	1	0.952	6	-6.814	3
461	M47	1	max	1.667	5	0	7	-38.009	6	0	7	5.866	5	-1.214	6
462			min	0.197	6	0	1	-238.009	3	0	1	0.941	6	-7.88	3
463		2	max	1.667	5	0	7	-19.004	6	0	7	-27.566	4	-1.214	6
464			min	0.197	6	0	1	-119.004	3	0	1	-172.64	3	-7.88	3
465		3	max	1.667	5	0	7	0	7	0	7	-37.068	4	-1.214	6
466			min	0.197	6	0	1	0	1	0	1	-232.142	3	-7.88	3
467		4	max	1.667	5	0	7	119.004	5	0	7	-27.566	4	-1.214	6
468			min	0.197	6	0	1	19.004	1	0	1	-172.64	3	-7.88	3
469		5	max	1.667	5	0	7	238.009	5	0	7	5.866	5	-1.214	6
470			min	0.197	6	0	1	38.009	1	0	1	0.941	6	-7.88	3
471	M48	1	max	-0.914	4	0	7	-51.296	6	0	7	6.759	5	-0.986	6
472			min	-5.943	3	0	1	-351.296	3	0	1	0.984	6	-6.547	3
473		2	max	-0.914	4	0	7	-25.648	6	0	7	-37.488	4	-0.986	6
474			min	-5.943	3	0	1	-175.648	3	0	1	-256.713	3	-6.547	3
475		3	max	-0.914	4	0	7	0	7	0	7	-50.312	4	-0.986	6
476			min	-5.943	3	0	1	0	1	0	1	-344.537	3	-6.547	3
477		4	max	-0.914	4	0	7	175.648	5	0	7	-37.488	4	-0.986	6
478			min	-5.943	3	0	1	25.648	1	0	1	-256.713	3	-6.547	3
479		5	max	-0.914	4	0	7	351.296	5	0	7	6.759	5	-0.986	6
480			min	-5.943	3	0	1	51.296	1	0	1	0.984	6	-6.547	3
481	M49	1	max	1466.595	5	0	7	0	7	0	7	0	7	0	7
482			min	391.19	1	0	1	0	1	0	1	0	1	0	1
483		2	max	1465.899	5	0	7	0	7	0	7	0	7	0	7
484			min	390.495	1	0	1	0	1	0	1	0	1	0	1
485		3	max	1465.204	5	0	7	0	7	0	7	0	7	0	7
486			min	389.799	1	0	1	0	1	0	1	0	1	0	1
487		4	max	1464.508	5	0	7	0	7	0	7	0	7	0	7
488			min	389.104	1	0	1	0	1	0	1	0	1	0	1
489		5	max	1463.813	5	0	7	0	7	0	7	0	7	0	7
490			min	388.408	1	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
491	M50	1	max	1466.595	5	0	7	0	7	0	7	0	7	0	7
492			min	391.19	1	0	1	0	1	0	1	0	1	0	1
493		2	max	1465.899	5	0	7	0	7	0	7	0	7	0	7
494			min	390.495	1	0	1	0	1	0	1	0	1	0	1
495		3	max	1465.204	5	0	7	0	7	0	7	0	7	0	7
496			min	389.799	1	0	1	0	1	0	1	0	1	0	1
497		4	max	1464.508	5	0	7	0	7	0	7	0	7	0	7
498			min	389.104	1	0	1	0	1	0	1	0	1	0	1
499		5	max	1463.813	5	0	7	0	7	0	7	0	7	0	7
500			min	388.408	1	0	1	0	1	0	1	0	1	0	1

Envelope Maximum Member Section Forces

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
1	M1	max	-32.906	1.329	4	202.703	0	7	-0.281	1.329	4	2.556	1.329	5	0	0	7	0	0	7
2		min	-180.382	0	7	37.374	1.329	1	-1.741	0	3	0.725	0	1	-2.313	1.329	3	-241.828	1.329	3
3	M2	max	1534.957	0	5	0.024	7	5	0	7	7	0	7	7	0	7	4	0	0	7
4		min	278.368	7	1	0.003	0	1	0	0	1	0	0	1	0	7	3	-0.166	7	3
5	M3	max	1147.923	0	5	0.169	7	5	0	7	7	0	7	7	0	0.729	4	0	0	7
6		min	240.82	7	1	0.017	0	1	0	0	3	0	0	1	0	7	3	-1.184	7	3
7	M4	max	-32.906	1.329	4	202.703	0	7	1.741	1.329	5	-0.725	1.329	4	2.313	1.329	5	0	0	7
8		min	-180.382	0	7	37.374	1.329	1	0.281	0	1	-2.556	0	3	0	0	1	-241.828	1.329	3
9	M5	max	1534.957	0	5	0.024	7	5	0	7	7	0	7	7	0	7	5	0	0	7
10		min	278.368	7	1	0.003	0	1	0	0	1	0	0	1	0	0	1	-0.166	7	3
11	M6	max	1147.923	0	5	0.169	7	5	0	7	5	0	7	7	0	7	5	0	0	7
12		min	240.82	7	1	0.017	0	1	0	0	1	0	0	1	0	0	1	-1.184	7	3
13	M7	max	0	5	7	0	5	7	4.313	0	7	0	5	7	5.391	2.5	7	0	5	7
14		min	0	0	1	0	0	1	-4.313	5	1	0	0	1	0	0	1	0	0	1
15	M8	max	0.004	5	5	0	5	7	754.313	0	5	0	5	5	942.891	2.5	5	0	5	7
16		min	0	0	1	0	0	1	-754.313	5	3	0	0	1	0	0	1	0	0	1
17	M9	max	0	5	4	0	5	7	754.313	0	5	0	5	6	942.891	2.5	5	0	5	7
18		min	-0.003	0	3	0	0	1	-754.313	5	3	0	0	3	0	0	1	0	0	1
19	M10	max	0.003	5	5	0	5	7	754.312	0	5	0	5	7	942.891	2.5	5	0	5	7
20		min	0	0	1	0	0	1	-754.312	5	3	0	0	1	0	0	1	0	0	1
21	M11	max	0.004	5	5	0	5	7	754.312	0	5	0	5	4	942.891	2.5	5	0	5	7
22		min	0	0	1	0	0	1	-754.313	5	3	0	0	3	0	0	1	0	0	1
23	M12	max	0	5	4	0	5	7	754.312	0	5	0	5	5	942.891	2.5	5	0	5	7
24		min	-0.003	0	3	0	0	1	-754.313	5	3	0	0	1	0	0	1	0	0	1
25	M13	max	0.003	5	5	0	5	7	754.313	0	5	0	5	7	942.891	2.5	5	0	5	7
26		min	0	0	1	0	0	1	-754.313	5	3	0	0	1	0	0	1	0	0	1
27	M14	max	0	5	6	0	5	7	4.313	0	7	0	5	7	5.391	2.5	7	0	5	7
28		min	0	0	3	0	0	1	-4.313	5	1	0	0	1	0	0	1	0	0	1
29	M15	max	0	5	7	0	5	7	4.313	0	7	0	5	7	5.391	2.5	7	0	5	7
30		min	0	0	1	0	0	1	-4.313	5	1	0	0	1	0	0	1	0	0	1
31	M16	max	-0.224	0.5	4	-0.153	0.5	4	379.916	0	5	0	0.5	7	189.742	0.5	5	1.305	0.5	5
32		min	-1.393	0	3	-2.609	0	3	102.942	0.5	1	0	0	1	0	0	1	0	0	1
33	M17	max	835.019	0	5	-0.025	7	4	0	7	6	0	7	7	0	0.656	4	1.684	7	5
34		min	203.852	7	1	-0.241	0	3	0	0	3	0	0	1	0	7	3	0	0	1
35	M18	max	835.019	0	5	-0.025	7	4	0	7	5	0	7	7	0	7	5	1.684	7	5
36		min	203.852	7	1	-0.241	0	3	0	0	1	0	0	1	0	0	1	0	0	1
37	M19	max	0	5	7	0	5	7	66.813	0	7	0	5	7	83.516	2.5	7	0	5	7
38		min	0	0	1	0	0	1	-66.813	5	1	0	0	1	0	0	1	0	0	1
39	M20	max	0	5	4	0	5	7	754.313	0	5	0	5	7	942.891	2.5	5	0	5	7
40		min	-0.004	0	3	0	0	1	-754.313	5	3	0	0	1	0	0	1	0	0	1
41	M21	max	0	5	4	0	5	7	754.313	0	5	0	5	7	942.891	2.5	5	0	5	7
42		min	-0.004	0	3	0	0	1	-754.313	5	3	0	0	1	0	0	1	0	0	1

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
43	M22	max	0.348	4	5	0	4	7	116.738	0	5	0	4	7	304.556	2	5	2.988	4	5
44		min	0.056	0	1	0	0	1	-116.738	4	3	0	0	1	51.141	4	1	0.554	0	1
45	M23	max	40.761	1.329	7	24.118	0	6	-1.105	1.329	4	0.034	1.329	5	4.591	0	5	-61.313	1.329	4
46		min	-21.673	0	6	-50.057	1.329	7	-6.886	0	3	0.008	0	1	-4.559	1.329	3	-241.828	0	3
47	M24	max	1532.536	0	5	-0.003	7	4	0	7	6	0	7	7	0	0.51	4	0.173	7	5
48		min	278.116	7	1	-0.025	0	3	0	0	3	0	0	1	0	7	3	0	0	1
49	M25	max	1532.802	0	5	-0.003	7	4	0	7	7	0	7	7	0	1.021	4	0.16	7	5
50		min	278.148	7	1	-0.023	0	3	0	0	1	0	0	1	0	7	3	0	0	1
51	M26	max	40.761	1.329	7	24.118	0	6	6.886	1.329	5	-0.008	1.329	4	4.559	1.329	5	-61.313	1.329	4
52		min	-21.673	0	6	-50.057	1.329	7	1.105	0	1	-0.034	0	3	-4.591	0	3	-241.828	0	3
53	M27	max	1532.536	0	5	-0.003	7	4	0	7	5	0	7	7	0	7	5	0.173	7	5
54		min	278.116	7	1	-0.025	0	3	0	0	1	0	0	1	0	0	1	0	0	1
55	M28	max	1532.802	0	5	-0.003	7	4	0	7	7	0	7	7	0	7	5	0.16	7	5
56		min	278.148	7	1	-0.023	0	3	0	0	1	0	0	1	0	0	1	0	0	1
57	M29	max	-0.224	0.5	4	2.609	0.5	5	-102.942	0	4	0	0.5	7	189.742	0	5	1.305	0	5
58		min	-1.393	0	3	0.153	0	1	-379.916	0.5	3	0	0	1	0	0.5	1	0	0.5	1
59	M30	max	213.234	1.329	7	-47.265	0	4	6.813	1.329	5	0	1.329	4	4.526	1.329	5	98.429	1.329	5
60		min	41.127	0	1	-247.558	1.329	7	1.088	0	1	0	0	3	-4.526	0	3	-209.199	0	3
61	M31	max	213.234	1.329	7	-47.265	0	4	-1.088	1.329	4	0	1.329	5	4.526	0	5	98.429	1.329	5
62		min	41.127	0	1	-247.558	1.329	7	-6.813	0	3	0	0	1	-4.526	1.329	3	-209.199	0	3
63	M32	max	391.39	1.329	5	-103.287	0	4	6.813	1.329	5	0	1.329	7	4.526	1.329	5	680.812	1.329	5
64		min	90.131	0	1	-451.988	1.329	3	1.088	0	1	0	0	1	-4.526	0	3	19.695	0	1
65	M33	max	391.39	1.329	5	-103.287	0	4	-1.088	1.329	4	0	1.329	7	4.526	0	5	680.812	1.329	5
66		min	90.131	0	1	-451.988	1.329	3	-6.813	0	3	0	0	1	-4.526	1.329	3	19.695	0	1
67	M34	max	-92.544	1.329	4	472.965	0	5	6.813	1.329	5	0	1.329	5	4.526	1.329	5	680.812	0	5
68		min	-413.844	0	3	105.764	1.329	1	1.088	0	1	0	0	1	-4.526	0	3	16.404	1.329	1
69	M35	max	-92.544	1.329	4	472.965	0	5	-1.088	1.329	4	0	1.329	6	4.526	0	5	680.812	0	5
70		min	-413.844	0	3	105.764	1.329	1	-6.813	0	3	0	0	3	-4.526	1.329	3	16.404	1.329	1
71	M36	max	-43.54	1.329	4	266.445	0	5	6.814	1.329	5	0.001	1.329	5	4.528	1.329	5	70.556	0	5
72		min	-233.139	0	3	49.76	1.329	1	1.088	0	1	0	0	1	-4.527	0	3	-265.284	1.329	3
73	M37	max	-43.54	1.329	4	266.445	0	5	-1.088	1.329	4	0	1.329	4	4.527	0	5	70.556	0	5
74		min	-233.139	0	3	49.76	1.329	1	-6.814	0	3	-0.001	0	3	-4.528	1.329	3	-265.284	1.329	3
75	M38	max	18.859	1.329	6	66.982	0	7	8.482	1.329	5	0.776	1.329	5	6.005	1.329	5	-67.919	0	4
76		min	-58.609	0	7	-21.554	1.329	6	1.285	0	6	0.092	0	6	-5.266	0	3	-326.706	1.329	3
77	M39	max	18.859	1.329	6	66.982	0	7	-1.285	1.329	6	-0.092	1.329	6	5.266	0	5	-67.919	0	4
78		min	-58.609	0	7	-21.554	1.329	6	-8.482	0	3	-0.776	0	3	-6.005	1.329	3	-326.706	1.329	3
79	M40	max	226.846	1.329	5	-44.869	0	4	2.539	1.329	5	0	1.329	7	0	1.329	7	0	1.329	7
80		min	39.243	0	1	-259.572	1.329	3	0.371	0	1	0	0	1	-3.374	0	3	-326.706	0	3
81	M41	max	226.846	1.329	5	-44.869	0	4	-0.371	1.329	4	0	1.329	7	3.374	0	5	0	1.329	7
82		min	39.243	0	1	-259.572	1.329	3	-2.539	0	3	0	0	1	0	1.329	1	-326.706	0	3
83	M42	max	5.145	4	5	0	4	7	238.009	4	5	0	4	7	2.649	4	5	-1.308	0	4
84		min	0.824	0	1	0	0	1	-238.009	0	3	0	0	1	-235.36	2	3	-6.857	4	3
85	M43	max	-0.017	4	4	0	4	7	238.009	4	5	0	4	7	5.957	4	5	-1.099	0	4
86		min	-0.073	0	3	0	0	1	-238.009	0	3	0	0	1	-232.052	2	3	-6.86	4	3
87	M44	max	0	4	4	0	4	7	238.009	4	5	0	4	7	5.961	4	5	-1.088	0	4
88		min	0	0	3	0	0	1	-238.009	0	3	0	0	1	-232.048	2	3	-6.813	4	3
89	M45	max	0	4	7	0	4	7	238.009	4	5	0	4	7	5.961	4	5	-1.088	4	4
90		min	0	0	1	0	0	1	-238.009	0	3	0	0	1	-232.048	2	3	-6.813	4	3
91	M46	max	0.002	4	5	0	4	7	238.009	4	5	0	4	7	5.961	4	5	-1.088	0	4
92		min	0	0	6	0	0	1	-238.009	0	3	0	0	1	-232.048	2	3	-6.814	0	3
93	M47	max	1.667	4	5	0	4	7	238.009	4	5	0	4	7	5.866	4	5	-1.214	0	6
94		min	0.197	0	6	0	0	1	-238.009	0	3	0	0	1	-232.142	2	3	-7.88	4	3
95	M48	max	-0.914	4	4	0	4	7	351.296	4	5	0	4	7	6.759	4	5	-0.986	4	6
96		min	-5.943	0	3	0	0	1	-351.296	0	3	0	0	1	-344.537	2	3	-6.547	4	3
97	M49	max	1466.595	0	5	0	3.5	7	0	3.5	7	0	3.5	7	0	3.5	7	0	3.5	7

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
98		min	388.408	3.5	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
99	M50	max	1466.595	0	5	0	3.5	7	0	3.5	7	0	3.5	7	0	3.5	7	0	3.5	7
100		min	388.408	3.5	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1

Envelope Member End Reactions

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1	M1	I	max	-56.881	4	202.703	7	-0.281	4	2.556	5	0	7	0	7
2			min	-180.382	7	64.774	1	-1.741	3	0.725	1	0	1	0	1
3		J	max	-32.906	4	168.294	5	-0.281	4	2.556	5	-0.373	4	-67.866	4
4			min	-150.725	3	37.374	1	-1.741	3	0.725	1	-2.313	3	-241.828	3
5	M2	I	max	1534.957	5	0.024	5	0	7	0	7	0	7	0	7
6			min	283.932	1	0.003	1	0	1	0	1	0	1	0	1
7		J	max	1529.393	5	0.024	5	0	7	0	7	0	4	-0.02	4
8			min	278.368	1	0.003	1	0	1	0	1	0	3	-0.166	3
9	M3	I	max	1147.923	5	0.169	5	0	7	0	7	0	7	0	7
10			min	246.384	1	0.017	1	0	3	0	1	0	1	0	1
11		J	max	1142.359	5	0.169	5	0	7	0	7	0	4	-0.118	4
12			min	240.82	1	0.017	1	0	3	0	1	0	3	-1.184	3
13	M4	I	max	-56.881	4	202.703	7	1.741	5	-0.725	4	0	7	0	7
14			min	-180.382	7	64.774	1	0.281	1	-2.556	3	0	1	0	1
15		J	max	-32.906	4	168.294	5	1.741	5	-0.725	4	2.313	5	-67.866	4
16			min	-150.725	3	37.374	1	0.281	1	-2.556	3	0.373	1	-241.828	3
17	M5	I	max	1534.957	5	0.024	5	0	7	0	7	0	7	0	7
18			min	283.932	1	0.003	1	0	1	0	1	0	1	0	1
19		J	max	1529.393	5	0.024	5	0	7	0	7	0	5	-0.02	4
20			min	278.368	1	0.003	1	0	1	0	1	0	1	-0.166	3
21	M6	I	max	1147.923	5	0.169	5	0	5	0	7	0	7	0	7
22			min	246.384	1	0.017	1	0	1	0	1	0	1	0	1
23		J	max	1142.359	5	0.169	5	0	5	0	7	0	5	-0.118	4
24			min	240.82	1	0.017	1	0	1	0	1	0	1	-1.184	3
25	M7	I	max	0	7	0	7	4.313	7	0	7	0	7	0	7
26			min	0	1	0	1	0	2	0	1	0	1	0	1
27		J	max	0	7	0	7	0	2	0	7	0	7	0	7
28			min	0	1	0	1	-4.313	1	0	1	0	1	0	1
29	M8	I	max	0.004	5	0	7	754.313	5	0	5	0	7	0	7
30			min	0	1	0	1	129.312	1	0	1	0	1	0	1
31		J	max	0.004	5	0	7	-129.312	4	0	5	0	7	0	7
32			min	0	1	0	1	-754.313	3	0	1	0	1	0	1
33	M9	I	max	0	4	0	7	754.313	5	0	6	0	7	0	7
34			min	-0.003	3	0	1	129.312	1	0	3	0	1	0	1
35		J	max	0	4	0	7	-129.312	4	0	6	0	7	0	7
36			min	-0.003	3	0	1	-754.313	3	0	3	0	1	0	1
37	M10	I	max	0.003	5	0	7	754.312	5	0	7	0	7	0	7
38			min	0	1	0	1	129.312	1	0	1	0	1	0	1
39		J	max	0.003	5	0	7	-129.312	4	0	7	0	7	0	7
40			min	0	1	0	1	-754.312	3	0	1	0	1	0	1
41	M11	I	max	0.004	5	0	7	754.312	5	0	4	0	7	0	7
42			min	0	1	0	1	129.312	1	0	3	0	1	0	1
43		J	max	0.004	5	0	7	-129.313	4	0	4	0	7	0	7
44			min	0	1	0	1	-754.313	3	0	3	0	1	0	1
45	M12	I	max	0	4	0	7	754.312	5	0	5	0	7	0	7
46			min	-0.003	3	0	1	129.312	1	0	1	0	1	0	1
47		J	max	0	4	0	7	-129.313	4	0	5	0	7	0	7
48			min	-0.003	3	0	1	-754.313	3	0	1	0	1	0	1
49	M13	I	max	0.003	5	0	7	754.313	5	0	7	0	7	0	7

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
50			min	0	1	0	1	129.312	1	0	1	0	1	0	1
51		J	max	0.003	5	0	7	-129.312	4	0	7	0	7	0	7
52			min	0	1	0	1	-754.313	3	0	1	0	1	0	1
53	M14	I	max	0	6	0	7	4.313	7	0	7	0	7	0	7
54			min	0	3	0	1	0	2	0	1	0	1	0	1
55		J	max	0	6	0	7	0	2	0	7	0	7	0	7
56			min	0	3	0	1	-4.313	1	0	1	0	1	0	1
57	M15	I	max	0	7	0	7	4.313	7	0	7	0	7	0	7
58			min	0	1	0	1	0	2	0	1	0	1	0	1
59		J	max	0	7	0	7	0	2	0	7	0	7	0	7
60			min	0	1	0	1	-4.313	1	0	1	0	1	0	1
61	M16	I	max	-0.224	4	-0.153	4	379.916	5	0	7	0	7	0	7
62			min	-1.393	3	-2.609	3	103.804	1	0	1	0	1	0	1
63		J	max	-0.224	4	-0.153	4	379.053	5	0	7	189.742	5	1.305	5
64			min	-1.393	3	-2.609	3	102.942	1	0	1	51.686	1	0.077	1
65	M17	I	max	835.019	5	-0.025	4	0	6	0	7	0	7	0	7
66			min	209.416	1	-0.241	3	0	3	0	1	0	1	0	1
67		J	max	829.455	5	-0.025	4	0	6	0	7	0	4	1.684	5
68			min	203.852	1	-0.241	3	0	3	0	1	0	3	0.177	1
69	M18	I	max	835.019	5	-0.025	4	0	5	0	7	0	7	0	7
70			min	209.416	1	-0.241	3	0	1	0	1	0	1	0	1
71		J	max	829.455	5	-0.025	4	0	5	0	7	0	5	1.684	5
72			min	203.852	1	-0.241	3	0	1	0	1	0	1	0.177	1
73	M19	I	max	0	7	0	7	66.813	7	0	7	0	7	0	7
74			min	0	1	0	1	0	2	0	1	0	1	0	1
75		J	max	0	7	0	7	0	2	0	7	0	7	0	7
76			min	0	1	0	1	-66.813	1	0	1	0	1	0	1
77	M20	I	max	0	4	0	7	754.313	5	0	7	0	7	0	7
78			min	-0.004	3	0	1	129.312	1	0	1	0	1	0	1
79		J	max	0	4	0	7	-129.312	4	0	7	0	7	0	7
80			min	-0.004	3	0	1	-754.313	3	0	1	0	1	0	1
81	M21	I	max	0	4	0	7	754.313	5	0	7	0	7	0	7
82			min	-0.004	3	0	1	129.313	1	0	1	0	1	0	1
83		J	max	0	4	0	7	-129.313	4	0	7	0	7	0	7
84			min	-0.004	3	0	1	-754.313	3	0	1	0	1	0	1
85	M22	I	max	0.348	5	0	7	116.738	5	0	7	187.819	5	2.988	5
86			min	0.056	1	0	1	16.738	6	0	1	51.141	1	0.554	1
87		J	max	0.348	5	0	7	-16.738	4	0	7	187.819	5	2.988	5
88			min	0.056	1	0	1	-116.738	3	0	1	51.141	1	0.554	1
89	M23	I	max	15.193	2	24.118	6	-1.105	4	0.034	5	4.591	5	-67.866	4
90			min	-21.673	6	-19.63	2	-6.886	3	0.008	1	0.738	1	-241.828	3
91		J	max	40.761	7	-18.632	4	-1.105	4	0.034	5	-0.73	4	-61.313	4
92			min	15.193	2	-50.057	7	-6.886	3	0.008	1	-4.559	3	-209.199	3
93	M24	I	max	1532.536	5	-0.003	4	0	6	0	7	0	7	0	7
94			min	283.68	1	-0.025	3	0	3	0	1	0	1	0	1
95		J	max	1526.971	5	-0.003	4	0	6	0	7	0	4	0.173	5
96			min	278.116	1	-0.025	3	0	3	0	1	0	3	0.02	1
97	M25	I	max	1532.802	5	-0.003	4	0	7	0	7	0	7	0	7
98			min	283.712	1	-0.023	3	0	1	0	1	0	1	0	1
99		J	max	1527.238	5	-0.003	4	0	7	0	7	0	4	0.16	5
100			min	278.148	1	-0.023	3	0	1	0	1	0	3	0.019	1
101	M26	I	max	15.193	2	24.118	6	6.886	5	-0.008	4	-0.738	4	-67.866	4
102			min	-21.673	6	-19.63	2	1.105	1	-0.034	3	-4.591	3	-241.828	3
103		J	max	40.761	7	-18.632	4	6.886	5	-0.008	4	4.559	5	-61.313	4
104			min	15.193	2	-50.057	7	1.105	1	-0.034	3	0.73	1	-209.199	3

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
105	M27	I	max	1532.536	5	-0.003	4	0	5	0	7	0	7	0	7
106			min	283.68	1	-0.025	3	0	1	0	1	0	1	0	1
107		J	max	1526.971	5	-0.003	4	0	5	0	7	0	5	0.173	5
108			min	278.116	1	-0.025	3	0	1	0	1	0	1	0.02	1
109	M28	I	max	1532.802	5	-0.003	4	0	7	0	7	0	7	0	7
110			min	283.712	1	-0.023	3	0	1	0	1	0	1	0	1
111		J	max	1527.238	5	-0.003	4	0	7	0	7	0	5	0.16	5
112			min	278.148	1	-0.023	3	0	1	0	1	0	1	0.019	1
113	M29	I	max	-0.224	4	2.609	5	-102.942	4	0	7	189.742	5	1.305	5
114			min	-1.393	3	0.153	1	-379.053	3	0	1	51.686	1	0.077	1
115		J	max	-0.224	4	2.609	5	-103.804	4	0	7	0	7	0	7
116			min	-1.393	3	0.153	1	-379.916	3	0	1	0	1	0	1
117	M30	I	max	186.71	5	-47.265	4	6.813	5	0	4	-0.723	4	-61.313	4
118			min	41.127	1	-217.813	3	1.088	1	0	3	-4.526	3	-209.199	3
119		J	max	213.234	7	-74.665	4	6.813	5	0	4	4.526	5	98.429	5
120			min	65.102	1	-247.558	7	1.088	1	0	3	0.723	1	19.695	1
121	M31	I	max	186.71	5	-47.265	4	-1.088	4	0	5	4.526	5	-61.313	4
122			min	41.127	1	-217.813	3	-6.813	3	0	1	0.723	1	-209.199	3
123		J	max	213.234	7	-74.665	4	-1.088	4	0	5	-0.723	4	98.429	5
124			min	65.102	1	-247.558	7	-6.813	3	0	1	-4.526	3	19.695	1
125	M32	I	max	367.415	5	-103.287	4	6.813	5	0	7	-0.723	4	98.429	5
126			min	90.131	1	-424.588	3	1.088	1	0	1	-4.526	3	19.695	1
127		J	max	391.39	5	-130.687	4	6.813	5	0	7	4.526	5	680.812	5
128			min	114.106	1	-451.988	3	1.088	1	0	1	0.723	1	175.144	1
129	M33	I	max	367.415	5	-103.287	4	-1.088	4	0	7	4.526	5	98.429	5
130			min	90.131	1	-424.588	3	-6.813	3	0	1	0.723	1	19.695	1
131		J	max	391.39	5	-130.687	4	-1.088	4	0	7	-0.723	4	680.812	5
132			min	114.106	1	-451.988	3	-6.813	3	0	1	-4.526	3	175.144	1
133	M34	I	max	-116.519	4	472.965	5	6.813	5	0	5	-0.723	4	680.812	5
134			min	-413.844	3	133.164	1	1.088	1	0	1	-4.526	3	175.144	1
135		J	max	-92.544	4	445.565	5	6.813	5	0	5	4.526	5	70.556	5
136			min	-389.869	3	105.764	1	1.088	1	0	1	0.723	1	16.404	1
137	M35	I	max	-116.519	4	472.965	5	-1.088	4	0	6	4.526	5	680.812	5
138			min	-413.844	3	133.164	1	-6.813	3	0	3	0.723	1	175.144	1
139		J	max	-92.544	4	445.565	5	-1.088	4	0	6	-0.723	4	70.556	5
140			min	-389.869	3	105.764	1	-6.813	3	0	3	-4.526	3	16.404	1
141	M36	I	max	-67.515	4	266.445	5	6.814	5	0.001	5	-0.723	4	70.556	5
142			min	-233.139	3	77.16	1	1.088	1	0	1	-4.527	3	16.404	1
143		J	max	-43.54	4	239.045	5	6.814	5	0.001	5	4.528	5	-67.919	4
144			min	-209.164	3	49.76	1	1.088	1	0	1	0.723	1	-265.284	3
145	M37	I	max	-67.515	4	266.445	5	-1.088	4	0	4	4.527	5	70.556	5
146			min	-233.139	3	77.16	1	-6.814	3	-0.001	3	0.723	1	16.404	1
147		J	max	-43.54	4	239.045	5	-1.088	4	0	4	-0.723	4	-67.919	4
148			min	-209.164	3	49.76	1	-6.814	3	-0.001	3	-4.528	3	-265.284	3
149	M38	I	max	-18.511	4	66.982	7	8.482	5	0.776	5	-0.81	6	-67.919	4
150			min	-58.609	7	21.155	1	1.285	6	0.092	6	-5.266	3	-265.284	3
151		J	max	18.859	6	38.639	2	8.482	5	0.776	5	6.005	5	-77.825	4
152			min	-33.809	2	-21.554	6	1.285	6	0.092	6	0.897	6	-326.706	3
153	M39	I	max	-18.511	4	66.982	7	-1.285	6	-0.092	6	5.266	5	-67.919	4
154			min	-58.609	7	21.155	1	-8.482	3	-0.776	3	0.81	6	-265.284	3
155		J	max	18.859	6	38.639	2	-1.285	6	-0.092	6	-0.897	6	-77.825	4
156			min	-33.809	2	-21.554	6	-8.482	3	-0.776	3	-6.005	3	-326.706	3
157	M40	I	max	202.871	5	-44.869	4	2.539	5	0	7	-0.493	4	-77.825	4
158			min	39.243	1	-232.172	3	0.371	1	0	1	-3.374	3	-326.706	3
159		J	max	226.846	5	-72.269	4	2.539	5	0	7	0	7	0	7

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
160			min	63.218	1	-259.572	3	0.371	1	0	1	0	1	0	1
161	M41	I	max	202.871	5	-44.869	4	-0.371	4	0	7	3.374	5	-77.825	4
162			min	39.243	1	-232.172	3	-2.539	3	0	1	0.493	1	-326.706	3
163		J	max	226.846	5	-72.269	4	-0.371	4	0	7	0	7	0	7
164			min	63.218	1	-259.572	3	-2.539	3	0	1	0	1	0	1
165	M42	I	max	5.145	5	0	7	-38.009	4	0	7	2.649	5	-1.308	4
166			min	0.824	1	0	1	-238.009	3	0	1	-0.203	6	-6.857	3
167		J	max	5.145	5	0	7	238.009	5	0	7	2.649	5	-1.308	4
168			min	0.824	1	0	1	38.009	6	0	1	-0.203	6	-6.857	3
169	M43	I	max	-0.017	4	0	7	-38.009	6	0	7	5.957	5	-1.099	4
170			min	-0.073	3	0	1	-238.009	3	0	1	0.95	6	-6.86	3
171		J	max	-0.017	4	0	7	238.009	5	0	7	5.957	5	-1.099	4
172			min	-0.073	3	0	1	38.009	1	0	1	0.95	6	-6.86	3
173	M44	I	max	0	4	0	7	-38.009	6	0	7	5.961	5	-1.088	4
174			min	0	3	0	1	-238.009	3	0	1	0.952	6	-6.813	3
175		J	max	0	4	0	7	238.009	5	0	7	5.961	5	-1.088	4
176			min	0	3	0	1	38.009	1	0	1	0.952	6	-6.813	3
177	M45	I	max	0	7	0	7	-38.009	6	0	7	5.961	5	-1.088	4
178			min	0	1	0	1	-238.009	3	0	1	0.952	6	-6.813	3
179		J	max	0	7	0	7	238.009	5	0	7	5.961	5	-1.088	4
180			min	0	1	0	1	38.009	1	0	1	0.952	6	-6.813	3
181	M46	I	max	0.002	5	0	7	-38.009	6	0	7	5.961	5	-1.088	4
182			min	0	6	0	1	-238.009	3	0	1	0.952	6	-6.814	3
183		J	max	0.002	5	0	7	238.009	5	0	7	5.961	5	-1.088	4
184			min	0	6	0	1	38.009	1	0	1	0.952	6	-6.814	3
185	M47	I	max	1.667	5	0	7	-38.009	6	0	7	5.866	5	-1.214	6
186			min	0.197	6	0	1	-238.009	3	0	1	0.941	6	-7.88	3
187		J	max	1.667	5	0	7	238.009	5	0	7	5.866	5	-1.214	6
188			min	0.197	6	0	1	38.009	1	0	1	0.941	6	-7.88	3
189	M48	I	max	-0.914	4	0	7	-51.296	6	0	7	6.759	5	-0.986	6
190			min	-5.943	3	0	1	-351.296	3	0	1	0.984	6	-6.547	3
191		J	max	-0.914	4	0	7	351.296	5	0	7	6.759	5	-0.986	6
192			min	-5.943	3	0	1	51.296	1	0	1	0.984	6	-6.547	3
193	M49	I	max	1466.595	5	0	7	0	7	0	7	0	7	0	7
194			min	391.19	1	0	1	0	1	0	1	0	1	0	1
195		J	max	1463.813	5	0	7	0	7	0	7	0	7	0	7
196			min	388.408	1	0	1	0	1	0	1	0	1	0	1
197	M50	I	max	1466.595	5	0	7	0	7	0	7	0	7	0	7
198			min	391.19	1	0	1	0	1	0	1	0	1	0	1
199		J	max	1463.813	5	0	7	0	7	0	7	0	7	0	7
200			min	388.408	1	0	1	0	1	0	1	0	1	0	1

Envelope Member 2nd/1st Moment Ratios

	Member		y-y Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC	z-z Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC
1	M1	max	-0.373	1	1.329	4	-232.391	1	1.329	7
2		min	-1.833	1	1.329	7	-67.866	1	1.329	1
3	M2	max	NC	NC			-0.166	1.008	7	5
4		min	NC	NC			-0.057	1.004	7	6
5	M3	max	NC	NC			-0.381	0.998	7	6
6		min	NC	NC			-1.184	0.996	7	3
7	M4	max	0.373	1	1.329	4	-232.391	1	1.329	7
8		min	1.833	1	1.329	7	-67.866	1	1.329	1
9	M5	max	NC	NC			-0.166	1.008	7	5
10		min	NC	NC			-0.057	1.004	7	6
11	M6	max	NC	NC			-0.381	0.998	7	6

Envelope Member 2nd/1st Moment Ratios (Continued)

	Member		y-y Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC	z-z Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC
12		min	NC	NC			-1.184	0.996	7	3
13	M7	max	5.391	1	2.5	7	NC	NC		
14		min	5.391	1	2.5	1	NC	NC		
15	M8	max	894.063	1	2.5	7	NC	NC		
16		min	161.641	1	2.5	1	NC	NC		
17	M9	max	894.063	1	2.5	7	NC	NC		
18		min	161.641	1	2.5	1	NC	NC		
19	M10	max	161.641	1	2.5	4	NC	NC		
20		min	356.953	1	2.5	6	NC	NC		
21	M11	max	894.063	1	2.5	7	NC	NC		
22		min	161.641	1	2.5	1	NC	NC		
23	M12	max	894.063	1	2.5	7	NC	NC		
24		min	161.641	1	2.5	1	NC	NC		
25	M13	max	894.063	1	2.5	7	NC	NC		
26		min	161.641	1	2.5	1	NC	NC		
27	M14	max	5.391	1	2.5	7	NC	NC		
28		min	5.391	1	2.5	1	NC	NC		
29	M15	max	5.391	1	2.5	7	NC	NC		
30		min	5.391	1	2.5	1	NC	NC		
31	M16	max	189.742	1.006	0.5	5	NC	NC		
32		min	51.686	1.001	0.5	1	NC	NC		
33	M17	max	NC	NC			0.553	1	7	6
34		min	NC	NC			1.684	0.999	7	3
35	M18	max	NC	NC			0.553	1	7	6
36		min	NC	NC			1.684	0.999	7	3
37	M19	max	83.516	1	2.5	7	NC	NC		
38		min	83.516	1	2.5	1	NC	NC		
39	M20	max	894.063	1	2.5	7	NC	NC		
40		min	161.641	1	2.5	1	NC	NC		
41	M21	max	942.891	1	2.5	5	NC	NC		
42		min	161.641	1	2.5	1	NC	NC		
43	M22	max	304.556	1.004	2	5	2.988	1.749	4	5
44		min	67.878	1.001	2	1	0.554	1.157	4	1
45	M23	max	0.738	1	0	4	-232.761	1	0.138	7
46		min	3.634	1	0	7	-69.73	1	0.429	1
47	M24	max	NC	NC			0.173	1.007	7	5
48		min	NC	NC			0.059	1.003	7	6
49	M25	max	NC	NC			0.16	1.008	7	5
50		min	NC	NC			0.055	1.004	7	6
51	M26	max	-0.738	1	0	4	-232.761	1	0.138	7
52		min	-3.634	1	0	7	-69.73	1	0.429	1
53	M27	max	NC	NC			0.173	1.007	7	5
54		min	NC	NC			0.059	1.003	7	6
55	M28	max	NC	NC			0.16	1.008	7	5
56		min	NC	NC			0.055	1.004	7	6
57	M29	max	189.742	1.006	0	5	NC	NC		
58		min	51.686	1.001	0	1	NC	NC		
59	M30	max	-0.723	1	0	4	-202.832	1	0	7
60		min	-3.575	1	0	7	-61.313	1	0	1
61	M31	max	0.723	1	0	4	-202.832	1	0	7
62		min	3.575	1	0	7	-61.313	1	0	1
63	M32	max	-0.723	1	0	4	680.812	1.002	1.329	5
64		min	-3.575	1	0	7	175.144	1	1.329	1
65	M33	max	0.723	1	0	4	680.812	1.002	1.329	5
66		min	3.575	1	0	7	175.144	1	1.329	1

Envelope Member 2nd/1st Moment Ratios (Continued)

	Member		y-y Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC	z-z Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC
67	M34	max	0.723	1	1.329	4	680.812	1.002	0	5
68		min	3.575	1	1.329	7	175.144	1	0	1
69	M35	max	-0.723	1	1.329	4	680.812	1.002	0	5
70		min	-3.575	1	1.329	7	175.144	1	0	1
71	M36	max	4.528	1	1.329	5	-67.919	1	1.329	4
72		min	0.723	1	1.329	1	-265.284	0.998	1.329	3
73	M37	max	-4.528	1	1.329	5	-67.919	1	1.329	4
74		min	-0.723	1	1.329	1	-265.284	0.998	1.329	3
75	M38	max	0.897	1	1.329	4	-248.897	1	1.329	2
76		min	6.005	1	1.329	3	-127.954	1	0.886	6
77	M39	max	-0.897	1	1.329	4	-248.897	1	1.329	2
78		min	-6.005	1	1.329	3	-127.954	1	0.886	6
79	M40	max	-3.374	1	0	5	-77.825	1	0	4
80		min	-0.493	1	0	1	-298.518	1	0	7
81	M41	max	3.374	1	0	5	-77.825	1	0	4
82		min	0.493	1	0	1	-298.518	1	0	7
83	M42	max	-37.817	1	2	4	-1.308	0.999	4	4
84		min	-186.269	1	2	7	-5.741	0.996	4	7
85	M43	max	-37.058	1	2	4	-1.099	1	4	4
86		min	-183.304	1	2	7	-5.424	1	4	7
87	M44	max	-37.057	1	2	4	-1.088	1	4	4
88		min	-183.3	1	2	7	-5.382	1	4	7
89	M45	max	-37.057	1	2	4	-1.088	1	0	4
90		min	-183.3	1	2	7	-5.381	1	0	7
91	M46	max	-232.048	1	2	5	-6.814	1	0	5
92		min	-37.057	1	2	1	-1.088	1	4	1
93	M47	max	-232.142	1	2	5	-1.214	1	0	4
94		min	-37.068	1	2	1	-7.88	1	4	3
95	M48	max	-344.537	1	2	5	-0.986	1	4	4
96		min	-50.312	1	2	1	-6.547	1	4	3
97	M49	max	NC	NC			NC	NC		
98		min	NC	NC			NC	NC		
99	M50	max	NC	NC			NC	NC		
100		min	NC	NC			NC	NC		

Envelope Member Section Stresses

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1	M1	1	max	-0.028	4	0.152	7	0	4	0	7	0	7	0	7	0	7
2			min	-0.09	7	0.049	1	-0.001	3	0	1	0	1	0	1	0	1
3		2	max	-0.025	4	0.142	5	0	4	0.293	7	-0.092	4	-0.013	4	0.083	5
4			min	-0.084	3	0.043	1	-0.001	3	0.092	1	-0.293	7	-0.083	3	0.013	1
5		3	max	-0.022	4	0.136	5	0	4	0.565	5	-0.173	4	-0.027	4	0.167	5
6			min	-0.081	3	0.038	1	-0.001	3	0.173	1	-0.565	3	-0.167	3	0.027	1
7		4	max	-0.019	4	0.131	5	0	4	0.832	5	-0.244	4	-0.04	4	0.25	5
8			min	-0.078	3	0.033	1	-0.001	3	0.244	1	-0.832	3	-0.25	3	0.04	1
9		5	max	-0.016	4	0.126	5	0	4	1.088	5	-0.305	4	-0.054	4	0.333	5
10			min	-0.075	3	0.028	1	-0.001	3	0.305	1	-1.088	3	-0.333	3	0.054	1
11	M2	1	max	2.317	5	0	5	0	7	0	7	0	7	0	7	0	7
12			min	0.429	1	0	1	0	1	0	1	0	1	0	1	0	1
13		2	max	2.315	5	0	5	0	7	0.002	5	0	4	0	6	0	5
14			min	0.427	1	0	1	0	1	0	1	-0.002	3	0	3	0	1
15		3	max	2.313	5	0	5	0	7	0.004	5	0	4	0	4	0	5
16			min	0.424	1	0	1	0	1	0	1	-0.004	3	0	3	0	1
17		4	max	2.311	5	0	5	0	7	0.005	5	-0.001	4	0	4	0	5
18			min	0.422	1	0	1	0	1	0.001	1	-0.005	3	0	3	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
19		5	max	2.309	5	0	5	0	7	0.007	5	-0.001	4	0	4	0	5
20			min	0.42	1	0	1	0	1	0.001	1	-0.007	3	0	3	0	1
21	M3	1	max	1.733	5	0	5	0	7	0	7	0	7	0	7	0	7
22			min	0.372	1	0	1	0	3	0	1	0	1	0	1	0	1
23		2	max	1.731	5	0	5	0	7	0.013	5	-0.001	4	0	4	0	5
24			min	0.37	1	0	1	0	3	0.001	1	-0.013	3	0	3	0	1
25		3	max	1.729	5	0	5	0	7	0.025	5	-0.003	4	0	4	0	5
26			min	0.368	1	0	1	0	3	0.003	1	-0.025	3	0	3	0	1
27		4	max	1.727	5	0	5	0	7	0.038	5	-0.004	4	0	4	0	5
28			min	0.366	1	0	1	0	3	0.004	1	-0.038	3	0	3	0	1
29		5	max	1.725	5	0	5	0	7	0.05	5	-0.005	4	0	4	0	5
30			min	0.364	1	0	1	0	3	0.005	1	-0.05	3	0	3	0	1
31	M4	1	max	-0.028	4	0.152	7	0.001	5	0	7	0	7	0	7	0	7
32			min	-0.09	7	0.049	1	0	1	0	1	0	1	0	1	0	1
33		2	max	-0.025	4	0.142	5	0.001	5	0.293	7	-0.092	4	0.083	5	-0.013	4
34			min	-0.084	3	0.043	1	0	1	0.092	1	-0.293	7	0.013	1	-0.083	3
35		3	max	-0.022	4	0.136	5	0.001	5	0.565	5	-0.173	4	0.167	5	-0.027	4
36			min	-0.081	3	0.038	1	0	1	0.173	1	-0.565	3	0.027	1	-0.167	3
37		4	max	-0.019	4	0.131	5	0.001	5	0.832	5	-0.244	4	0.25	5	-0.04	4
38			min	-0.078	3	0.033	1	0	1	0.244	1	-0.832	3	0.04	1	-0.25	3
39		5	max	-0.016	4	0.126	5	0.001	5	1.088	5	-0.305	4	0.333	5	-0.054	4
40			min	-0.075	3	0.028	1	0	1	0.305	1	-1.088	3	0.054	1	-0.333	3
41	M5	1	max	2.317	5	0	5	0	7	0	7	0	7	0	7	0	7
42			min	0.429	1	0	1	0	1	0	1	0	1	0	1	0	1
43		2	max	2.315	5	0	5	0	7	0.002	5	0	4	0	5	0	6
44			min	0.427	1	0	1	0	1	0	1	-0.002	3	0	1	0	3
45		3	max	2.313	5	0	5	0	7	0.004	5	0	4	0	5	0	4
46			min	0.424	1	0	1	0	1	0	1	-0.004	3	0	1	0	3
47		4	max	2.311	5	0	5	0	7	0.005	5	-0.001	4	0	5	0	4
48			min	0.422	1	0	1	0	1	0.001	1	-0.005	3	0	1	0	3
49		5	max	2.309	5	0	5	0	7	0.007	5	-0.001	4	0	5	0	4
50			min	0.42	1	0	1	0	1	0.001	1	-0.007	3	0	1	0	3
51	M6	1	max	1.733	5	0	5	0	5	0	7	0	7	0	7	0	7
52			min	0.372	1	0	1	0	1	0	1	0	1	0	1	0	1
53		2	max	1.731	5	0	5	0	5	0.013	5	-0.001	4	0	5	0	4
54			min	0.37	1	0	1	0	1	0.001	1	-0.013	3	0	1	0	3
55		3	max	1.729	5	0	5	0	5	0.025	5	-0.003	4	0	5	0	4
56			min	0.368	1	0	1	0	1	0.003	1	-0.025	3	0	1	0	3
57		4	max	1.727	5	0	5	0	5	0.038	5	-0.004	4	0	5	0	4
58			min	0.366	1	0	1	0	1	0.004	1	-0.038	3	0	1	0	3
59		5	max	1.725	5	0	5	0	5	0.05	5	-0.005	4	0	5	0	4
60			min	0.364	1	0	1	0	1	0.005	1	-0.05	3	0	1	0	3
61	M7	1	max	0	7	0	7	0.005	7	0	7	0	7	0	7	0	7
62			min	0	1	0	1	0	2	0	1	0	1	0	1	0	1
63		2	max	0	7	0	7	0.003	7	0	7	0	7	0.073	7	0	2
64			min	0	1	0	1	0	2	0	1	0	1	0	2	-0.073	1
65		3	max	0	7	0	7	0	7	0	7	0	7	0.097	7	0	2
66			min	0	1	0	1	0	1	0	1	0	1	0	2	-0.097	1
67		4	max	0	7	0	7	0	2	0	7	0	7	0.073	7	0	2
68			min	0	1	0	1	-0.003	1	0	1	0	1	0	2	-0.073	1
69		5	max	0	7	0	7	0	2	0	7	0	7	0	7	0	7
70			min	0	1	0	1	-0.005	1	0	1	0	1	0	1	0	1
71	M8	1	max	0	5	0	7	0.905	5	0	7	0	7	0	7	0	7
72			min	0	1	0	1	0.155	1	0	1	0	1	0	1	0	1
73		2	max	0	5	0	7	0.453	5	0	7	0	7	12.707	5	-2.178	4

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
74			min	0	1	0	1	0.078	1	0	1	0	1	2.178	1	-12.707	3
75		3	max	0	5	0	7	0	7	0	7	0	7	16.943	5	-2.905	4
76			min	0	1	0	1	0	1	0	1	0	1	2.905	1	-16.943	3
77		4	max	0	5	0	7	-0.078	4	0	7	0	7	12.707	5	-2.178	4
78			min	0	1	0	1	-0.453	3	0	1	0	1	2.178	1	-12.707	3
79		5	max	0	5	0	7	-0.155	4	0	7	0	7	0	7	0	7
80			min	0	1	0	1	-0.905	3	0	1	0	1	0	1	0	1
81	M9	1	max	0	4	0	7	0.905	5	0	7	0	7	0	7	0	7
82			min	0	3	0	1	0.155	1	0	1	0	1	0	1	0	1
83		2	max	0	4	0	7	0.453	5	0	7	0	7	12.707	5	-2.178	4
84			min	0	3	0	1	0.078	1	0	1	0	1	2.178	1	-12.707	3
85		3	max	0	4	0	7	0	7	0	7	0	7	16.943	5	-2.905	4
86			min	0	3	0	1	0	1	0	1	0	1	2.905	1	-16.943	3
87		4	max	0	4	0	7	-0.078	4	0	7	0	7	12.707	5	-2.178	4
88			min	0	3	0	1	-0.453	3	0	1	0	1	2.178	1	-12.707	3
89		5	max	0	4	0	7	-0.155	4	0	7	0	7	0	7	0	7
90			min	0	3	0	1	-0.905	3	0	1	0	1	0	1	0	1
91	M10	1	max	0	5	0	7	0.905	5	0	7	0	7	0	7	0	7
92			min	0	1	0	1	0.155	1	0	1	0	1	0	1	0	1
93		2	max	0	5	0	7	0.453	5	0	7	0	7	12.707	5	-2.178	4
94			min	0	1	0	1	0.078	1	0	1	0	1	2.178	1	-12.707	3
95		3	max	0	5	0	7	0	7	0	7	0	7	16.943	5	-2.905	4
96			min	0	1	0	1	0	1	0	1	0	1	2.905	1	-16.943	3
97		4	max	0	5	0	7	-0.078	4	0	7	0	7	12.707	5	-2.178	4
98			min	0	1	0	1	-0.453	3	0	1	0	1	2.178	1	-12.707	3
99		5	max	0	5	0	7	-0.155	4	0	7	0	7	0	7	0	7
100			min	0	1	0	1	-0.905	3	0	1	0	1	0	1	0	1
101	M11	1	max	0	5	0	7	0.905	5	0	7	0	7	0	7	0	7
102			min	0	1	0	1	0.155	1	0	1	0	1	0	1	0	1
103		2	max	0	5	0	7	0.453	5	0	7	0	7	12.707	5	-2.178	4
104			min	0	1	0	1	0.078	1	0	1	0	1	2.178	1	-12.707	3
105		3	max	0	5	0	7	0	7	0	7	0	7	16.943	5	-2.905	4
106			min	0	1	0	1	0	1	0	1	0	1	2.905	1	-16.943	3
107		4	max	0	5	0	7	-0.078	4	0	7	0	7	12.707	5	-2.178	4
108			min	0	1	0	1	-0.453	3	0	1	0	1	2.178	1	-12.707	3
109		5	max	0	5	0	7	-0.155	4	0	7	0	7	0	7	0	7
110			min	0	1	0	1	-0.905	3	0	1	0	1	0	1	0	1
111	M12	1	max	0	4	0	7	0.905	5	0	7	0	7	0	7	0	7
112			min	0	3	0	1	0.155	1	0	1	0	1	0	1	0	1
113		2	max	0	4	0	7	0.453	5	0	7	0	7	12.707	5	-2.178	4
114			min	0	3	0	1	0.078	1	0	1	0	1	2.178	1	-12.707	3
115		3	max	0	4	0	7	0	7	0	7	0	7	16.943	5	-2.905	4
116			min	0	3	0	1	0	1	0	1	0	1	2.905	1	-16.943	3
117		4	max	0	4	0	7	-0.078	4	0	7	0	7	12.707	5	-2.178	4
118			min	0	3	0	1	-0.453	3	0	1	0	1	2.178	1	-12.707	3
119		5	max	0	4	0	7	-0.155	4	0	7	0	7	0	7	0	7
120			min	0	3	0	1	-0.905	3	0	1	0	1	0	1	0	1
121	M13	1	max	0	5	0	7	0.905	5	0	7	0	7	0	7	0	7
122			min	0	1	0	1	0.155	1	0	1	0	1	0	1	0	1
123		2	max	0	5	0	7	0.453	5	0	7	0	7	12.707	5	-2.178	4
124			min	0	1	0	1	0.078	1	0	1	0	1	2.178	1	-12.707	3
125		3	max	0	5	0	7	0	7	0	7	0	7	16.943	5	-2.905	4
126			min	0	1	0	1	0	1	0	1	0	1	2.905	1	-16.943	3
127		4	max	0	5	0	7	-0.078	4	0	7	0	7	12.707	5	-2.178	4
128			min	0	1	0	1	-0.453	3	0	1	0	1	2.178	1	-12.707	3

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
129		5	max	0	5	0	7	-0.155	4	0	7	0	7	0	7	0	7
130			min	0	1	0	1	-0.905	3	0	1	0	1	0	1	0	1
131	M14	1	max	0	7	0	7	0.005	7	0	7	0	7	0	7	0	7
132			min	0	3	0	1	0	2	0	1	0	1	0	1	0	1
133		2	max	0	7	0	7	0.003	7	0	7	0	7	0.073	7	0	2
134			min	0	3	0	1	0	2	0	1	0	1	0	2	-0.073	1
135		3	max	0	7	0	7	0	7	0	7	0	7	0.097	7	0	2
136			min	0	3	0	1	0	1	0	1	0	1	0	2	-0.097	1
137		4	max	0	7	0	7	0	2	0	7	0	7	0.073	7	0	2
138			min	0	3	0	1	-0.003	1	0	1	0	1	0	2	-0.073	1
139		5	max	0	7	0	7	0	2	0	7	0	7	0	7	0	7
140			min	0	3	0	1	-0.005	1	0	1	0	1	0	1	0	1
141	M15	1	max	0	7	0	7	0.005	7	0	7	0	7	0	7	0	7
142			min	0	1	0	1	0	2	0	1	0	1	0	1	0	1
143		2	max	0	7	0	7	0.003	7	0	7	0	7	0.073	7	0	2
144			min	0	1	0	1	0	2	0	1	0	1	0	2	-0.073	1
145		3	max	0	7	0	7	0	7	0	7	0	7	0.097	7	0	2
146			min	0	1	0	1	0	1	0	1	0	1	0	2	-0.097	1
147		4	max	0	7	0	7	0	2	0	7	0	7	0.073	7	0	2
148			min	0	1	0	1	-0.003	1	0	1	0	1	0	2	-0.073	1
149		5	max	0	7	0	7	0	2	0	7	0	7	0	7	0	7
150			min	0	1	0	1	-0.005	1	0	1	0	1	0	1	0	1
151	M16	1	max	0	4	0	4	0.456	5	0	7	0	7	0	7	0	7
152			min	-0.001	3	-0.006	3	0.125	1	0	1	0	1	0	1	0	1
153		2	max	0	4	0	4	0.456	5	0	4	0.015	5	0.853	5	-0.233	4
154			min	-0.001	3	-0.006	3	0.124	1	-0.004	3	0.001	1	0.233	1	-0.853	3
155		3	max	0	4	0	4	0.455	5	0	4	0.029	5	1.706	5	-0.465	4
156			min	-0.001	3	-0.006	3	0.124	1	-0.008	3	0.002	1	0.465	1	-1.706	3
157		4	max	0	4	0	4	0.455	5	-0.001	4	0.044	5	2.558	5	-0.697	4
158			min	-0.001	3	-0.006	3	0.124	1	-0.012	3	0.003	1	0.697	1	-2.558	3
159		5	max	0	4	0	4	0.455	5	-0.001	4	0.058	5	3.41	5	-0.929	4
160			min	-0.001	3	-0.006	3	0.124	1	-0.016	3	0.003	1	0.929	1	-3.41	3
161	M17	1	max	1.261	5	0	4	0	6	0	7	0	7	0	7	0	7
162			min	0.316	1	-0.001	3	0	3	0	1	0	1	0	1	0	1
163		2	max	1.258	5	0	4	0	6	-0.002	4	0.018	5	0	4	0	5
164			min	0.314	1	-0.001	3	0	3	-0.018	3	0.002	1	0	3	0	1
165		3	max	1.256	5	0	4	0	6	-0.004	4	0.036	5	0	4	0	5
166			min	0.312	1	-0.001	3	0	3	-0.036	3	0.004	1	0	3	0	1
167		4	max	1.254	5	0	4	0	6	-0.006	4	0.054	5	0	4	0	5
168			min	0.31	1	-0.001	3	0	3	-0.054	3	0.006	1	0	3	0	1
169		5	max	1.252	5	0	4	0	6	-0.008	4	0.072	5	0	4	0	5
170			min	0.308	1	-0.001	3	0	3	-0.072	3	0.008	1	0	3	0	1
171	M18	1	max	1.261	5	0	4	0	5	0	7	0	7	0	7	0	7
172			min	0.316	1	-0.001	3	0	1	0	1	0	1	0	1	0	1
173		2	max	1.258	5	0	4	0	5	-0.002	4	0.018	5	0	5	0	4
174			min	0.314	1	-0.001	3	0	1	-0.018	3	0.002	1	0	1	0	3
175		3	max	1.256	5	0	4	0	5	-0.004	4	0.036	5	0	5	0	4
176			min	0.312	1	-0.001	3	0	1	-0.036	3	0.004	1	0	1	0	3
177		4	max	1.254	5	0	4	0	5	-0.006	4	0.054	5	0	5	0	4
178			min	0.31	1	-0.001	3	0	1	-0.054	3	0.006	1	0	1	0	3
179		5	max	1.252	5	0	4	0	5	-0.008	4	0.072	5	0	5	0	4
180			min	0.308	1	-0.001	3	0	1	-0.072	3	0.008	1	0	1	0	3
181	M19	1	max	0	7	0	7	0.08	7	0	7	0	7	0	7	0	7
182			min	0	1	0	1	0	2	0	1	0	1	0	1	0	1
183		2	max	0	7	0	7	0.04	7	0	7	0	7	1.126	7	0	2

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
184			min	0	1	0	1	0	2	0	1	0	1	0	2	-1.126	1
185		3	max	0	7	0	7	0	7	0	7	0	7	1.501	7	0	2
186			min	0	1	0	1	0	1	0	1	0	1	0	2	-1.501	1
187		4	max	0	7	0	7	0	2	0	7	0	7	1.126	7	0	2
188			min	0	1	0	1	-0.04	1	0	1	0	1	0	2	-1.126	1
189		5	max	0	7	0	7	0	2	0	7	0	7	0	7	0	7
190			min	0	1	0	1	-0.08	1	0	1	0	1	0	1	0	1
191	M20	1	max	0	4	0	7	0.905	5	0	7	0	7	0	7	0	7
192			min	0	3	0	1	0.155	1	0	1	0	1	0	1	0	1
193		2	max	0	4	0	7	0.453	5	0	7	0	7	12.707	5	-2.178	4
194			min	0	3	0	1	0.078	1	0	1	0	1	2.178	1	-12.707	3
195		3	max	0	4	0	7	0	7	0	7	0	7	16.943	5	-2.905	4
196			min	0	3	0	1	0	1	0	1	0	1	2.905	1	-16.943	3
197		4	max	0	4	0	7	-0.078	4	0	7	0	7	12.707	5	-2.178	4
198			min	0	3	0	1	-0.453	3	0	1	0	1	2.178	1	-12.707	3
199		5	max	0	4	0	7	-0.155	4	0	7	0	7	0	7	0	7
200			min	0	3	0	1	-0.905	3	0	1	0	1	0	1	0	1
201	M21	1	max	0	4	0	7	0.905	5	0	7	0	7	0	7	0	7
202			min	0	3	0	1	0.155	1	0	1	0	1	0	1	0	1
203		2	max	0	4	0	7	0.453	5	0	7	0	7	12.707	5	-2.178	4
204			min	0	3	0	1	0.078	1	0	1	0	1	2.178	1	-12.707	3
205		3	max	0	4	0	7	0	7	0	7	0	7	16.943	5	-2.905	4
206			min	0	3	0	1	0	1	0	1	0	1	2.905	1	-16.943	3
207		4	max	0	4	0	7	-0.078	4	0	7	0	7	12.707	5	-2.178	4
208			min	0	3	0	1	-0.453	3	0	1	0	1	2.178	1	-12.707	3
209		5	max	0	4	0	7	-0.155	4	0	7	0	7	0	7	0	7
210			min	0	3	0	1	-0.905	3	0	1	0	1	0	1	0	1
211	M22	1	max	0	5	0	7	0.14	5	-0.007	4	0.134	5	3.375	5	-0.919	4
212			min	0	1	0	1	0.02	6	-0.037	3	0.025	1	0.919	1	-3.375	3
213		2	max	0	5	0	7	0.07	5	-0.007	4	0.134	5	4.948	5	-1.145	4
214			min	0	1	0	1	0.01	6	-0.037	3	0.025	1	1.145	1	-4.948	3
215		3	max	0	5	0	7	0	7	-0.007	4	0.134	5	5.473	5	-1.22	4
216			min	0	1	0	1	0	1	-0.037	3	0.025	1	1.22	1	-5.473	3
217		4	max	0	5	0	7	-0.01	4	-0.007	4	0.134	5	4.948	5	-1.145	4
218			min	0	1	0	1	-0.07	3	-0.037	3	0.025	1	1.145	1	-4.948	3
219		5	max	0	5	0	7	-0.02	4	-0.007	4	0.134	5	3.375	5	-0.919	4
220			min	0	1	0	1	-0.14	3	-0.037	3	0.025	1	0.919	1	-3.375	3
221	M23	1	max	0.008	2	0.018	6	-0.001	4	1.088	5	-0.305	4	0.661	5	-0.106	4
222			min	-0.011	6	-0.015	2	-0.005	3	0.305	1	-1.088	3	0.106	1	-0.661	3
223		2	max	0.008	2	0.006	6	-0.001	4	1.067	5	-0.313	4	0.332	5	-0.053	4
224			min	-0.004	6	-0.015	2	-0.005	3	0.313	1	-1.067	3	0.053	1	-0.332	3
225		3	max	0.009	5	-0.004	4	-0.001	4	1.035	5	-0.311	4	0.002	5	-0.001	4
226			min	0.002	1	-0.018	3	-0.005	3	0.311	1	-1.035	3	0.001	1	-0.002	3
227		4	max	0.014	7	-0.009	4	-0.001	4	0.993	5	-0.299	4	-0.052	4	0.327	5
228			min	0.005	1	-0.027	7	-0.005	3	0.299	1	-0.993	3	-0.327	3	0.052	1
229		5	max	0.02	7	-0.014	4	-0.001	4	0.941	5	-0.276	4	-0.105	4	0.656	5
230			min	0.008	2	-0.038	7	-0.005	3	0.276	1	-0.941	3	-0.656	3	0.105	1
231	M24	1	max	2.314	5	0	4	0	6	0	7	0	7	0	7	0	7
232			min	0.428	1	0	3	0	3	0	1	0	1	0	1	0	1
233		2	max	2.312	5	0	4	0	6	0	4	0.002	5	0	4	0	5
234			min	0.426	1	0	3	0	3	-0.002	3	0	1	0	3	0	1
235		3	max	2.309	5	0	4	0	6	0	4	0.004	5	0	4	0	5
236			min	0.424	1	0	3	0	3	-0.004	3	0	1	0	3	0	1
237		4	max	2.307	5	0	4	0	6	-0.001	4	0.006	5	0	4	0	5
238			min	0.422	1	0	3	0	3	-0.006	3	0.001	1	0	3	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
239		5	max	2.305	5	0	4	0	6	-0.001	4	0.007	5	0	4	0	5
240			min	0.42	1	0	3	0	3	-0.007	3	0.001	1	0	3	0	1
241	M25	1	max	2.314	5	0	4	0	7	0	7	0	7	0	7	0	7
242			min	0.428	1	0	3	0	1	0	1	0	1	0	1	0	1
243		2	max	2.312	5	0	4	0	7	0	4	0.002	5	0	4	0	5
244			min	0.426	1	0	3	0	1	-0.002	3	0	1	0	3	0	1
245		3	max	2.31	5	0	4	0	7	0	4	0.003	5	0	4	0	5
246			min	0.424	1	0	3	0	1	-0.003	3	0	1	0	3	0	1
247		4	max	2.308	5	0	4	0	7	-0.001	4	0.005	5	0	4	0	5
248			min	0.422	1	0	3	0	1	-0.005	3	0.001	1	0	3	0	1
249		5	max	2.306	5	0	4	0	7	-0.001	4	0.007	5	0	4	0	5
250			min	0.42	1	0	3	0	1	-0.007	3	0.001	1	0	3	0	1
251	M26	1	max	0.008	2	0.018	6	0.005	5	1.088	5	-0.305	4	-0.106	4	0.661	5
252			min	-0.011	6	-0.015	2	0.001	1	0.305	1	-1.088	3	-0.661	3	0.106	1
253		2	max	0.008	2	0.006	6	0.005	5	1.067	5	-0.313	4	-0.053	4	0.332	5
254			min	-0.004	6	-0.015	2	0.001	1	0.313	1	-1.067	3	-0.332	3	0.053	1
255		3	max	0.009	5	-0.004	4	0.005	5	1.035	5	-0.311	4	-0.001	4	0.002	5
256			min	0.002	1	-0.018	3	0.001	1	0.311	1	-1.035	3	-0.002	3	0.001	1
257		4	max	0.014	7	-0.009	4	0.005	5	0.993	5	-0.299	4	0.327	5	-0.052	4
258			min	0.005	1	-0.027	7	0.001	1	0.299	1	-0.993	3	0.052	1	-0.327	3
259		5	max	0.02	7	-0.014	4	0.005	5	0.941	5	-0.276	4	0.656	5	-0.105	4
260			min	0.008	2	-0.038	7	0.001	1	0.276	1	-0.941	3	0.105	1	-0.656	3
261	M27	1	max	2.314	5	0	4	0	5	0	7	0	7	0	7	0	7
262			min	0.428	1	0	3	0	1	0	1	0	1	0	1	0	1
263		2	max	2.312	5	0	4	0	5	0	4	0.002	5	0	5	0	4
264			min	0.426	1	0	3	0	1	-0.002	3	0	1	0	1	0	3
265		3	max	2.309	5	0	4	0	5	0	4	0.004	5	0	5	0	4
266			min	0.424	1	0	3	0	1	-0.004	3	0	1	0	1	0	3
267		4	max	2.307	5	0	4	0	5	-0.001	4	0.006	5	0	5	0	4
268			min	0.422	1	0	3	0	1	-0.006	3	0.001	1	0	1	0	3
269		5	max	2.305	5	0	4	0	5	-0.001	4	0.007	5	0	5	0	4
270			min	0.42	1	0	3	0	1	-0.007	3	0.001	1	0	1	0	3
271	M28	1	max	2.314	5	0	4	0	7	0	7	0	7	0	7	0	7
272			min	0.428	1	0	3	0	1	0	1	0	1	0	1	0	1
273		2	max	2.312	5	0	4	0	7	0	4	0.002	5	0	5	0	4
274			min	0.426	1	0	3	0	1	-0.002	3	0	1	0	1	0	3
275		3	max	2.31	5	0	4	0	7	0	4	0.003	5	0	5	0	4
276			min	0.424	1	0	3	0	1	-0.003	3	0	1	0	1	0	3
277		4	max	2.308	5	0	4	0	7	-0.001	4	0.005	5	0	5	0	4
278			min	0.422	1	0	3	0	1	-0.005	3	0.001	1	0	1	0	3
279		5	max	2.306	5	0	4	0	7	-0.001	4	0.007	5	0	5	0	4
280			min	0.42	1	0	3	0	1	-0.007	3	0.001	1	0	1	0	3
281	M29	1	max	0	4	0.006	5	-0.124	4	-0.001	4	0.058	5	3.41	5	-0.929	4
282			min	-0.001	3	0	1	-0.455	3	-0.016	3	0.003	1	0.929	1	-3.41	3
283		2	max	0	4	0.006	5	-0.124	4	-0.001	4	0.044	5	2.558	5	-0.697	4
284			min	-0.001	3	0	1	-0.455	3	-0.012	3	0.003	1	0.697	1	-2.558	3
285		3	max	0	4	0.006	5	-0.124	4	0	4	0.029	5	1.706	5	-0.465	4
286			min	-0.001	3	0	1	-0.455	3	-0.008	3	0.002	1	0.465	1	-1.706	3
287		4	max	0	4	0.006	5	-0.124	4	0	4	0.015	5	0.853	5	-0.233	4
288			min	-0.001	3	0	1	-0.456	3	-0.004	3	0.001	1	0.233	1	-0.853	3
289		5	max	0	4	0.006	5	-0.125	4	0	7	0	7	0	7	0	7
290			min	-0.001	3	0	1	-0.456	3	0	1	0	1	0	1	0	1
291	M30	1	max	0.093	5	-0.035	4	0.005	5	0.941	5	-0.276	4	-0.104	4	0.652	5
292			min	0.021	1	-0.163	3	0.001	1	0.276	1	-0.941	3	-0.652	3	0.104	1
293		2	max	0.096	5	-0.041	4	0.005	5	0.615	7	-0.2	4	-0.052	4	0.326	5

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
294			min	0.024	1	-0.168	3	0.001	1	0.2	1	-0.615	7	-0.326	3	0.052	1
295		3	max	0.099	5	-0.046	4	0.005	5	0.297	7	-0.114	4	0	4	0	5
296			min	0.027	1	-0.174	3	0.001	1	0.114	1	-0.297	7	0	3	0	1
297		4	max	0.102	5	-0.051	4	0.005	5	0.038	6	0.099	2	0.326	5	-0.052	4
298			min	0.03	1	-0.179	3	0.001	1	-0.099	2	-0.038	6	0.052	1	-0.326	3
299		5	max	0.107	7	-0.056	4	0.005	5	-0.089	4	0.443	5	0.652	5	-0.104	4
300			min	0.033	1	-0.186	7	0.001	1	-0.443	3	0.089	1	0.104	1	-0.652	3
301	M31	1	max	0.093	5	-0.035	4	-0.001	4	0.941	5	-0.276	4	0.652	5	-0.104	4
302			min	0.021	1	-0.163	3	-0.005	3	0.276	1	-0.941	3	0.104	1	-0.652	3
303		2	max	0.096	5	-0.041	4	-0.001	4	0.615	7	-0.2	4	0.326	5	-0.052	4
304			min	0.024	1	-0.168	3	-0.005	3	0.2	1	-0.615	7	0.052	1	-0.326	3
305		3	max	0.099	5	-0.046	4	-0.001	4	0.297	7	-0.114	4	0	5	0	4
306			min	0.027	1	-0.174	3	-0.005	3	0.114	1	-0.297	7	0	1	0	3
307		4	max	0.102	5	-0.051	4	-0.001	4	0.038	6	0.099	2	-0.052	4	0.326	5
308			min	0.03	1	-0.179	3	-0.005	3	-0.099	2	-0.038	6	-0.326	3	0.052	1
309		5	max	0.107	7	-0.056	4	-0.001	4	-0.089	4	0.443	5	-0.104	4	0.652	5
310			min	0.033	1	-0.186	7	-0.005	3	-0.443	3	0.089	1	-0.652	3	0.104	1
311	M32	1	max	0.184	5	-0.077	4	0.005	5	-0.089	4	0.443	5	-0.104	4	0.652	5
312			min	0.045	1	-0.318	3	0.001	1	-0.443	3	0.089	1	-0.652	3	0.104	1
313		2	max	0.187	5	-0.083	4	0.005	5	-0.248	4	1.083	5	-0.052	4	0.326	5
314			min	0.048	1	-0.324	3	0.001	1	-1.083	3	0.248	1	-0.326	3	0.052	1
315		3	max	0.19	5	-0.088	4	0.005	5	-0.418	4	1.733	5	0	7	0	7
316			min	0.051	1	-0.329	3	0.001	1	-1.733	3	0.418	1	0	1	0	1
317		4	max	0.193	5	-0.093	4	0.005	5	-0.598	4	2.393	5	0.326	5	-0.052	4
318			min	0.054	1	-0.334	3	0.001	1	-2.393	3	0.598	1	0.052	1	-0.326	3
319		5	max	0.196	5	-0.098	4	0.005	5	-0.788	4	3.064	5	0.652	5	-0.104	4
320			min	0.057	1	-0.339	3	0.001	1	-3.064	3	0.788	1	0.104	1	-0.652	3
321	M33	1	max	0.184	5	-0.077	4	-0.001	4	-0.089	4	0.443	5	0.652	5	-0.104	4
322			min	0.045	1	-0.318	3	-0.005	3	-0.443	3	0.089	1	0.104	1	-0.652	3
323		2	max	0.187	5	-0.083	4	-0.001	4	-0.248	4	1.083	5	0.326	5	-0.052	4
324			min	0.048	1	-0.324	3	-0.005	3	-1.083	3	0.248	1	0.052	1	-0.326	3
325		3	max	0.19	5	-0.088	4	-0.001	4	-0.418	4	1.733	5	0	7	0	7
326			min	0.051	1	-0.329	3	-0.005	3	-1.733	3	0.418	1	0	1	0	1
327		4	max	0.193	5	-0.093	4	-0.001	4	-0.598	4	2.393	5	-0.052	4	0.326	5
328			min	0.054	1	-0.334	3	-0.005	3	-2.393	3	0.598	1	-0.326	3	0.052	1
329		5	max	0.196	5	-0.098	4	-0.001	4	-0.788	4	3.064	5	-0.104	4	0.652	5
330			min	0.057	1	-0.339	3	-0.005	3	-3.064	3	0.788	1	-0.652	3	0.104	1
331	M34	1	max	-0.058	4	0.355	5	0.005	5	-0.788	4	3.064	5	-0.104	4	0.652	5
332			min	-0.207	3	0.1	1	0.001	1	-3.064	3	0.788	1	-0.652	3	0.104	1
333		2	max	-0.055	4	0.35	5	0.005	5	-0.594	4	2.362	5	-0.052	4	0.326	5
334			min	-0.204	3	0.095	1	0.001	1	-2.362	3	0.594	1	-0.326	3	0.052	1
335		3	max	-0.052	4	0.344	5	0.005	5	-0.411	4	1.67	5	0	7	0	7
336			min	-0.201	3	0.09	1	0.001	1	-1.67	3	0.411	1	0	1	0	1
337		4	max	-0.049	4	0.339	5	0.005	5	-0.237	4	0.989	5	0.326	5	-0.052	4
338			min	-0.198	3	0.084	1	0.001	1	-0.989	3	0.237	1	0.052	1	-0.326	3
339		5	max	-0.046	4	0.334	5	0.005	5	-0.074	4	0.318	5	0.652	5	-0.104	4
340			min	-0.195	3	0.079	1	0.001	1	-0.318	3	0.074	1	0.104	1	-0.652	3
341	M35	1	max	-0.058	4	0.355	5	-0.001	4	-0.788	4	3.064	5	0.652	5	-0.104	4
342			min	-0.207	3	0.1	1	-0.005	3	-3.064	3	0.788	1	0.104	1	-0.652	3
343		2	max	-0.055	4	0.35	5	-0.001	4	-0.594	4	2.362	5	0.326	5	-0.052	4
344			min	-0.204	3	0.095	1	-0.005	3	-2.362	3	0.594	1	0.052	1	-0.326	3
345		3	max	-0.052	4	0.344	5	-0.001	4	-0.411	4	1.67	5	0	7	0	7
346			min	-0.201	3	0.09	1	-0.005	3	-1.67	3	0.411	1	0	1	0	1
347		4	max	-0.049	4	0.339	5	-0.001	4	-0.237	4	0.989	5	-0.052	4	0.326	5
348			min	-0.198	3	0.084	1	-0.005	3	-0.989	3	0.237	1	-0.326	3	0.052	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
349		5	max	-0.046	4	0.334	5	-0.001	4	-0.074	4	0.318	5	-0.104	4	0.652	5
350			min	-0.195	3	0.079	1	-0.005	3	-0.318	3	0.074	1	-0.652	3	0.104	1
351	M36	1	max	-0.034	4	0.2	5	0.005	5	-0.074	4	0.318	5	-0.104	4	0.652	5
352			min	-0.117	3	0.058	1	0.001	1	-0.318	3	0.074	1	-0.652	3	0.104	1
353		2	max	-0.031	4	0.195	5	0.005	5	0.081	7	-0.036	4	-0.052	4	0.326	5
354			min	-0.114	3	0.053	1	0.001	1	0.036	1	-0.081	7	-0.326	3	0.052	1
355		3	max	-0.028	4	0.19	5	0.005	5	0.459	5	-0.136	4	0	5	0	4
356			min	-0.111	3	0.048	1	0.001	1	0.136	1	-0.459	3	0	1	0	3
357		4	max	-0.025	4	0.184	5	0.005	5	0.831	5	-0.226	4	0.326	5	-0.052	4
358			min	-0.108	3	0.042	1	0.001	1	0.226	1	-0.831	3	0.052	1	-0.326	3
359		5	max	-0.022	4	0.179	5	0.005	5	1.194	5	-0.306	4	0.652	5	-0.104	4
360			min	-0.105	3	0.037	1	0.001	1	0.306	1	-1.194	3	0.104	1	-0.652	3
361	M37	1	max	-0.034	4	0.2	5	-0.001	4	-0.074	4	0.318	5	0.652	5	-0.104	4
362			min	-0.117	3	0.058	1	-0.005	3	-0.318	3	0.074	1	0.104	1	-0.652	3
363		2	max	-0.031	4	0.195	5	-0.001	4	0.081	7	-0.036	4	0.326	5	-0.052	4
364			min	-0.114	3	0.053	1	-0.005	3	0.036	1	-0.081	7	0.052	1	-0.326	3
365		3	max	-0.028	4	0.19	5	-0.001	4	0.459	5	-0.136	4	0	4	0	5
366			min	-0.111	3	0.048	1	-0.005	3	0.136	1	-0.459	3	0	3	0	1
367		4	max	-0.025	4	0.184	5	-0.001	4	0.831	5	-0.226	4	-0.052	4	0.326	5
368			min	-0.108	3	0.042	1	-0.005	3	0.226	1	-0.831	3	-0.326	3	0.052	1
369		5	max	-0.022	4	0.179	5	-0.001	4	1.194	5	-0.306	4	-0.104	4	0.652	5
370			min	-0.105	3	0.037	1	-0.005	3	0.306	1	-1.194	3	-0.652	3	0.104	1
371	M38	1	max	-0.009	4	0.05	7	0.006	5	1.194	5	-0.306	4	-0.117	6	0.758	5
372			min	-0.029	7	0.016	1	0.001	6	0.306	1	-1.194	3	-0.758	3	0.117	6
373		2	max	-0.006	4	0.04	7	0.006	5	1.278	5	-0.332	4	-0.055	6	0.353	5
374			min	-0.023	7	0.011	1	0.001	6	0.332	1	-1.278	3	-0.353	3	0.055	6
375		3	max	-0.003	4	0.035	5	0.006	5	1.352	5	-0.348	4	0.053	5	-0.006	6
376			min	-0.02	3	0.006	1	0.001	6	0.348	1	-1.352	3	0.006	6	-0.053	3
377		4	max	0.002	6	0.03	5	0.006	5	1.416	5	-0.354	4	0.459	5	-0.068	6
378			min	-0.017	3	-0.004	6	0.001	6	0.354	1	-1.416	3	0.068	6	-0.459	3
379		5	max	0.009	6	0.029	2	0.006	5	1.47	5	-0.35	4	0.865	5	-0.129	6
380			min	-0.017	2	-0.016	6	0.001	6	0.35	1	-1.47	3	0.129	6	-0.865	3
381	M39	1	max	-0.009	4	0.05	7	-0.001	6	1.194	5	-0.306	4	0.758	5	-0.117	6
382			min	-0.029	7	0.016	1	-0.006	3	0.306	1	-1.194	3	0.117	6	-0.758	3
383		2	max	-0.006	4	0.04	7	-0.001	6	1.278	5	-0.332	4	0.353	5	-0.055	6
384			min	-0.023	7	0.011	1	-0.006	3	0.332	1	-1.278	3	0.055	6	-0.353	3
385		3	max	-0.003	4	0.035	5	-0.001	6	1.352	5	-0.348	4	-0.006	6	0.053	5
386			min	-0.02	3	0.006	1	-0.006	3	0.348	1	-1.352	3	-0.053	3	0.006	6
387		4	max	0.002	6	0.03	5	-0.001	6	1.416	5	-0.354	4	-0.068	6	0.459	5
388			min	-0.017	3	-0.004	6	-0.006	3	0.354	1	-1.416	3	-0.459	3	0.068	6
389		5	max	0.009	6	0.029	2	-0.001	6	1.47	5	-0.35	4	-0.129	6	0.865	5
390			min	-0.017	2	-0.016	6	-0.006	3	0.35	1	-1.47	3	-0.865	3	0.129	6
391	M40	1	max	0.101	5	-0.034	4	0.002	5	1.47	5	-0.35	4	-0.071	4	0.486	5
392			min	0.02	1	-0.174	3	0	1	0.35	1	-1.47	3	-0.486	3	0.071	1
393		2	max	0.104	5	-0.039	4	0.002	5	1.118	5	-0.278	4	-0.053	4	0.364	5
394			min	0.023	1	-0.179	3	0	1	0.278	1	-1.118	3	-0.364	3	0.053	1
395		3	max	0.107	5	-0.044	4	0.002	5	0.756	5	-0.196	4	-0.035	4	0.243	5
396			min	0.026	1	-0.184	3	0	1	0.196	1	-0.756	3	-0.243	3	0.035	1
397		4	max	0.11	5	-0.049	4	0.002	5	0.383	5	-0.103	4	-0.018	4	0.121	5
398			min	0.029	1	-0.19	3	0	1	0.103	1	-0.383	3	-0.121	3	0.018	1
399		5	max	0.113	5	-0.054	4	0.002	5	0	7	0	7	0	7	0	7
400			min	0.032	1	-0.195	3	0	1	0	1	0	1	0	1	0	1
401	M41	1	max	0.101	5	-0.034	4	0	4	1.47	5	-0.35	4	0.486	5	-0.071	4
402			min	0.02	1	-0.174	3	-0.002	3	0.35	1	-1.47	3	0.071	1	-0.486	3
403		2	max	0.104	5	-0.039	4	0	4	1.118	5	-0.278	4	0.364	5	-0.053	4

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
404			min	0.023	1	-0.179	3	-0.002	3	0.278	1	-1.118	3	0.053	1	-0.364	3
405		3	max	0.107	5	-0.044	4	0	4	0.756	5	-0.196	4	0.243	5	-0.035	4
406			min	0.026	1	-0.184	3	-0.002	3	0.196	1	-0.756	3	0.035	1	-0.243	3
407		4	max	0.11	5	-0.049	4	0	4	0.383	5	-0.103	4	0.121	5	-0.018	4
408			min	0.029	1	-0.19	3	-0.002	3	0.103	1	-0.383	3	0.018	1	-0.121	3
409		5	max	0.113	5	-0.054	4	0	4	0	7	0	7	0	7	0	7
410			min	0.032	1	-0.195	3	-0.002	3	0	1	0	1	0	1	0	1
411	M42	1	max	0.003	5	0	7	-0.15	4	0.016	5	-0.003	4	0.081	5	0.001	6
412			min	0	1	0	1	-0.942	3	0.003	1	-0.016	3	-0.006	6	-0.019	3
413		2	max	0.003	5	0	7	-0.075	4	0.016	5	-0.003	4	-0.866	4	1.267	5
414			min	0	1	0	1	-0.471	3	0.003	1	-0.016	3	-5.379	3	0.204	1
415		3	max	0.003	5	0	7	0	7	0.016	5	-0.003	4	-1.157	4	1.696	5
416			min	0	1	0	1	0	1	0.003	1	-0.016	3	-7.199	3	0.273	1
417		4	max	0.003	5	0	7	0.471	5	0.016	5	-0.003	4	-0.866	4	1.267	5
418			min	0	1	0	1	0.075	6	0.003	1	-0.016	3	-5.379	3	0.204	1
419		5	max	0.003	5	0	7	0.942	5	0.016	5	-0.003	4	0.081	5	0.001	6
420			min	0	1	0	1	0.15	6	0.003	1	-0.016	3	-0.006	6	-0.019	3
421	M43	1	max	0	4	0	7	-0.15	6	0.016	5	-0.003	4	0.182	5	-0.007	6
422			min	0	3	0	1	-0.942	3	0.003	1	-0.016	3	0.029	6	-0.043	3
423		2	max	0	4	0	7	-0.075	6	0.016	5	-0.003	4	-0.843	4	1.244	5
424			min	0	3	0	1	-0.471	3	0.003	1	-0.016	3	-5.278	3	0.199	1
425		3	max	0	4	0	7	0	7	0.016	5	-0.003	4	-1.134	4	1.672	5
426			min	0	3	0	1	0	1	0.003	1	-0.016	3	-7.098	3	0.267	1
427		4	max	0	4	0	7	0.471	5	0.016	5	-0.003	4	-0.843	4	1.244	5
428			min	0	3	0	1	0.075	1	0.003	1	-0.016	3	-5.278	3	0.199	1
429		5	max	0	4	0	7	0.942	5	0.016	5	-0.003	4	0.182	5	-0.007	6
430			min	0	3	0	1	0.15	1	0.003	1	-0.016	3	0.029	6	-0.043	3
431	M44	1	max	0	6	0	7	-0.15	6	0.016	5	-0.003	4	0.182	5	-0.007	6
432			min	0	3	0	1	-0.942	3	0.003	1	-0.016	3	0.029	6	-0.043	3
433		2	max	0	6	0	7	-0.075	6	0.016	5	-0.003	4	-0.843	4	1.244	5
434			min	0	3	0	1	-0.471	3	0.003	1	-0.016	3	-5.278	3	0.199	1
435		3	max	0	6	0	7	0	7	0.016	5	-0.003	4	-1.133	4	1.672	5
436			min	0	3	0	1	0	1	0.003	1	-0.016	3	-7.098	3	0.267	1
437		4	max	0	6	0	7	0.471	5	0.016	5	-0.003	4	-0.843	4	1.244	5
438			min	0	3	0	1	0.075	1	0.003	1	-0.016	3	-5.278	3	0.199	1
439		5	max	0	6	0	7	0.942	5	0.016	5	-0.003	4	0.182	5	-0.007	6
440			min	0	3	0	1	0.15	1	0.003	1	-0.016	3	0.029	6	-0.043	3
441	M45	1	max	0	7	0	7	-0.15	6	0.016	5	-0.003	4	0.182	5	-0.007	6
442			min	0	1	0	1	-0.942	3	0.003	1	-0.016	3	0.029	6	-0.043	3
443		2	max	0	7	0	7	-0.075	6	0.016	5	-0.003	4	-0.843	4	1.244	5
444			min	0	1	0	1	-0.471	3	0.003	1	-0.016	3	-5.278	3	0.199	1
445		3	max	0	7	0	7	0	7	0.016	5	-0.003	4	-1.133	4	1.672	5
446			min	0	1	0	1	0	1	0.003	1	-0.016	3	-7.098	3	0.267	1
447		4	max	0	7	0	7	0.471	5	0.016	5	-0.003	4	-0.843	4	1.244	5
448			min	0	1	0	1	0.075	1	0.003	1	-0.016	3	-5.278	3	0.199	1
449		5	max	0	7	0	7	0.942	5	0.016	5	-0.003	4	0.182	5	-0.007	6
450			min	0	1	0	1	0.15	1	0.003	1	-0.016	3	0.029	6	-0.043	3
451	M46	1	max	0	5	0	7	-0.15	6	0.016	5	-0.003	4	0.182	5	-0.007	6
452			min	0	6	0	1	-0.942	3	0.003	1	-0.016	3	0.029	6	-0.043	3
453		2	max	0	5	0	7	-0.075	6	0.016	5	-0.003	4	-0.843	4	1.244	5
454			min	0	6	0	1	-0.471	3	0.003	1	-0.016	3	-5.278	3	0.199	1
455		3	max	0	5	0	7	0	7	0.016	5	-0.003	4	-1.133	4	1.672	5
456			min	0	6	0	1	0	1	0.003	1	-0.016	3	-7.098	3	0.267	1
457		4	max	0	5	0	7	0.471	5	0.016	5	-0.003	4	-0.843	4	1.244	5
458			min	0	6	0	1	0.075	1	0.003	1	-0.016	3	-5.278	3	0.199	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
459		5	max	0	5	0	7	0.942	5	0.016	5	-0.003	4	0.182	5	-0.007	6
460			min	0	6	0	1	0.15	1	0.003	1	-0.016	3	0.029	6	-0.043	3
461	M47	1	max	0.001	5	0	7	-0.15	6	0.019	5	-0.003	6	0.179	5	-0.007	6
462			min	0	6	0	1	-0.942	3	0.003	6	-0.019	3	0.029	6	-0.042	3
463		2	max	0.001	5	0	7	-0.075	6	0.019	5	-0.003	6	-0.843	4	1.244	5
464			min	0	6	0	1	-0.471	3	0.003	6	-0.019	3	-5.281	3	0.199	1
465		3	max	0.001	5	0	7	0	7	0.019	5	-0.003	6	-1.134	4	1.673	5
466			min	0	6	0	1	0	1	0.003	6	-0.019	3	-7.101	3	0.267	1
467		4	max	0.001	5	0	7	0.471	5	0.019	5	-0.003	6	-0.843	4	1.244	5
468			min	0	6	0	1	0.075	1	0.003	6	-0.019	3	-5.281	3	0.199	1
469		5	max	0.001	5	0	7	0.942	5	0.019	5	-0.003	6	0.179	5	-0.007	6
470			min	0	6	0	1	0.15	1	0.003	6	-0.019	3	0.029	6	-0.042	3
471	M48	1	max	-0.001	4	0	7	-0.203	6	0.016	5	-0.002	6	0.207	5	-0.007	6
472			min	-0.004	3	0	1	-1.39	3	0.002	6	-0.016	3	0.03	6	-0.049	3
473		2	max	-0.001	4	0	7	-0.101	6	0.016	5	-0.002	6	-1.147	4	1.85	5
474			min	-0.004	3	0	1	-0.695	3	0.002	6	-0.016	3	-7.852	3	0.27	1
475		3	max	-0.001	4	0	7	0	7	0.016	5	-0.002	6	-1.539	4	2.483	5
476			min	-0.004	3	0	1	0	1	0.002	6	-0.016	3	-10.539	3	0.363	1
477		4	max	-0.001	4	0	7	0.695	5	0.016	5	-0.002	6	-1.147	4	1.85	5
478			min	-0.004	3	0	1	0.101	1	0.002	6	-0.016	3	-7.852	3	0.27	1
479		5	max	-0.001	4	0	7	1.39	5	0.016	5	-0.002	6	0.207	5	-0.007	6
480			min	-0.004	3	0	1	0.203	1	0.002	6	-0.016	3	0.03	6	-0.049	3
481	M49	1	max	2.214	5	0	7	0	7	0	7	0	7	0	7	0	7
482			min	0.591	1	0	1	0	1	0	1	0	1	0	1	0	1
483		2	max	2.213	5	0	7	0	7	0	7	0	7	0	7	0	7
484			min	0.59	1	0	1	0	1	0	1	0	1	0	1	0	1
485		3	max	2.212	5	0	7	0	7	0	7	0	7	0	7	0	7
486			min	0.588	1	0	1	0	1	0	1	0	1	0	1	0	1
487		4	max	2.211	5	0	7	0	7	0	7	0	7	0	7	0	7
488			min	0.587	1	0	1	0	1	0	1	0	1	0	1	0	1
489		5	max	2.21	5	0	7	0	7	0	7	0	7	0	7	0	7
490			min	0.586	1	0	1	0	1	0	1	0	1	0	1	0	1
491	M50	1	max	2.214	5	0	7	0	7	0	7	0	7	0	7	0	7
492			min	0.591	1	0	1	0	1	0	1	0	1	0	1	0	1
493		2	max	2.213	5	0	7	0	7	0	7	0	7	0	7	0	7
494			min	0.59	1	0	1	0	1	0	1	0	1	0	1	0	1
495		3	max	2.212	5	0	7	0	7	0	7	0	7	0	7	0	7
496			min	0.588	1	0	1	0	1	0	1	0	1	0	1	0	1
497		4	max	2.211	5	0	7	0	7	0	7	0	7	0	7	0	7
498			min	0.587	1	0	1	0	1	0	1	0	1	0	1	0	1
499		5	max	2.21	5	0	7	0	7	0	7	0	7	0	7	0	7
500			min	0.586	1	0	1	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Deflections - Service

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1	M1	1	max	0.043	5	-0.011	4	0	5	0.005	5	NC	7	NC	7
2			min	0.01	1	-0.047	3	0	1	0.001	1	NC	1	NC	1
3		2	max	0.043	5	-0.011	4	0.003	5	0.004	5	NC	7	NC	6
4			min	0.01	1	-0.045	3	0.001	1	0.001	1	NC	1	4867.512	3
5		3	max	0.043	5	-0.01	4	0.005	5	0.004	5	NC	7	NC	6
6			min	0.01	1	-0.043	3	0.001	1	0.001	1	NC	1	3042.195	3
7		4	max	0.043	5	-0.01	4	0.005	5	0.003	5	NC	7	NC	6
8			min	0.01	1	-0.04	3	0.001	1	0.001	1	NC	1	3476.795	3
9		5	max	0.043	5	-0.009	4	0	5	0.002	5	NC	7	NC	7
10			min	0.01	1	-0.037	3	0	1	0	1	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
11	M2	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
12			min	0	1	0	1	0	1	0	1	NC	1	NC	1
13		2	max	-0.001	4	0	4	0	5	0	7	NC	7	NC	7
14			min	-0.006	3	0	3	0	1	0	1	NC	1	NC	1
15		3	max	-0.002	4	0	4	0	5	0	7	NC	7	NC	7
16			min	-0.012	3	-0.001	3	0	1	0	1	NC	1	NC	1
17		4	max	-0.003	4	0	4	0	5	0	7	NC	7	NC	7
18			min	-0.018	3	0	3	0	1	0	1	NC	1	NC	1
19		5	max	-0.004	4	0	7	0	7	0	7	NC	7	NC	7
20			min	-0.024	3	0	1	0	1	0	1	NC	1	NC	1
21	M3	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
22			min	0	1	0	1	0	1	0	1	NC	1	NC	1
23		2	max	-0.001	4	0	4	0	5	0	7	NC	7	NC	7
24			min	-0.004	3	-0.002	3	0	1	0	1	NC	1	NC	1
25		3	max	-0.002	4	0	4	0	5	0	7	NC	7	NC	7
26			min	-0.009	3	-0.004	3	0	1	0	1	NC	1	NC	1
27		4	max	-0.003	4	0	4	0	5	0	7	NC	7	NC	7
28			min	-0.013	3	-0.003	3	0	1	0	1	NC	1	NC	1
29		5	max	-0.004	4	0	7	0	7	0	7	NC	7	NC	7
30			min	-0.018	3	0	1	0	1	0	1	NC	1	NC	1
31	M4	1	max	0.043	5	-0.011	4	0	4	-0.001	4	NC	7	NC	7
32			min	0.01	1	-0.047	3	0	3	-0.005	3	NC	1	NC	1
33		2	max	0.043	5	-0.011	4	-0.001	4	-0.001	4	NC	7	NC	6
34			min	0.01	1	-0.045	3	-0.003	3	-0.004	3	NC	1	4867.512	3
35		3	max	0.043	5	-0.01	4	-0.001	4	-0.001	4	NC	7	NC	6
36			min	0.01	1	-0.043	3	-0.005	3	-0.004	3	NC	1	3042.195	3
37		4	max	0.043	5	-0.01	4	-0.001	4	-0.001	4	NC	7	NC	6
38			min	0.01	1	-0.04	3	-0.005	3	-0.003	3	NC	1	3476.795	3
39		5	max	0.043	5	-0.009	4	0	4	0	4	NC	7	NC	7
40			min	0.01	1	-0.037	3	0	3	-0.002	3	NC	1	NC	1
41	M5	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
42			min	0	1	0	1	0	1	0	1	NC	1	NC	1
43		2	max	-0.001	4	0	4	0	7	0	7	NC	7	NC	7
44			min	-0.006	3	0	3	0	3	0	1	NC	1	NC	1
45		3	max	-0.002	4	0	4	0	6	0	7	NC	7	NC	7
46			min	-0.012	3	-0.001	3	0	3	0	1	NC	1	NC	1
47		4	max	-0.003	4	0	4	0	6	0	7	NC	7	NC	7
48			min	-0.018	3	0	3	0	3	0	1	NC	1	NC	1
49		5	max	-0.004	4	0	7	0	7	0	7	NC	7	NC	7
50			min	-0.024	3	0	1	0	1	0	1	NC	1	NC	1
51	M6	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
52			min	0	1	0	1	0	1	0	1	NC	1	NC	1
53		2	max	-0.001	4	0	4	0	4	0	7	NC	7	NC	7
54			min	-0.004	3	-0.002	3	0	3	0	1	NC	1	NC	1
55		3	max	-0.002	4	0	4	0	4	0	7	NC	7	NC	7
56			min	-0.009	3	-0.004	3	0	3	0	1	NC	1	NC	1
57		4	max	-0.003	4	0	4	0	4	0	7	NC	7	NC	7
58			min	-0.013	3	-0.003	3	0	3	0	1	NC	1	NC	1
59		5	max	-0.004	4	0	7	0	7	0	7	NC	7	NC	7
60			min	-0.018	3	0	1	0	1	0	1	NC	1	NC	1
61	M7	1	max	0	7	0	7	-0.004	4	0	5	NC	7	NC	7
62			min	0	1	0	1	-0.024	3	0	1	NC	1	NC	1
63		2	max	0	7	0	7	-0.006	4	0	5	NC	7	NC	7
64			min	0	1	0	1	-0.026	3	0	1	NC	1	NC	1
65		3	max	0	7	0	7	-0.007	4	0	5	NC	7	NC	7

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
66			min	0	1	0	1	-0.026	3	0	1	NC	1	NC	1
67		4	max	0	7	0	7	-0.006	4	0	5	NC	7	NC	7
68			min	0	1	0	1	-0.026	3	0	1	NC	1	NC	1
69		5	max	0	7	0	7	-0.004	4	0	5	NC	7	NC	7
70			min	0	1	0	1	-0.024	3	0	1	NC	1	NC	1
71	M8	1	max	0	7	0	7	-0.004	4	0	7	NC	7	NC	7
72			min	0	1	0	1	-0.024	3	0	1	NC	1	NC	1
73		2	max	0	7	0	7	-0.052	4	0	7	NC	7	1249.381	4
74			min	0	1	0	1	-0.304	3	0	1	NC	1	214.183	3
75		3	max	0	7	0	7	-0.072	4	0	7	NC	7	890.184	4
76			min	0	1	0	1	-0.417	3	0	3	NC	1	152.605	3
77		4	max	0	7	0	7	-0.052	4	0	6	NC	7	1249.381	4
78			min	0	1	0	1	-0.304	3	0	3	NC	1	214.183	3
79		5	max	0	7	0	7	-0.004	4	0	6	NC	7	NC	7
80			min	0	1	0	1	-0.024	3	0	3	NC	1	NC	1
81	M9	1	max	0	7	0	7	-0.004	4	0	6	NC	7	NC	7
82			min	0	1	0	1	-0.024	3	0	3	NC	1	NC	1
83		2	max	0	7	0	7	-0.052	4	0	7	NC	7	1249.381	4
84			min	0	1	0	1	-0.304	3	0	1	NC	1	214.183	3
85		3	max	0	7	0	7	-0.072	4	0	7	NC	7	890.184	4
86			min	0	1	0	1	-0.417	3	0	1	NC	1	152.605	3
87		4	max	0	7	0	7	-0.052	4	0	7	NC	7	1249.381	4
88			min	0	1	0	1	-0.304	3	0	1	NC	1	214.183	3
89		5	max	0	7	0	7	-0.004	4	0	7	NC	7	NC	7
90			min	0	1	0	1	-0.024	3	0	1	NC	1	NC	1
91	M10	1	max	0	7	0	7	-0.004	4	0	6	NC	7	NC	7
92			min	0	1	0	1	-0.018	3	0	3	NC	1	NC	1
93		2	max	0	7	0	7	-0.052	4	0	6	NC	7	1249.381	4
94			min	0	1	0	1	-0.3	3	0	3	NC	1	214.183	3
95		3	max	0	7	0	7	-0.072	4	0	6	NC	7	890.184	4
96			min	0	1	0	1	-0.414	3	0	3	NC	1	152.605	3
97		4	max	0	7	0	7	-0.052	4	0	6	NC	7	1249.381	4
98			min	0	1	0	1	-0.303	3	0	3	NC	1	214.183	3
99		5	max	0	7	0	7	-0.004	4	0	6	NC	7	NC	7
100			min	0	1	0	1	-0.024	3	0	3	NC	1	NC	1
101	M11	1	max	0	7	0	7	-0.004	4	0	6	NC	7	NC	7
102			min	0	1	0	1	-0.024	3	0	3	NC	1	NC	1
103		2	max	0	7	0	7	-0.052	4	0	6	NC	7	1249.381	4
104			min	0	1	0	1	-0.304	3	0	3	NC	1	214.183	3
105		3	max	0	7	0	7	-0.072	4	0	7	NC	7	890.184	4
106			min	0	1	0	1	-0.417	3	0	3	NC	1	152.605	3
107		4	max	0	7	0	7	-0.052	4	0	7	NC	7	1249.381	4
108			min	0	1	0	1	-0.304	3	0	1	NC	1	214.183	3
109		5	max	0	7	0	7	-0.004	4	0	7	NC	7	NC	7
110			min	0	1	0	1	-0.024	3	0	1	NC	1	NC	1
111	M12	1	max	0	7	0	7	-0.004	4	0	7	NC	7	NC	7
112			min	0	1	0	1	-0.024	3	0	1	NC	1	NC	1
113		2	max	0	7	0	7	-0.052	4	0	7	NC	7	1249.381	4
114			min	0	1	0	1	-0.304	3	0	1	NC	1	214.183	3
115		3	max	0	7	0	7	-0.072	4	0	7	NC	7	890.184	4
116			min	0	1	0	1	-0.417	3	0	1	NC	1	152.605	3
117		4	max	0	7	0	7	-0.052	4	0	7	NC	7	1249.381	4
118			min	0	1	0	1	-0.304	3	0	1	NC	1	214.183	3
119		5	max	0	7	0	7	-0.004	4	0	6	NC	7	NC	7
120			min	0	1	0	1	-0.024	3	0	3	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
121	M13	1	max	0	7	0	7	-0.004	4	0	6	NC	7	NC	7
122			min	0	1	0	1	-0.024	3	0	3	NC	1	NC	1
123		2	max	0	7	0	7	-0.052	4	0	6	NC	7	1249.381	4
124			min	0	1	0	1	-0.303	3	0	3	NC	1	214.183	3
125		3	max	0	7	0	7	-0.072	4	0	6	NC	7	890.184	4
126			min	0	1	0	1	-0.414	3	0	3	NC	1	152.605	3
127		4	max	0	7	0	7	-0.052	4	0	6	NC	7	1249.381	4
128			min	0	1	0	1	-0.3	3	0	3	NC	1	214.183	3
129		5	max	0	7	0	7	-0.004	4	0	6	NC	7	NC	7
130			min	0	1	0	1	-0.018	3	0	3	NC	1	NC	1
131	M14	1	max	0	7	0	7	-0.004	4	0	4	NC	7	NC	7
132			min	0	1	0	1	-0.024	3	0	3	NC	1	NC	1
133		2	max	0	7	0	7	-0.006	4	0	4	NC	7	NC	7
134			min	0	1	0	1	-0.026	3	0	3	NC	1	NC	1
135		3	max	0	7	0	7	-0.007	4	0	4	NC	7	NC	7
136			min	0	1	0	1	-0.026	3	0	3	NC	1	NC	1
137		4	max	0	7	0	7	-0.006	4	0	4	NC	7	NC	7
138			min	0	1	0	1	-0.026	3	0	3	NC	1	NC	1
139		5	max	0	7	0	7	-0.004	4	0	4	NC	7	NC	7
140			min	0	1	0	1	-0.024	3	0	3	NC	1	NC	1
141	M15	1	max	0	7	0	7	-0.004	4	0	5	NC	7	NC	7
142			min	0	1	0	1	-0.024	3	0	1	NC	1	NC	1
143		2	max	0	7	0	7	-0.006	4	0	5	NC	7	NC	7
144			min	0	1	0	1	-0.026	3	0	1	NC	1	NC	1
145		3	max	0	7	0	7	-0.007	4	0	5	NC	7	NC	7
146			min	0	1	0	1	-0.026	3	0	1	NC	1	NC	1
147		4	max	0	7	0	7	-0.006	4	0	5	NC	7	NC	7
148			min	0	1	0	1	-0.026	3	0	1	NC	1	NC	1
149		5	max	0	7	0	7	-0.004	4	0	5	NC	7	NC	7
150			min	0	1	0	1	-0.024	3	0	1	NC	1	NC	1
151	M16	1	max	0	7	0	7	-0.004	4	0	5	NC	7	NC	7
152			min	0	1	0	1	-0.018	3	0	1	NC	1	NC	1
153		2	max	0	5	0	5	-0.007	4	0	5	NC	7	NC	7
154			min	0	1	0	1	-0.03	3	0	1	NC	1	NC	1
155		3	max	0	5	0.001	5	-0.009	4	0	5	NC	7	NC	7
156			min	0	1	0	1	-0.041	3	0	1	NC	1	NC	1
157		4	max	0	5	0.001	5	-0.012	4	0	5	NC	7	NC	7
158			min	0	1	0	1	-0.053	3	0	1	NC	1	NC	1
159		5	max	0	5	0.002	5	-0.015	4	0	5	NC	7	NC	7
160			min	0	1	0	1	-0.064	3	0	1	NC	1	NC	1
161	M17	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
162			min	0	1	0	1	0	1	0	1	NC	1	NC	1
163		2	max	-0.001	4	0.003	5	0	5	0	7	NC	7	NC	7
164			min	-0.003	3	0	1	0	1	0	1	NC	1	NC	1
165		3	max	-0.002	4	0.005	5	0	5	0	7	NC	7	NC	7
166			min	-0.007	3	0.001	1	0	1	0	1	NC	1	NC	1
167		4	max	-0.002	4	0.005	5	0	5	0	7	NC	7	NC	7
168			min	-0.01	3	0	1	0	1	0	1	NC	1	NC	1
169		5	max	-0.003	4	0	7	0	7	0	7	NC	7	NC	7
170			min	-0.013	3	0	1	0	1	0	1	NC	1	NC	1
171	M18	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
172			min	0	1	0	1	0	1	0	1	NC	1	NC	1
173		2	max	-0.001	4	0.003	5	0	4	0	7	NC	7	NC	7
174			min	-0.003	3	0	1	0	3	0	1	NC	1	NC	1
175		3	max	-0.002	4	0.005	5	0	4	0	7	NC	7	NC	7

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
176			min	-0.007	3	0.001	1	0	3	0	1	NC	1	NC	1
177		4	max	-0.002	4	0.005	5	0	4	0	7	NC	7	NC	7
178			min	-0.01	3	0	1	0	3	0	1	NC	1	NC	1
179		5	max	-0.003	4	0	7	0	7	0	7	NC	7	NC	7
180			min	-0.013	3	0	1	0	1	0	1	NC	1	NC	1
181	M19	1	max	0	7	0	7	-0.003	4	0	5	NC	7	NC	7
182			min	0	1	0	1	-0.013	3	0	1	NC	1	NC	1
183		2	max	0	7	0	7	-0.01	2	0	5	NC	7	NC	2
184			min	0	1	0	1	-0.038	3	0	1	NC	1	2418.12	1
185		3	max	0	7	0	7	-0.01	2	0	5	NC	7	NC	2
186			min	0	1	0	1	-0.048	3	0	1	NC	1	1722.91	1
187		4	max	0	7	0	7	-0.01	2	0	5	NC	7	NC	2
188			min	0	1	0	1	-0.038	3	0	1	NC	1	2418.12	6
189		5	max	0	7	0	7	-0.003	4	0	5	NC	7	NC	7
190			min	0	1	0	1	-0.013	3	0	1	NC	1	NC	1
191	M20	1	max	0	7	0	7	-0.004	4	0	6	NC	7	NC	7
192			min	0	1	0	1	-0.024	3	0	3	NC	1	NC	1
193		2	max	0	7	0	7	-0.052	4	0	6	NC	7	1249.381	4
194			min	0	1	0	1	-0.301	3	0	3	NC	1	214.183	3
195		3	max	0	7	0	7	-0.071	4	0	6	NC	7	890.184	4
196			min	0	1	0	1	-0.412	3	0	3	NC	1	152.605	3
197		4	max	0	7	0	7	-0.052	4	0	6	NC	7	1249.381	4
198			min	0	1	0	1	-0.296	3	0	3	NC	1	214.183	3
199		5	max	0	7	0	7	-0.003	4	0	6	NC	7	NC	7
200			min	0	1	0	1	-0.013	3	0	3	NC	1	NC	1
201	M21	1	max	0	7	0	7	-0.003	4	0	6	NC	7	NC	7
202			min	0	1	0	1	-0.013	3	0	3	NC	1	NC	1
203		2	max	0	7	0	7	-0.052	4	0	6	NC	7	1249.381	4
204			min	0	1	0	1	-0.296	3	0	3	NC	1	214.183	3
205		3	max	0	7	0	7	-0.071	4	0	6	NC	7	890.184	4
206			min	0	1	0	1	-0.412	3	0	3	NC	1	152.605	3
207		4	max	0	7	0	7	-0.052	4	0	6	NC	7	1249.381	4
208			min	0	1	0	1	-0.301	3	0	3	NC	1	214.183	3
209		5	max	0	7	0	7	-0.004	4	0	6	NC	7	NC	7
210			min	0	1	0	1	-0.024	3	0	3	NC	1	NC	1
211	M22	1	max	0	5	0.002	5	-0.015	4	0	5	NC	7	NC	7
212			min	0	1	0	1	-0.064	3	0	1	NC	1	NC	1
213		2	max	0	5	0.004	5	-0.03	4	0	5	NC	7	3103.631	4
214			min	0	1	0.001	1	-0.131	3	0	1	NC	1	713.138	3
215		3	max	0	7	0.005	5	-0.036	4	0	5	NC	7	2302.782	4
216			min	0	1	0.001	1	-0.155	3	0	1	NC	1	525.729	3
217		4	max	0	4	0.004	5	-0.03	4	0	5	NC	7	3103.631	4
218			min	0	3	0.001	1	-0.131	3	0	1	NC	1	713.138	3
219		5	max	0	4	0.002	5	-0.015	4	0	5	NC	7	NC	7
220			min	0	3	0	1	-0.064	3	0	1	NC	1	NC	1
221	M23	1	max	0.043	5	-0.009	4	0	5	0.002	5	NC	7	NC	7
222			min	0.01	1	-0.037	3	0	1	0	1	NC	1	NC	1
223		2	max	0.043	5	-0.009	4	0	4	0.002	5	NC	7	NC	6
224			min	0.01	1	-0.034	3	-0.003	3	0	1	NC	1	6024.258	3
225		3	max	0.043	5	-0.008	4	0	4	0.002	5	NC	7	NC	7
226			min	0.01	1	-0.03	3	0	3	0	1	NC	1	NC	1
227		4	max	0.043	5	-0.007	4	0.003	5	0.002	5	NC	7	NC	6
228			min	0.01	1	-0.025	3	0	6	0	1	NC	1	6288.542	3
229		5	max	0.043	5	-0.006	4	0	6	0.002	5	NC	7	NC	7
230			min	0.01	1	-0.02	3	0	3	0	1	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
231	M24	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
232			min	0	1	0	1	0	1	0	1	NC	1	NC	1
233		2	max	-0.001	4	0	5	0	5	0	7	NC	7	NC	7
234			min	-0.006	3	0	1	0	1	0	1	NC	1	NC	1
235		3	max	-0.002	4	0.001	5	0	5	0	7	NC	7	NC	7
236			min	-0.012	3	0	1	0	1	0	1	NC	1	NC	1
237		4	max	-0.003	4	0	5	0	5	0	7	NC	7	NC	7
238			min	-0.018	3	0	1	0	1	0	1	NC	1	NC	1
239		5	max	-0.004	4	0	7	0	7	0	7	NC	7	NC	7
240			min	-0.024	3	0	1	0	1	0	1	NC	1	NC	1
241	M25	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
242			min	0	1	0	1	0	1	0	1	NC	1	NC	1
243		2	max	-0.001	4	0	5	0	5	0	7	NC	7	NC	7
244			min	-0.006	3	0	1	0	1	0	1	NC	1	NC	1
245		3	max	-0.002	4	0	5	0	5	0	7	NC	7	NC	7
246			min	-0.012	3	0	1	0	1	0	1	NC	1	NC	1
247		4	max	-0.003	4	0	5	0	5	0	7	NC	7	NC	7
248			min	-0.018	3	0	1	0	1	0	1	NC	1	NC	1
249		5	max	-0.004	4	0	7	0	7	0	7	NC	7	NC	7
250			min	-0.024	3	0	1	0	1	0	1	NC	1	NC	1
251	M26	1	max	0.043	5	-0.009	4	0	4	0	4	NC	7	NC	7
252			min	0.01	1	-0.037	3	0	3	-0.002	3	NC	1	NC	1
253		2	max	0.043	5	-0.009	4	0.003	5	0	4	NC	7	NC	6
254			min	0.01	1	-0.034	3	0	1	-0.002	3	NC	1	6024.258	3
255		3	max	0.043	5	-0.008	4	0	5	0	4	NC	7	NC	7
256			min	0.01	1	-0.03	3	0	1	-0.002	3	NC	1	NC	1
257		4	max	0.043	5	-0.007	4	0	6	0	4	NC	7	NC	6
258			min	0.01	1	-0.025	3	-0.003	3	-0.002	3	NC	1	6288.542	3
259		5	max	0.043	5	-0.006	4	0	5	0	4	NC	7	NC	7
260			min	0.01	1	-0.02	3	0	1	-0.002	3	NC	1	NC	1
261	M27	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
262			min	0	1	0	1	0	1	0	1	NC	1	NC	1
263		2	max	-0.001	4	0	5	0	4	0	7	NC	7	NC	7
264			min	-0.006	3	0	1	0	3	0	1	NC	1	NC	1
265		3	max	-0.002	4	0.001	5	0	4	0	7	NC	7	NC	7
266			min	-0.012	3	0	1	0	3	0	1	NC	1	NC	1
267		4	max	-0.003	4	0	5	0	4	0	7	NC	7	NC	7
268			min	-0.018	3	0	1	0	3	0	1	NC	1	NC	1
269		5	max	-0.004	4	0	7	0	7	0	7	NC	7	NC	7
270			min	-0.024	3	0	1	0	1	0	1	NC	1	NC	1
271	M28	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
272			min	0	1	0	1	0	1	0	1	NC	1	NC	1
273		2	max	-0.001	4	0	5	0	4	0	7	NC	7	NC	7
274			min	-0.006	3	0	1	0	3	0	1	NC	1	NC	1
275		3	max	-0.002	4	0	5	0	4	0	7	NC	7	NC	7
276			min	-0.012	3	0	1	0	3	0	1	NC	1	NC	1
277		4	max	-0.003	4	0	5	0	4	0	7	NC	7	NC	7
278			min	-0.018	3	0	1	0	3	0	1	NC	1	NC	1
279		5	max	-0.004	4	0	7	0	7	0	7	NC	7	NC	7
280			min	-0.024	3	0	1	0	1	0	1	NC	1	NC	1
281	M29	1	max	0	4	0.002	5	-0.015	4	0	5	NC	7	NC	7
282			min	0	3	0	1	-0.064	3	0	1	NC	1	NC	1
283		2	max	0	4	0.001	5	-0.012	4	0	5	NC	7	NC	7
284			min	0	3	0	1	-0.053	3	0	1	NC	1	NC	1
285		3	max	0	4	0.001	5	-0.009	4	0	5	NC	7	NC	7

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
286			min	0	3	0	1	-0.041	3	0	1	NC	1	NC	1
287		4	max	0	6	0	5	-0.007	4	0	5	NC	7	NC	7
288			min	0	3	0	1	-0.03	3	0	1	NC	1	NC	1
289		5	max	0	7	0	7	-0.004	4	0	5	NC	7	NC	7
290			min	0	1	0	1	-0.018	3	0	1	NC	1	NC	1
291	M30	1	max	0.043	5	-0.006	4	0	5	0	4	NC	7	NC	7
292			min	0.01	1	-0.02	3	0	1	-0.002	3	NC	1	NC	1
293		2	max	0.043	5	-0.005	4	0.003	5	0	4	NC	7	NC	6
294			min	0.01	1	-0.015	3	0	1	-0.002	3	NC	1	6219.563	3
295		3	max	0.043	5	-0.003	4	0	5	0	4	NC	7	NC	7
296			min	0.01	1	-0.009	7	0	1	-0.002	3	NC	1	NC	1
297		4	max	0.043	5	-0.001	2	0	6	0	4	NC	7	NC	6
298			min	0.01	1	-0.003	7	-0.003	3	-0.002	3	NC	1	6219.837	3
299		5	max	0.043	5	0.003	2	0	7	0	4	NC	7	NC	7
300			min	0.01	1	0	6	0	1	-0.002	3	NC	1	NC	1
301	M31	1	max	0.043	5	-0.006	4	0	6	0.002	5	NC	7	NC	7
302			min	0.01	1	-0.02	3	0	3	0	1	NC	1	NC	1
303		2	max	0.043	5	-0.005	4	0	4	0.002	5	NC	7	NC	6
304			min	0.01	1	-0.015	3	-0.003	3	0	1	NC	1	6219.563	3
305		3	max	0.043	5	-0.003	4	0	4	0.002	5	NC	7	NC	7
306			min	0.01	1	-0.009	7	0	3	0	1	NC	1	NC	1
307		4	max	0.043	5	-0.001	2	0.003	5	0.002	5	NC	7	NC	6
308			min	0.01	1	-0.003	7	0	6	0	1	NC	1	6219.837	3
309		5	max	0.043	5	0.003	2	0	7	0.002	5	NC	7	NC	7
310			min	0.01	1	0	6	0	1	0	1	NC	1	NC	1
311	M32	1	max	0.043	5	0.003	2	0	7	0	4	NC	7	NC	7
312			min	0.01	1	0	6	0	1	-0.002	3	NC	1	NC	1
313		2	max	0.043	5	0.009	5	0.003	5	0	4	NC	4	NC	6
314			min	0.01	1	0.001	1	0	1	-0.002	3	2716.634	3	6219.777	3
315		3	max	0.043	5	0.014	5	0	7	0	4	5754.504	4	NC	7
316			min	0.01	1	0.003	1	0	1	-0.002	3	1422.895	3	NC	1
317		4	max	0.043	5	0.019	5	0	6	0	4	4099.805	4	NC	6
318			min	0.01	1	0.004	1	-0.003	3	-0.002	3	1016.234	3	6219.778	3
319		5	max	0.043	5	0.022	5	0	7	0	4	3383.082	4	NC	7
320			min	0.01	1	0.004	1	0	1	-0.002	3	839.32	3	NC	1
321	M33	1	max	0.043	5	0.003	2	0	7	0.002	5	NC	7	NC	7
322			min	0.01	1	0	6	0	1	0	1	NC	1	NC	1
323		2	max	0.043	5	0.009	5	0	4	0.002	5	NC	4	NC	6
324			min	0.01	1	0.001	1	-0.003	3	0	1	2716.634	3	6219.777	3
325		3	max	0.043	5	0.014	5	0	7	0.002	5	5754.504	4	NC	7
326			min	0.01	1	0.003	1	0	1	0	1	1422.895	3	NC	1
327		4	max	0.043	5	0.019	5	0.003	5	0.002	5	4099.805	4	NC	6
328			min	0.01	1	0.004	1	0	6	0	1	1016.234	3	6219.778	3
329		5	max	0.043	5	0.022	5	0	7	0.002	5	3383.082	4	NC	7
330			min	0.01	1	0.004	1	0	1	0	1	839.32	3	NC	1
331	M34	1	max	0.043	5	0.022	5	0	7	0	4	NC	7	NC	7
332			min	0.01	1	0.004	1	0	1	-0.002	3	NC	1	NC	1
333		2	max	0.043	5	0.023	5	0.003	5	0	4	NC	7	NC	6
334			min	0.01	1	0.005	1	0	1	-0.002	3	NC	1	6219.784	3
335		3	max	0.043	5	0.024	5	0	7	0	4	NC	6	NC	7
336			min	0.01	1	0.005	1	0	1	-0.002	3	9180.355	3	NC	1
337		4	max	0.043	5	0.023	5	0	6	0	4	NC	7	NC	6
338			min	0.01	1	0.005	1	-0.003	3	-0.002	3	NC	1	6219.758	3
339		5	max	0.043	5	0.022	5	0	7	0	4	NC	7	NC	7
340			min	0.01	1	0.004	1	0	1	-0.002	3	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
341	M35	1	max	0.043	5	0.022	5	0	7	0.002	5	NC	7	NC	7
342			min	0.01	1	0.004	1	0	1	0	1	NC	1	NC	1
343		2	max	0.043	5	0.023	5	0	4	0.002	5	NC	7	NC	6
344			min	0.01	1	0.005	1	-0.003	3	0	1	NC	1	6219.784	3
345		3	max	0.043	5	0.024	5	0	7	0.002	5	NC	6	NC	7
346			min	0.01	1	0.005	1	0	1	0	1	9180.355	3	NC	1
347		4	max	0.043	5	0.023	5	0.003	5	0.002	5	NC	7	NC	6
348			min	0.01	1	0.005	1	0	6	0	1	NC	1	6219.758	3
349		5	max	0.043	5	0.022	5	0	7	0.002	5	NC	7	NC	7
350			min	0.01	1	0.004	1	0	1	0	1	NC	1	NC	1
351	M36	1	max	0.043	5	0.022	5	0	7	0	4	NC	7	NC	7
352			min	0.01	1	0.004	1	0	1	-0.002	3	NC	1	NC	1
353		2	max	0.043	5	0.021	5	0.003	5	0	4	NC	7	NC	6
354			min	0.01	1	0.004	1	0	6	-0.002	3	NC	1	6220.971	3
355		3	max	0.043	5	0.02	5	0	4	0	4	NC	7	NC	7
356			min	0.01	1	0.004	1	0	3	-0.002	3	NC	1	NC	1
357		4	max	0.043	5	0.019	5	0	4	0	4	NC	7	NC	6
358			min	0.01	1	0.004	1	-0.003	3	-0.002	3	NC	1	6215.347	3
359		5	max	0.043	5	0.018	5	0	6	0	4	NC	7	NC	7
360			min	0.01	1	0.003	1	0	3	-0.002	3	NC	1	NC	1
361	M37	1	max	0.043	5	0.022	5	0	7	0.002	5	NC	7	NC	7
362			min	0.01	1	0.004	1	0	1	0	1	NC	1	NC	1
363		2	max	0.043	5	0.021	5	0	6	0.002	5	NC	7	NC	6
364			min	0.01	1	0.004	1	-0.003	3	0	1	NC	1	6220.971	3
365		3	max	0.043	5	0.02	5	0	5	0.002	5	NC	7	NC	7
366			min	0.01	1	0.004	1	0	1	0	1	NC	1	NC	1
367		4	max	0.043	5	0.019	5	0.003	5	0.002	5	NC	7	NC	6
368			min	0.01	1	0.004	1	0	1	0	1	NC	1	6215.347	3
369		5	max	0.043	5	0.018	5	0	5	0.002	5	NC	7	NC	7
370			min	0.01	1	0.003	1	0	6	0	1	NC	1	NC	1
371	M38	1	max	0.043	5	0.018	5	0	6	0	4	NC	7	NC	7
372			min	0.01	1	0.003	1	0	3	-0.002	3	NC	1	NC	1
373		2	max	0.043	5	0.018	5	0.002	5	0	4	NC	7	NC	7
374			min	0.01	1	0.004	1	0	1	-0.002	3	NC	1	8235.059	3
375		3	max	0.043	5	0.019	5	0	6	0	4	NC	7	NC	7
376			min	0.01	1	0.004	1	-0.002	3	-0.002	3	NC	1	9525.015	3
377		4	max	0.043	5	0.021	5	-0.001	6	0	4	NC	7	NC	6
378			min	0.01	1	0.004	1	-0.004	3	-0.003	3	NC	1	3585.359	3
379		5	max	0.043	5	0.023	5	0	5	0	4	NC	7	NC	7
380			min	0.01	1	0.005	1	0	1	-0.003	3	NC	1	NC	1
381	M39	1	max	0.043	5	0.018	5	0	5	0.002	5	NC	7	NC	7
382			min	0.01	1	0.003	1	0	6	0	1	NC	1	NC	1
383		2	max	0.043	5	0.018	5	0	4	0.002	5	NC	7	NC	7
384			min	0.01	1	0.004	1	-0.002	3	0	1	NC	1	8235.059	3
385		3	max	0.043	5	0.019	5	0.002	5	0.002	5	NC	7	NC	7
386			min	0.01	1	0.004	1	0	6	0	1	NC	1	9525.015	3
387		4	max	0.043	5	0.021	5	0.004	5	0.003	5	NC	7	NC	6
388			min	0.01	1	0.004	1	0.001	6	0	1	NC	1	3585.359	3
389		5	max	0.043	5	0.023	5	0	4	0.003	5	NC	7	NC	7
390			min	0.01	1	0.005	1	0	3	0	1	NC	1	NC	1
391	M40	1	max	0.043	5	0.023	5	0	5	0	4	NC	7	NC	7
392			min	0.01	1	0.005	1	0	1	-0.003	3	NC	1	NC	1
393		2	max	0.043	5	0.026	5	0.007	5	0	4	NC	6	NC	6
394			min	0.01	1	0.006	1	0.001	1	-0.003	3	5211.075	3	2383.361	3
395		3	max	0.043	5	0.03	5	0.008	5	0	4	9225.84	4	NC	6

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
396			min	0.01	1	0.007	1	0.001	1	-0.003	3	2390.945	3	2085.752	3
397		4	max	0.043	5	0.034	5	0.005	5	0	4	5784.879	4	NC	6
398			min	0.01	1	0.008	1	0.001	1	-0.003	3	1497.316	3	3337.343	3
399		5	max	0.043	5	0.038	5	0	7	0	4	4158.27	4	NC	7
400			min	0.01	1	0.009	1	0	1	-0.003	3	1076.126	3	NC	1
401	M41	1	max	0.043	5	0.023	5	0	4	0.003	5	NC	7	NC	7
402			min	0.01	1	0.005	1	0	3	0	1	NC	1	NC	1
403		2	max	0.043	5	0.026	5	-0.001	4	0.003	5	NC	6	NC	6
404			min	0.01	1	0.006	1	-0.007	3	0	1	5211.075	3	2383.361	3
405		3	max	0.043	5	0.03	5	-0.001	4	0.003	5	9225.84	4	NC	6
406			min	0.01	1	0.007	1	-0.008	3	0	1	2390.945	3	2085.752	3
407		4	max	0.043	5	0.034	5	-0.001	4	0.003	5	5784.879	4	NC	6
408			min	0.01	1	0.008	1	-0.005	3	0	1	1497.316	3	3337.343	3
409		5	max	0.043	5	0.038	5	0	7	0.003	5	4158.27	4	NC	7
410			min	0.01	1	0.009	1	0	1	0	1	1076.126	3	NC	1
411	M42	1	max	0	5	0.008	5	0.057	5	0	4	NC	7	NC	7
412			min	0	1	0.001	1	0.014	1	-0.001	3	NC	1	NC	1
413		2	max	0	5	0.008	5	0.085	5	0	4	NC	7	NC	6
414			min	0	1	0.001	1	0.018	1	-0.001	3	NC	1	1680.577	3
415		3	max	0	7	0.008	5	0.097	5	0	4	NC	7	7437.703	4
416			min	0	1	0.001	1	0.02	1	-0.001	3	NC	1	1196.558	3
417		4	max	0	4	0.008	5	0.085	5	0	4	NC	7	NC	6
418			min	0	3	0.001	1	0.018	1	-0.001	3	NC	1	1680.577	3
419		5	max	0	4	0.008	5	0.057	5	0	4	NC	7	NC	7
420			min	0	3	0.001	1	0.014	1	-0.001	3	NC	1	NC	1
421	M43	1	max	0	6	0.019	5	0.044	5	0	4	NC	7	NC	7
422			min	0	3	0.004	1	0.011	1	-0.001	3	NC	1	NC	1
423		2	max	0	7	0.019	5	0.072	5	0	4	NC	7	NC	6
424			min	0	1	0.004	1	0.015	1	-0.001	3	NC	1	1711.04	3
425		3	max	0	7	0.019	5	0.083	5	0	4	NC	7	7621.52	4
426			min	0	1	0.004	1	0.017	1	-0.001	3	NC	1	1217.129	3
427		4	max	0	7	0.019	5	0.072	5	0	4	NC	7	NC	6
428			min	0	1	0.004	1	0.015	1	-0.001	3	NC	1	1711.04	3
429		5	max	0	5	0.019	5	0.044	5	0	4	NC	7	NC	7
430			min	0	1	0.004	1	0.011	1	-0.001	3	NC	1	NC	1
431	M44	1	max	0	7	0.035	5	0.026	5	0	4	NC	7	NC	7
432			min	0	1	0.007	1	0.007	1	-0.001	3	NC	1	NC	1
433		2	max	0	7	0.034	5	0.054	5	0	4	NC	7	NC	6
434			min	0	1	0.007	1	0.011	1	-0.001	3	NC	1	1711.082	3
435		3	max	0	7	0.034	5	0.065	5	0	4	NC	7	7621.784	4
436			min	0	1	0.007	1	0.013	1	-0.001	3	NC	1	1217.158	3
437		4	max	0	7	0.034	5	0.054	5	0	4	NC	7	NC	6
438			min	0	1	0.007	1	0.011	1	-0.001	3	NC	1	1711.082	3
439		5	max	0	7	0.035	5	0.026	5	0	4	NC	7	NC	7
440			min	0	1	0.007	1	0.007	1	-0.001	3	NC	1	NC	1
441	M45	1	max	0	7	0.047	5	0.011	5	0	4	NC	7	NC	7
442			min	0	1	0.01	1	0.003	1	-0.001	3	NC	1	NC	1
443		2	max	0	7	0.047	5	0.04	5	0	4	NC	7	NC	6
444			min	0	1	0.01	1	0.008	1	-0.001	3	NC	1	1711.082	3
445		3	max	0	7	0.047	5	0.051	5	0	4	NC	7	7621.785	4
446			min	0	1	0.01	1	0.009	1	-0.001	3	NC	1	1217.158	3
447		4	max	0	7	0.047	5	0.04	5	0	4	NC	7	NC	6
448			min	0	1	0.01	1	0.008	1	-0.001	3	NC	1	1711.082	3
449		5	max	0	7	0.047	5	0.011	5	0	4	NC	7	NC	7
450			min	0	1	0.01	1	0.003	1	-0.001	3	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
451	M46	1	max	0	7	0.047	5	0.012	5	0	5	NC	7	NC	7
452			min	0	1	0.01	1	0.003	1	0	1	NC	1	NC	1
453		2	max	0	7	0.047	5	0.04	5	0	5	NC	7	NC	6
454			min	0	1	0.01	1	0.008	1	0	1	NC	1	1711.079	3
455		3	max	0	7	0.047	5	0.051	5	0	5	NC	7	7621.776	4
456			min	0	1	0.01	1	0.01	1	0	1	NC	1	1217.156	3
457		4	max	0	7	0.047	5	0.04	5	0	5	NC	7	NC	6
458			min	0	1	0.01	1	0.008	1	0	1	NC	1	1711.079	3
459		5	max	0	7	0.047	5	0.012	5	0	5	NC	7	NC	7
460			min	0	1	0.01	1	0.003	1	0	1	NC	1	NC	1
461	M47	1	max	0	5	0.045	5	0.015	5	0	2	NC	7	NC	7
462			min	0	6	0.01	1	0.004	1	0	6	NC	1	NC	1
463		2	max	0	5	0.045	5	0.043	5	0	2	NC	7	NC	6
464			min	0	6	0.01	1	0.008	1	0	6	NC	1	1710.194	3
465		3	max	0	7	0.045	5	0.054	5	0	2	NC	7	7619.013	4
466			min	0	1	0.01	1	0.01	1	0	6	NC	1	1216.559	3
467		4	max	0	6	0.045	5	0.043	5	0	2	NC	7	NC	6
468			min	0	3	0.01	1	0.008	1	0	6	NC	1	1710.194	3
469		5	max	0	6	0.045	5	0.015	5	0	2	NC	7	NC	7
470			min	0	3	0.01	1	0.004	1	0	6	NC	1	NC	1
471	M48	1	max	0	4	0.048	5	0.011	5	0	4	NC	7	NC	7
472			min	0	3	0.011	1	0.003	1	-0.001	3	NC	1	NC	1
473		2	max	0	4	0.048	5	0.053	5	0	4	NC	7	7879.01	4
474			min	0	3	0.011	1	0.009	1	-0.001	3	NC	1	1150.573	3
475		3	max	0	7	0.048	5	0.07	5	0	4	NC	7	5606.831	4
476			min	0	1	0.011	1	0.011	1	-0.001	3	NC	1	818.763	3
477		4	max	0	5	0.048	5	0.053	5	0	4	NC	7	7879.01	4
478			min	0	1	0.011	1	0.009	1	-0.001	3	NC	1	1150.573	3
479		5	max	0	5	0.048	5	0.011	5	0	4	NC	7	NC	7
480			min	0	1	0.011	1	0.003	1	-0.001	3	NC	1	NC	1
481	M49	1	max	0	7	0	7	0	7	0	4	NC	7	NC	7
482			min	0	1	0	1	0	1	0	3	NC	1	NC	1
483		2	max	-0.001	4	-0.003	4	0	7	0	4	NC	7	NC	7
484			min	-0.003	3	-0.012	3	0	1	0	3	NC	1	NC	1
485		3	max	-0.002	4	-0.005	4	0	7	0	4	NC	7	NC	7
486			min	-0.006	3	-0.023	3	0	1	0	3	NC	1	NC	1
487		4	max	-0.002	4	-0.008	4	0	7	0	4	NC	7	NC	7
488			min	-0.009	3	-0.035	3	0	1	0	3	NC	1	NC	1
489		5	max	-0.003	4	-0.01	4	0	7	0	4	NC	7	NC	7
490			min	-0.011	3	-0.047	3	0	1	0	3	NC	1	NC	1
491	M50	1	max	0	7	0	7	0	7	0	5	NC	7	NC	7
492			min	0	1	0	1	0	1	0	1	NC	1	NC	1
493		2	max	-0.001	4	-0.003	4	0	7	0	5	NC	7	NC	7
494			min	-0.003	3	-0.012	3	0	1	0	1	NC	1	NC	1
495		3	max	-0.002	4	-0.005	4	0	7	0	5	NC	7	NC	7
496			min	-0.006	3	-0.023	3	0	1	0	1	NC	1	NC	1
497		4	max	-0.002	4	-0.008	4	0	7	0	5	NC	7	NC	7
498			min	-0.009	3	-0.035	3	0	1	0	1	NC	1	NC	1
499		5	max	-0.003	4	-0.01	4	0	7	0	5	NC	7	NC	7
500			min	-0.011	3	-0.047	3	0	1	0	1	NC	1	NC	1

Envelope AISI S100-16: ASD Member Cold Formed Steel Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pn/Om[lb]	Tn/Om[lb]	Mnyy/Om[lb-ft]	Mnzz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
1	M42	1200S200-97	0.268	2	5	0.042	4	z	5	18629.826	50299.401	884.053	6836.113	8145.361	5687.827	1	H1.2-1
2	M43	1200S200-97	0.263	2	5	0.042	4	z	5	17069.542	50299.401	884.053	6836.179	8145.361	5687.827	1	H1.1-2

Envelope AISI S100-16: ASD Member Cold Formed Steel Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pn/Om[lb]	Tn/Om[lb]	Mnyy/Om[lb-ft]	Mnzz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
3	M44	1200S200-97	0.263	2	5	0.042	4	z	5	17069.542	50299.401	884.053	6836.149	8145.361	5687.827	1	H1.1-2
4	M45	1200S200-97	0.263	2	5	0.042	4	z	5	18629.826	50299.401	884.053	6836.149	8145.361	5687.827	1	H1.2-1
5	M46	1200S200-97	0.263	2	5	0.042	4	z	5	18629.826	50299.401	884.053	6836.149	8145.361	5687.827	1	H1.2-1
6	M47	1200S200-97	0.264	2	5	0.042	4	z	5	18629.826	50299.401	884.053	6836.837	8145.361	5687.827	1	H1.2-1
7	M48	1200S200-97	0.391	2	5	0.062	4	z	5	17069.542	50299.401	884.053	6834.593	8145.361	5687.827	1	H1.1-2

Envelope AA ADM1-20: ASD - BUILDING Member Aluminum Code Checks

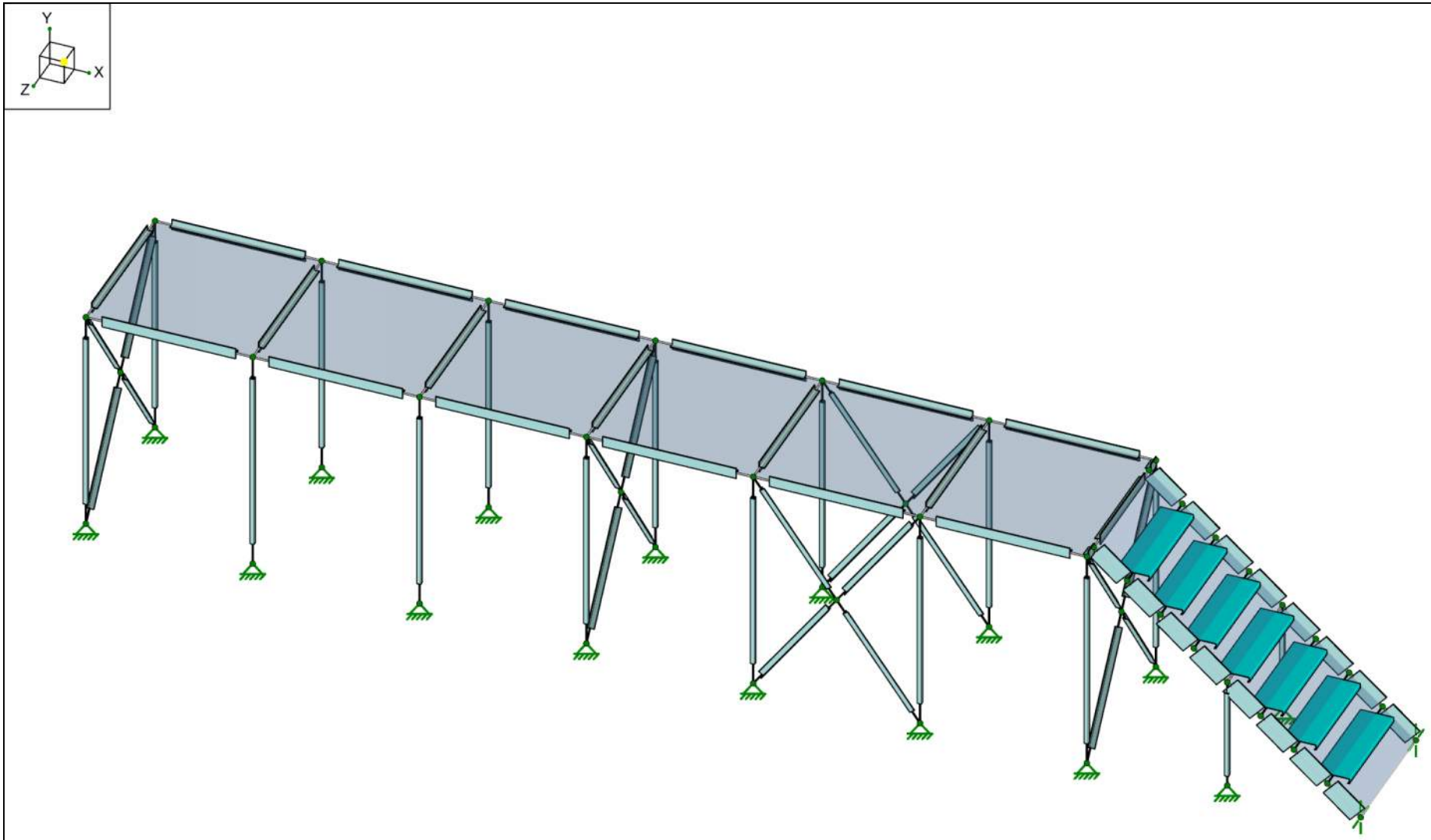
	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/Om[lb]	Pnt/Om[lb]	Mny/Om[lb-ft]	Mnz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
1	M1	0.25X8STRINGER	0.158	1.329	5	0.018	0	y	7	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
2	M2	RT1.5X1.5X.120	0.996	0	5	0	7	y	5	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
3	M3	RT1.5X1.5X.120	0.745	0	5	0	7	y	5	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
4	M4	0.25X8STRINGER	0.158	1.329	5	0.018	0	y	7	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
5	M5	RT1.5X1.5X.120	0.996	0	5	0	7	y	5	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
6	M6	RT1.5X1.5X.120	0.745	0	5	0	7	y	5	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
7	M7	EDGEBEAM	0.003	2.5	7	0	5	z	7	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
8	M8	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
9	M9	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
10	M10	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
11	M11	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
12	M12	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
13	M13	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
14	M14	EDGEBEAM	0.003	2.5	7	0	5	z	7	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
15	M15	EDGEBEAM	0.003	2.5	7	0	5	z	7	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
16	M16	EDGEBEAM	0.115	0.5	5	0.031	0	z	5	24913.342	28012.821	1664.434	679.986	6153.846	12307.692	1	H.1-1
17	M17	RT1.5X1.5X.120	0.542	0	5	0	7	y	5	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
18	M18	RT1.5X1.5X.120	0.542	0	5	0	7	y	5	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
19	M19	EDGEBEAM	0.05	2.5	7	0.005	5	z	7	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
20	M20	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
21	M21	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
22	M22	EDGEBEAM	0.184	2	5	0.009	4	z	5	9387.979	28012.821	1664.434	540.837	6153.846	12307.692	1	H.1-1
23	M23	0.25X8STRINGER	0.169	0	5	0.002	1.329	y	7	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
24	M24	RT1.5X1.5X.120	0.994	0	5	0	7	y	5	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
25	M25	RT1.5X1.5X.120	0.994	0	5	0	7	y	5	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
26	M26	0.25X8STRINGER	0.169	0	5	0.002	1.329	y	7	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
27	M27	RT1.5X1.5X.120	0.994	0	5	0	7	y	5	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
28	M28	RT1.5X1.5X.120	0.994	0	5	0	7	y	5	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
29	M29	EDGEBEAM	0.115	0	5	0.031	0.5	z	5	24913.342	28012.821	1664.434	679.986	6153.846	12307.692	1	H.1-1
30	M30	0.25X8STRINGER	0.199	0	5	0.01	1.329	y	7	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
31	M31	0.25X8STRINGER	0.199	0	5	0.01	1.329	y	7	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
32	M32	0.25X8STRINGER	0.54	1.329	5	0.018	1.329	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
33	M33	0.25X8STRINGER	0.54	1.329	5	0.018	1.329	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
34	M34	0.25X8STRINGER	0.445	0	5	0.019	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
35	M35	0.25X8STRINGER	0.445	0	5	0.019	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
36	M36	0.25X8STRINGER	0.183	1.329	5	0.011	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
37	M37	0.25X8STRINGER	0.183	1.329	5	0.011	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
38	M38	0.25X8STRINGER	0.227	1.329	5	0.006	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
39	M39	0.25X8STRINGER	0.227	1.329	5	0.006	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
40	M40	0.25X8STRINGER	0.269	0	5	0.011	1.329	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
41	M41	0.25X8STRINGER	0.269	0	5	0.011	1.329	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
42	M49	RT1.5X1.5X.120	0.238	0	5	0	3.5	z	7	6166.763	12908.308	499.277	499.277	3367.385	3367.385	1	H.3-2
43	M50	RT1.5X1.5X.120	0.238	0	5	0	3.5	z	7	6166.763	12908.308	499.277	499.277	3367.385	3367.385	1	H.3-2

Aluminum Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Ramp Header	RT1.5X1.5X.120	Beam	None	6061-T6	Typical	0.662	0.212	0.212	0.315
2	Ramp Stringer	L4X2X1/4	Beam	None	6061-T6	Typical	1.438	0.421	2.406	0.028
3	Ramp End Member	EDGEBEAM	Beam	None	6061-T6	Typical	1.438	1.336	0.421	0.03
4	Stair Stringer	0.25X8STRINGER	Beam	None	6061-T6	Typical	2	0.01	10.667	0.041
5	RAILING	RT1.5X1.5X0.125	Beam	None	6063-T5	Typical	0.688	0.218	0.218	0.325
6	Post	RT1.5X1.5X.120	Column	Rectangular Tubes	6061-T6	Typical	0.662	0.212	0.212	0.315
7	Landing Edge Bm	EDGEBEAM	Beam	None	6061-T6	Typical	1.438	1.336	0.421	0.03
8	L Brace	L1.5X1.5X0.25	VBrace	None	6061-T6	Typical	0.688	0.135	0.135	0.013

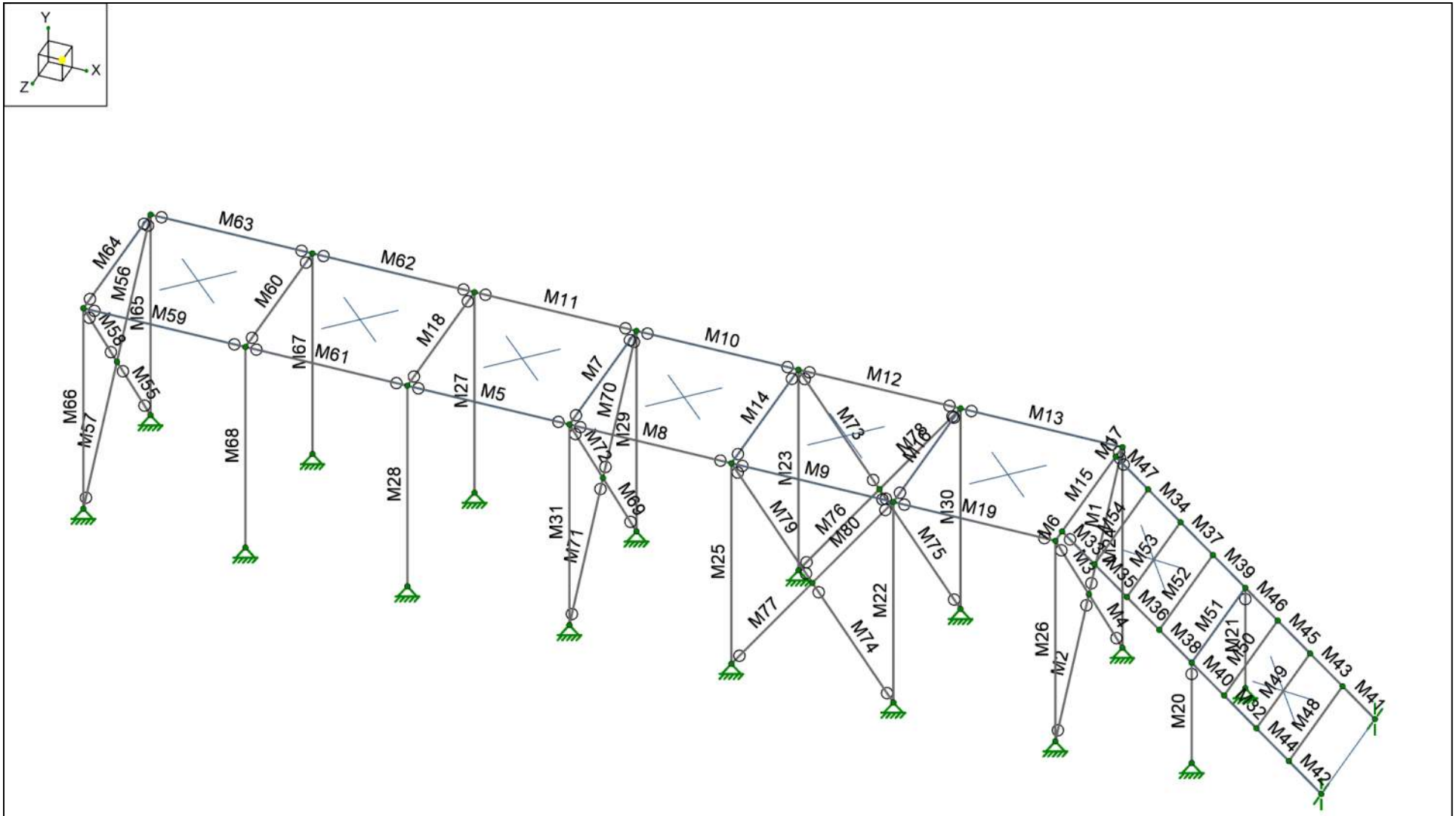
ACCESS PLATFORM AND STAIR STRUCTURAL CALCULATIONS

SINGLE WIDTH PLATFORM LATERAL ANALYSIS



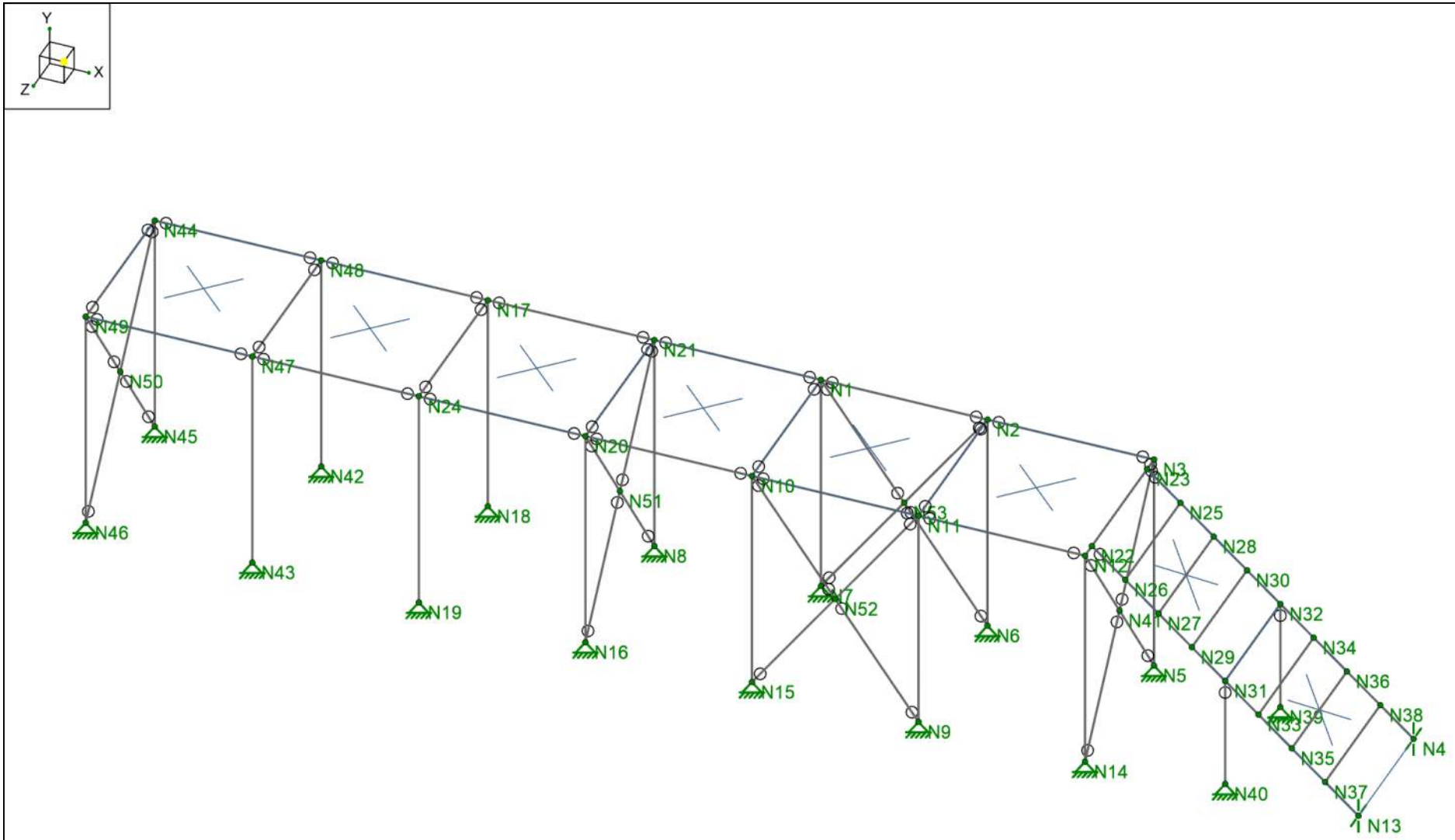
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Single Wide	SK-1
	AMP		Dec 27, 2024 at 10:41 AM
	2241015.20		Access Platform with Stair - Single.r3d



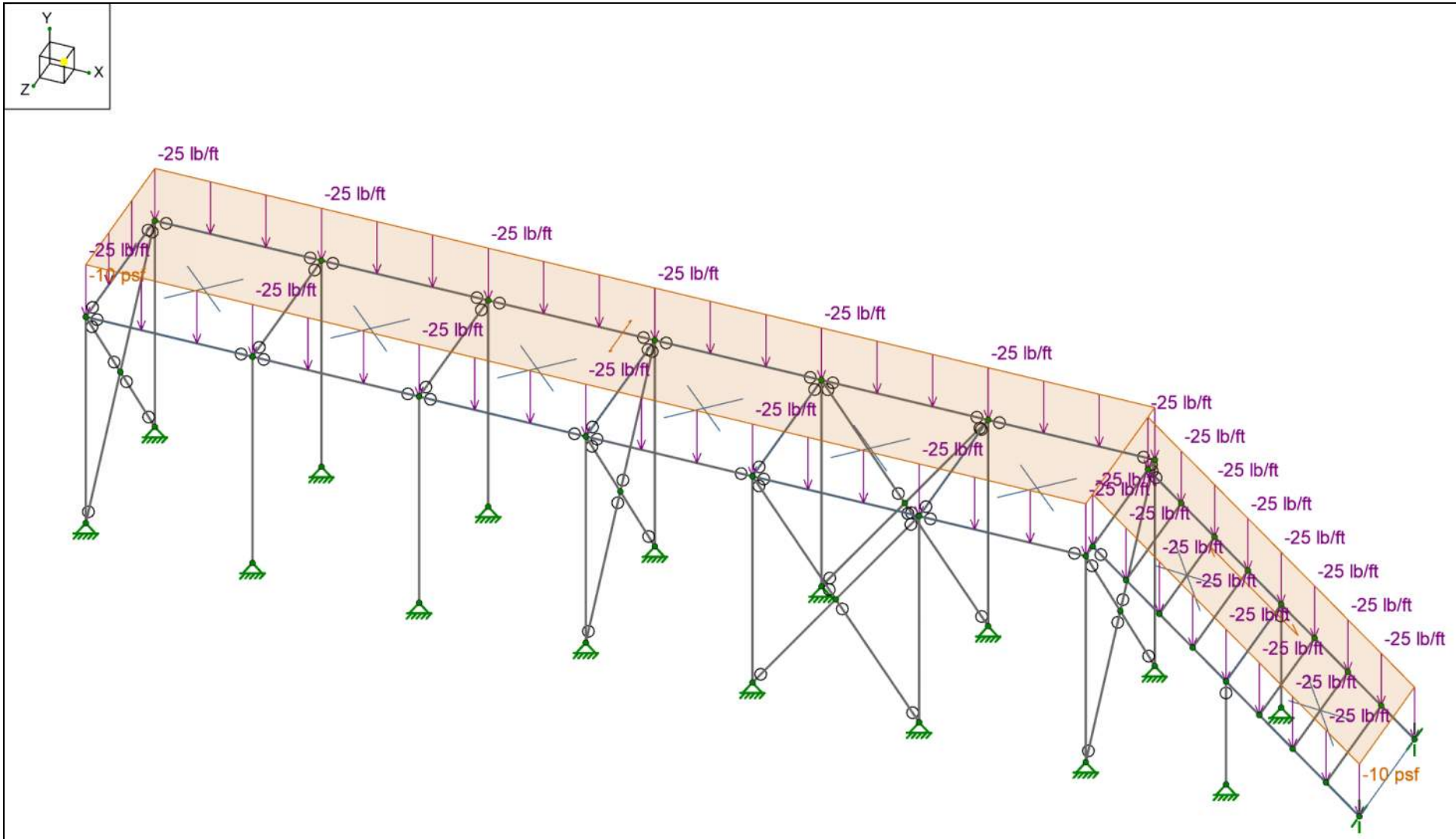
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Single Wide	SK-2
	AMP		Dec 27, 2024 at 10:41 AM
	2241015.20		Access Platform with Stair - Single.r3d



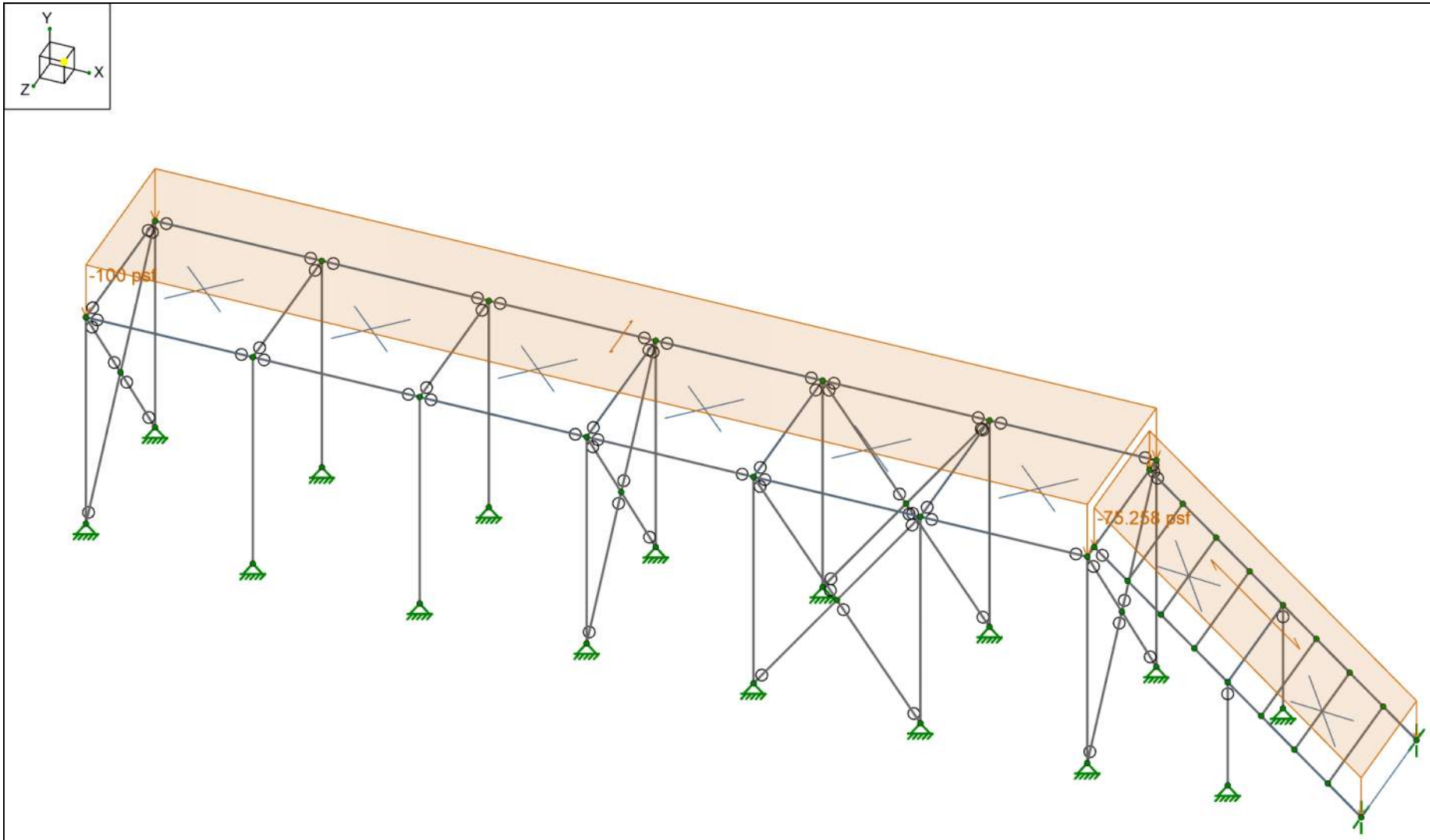
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Single Wide	SK-3
	AMP		Dec 27, 2024 at 10:41 AM
	2241015.20		Access Platform with Stair - Single.r3d



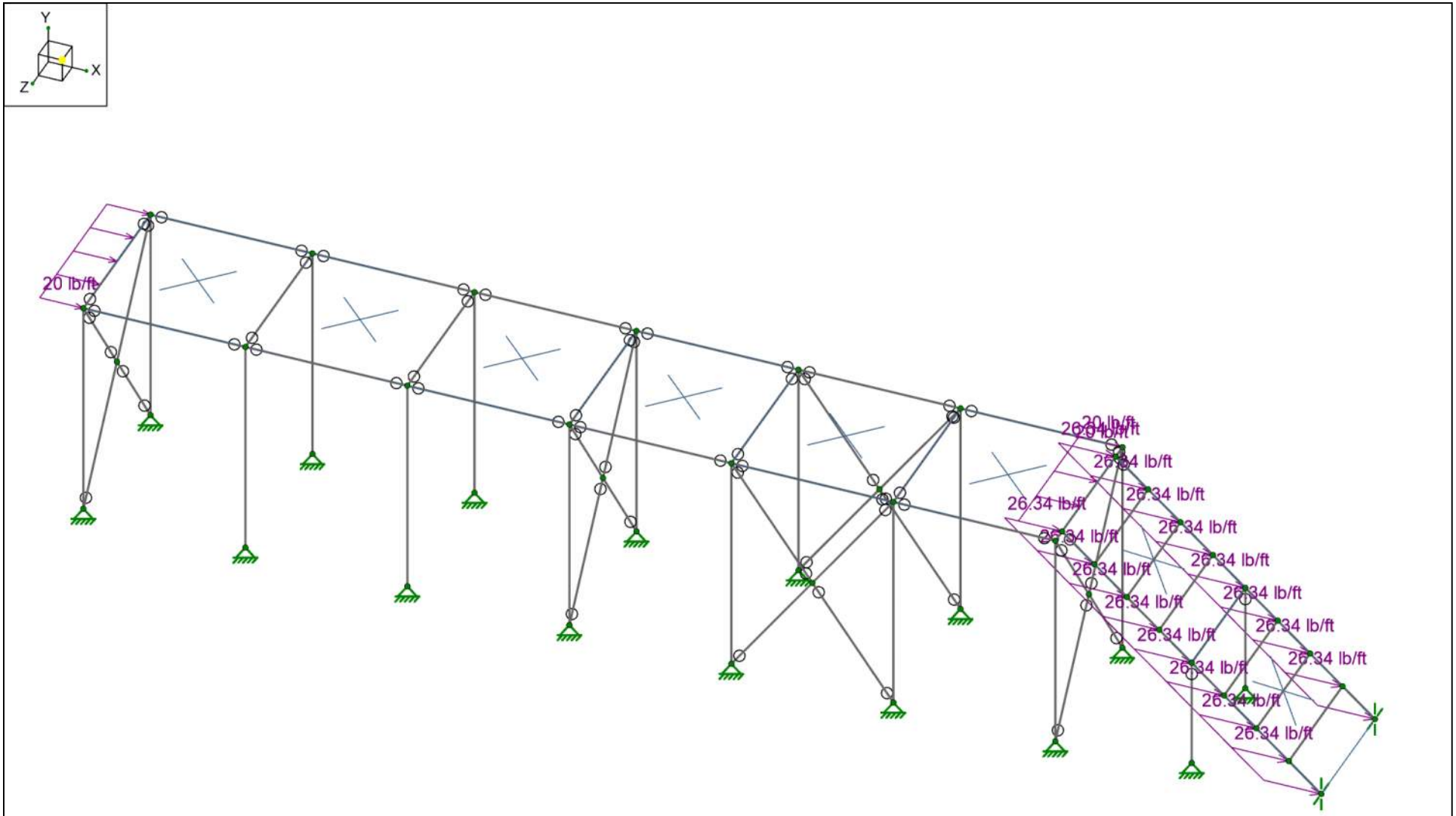
Loads: BLC 1, Dead
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Single Wide	SK-4
	AMP		Dec 27, 2024 at 10:41 AM
	2241015.20		Access Platform with Stair - Single.r3d



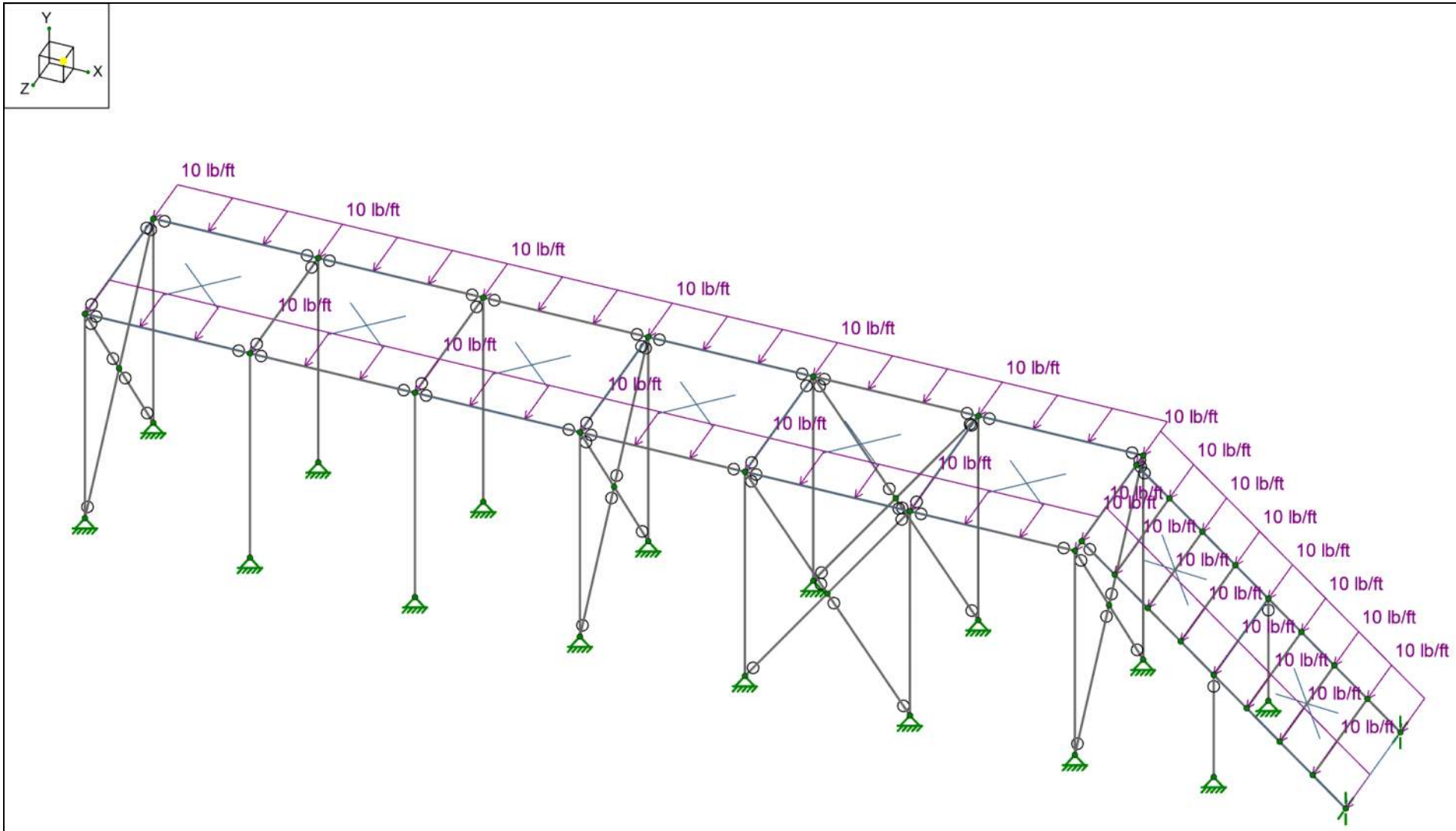
Loads: BLC 2, Live
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Single Wide	SK-5
	AMP		Dec 27, 2024 at 10:41 AM
	2241015.20		Access Platform with Stair - Single.r3d



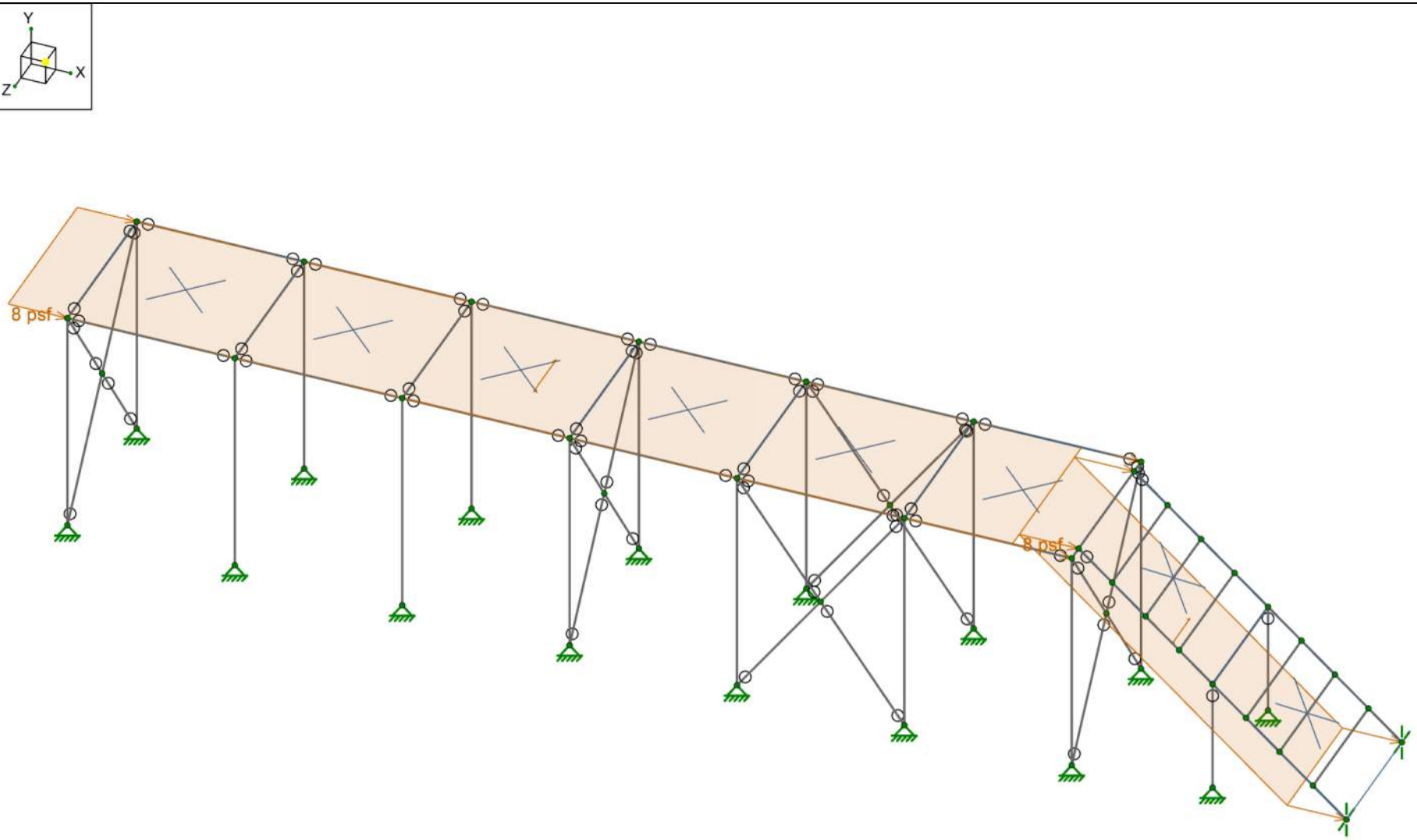
Loads: BLC 3, Wind X
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Single Wide	SK-6
	AMP		Dec 27, 2024 at 10:42 AM
	2241015.20		Access Platform with Stair - Single.r3d



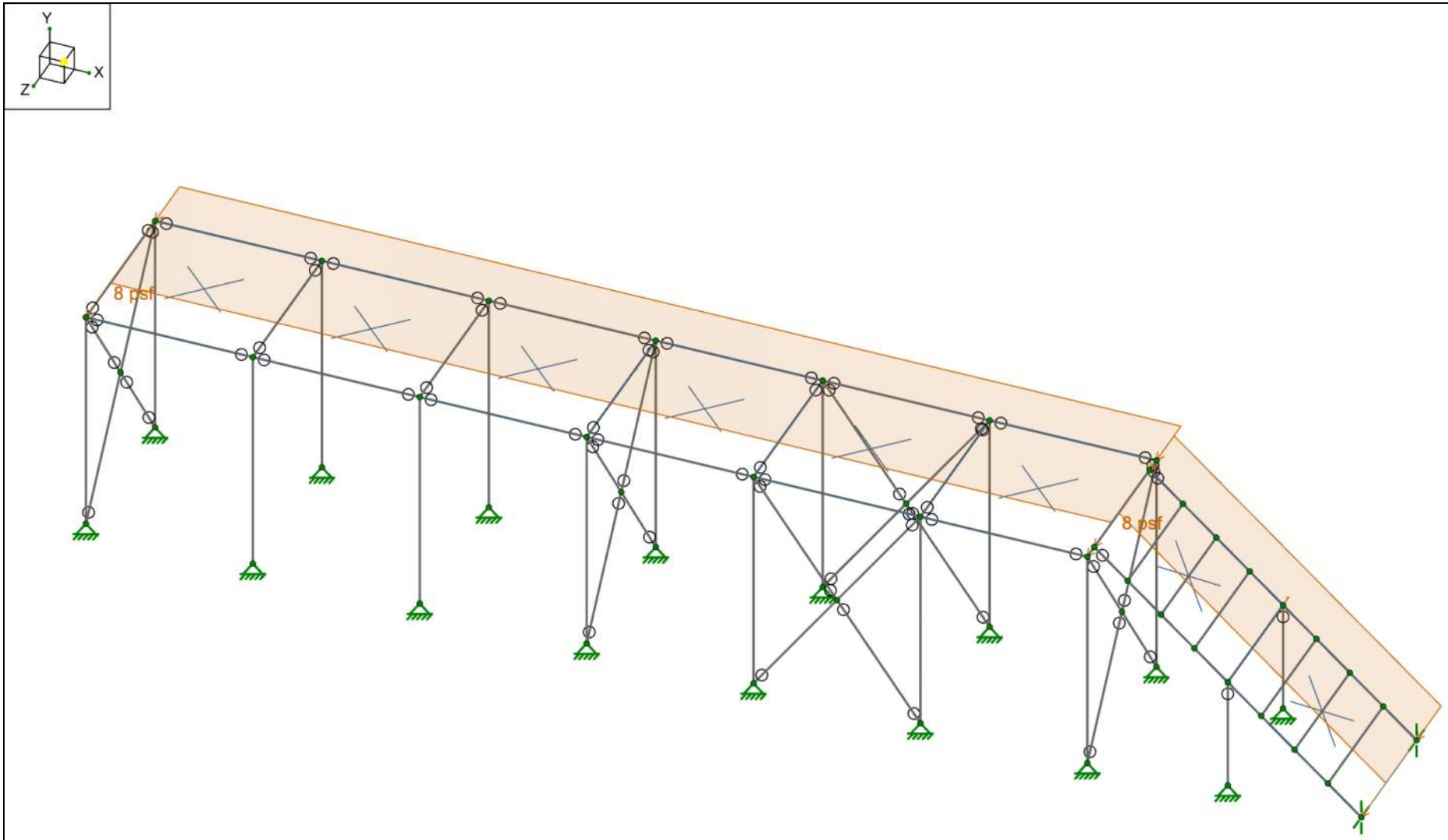
Loads: BLC 4, Wind Z
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Single Wide	SK-7
	AMP		Dec 27, 2024 at 10:42 AM
	2241015.20		Access Platform with Stair - Single.r3d



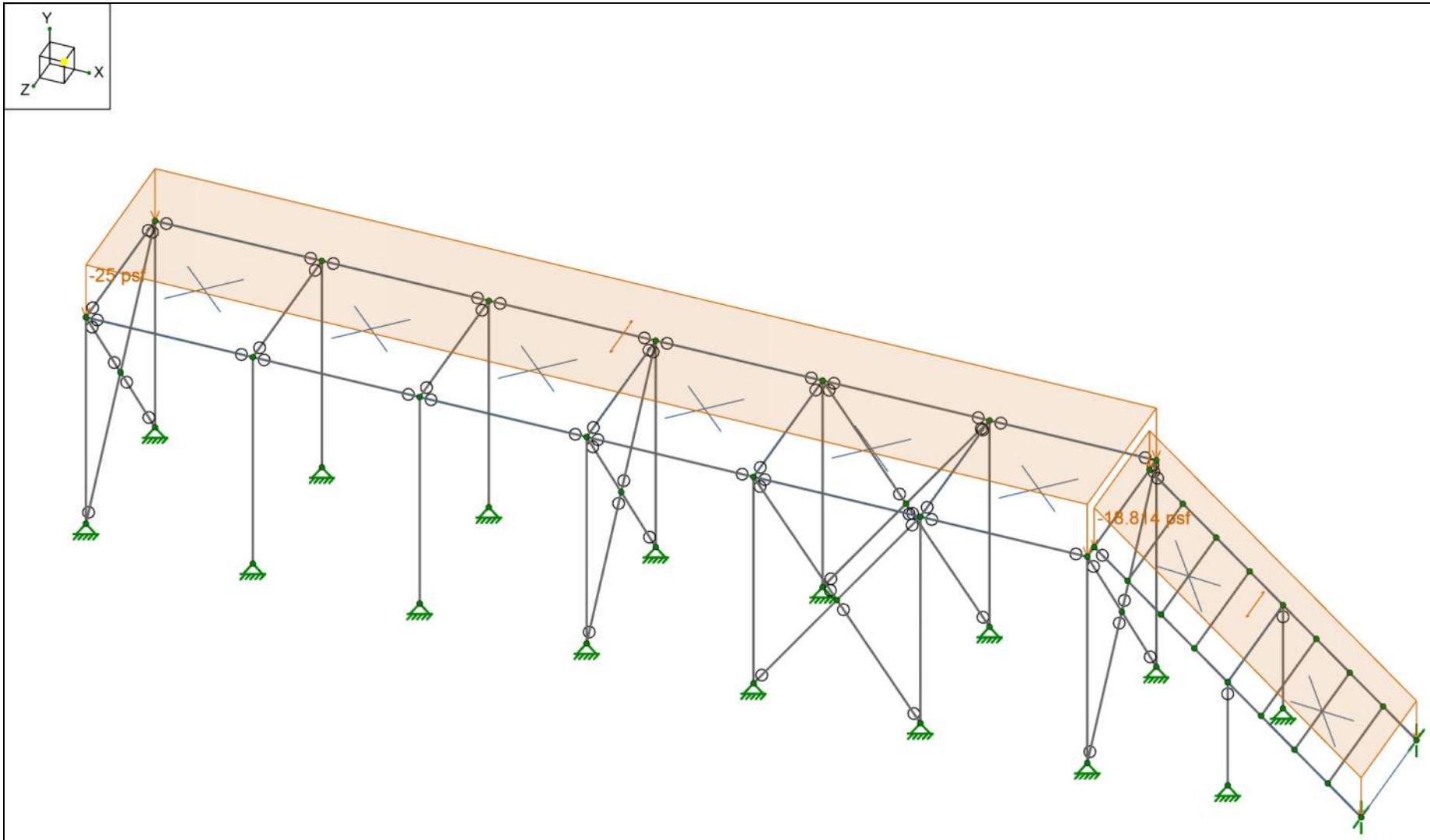
Loads: BLC 5, Seismic X
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Single Wide	SK-8
	AMP		Dec 27, 2024 at 10:42 AM
	2241015.20		Access Platform with Stair - Single.r3d



Loads: BLC 6, Seismic Z
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Single Wide	SK-9
	AMP		Dec 27, 2024 at 10:42 AM
	2241015.20		Access Platform with Stair - Single.r3d



Loads: BLC 7, Snow
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Single Wide	SK-10
	AMP		Dec 27, 2024 at 10:42 AM
	2241015.20		Access Platform with Stair - Single.r3d

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	N1	10	7	0	
2	N2	15	7	0	
3	N3	20	7	0	
4	N4	28	0	0.5	
5	N5	20	0	0	
6	N6	15	0	0	
7	N7	10	0	0	
8	N8	5	0	0	
9	N9	15	0	5	
10	N10	10	7	5	
11	N11	15	7	5	
12	N12	20	7	5	
13	N13	28	0	4.5	
14	N14	20	0	5	
15	N15	10	0	5	
16	N16	5	0	5	
17	N17	0	7	0	
18	N18	0	0	0	
19	N19	0	0	5	
20	N20	5	7	5	
21	N21	5	7	0	
22	N22	20	7	4.5	
23	N23	20	7	0.5	
24	N24	0	7	5	
25	N25	21	6.125	0.5	
26	N26	21	6.125	4.5	
27	N27	22	5.25	4.5	
28	N28	22	5.25	0.5	
29	N29	23	4.375	4.5	
30	N30	23	4.375	0.5	
31	N31	24	3.5	4.5	
32	N32	24	3.5	0.5	
33	N33	25	2.625	4.5	
34	N34	25	2.625	0.5	
35	N35	26	1.75	4.5	
36	N36	26	1.75	0.5	
37	N37	27	0.875	4.5	
38	N38	27	0.875	0.5	
39	N39	24	0	0.5	
40	N40	24	0	4.5	
41	N41	20	3.5	2.5	
42	N42	-5	0	0	
43	N43	-5	0	5	
44	N44	-10	7	0	
45	N45	-10	0	0	
46	N46	-10	0	5	
47	N47	-5	7	5	
48	N48	-5	7	0	
49	N49	-10	7	5	
50	N50	-10	3.5	2.5	
51	N51	5	3.5	2.5	
52	N52	12.5	3.5	5	
53	N53	12.5	3.5	0	

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
1	N4		Reaction	Reaction
2	N5	Reaction	Reaction	Reaction
3	N6	Reaction	Reaction	Reaction
4	N7	Reaction	Reaction	Reaction
5	N8	Reaction	Reaction	Reaction
6	N9	Reaction	Reaction	Reaction
7	N13		Reaction	Reaction
8	N14	Reaction	Reaction	Reaction
9	N15	Reaction	Reaction	Reaction
10	N16	Reaction	Reaction	Reaction
11	N18	Reaction	Reaction	Reaction
12	N19	Reaction	Reaction	Reaction
13	N39	Reaction	Reaction	Reaction
14	N40	Reaction	Reaction	Reaction
15	N42	Reaction	Reaction	Reaction
16	N43	Reaction	Reaction	Reaction
17	N45	Reaction	Reaction	Reaction
18	N46	Reaction	Reaction	Reaction

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	0.3	0.65	0.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	0.3	0.65	0.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
9	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1

Cold Formed Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Fu [ksi]
1	A653 SS Gr33	29500	11346	0.3	0.65	0.49	33	45
2	A653 SS Gr50/1	29500	11346	0.3	0.65	0.49	50	65

Wood Properties

	Label	Type	Database	Species	Grade	Cm	Ci	Emod	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]
1	DF	Solid Sawn	Visually Graded	Douglas Fir-Larch	No.1			1	0.3	0.3	0.035
2	SP	Solid Sawn	Visually Graded	Southern Pine	No.1			1	0.3	0.3	0.035
3	HF	Solid Sawn	Visually Graded	Hem-Fir	No.1			1	0.3	0.3	0.035
4	SPF	Solid Sawn	Visually Graded	Spruce-Pine-fir	No.1			1	0.3	0.3	0.035
5	24F-1.8E DF Balanced	Glulam	NDS Table 5A	24F-1.8E_DF_BAL	na			1	0.3	0.3	0.035
6	24F-1.8E DF Unbalanced	Glulam	NDS Table 5A	24F-1.8E_DF_UNBAL	na			1	0.3	0.3	0.035
7	24F-1.8E SP Balanced	Glulam	NDS Table 5A	24F-1.8E_SP_BAL	na			1	0.3	0.3	0.035
8	24F-1.8E SP Unbalanced	Glulam	NDS Table 5A	24F-1.8E_SP_UNBAL	na			1	0.3	0.3	0.035
9	1.3E-1600F_VERSALAM	SCL	Boise Cascade	1.3E-1600F_VERSALAM	na			1	0.3	0.3	0.035
10	1.35E LSL_SolidStart	SCL	Louisiana Pacific	1.35E LSL_SolidStart	na			1	0.3	0.3	0.035
11	1.3E_RIGIDLAM LVL	SCL	Roseburg Forest Products_2012	1.3E_RIGIDLAM LVL	na			1	0.3	0.3	0.035
12	2.0E_DF Parallam PSL	SCL	TrusJoist	2.0E_DF Parallam PSL	na			1	0.3	0.3	0.035

Wood Properties (Continued)

	Label	Type	Database	Species	Grade	Cm	Ci	Emod	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]
13	LVL_PRL_1.5E_2250F	Custom	N/A	LVL_PRL_1.5E_2250F	na			1	0.3	0.3	0.035
14	LVL_Microlam_1.9E_2600F	Custom	N/A	LVL_Microllam_1.9E_2600F	na			1	0.3	0.3	0.035
15	PSL_Parallam_2.0E_2900F	Custom	N/A	PSL_Parallam_2.0E_2900F	na			1	0.3	0.3	0.035
16	LSL_TimberStrand_1.55E_2325F	Custom	N/A	LSL_TimberStrand_1.55E_2325F	na			1	0.3	0.3	0.035

Concrete Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	f'c [ksi]	Lambda	Flex Steel [ksi]	Shear Steel [ksi]
1	Conc3000NW	3156	1372	0.15	0.6	0.145	3	1	60	60
2	Conc3500NW	3409	1482	0.15	0.6	0.145	3.5	1	60	60
3	Conc4000NW	3644	1584	0.15	0.6	0.145	4	1	60	60
4	Conc3000LW	2085	907	0.15	0.6	0.11	3	0.75	60	60
5	Conc3500LW	2252	979	0.15	0.6	0.11	3.5	0.75	60	60
6	Conc4000LW	2408	1047	0.15	0.6	0.11	4	0.75	60	60

Masonry Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Self Weight [k/ft³]	f'm [ksi]	Flex Steel [ksi]	Shear Steel [ksi]
1	Concrete Matl	1350	540	0.25	0.6	Custom	1.5	60	60
2	Clay Matl	1050	420	0.25	0.6	Custom	1.5	60	60
3	Gen Masonry	1050	420	0.25	0.6	0.08	1.5	60	60

Aluminum Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Table B.4	kt	Ftu [ksi]	Fty [ksi]	Fcy [ksi]	Fsu [ksi]	Ct
1	3003-H14	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	19	16	13	12	141
2	6061-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	38	35	35	24	141
3	6063-T5	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	22	16	16	13	141
4	6063-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	30	25	25	19	141
5	5052-H34	10200	3787.5	0.33	1.3	0.173	Table B.4-1	1	34	26	24	20	141
6	6061-T6 W	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	24	15	15	15	141

Stainless Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	n	Yield [ksi]	Fu [ksi]
1	A276 S316	28000	10780	0.3	0.93	0.5	5.6	30	75
2	A276 S321	29000	11165	0.3	0.73	0.48	5.6	65	94
3	A276 S304	28000	10780	0.3	0.93	0.49	5.6	30	75

General Materials Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Plate Methodology
1	gen_Conc3NW	3155	1372	0.15	0.6	0.145	Isotropic
2	gen_Conc4NW	3644	1584	0.15	0.6	0.145	Isotropic
3	gen_Conc3LW	2085	906	0.15	0.6	0.11	Isotropic
4	gen_Conc4LW	2408	1047	0.15	0.6	0.11	Isotropic
5	gen_Alum	10100	4077	0.3	1.29	0.173	Isotropic
6	gen_Steel	29000	11154	0.3	0.65	0.49	Isotropic
7	gen_Plywood	1800	38	0	0.3	0.035	Isotropic
8	RIGID	1e+6		0.3	0	0	Isotropic
9	gen_Ortho				0.65	0.49	Orthotropic

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Stair Tread	1200S200-97	Beam	CS	A653 SS Gr50/1	Typical	1.68	0.635	30.4	0.006

Aluminum Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Ramp Header	RT1.5X1.5X.120	Beam	None	6061-T6	Typical	0.662	0.212	0.212	0.315
2	Ramp Stringer	L4X2X1/4	Beam	None	6061-T6	Typical	1.438	0.421	2.406	0.028
3	Ramp End Member	EDGEBEAM	Beam	None	6061-T6	Typical	1.438	1.336	0.421	0.03
4	Stair Stringer	0.25X8STRINGER	Beam	None	6061-T6	Typical	2	0.01	10.667	0.041
5	RAILING	RT1.5X1.5X0.125	Beam	None	6063-T5	Typical	0.688	0.218	0.218	0.325
6	Post	RT1.5X1.5X.120	Column	Rectangular Tubes	6061-T6	Typical	0.662	0.212	0.212	0.315
7	Landing Edge Bm	EDGEBEAM	Beam	None	6061-T6	Typical	1.438	1.336	0.421	0.03
8	L Brace	L2X2X0.188	VBrace	None	6061-T6	Typical	0.723	0.268	0.268	0.008

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N41	N3		L Brace	VBrace	None	6061-T6	Typical
2	M2	N14	N41		L Brace	VBrace	None	6061-T6	Typical
3	M3	N12	N41		L Brace	VBrace	None	6061-T6	Typical
4	M4	N41	N5		L Brace	VBrace	None	6061-T6	Typical
5	M5	N20	N24	270	Landing Edge Bm	Beam	None	6061-T6	Typical
6	M6	N22	N12	270	Landing Edge Bm	Beam	None	6061-T6	Typical
7	M7	N20	N21	270	Landing Edge Bm	Beam	None	6061-T6	Typical
8	M8	N10	N20	270	Landing Edge Bm	Beam	None	6061-T6	Typical
9	M9	N11	N10	270	Landing Edge Bm	Beam	None	6061-T6	Typical
10	M10	N21	N1	270	Landing Edge Bm	Beam	None	6061-T6	Typical
11	M11	N17	N21	270	Landing Edge Bm	Beam	None	6061-T6	Typical
12	M12	N1	N2	270	Landing Edge Bm	Beam	None	6061-T6	Typical
13	M13	N2	N3	270	Landing Edge Bm	Beam	None	6061-T6	Typical
14	M14	N10	N1	270	Landing Edge Bm	Beam	None	6061-T6	Typical
15	M15	N23	N22	270	Landing Edge Bm	Beam	None	6061-T6	Typical
16	M16	N11	N2	270	Landing Edge Bm	Beam	None	6061-T6	Typical
17	M17	N3	N23	270	Landing Edge Bm	Beam	None	6061-T6	Typical
18	M18	N24	N17	270	Landing Edge Bm	Beam	None	6061-T6	Typical
19	M19	N12	N11	270	Landing Edge Bm	Beam	None	6061-T6	Typical
20	M20	N40	N31		Post	Column	Rectangular Tubes	6061-T6	Typical
21	M21	N39	N32		Post	Column	Rectangular Tubes	6061-T6	Typical
22	M22	N9	N11		Post	Column	Rectangular Tubes	6061-T6	Typical
23	M23	N7	N1		Post	Column	Rectangular Tubes	6061-T6	Typical
24	M24	N5	N3		Post	Column	Rectangular Tubes	6061-T6	Typical
25	M25	N15	N10		Post	Column	Rectangular Tubes	6061-T6	Typical
26	M26	N14	N12		Post	Column	Rectangular Tubes	6061-T6	Typical
27	M27	N18	N17		Post	Column	Rectangular Tubes	6061-T6	Typical
28	M28	N19	N24		Post	Column	Rectangular Tubes	6061-T6	Typical
29	M29	N8	N21		Post	Column	Rectangular Tubes	6061-T6	Typical
30	M30	N6	N2		Post	Column	Rectangular Tubes	6061-T6	Typical
31	M31	N16	N20		Post	Column	Rectangular Tubes	6061-T6	Typical
32	M32	N33	N35		Stair Stringer	Beam	None	6061-T6	Typical
33	M33	N22	N26		Stair Stringer	Beam	None	6061-T6	Typical
34	M34	N25	N28		Stair Stringer	Beam	None	6061-T6	Typical
35	M35	N26	N27		Stair Stringer	Beam	None	6061-T6	Typical
36	M36	N27	N29		Stair Stringer	Beam	None	6061-T6	Typical
37	M37	N28	N30		Stair Stringer	Beam	None	6061-T6	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
38	M38	N29	N31		Stair Stringer	Beam	None	6061-T6	Typical
39	M39	N30	N32		Stair Stringer	Beam	None	6061-T6	Typical
40	M40	N31	N33		Stair Stringer	Beam	None	6061-T6	Typical
41	M41	N38	N4		Stair Stringer	Beam	None	6061-T6	Typical
42	M42	N37	N13		Stair Stringer	Beam	None	6061-T6	Typical
43	M43	N36	N38		Stair Stringer	Beam	None	6061-T6	Typical
44	M44	N35	N37		Stair Stringer	Beam	None	6061-T6	Typical
45	M45	N34	N36		Stair Stringer	Beam	None	6061-T6	Typical
46	M46	N32	N34		Stair Stringer	Beam	None	6061-T6	Typical
47	M47	N23	N25		Stair Stringer	Beam	None	6061-T6	Typical
48	M48	N37	N38	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
49	M49	N35	N36	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
50	M50	N33	N34	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
51	M51	N31	N32	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
52	M52	N29	N30	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
53	M53	N27	N28	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
54	M54	N26	N25	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
55	M55	N50	N45		L Brace	VBrace	None	6061-T6	Typical
56	M56	N50	N44		L Brace	VBrace	None	6061-T6	Typical
57	M57	N46	N50		L Brace	VBrace	None	6061-T6	Typical
58	M58	N49	N50		L Brace	VBrace	None	6061-T6	Typical
59	M59	N47	N49	270	Landing Edge Bm	Beam	None	6061-T6	Typical
60	M60	N47	N48	270	Landing Edge Bm	Beam	None	6061-T6	Typical
61	M61	N24	N47	270	Landing Edge Bm	Beam	None	6061-T6	Typical
62	M62	N48	N17	270	Landing Edge Bm	Beam	None	6061-T6	Typical
63	M63	N44	N48	270	Landing Edge Bm	Beam	None	6061-T6	Typical
64	M64	N49	N44	270	Landing Edge Bm	Beam	None	6061-T6	Typical
65	M65	N45	N44		Post	Column	Rectangular Tubes	6061-T6	Typical
66	M66	N46	N49		Post	Column	Rectangular Tubes	6061-T6	Typical
67	M67	N42	N48		Post	Column	Rectangular Tubes	6061-T6	Typical
68	M68	N43	N47		Post	Column	Rectangular Tubes	6061-T6	Typical
69	M69	N51	N8		L Brace	VBrace	None	6061-T6	Typical
70	M70	N51	N21		L Brace	VBrace	None	6061-T6	Typical
71	M71	N16	N51		L Brace	VBrace	None	6061-T6	Typical
72	M72	N20	N51		L Brace	VBrace	None	6061-T6	Typical
73	M73	N53	N1		L Brace	VBrace	None	6061-T6	Typical
74	M74	N9	N52		L Brace	VBrace	None	6061-T6	Typical
75	M75	N6	N53		L Brace	VBrace	None	6061-T6	Typical
76	M76	N7	N53		L Brace	VBrace	None	6061-T6	Typical
77	M77	N15	N52		L Brace	VBrace	None	6061-T6	Typical
78	M78	N53	N2		L Brace	VBrace	None	6061-T6	Typical
79	M79	N52	N10		L Brace	VBrace	None	6061-T6	Typical
80	M80	N52	N11		L Brace	VBrace	None	6061-T6	Typical

Member Advanced Data

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
1	M1	BenPIN	BenPIN			** NA **	None
2	M2	BenPIN	BenPIN			** NA **	None
3	M3	BenPIN				** NA **	None
4	M4		BenPIN			** NA **	None
5	M5	BenPIN	BenPIN			Default	None
6	M6					Default	None
7	M7	BenPIN	BenPIN			Default	None
8	M8	BenPIN	BenPIN			Default	None
9	M9	BenPIN	BenPIN			Default	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
10	M10	BenPIN	BenPIN			Default	None
11	M11	BenPIN	BenPIN			Default	None
12	M12	BenPIN	BenPIN			Default	None
13	M13	BenPIN	BenPIN			Default	None
14	M14	BenPIN	BenPIN			Default	None
15	M15					Default	None
16	M16	BenPIN	BenPIN			Default	None
17	M17	BenPIN				Default	None
18	M18	BenPIN	BenPIN			Default	None
19	M19	BenPIN	BenPIN			Default	None
20	M20		BenPIN			** NA **	None
21	M21		BenPIN			** NA **	None
22	M22					** NA **	None
23	M23					** NA **	None
24	M24					** NA **	None
25	M25					** NA **	None
26	M26					** NA **	None
27	M27					** NA **	None
28	M28					** NA **	None
29	M29					** NA **	None
30	M30					** NA **	None
31	M31					** NA **	None
32	M32					Default	None
33	M33	BenPIN				Default	None
34	M34					Default	None
35	M35					Default	None
36	M36					Default	None
37	M37					Default	None
38	M38					Default	None
39	M39					Default	None
40	M40					Default	None
41	M41					Default	None
42	M42					Default	None
43	M43					Default	None
44	M44					Default	None
45	M45					Default	None
46	M46					Default	None
47	M47	BenPIN				Default	None
48	M48					Default	None
49	M49					Default	None
50	M50					Default	None
51	M51					Default	None
52	M52					Default	None
53	M53					Default	None
54	M54					Default	None
55	M55	BenPIN	BenPIN			** NA **	None
56	M56		BenPIN			** NA **	None
57	M57	BenPIN				** NA **	None
58	M58	BenPIN	BenPIN			** NA **	None
59	M59	BenPIN	BenPIN			Default	None
60	M60	BenPIN	BenPIN			Default	None
61	M61	BenPIN	BenPIN			Default	None
62	M62	BenPIN	BenPIN			Default	None
63	M63	BenPIN	BenPIN			Default	None
64	M64	BenPIN	BenPIN			Default	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
65	M65					** NA **	None
66	M66					** NA **	None
67	M67					** NA **	None
68	M68					** NA **	None
69	M69		BenPIN			** NA **	None
70	M70	BenPIN	BenPIN			** NA **	None
71	M71	BenPIN	BenPIN			** NA **	None
72	M72	BenPIN				** NA **	None
73	M73	BenPIN	BenPIN			** NA **	None
74	M74	BenPIN	BenPIN			** NA **	None
75	M75	BenPIN	BenPIN			** NA **	None
76	M76	BenPIN				** NA **	None
77	M77	BenPIN				** NA **	None
78	M78		BenPIN			** NA **	None
79	M79	BenPIN	BenPIN			** NA **	None
80	M80		BenPIN			** NA **	None

Cold Formed Steel Design Parameters

	Label	Shape	Length [ft]	Lcomp top [ft]	Function
1	M48	Stair Tread	4	Lbyy	Lateral
2	M49	Stair Tread	4	Lbyy	Lateral
3	M50	Stair Tread	4	Lbyy	Lateral
4	M51	Stair Tread	4	Lbyy	Lateral
5	M52	Stair Tread	4	Lbyy	Lateral
6	M53	Stair Tread	4	Lbyy	Lateral
7	M54	Stair Tread	4	Lbyy	Lateral

Aluminum Design Parameters

	Label	Shape	Length [ft]	Lb y-y [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
1	M1	L Brace	4.301		Lbyy		Lateral
2	M2	L Brace	4.301		Lbyy		Lateral
3	M3	L Brace	4.301		Lbyy		Lateral
4	M4	L Brace	4.301		Lbyy		Lateral
5	M5	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
6	M6	Landing Edge Bm	0.5		Lbyy		Lateral
7	M7	Landing Edge Bm	5		Lbyy		Lateral
8	M8	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
9	M9	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
10	M10	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
11	M11	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
12	M12	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
13	M13	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
14	M14	Landing Edge Bm	5		Lbyy		Lateral
15	M15	Landing Edge Bm	4		Lbyy		Lateral
16	M16	Landing Edge Bm	5		Lbyy		Lateral
17	M17	Landing Edge Bm	0.5		Lbyy		Lateral
18	M18	Landing Edge Bm	5		Lbyy		Lateral
19	M19	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
20	M20	Post	3.5		Lbyy		Lateral
21	M21	Post	3.5		Lbyy		Lateral
22	M22	Post	7		Lbyy		Lateral
23	M23	Post	7		Lbyy		Lateral
24	M24	Post	7		Lbyy		Lateral

Aluminum Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
25	M25	Post	7		Lbyy		Lateral
26	M26	Post	7		Lbyy		Lateral
27	M27	Post	7		Lbyy		Lateral
28	M28	Post	7		Lbyy		Lateral
29	M29	Post	7		Lbyy		Lateral
30	M30	Post	7		Lbyy		Lateral
31	M31	Post	7		Lbyy		Lateral
32	M32	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
33	M33	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
34	M34	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
35	M35	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
36	M36	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
37	M37	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
38	M38	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
39	M39	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
40	M40	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
41	M41	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
42	M42	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
43	M43	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
44	M44	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
45	M45	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
46	M46	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
47	M47	Stair Stringer	1.329	1	Lbyy	Lbyy	Lateral
48	M55	L Brace	4.301		Lbyy		Lateral
49	M56	L Brace	4.301		Lbyy		Lateral
50	M57	L Brace	4.301		Lbyy		Lateral
51	M58	L Brace	4.301		Lbyy		Lateral
52	M59	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
53	M60	Landing Edge Bm	5		Lbyy		Lateral
54	M61	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
55	M62	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
56	M63	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
57	M64	Landing Edge Bm	5		Lbyy		Lateral
58	M65	Post	7		Lbyy		Lateral
59	M66	Post	7		Lbyy		Lateral
60	M67	Post	7		Lbyy		Lateral
61	M68	Post	7		Lbyy		Lateral
62	M69	L Brace	4.301		Lbyy		Lateral
63	M70	L Brace	4.301		Lbyy		Lateral
64	M71	L Brace	4.301		Lbyy		Lateral
65	M72	L Brace	4.301		Lbyy		Lateral
66	M73	L Brace	4.301		Lbyy		Lateral
67	M74	L Brace	4.301		Lbyy		Lateral
68	M75	L Brace	4.301		Lbyy		Lateral
69	M76	L Brace	4.301		Lbyy		Lateral
70	M77	L Brace	4.301		Lbyy		Lateral
71	M78	L Brace	4.301		Lbyy		Lateral
72	M79	L Brace	4.301		Lbyy		Lateral
73	M80	L Brace	4.301		Lbyy		Lateral

Plate Primary Data

	Label	A Node	B Node	C Node	D Node	Material	Thickness [in]
1	P1	N20	N21	N1	N10	gen_Steel	0.03
2	P2	N10	N1	N2	N11	gen_Steel	0.03
3	P3	N11	N2	N3	N12	gen_Steel	0.03

Plate Primary Data (Continued)

	Label	A Node	B Node	C Node	D Node	Material	Thickness [in]
4	P4	N24	N17	N21	N20	gen_Steel	0.03
5	P5	N4	N13	N31	N32	gen_Steel	0.03
6	P6	N31	N22	N23	N32	gen_Steel	0.03
7	P7	N47	N48	N17	N24	gen_Steel	0.03
8	P8	N49	N44	N48	N47	gen_Steel	0.03

Plate Advanced Data

	Label	Plane Stress	Rotate
1	P1		0
2	P2		0
3	P3		0
4	P4		0
5	P5		0
6	P6		0
7	P7		0
8	P8		0

Nodal Loads and Enforced Displacements

No Data to Print...

Member Point Loads

No Data to Print...

Member Distributed Loads (BLC 1 : Dead)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M11	Y	-25	-25	0	%100
2	M10	Y	-25	-25	0	%100
3	M12	Y	-25	-25	0	%100
4	M13	Y	-25	-25	0	%100
5	M47	Y	-25	-25	0	%100
6	M33	Y	-25	-25	0	%100
7	M19	Y	-25	-25	0	%100
8	M9	Y	-25	-25	0	%100
9	M8	Y	-25	-25	0	%100
10	M5	Y	-25	-25	0	%100
11	M34	Y	-25	-25	0	%100
12	M37	Y	-25	-25	0	%100
13	M39	Y	-25	-25	0	%100
14	M46	Y	-25	-25	0	%100
15	M45	Y	-25	-25	0	%100
16	M43	Y	-25	-25	0	%100
17	M41	Y	-25	-25	0	%100
18	M35	Y	-25	-25	0	%100
19	M36	Y	-25	-25	0	%100
20	M38	Y	-25	-25	0	%100
21	M40	Y	-25	-25	0	%100
22	M32	Y	-25	-25	0	%100
23	M44	Y	-25	-25	0	%100
24	M42	Y	-25	-25	0	%100
25	M59	Y	-25	-25	0	%100
26	M61	Y	-25	-25	0	%100
27	M62	Y	-25	-25	0	%100

Member Distributed Loads (BLC 1 : Dead) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
28	M63	Y	-25	-25	0	%100
29	M64	Y	-25	-25	0	%100

Member Distributed Loads (BLC 3 : Wind X)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M17	X	20	20	0	%100
2	M47	PX	40	40	0	%100
3	M33	PX	40	40	0	%100
4	M15	X	20	20	0	%100
5	M34	PX	40	40	0	%100
6	M37	PX	40	40	0	%100
7	M39	PX	40	40	0	%100
8	M46	PX	40	40	0	%100
9	M45	PX	40	40	0	%100
10	M43	PX	40	40	0	%100
11	M41	PX	40	40	0	%100
12	M35	PX	40	40	0	%100
13	M36	PX	40	40	0	%100
14	M38	PX	40	40	0	%100
15	M40	PX	40	40	0	%100
16	M32	PX	40	40	0	%100
17	M44	PX	40	40	0	%100
18	M42	PX	40	40	0	%100
19	M64	X	20	20	0	%100

Member Distributed Loads (BLC 4 : Wind Z)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M11	Z	10	10	0	%100
2	M10	Z	10	10	0	%100
3	M12	Z	10	10	0	%100
4	M13	Z	10	10	0	%100
5	M47	Z	10	10	0	%100
6	M33	Z	10	10	0	%100
7	M19	Z	10	10	0	%100
8	M9	Z	10	10	0	%100
9	M8	Z	10	10	0	%100
10	M5	Z	10	10	0	%100
11	M34	Z	10	10	0	%100
12	M37	Z	10	10	0	%100
13	M39	Z	10	10	0	%100
14	M46	Z	10	10	0	%100
15	M45	Z	10	10	0	%100
16	M43	Z	10	10	0	%100
17	M41	Z	10	10	0	%100
18	M35	Z	10	10	0	%100
19	M36	Z	10	10	0	%100
20	M38	Z	10	10	0	%100
21	M40	Z	10	10	0	%100
22	M32	Z	10	10	0	%100
23	M44	Z	10	10	0	%100
24	M42	Z	10	10	0	%100
25	M59	Z	10	10	0	%100
26	M61	Z	10	10	0	%100

Member Distributed Loads (BLC 4 : Wind Z) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
27	M62	Z	10	10	0	%100
28	M63	Z	10	10	0	%100

Member Distributed Loads (BLC 8 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M5	Y	-25	-25	6.384e-16	5
2	M8	Y	-25	-25	6.384e-16	5
3	M9	Y	-25	-25	6.384e-16	5
4	M10	Y	-25	-25	1.082e-15	5
5	M11	Y	-25	-25	1.082e-15	5
6	M12	Y	-25	-25	1.082e-15	5
7	M13	Y	-25	-25	6.384e-16	5
8	M19	Y	-25	-25	4.441e-16	5
9	M59	Y	-25	-25	6.384e-16	5
10	M61	Y	-25	-25	6.384e-16	5
11	M62	Y	-25	-25	1.082e-15	5
12	M63	Y	-25	-25	0	5
13	M15	Y	-6.644	-6.644	4.302e-16	4
14	M48	Y	-19.932	-19.932	0	4
15	M49	Y	-13.288	-13.288	0	4
16	M50	Y	-13.288	-13.288	6.939e-17	4
17	M51	Y	-13.288	-13.288	9.298e-16	4
18	M52	Y	-13.288	-13.288	2.914e-16	4
19	M53	Y	-13.288	-13.288	2.498e-15	4
20	M54	Y	-13.288	-13.288	1.499e-15	4

Member Distributed Loads (BLC 9 : BLC 2 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M5	Y	-250	-250	6.384e-16	5
2	M8	Y	-250	-250	6.384e-16	5
3	M9	Y	-250	-250	6.384e-16	5
4	M10	Y	-250	-250	1.082e-15	5
5	M11	Y	-250	-250	1.082e-15	5
6	M12	Y	-250	-250	1.082e-15	5
7	M13	Y	-250	-250	6.384e-16	5
8	M19	Y	-250	-250	4.441e-16	5
9	M59	Y	-250	-250	6.384e-16	5
10	M61	Y	-250	-250	6.384e-16	5
11	M62	Y	-250	-250	1.082e-15	5
12	M63	Y	-250	-250	0	5
13	M15	Y	-50	-50	6.8e-16	4
14	M48	Y	-150	-150	6.523e-15	4
15	M49	Y	-100	-100	7.133e-15	4
16	M50	Y	-100	-100	7.938e-15	4
17	M51	Y	-100	-100	7.3e-15	4
18	M52	Y	-100	-100	8.576e-15	4
19	M53	Y	-100	-100	6.634e-15	4
20	M54	Y	-100	-100	1.471e-15	4

Member Distributed Loads (BLC 10 : BLC 5 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M41	X	16	16	9.992e-16	1.329
2	M42	X	16	16	1.554e-15	1.329
3	M43	X	16	16	0	1.329
4	M44	X	16	16	0	1.329
5	M45	X	16	16	0	1.329
6	M46	X	16	16	4.732e-15	1.329
7	M47	X	16	16	5.315e-15	1.329
8	M5	X	20	20	6.384e-16	5
9	M8	X	20	20	6.384e-16	5
10	M9	X	20	20	6.384e-16	5
11	M10	X	20	20	1.082e-15	5
12	M11	X	20	20	1.082e-15	5
13	M12	X	20	20	1.082e-15	5
14	M13	X	20	20	6.384e-16	5
15	M19	X	20	20	4.441e-16	5
16	M59	X	20	20	6.384e-16	5
17	M61	X	20	20	6.384e-16	5
18	M62	X	20	20	1.082e-15	5
19	M63	X	20	20	0	5
20	M32	X	16	16	2.845e-15	1.329
21	M33	X	16	16	5.121e-15	1.329
22	M34	X	16	16	5.565e-15	1.329
23	M35	X	16	16	5.398e-15	1.329
24	M36	X	16	16	4.427e-15	1.329
25	M37	X	16	16	0	1.329
26	M38	X	16	16	1.318e-15	1.329
27	M39	X	16	16	5.01e-15	1.329
28	M40	X	16	16	2.845e-15	1.329

Member Distributed Loads (BLC 11 : BLC 6 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M5	Z	20	20	6.384e-16	5
2	M8	Z	20	20	6.384e-16	5
3	M9	Z	20	20	6.384e-16	5
4	M10	Z	20	20	1.082e-15	5
5	M11	Z	20	20	1.082e-15	5
6	M12	Z	20	20	1.082e-15	5
7	M13	Z	20	20	6.384e-16	5
8	M19	Z	20	20	4.441e-16	5
9	M59	Z	20	20	6.384e-16	5
10	M61	Z	20	20	6.384e-16	5
11	M62	Z	20	20	1.082e-15	5
12	M63	Z	20	20	0	5
13	M32	Z	16	16	2.845e-15	1.329
14	M33	Z	16	16	5.121e-15	1.329
15	M34	Z	16	16	5.565e-15	1.329
16	M35	Z	16	16	5.398e-15	1.329
17	M36	Z	16	16	4.427e-15	1.329
18	M37	Z	16	16	0	1.329
19	M38	Z	16	16	1.318e-15	1.329
20	M39	Z	16	16	5.01e-15	1.329
21	M40	Z	16	16	2.845e-15	1.329
22	M41	Z	16	16	9.992e-16	1.329
23	M42	Z	16	16	1.554e-15	1.329

Member Distributed Loads (BLC 11 : BLC 6 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
24	M43	Z	16	16	0	1.329
25	M44	Z	16	16	0	1.329
26	M45	Z	16	16	0	1.329
27	M46	Z	16	16	4.732e-15	1.329
28	M47	Z	16	16	5.315e-15	1.329

Member Distributed Loads (BLC 12 : BLC 7 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M5	Y	-62.5	-62.5	6.384e-16	5
2	M8	Y	-62.5	-62.5	6.384e-16	5
3	M9	Y	-62.5	-62.5	6.384e-16	5
4	M10	Y	-62.5	-62.5	1.082e-15	5
5	M11	Y	-62.5	-62.5	1.082e-15	5
6	M12	Y	-62.5	-62.5	1.082e-15	5
7	M13	Y	-62.5	-62.5	6.384e-16	5
8	M19	Y	-62.5	-62.5	4.441e-16	5
9	M59	Y	-62.5	-62.5	6.384e-16	5
10	M61	Y	-62.5	-62.5	6.384e-16	5
11	M62	Y	-62.5	-62.5	1.082e-15	5
12	M63	Y	-62.5	-62.5	0	5
13	M32	Y	-37.629	-37.629	2.845e-15	1.329
14	M33	Y	-37.629	-37.629	5.121e-15	1.329
15	M34	Y	-37.629	-37.629	5.565e-15	1.329
16	M35	Y	-37.629	-37.629	5.398e-15	1.329
17	M36	Y	-37.629	-37.629	4.427e-15	1.329
18	M37	Y	-37.629	-37.629	0	1.329
19	M38	Y	-37.629	-37.629	1.318e-15	1.329
20	M39	Y	-37.629	-37.629	5.01e-15	1.329
21	M40	Y	-37.629	-37.629	2.845e-15	1.329
22	M41	Y	-37.629	-37.629	9.992e-16	1.329
23	M42	Y	-37.629	-37.629	1.554e-15	1.329
24	M43	Y	-37.629	-37.629	0	1.329
25	M44	Y	-37.629	-37.629	0	1.329
26	M45	Y	-37.629	-37.629	0	1.329
27	M46	Y	-37.629	-37.629	4.732e-15	1.329
28	M47	Y	-37.629	-37.629	5.315e-15	1.329

Member Area Loads (BLC 1 : Dead)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N49	N44	N3	N12	Y	A-B	-10	-10	-10	-10	Yes
2	N13	N4	N23	N22	Y	B-C	-10	-10	-10	-10	Yes

Member Area Loads (BLC 2 : Live)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N49	N44	N3	N12	Y	A-B	-100	-100	-100	-100	Yes
2	N22	N23	N4	N13	PY	B-C	-100	-100	-100	-100	Yes

Member Area Loads (BLC 5 : Seismic X)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N49	N44	N3	N12	X	A-B	8	8	8	8	Yes
2	N22	N23	N4	N13	X	A-B	8	8	8	8	Yes

Member Area Loads (BLC 6 : Seismic Z)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N49	N44	N3	N12	Z	A-B	8	8	8	8	Yes
2	N22	N23	N4	N13	Z	A-B	8	8	8	8	Yes

Member Area Loads (BLC 7 : Snow)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N49	N44	N3	N12	Y	A-B	-25	-25	-25	-25	Yes
2	N22	N23	N4	N13	PY	A-B	-25	-25	-25	-25	Yes

Basic Load Cases

	BLC Description	Category	Y Gravity	Distributed	Area(Member)
1	Dead	DL	-1	29	2
2	Live	LL			2
3	Wind X	WLX		19	
4	Wind Z	WLZ		28	
5	Seismic X	ELX			2
6	Seismic Z	ELZ			2
7	Snow	SL			2
8	BLC 1 Transient Area Loads	None		20	
9	BLC 2 Transient Area Loads	None		20	
10	BLC 5 Transient Area Loads	None		28	
11	BLC 6 Transient Area Loads	None		28	
12	BLC 7 Transient Area Loads	None		28	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	Deflection 1	Yes	C	DL	1										
2	Deflection 2	Yes	C	LL	1										
3	Deflection 3	Yes	C	DL	1	LL	1								
4	IBC 21/ASCE ASD 1	Yes	C	DL	1										
5	IBC 21/ASCE ASD 2	Yes	C	DL	1	LL	1	LLS	1						
6	IBC 21/ASCE ASD 3 (b)	Yes	C	DL	1	SL	1	SLN	1						
7	IBC 21/ASCE ASD 4 (b)	Yes	C	DL	1	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75		
8	IBC 21/ASCE ASD 5 (a) (a)	Yes	C	DL	1	WLX	0.6								
9	IBC 21/ASCE ASD 5 (a) (b)	Yes	C	DL	1	WLZ	0.6								
10	IBC 21/ASCE ASD 5 (a) (c)	Yes	C	DL	1	WLX	-0.6								
11	IBC 21/ASCE ASD 5 (a) (d)	Yes	C	DL	1	WLZ	-0.6								
12	IBC 21/ASCE ASD 6 (a) (a)	Yes	C	DL	1	WLX	0.45	LL	0.75	LLS	0.75				
13	IBC 21/ASCE ASD 6 (a) (b)	Yes	C	DL	1	WLZ	0.45	LL	0.75	LLS	0.75				
14	IBC 21/ASCE ASD 6 (a) (c)	Yes	C	DL	1	WLX	-0.45	LL	0.75	LLS	0.75				
15	IBC 21/ASCE ASD 6 (a) (d)	Yes	C	DL	1	WLZ	-0.45	LL	0.75	LLS	0.75				
16	IBC 21/ASCE ASD 6 (b) (a)	Yes	C	DL	1	WLX	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
17	IBC 21/ASCE ASD 6 (b) (b)	Yes	C	DL	1	WLZ	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
18	IBC 21/ASCE ASD 6 (b) (c)	Yes	C	DL	1	WLX	-0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
19	IBC 21/ASCE ASD 6 (b) (d)	Yes	C	DL	1	WLZ	-0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
20	IBC 21/ASCE ASD 7 (a)	Yes	C	DL	0.6	WLX	0.6								
21	IBC 21/ASCE ASD 7 (b)	Yes	C	DL	0.6	WLZ	0.6								
22	IBC 21/ASCE ASD 7 (c)	Yes	C	DL	0.6	WLX	-0.6								
23	IBC 21/ASCE ASD 7 (d)	Yes	C	DL	0.6	WLZ	-0.6								
24	IBC 21/ASCE ASD 8 (a)	Yes	C	DL	1	ELX	0.7								
25	IBC 21/ASCE ASD 8 (b)	Yes	C	DL	1	ELZ	0.7								
26	IBC 21/ASCE ASD 8 (c)	Yes	C	DL	1	ELX	-0.7								
27	IBC 21/ASCE ASD 8 (d)	Yes	C	DL	1	ELZ	-0.7								
28	IBC 21/ASCE ASD 9 (a)	Yes	C	DL	1	ELX	0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
29	IBC 21/ASCE ASD 9 (b)	Yes	C	DL	1	ELZ	0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
30	IBC 21/ASCE ASD 9 (c)	Yes	C	DL	1	ELX	-0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
31	IBC 21/ASCE ASD 9 (d)	Yes	C	DL	1	ELZ	-0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
32	IBC 21/ASCE ASD 10 (a)	Yes	C	DL	0.6	ELX	0.7								
33	IBC 21/ASCE ASD 10 (b)	Yes	C	DL	0.6	ELZ	0.7								
34	IBC 21/ASCE ASD 10 (c)	Yes	C	DL	0.6	ELX	-0.7								
35	IBC 21/ASCE ASD 10 (d)	Yes	C	DL	0.6	ELZ	-0.7								

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N4	max	0	35	358.047	18	57.168	35	0	35	0	35	0	35
2		min	0	1	21.65	20	-69.537	29	0	1	0	1	0	1
3	N5	max	0.522	34	1470.597	31	430.22	31	0	35	0	35	0	35
4		min	-0.464	32	-337.131	33	-132.886	33	0	1	0	1	0	1
5	N6	max	224.249	34	2034.225	28	0.679	28	0	35	0	35	0	35
6		min	-587.564	28	-576.122	34	-0.085	31	0	1	0	1	0	1
7	N7	max	586.82	30	2030.306	30	0.243	29	0	35	0	35	0	35
8		min	-223.01	32	-575.34	32	-0.532	28	0	1	0	1	0	1
9	N8	max	0.32	34	1854.95	31	523.94	31	0	35	0	35	0	35
10		min	-0.322	32	-345.632	33	-140.47	33	0	1	0	1	0	1
11	N9	max	224.251	34	2038.242	28	0.396	28	0	35	0	35	0	35
12		min	-588.618	28	-576.186	34	-0.347	31	0	1	0	1	0	1
13	N13	max	0	35	358.723	18	64.383	27	0	35	0	35	0	35
14		min	0	1	21.934	20	-58.957	33	0	1	0	1	0	1
15	N14	max	0.493	34	1461.567	29	135.354	35	0	35	0	35	0	35
16		min	-0.436	32	-338.657	35	-415.886	29	0	1	0	1	0	1
17	N15	max	585.376	30	2027.13	30	0.206	29	0	35	0	35	0	35
18		min	-223.566	32	-576.59	32	-0.54	28	0	1	0	1	0	1
19	N16	max	0.317	34	1859.099	29	140.305	35	0	35	0	35	0	35
20		min	-0.318	32	-344.879	35	-525.203	29	0	1	0	1	0	1
21	N18	max	0.285	28	1533.084	5	0.213	29	0	35	0	35	0	35
22		min	-0.674	30	167.999	34	-0.209	31	0	1	0	1	0	1
23	N19	max	0.286	28	1533.108	5	0.212	29	0	35	0	35	0	35
24		min	-0.671	30	168.012	34	-0.209	31	0	1	0	1	0	1
25	N39	max	4.892	16	1506.407	5	0.317	29	0	35	0	35	0	35
26		min	-1.652	18	174.985	20	-0.327	31	0	1	0	1	0	1
27	N40	max	4.877	16	1504.68	5	0.317	29	0	35	0	35	0	35
28		min	-1.657	18	174.412	20	-0.326	31	0	1	0	1	0	1
29	N42	max	0.377	28	1533.398	5	0.184	29	0	35	0	35	0	35
30		min	-0.296	32	169.233	32	-0.18	31	0	1	0	1	0	1
31	N43	max	0.376	28	1533.392	5	0.183	29	0	35	0	35	0	35
32		min	-0.296	32	169.241	32	-0.181	31	0	1	0	1	0	1
33	N45	max	0.43	28	1046.963	31	296.749	31	0	35	0	35	0	35
34		min	-0.092	30	-197.857	33	-83.209	33	0	1	0	1	0	1
35	N46	max	0.428	28	1052.466	29	82.827	35	0	35	0	35	0	35
36		min	-0.092	30	-197.004	35	-298.664	29	0	1	0	1	0	1

Envelope Node Reactions (Continued)

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
37	Totals:	max	1078.115	34	23050.613	5	1078.115	27						
38		min	-1078.115	24	2910.368	20	-1078.115	25						

Envelope Node Displacements

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
1	N1	max	0.022	24	0.004	32	0.016	25	6.007e-6	29	9.678e-5	27	1.445e-4	27
2		min	-0.022	26	-0.019	30	-0.016	27	-4.81e-7	35	-8.473e-5	33	-1.431e-4	33
3	N2	max	0.022	24	0.004	34	0.016	25	2.016e-4	16	4.326e-5	33	3.143e-4	26
4		min	-0.022	26	-0.019	28	-0.016	27	-1.501e-5	22	-7.246e-5	31	-3.158e-4	24
5	N3	max	0.023	24	0.002	33	0.014	33	6.87e-3	16	4.646e-3	10	4.971e-4	24
6		min	-0.022	26	-0.014	31	-0.015	27	-5.076e-4	22	-4.663e-3	8	-4.759e-4	34
7	N4	max	0.103	16	0	20	0	29	1.474e-2	25	1.636e-2	25	4.478e-4	18
8		min	-0.074	22	0	18	0	35	-1.435e-2	27	-1.72e-2	27	-6.703e-5	20
9	N5	max	0	32	0	33	0	33	2.527e-4	22	4.756e-3	10	6.456e-4	34
10		min	0	34	0	31	0	31	-3.438e-3	16	-4.774e-3	8	-6.575e-4	24
11	N6	max	0	28	0	34	0	31	2.691e-4	33	4.334e-5	33	2.4e-4	26
12		min	0	34	0	28	0	28	-3.063e-4	27	-7.269e-5	31	-2.408e-4	24
13	N7	max	0	32	0	32	0	28	2.897e-4	25	9.765e-5	27	3.62e-4	26
14		min	0	30	0	30	0	29	-2.905e-4	27	-8.524e-5	33	-3.605e-4	24
15	N8	max	0	32	0	33	0	33	2.076e-4	33	2.567e-4	24	5.418e-4	26
16		min	0	34	0	31	0	31	-2.083e-4	27	-2.578e-4	26	-5.391e-4	24
17	N9	max	0	28	0	34	0	31	3.054e-4	25	7.239e-5	29	2.391e-4	34
18		min	0	34	0	28	0	28	-2.705e-4	35	-4.363e-5	35	-2.408e-4	24
19	N10	max	0.022	24	0.004	32	0.016	25	4.576e-7	22	8.505e-5	35	1.443e-4	25
20		min	-0.022	26	-0.019	30	-0.016	27	-7.148e-6	16	-9.667e-5	25	-1.432e-4	35
21	N11	max	0.022	24	0.004	34	0.016	33	1.484e-5	22	7.216e-5	29	3.158e-4	34
22		min	-0.022	34	-0.019	28	-0.016	27	-1.985e-4	16	-4.355e-5	35	-3.179e-4	24
23	N12	max	0.023	24	0.002	35	0.015	25	5.066e-4	22	1.033e-2	10	4.974e-4	24
24		min	-0.022	34	-0.014	29	-0.015	27	-6.869e-3	16	-1.041e-2	8	-4.773e-4	34
25	N13	max	0.103	16	0	20	0	33	1.435e-2	25	1.72e-2	25	4.536e-4	18
26		min	-0.074	22	0	18	0	27	-1.474e-2	27	-1.636e-2	27	-6.449e-5	20
27	N14	max	0	32	0	35	0	29	3.426e-3	16	1.014e-2	10	6.518e-4	34
28		min	0	34	0	29	0	35	-2.518e-4	22	-1.022e-2	8	-6.648e-4	24
29	N15	max	0	32	0	32	0	28	2.906e-4	25	8.556e-5	35	3.626e-4	26
30		min	0	30	0	30	0	29	-2.896e-4	27	-9.754e-5	25	-3.617e-4	24
31	N16	max	0	32	0	35	0	29	2.087e-4	25	1.393e-4	26	5.411e-4	26
32		min	0	34	0	29	0	35	-2.073e-4	35	-1.388e-4	24	-5.393e-4	24
33	N17	max	0.023	24	-0.003	34	0.015	25	7.77e-7	25	0	35	4.677e-4	30
34		min	-0.023	26	-0.024	3	-0.015	35	-7.194e-7	35	0	1	-2.356e-4	32
35	N18	max	0	30	0	34	0	31	2.618e-4	25	0	35	2.612e-4	34
36		min	0	28	0	3	0	29	-2.609e-4	35	0	1	-3.395e-4	28
37	N19	max	0	30	0	34	0	31	2.617e-4	25	0	35	2.618e-4	34
38		min	0	28	0	3	0	29	-2.61e-4	27	0	1	-3.391e-4	28
39	N20	max	0.023	24	0.002	35	0.016	25	1.363e-4	25	1.39e-4	26	2.687e-4	24
40		min	-0.023	26	-0.018	29	-0.015	35	-1.354e-4	35	-1.385e-4	24	-2.694e-4	26
41	N21	max	0.023	24	0.002	33	0.015	33	1.355e-4	33	2.549e-4	24	2.694e-4	32
42		min	-0.023	26	-0.018	31	-0.015	27	-1.362e-4	27	-2.56e-4	26	-2.71e-4	26
43	N22	max	0.071	8	0.003	22	0.015	33	4.59e-4	22	9.31e-3	10	1.555e-3	16
44		min	-0.071	10	-0.054	16	-0.015	27	-6.557e-3	16	-9.34e-3	8	-1.474e-4	22
45	N23	max	0.071	8	0.003	22	0.015	33	6.614e-3	16	9.394e-3	8	1.585e-3	16
46		min	-0.071	10	-0.055	16	-0.015	27	-4.629e-4	22	-9.306e-3	22	-1.481e-4	22
47	N24	max	0.023	24	-0.003	34	0.015	25	7.165e-7	33	0	35	4.646e-4	30
48		min	-0.023	26	-0.024	3	-0.015	27	-7.82e-7	27	0	1	-2.351e-4	32
49	N25	max	0.075	8	-0.001	22	0.235	25	2.645e-3	5	6.507e-5	25	7.518e-4	16
50		min	-0.074	22	-0.048	16	-0.236	27	2.012e-4	20	-6.327e-5	35	-2.359e-4	22

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
51	N26	max	0.075	8	-0.001	22	0.235	25	-2.103e-4	20	6.595e-5	25	7.29e-4	16
52		min	-0.074	22	-0.047	16	-0.236	27	-2.672e-3	3	-6.274e-5	35	-2.353e-4	22
53	N27	max	0.08	8	-0.003	22	0.222	25	-1.423e-4	33	1.039e-4	25	1.131e-3	16
54		min	-0.076	22	-0.036	16	-0.222	27	-2.617e-3	3	-1.024e-4	35	-7.494e-5	22
55	N28	max	0.08	8	-0.003	22	0.222	25	2.601e-3	5	1.031e-4	25	1.151e-3	16
56		min	-0.076	22	-0.036	16	-0.222	27	1.399e-4	35	-1.029e-4	27	-7.543e-5	22
57	N29	max	0.085	8	-0.003	22	0.146	25	-9.524e-5	33	1.348e-4	25	1.15e-3	16
58		min	-0.076	22	-0.022	3	-0.147	27	-2.612e-3	3	-1.347e-4	27	2.41e-5	22
59	N30	max	0.085	8	-0.003	22	0.146	25	2.605e-3	5	1.342e-4	33	1.165e-3	16
60		min	-0.076	22	-0.022	3	-0.147	27	9.423e-5	35	-1.355e-4	27	2.374e-5	22
61	N31	max	0.093	16	-0.001	20	0.008	33	-2.48e-4	33	1.498e-4	25	2.361e-4	16
62		min	-0.076	22	-0.012	3	-0.008	27	-2.609e-3	3	-1.507e-4	27	-7.815e-5	22
63	N32	max	0.094	16	-0.001	20	0.008	25	2.607e-3	5	1.494e-4	33	2.442e-4	16
64		min	-0.076	22	-0.012	3	-0.008	27	2.477e-4	35	-1.515e-4	27	-7.832e-5	22
65	N33	max	0.093	16	-0.001	20	0.141	25	-1.09e-4	35	1.562e-4	33	4.775e-5	20
66		min	-0.077	22	-0.014	18	-0.141	27	-2.607e-3	3	-1.575e-4	27	-1.805e-4	18
67	N34	max	0.093	16	0	20	0.141	25	2.61e-3	5	1.558e-4	33	4.889e-5	20
68		min	-0.077	22	-0.014	18	-0.141	27	1.094e-4	33	-1.583e-4	27	-1.777e-4	18
69	N35	max	0.094	16	0	20	0.216	25	-1.81e-4	35	1.638e-4	33	2.217e-4	18
70		min	-0.077	22	-0.014	18	-0.216	27	-2.609e-3	3	-1.651e-4	27	2.749e-5	20
71	N36	max	0.094	16	0	20	0.216	25	2.612e-3	5	1.633e-4	33	2.215e-4	18
72		min	-0.077	22	-0.014	18	-0.216	27	1.816e-4	33	-1.66e-4	27	2.735e-5	20
73	N37	max	0.098	16	0	20	0.229	25	-2.907e-4	33	1.669e-4	33	6.699e-4	18
74		min	-0.076	22	-0.009	18	-0.229	27	-3.884e-3	3	-1.681e-4	27	1.248e-5	20
75	N38	max	0.098	16	0	20	0.229	25	3.886e-3	5	1.664e-4	33	6.668e-4	18
76		min	-0.076	22	-0.009	18	-0.229	27	2.911e-4	35	-1.688e-4	27	1.11e-5	20
77	N39	max	0	18	0	20	0	31	1.851e-4	25	1.494e-4	33	1.801e-3	22
78		min	0	16	0	3	0	29	-1.862e-4	27	-1.515e-4	27	-2.227e-3	16
79	N40	max	0	18	0	20	0	31	1.85e-4	33	1.498e-4	25	1.801e-3	22
80		min	0	16	0	3	0	29	-1.864e-4	27	-1.507e-4	27	-2.223e-3	16
81	N41	max	0.011	24	0	22	0.005	33	1.649e-4	29	5.944e-3	10	4.33e-3	10
82		min	-0.011	26	-0.006	16	-0.005	27	-1.283e-4	35	-5.98e-3	8	-4.357e-3	8
83	N42	max	0	32	0	32	0	31	2.275e-4	25	0	35	5.738e-4	26
84		min	0	28	0	3	0	29	-2.265e-4	35	0	1	-5.294e-4	32
85	N43	max	0	32	0	32	0	31	2.273e-4	25	0	35	5.731e-4	26
86		min	0	28	0	3	0	29	-2.267e-4	35	0	1	-5.292e-4	32
87	N44	max	0.023	24	0.001	33	0.01	33	8.553e-5	33	3.744e-7	20	2.507e-4	34
88		min	-0.023	26	-0.01	31	-0.01	27	-8.601e-5	27	-6.617e-5	18	-4.332e-4	28
89	N45	max	0	30	0	33	0	33	1.304e-4	33	3.736e-7	20	3.313e-4	30
90		min	0	28	0	31	0	31	-1.309e-4	27	-6.609e-5	18	-2.742e-4	32
91	N46	max	0	30	0	35	0	29	1.316e-4	25	1.484e-4	18	3.32e-4	30
92		min	0	28	0	29	0	35	-1.3e-4	35	-1.867e-6	20	-2.748e-4	32
93	N47	max	0.023	24	-0.003	32	0.013	25	1.386e-7	32	0	35	2.332e-4	32
94		min	-0.023	26	-0.024	3	-0.013	35	-2.4e-7	30	0	1	-4.63e-4	30
95	N48	max	0.023	24	-0.003	32	0.013	25	2.416e-7	30	0	35	2.338e-4	32
96		min	-0.023	26	-0.024	3	-0.013	35	-1.318e-7	32	0	1	-4.661e-4	30
97	N49	max	0.023	24	0.001	35	0.01	25	8.663e-5	25	1.48e-4	18	2.496e-4	34
98		min	-0.023	26	-0.01	29	-0.01	35	-8.516e-5	35	-1.871e-6	20	-4.329e-4	28
99	N50	max	0.012	24	-0.001	20	0.003	25	8.391e-5	33	6.655e-5	31	2.728e-4	34
100		min	-0.012	26	-0.004	3	-0.003	35	-1.138e-4	31	-2.228e-5	33	-2.783e-4	24
101	N51	max	0.011	24	-0.001	32	0.005	25	1.931e-4	29	8.558e-5	24	2.095e-4	26
102		min	-0.011	26	-0.008	3	-0.005	35	-1.348e-4	35	-8.565e-5	26	-2.086e-4	24
103	N52	max	0.007	24	-0.001	33	0.017	28	1.651e-4	33	2.221e-5	35	1.987e-4	34
104		min	-0.007	26	-0.008	3	-0.016	30	-1.774e-4	27	-5.827e-5	29	-2.436e-4	28
105	N53	max	0.007	24	-0.001	35	0.017	28	1.772e-4	25	6.001e-5	31	1.986e-4	34

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
106		min	-0.007	26	-0.008	3	-0.016	30	-1.654e-4	35	-2.166e-5	33	-2.423e-4	28

Envelope Member Section Forces

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1	M1	1	max	705.044	29	1.085	12	0	30	0.076	8	0	35	0	35
2			min	-236.058	35	0	2	0	27	-0.076	22	0	1	0	1
3		2	max	704.285	29	0.542	12	0	30	0.076	8	0.618	12	0	2
4			min	-236.514	35	0	2	0	27	-0.076	22	0	2	-0.618	12
5		3	max	703.526	29	0	35	0	35	0.076	8	0.825	12	0	2
6			min	-236.969	35	0	1	0	1	-0.076	22	0	2	-0.825	12
7		4	max	702.767	29	0	2	0	30	0.076	8	0.618	12	0	2
8			min	-237.425	35	-0.542	9	0	27	-0.076	22	0	2	-0.618	12
9		5	max	702.008	29	0	2	0	30	0.076	8	0	35	0	35
10			min	-237.88	35	-1.085	9	0	27	-0.076	22	0	1	0	1
11	M2	1	max	710.069	29	1.085	16	0	30	0.278	10	0	35	0	35
12			min	-233.053	35	0	2	0	23	-0.28	8	0	1	0	1
13		2	max	709.31	29	0.542	16	0	30	0.278	10	0.618	30	0	2
14			min	-233.508	35	0	2	0	23	-0.28	8	0	2	-0.618	16
15		3	max	708.551	29	0	35	0	35	0.278	10	0.825	30	0	2
16			min	-233.964	35	0	1	0	1	-0.28	8	0	2	-0.825	16
17		4	max	707.791	29	0	2	0	30	0.278	10	0.618	30	0	2
18			min	-234.419	35	-0.542	29	0	23	-0.28	8	0	2	-0.618	16
19		5	max	707.032	29	0	2	0	30	0.278	10	0	35	0	35
20			min	-234.875	35	-1.085	29	0	23	-0.28	8	0	1	0	1
21	M3	1	max	727.031	31	0.89	27	0.129	31	0.046	8	0	35	0	35
22			min	-233.673	33	0	2	-0.172	29	-0.046	10	0	1	0	1
23		2	max	727.79	31	0.348	27	0.129	31	0.046	8	0.504	31	-0.005	2
24			min	-233.218	33	0	2	-0.172	29	-0.046	10	-0.006	2	-0.561	29
25		3	max	728.549	31	0	2	0.129	31	0.046	8	0.597	31	-0.01	2
26			min	-232.762	33	-0.344	25	-0.172	29	-0.046	10	-0.011	2	-0.709	29
27		4	max	729.308	31	0	2	0.129	31	0.046	8	0.276	31	0.311	31
28			min	-232.307	33	-0.886	25	-0.172	29	-0.046	10	-0.338	29	-0.445	29
29		5	max	730.067	31	0	2	0.129	31	0.046	8	-0.023	2	1.239	31
30			min	-231.851	33	-1.428	25	-0.172	29	-0.046	10	-1.275	29	-0.02	2
31	M4	1	max	731.348	31	1.428	25	0.173	29	0.162	8	-0.027	2	1.234	31
32			min	-231.006	33	0	2	-0.127	31	-0.161	10	-1.281	29	-0.024	2
33		2	max	732.108	31	0.886	25	0.173	29	0.162	8	0.273	31	0.307	31
34			min	-230.551	33	0	2	-0.127	31	-0.161	10	-0.342	29	-0.449	29
35		3	max	732.867	31	0.344	25	0.173	29	0.162	8	0.594	31	-0.012	2
36			min	-230.095	33	0	2	-0.127	31	-0.161	10	-0.013	2	-0.712	29
37		4	max	733.626	31	0	2	0.173	29	0.162	8	0.503	31	-0.006	2
38			min	-229.64	33	-0.348	27	-0.127	31	-0.161	10	-0.007	2	-0.562	29
39		5	max	734.385	31	0	2	0.173	29	0.162	8	0	35	0	35
40			min	-229.184	33	-0.89	27	-0.127	31	-0.161	10	0	1	0	1
41	M5	1	max	89.003	24	35	35	754.313	5	0.021	35	0	35	0	35
42			min	-87.23	34	-35	25	77.588	20	-0.022	25	0	1	0	1
43		2	max	71.503	24	17.5	35	377.156	5	0.021	35	707.168	5	32.812	33
44			min	-69.73	34	-17.5	25	38.794	20	-0.022	25	72.738	20	-32.812	27
45		3	max	62.5	27	0	35	0	35	0.021	35	942.891	5	43.75	33
46			min	-60.814	33	0	1	0	1	-0.022	25	96.984	20	-43.75	27
47		4	max	62.5	27	17.5	33	-38.794	35	0.021	35	707.168	5	32.812	33
48			min	-60.814	33	-17.5	27	-377.156	3	-0.022	25	72.738	20	-32.812	27
49		5	max	62.5	27	35	33	-77.588	35	0.021	35	0	35	0	35
50			min	-60.814	33	-35	27	-754.313	3	-0.022	25	0	1	0	1
51	M6	1	max	37.15	33	203.629	8	50.188	22	2.166	30	165.609	16	101.394	8

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
52			min	-202.707	31	-195.875	22	-475.075	16	-0.097	32	-19.646	22	-97.52	22
53		2	max	37.15	33	203.629	8	50.058	22	2.166	30	106.211	16	75.941	8
54			min	-202.707	31	-195.875	22	-475.29	16	-0.097	32	-13.38	22	-73.036	22
55		3	max	37.15	33	203.629	8	49.929	22	2.166	30	46.787	16	50.487	8
56			min	-202.707	31	-195.875	22	-475.506	16	-0.097	32	-7.131	22	-48.552	22
57		4	max	37.15	33	203.629	8	49.8	22	2.166	30	-0.898	22	25.033	8
58			min	-202.707	31	-195.875	22	-475.721	16	-0.097	32	-16.008	3	-24.067	22
59		5	max	37.15	33	203.629	8	49.67	22	2.166	30	5.319	22	0.417	10
60			min	-202.707	31	-195.875	22	-475.937	16	-0.097	32	-72.144	16	-0.42	8
61	M7	1	max	6.263	34	0	35	4.313	25	0.003	33	0	35	0	35
62			min	-104.178	28	0	1	0	2	-0.003	27	0	1	0	1
63		2	max	6.263	34	0	35	2.156	25	0.003	33	4.043	25	0	35
64			min	-104.178	28	0	1	0	2	-0.003	27	0	2	0	1
65		3	max	6.263	34	0	35	0	35	0.003	33	5.391	25	0	35
66			min	-104.178	28	0	1	0	1	-0.003	27	0	2	0	1
67		4	max	6.263	34	0	35	0	2	0.003	33	4.043	25	0	35
68			min	-104.178	28	0	1	-2.156	27	-0.003	27	0	2	0	1
69		5	max	6.263	34	0	35	0	2	0.003	33	0	35	0	35
70			min	-104.178	28	0	1	-4.313	27	-0.003	27	0	1	0	1
71	M8	1	max	108.416	24	35	35	754.313	5	0.022	25	0	35	0	35
72			min	-107.702	34	-35	25	77.588	20	-0.021	35	0	1	0	1
73		2	max	90.916	24	17.5	35	377.156	5	0.022	25	707.168	5	32.812	33
74			min	-90.202	34	-17.5	25	38.794	20	-0.021	35	72.738	20	-32.812	27
75		3	max	73.416	24	0	35	0	35	0.022	25	942.891	5	43.75	33
76			min	-72.702	34	0	1	0	1	-0.021	35	96.984	20	-43.75	27
77		4	max	61.93	27	17.5	33	-38.794	35	0.022	25	707.168	5	32.812	33
78			min	-61.314	33	-17.5	27	-377.156	3	-0.021	35	72.738	20	-32.812	27
79		5	max	61.93	27	35	33	-77.588	35	0.022	25	0	35	0	35
80			min	-61.314	33	-35	27	-754.313	3	-0.021	35	0	1	0	1
81	M9	1	max	69.059	35	35	35	754.313	5	0.03	16	0	35	0	35
82			min	-183.666	29	-35	25	77.588	20	-0.002	22	0	1	0	1
83		2	max	69.059	35	17.5	35	377.156	5	0.03	16	707.168	5	32.812	33
84			min	-183.666	29	-17.5	25	38.794	20	-0.002	22	72.738	20	-32.812	27
85		3	max	69.059	35	0	35	0	35	0.03	16	942.891	5	43.75	33
86			min	-183.666	29	0	1	0	1	-0.002	22	96.984	20	-43.75	27
87		4	max	69.059	35	17.5	33	-38.794	35	0.03	16	707.168	5	32.812	33
88			min	-183.666	29	-17.5	27	-377.156	3	-0.002	22	72.738	20	-32.812	27
89		5	max	69.059	35	35	33	-77.588	35	0.03	16	0	35	0	35
90			min	-183.666	29	-35	27	-754.313	3	-0.002	22	0	1	0	1
91	M10	1	max	63.804	25	35	33	754.312	5	0.021	33	0	35	0	35
92			min	-60.187	35	-35	27	77.588	20	-0.022	27	0	1	0	1
93		2	max	63.804	25	17.5	33	377.156	5	0.021	33	707.168	5	32.812	35
94			min	-60.187	35	-17.5	27	38.794	20	-0.022	27	72.738	20	-32.812	25
95		3	max	76.549	24	0	35	0	35	0.021	33	942.891	5	43.75	35
96			min	-72.902	34	0	1	0	1	-0.022	27	96.984	20	-43.75	25
97		4	max	94.049	24	17.5	35	-38.794	35	0.021	33	707.168	5	32.812	35
98			min	-90.402	34	-17.5	25	-377.156	3	-0.022	27	72.738	20	-32.812	25
99		5	max	111.549	24	35	35	-77.588	35	0.021	33	0	35	0	35
100			min	-107.902	34	-35	25	-754.313	3	-0.022	27	0	1	0	1
101	M11	1	max	63.698	25	35	33	754.312	5	0.021	27	0	35	0	35
102			min	-60.09	35	-35	27	77.588	20	-0.021	33	0	1	0	1
103		2	max	63.698	25	17.5	33	377.156	5	0.021	27	707.168	5	32.812	35
104			min	-60.09	35	-17.5	27	38.794	20	-0.021	33	72.738	20	-32.812	25
105		3	max	63.698	25	0	35	0	35	0.021	27	942.891	5	43.75	35
106			min	-60.09	35	0	1	0	1	-0.021	33	96.984	20	-43.75	25

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
107		4	max	73.51	24	17.5	35	-38.794	35	0.021	27	707.168	5	32.812	35
108			min	-69.877	34	-17.5	25	-377.156	3	-0.021	33	72.738	20	-32.812	25
109		5	max	91.01	24	35	35	-77.588	35	0.021	27	0	35	0	35
110			min	-87.377	34	-35	25	-754.313	3	-0.021	33	0	1	0	1
111	M12	1	max	70.807	33	35	33	754.312	5	0.002	22	0	35	0	35
112			min	-172.807	31	-35	27	77.588	20	-0.031	16	0	1	0	1
113		2	max	70.807	33	17.5	33	377.156	5	0.002	22	707.168	5	32.812	35
114			min	-172.807	31	-17.5	27	38.794	20	-0.031	16	72.738	20	-32.812	25
115		3	max	70.807	33	0	35	0	35	0.002	22	942.891	5	43.75	35
116			min	-172.807	31	0	1	0	1	-0.031	16	96.984	20	-43.75	25
117		4	max	70.807	33	17.5	35	-38.794	35	0.002	22	707.168	5	32.812	35
118			min	-172.807	31	-17.5	25	-377.156	3	-0.031	16	72.738	20	-32.812	25
119		5	max	70.807	33	35	35	-77.588	35	0.002	22	0	35	0	35
120			min	-172.807	31	-35	25	-754.313	3	-0.031	16	0	1	0	1
121	M13	1	max	82.949	26	35	33	754.313	5	0.078	22	0	35	0	35
122			min	-77.302	32	-35	27	77.588	20	-1.057	16	0	1	0	1
123		2	max	65.449	26	17.5	33	377.156	5	0.078	22	707.168	5	32.812	35
124			min	-59.802	32	-17.5	27	38.794	20	-1.057	16	72.738	20	-32.812	25
125		3	max	60.854	10	0	35	0	35	0.078	22	942.891	5	43.75	35
126			min	-55.124	20	0	1	0	1	-1.057	16	96.984	20	-43.75	25
127		4	max	60.854	10	17.5	35	-38.794	35	0.078	22	707.168	5	32.812	35
128			min	-55.124	20	-17.5	25	-377.156	3	-1.057	16	72.738	20	-32.812	25
129		5	max	60.854	10	35	35	-77.588	35	0.078	22	0	35	0	35
130			min	-55.124	20	-35	25	-754.313	3	-1.057	16	0	1	0	1
131	M14	1	max	36.692	30	0	35	4.313	31	0.046	27	0	35	0	35
132			min	-9.407	32	0	1	0	2	-0.046	25	0	1	0	1
133		2	max	36.692	30	0	35	2.156	31	0.046	27	4.043	31	0	35
134			min	-9.407	32	0	1	0	2	-0.046	25	0	2	0	1
135		3	max	36.692	30	0	35	0	35	0.046	27	5.391	31	0	35
136			min	-9.407	32	0	1	0	1	-0.046	25	0	2	0	1
137		4	max	36.692	30	0	35	0	2	0.046	27	4.043	31	0	35
138			min	-9.407	32	0	1	-2.156	1	-0.046	25	0	2	0	1
139		5	max	36.692	30	0	35	0	2	0.046	27	0	35	0	35
140			min	-9.407	32	0	1	-4.313	1	-0.046	25	0	1	0	1
141	M15	1	max	1.279	20	24.036	10	114.183	5	0.043	27	191.056	16	95.477	8
142			min	-73.649	18	-23.693	20	8.442	35	-0.04	33	-24.257	22	-94.04	22
143		2	max	1.279	20	12.036	10	55.814	5	0.043	27	257.132	16	113.084	8
144			min	-73.649	18	-11.693	20	3.421	35	-0.04	33	-16.58	22	-111.991	22
145		3	max	1.279	20	1.143	31	0.848	33	0.043	27	277.338	16	118.69	8
146			min	-73.649	18	-0.319	33	-3.272	31	-0.04	33	-13.925	22	-117.984	10
147		4	max	1.279	20	12.393	8	-4.173	33	0.043	27	251.676	16	112.297	8
148			min	-73.649	18	-12.05	22	-60.924	3	-0.04	33	-16.291	22	-112.02	10
149		5	max	1.279	20	24.393	8	-9.195	33	0.043	27	180.145	16	93.904	8
150			min	-73.649	18	-24.05	22	-119.293	3	-0.04	33	-23.678	22	-94.056	10
151	M16	1	max	35.463	16	0	35	4.313	31	0.046	25	0	35	0	35
152			min	-9.064	22	0	1	0	2	-0.046	27	0	1	0	1
153		2	max	35.463	16	0	35	2.156	31	0.046	25	4.043	31	0	35
154			min	-9.064	22	0	1	0	2	-0.046	27	0	2	0	1
155		3	max	35.463	16	0	35	0	35	0.046	25	5.391	31	0	35
156			min	-9.064	22	0	1	0	1	-0.046	27	0	2	0	1
157		4	max	35.463	16	0	35	0	2	0.046	25	4.043	31	0	35
158			min	-9.064	22	0	1	-2.156	1	-0.046	27	0	2	0	1
159		5	max	35.463	16	0	35	0	2	0.046	25	0	35	0	35
160			min	-9.064	22	0	1	-4.313	1	-0.046	27	0	1	0	1
161	M17	1	max	38.855	35	198.25	10	408.64	16	0.083	32	0	35	0	35

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
162			min	-191.824	29	-189.973	20	-43.019	22	-2.196	30	0	1	0	1
163		2	max	38.855	35	196.75	10	408.424	16	0.083	32	51.066	16	23.653	20
164			min	-191.824	29	-188.473	20	-43.148	22	-2.196	30	-5.385	22	-24.687	10
165		3	max	38.855	35	195.25	10	408.208	16	0.083	32	102.106	16	47.118	20
166			min	-191.824	29	-186.973	20	-43.278	22	-2.196	30	-10.787	22	-49.187	10
167		4	max	38.855	35	193.75	10	407.993	16	0.083	32	153.119	16	70.396	20
168			min	-191.824	29	-185.473	20	-43.407	22	-2.196	30	-16.205	22	-73.5	10
169		5	max	38.855	35	192.25	10	407.777	16	0.083	32	204.104	16	93.486	20
170			min	-191.824	29	-183.973	20	-43.536	22	-2.196	30	-21.639	22	-97.625	10
171	M18	1	max	19.109	30	0	35	4.313	31	0.04	25	0	35	0	35
172			min	-9.297	32	0	1	0	2	-0.04	35	0	1	0	1
173		2	max	19.109	30	0	35	2.156	31	0.04	25	4.043	31	0	35
174			min	-9.297	32	0	1	0	2	-0.04	35	0	2	0	1
175		3	max	19.109	30	0	35	0	35	0.04	25	5.391	31	0	35
176			min	-9.297	32	0	1	0	1	-0.04	35	0	2	0	1
177		4	max	19.109	30	0	35	0	2	0.04	25	4.043	31	0	35
178			min	-9.297	32	0	1	-2.156	1	-0.04	35	0	2	0	1
179		5	max	19.109	30	0	35	0	2	0.04	25	0	35	0	35
180			min	-9.297	32	0	1	-4.313	1	-0.04	35	0	1	0	1
181	M19	1	max	59.338	22	35	35	754.312	5	1.058	16	0	35	0	35
182			min	-60.329	8	-35	25	77.588	20	-0.078	22	0	1	0	1
183		2	max	59.338	22	17.5	35	377.156	5	1.058	16	707.168	5	32.812	33
184			min	-60.329	8	-17.5	25	38.794	20	-0.078	22	72.738	20	-32.812	27
185		3	max	59.338	22	0	35	0	35	1.058	16	942.891	5	43.75	33
186			min	-60.329	8	0	1	0	1	-0.078	22	96.984	20	-43.75	27
187		4	max	64.286	34	17.5	33	-38.794	35	1.058	16	707.168	5	32.812	33
188			min	-65.329	24	-17.5	27	-377.156	3	-0.078	22	72.738	20	-32.812	27
189		5	max	81.786	34	35	33	-77.588	35	1.058	16	0	35	0	35
190			min	-82.829	24	-35	27	-754.312	3	-0.078	22	0	1	0	1
191	M20	1	max	1504.68	5	0	35	0	35	0	35	0	35	0	35
192			min	174.412	20	0	1	0	1	0	1	0	1	0	1
193		2	max	1503.985	5	0	35	0	35	0	35	0	35	0	35
194			min	173.995	20	0	1	0	1	0	1	0	1	0	1
195		3	max	1503.289	5	0	35	0	35	0	35	0	35	0	35
196			min	173.577	20	0	1	0	1	0	1	0	1	0	1
197		4	max	1502.594	5	0	35	0	35	0	35	0	35	0	35
198			min	173.16	20	0	1	0	1	0	1	0	1	0	1
199		5	max	1501.898	5	0	35	0	35	0	35	0	35	0	35
200			min	172.743	20	0	1	0	1	0	1	0	1	0	1
201	M21	1	max	1506.407	5	0	35	0	35	0	35	0	35	0	35
202			min	174.985	20	0	1	0	1	0	1	0	1	0	1
203		2	max	1505.711	5	0	35	0	35	0	35	0	35	0	35
204			min	174.568	20	0	1	0	1	0	1	0	1	0	1
205		3	max	1505.015	5	0	35	0	35	0	35	0	35	0	35
206			min	174.15	20	0	1	0	1	0	1	0	1	0	1
207		4	max	1504.32	5	0	35	0	35	0	35	0	35	0	35
208			min	173.733	20	0	1	0	1	0	1	0	1	0	1
209		5	max	1503.624	5	0	35	0	35	0	35	0	35	0	35
210			min	173.316	20	0	1	0	1	0	1	0	1	0	1
211	M22	1	max	1211.714	28	0.103	27	0.117	35	0	29	0	29	0	35
212			min	-263.302	34	-0.103	25	-0.223	29	0	35	0	35	0	1
213		2	max	1210.323	28	0.103	27	0.117	35	0	29	0.205	35	0.18	25
214			min	-264.136	34	-0.103	25	-0.223	29	0	35	-0.39	29	-0.18	27
215		3	max	1208.932	28	0.103	27	0.117	35	0	29	0.409	35	0.36	25
216			min	-264.971	34	-0.103	25	-0.223	29	0	35	-0.78	29	-0.359	27

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
217		4	max	1207.541	28	0.103	27	0.117	35	0	29	0.614	35	0.54	25
218			min	-265.806	34	-0.103	25	-0.223	29	0	35	-1.17	29	-0.539	27
219		5	max	1206.15	28	0.103	27	0.117	35	0	29	0.818	35	0.719	25
220			min	-266.64	34	-0.103	25	-0.223	29	0	35	-1.561	29	-0.719	27
221	M23	1	max	1207.439	30	0.139	24	0.141	27	0.002	31	0	33	0	35
222			min	-263.983	32	-0.139	26	-0.14	33	-0.001	33	-0.001	31	0	1
223		2	max	1206.048	30	0.139	24	0.141	27	0.002	31	0.246	27	0.242	26
224			min	-264.817	32	-0.139	26	-0.14	33	-0.001	33	-0.244	33	-0.243	24
225		3	max	1204.657	30	0.139	24	0.141	27	0.002	31	0.493	27	0.485	26
226			min	-265.652	32	-0.139	26	-0.14	33	-0.001	33	-0.488	33	-0.485	24
227		4	max	1203.266	30	0.139	24	0.141	27	0.002	31	0.74	27	0.727	26
228			min	-266.487	32	-0.139	26	-0.14	33	-0.001	33	-0.733	33	-0.728	24
229		5	max	1201.875	30	0.139	24	0.141	27	0.002	31	0.987	27	0.97	26
230			min	-267.321	32	-0.139	26	-0.14	33	-0.001	33	-0.977	33	-0.97	24
231	M24	1	max	872.537	31	0.546	24	5.001	16	0.131	10	0	35	0.093	10
232			min	-150.875	33	-0.53	34	-0.369	22	-0.131	8	0	1	-0.094	8
233		2	max	871.146	31	0.546	24	5.001	16	0.131	10	8.751	16	0.976	34
234			min	-151.71	33	-0.53	34	-0.369	22	-0.131	8	-0.645	22	-1.005	24
235		3	max	869.755	31	0.546	24	5.001	16	0.131	10	17.502	16	1.904	34
236			min	-152.545	33	-0.53	34	-0.369	22	-0.131	8	-1.291	22	-1.961	24
237		4	max	868.363	31	0.546	24	5.001	16	0.131	10	26.253	16	2.833	34
238			min	-153.379	33	-0.53	34	-0.369	22	-0.131	8	-1.936	22	-2.917	24
239		5	max	866.972	31	0.546	24	5.001	16	0.131	10	35.004	16	3.761	34
240			min	-154.214	33	-0.53	34	-0.369	22	-0.131	8	-2.582	22	-3.873	24
241	M25	1	max	1206.279	30	0.14	24	0.14	35	0.001	35	0.001	29	0	35
242			min	-264.455	32	-0.14	26	-0.141	25	-0.002	29	0	35	0	1
243		2	max	1204.888	30	0.14	24	0.14	35	0.001	35	0.244	35	0.244	26
244			min	-265.289	32	-0.14	26	-0.141	25	-0.002	29	-0.247	25	-0.245	24
245		3	max	1203.497	30	0.14	24	0.14	35	0.001	35	0.488	35	0.489	26
246			min	-266.124	32	-0.14	26	-0.141	25	-0.002	29	-0.494	25	-0.489	24
247		4	max	1202.106	30	0.14	24	0.14	35	0.001	35	0.732	35	0.733	26
248			min	-266.958	32	-0.14	26	-0.141	25	-0.002	29	-0.741	25	-0.734	24
249		5	max	1200.715	30	0.14	24	0.14	35	0.001	35	0.976	35	0.978	26
250			min	-267.793	32	-0.14	26	-0.141	25	-0.002	29	-0.989	25	-0.978	24
251	M26	1	max	883.136	29	0.539	24	0.368	22	0.228	8	0	35	0.162	10
252			min	-149.393	35	-0.524	34	-4.995	16	-0.227	10	0	1	-0.163	8
253		2	max	881.745	29	0.539	24	0.368	22	0.228	8	0.644	22	1.001	34
254			min	-150.227	35	-0.524	34	-4.995	16	-0.227	10	-8.741	16	-1.03	24
255		3	max	880.354	29	0.539	24	0.368	22	0.228	8	1.288	22	1.917	34
256			min	-151.062	35	-0.524	34	-4.995	16	-0.227	10	-17.482	16	-1.974	24
257		4	max	878.963	29	0.539	24	0.368	22	0.228	8	1.932	22	2.834	34
258			min	-151.896	35	-0.524	34	-4.995	16	-0.227	10	-26.222	16	-2.917	24
259		5	max	877.572	29	0.539	24	0.368	22	0.228	8	2.576	22	3.75	34
260			min	-152.731	35	-0.524	34	-4.995	16	-0.227	10	-34.963	16	-3.861	24
261	M27	1	max	1533.084	5	0.265	29	0.126	35	0	35	0	35	0	35
262			min	167.999	34	-0.074	35	-0.127	25	0	1	0	1	0	1
263		2	max	1531.693	5	0.265	29	0.126	35	0	35	0.221	35	0.13	35
264			min	167.165	34	-0.074	35	-0.127	25	0	1	-0.222	25	-0.463	29
265		3	max	1530.302	5	0.265	29	0.126	35	0	35	0.442	35	0.259	35
266			min	166.33	34	-0.074	35	-0.127	25	0	1	-0.443	25	-0.926	29
267		4	max	1528.911	5	0.265	29	0.126	35	0	35	0.663	35	0.389	35
268			min	165.495	34	-0.074	35	-0.127	25	0	1	-0.665	25	-1.39	29
269		5	max	1527.52	5	0.265	29	0.126	35	0	35	0.884	35	0.519	35
270			min	164.661	34	-0.074	35	-0.127	25	0	1	-0.887	25	-1.853	29
271	M28	1	max	1533.108	5	0.263	31	0.126	35	0	35	0	35	0	35

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
272			min	168.012	34	-0.074	33	-0.127	25	0	1	0	1	0	1
273		2	max	1531.717	5	0.263	31	0.126	35	0	35	0.221	35	0.13	33
274			min	167.177	34	-0.074	33	-0.127	25	0	1	-0.222	25	-0.46	31
275		3	max	1530.326	5	0.263	31	0.126	35	0	35	0.442	35	0.26	33
276			min	166.343	34	-0.074	33	-0.127	25	0	1	-0.443	25	-0.921	31
277		4	max	1528.935	5	0.263	31	0.126	35	0	35	0.663	35	0.39	33
278			min	165.508	34	-0.074	33	-0.127	25	0	1	-0.665	25	-1.381	31
279		5	max	1527.544	5	0.263	31	0.126	35	0	35	0.884	35	0.52	33
280			min	164.673	34	-0.074	33	-0.127	25	0	1	-0.886	25	-1.842	31
281	M29	1	max	1120.084	31	0.393	24	0.035	27	0.002	24	0	35	0.001	24
282			min	-149.713	33	-0.395	26	-0.035	25	-0.002	26	0	1	-0.001	26
283		2	max	1118.693	31	0.393	24	0.035	27	0.002	24	0.061	27	0.689	26
284			min	-150.548	33	-0.395	26	-0.035	25	-0.002	26	-0.061	25	-0.686	24
285		3	max	1117.302	31	0.393	24	0.035	27	0.002	24	0.122	27	1.38	26
286			min	-151.382	33	-0.395	26	-0.035	25	-0.002	26	-0.122	25	-1.373	24
287		4	max	1115.911	31	0.393	24	0.035	27	0.002	24	0.184	27	2.071	26
288			min	-152.217	33	-0.395	26	-0.035	25	-0.002	26	-0.184	25	-2.06	24
289		5	max	1114.52	31	0.393	24	0.035	27	0.002	24	0.245	27	2.762	26
290			min	-153.051	33	-0.395	26	-0.035	25	-0.002	26	-0.245	25	-2.747	24
291	M30	1	max	1209.183	28	0.103	25	0.226	31	0	33	0	33	0	35
292			min	-263.243	34	-0.103	27	-0.116	33	0	31	0	31	0	1
293		2	max	1207.792	28	0.103	25	0.226	31	0	33	0.395	31	0.18	27
294			min	-264.078	34	-0.103	27	-0.116	33	0	31	-0.202	33	-0.18	25
295		3	max	1206.401	28	0.103	25	0.226	31	0	33	0.791	31	0.36	27
296			min	-264.912	34	-0.103	27	-0.116	33	0	31	-0.405	33	-0.359	25
297		4	max	1205.01	28	0.103	25	0.226	31	0	33	1.186	31	0.54	27
298			min	-265.747	34	-0.103	27	-0.116	33	0	31	-0.607	33	-0.539	25
299		5	max	1203.619	28	0.103	25	0.226	31	0	33	1.581	31	0.72	27
300			min	-266.582	34	-0.103	27	-0.116	33	0	31	-0.809	33	-0.718	25
301	M31	1	max	1121.686	29	0.392	24	0.035	35	0	26	0	35	0	24
302			min	-149.621	35	-0.393	26	-0.035	25	0	24	0	1	0	26
303		2	max	1120.295	29	0.392	24	0.035	35	0	26	0.061	35	0.688	26
304			min	-150.455	35	-0.393	26	-0.035	25	0	24	-0.061	25	-0.686	24
305		3	max	1118.904	29	0.392	24	0.035	35	0	26	0.122	35	1.376	26
306			min	-151.29	35	-0.393	26	-0.035	25	0	24	-0.123	25	-1.372	24
307		4	max	1117.513	29	0.392	24	0.035	35	0	26	0.183	35	2.064	26
308			min	-152.125	35	-0.393	26	-0.035	25	0	24	-0.184	25	-2.058	24
309		5	max	1116.122	29	0.392	24	0.035	35	0	26	0.244	35	2.753	26
310			min	-152.959	35	-0.393	26	-0.035	25	0	24	-0.246	25	-2.744	24
311	M32	1	max	9.381	22	152.342	18	27.198	27	0.04	35	13.38	33	17.16	20
312			min	-207.691	16	12.967	20	-25.135	33	-0.04	33	-15.562	31	-94.573	18
313		2	max	9.027	22	135.844	18	24.38	31	0.04	35	5.648	33	12.961	20
314			min	-192.561	16	12.314	20	-21.414	33	-0.04	33	-7	31	-142.44	18
315		3	max	9.601	35	122.223	5	21.59	31	0.04	35	0.847	27	8.978	20
316			min	-178.426	29	11.662	20	-17.694	33	-0.04	33	-0.847	33	-184.826	18
317		4	max	13.197	35	115.373	5	18.8	31	0.04	35	7.344	31	5.213	20
318			min	-166.259	29	11.009	20	-13.973	33	-0.04	33	-6.107	33	-221.732	18
319		5	max	16.793	35	108.523	5	16.009	31	0.04	35	13.126	31	1.664	20
320			min	-154.092	29	10.118	35	-10.253	33	-0.04	33	-10.131	33	-253.157	18
321	M33	1	max	62.373	22	215.794	18	19.69	27	3.731	20	0	35	0	35
322			min	-323.748	16	9.167	20	-19.159	33	-5.129	18	0	1	0	1
323		2	max	62.018	22	199.295	18	15.969	27	3.731	20	5.923	27	-2.937	20
324			min	-308.617	16	8.514	20	-15.438	33	-5.129	18	-5.746	33	-68.945	18
325		3	max	61.664	22	182.797	18	12.249	27	3.731	20	10.61	27	-5.657	20
326			min	-293.487	16	7.861	20	-11.718	33	-5.129	18	-10.257	33	-132.409	18

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
327		4	max	61.309	22	166.418	5	8.528	27	3.731	20	14.061	27	-8.159	20
328			min	-278.356	16	7.208	20	-7.997	33	-5.129	18	-13.531	33	-190.392	18
329		5	max	60.954	22	159.568	5	5.233	31	3.731	20	16.276	27	-10.446	20
330			min	-263.226	16	6.555	20	-4.277	33	-5.129	18	-15.57	33	-242.895	18
331	M34	1	max	72.331	22	20.528	10	3.758	35	0.047	18	4.582	5	-10.167	20
332			min	-108.677	16	-26.204	2	-9.281	29	-0.029	20	0.046	33	-242.256	18
333		2	max	71.976	22	10.518	22	0.037	35	0.047	18	2.576	31	-6.466	20
334			min	-93.546	16	-28.856	12	-6.875	3	-0.029	20	-1.023	33	-242.104	18
335		3	max	71.621	22	2.951	22	2.361	33	0.047	18	0.862	27	-2.547	20
336			min	-82.185	8	-36.831	16	-7.17	31	-0.029	20	-0.857	33	-236.473	18
337		4	max	71.267	22	-4.616	22	6.082	33	0.047	18	0.546	33	1.589	20
338			min	-72.24	8	-48.144	16	-9.961	31	-0.029	20	-2.27	3	-225.36	18
339		5	max	73.306	10	-10.475	33	9.802	33	0.047	18	3.184	33	5.941	20
340			min	-64.179	20	-60.611	31	-12.751	31	-0.029	20	-5.96	31	-208.767	18
341	M35	1	max	75.971	22	20.574	10	9.288	31	0.026	20	-0.048	35	-10.445	20
342			min	-139.419	16	-25.735	2	-3.756	33	-0.055	18	-4.585	3	-242.893	18
343		2	max	75.616	22	10.501	22	6.879	5	0.026	20	1.022	35	-6.813	20
344			min	-124.288	16	-28.264	12	-0.036	33	-0.055	18	-2.579	29	-242.908	18
345		3	max	75.262	22	2.934	22	7.178	29	0.026	20	0.857	35	-2.964	20
346			min	-109.158	16	-36.18	16	-2.36	35	-0.055	18	-0.862	25	-237.442	18
347		4	max	74.907	22	-4.634	22	9.968	29	0.026	20	2.27	5	1.102	20
348			min	-94.027	16	-47.493	16	-6.08	35	-0.055	18	-0.545	35	-226.495	18
349		5	max	74.552	22	-10.4	35	12.759	29	0.026	20	5.965	29	5.385	20
350			min	-84.612	12	-60.026	29	-9.801	35	-0.055	18	-3.183	35	-210.068	18
351	M36	1	max	160.762	18	-27.577	35	13.496	29	0.011	27	9.962	35	5.386	20
352			min	-60.849	20	-226.321	3	-9.997	35	-0.017	29	-11.459	29	-210.066	18
353		2	max	169.966	18	-31.034	20	16.286	29	0.011	27	6.023	35	15.587	20
354			min	-53.302	20	-233.171	3	-13.718	35	-0.017	29	-6.602	25	-141.071	18
355		3	max	179.17	18	-31.687	20	19.181	25	0.011	27	0.848	27	26.004	20
356			min	-45.755	20	-240.021	3	-17.438	35	-0.017	29	-0.848	25	-66.596	18
357		4	max	188.374	18	-32.34	20	22.902	25	0.011	27	6.162	29	64.688	16
358			min	-38.208	20	-248.942	18	-21.159	35	-0.017	29	-5.563	35	-30.243	22
359		5	max	197.578	18	-32.993	20	26.622	25	0.011	27	14.367	25	144.427	16
360			min	-30.66	20	-265.44	18	-24.879	35	-0.017	29	-13.21	35	-11.684	22
361	M37	1	max	179.753	18	-27.654	33	10.011	33	0.011	27	11.457	31	5.94	20
362			min	-49.162	20	-227	3	-13.494	31	-0.017	29	-9.971	33	-208.769	18
363		2	max	188.957	18	-31.244	20	13.732	33	0.011	27	6.602	27	16.211	20
364			min	-41.615	20	-233.85	3	-16.285	31	-0.017	29	-6.027	33	-139.603	18
365		3	max	198.161	18	-31.897	20	17.452	33	0.011	27	0.848	27	26.699	20
366			min	-34.068	20	-240.7	3	-19.181	27	-0.017	29	-0.848	25	-64.956	18
367		4	max	207.365	18	-32.55	20	21.173	33	0.011	27	5.568	33	67.122	16
368			min	-26.52	20	-249.458	18	-22.902	27	-0.017	29	-6.162	31	-30.307	22
369		5	max	216.569	18	-33.203	20	24.893	33	0.011	27	13.219	33	147.099	16
370			min	-18.973	20	-265.956	18	-26.622	27	-0.017	29	-14.367	27	-11.755	22
371	M38	1	max	321.383	18	-50.155	20	27.553	25	0.101	25	20.129	35	144.428	16
372			min	-15.643	20	-432.999	3	-25.395	35	-0.103	27	-21.562	25	-11.684	22
373		2	max	330.587	18	-50.808	20	31.273	25	0.101	25	11.075	35	277.867	5
374			min	-8.095	20	-439.849	3	-29.116	35	-0.103	27	-11.791	25	15.09	22
375		3	max	339.791	18	-51.461	20	34.994	25	0.101	25	0.785	35	425.119	5
376			min	-0.548	20	-446.699	3	-32.836	35	-0.103	27	-0.785	33	44.378	22
377		4	max	348.995	18	-52.114	20	38.714	25	0.101	25	11.458	25	574.646	5
378			min	6.999	20	-456.521	18	-36.557	35	-0.103	27	-10.741	35	75.995	35
379		5	max	358.199	18	-52.767	20	42.435	25	0.101	25	24.937	25	726.45	5
380			min	14.547	20	-473.019	18	-40.278	35	-0.103	27	-23.503	35	101.115	35
381	M39	1	max	340.374	18	-50.37	20	25.394	33	0.102	25	21.562	27	147.097	16

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
382			min	-3.956	20	-433.667	3	-27.553	27	-0.103	27	-20.128	33	-11.755	22
383		2	max	349.578	18	-51.023	20	29.114	33	0.102	25	11.791	27	280.635	5
384			min	3.591	20	-440.517	3	-31.273	27	-0.103	27	-11.074	33	15.013	22
385		3	max	358.781	18	-51.676	20	32.835	33	0.102	25	0.785	35	428.109	5
386			min	11.138	20	-447.367	3	-34.994	27	-0.103	27	-0.785	33	44.295	22
387		4	max	367.985	18	-52.329	20	36.555	33	0.102	25	10.741	33	577.859	5
388			min	18.686	20	-457.031	18	-38.714	27	-0.103	27	-11.458	27	76.091	22
389		5	max	377.189	18	-52.982	20	40.276	33	0.102	25	23.502	33	729.884	5
390			min	26.233	20	-473.529	18	-42.435	27	-0.103	27	-24.937	27	101.518	33
391	M40	1	max	-4.217	22	359.826	18	42.079	27	0.091	25	23.304	33	357.813	5
392			min	-392.019	16	32.741	20	-39.978	33	-0.092	27	-24.701	27	50.649	35
393		2	max	-4.572	22	343.328	18	38.359	27	0.091	25	10.642	33	245.194	5
394			min	-376.889	16	32.088	20	-36.257	33	-0.092	27	-11.34	27	27.931	22
395		3	max	-4.926	22	328.742	5	34.638	27	0.091	25	0.785	35	138.883	16
396			min	-361.758	16	31.435	20	-32.537	33	-0.092	27	-0.785	33	2.459	22
397		4	max	-5.281	22	321.892	5	30.917	27	0.091	25	11.673	27	42.522	16
398			min	-346.628	16	30.783	20	-28.816	33	-0.092	27	-10.975	33	-20.498	22
399		5	max	-5.636	22	315.042	5	27.197	27	0.091	25	21.325	27	17.16	20
400			min	-332.59	3	30.13	20	-25.096	33	-0.092	27	-19.93	33	-94.574	18
401	M41	1	max	268.807	5	-32.558	20	4.821	25	0.039	29	17.236	31	12.982	20
402			min	-0.002	35	-362.598	3	-7.626	31	-0.023	35	-15.953	25	-134.735	18
403		2	max	274.8	5	-33.211	20	8.542	25	0.039	29	14.472	27	23.906	20
404			min	3.595	35	-369.448	3	-10.416	31	-0.023	35	-13.734	25	-24.535	10
405		3	max	285.356	29	-33.864	20	12.262	25	0.039	29	10.768	27	122.586	16
406			min	7.191	35	-376.298	3	-13.207	31	-0.023	35	-10.278	25	-0.544	22
407		4	max	297.523	29	-34.517	20	15.983	25	0.039	29	5.829	27	243.855	5
408			min	10.787	35	-383.148	3	-16.73	27	-0.023	35	-5.587	25	25.765	22
409		5	max	309.69	29	-35.17	20	19.704	25	0.039	29	0.341	25	372.271	5
410			min	14.383	35	-395.298	18	-20.45	27	-0.023	35	-0.347	27	50.77	33
411	M42	1	max	260.154	5	-32.58	20	7.63	29	0.024	33	15.952	27	12.443	20
412			min	-1.271	33	-362.661	3	-4.82	27	-0.036	31	-17.243	29	-136.008	18
413		2	max	266.148	5	-33.233	20	10.421	29	0.024	33	13.732	27	23.374	20
414			min	2.326	33	-369.511	3	-8.541	27	-0.036	31	-14.473	25	-24.65	10
415		3	max	277.454	31	-33.885	20	13.211	29	0.024	33	10.277	27	120.902	16
416			min	5.922	33	-376.361	3	-12.261	27	-0.036	31	-10.769	25	-0.499	22
417		4	max	289.621	31	-34.538	20	16.731	25	0.024	33	5.586	27	242.271	5
418			min	9.518	33	-383.211	3	-15.982	27	-0.036	31	-5.829	25	25.811	22
419		5	max	301.789	31	-35.191	20	20.451	25	0.024	33	0.347	25	370.708	5
420			min	13.114	33	-395.346	18	-19.702	27	-0.036	31	-0.341	27	50.59	35
421	M43	1	max	40.333	33	-6.6	35	10.124	35	0.015	35	8.745	29	2.232	20
422			min	-43.323	27	-70.545	3	-17.363	29	-0.775	3	-3.421	35	-251.819	18
423		2	max	48.776	29	-7.438	20	6.403	35	0.015	35	3.44	29	4.594	20
424			min	-38.762	35	-77.395	3	-14.573	29	-0.775	3	-0.676	35	-230.769	18
425		3	max	60.943	29	-8.091	20	2.682	35	0.015	35	0.833	35	7.173	20
426			min	-35.166	35	-88.114	18	-11.782	29	-0.775	3	-0.937	29	-204.238	18
427		4	max	73.111	29	-8.743	20	-0.504	33	0.015	35	1.106	35	9.969	20
428			min	-31.569	35	-104.612	18	-8.992	29	-0.775	3	-4.388	29	-172.227	18
429		5	max	85.278	29	-9.396	20	3.217	33	0.015	35	0.143	35	12.982	20
430			min	-27.973	35	-121.11	18	-8.48	3	-0.775	3	-6.911	29	-134.736	18
431	M44	1	max	39.045	35	-6.611	33	17.359	31	0.776	5	3.421	33	1.664	20
432			min	-45.447	25	-70.609	3	-10.123	33	-0.015	33	-8.742	31	-253.157	18
433		2	max	43.79	27	-7.459	20	14.569	31	0.776	5	0.676	33	4.034	20
434			min	-40.032	33	-77.459	3	-6.403	33	-0.015	33	-3.439	31	-232.09	18
435		3	max	53.04	31	-8.112	20	11.779	31	0.776	5	0.937	31	6.62	20
436			min	-36.436	33	-88.163	18	-2.682	33	-0.015	33	-0.833	33	-205.544	18

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
437		4	max	65.207	31	-8.765	20	8.988	31	0.776	5	4.386	31	9.423	20
438			min	-32.839	33	-104.661	18	0.504	35	-0.015	33	-1.106	33	-173.516	18
439		5	max	77.375	31	-9.418	20	8.483	5	0.776	5	6.909	31	12.443	20
440			min	-29.243	33	-121.16	18	-3.216	35	-0.015	33	-0.143	33	-136.008	18
441	M45	1	max	8.18	22	152.397	18	25.131	35	0.04	35	15.559	29	17.757	20
442			min	-197.895	16	12.989	20	-27.197	25	-0.04	25	-13.378	35	-93.163	18
443		2	max	7.826	22	135.899	18	21.411	35	0.04	35	6.998	29	13.55	20
444			min	-182.765	16	12.337	20	-24.376	29	-0.04	25	-5.647	35	-141.048	18
445		3	max	10.887	33	122.294	5	17.69	35	0.04	35	0.847	35	9.56	20
446			min	-170.544	31	11.684	20	-21.586	29	-0.04	25	-0.847	25	-183.452	18
447		4	max	14.483	33	115.444	5	13.97	35	0.04	35	6.106	35	5.788	20
448			min	-158.377	31	11.031	20	-18.795	29	-0.04	25	-7.343	29	-220.376	18
449		5	max	18.08	33	108.594	5	10.249	35	0.04	35	10.128	35	2.232	20
450			min	-146.209	31	10.128	33	-16.005	29	-0.04	25	-13.123	29	-251.819	18
451	M46	1	max	-5.418	22	359.882	18	39.979	35	0.091	25	24.7	25	359.733	5
452			min	-382.221	16	32.764	20	-42.078	25	-0.092	27	-23.305	35	50.878	33
453		2	max	-5.773	22	343.383	18	36.259	35	0.091	25	11.34	25	247.091	5
454			min	-367.09	16	32.111	20	-38.358	25	-0.092	27	-10.642	35	27.877	22
455		3	max	-6.128	22	328.814	5	32.538	35	0.091	25	0.785	35	140.848	16
456			min	-351.96	16	31.458	20	-34.637	25	-0.092	27	-0.785	33	2.406	22
457		4	max	-6.482	22	321.964	5	28.817	35	0.091	25	10.976	35	44.462	16
458			min	-336.829	16	30.805	20	-30.916	25	-0.092	27	-11.673	25	-20.551	22
459		5	max	-6.837	22	315.114	5	25.097	35	0.091	25	19.931	35	17.757	20
460			min	-323.929	3	30.152	20	-27.196	25	-0.092	27	-21.325	25	-93.163	18
461	M47	1	max	58.733	22	215.311	18	19.156	35	5.122	18	0	35	0	35
462			min	-293.001	16	8.957	20	-19.69	25	-3.734	20	0	1	0	1
463		2	max	58.378	22	198.813	18	15.435	35	5.122	18	5.746	35	-2.867	20
464			min	-277.87	16	8.304	20	-15.969	25	-3.734	20	-5.923	25	-68.784	18
465		3	max	58.023	22	182.314	18	11.715	35	5.122	18	10.255	35	-5.517	20
466			min	-262.74	16	7.651	20	-12.248	25	-3.734	20	-10.61	25	-132.088	18
467		4	max	57.668	22	165.816	18	7.994	35	5.122	18	13.529	35	-7.95	20
468			min	-247.609	16	6.998	20	-8.528	25	-3.734	20	-14.06	25	-189.911	18
469		5	max	57.313	22	158.944	5	4.274	35	5.122	18	15.566	35	-10.167	20
470			min	-232.479	16	6.345	20	-5.23	29	-3.734	20	-16.275	25	-242.254	18
471	M48	1	max	0.255	33	5.872	27	-25.741	35	0.002	33	13.434	29	11.068	35
472			min	-5.921	3	-5.872	25	-351.297	3	-0.003	27	-9.482	35	-14.537	29
473		2	max	0.255	33	5.872	27	-10.352	35	0.002	33	-17.453	33	5.239	35
474			min	-5.921	3	-5.872	25	-175.649	3	-0.003	27	-256.691	3	-9.844	29
475		3	max	0.255	33	5.872	27	5.073	27	0.002	33	-30.185	22	-0.591	22
476			min	-5.921	3	-5.872	25	-5.073	25	-0.003	27	-344.516	3	-6.54	3
477		4	max	0.255	33	5.872	27	175.647	5	0.002	33	-17.454	35	5.239	33
478			min	-5.921	3	-5.872	25	10.351	33	-0.003	27	-256.692	3	-9.843	31
479		5	max	0.255	33	5.872	27	351.296	5	0.002	33	13.432	31	11.07	33
480			min	-5.921	3	-5.872	25	25.74	33	-0.003	27	-9.483	33	-14.534	31
481	M49	1	max	1.667	5	5.628	25	-18.052	33	0.001	35	13.921	31	10.182	33
482			min	0.109	21	-5.628	27	-238.009	3	-0.001	25	-8.942	33	-16.877	31
483		2	max	1.667	5	5.628	25	-6.649	33	0.001	35	-11.787	35	4.727	33
484			min	0.109	21	-5.628	27	-119.005	3	-0.001	25	-172.64	3	-11.545	31
485		3	max	1.667	5	5.628	25	4.903	25	0.001	35	-22.241	33	-0.728	22
486			min	0.109	21	-5.628	27	-4.903	27	-0.001	25	-232.142	3	-7.88	3
487		4	max	1.667	5	5.628	25	119.004	5	0.001	35	-11.786	33	4.726	35
488			min	0.109	21	-5.628	27	6.65	35	-0.001	25	-172.641	3	-11.544	29
489		5	max	1.667	5	5.628	25	238.008	5	0.001	35	13.922	29	10.181	35
490			min	0.109	21	-5.628	27	18.053	35	-0.001	25	-8.941	35	-16.875	29
491	M50	1	max	0.008	16	13.074	25	-11.601	33	0.004	27	23.658	31	25.154	33

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
492			min	-0.039	33	-13.075	27	-238.009	3	-0.004	33	-21.837	33	-27.237	27
493		2	max	0.008	16	13.074	25	-0.199	33	0.004	27	-5.33	35	12.251	33
494			min	-0.039	33	-13.075	27	-119.005	3	-0.004	33	-172.547	3	-16.29	31
495		3	max	0.008	16	13.074	25	11.353	25	0.004	27	-22.233	22	-0.651	20
496			min	-0.039	33	-13.075	27	-11.353	27	-0.004	33	-232.049	3	-6.811	3
497		4	max	0.008	16	13.074	25	119.004	5	0.004	27	-5.329	33	12.25	35
498			min	-0.039	33	-13.075	27	0.199	35	-0.004	33	-172.547	3	-16.287	29
499		5	max	0.008	16	13.074	25	238.008	5	0.004	27	23.657	25	25.153	35
500			min	-0.039	33	-13.075	27	11.602	35	-0.004	33	-21.835	35	-27.235	25
501	M51	1	max	42.766	16	0.144	27	-22.786	20	0.007	27	5.913	5	-0.404	35
502			min	-20.049	22	-0.168	25	-237.954	3	-0.007	33	0.53	20	-6.924	3
503		2	max	42.766	16	0.144	27	-11.383	20	0.007	27	-16.514	22	-0.529	35
504			min	-20.049	22	-0.168	25	-118.95	3	-0.007	33	-172.539	3	-6.875	3
505		3	max	42.766	16	0.144	27	0.058	16	0.007	27	-22.219	22	-0.645	22
506			min	-20.049	22	-0.168	25	-0.003	22	-0.007	33	-231.986	3	-6.826	3
507		4	max	42.766	16	0.144	27	119.059	5	0.007	27	-16.515	32	-0.515	33
508			min	-20.049	22	-0.168	25	11.4	22	-0.007	33	-172.429	3	-6.777	3
509		5	max	42.766	16	0.144	27	238.063	5	0.007	27	6.132	5	-0.375	33
510			min	-20.049	22	-0.168	25	22.802	22	-0.007	33	0.581	22	-6.728	3
511	M52	1	max	0.065	29	13.013	27	-11.585	35	0.013	27	23.573	25	25.164	35
512			min	-0.074	31	-13.013	25	-238.008	3	-0.012	33	-21.869	35	-27.115	25
513		2	max	0.065	29	13.013	27	-0.183	35	0.013	27	-5.31	33	12.256	35
514			min	-0.074	31	-13.013	25	-119.004	3	-0.012	33	-172.544	3	-15.714	29
515		3	max	0.065	29	13.013	27	11.311	27	0.013	27	-22.233	20	-0.651	22
516			min	-0.074	31	-13.013	25	-11.31	25	-0.012	33	-232.046	3	-6.814	3
517		4	max	0.065	29	13.013	27	119.005	5	0.013	27	-5.312	35	12.259	33
518			min	-0.074	31	-13.013	25	0.18	33	-0.012	33	-172.544	3	-15.713	31
519		5	max	0.065	29	13.013	27	238.009	5	0.013	27	23.574	27	25.171	33
520			min	-0.074	31	-13.013	25	11.583	33	-0.012	33	-21.874	33	-27.114	27
521	M53	1	max	0.247	25	5.279	35	-18.196	35	0.017	27	11.447	29	9.898	35
522			min	-0.107	18	-5.283	33	-238.009	3	-0.016	33	-8.649	35	-13.136	29
523		2	max	0.247	25	5.279	35	-6.793	35	0.017	27	-11.92	33	4.62	35
524			min	-0.107	18	-5.283	33	-119.005	3	-0.016	33	-172.549	3	-9.277	29
525		3	max	0.247	25	5.279	35	4.61	35	0.017	27	-22.23	20	-0.616	20
526			min	-0.107	18	-5.283	33	-4.613	33	-0.016	33	-232.052	3	-6.854	3
527		4	max	0.247	25	5.279	35	119.004	5	0.017	27	-11.924	35	4.624	33
528			min	-0.107	18	-5.283	33	6.79	33	-0.016	33	-172.55	3	-9.274	31
529		5	max	0.247	25	5.279	35	238.008	5	0.017	27	11.444	31	9.906	33
530			min	-0.107	18	-5.283	33	18.192	33	-0.016	33	-8.655	33	-13.13	31
531	M54	1	max	5.131	5	5.891	25	-17.775	33	0.019	27	10.439	27	10.916	33
532			min	0.461	20	-5.892	27	-238.01	3	-0.018	33	-9.899	33	-14.94	31
533		2	max	5.131	5	5.891	25	-6.372	33	0.019	27	-11.914	35	5.086	33
534			min	0.461	20	-5.892	27	-119.006	3	-0.018	33	-175.443	3	-10.176	31
535		3	max	5.131	5	5.891	25	5.084	25	0.019	27	-19.646	20	2.016	20
536			min	0.461	20	-5.892	27	-5.085	27	-0.018	33	-234.947	3	-7.513	18
537		4	max	5.131	5	5.891	25	119.003	5	0.019	27	-11.911	33	5.083	35
538			min	0.461	20	-5.892	27	6.373	35	-0.018	33	-175.446	3	-10.172	29
539		5	max	5.131	5	5.891	25	238.007	5	0.019	27	10.438	25	10.912	35
540			min	0.461	20	-5.892	27	17.775	35	-0.018	33	-9.901	27	-14.933	29
541	M55	1	max	509.142	31	1.085	27	0	21	0	35	0	35	0	35
542			min	-144.031	33	0	2	0	16	0	29	0	1	0	1
543		2	max	509.902	31	0.542	27	0	21	0	35	0.618	27	0	2
544			min	-143.576	33	0	2	0	16	0	29	0	2	-0.618	27
545		3	max	510.661	31	0	35	0	35	0	35	0.825	27	0	2
546			min	-143.12	33	0	1	0	1	0	29	0	2	-0.825	27

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
547		4	max	511.42	31	0	2	0	21	0	35	0.618	27	0	2
548			min	-142.665	33	-0.542	13	0	16	0	29	0	2	-0.618	27
549		5	max	512.179	31	0	2	0	21	0	35	0	35	0	35
550			min	-142.209	33	-1.085	13	0	16	0	29	0	1	0	1
551	M56	1	max	510.761	29	1.422	27	0.014	31	0	35	-0.01	2	1.026	27
552			min	-144.504	35	0.002	2	-0.028	29	-0.001	29	-1.026	27	0	2
553		2	max	510.002	29	0.88	27	0.014	31	0	35	0.164	25	0.151	27
554			min	-144.959	35	0.002	2	-0.028	29	-0.001	29	-0.151	27	-0.103	33
555		3	max	509.243	29	0.337	27	0.014	31	0	35	0.521	25	0	2
556			min	-145.415	35	0.002	2	-0.028	29	-0.001	29	-0.005	2	-0.475	25
557		4	max	508.484	29	0.002	2	0.014	31	0	35	0.467	25	0	2
558			min	-145.87	35	-0.328	25	-0.028	29	-0.001	29	-0.002	2	-0.444	25
559		5	max	507.725	29	0.002	2	0.014	31	0	35	0	35	0	35
560			min	-146.326	35	-0.87	25	-0.028	29	-0.001	29	0	1	0	1
561	M57	1	max	515.142	29	0.87	25	0.028	29	0	35	0	35	0	35
562			min	-141.872	35	-0.002	2	-0.014	31	-0.001	29	0	1	0	1
563		2	max	514.382	29	0.328	25	0.028	29	0	35	0.467	25	0	2
564			min	-142.328	35	-0.002	2	-0.014	31	-0.001	29	-0.002	2	-0.444	25
565		3	max	513.623	29	-0.002	2	0.028	29	0	35	0.522	25	0.001	2
566			min	-142.783	35	-0.337	27	-0.014	31	-0.001	29	-0.004	2	-0.475	25
567		4	max	512.864	29	-0.002	2	0.028	29	0	35	0.164	25	0.151	27
568			min	-143.239	35	-0.88	27	-0.014	31	-0.001	29	-0.151	27	-0.103	33
569		5	max	512.105	29	-0.002	2	0.028	29	0	35	-0.009	2	1.026	27
570			min	-143.694	35	-1.422	27	-0.014	31	-0.001	29	-1.026	27	0.001	2
571	M58	1	max	503.93	31	1.085	27	0	33	0.002	18	0	35	0	35
572			min	-147.041	33	0	2	0	17	0	20	0	1	0	1
573		2	max	504.69	31	0.542	27	0	33	0.002	18	0.618	27	0	2
574			min	-146.585	33	0	2	0	17	0	20	0	2	-0.618	27
575		3	max	505.449	31	0	35	0	35	0.002	18	0.825	27	0	2
576			min	-146.13	33	0	1	0	1	0	20	0	2	-0.825	27
577		4	max	506.208	31	0	2	0	33	0.002	18	0.618	27	0	2
578			min	-145.674	33	-0.542	12	0	17	0	20	0	2	-0.618	27
579		5	max	506.967	31	0	2	0	33	0.002	18	0	35	0	35
580			min	-145.219	33	-1.085	12	0	17	0	20	0	1	0	1
581	M59	1	max	47.536	24	35	35	754.313	5	0.014	25	0	35	0	35
582			min	-44.66	34	-35	25	77.588	20	-0.014	35	0	1	0	1
583		2	max	40.57	27	17.5	35	377.156	5	0.014	25	707.168	5	32.812	33
584			min	-37.703	33	-17.5	25	38.794	20	-0.014	35	72.738	20	-32.812	27
585		3	max	40.57	27	0	35	0	35	0.014	25	942.891	5	43.75	33
586			min	-37.703	33	0	1	0	1	-0.014	35	96.984	20	-43.75	27
587		4	max	40.57	27	17.5	33	-38.794	35	0.014	25	707.168	5	32.812	33
588			min	-37.703	33	-17.5	27	-377.156	3	-0.014	35	72.738	20	-32.812	27
589		5	max	40.57	27	35	33	-77.588	35	0.014	25	0	35	0	35
590			min	-37.703	33	-35	27	-754.313	3	-0.014	35	0	1	0	1
591	M60	1	max	12.946	30	0	35	4.313	31	0.039	35	0	35	0	35
592			min	-3.62	32	0	1	0	2	-0.039	25	0	1	0	1
593		2	max	12.946	30	0	35	2.156	31	0.039	35	4.043	31	0	35
594			min	-3.62	32	0	1	0	2	-0.039	25	0	2	0	1
595		3	max	12.946	30	0	35	0	35	0.039	35	5.391	31	0	35
596			min	-3.62	32	0	1	0	1	-0.039	25	0	2	0	1
597		4	max	12.946	30	0	35	0	2	0.039	35	4.043	31	0	35
598			min	-3.62	32	0	1	-2.156	1	-0.039	25	0	2	0	1
599		5	max	12.946	30	0	35	0	2	0.039	35	0	35	0	35
600			min	-3.62	32	0	1	-4.313	1	-0.039	25	0	1	0	1
601	M61	1	max	82.78	35	35	35	754.313	5	0	27	0	35	0	35

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
602			min	-84.115	25	-35	25	77.588	20	0	25	0	1	0	1
603		2	max	82.78	35	17.5	35	377.156	5	0	27	707.168	5	32.812	33
604			min	-84.115	25	-17.5	25	38.794	20	0	25	72.738	20	-32.812	27
605		3	max	82.78	35	0	35	0	35	0	27	942.891	5	43.75	33
606			min	-84.115	25	0	1	0	1	0	25	96.984	20	-43.75	27
607		4	max	82.78	35	17.5	33	-38.794	35	0	27	707.168	5	32.812	33
608			min	-84.115	25	-17.5	27	-377.156	3	0	25	72.738	20	-32.812	27
609		5	max	82.78	35	35	33	-77.588	35	0	27	0	35	0	35
610			min	-84.115	25	-35	27	-754.313	3	0	25	0	1	0	1
611	M62	1	max	83.214	33	35	33	754.312	5	0	27	0	35	0	35
612			min	-83.394	27	-35	27	77.588	20	0	33	0	1	0	1
613		2	max	83.214	33	17.5	33	377.156	5	0	27	707.168	5	32.812	35
614			min	-83.394	27	-17.5	27	38.794	20	0	33	72.738	20	-32.812	25
615		3	max	83.214	33	0	35	0	35	0	27	942.891	5	43.75	35
616			min	-83.394	27	0	1	0	1	0	33	96.984	20	-43.75	25
617		4	max	83.214	33	17.5	35	-38.794	35	0	27	707.168	5	32.812	35
618			min	-83.394	27	-17.5	25	-377.156	3	0	33	72.738	20	-32.812	25
619		5	max	83.214	33	35	35	-77.588	35	0	27	0	35	0	35
620			min	-83.394	27	-35	25	-754.313	3	0	33	0	1	0	1
621	M63	1	max	40.812	25	35	33	754.313	5	0.014	33	0	35	0	35
622			min	-37.561	35	-35	27	77.588	20	-0.014	27	0	1	0	1
623		2	max	40.812	25	17.5	33	377.156	5	0.014	33	707.168	5	32.813	35
624			min	-37.561	35	-17.5	27	38.794	20	-0.014	27	72.738	20	-32.813	25
625		3	max	40.812	25	0	35	0	35	0.014	33	942.891	5	43.75	35
626			min	-37.561	35	0	1	0	1	-0.014	27	96.984	20	-43.75	25
627		4	max	40.812	25	17.5	35	-38.794	35	0.014	33	707.168	5	32.813	35
628			min	-37.561	35	-17.5	25	-377.156	3	-0.014	27	72.738	20	-32.813	25
629		5	max	47.938	24	35	35	-77.588	35	0.014	33	0	35	0	35
630			min	-44.689	34	-35	25	-754.313	3	-0.014	27	0	1	0	1
631	M64	1	max	-10.351	22	30	20	66.813	31	0.012	25	0	35	0	35
632			min	-82.182	3	-30	10	0	2	-0.012	27	0	1	0	1
633		2	max	-10.351	22	15	20	33.406	31	0.012	25	62.637	31	28.125	22
634			min	-82.182	3	-15	10	0	2	-0.012	27	0	2	-28.125	8
635		3	max	-10.351	22	0	35	0	35	0.012	25	83.516	31	37.5	22
636			min	-82.182	3	0	1	0	1	-0.012	27	0	2	-37.5	8
637		4	max	-10.351	22	15	22	0	2	0.012	25	62.637	31	28.125	22
638			min	-82.182	3	-15	8	-33.406	1	-0.012	27	0	2	-28.125	8
639		5	max	-10.351	22	30	22	0	2	0.012	25	0	35	0	35
640			min	-82.182	3	-30	8	-66.813	1	-0.012	27	0	1	0	1
641	M65	1	max	629.559	31	0.029	33	0.022	27	0	29	0	35	0	29
642			min	-82.515	33	-0.199	31	-0.022	33	0	35	0	1	0	35
643		2	max	628.168	31	0.029	33	0.022	27	0	29	0.038	27	0.349	31
644			min	-83.35	33	-0.199	31	-0.022	33	0	35	-0.038	33	-0.05	33
645		3	max	626.777	31	0.029	33	0.022	27	0	29	0.076	27	0.698	31
646			min	-84.184	33	-0.199	31	-0.022	33	0	35	-0.076	33	-0.1	33
647		4	max	625.386	31	0.029	33	0.022	27	0	29	0.114	27	1.047	31
648			min	-85.019	33	-0.199	31	-0.022	33	0	35	-0.114	33	-0.151	33
649		5	max	623.995	31	0.029	33	0.022	27	0	29	0.153	27	1.396	31
650			min	-85.854	33	-0.199	31	-0.022	33	0	35	-0.152	33	-0.201	33
651	M66	1	max	632.791	29	0.029	35	0.022	35	0	29	0	35	0	35
652			min	-81.803	35	-0.2	29	-0.022	25	0	35	0	1	0	29
653		2	max	631.4	29	0.029	35	0.022	35	0	29	0.038	35	0.35	29
654			min	-82.637	35	-0.2	29	-0.022	25	0	35	-0.038	25	-0.05	35
655		3	max	630.009	29	0.029	35	0.022	35	0	29	0.076	35	0.699	29
656			min	-83.472	35	-0.2	29	-0.022	25	0	35	-0.076	25	-0.101	35

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
657		4	max	628.618	29	0.029	35	0.022	35	0	29	0.114	35	1.049	29
658			min	-84.307	35	-0.2	29	-0.022	25	0	35	-0.114	25	-0.151	35
659		5	max	627.227	29	0.029	35	0.022	35	0	29	0.152	35	1.399	29
660			min	-85.141	35	-0.2	29	-0.022	25	0	35	-0.153	25	-0.201	35
661	M67	1	max	1533.398	5	0.37	32	0.11	35	0	35	0	35	0	35
662			min	169.233	32	-0.492	30	-0.11	25	0	1	0	1	0	1
663		2	max	1532.006	5	0.37	32	0.11	35	0	35	0.192	35	0.861	30
664			min	168.399	32	-0.492	30	-0.11	25	0	1	-0.193	25	-0.648	32
665		3	max	1530.615	5	0.37	32	0.11	35	0	35	0.385	35	1.723	30
666			min	167.564	32	-0.492	30	-0.11	25	0	1	-0.386	25	-1.296	32
667		4	max	1529.224	5	0.37	32	0.11	35	0	35	0.577	35	2.584	30
668			min	166.73	32	-0.492	30	-0.11	25	0	1	-0.579	25	-1.944	32
669		5	max	1527.833	5	0.37	32	0.11	35	0	35	0.77	35	3.446	30
670			min	165.895	32	-0.492	30	-0.11	25	0	1	-0.773	25	-2.592	32
671	M68	1	max	1533.392	5	0.37	32	0.11	35	0	35	0	35	0	35
672			min	169.241	32	-0.49	30	-0.11	25	0	1	0	1	0	1
673		2	max	1532.001	5	0.37	32	0.11	35	0	35	0.192	35	0.857	30
674			min	168.407	32	-0.49	30	-0.11	25	0	1	-0.193	25	-0.647	32
675		3	max	1530.61	5	0.37	32	0.11	35	0	35	0.385	35	1.715	30
676			min	167.572	32	-0.49	30	-0.11	25	0	1	-0.386	25	-1.295	32
677		4	max	1529.219	5	0.37	32	0.11	35	0	35	0.577	35	2.572	30
678			min	166.737	32	-0.49	30	-0.11	25	0	1	-0.579	25	-1.942	32
679		5	max	1527.828	5	0.37	32	0.11	35	0	35	0.77	35	3.43	30
680			min	165.903	32	-0.49	30	-0.11	25	0	1	-0.772	25	-2.589	32
681	M69	1	max	899.613	31	1.535	31	0.441	29	0.003	26	-0.027	2	2.644	31
682			min	-242.874	33	-0.003	2	-0.419	31	-0.003	24	-1.607	29	-1.078	29
683		2	max	900.372	31	0.992	31	0.441	29	0.003	26	0.548	31	1.365	31
684			min	-242.418	33	-0.003	2	-0.419	31	-0.003	24	-0.587	29	-1.427	29
685		3	max	901.131	31	0.45	31	0.441	29	0.003	26	0.778	31	0.498	31
686			min	-241.963	33	-0.003	2	-0.419	31	-0.003	24	-0.014	2	-1.363	29
687		4	max	901.89	31	-0.003	2	0.441	29	0.003	26	0.595	31	0.043	31
688			min	-241.507	33	-0.455	29	-0.419	31	-0.003	24	-0.007	2	-0.888	29
689		5	max	902.65	31	-0.003	2	0.441	29	0.003	26	0	35	0	35
690			min	-241.052	33	-0.997	29	-0.419	31	-0.003	24	0	1	0	1
691	M70	1	max	900.811	29	1.085	16	0	29	0.007	24	0	35	0	35
692			min	-243.429	35	0	2	0	35	-0.007	26	0	1	0	1
693		2	max	900.051	29	0.542	16	0	29	0.007	24	0.618	16	0	2
694			min	-243.885	35	0	2	0	35	-0.007	26	0	2	-0.618	16
695		3	max	899.292	29	0	35	0	35	0.007	24	0.825	16	0	2
696			min	-244.34	35	0	1	0	1	-0.007	26	0	2	-0.825	16
697		4	max	898.533	29	0	2	0	29	0.007	24	0.618	16	0	2
698			min	-244.796	35	-0.542	29	0	35	-0.007	26	0	2	-0.618	16
699		5	max	897.774	29	0	2	0	29	0.007	24	0	35	0	35
700			min	-245.251	35	-1.085	29	0	35	-0.007	26	0	1	0	1
701	M71	1	max	905.458	29	1.085	30	0	29	0	24	0	35	0	35
702			min	-240.419	35	0	2	0	11	0	26	0	1	0	1
703		2	max	904.699	29	0.542	30	0	29	0	24	0.618	30	0	2
704			min	-240.874	35	0	2	0	11	0	26	0	2	-0.618	30
705		3	max	903.94	29	0	35	0	35	0	24	0.825	30	0	2
706			min	-241.33	35	0	1	0	1	0	26	0	2	-0.825	30
707		4	max	903.18	29	0	2	0	29	0	24	0.618	30	0	2
708			min	-241.785	35	-0.542	16	0	11	0	26	0	2	-0.618	30
709		5	max	902.421	29	0	2	0	29	0	24	0	35	0	35
710			min	-242.241	35	-1.085	16	0	11	0	26	0	1	0	1
711	M72	1	max	895.458	31	0.997	29	0.419	31	0.005	26	0	35	0	35

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
712			min	-245.544	33	0.003	2	-0.441	29	-0.005	24	0	1	0	1
713		2	max	896.217	31	0.455	29	0.419	31	0.005	26	0.595	31	0.043	31
714			min	-245.089	33	0.003	2	-0.441	29	-0.005	24	-0.007	2	-0.888	29
715		3	max	896.976	31	0.003	2	0.419	31	0.005	26	0.778	31	0.498	31
716			min	-244.633	33	-0.45	31	-0.441	29	-0.005	24	-0.014	2	-1.363	29
717		4	max	897.735	31	0.003	2	0.419	31	0.005	26	0.548	31	1.365	31
718			min	-244.178	33	-0.992	31	-0.441	29	-0.005	24	-0.587	29	-1.427	29
719		5	max	898.494	31	0.003	2	0.419	31	0.005	26	-0.027	2	2.644	31
720			min	-243.722	33	-1.535	31	-0.441	29	-0.005	24	-1.607	29	-1.077	29
721	M73	1	max	1008.762	28	1.085	14	0	28	0.002	35	0	35	0	35
722			min	-388.019	34	0	2	0	34	-0.002	25	0	1	0	1
723		2	max	1008.003	28	0.542	14	0	28	0.002	35	0.618	14	0	2
724			min	-388.474	34	0	2	0	34	-0.002	25	0	2	-0.618	14
725		3	max	1007.244	28	0	35	0	35	0.002	35	0.825	14	0	2
726			min	-388.93	34	0	1	0	1	-0.002	25	0	2	-0.825	14
727		4	max	1006.485	28	0	2	0	28	0.002	35	0.618	14	0	2
728			min	-389.385	34	-0.542	24	0	34	-0.002	25	0	2	-0.618	14
729		5	max	1005.726	28	0	2	0	28	0.002	35	0	35	0	35
730			min	-389.841	34	-1.085	24	0	34	-0.002	25	0	1	0	1
731	M74	1	max	1014.943	28	1.085	7	0	28	0	35	0	35	0	35
732			min	-384.97	34	0	2	0	26	0	29	0	1	0	1
733		2	max	1014.184	28	0.542	7	0	28	0	35	0.618	7	0	2
734			min	-385.425	34	0	2	0	26	0	29	0	2	-0.618	7
735		3	max	1013.425	28	0	35	0	35	0	35	0.825	7	0	2
736			min	-385.881	34	0	1	0	1	0	29	0	2	-0.825	7
737		4	max	1012.666	28	0	2	0	28	0	35	0.618	7	0	2
738			min	-386.336	34	-0.542	16	0	26	0	29	0	2	-0.618	7
739		5	max	1011.906	28	0	2	0	28	0	35	0	35	0	35
740			min	-386.792	34	-1.085	16	0	26	0	29	0	1	0	1
741	M75	1	max	1013.118	28	1.085	16	0	16	0	31	0	35	0	35
742			min	-384.963	34	0	2	0	26	0	33	0	1	0	1
743		2	max	1012.359	28	0.542	16	0	16	0	31	0.618	16	0	2
744			min	-385.419	34	0	2	0	26	0	33	0	2	-0.618	3
745		3	max	1011.6	28	0	35	0	35	0	31	0.825	16	0	2
746			min	-385.874	34	0	1	0	1	0	33	0	2	-0.825	3
747		4	max	1010.841	28	0	2	0	16	0	31	0.618	16	0	2
748			min	-386.33	34	-0.542	24	0	26	0	33	0	2	-0.618	3
749		5	max	1010.082	28	0	2	0	16	0	31	0	35	0	35
750			min	-386.785	34	-1.085	24	0	26	0	33	0	1	0	1
751	M76	1	max	1010.838	30	1.119	28	0.64	30	0.001	33	0	35	0	35
752			min	-382.903	32	0.001	2	-0.701	28	-0.002	31	0	1	0	1
753		2	max	1010.079	30	0.576	28	0.64	30	0.001	33	0.687	30	0.286	30
754			min	-383.359	32	-0.008	30	-0.701	28	-0.002	31	-0.007	2	-1.177	28
755		3	max	1009.32	30	0.034	28	0.64	30	0.001	33	0.961	30	0.985	30
756			min	-383.814	32	-0.55	30	-0.701	28	-0.002	31	-0.189	28	-1.942	28
757		4	max	1008.561	30	0.001	2	0.64	30	0.001	33	0.823	30	2.095	30
758			min	-384.27	32	-1.092	30	-0.701	28	-0.002	31	-0.902	28	-2.295	28
759		5	max	1007.802	30	0.001	2	0.64	30	0.001	33	0.273	30	3.618	30
760			min	-384.725	32	-1.634	30	-0.701	28	-0.002	31	-2.028	28	-2.236	28
761	M77	1	max	1008.356	30	1.115	28	0.628	30	0.002	29	0	35	0	35
762			min	-383.859	32	0.002	2	-0.697	28	-0.001	35	0	1	0	1
763		2	max	1007.597	30	0.573	28	0.628	30	0.002	29	0.682	30	0.272	30
764			min	-384.314	32	-0.001	30	-0.697	28	-0.001	35	-0.008	2	-1.171	28
765		3	max	1006.838	30	0.03	28	0.628	30	0.002	29	0.953	30	0.957	30
766			min	-384.77	32	-0.544	30	-0.697	28	-0.001	35	-0.189	28	-1.93	28

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
767		4	max	1006.079	30	0.002	2	0.628	30	0.002	29	0.81	30	2.054	30
768			min	-385.225	32	-1.086	30	-0.697	28	-0.001	35	-0.902	28	-2.277	28
769		5	max	1005.32	30	0.002	2	0.628	30	0.002	29	0.256	30	3.563	30
770			min	-385.681	32	-1.628	30	-0.697	28	-0.001	35	-2.027	28	-2.212	28
771	M78	1	max	1006.785	30	1.634	30	0.701	28	0.001	33	0.274	30	3.618	30
772			min	-385.651	32	-0.001	2	-0.64	30	-0.002	31	-2.027	28	-2.235	28
773		2	max	1006.026	30	1.092	30	0.701	28	0.001	33	0.824	30	2.095	30
774			min	-386.107	32	-0.001	2	-0.64	30	-0.002	31	-0.902	28	-2.295	28
775		3	max	1005.266	30	0.55	30	0.701	28	0.001	33	0.961	30	0.985	30
776			min	-386.562	32	-0.034	28	-0.64	30	-0.002	31	-0.189	28	-1.942	28
777		4	max	1004.507	30	0.008	30	0.701	28	0.001	33	0.687	30	0.286	30
778			min	-387.018	32	-0.576	28	-0.64	30	-0.002	31	-0.007	2	-1.177	28
779		5	max	1003.748	30	-0.001	2	0.701	28	0.001	33	0	35	0	35
780			min	-387.473	32	-1.119	28	-0.64	30	-0.002	31	0	1	0	1
781	M79	1	max	1010.579	28	1.085	12	0	28	0.002	27	0	35	0	35
782			min	-388.026	34	0	2	0	14	-0.002	33	0	1	0	1
783		2	max	1009.82	28	0.542	12	0	28	0.002	27	0.618	30	0	2
784			min	-388.481	34	0	2	0	14	-0.002	33	0	2	-0.618	12
785		3	max	1009.061	28	0	35	0	35	0.002	27	0.825	30	0	2
786			min	-388.937	34	0	1	0	1	-0.002	33	0	2	-0.825	12
787		4	max	1008.302	28	0	2	0	28	0.002	27	0.618	30	0	2
788			min	-389.392	34	-0.542	24	0	14	-0.002	33	0	2	-0.618	12
789		5	max	1007.542	28	0	2	0	28	0.002	27	0	35	0	35
790			min	-389.848	34	-1.085	24	0	14	-0.002	33	0	1	0	1
791	M80	1	max	1004.298	30	1.628	30	0.697	28	0.002	29	0.256	30	3.563	30
792			min	-386.606	32	-0.002	2	-0.628	30	-0.001	35	-2.027	28	-2.212	28
793		2	max	1003.539	30	1.086	30	0.697	28	0.002	29	0.81	30	2.054	30
794			min	-387.062	32	-0.002	2	-0.628	30	-0.001	35	-0.902	28	-2.277	28
795		3	max	1002.78	30	0.544	30	0.697	28	0.002	29	0.952	30	0.957	30
796			min	-387.517	32	-0.03	28	-0.628	30	-0.001	35	-0.189	28	-1.931	28
797		4	max	1002.021	30	0.001	30	0.697	28	0.002	29	0.682	30	0.272	30
798			min	-387.973	32	-0.573	28	-0.628	30	-0.001	35	-0.009	2	-1.171	28
799		5	max	1001.261	30	-0.002	2	0.697	28	0.002	29	0	35	0	35
800			min	-388.428	32	-1.115	28	-0.628	30	-0.001	35	0	1	0	1

Envelope Member End Reactions

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1	M1	I	max	705.044	29	1.085	12	0	30	0.076	8	0	35	0	35
2			min	-236.058	35	0	2	0	27	-0.076	22	0	1	0	1
3		J	max	702.008	29	0	2	0	30	0.076	8	0	35	0	35
4			min	-237.88	35	-1.085	9	0	27	-0.076	22	0	1	0	1
5	M2	I	max	710.069	29	1.085	16	0	30	0.278	10	0	35	0	35
6			min	-233.053	35	0	2	0	23	-0.28	8	0	1	0	1
7		J	max	707.032	29	0	2	0	30	0.278	10	0	35	0	35
8			min	-234.875	35	-1.085	29	0	23	-0.28	8	0	1	0	1
9	M3	I	max	727.031	31	0.89	27	0.129	31	0.046	8	0	35	0	35
10			min	-233.673	33	0	2	-0.172	29	-0.046	10	0	1	0	1
11		J	max	730.067	31	0	2	0.129	31	0.046	8	-0.023	2	1.239	31
12			min	-231.851	33	-1.428	25	-0.172	29	-0.046	10	-1.275	29	-0.02	2
13	M4	I	max	731.348	31	1.428	25	0.173	29	0.162	8	-0.027	2	1.234	31
14			min	-231.006	33	0	2	-0.127	31	-0.161	10	-1.281	29	-0.024	2
15		J	max	734.385	31	0	2	0.173	29	0.162	8	0	35	0	35
16			min	-229.184	33	-0.89	27	-0.127	31	-0.161	10	0	1	0	1
17	M5	I	max	89.003	24	35	35	754.313	5	0.021	35	0	35	0	35
18			min	-87.23	34	-35	25	77.588	20	-0.022	25	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
19		J	max	62.5	27	35	33	-77.588	35	0.021	35	0	35	0	35
20			min	-60.814	33	-35	27	-754.313	3	-0.022	25	0	1	0	1
21	M6	I	max	37.15	33	203.629	8	50.188	22	2.166	30	165.609	16	101.394	8
22			min	-202.707	31	-195.875	22	-475.075	16	-0.097	32	-19.646	22	-97.52	22
23		J	max	37.15	33	203.629	8	49.67	22	2.166	30	5.319	22	0.417	10
24			min	-202.707	31	-195.875	22	-475.937	16	-0.097	32	-72.144	16	-0.42	8
25	M7	I	max	6.263	34	0	35	4.313	25	0.003	33	0	35	0	35
26			min	-104.178	28	0	1	0	2	-0.003	27	0	1	0	1
27		J	max	6.263	34	0	35	0	2	0.003	33	0	35	0	35
28			min	-104.178	28	0	1	-4.313	27	-0.003	27	0	1	0	1
29	M8	I	max	108.416	24	35	35	754.313	5	0.022	25	0	35	0	35
30			min	-107.702	34	-35	25	77.588	20	-0.021	35	0	1	0	1
31		J	max	61.93	27	35	33	-77.588	35	0.022	25	0	35	0	35
32			min	-61.314	33	-35	27	-754.313	3	-0.021	35	0	1	0	1
33	M9	I	max	69.059	35	35	35	754.313	5	0.03	16	0	35	0	35
34			min	-183.666	29	-35	25	77.588	20	-0.002	22	0	1	0	1
35		J	max	69.059	35	35	33	-77.588	35	0.03	16	0	35	0	35
36			min	-183.666	29	-35	27	-754.313	3	-0.002	22	0	1	0	1
37	M10	I	max	63.804	25	35	33	754.312	5	0.021	33	0	35	0	35
38			min	-60.187	35	-35	27	77.588	20	-0.022	27	0	1	0	1
39		J	max	111.549	24	35	35	-77.588	35	0.021	33	0	35	0	35
40			min	-107.902	34	-35	25	-754.313	3	-0.022	27	0	1	0	1
41	M11	I	max	63.698	25	35	33	754.312	5	0.021	27	0	35	0	35
42			min	-60.09	35	-35	27	77.588	20	-0.021	33	0	1	0	1
43		J	max	91.01	24	35	35	-77.588	35	0.021	27	0	35	0	35
44			min	-87.377	34	-35	25	-754.313	3	-0.021	33	0	1	0	1
45	M12	I	max	70.807	33	35	33	754.312	5	0.002	22	0	35	0	35
46			min	-172.807	31	-35	27	77.588	20	-0.031	16	0	1	0	1
47		J	max	70.807	33	35	35	-77.588	35	0.002	22	0	35	0	35
48			min	-172.807	31	-35	25	-754.313	3	-0.031	16	0	1	0	1
49	M13	I	max	82.949	26	35	33	754.313	5	0.078	22	0	35	0	35
50			min	-77.302	32	-35	27	77.588	20	-1.057	16	0	1	0	1
51		J	max	60.854	10	35	35	-77.588	35	0.078	22	0	35	0	35
52			min	-55.124	20	-35	25	-754.313	3	-1.057	16	0	1	0	1
53	M14	I	max	36.692	30	0	35	4.313	31	0.046	27	0	35	0	35
54			min	-9.407	32	0	1	0	2	-0.046	25	0	1	0	1
55		J	max	36.692	30	0	35	0	2	0.046	27	0	35	0	35
56			min	-9.407	32	0	1	-4.313	1	-0.046	25	0	1	0	1
57	M15	I	max	1.279	20	24.036	10	114.183	5	0.043	27	191.056	16	95.477	8
58			min	-73.649	18	-23.693	20	8.442	35	-0.04	33	-24.257	22	-94.04	22
59		J	max	1.279	20	24.393	8	-9.195	33	0.043	27	180.145	16	93.904	8
60			min	-73.649	18	-24.05	22	-119.293	3	-0.04	33	-23.678	22	-94.056	10
61	M16	I	max	35.463	16	0	35	4.313	31	0.046	25	0	35	0	35
62			min	-9.064	22	0	1	0	2	-0.046	27	0	1	0	1
63		J	max	35.463	16	0	35	0	2	0.046	25	0	35	0	35
64			min	-9.064	22	0	1	-4.313	1	-0.046	27	0	1	0	1
65	M17	I	max	38.855	35	198.25	10	408.64	16	0.083	32	0	35	0	35
66			min	-191.824	29	-189.973	20	-43.019	22	-2.196	30	0	1	0	1
67		J	max	38.855	35	192.25	10	407.777	16	0.083	32	204.104	16	93.486	20
68			min	-191.824	29	-183.973	20	-43.536	22	-2.196	30	-21.639	22	-97.625	10
69	M18	I	max	19.109	30	0	35	4.313	31	0.04	25	0	35	0	35
70			min	-9.297	32	0	1	0	2	-0.04	35	0	1	0	1
71		J	max	19.109	30	0	35	0	2	0.04	25	0	35	0	35
72			min	-9.297	32	0	1	-4.313	1	-0.04	35	0	1	0	1
73	M19	I	max	59.338	22	35	35	754.312	5	1.058	16	0	35	0	35

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
74			min	-60.329	8	-35	25	77.588	20	-0.078	22	0	1	0	1
75		J	max	81.786	34	35	33	-77.588	35	1.058	16	0	35	0	35
76			min	-82.829	24	-35	27	-754.312	3	-0.078	22	0	1	0	1
77	M20	I	max	1504.68	5	0	35	0	35	0	35	0	35	0	35
78			min	174.412	20	0	1	0	1	0	1	0	1	0	1
79		J	max	1501.898	5	0	35	0	35	0	35	0	35	0	35
80			min	172.743	20	0	1	0	1	0	1	0	1	0	1
81	M21	I	max	1506.407	5	0	35	0	35	0	35	0	35	0	35
82			min	174.985	20	0	1	0	1	0	1	0	1	0	1
83		J	max	1503.624	5	0	35	0	35	0	35	0	35	0	35
84			min	173.316	20	0	1	0	1	0	1	0	1	0	1
85	M22	I	max	1211.714	28	0.103	27	0.117	35	0	29	0	29	0	35
86			min	-263.302	34	-0.103	25	-0.223	29	0	35	0	35	0	1
87		J	max	1206.15	28	0.103	27	0.117	35	0	29	0.818	35	0.719	25
88			min	-266.64	34	-0.103	25	-0.223	29	0	35	-1.561	29	-0.719	27
89	M23	I	max	1207.439	30	0.139	24	0.141	27	0.002	31	0	33	0	35
90			min	-263.983	32	-0.139	26	-0.14	33	-0.001	33	-0.001	31	0	1
91		J	max	1201.875	30	0.139	24	0.141	27	0.002	31	0.987	27	0.97	26
92			min	-267.321	32	-0.139	26	-0.14	33	-0.001	33	-0.977	33	-0.97	24
93	M24	I	max	872.537	31	0.546	24	5.001	16	0.131	10	0	35	0.093	10
94			min	-150.875	33	-0.53	34	-0.369	22	-0.131	8	0	1	-0.094	8
95		J	max	866.972	31	0.546	24	5.001	16	0.131	10	35.004	16	3.761	34
96			min	-154.214	33	-0.53	34	-0.369	22	-0.131	8	-2.582	22	-3.873	24
97	M25	I	max	1206.279	30	0.14	24	0.14	35	0.001	35	0.001	29	0	35
98			min	-264.455	32	-0.14	26	-0.141	25	-0.002	29	0	35	0	1
99		J	max	1200.715	30	0.14	24	0.14	35	0.001	35	0.976	35	0.978	26
100			min	-267.793	32	-0.14	26	-0.141	25	-0.002	29	-0.989	25	-0.978	24
101	M26	I	max	883.136	29	0.539	24	0.368	22	0.228	8	0	35	0.162	10
102			min	-149.393	35	-0.524	34	-4.995	16	-0.227	10	0	1	-0.163	8
103		J	max	877.572	29	0.539	24	0.368	22	0.228	8	2.576	22	3.75	34
104			min	-152.731	35	-0.524	34	-4.995	16	-0.227	10	-34.963	16	-3.861	24
105	M27	I	max	1533.084	5	0.265	29	0.126	35	0	35	0	35	0	35
106			min	167.999	34	-0.074	35	-0.127	25	0	1	0	1	0	1
107		J	max	1527.52	5	0.265	29	0.126	35	0	35	0.884	35	0.519	35
108			min	164.661	34	-0.074	35	-0.127	25	0	1	-0.887	25	-1.853	29
109	M28	I	max	1533.108	5	0.263	31	0.126	35	0	35	0	35	0	35
110			min	168.012	34	-0.074	33	-0.127	25	0	1	0	1	0	1
111		J	max	1527.544	5	0.263	31	0.126	35	0	35	0.884	35	0.52	33
112			min	164.673	34	-0.074	33	-0.127	25	0	1	-0.886	25	-1.842	31
113	M29	I	max	1120.084	31	0.393	24	0.035	27	0.002	24	0	35	0.001	24
114			min	-149.713	33	-0.395	26	-0.035	25	-0.002	26	0	1	-0.001	26
115		J	max	1114.52	31	0.393	24	0.035	27	0.002	24	0.245	27	2.762	26
116			min	-153.051	33	-0.395	26	-0.035	25	-0.002	26	-0.245	25	-2.747	24
117	M30	I	max	1209.183	28	0.103	25	0.226	31	0	33	0	33	0	35
118			min	-263.243	34	-0.103	27	-0.116	33	0	31	0	31	0	1
119		J	max	1203.619	28	0.103	25	0.226	31	0	33	1.581	31	0.72	27
120			min	-266.582	34	-0.103	27	-0.116	33	0	31	-0.809	33	-0.718	25
121	M31	I	max	1121.686	29	0.392	24	0.035	35	0	26	0	35	0	24
122			min	-149.621	35	-0.393	26	-0.035	25	0	24	0	1	0	26
123		J	max	1116.122	29	0.392	24	0.035	35	0	26	0.244	35	2.753	26
124			min	-152.959	35	-0.393	26	-0.035	25	0	24	-0.246	25	-2.744	24
125	M32	I	max	9.381	22	152.342	18	27.198	27	0.04	35	13.38	33	17.16	20
126			min	-207.691	16	12.967	20	-25.135	33	-0.04	33	-15.562	31	-94.573	18
127		J	max	16.793	35	108.523	5	16.009	31	0.04	35	13.126	31	1.664	20
128			min	-154.092	29	10.118	35	-10.253	33	-0.04	33	-10.131	33	-253.157	18

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
129	M33	I	max	62.373	22	215.794	18	19.69	27	3.731	20	0	35	0	35
130			min	-323.748	16	9.167	20	-19.159	33	-5.129	18	0	1	0	1
131		J	max	60.954	22	159.568	5	5.233	31	3.731	20	16.276	27	-10.446	20
132			min	-263.226	16	6.555	20	-4.277	33	-5.129	18	-15.57	33	-242.895	18
133	M34	I	max	72.331	22	20.528	10	3.758	35	0.047	18	4.582	5	-10.167	20
134			min	-108.677	16	-26.204	2	-9.281	29	-0.029	20	0.046	33	-242.256	18
135		J	max	73.306	10	-10.475	33	9.802	33	0.047	18	3.184	33	5.941	20
136			min	-64.179	20	-60.611	31	-12.751	31	-0.029	20	-5.96	31	-208.767	18
137	M35	I	max	75.971	22	20.574	10	9.288	31	0.026	20	-0.048	35	-10.445	20
138			min	-139.419	16	-25.735	2	-3.756	33	-0.055	18	-4.585	3	-242.893	18
139		J	max	74.552	22	-10.4	35	12.759	29	0.026	20	5.965	29	5.385	20
140			min	-84.612	12	-60.026	29	-9.801	35	-0.055	18	-3.183	35	-210.068	18
141	M36	I	max	160.762	18	-27.577	35	13.496	29	0.011	27	9.962	35	5.386	20
142			min	-60.849	20	-226.321	3	-9.997	35	-0.017	29	-11.459	29	-210.066	18
143		J	max	197.578	18	-32.993	20	26.622	25	0.011	27	14.367	25	144.427	16
144			min	-30.66	20	-265.44	18	-24.879	35	-0.017	29	-13.21	35	-11.684	22
145	M37	I	max	179.753	18	-27.654	33	10.011	33	0.011	27	11.457	31	5.94	20
146			min	-49.162	20	-227	3	-13.494	31	-0.017	29	-9.971	33	-208.769	18
147		J	max	216.569	18	-33.203	20	24.893	33	0.011	27	13.219	33	147.099	16
148			min	-18.973	20	-265.956	18	-26.622	27	-0.017	29	-14.367	27	-11.755	22
149	M38	I	max	321.383	18	-50.155	20	27.553	25	0.101	25	20.129	35	144.428	16
150			min	-15.643	20	-432.999	3	-25.395	35	-0.103	27	-21.562	25	-11.684	22
151		J	max	358.199	18	-52.767	20	42.435	25	0.101	25	24.937	25	726.45	5
152			min	14.547	20	-473.019	18	-40.278	35	-0.103	27	-23.503	35	101.115	35
153	M39	I	max	340.374	18	-50.37	20	25.394	33	0.102	25	21.562	27	147.097	16
154			min	-3.956	20	-433.667	3	-27.553	27	-0.103	27	-20.128	33	-11.755	22
155		J	max	377.189	18	-52.982	20	40.276	33	0.102	25	23.502	33	729.884	5
156			min	26.233	20	-473.529	18	-42.435	27	-0.103	27	-24.937	27	101.518	33
157	M40	I	max	-4.217	22	359.826	18	42.079	27	0.091	25	23.304	33	357.813	5
158			min	-392.019	16	32.741	20	-39.978	33	-0.092	27	-24.701	27	50.649	35
159		J	max	-5.636	22	315.042	5	27.197	27	0.091	25	21.325	27	17.16	20
160			min	-332.59	3	30.13	20	-25.096	33	-0.092	27	-19.93	33	-94.574	18
161	M41	I	max	268.807	5	-32.558	20	4.821	25	0.039	29	17.236	31	12.982	20
162			min	-0.002	35	-362.598	3	-7.626	31	-0.023	35	-15.953	25	-134.735	18
163		J	max	309.69	29	-35.17	20	19.704	25	0.039	29	0.341	25	372.271	5
164			min	14.383	35	-395.298	18	-20.45	27	-0.023	35	-0.347	27	50.77	33
165	M42	I	max	260.154	5	-32.58	20	7.63	29	0.024	33	15.952	27	12.443	20
166			min	-1.271	33	-362.661	3	-4.82	27	-0.036	31	-17.243	29	-136.008	18
167		J	max	301.789	31	-35.191	20	20.451	25	0.024	33	0.347	25	370.708	5
168			min	13.114	33	-395.346	18	-19.702	27	-0.036	31	-0.341	27	50.59	35
169	M43	I	max	40.333	33	-6.6	35	10.124	35	0.015	35	8.745	29	2.232	20
170			min	-43.323	27	-70.545	3	-17.363	29	-0.775	3	-3.421	35	-251.819	18
171		J	max	85.278	29	-9.396	20	3.217	33	0.015	35	0.143	35	12.982	20
172			min	-27.973	35	-121.11	18	-8.48	3	-0.775	3	-6.911	29	-134.736	18
173	M44	I	max	39.045	35	-6.611	33	17.359	31	0.776	5	3.421	33	1.664	20
174			min	-45.447	25	-70.609	3	-10.123	33	-0.015	33	-8.742	31	-253.157	18
175		J	max	77.375	31	-9.418	20	8.483	5	0.776	5	6.909	31	12.443	20
176			min	-29.243	33	-121.16	18	-3.216	35	-0.015	33	-0.143	33	-136.008	18
177	M45	I	max	8.18	22	152.397	18	25.131	35	0.04	35	15.559	29	17.757	20
178			min	-197.895	16	12.989	20	-27.197	25	-0.04	25	-13.378	35	-93.163	18
179		J	max	18.08	33	108.594	5	10.249	35	0.04	35	10.128	35	2.232	20
180			min	-146.209	31	10.128	33	-16.005	29	-0.04	25	-13.123	29	-251.819	18
181	M46	I	max	-5.418	22	359.882	18	39.979	35	0.091	25	24.7	25	359.733	5
182			min	-382.221	16	32.764	20	-42.078	25	-0.092	27	-23.305	35	50.878	33
183		J	max	-6.837	22	315.114	5	25.097	35	0.091	25	19.931	35	17.757	20

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
184			min	-323.929	3	30.152	20	-27.196	25	-0.092	27	-21.325	25	-93.163	18
185	M47	I	max	58.733	22	215.311	18	19.156	35	5.122	18	0	35	0	35
186			min	-293.001	16	8.957	20	-19.69	25	-3.734	20	0	1	0	1
187		J	max	57.313	22	158.944	5	4.274	35	5.122	18	15.566	35	-10.167	20
188			min	-232.479	16	6.345	20	-5.23	29	-3.734	20	-16.275	25	-242.254	18
189	M48	I	max	0.255	33	5.872	27	-25.741	35	0.002	33	13.434	29	11.068	35
190			min	-5.921	3	-5.872	25	-351.297	3	-0.003	27	-9.482	35	-14.537	29
191		J	max	0.255	33	5.872	27	351.296	5	0.002	33	13.432	31	11.07	33
192			min	-5.921	3	-5.872	25	25.74	33	-0.003	27	-9.483	33	-14.534	31
193	M49	I	max	1.667	5	5.628	25	-18.052	33	0.001	35	13.921	31	10.182	33
194			min	0.109	21	-5.628	27	-238.009	3	-0.001	25	-8.942	33	-16.877	31
195		J	max	1.667	5	5.628	25	238.008	5	0.001	35	13.922	29	10.181	35
196			min	0.109	21	-5.628	27	18.053	35	-0.001	25	-8.941	35	-16.875	29
197	M50	I	max	0.008	16	13.074	25	-11.601	33	0.004	27	23.658	31	25.154	33
198			min	-0.039	33	-13.075	27	-238.009	3	-0.004	33	-21.837	33	-27.237	27
199		J	max	0.008	16	13.074	25	238.008	5	0.004	27	23.657	25	25.153	35
200			min	-0.039	33	-13.075	27	11.602	35	-0.004	33	-21.835	35	-27.235	25
201	M51	I	max	42.766	16	0.144	27	-22.786	20	0.007	27	5.913	5	-0.404	35
202			min	-20.049	22	-0.168	25	-237.954	3	-0.007	33	0.53	20	-6.924	3
203		J	max	42.766	16	0.144	27	238.063	5	0.007	27	6.132	5	-0.375	33
204			min	-20.049	22	-0.168	25	22.802	22	-0.007	33	0.581	22	-6.728	3
205	M52	I	max	0.065	29	13.013	27	-11.585	35	0.013	27	23.573	25	25.164	35
206			min	-0.074	31	-13.013	25	-238.008	3	-0.012	33	-21.869	35	-27.115	25
207		J	max	0.065	29	13.013	27	238.009	5	0.013	27	23.574	27	25.171	33
208			min	-0.074	31	-13.013	25	11.583	33	-0.012	33	-21.874	33	-27.114	27
209	M53	I	max	0.247	25	5.279	35	-18.196	35	0.017	27	11.447	29	9.898	35
210			min	-0.107	18	-5.283	33	-238.009	3	-0.016	33	-8.649	35	-13.136	29
211		J	max	0.247	25	5.279	35	238.008	5	0.017	27	11.444	31	9.906	33
212			min	-0.107	18	-5.283	33	18.192	33	-0.016	33	-8.655	33	-13.13	31
213	M54	I	max	5.131	5	5.891	25	-17.775	33	0.019	27	10.439	27	10.916	33
214			min	0.461	20	-5.892	27	-238.01	3	-0.018	33	-9.899	33	-14.94	31
215		J	max	5.131	5	5.891	25	238.007	5	0.019	27	10.438	25	10.912	35
216			min	0.461	20	-5.892	27	17.775	35	-0.018	33	-9.901	27	-14.933	29
217	M55	I	max	509.142	31	1.085	27	0	21	0	35	0	35	0	35
218			min	-144.031	33	0	2	0	16	0	29	0	1	0	1
219		J	max	512.179	31	0	2	0	21	0	35	0	35	0	35
220			min	-142.209	33	-1.085	13	0	16	0	29	0	1	0	1
221	M56	I	max	510.761	29	1.422	27	0.014	31	0	35	-0.01	2	1.026	27
222			min	-144.504	35	0.002	2	-0.028	29	-0.001	29	-1.026	27	0	2
223		J	max	507.725	29	0.002	2	0.014	31	0	35	0	35	0	35
224			min	-146.326	35	-0.87	25	-0.028	29	-0.001	29	0	1	0	1
225	M57	I	max	515.142	29	0.87	25	0.028	29	0	35	0	35	0	35
226			min	-141.872	35	-0.002	2	-0.014	31	-0.001	29	0	1	0	1
227		J	max	512.105	29	-0.002	2	0.028	29	0	35	-0.009	2	1.026	27
228			min	-143.694	35	-1.422	27	-0.014	31	-0.001	29	-1.026	27	0.001	2
229	M58	I	max	503.93	31	1.085	27	0	33	0.002	18	0	35	0	35
230			min	-147.041	33	0	2	0	17	0	20	0	1	0	1
231		J	max	506.967	31	0	2	0	33	0.002	18	0	35	0	35
232			min	-145.219	33	-1.085	12	0	17	0	20	0	1	0	1
233	M59	I	max	47.536	24	35	35	754.313	5	0.014	25	0	35	0	35
234			min	-44.66	34	-35	25	77.588	20	-0.014	35	0	1	0	1
235		J	max	40.57	27	35	33	-77.588	35	0.014	25	0	35	0	35
236			min	-37.703	33	-35	27	-754.313	3	-0.014	35	0	1	0	1
237	M60	I	max	12.946	30	0	35	4.313	31	0.039	35	0	35	0	35
238			min	-3.62	32	0	1	0	2	-0.039	25	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
239		J	max	12.946	30	0	35	0	2	0.039	35	0	35	0	35
240			min	-3.62	32	0	1	-4.313	1	-0.039	25	0	1	0	1
241	M61	I	max	82.78	35	35	35	754.313	5	0	27	0	35	0	35
242			min	-84.115	25	-35	25	77.588	20	0	25	0	1	0	1
243		J	max	82.78	35	35	33	-77.588	35	0	27	0	35	0	35
244			min	-84.115	25	-35	27	-754.313	3	0	25	0	1	0	1
245	M62	I	max	83.214	33	35	33	754.312	5	0	27	0	35	0	35
246			min	-83.394	27	-35	27	77.588	20	0	33	0	1	0	1
247		J	max	83.214	33	35	35	-77.588	35	0	27	0	35	0	35
248			min	-83.394	27	-35	25	-754.313	3	0	33	0	1	0	1
249	M63	I	max	40.812	25	35	33	754.313	5	0.014	33	0	35	0	35
250			min	-37.561	35	-35	27	77.588	20	-0.014	27	0	1	0	1
251		J	max	47.938	24	35	35	-77.588	35	0.014	33	0	35	0	35
252			min	-44.689	34	-35	25	-754.313	3	-0.014	27	0	1	0	1
253	M64	I	max	-10.351	22	30	20	66.813	31	0.012	25	0	35	0	35
254			min	-82.182	3	-30	10	0	2	-0.012	27	0	1	0	1
255		J	max	-10.351	22	30	22	0	2	0.012	25	0	35	0	35
256			min	-82.182	3	-30	8	-66.813	1	-0.012	27	0	1	0	1
257	M65	I	max	629.559	31	0.029	33	0.022	27	0	29	0	35	0	29
258			min	-82.515	33	-0.199	31	-0.022	33	0	35	0	1	0	35
259		J	max	623.995	31	0.029	33	0.022	27	0	29	0.153	27	1.396	31
260			min	-85.854	33	-0.199	31	-0.022	33	0	35	-0.152	33	-0.201	33
261	M66	I	max	632.791	29	0.029	35	0.022	35	0	29	0	35	0	35
262			min	-81.803	35	-0.2	29	-0.022	25	0	35	0	1	0	29
263		J	max	627.227	29	0.029	35	0.022	35	0	29	0.152	35	1.399	29
264			min	-85.141	35	-0.2	29	-0.022	25	0	35	-0.153	25	-0.201	35
265	M67	I	max	1533.398	5	0.37	32	0.11	35	0	35	0	35	0	35
266			min	169.233	32	-0.492	30	-0.11	25	0	1	0	1	0	1
267		J	max	1527.833	5	0.37	32	0.11	35	0	35	0.77	35	3.446	30
268			min	165.895	32	-0.492	30	-0.11	25	0	1	-0.773	25	-2.592	32
269	M68	I	max	1533.392	5	0.37	32	0.11	35	0	35	0	35	0	35
270			min	169.241	32	-0.49	30	-0.11	25	0	1	0	1	0	1
271		J	max	1527.828	5	0.37	32	0.11	35	0	35	0.77	35	3.43	30
272			min	165.903	32	-0.49	30	-0.11	25	0	1	-0.772	25	-2.589	32
273	M69	I	max	899.613	31	1.535	31	0.441	29	0.003	26	-0.027	2	2.644	31
274			min	-242.874	33	-0.003	2	-0.419	31	-0.003	24	-1.607	29	-1.078	29
275		J	max	902.65	31	-0.003	2	0.441	29	0.003	26	0	35	0	35
276			min	-241.052	33	-0.997	29	-0.419	31	-0.003	24	0	1	0	1
277	M70	I	max	900.811	29	1.085	16	0	29	0.007	24	0	35	0	35
278			min	-243.429	35	0	2	0	35	-0.007	26	0	1	0	1
279		J	max	897.774	29	0	2	0	29	0.007	24	0	35	0	35
280			min	-245.251	35	-1.085	29	0	35	-0.007	26	0	1	0	1
281	M71	I	max	905.458	29	1.085	30	0	29	0	24	0	35	0	35
282			min	-240.419	35	0	2	0	11	0	26	0	1	0	1
283		J	max	902.421	29	0	2	0	29	0	24	0	35	0	35
284			min	-242.241	35	-1.085	16	0	11	0	26	0	1	0	1
285	M72	I	max	895.458	31	0.997	29	0.419	31	0.005	26	0	35	0	35
286			min	-245.544	33	0.003	2	-0.441	29	-0.005	24	0	1	0	1
287		J	max	898.494	31	0.003	2	0.419	31	0.005	26	-0.027	2	2.644	31
288			min	-243.722	33	-1.535	31	-0.441	29	-0.005	24	-1.607	29	-1.077	29
289	M73	I	max	1008.762	28	1.085	14	0	28	0.002	35	0	35	0	35
290			min	-388.019	34	0	2	0	34	-0.002	25	0	1	0	1
291		J	max	1005.726	28	0	2	0	28	0.002	35	0	35	0	35
292			min	-389.841	34	-1.085	24	0	34	-0.002	25	0	1	0	1
293	M74	I	max	1014.943	28	1.085	7	0	28	0	35	0	35	0	35

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
294			min	-384.97	34	0	2	0	26	0	29	0	1	0	1
295		J	max	1011.906	28	0	2	0	28	0	35	0	35	0	35
296			min	-386.792	34	-1.085	16	0	26	0	29	0	1	0	1
297	M75	I	max	1013.118	28	1.085	16	0	16	0	31	0	35	0	35
298			min	-384.963	34	0	2	0	26	0	33	0	1	0	1
299		J	max	1010.082	28	0	2	0	16	0	31	0	35	0	35
300			min	-386.785	34	-1.085	24	0	26	0	33	0	1	0	1
301	M76	I	max	1010.838	30	1.119	28	0.64	30	0.001	33	0	35	0	35
302			min	-382.903	32	0.001	2	-0.701	28	-0.002	31	0	1	0	1
303		J	max	1007.802	30	0.001	2	0.64	30	0.001	33	0.273	30	3.618	30
304			min	-384.725	32	-1.634	30	-0.701	28	-0.002	31	-2.028	28	-2.236	28
305	M77	I	max	1008.356	30	1.115	28	0.628	30	0.002	29	0	35	0	35
306			min	-383.859	32	0.002	2	-0.697	28	-0.001	35	0	1	0	1
307		J	max	1005.32	30	0.002	2	0.628	30	0.002	29	0.256	30	3.563	30
308			min	-385.681	32	-1.628	30	-0.697	28	-0.001	35	-2.027	28	-2.212	28
309	M78	I	max	1006.785	30	1.634	30	0.701	28	0.001	33	0.274	30	3.618	30
310			min	-385.651	32	-0.001	2	-0.64	30	-0.002	31	-2.027	28	-2.235	28
311		J	max	1003.748	30	-0.001	2	0.701	28	0.001	33	0	35	0	35
312			min	-387.473	32	-1.119	28	-0.64	30	-0.002	31	0	1	0	1
313	M79	I	max	1010.579	28	1.085	12	0	28	0.002	27	0	35	0	35
314			min	-388.026	34	0	2	0	14	-0.002	33	0	1	0	1
315		J	max	1007.542	28	0	2	0	28	0.002	27	0	35	0	35
316			min	-389.848	34	-1.085	24	0	14	-0.002	33	0	1	0	1
317	M80	I	max	1004.298	30	1.628	30	0.697	28	0.002	29	0.256	30	3.563	30
318			min	-386.606	32	-0.002	2	-0.628	30	-0.001	35	-2.027	28	-2.212	28
319		J	max	1001.261	30	-0.002	2	0.697	28	0.002	29	0	35	0	35
320			min	-388.428	32	-1.115	28	-0.628	30	-0.001	35	0	1	0	1

Envelope Member Section Stresses

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1	M1	1	max	0.975	29	0.003	12	0	35	0	35	0	35	0	35	0	35
2			min	-0.326	35	0	2	0	1	0	1	0	1	0	1	0	1
3		2	max	0.974	29	0.002	12	0	35	0.023	12	0	2	0.048	12	0	2
4			min	-0.327	35	0	2	0	1	0	2	-0.023	12	0	2	-0.056	12
5		3	max	0.973	29	0	35	0	35	0.031	12	0	2	0.065	12	0	2
6			min	-0.328	35	0	1	0	1	0	2	-0.031	12	0	2	-0.074	12
7		4	max	0.972	29	0	2	0	35	0.023	12	0	2	0.048	12	0	2
8			min	-0.328	35	-0.002	9	0	1	0	2	-0.023	12	0	2	-0.056	12
9		5	max	0.971	29	0	2	0	35	0	35	0	35	0	35	0	35
10			min	-0.329	35	-0.003	9	0	1	0	1	0	1	0	1	0	1
11	M2	1	max	0.982	29	0.003	16	0	35	0	35	0	35	0	35	0	35
12			min	-0.322	35	0	2	0	1	0	1	0	1	0	1	0	1
13		2	max	0.981	29	0.002	16	0	35	0.023	16	0	2	0.048	30	0	2
14			min	-0.323	35	0	2	0	1	0	2	-0.023	16	0	2	-0.056	7
15		3	max	0.98	29	0	35	0	35	0.031	16	0	2	0.065	30	0	2
16			min	-0.324	35	0	1	0	1	0	2	-0.031	16	0	2	-0.074	7
17		4	max	0.979	29	0	2	0	35	0.023	16	0	2	0.048	30	0	2
18			min	-0.324	35	-0.002	29	0	1	0	2	-0.023	16	0	2	-0.056	7
19		5	max	0.978	29	0	2	0	35	0	35	0	35	0	35	0	35
20			min	-0.325	35	-0.003	29	0	1	0	1	0	1	0	1	0	1
21	M3	1	max	1.006	31	0.003	27	0	31	0	35	0	35	0	35	0	35
22			min	-0.323	33	0	2	-0.001	29	0	1	0	1	0	1	0	1
23		2	max	1.007	31	0.001	27	0	31	0.021	29	0	2	0.04	31	0.001	2
24			min	-0.323	33	0	2	-0.001	29	0	2	-0.021	29	0	2	-0.045	31
25		3	max	1.008	31	0	2	0	31	0.027	29	0	2	0.047	31	0.001	2

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
26			min	-0.322	33	-0.001	25	-0.001	29	0	2	-0.027	29	-0.001	2	-0.054	31
27		4	max	1.009	31	0	2	0	31	0.017	29	0.012	31	0.022	31	0.03	29
28			min	-0.321	33	-0.003	25	-0.001	29	-0.012	31	-0.017	29	-0.026	29	-0.025	31
29		5	max	1.01	31	0	2	0	31	0.001	2	0.047	31	-0.002	2	0.115	29
30			min	-0.321	33	-0.005	25	-0.001	29	-0.047	31	-0.001	2	-0.1	29	0.002	2
31	M4	1	max	1.012	31	0.005	25	0.001	29	0.001	2	0.046	31	-0.002	2	0.115	29
32			min	-0.32	33	0	2	0	31	-0.046	31	-0.001	2	-0.1	29	0.002	2
33		2	max	1.013	31	0.003	25	0.001	29	0.017	29	0.012	31	0.021	31	0.031	29
34			min	-0.319	33	0	2	0	31	-0.012	31	-0.017	29	-0.027	29	-0.025	31
35		3	max	1.014	31	0.001	25	0.001	29	0.027	29	0	2	0.047	31	0.001	2
36			min	-0.318	33	0	2	0	31	0	2	-0.027	29	-0.001	2	-0.054	31
37		4	max	1.015	31	0	2	0.001	29	0.021	29	0	2	0.039	31	0.001	2
38			min	-0.318	33	-0.001	27	0	31	0	2	-0.021	29	-0.001	2	-0.045	31
39		5	max	1.016	31	0	2	0.001	29	0	35	0	35	0	35	0	35
40			min	-0.317	33	-0.003	27	0	31	0	1	0	1	0	1	0	1
41	M5	1	max	0.062	24	0.084	35	0.905	5	0	35	0	35	0	35	0	35
42			min	-0.061	34	-0.084	25	0.093	20	0	1	0	1	0	1	0	1
43		2	max	0.05	24	0.042	35	0.453	5	0.401	35	1.468	33	12.707	5	-1.307	35
44			min	-0.049	34	-0.042	25	0.047	20	-0.401	25	-1.468	27	1.307	20	-12.707	3
45		3	max	0.043	27	0	35	0	35	0.535	35	1.958	33	16.943	5	-1.743	35
46			min	-0.042	33	0	1	0	1	-0.535	25	-1.958	27	1.743	20	-16.943	3
47		4	max	0.043	27	0.042	33	-0.047	35	0.401	35	1.468	33	12.707	5	-1.307	35
48			min	-0.042	33	-0.042	27	-0.453	3	-0.401	25	-1.468	27	1.307	20	-12.707	3
49		5	max	0.043	27	0.084	33	-0.093	35	0	35	0	35	0	35	0	35
50			min	-0.042	33	-0.084	27	-0.905	3	0	1	0	1	0	1	0	1
51	M6	1	max	0.026	33	0.489	8	0.06	22	1.193	22	4.537	8	2.976	16	0.353	22
52			min	-0.141	31	-0.47	22	-0.57	16	-1.24	8	-4.364	22	-0.353	22	-2.976	16
53		2	max	0.026	33	0.489	8	0.06	22	0.893	22	3.398	8	1.909	16	0.24	22
54			min	-0.141	31	-0.47	22	-0.57	16	-0.929	8	-3.268	22	-0.24	22	-1.909	16
55		3	max	0.026	33	0.489	8	0.06	22	0.594	22	2.259	8	0.841	16	0.128	22
56			min	-0.141	31	-0.47	22	-0.571	16	-0.618	8	-2.173	22	-0.128	22	-0.841	16
57		4	max	0.026	33	0.489	8	0.06	22	0.294	22	1.12	8	-0.016	22	0.288	5
58			min	-0.141	31	-0.47	22	-0.571	16	-0.306	8	-1.077	22	-0.288	3	0.016	22
59		5	max	0.026	33	0.489	8	0.06	22	0.005	8	0.019	10	0.096	22	1.296	16
60			min	-0.141	31	-0.47	22	-0.571	16	-0.005	10	-0.019	8	-1.296	16	-0.096	22
61	M7	1	max	0.004	34	0	35	0.005	25	0	35	0	35	0	35	0	35
62			min	-0.072	28	0	1	0	2	0	1	0	1	0	1	0	1
63		2	max	0.004	34	0	35	0.003	25	0	35	0	35	0.073	25	0	2
64			min	-0.072	28	0	1	0	2	0	1	0	1	0	2	-0.073	25
65		3	max	0.004	34	0	35	0	35	0	35	0	35	0.097	25	0	2
66			min	-0.072	28	0	1	0	1	0	1	0	1	0	2	-0.097	25
67		4	max	0.004	34	0	35	0	2	0	35	0	35	0.073	25	0	2
68			min	-0.072	28	0	1	-0.003	27	0	1	0	1	0	2	-0.073	25
69		5	max	0.004	34	0	35	0	2	0	35	0	35	0	35	0	35
70			min	-0.072	28	0	1	-0.005	27	0	1	0	1	0	1	0	1
71	M8	1	max	0.075	24	0.084	35	0.905	5	0	35	0	35	0	35	0	35
72			min	-0.075	34	-0.084	25	0.093	20	0	1	0	1	0	1	0	1
73		2	max	0.063	24	0.042	35	0.453	5	0.401	35	1.468	33	12.707	5	-1.307	35
74			min	-0.063	34	-0.042	25	0.047	20	-0.401	25	-1.468	27	1.307	20	-12.707	3
75		3	max	0.051	24	0	35	0	35	0.535	35	1.958	33	16.943	5	-1.743	35
76			min	-0.051	34	0	1	0	1	-0.535	25	-1.958	27	1.743	20	-16.943	3
77		4	max	0.043	27	0.042	33	-0.047	35	0.401	35	1.468	33	12.707	5	-1.307	35
78			min	-0.043	33	-0.042	27	-0.453	3	-0.401	25	-1.468	27	1.307	20	-12.707	3
79		5	max	0.043	27	0.084	33	-0.093	35	0	35	0	35	0	35	0	35
80			min	-0.043	33	-0.084	27	-0.905	3	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
81	M9	1	max	0.048	35	0.084	35	0.905	5	0	35	0	35	0	35	0	35
82			min	-0.128	29	-0.084	25	0.093	20	0	1	0	1	0	1	0	1
83		2	max	0.048	35	0.042	35	0.453	5	0.401	35	1.468	33	12.707	5	-1.307	35
84			min	-0.128	29	-0.042	25	0.047	20	-0.401	25	-1.468	27	1.307	20	-12.707	3
85		3	max	0.048	35	0	35	0	35	0.535	35	1.958	33	16.943	5	-1.743	35
86			min	-0.128	29	0	1	0	1	-0.535	25	-1.958	27	1.743	20	-16.943	3
87		4	max	0.048	35	0.042	33	-0.047	35	0.401	35	1.468	33	12.707	5	-1.307	35
88			min	-0.128	29	-0.042	27	-0.453	3	-0.401	25	-1.468	27	1.307	20	-12.707	3
89		5	max	0.048	35	0.084	33	-0.093	35	0	35	0	35	0	35	0	35
90			min	-0.128	29	-0.084	27	-0.905	3	0	1	0	1	0	1	0	1
91	M10	1	max	0.044	25	0.084	33	0.905	5	0	35	0	35	0	35	0	35
92			min	-0.042	35	-0.084	27	0.093	20	0	1	0	1	0	1	0	1
93		2	max	0.044	25	0.042	33	0.453	5	0.401	33	1.468	35	12.707	5	-1.307	35
94			min	-0.042	35	-0.042	27	0.047	20	-0.401	27	-1.468	25	1.307	20	-12.707	3
95		3	max	0.053	24	0	35	0	35	0.535	33	1.958	35	16.943	5	-1.743	35
96			min	-0.051	34	0	1	0	1	-0.535	27	-1.958	25	1.743	20	-16.943	3
97		4	max	0.065	24	0.042	35	-0.047	35	0.401	33	1.468	35	12.707	5	-1.307	35
98			min	-0.063	34	-0.042	25	-0.453	3	-0.401	27	-1.468	25	1.307	20	-12.707	3
99		5	max	0.078	24	0.084	35	-0.093	35	0	35	0	35	0	35	0	35
100			min	-0.075	34	-0.084	25	-0.905	3	0	1	0	1	0	1	0	1
101	M11	1	max	0.044	25	0.084	33	0.905	5	0	35	0	35	0	35	0	35
102			min	-0.042	35	-0.084	27	0.093	20	0	1	0	1	0	1	0	1
103		2	max	0.044	25	0.042	33	0.453	5	0.401	33	1.468	35	12.707	5	-1.307	35
104			min	-0.042	35	-0.042	27	0.047	20	-0.401	27	-1.468	25	1.307	20	-12.707	3
105		3	max	0.044	25	0	35	0	35	0.535	33	1.958	35	16.943	5	-1.743	35
106			min	-0.042	35	0	1	0	1	-0.535	27	-1.958	25	1.743	20	-16.943	3
107		4	max	0.051	24	0.042	35	-0.047	35	0.401	33	1.468	35	12.707	5	-1.307	35
108			min	-0.049	34	-0.042	25	-0.453	3	-0.401	27	-1.468	25	1.307	20	-12.707	3
109		5	max	0.063	24	0.084	35	-0.093	35	0	35	0	35	0	35	0	35
110			min	-0.061	34	-0.084	25	-0.905	3	0	1	0	1	0	1	0	1
111	M12	1	max	0.049	33	0.084	33	0.905	5	0	35	0	35	0	35	0	35
112			min	-0.12	31	-0.084	27	0.093	20	0	1	0	1	0	1	0	1
113		2	max	0.049	33	0.042	33	0.453	5	0.401	33	1.468	35	12.707	5	-1.307	35
114			min	-0.12	31	-0.042	27	0.047	20	-0.401	27	-1.468	25	1.307	20	-12.707	3
115		3	max	0.049	33	0	35	0	35	0.535	33	1.958	35	16.943	5	-1.743	35
116			min	-0.12	31	0	1	0	1	-0.535	27	-1.958	25	1.743	20	-16.943	3
117		4	max	0.049	33	0.042	35	-0.047	35	0.401	33	1.468	35	12.707	5	-1.307	35
118			min	-0.12	31	-0.042	25	-0.453	3	-0.401	27	-1.468	25	1.307	20	-12.707	3
119		5	max	0.049	33	0.084	35	-0.093	35	0	35	0	35	0	35	0	35
120			min	-0.12	31	-0.084	25	-0.905	3	0	1	0	1	0	1	0	1
121	M13	1	max	0.058	26	0.084	33	0.905	5	0	35	0	35	0	35	0	35
122			min	-0.054	32	-0.084	27	0.093	20	0	1	0	1	0	1	0	1
123		2	max	0.046	26	0.042	33	0.453	5	0.401	33	1.468	35	12.707	5	-1.307	35
124			min	-0.042	32	-0.042	27	0.047	20	-0.401	27	-1.468	25	1.307	20	-12.707	3
125		3	max	0.042	10	0	35	0	35	0.535	33	1.958	35	16.943	5	-1.743	35
126			min	-0.038	20	0	1	0	1	-0.535	27	-1.958	25	1.743	20	-16.943	3
127		4	max	0.042	10	0.042	35	-0.047	35	0.401	33	1.468	35	12.707	5	-1.307	35
128			min	-0.038	20	-0.042	25	-0.453	3	-0.401	27	-1.468	25	1.307	20	-12.707	3
129		5	max	0.042	10	0.084	35	-0.093	35	0	35	0	35	0	35	0	35
130			min	-0.038	20	-0.084	25	-0.905	3	0	1	0	1	0	1	0	1
131	M14	1	max	0.026	30	0	35	0.005	31	0	35	0	35	0	35	0	35
132			min	-0.007	32	0	1	0	2	0	1	0	1	0	1	0	1
133		2	max	0.026	30	0	35	0.003	31	0	35	0	35	0.073	31	0	2
134			min	-0.007	32	0	1	0	2	0	1	0	1	0	2	-0.073	1
135		3	max	0.026	30	0	35	0	35	0	35	0	35	0.097	31	0	2

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
136			min	-0.007	32	0	1	0	1	0	1	0	1	0	2	-0.097	1
137		4	max	0.026	30	0	35	0	2	0	35	0	35	0.073	31	0	2
138			min	-0.007	32	0	1	-0.003	1	0	1	0	1	0	2	-0.073	1
139		5	max	0.026	30	0	35	0	2	0	35	0	35	0	35	0	35
140			min	-0.007	32	0	1	-0.005	1	0	1	0	1	0	1	0	1
141	M15	1	max	0.001	20	0.058	10	0.137	5	1.15	22	4.272	8	3.433	16	0.436	22
142			min	-0.051	18	-0.057	20	0.01	35	-1.168	8	-4.208	22	-0.436	22	-3.433	16
143		2	max	0.001	20	0.029	10	0.067	5	1.37	22	5.06	8	4.62	16	0.298	22
144			min	-0.051	18	-0.028	20	0.004	35	-1.383	8	-5.011	22	-0.298	22	-4.62	16
145		3	max	0.001	20	0.003	31	0.001	33	1.443	10	5.311	8	4.984	16	0.25	22
146			min	-0.051	18	-0.001	33	-0.004	31	-1.452	8	-5.279	10	-0.25	22	-4.984	16
147		4	max	0.001	20	0.03	8	-0.005	33	1.37	10	5.025	8	4.522	16	0.293	22
148			min	-0.051	18	-0.029	22	-0.073	3	-1.374	8	-5.013	10	-0.293	22	-4.522	16
149		5	max	0.001	20	0.059	8	-0.011	33	1.15	10	4.202	8	3.237	16	0.425	22
150			min	-0.051	18	-0.058	22	-0.143	3	-1.149	8	-4.209	10	-0.425	22	-3.237	16
151	M16	1	max	0.025	16	0	35	0.005	31	0	35	0	35	0	35	0	35
152			min	-0.006	22	0	1	0	2	0	1	0	1	0	1	0	1
153		2	max	0.025	16	0	35	0.003	31	0	35	0	35	0.073	31	0	2
154			min	-0.006	22	0	1	0	2	0	1	0	1	0	2	-0.073	1
155		3	max	0.025	16	0	35	0	35	0	35	0	35	0.097	31	0	2
156			min	-0.006	22	0	1	0	1	0	1	0	1	0	2	-0.097	1
157		4	max	0.025	16	0	35	0	2	0	35	0	35	0.073	31	0	2
158			min	-0.006	22	0	1	-0.003	1	0	1	0	1	0	2	-0.073	1
159		5	max	0.025	16	0	35	0	2	0	35	0	35	0	35	0	35
160			min	-0.006	22	0	1	-0.005	1	0	1	0	1	0	1	0	1
161	M17	1	max	0.027	35	0.476	10	0.49	16	0	35	0	35	0	35	0	35
162			min	-0.133	29	-0.456	20	-0.052	22	0	1	0	1	0	1	0	1
163		2	max	0.027	35	0.472	10	0.49	16	0.302	10	1.058	20	0.918	16	0.097	22
164			min	-0.133	29	-0.452	20	-0.052	22	-0.289	20	-1.105	10	-0.097	22	-0.918	16
165		3	max	0.027	35	0.469	10	0.49	16	0.602	10	2.108	20	1.835	16	0.194	22
166			min	-0.133	29	-0.449	20	-0.052	22	-0.576	20	-2.201	10	-0.194	22	-1.835	16
167		4	max	0.027	35	0.465	10	0.49	16	0.899	10	3.15	20	2.751	16	0.291	22
168			min	-0.133	29	-0.445	20	-0.052	22	-0.861	20	-3.289	10	-0.291	22	-2.751	16
169		5	max	0.027	35	0.461	10	0.489	16	1.194	10	4.183	20	3.668	16	0.389	22
170			min	-0.133	29	-0.442	20	-0.052	22	-1.144	20	-4.368	10	-0.389	22	-3.668	16
171	M18	1	max	0.013	30	0	35	0.005	31	0	35	0	35	0	35	0	35
172			min	-0.006	32	0	1	0	2	0	1	0	1	0	1	0	1
173		2	max	0.013	30	0	35	0.003	31	0	35	0	35	0.073	31	0	2
174			min	-0.006	32	0	1	0	2	0	1	0	1	0	2	-0.073	1
175		3	max	0.013	30	0	35	0	35	0	35	0	35	0.097	31	0	2
176			min	-0.006	32	0	1	0	1	0	1	0	1	0	2	-0.097	1
177		4	max	0.013	30	0	35	0	2	0	35	0	35	0.073	31	0	2
178			min	-0.006	32	0	1	-0.003	1	0	1	0	1	0	2	-0.073	1
179		5	max	0.013	30	0	35	0	2	0	35	0	35	0	35	0	35
180			min	-0.006	32	0	1	-0.005	1	0	1	0	1	0	1	0	1
181	M19	1	max	0.041	22	0.084	35	0.905	5	0	35	0	35	0	35	0	35
182			min	-0.042	8	-0.084	25	0.093	20	0	1	0	1	0	1	0	1
183		2	max	0.041	22	0.042	35	0.453	5	0.401	35	1.468	33	12.707	5	-1.307	35
184			min	-0.042	8	-0.042	25	0.047	20	-0.401	25	-1.468	27	1.307	20	-12.707	3
185		3	max	0.041	22	0	35	0	35	0.535	35	1.958	33	16.943	5	-1.743	35
186			min	-0.042	8	0	1	0	1	-0.535	25	-1.958	27	1.743	20	-16.943	3
187		4	max	0.045	34	0.042	33	-0.047	35	0.401	35	1.468	33	12.707	5	-1.307	35
188			min	-0.045	24	-0.042	27	-0.453	3	-0.401	25	-1.468	27	1.307	20	-12.707	3
189		5	max	0.057	34	0.084	33	-0.093	35	0	35	0	35	0	35	0	35
190			min	-0.058	24	-0.084	27	-0.905	3	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
191	M20	1	max	2.272	5	0	35	0	35	0	35	0	35	0	35	0	35
192			min	0.263	20	0	1	0	1	0	1	0	1	0	1	0	1
193		2	max	2.271	5	0	35	0	35	0	35	0	35	0	35	0	35
194			min	0.263	20	0	1	0	1	0	1	0	1	0	1	0	1
195		3	max	2.269	5	0	35	0	35	0	35	0	35	0	35	0	35
196			min	0.262	20	0	1	0	1	0	1	0	1	0	1	0	1
197		4	max	2.268	5	0	35	0	35	0	35	0	35	0	35	0	35
198			min	0.261	20	0	1	0	1	0	1	0	1	0	1	0	1
199		5	max	2.267	5	0	35	0	35	0	35	0	35	0	35	0	35
200			min	0.261	20	0	1	0	1	0	1	0	1	0	1	0	1
201	M21	1	max	2.274	5	0	35	0	35	0	35	0	35	0	35	0	35
202			min	0.264	20	0	1	0	1	0	1	0	1	0	1	0	1
203		2	max	2.273	5	0	35	0	35	0	35	0	35	0	35	0	35
204			min	0.264	20	0	1	0	1	0	1	0	1	0	1	0	1
205		3	max	2.272	5	0	35	0	35	0	35	0	35	0	35	0	35
206			min	0.263	20	0	1	0	1	0	1	0	1	0	1	0	1
207		4	max	2.271	5	0	35	0	35	0	35	0	35	0	35	0	35
208			min	0.262	20	0	1	0	1	0	1	0	1	0	1	0	1
209		5	max	2.27	5	0	35	0	35	0	35	0	35	0	35	0	35
210			min	0.262	20	0	1	0	1	0	1	0	1	0	1	0	1
211	M22	1	max	1.829	28	0	27	0	35	0	35	0	35	0	29	0	35
212			min	-0.397	34	0	25	-0.001	29	0	1	0	1	0	35	0	29
213		2	max	1.827	28	0	27	0	35	0.008	27	0.008	25	0.009	35	0.017	29
214			min	-0.399	34	0	25	-0.001	29	-0.008	25	-0.008	27	-0.017	29	-0.009	35
215		3	max	1.825	28	0	27	0	35	0.015	27	0.015	25	0.017	35	0.033	29
216			min	-0.4	34	0	25	-0.001	29	-0.015	25	-0.015	27	-0.033	29	-0.017	35
217		4	max	1.823	28	0	27	0	35	0.023	27	0.023	25	0.026	35	0.05	29
218			min	-0.401	34	0	25	-0.001	29	-0.023	25	-0.023	27	-0.05	29	-0.026	35
219		5	max	1.821	28	0	27	0	35	0.031	27	0.031	25	0.035	35	0.066	29
220			min	-0.403	34	0	25	-0.001	29	-0.031	25	-0.031	27	-0.066	29	-0.035	35
221	M23	1	max	1.823	30	0	24	0	27	0	35	0	35	0	33	0	31
222			min	-0.399	32	0	26	0	33	0	1	0	1	0	31	0	33
223		2	max	1.821	30	0	24	0	27	0.01	24	0.01	26	0.01	27	0.01	33
224			min	-0.4	32	0	26	0	33	-0.01	26	-0.01	24	-0.01	33	-0.01	27
225		3	max	1.819	30	0	24	0	27	0.021	24	0.021	26	0.021	27	0.021	33
226			min	-0.401	32	0	26	0	33	-0.021	26	-0.021	24	-0.021	33	-0.021	27
227		4	max	1.817	30	0	24	0	27	0.031	24	0.031	26	0.031	27	0.031	33
228			min	-0.402	32	0	26	0	33	-0.031	26	-0.031	24	-0.031	33	-0.031	27
229		5	max	1.814	30	0	24	0	27	0.041	24	0.041	26	0.042	27	0.042	33
230			min	-0.404	32	0	26	0	33	-0.041	26	-0.041	24	-0.042	33	-0.042	27
231	M24	1	max	1.317	31	0.002	24	0.014	16	0.004	8	0.004	10	0	35	0	35
232			min	-0.228	33	-0.001	34	-0.001	22	-0.004	10	-0.004	8	0	1	0	1
233		2	max	1.315	31	0.002	24	0.014	16	0.043	24	0.041	34	0.372	16	0.027	22
234			min	-0.229	33	-0.001	34	-0.001	22	-0.041	34	-0.043	24	-0.027	22	-0.372	16
235		3	max	1.313	31	0.002	24	0.014	16	0.083	24	0.081	34	0.744	16	0.055	22
236			min	-0.23	33	-0.001	34	-0.001	22	-0.081	34	-0.083	24	-0.055	22	-0.744	16
237		4	max	1.311	31	0.002	24	0.014	16	0.124	24	0.12	34	1.115	16	0.082	22
238			min	-0.232	33	-0.001	34	-0.001	22	-0.12	34	-0.124	24	-0.082	22	-1.115	16
239		5	max	1.309	31	0.002	24	0.014	16	0.165	24	0.16	34	1.487	16	0.11	22
240			min	-0.233	33	-0.001	34	-0.001	22	-0.16	34	-0.165	24	-0.11	22	-1.487	16
241	M25	1	max	1.821	30	0	24	0	35	0	35	0	35	0	29	0	35
242			min	-0.399	32	0	26	0	25	0	1	0	1	0	35	0	29
243		2	max	1.819	30	0	24	0	35	0.01	24	0.01	26	0.01	35	0.01	25
244			min	-0.4	32	0	26	0	25	-0.01	26	-0.01	24	-0.01	25	-0.01	35
245		3	max	1.817	30	0	24	0	35	0.021	24	0.021	26	0.021	35	0.021	25

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
246			min	-0.402	32	0	26	0	25	-0.021	26	-0.021	24	-0.021	25	-0.021	35
247		4	max	1.815	30	0	24	0	35	0.031	24	0.031	26	0.031	35	0.031	25
248			min	-0.403	32	0	26	0	25	-0.031	26	-0.031	24	-0.031	25	-0.031	35
249		5	max	1.813	30	0	24	0	35	0.042	24	0.042	26	0.041	35	0.042	25
250			min	-0.404	32	0	26	0	25	-0.042	26	-0.042	24	-0.042	25	-0.041	35
251	M26	1	max	1.333	29	0.001	24	0.001	22	0.007	8	0.007	10	0	35	0	35
252			min	-0.226	35	-0.001	34	-0.014	16	-0.007	10	-0.007	8	0	1	0	1
253		2	max	1.331	29	0.001	24	0.001	22	0.044	24	0.043	34	0.027	22	0.371	16
254			min	-0.227	35	-0.001	34	-0.014	16	-0.043	34	-0.044	24	-0.371	16	-0.027	22
255		3	max	1.329	29	0.001	24	0.001	22	0.084	24	0.081	34	0.055	22	0.743	16
256			min	-0.228	35	-0.001	34	-0.014	16	-0.081	34	-0.084	24	-0.743	16	-0.055	22
257		4	max	1.327	29	0.001	24	0.001	22	0.124	24	0.12	34	0.082	22	1.114	16
258			min	-0.229	35	-0.001	34	-0.014	16	-0.12	34	-0.124	24	-1.114	16	-0.082	22
259		5	max	1.325	29	0.001	24	0.001	22	0.164	24	0.159	34	0.109	22	1.485	16
260			min	-0.231	35	-0.001	34	-0.014	16	-0.159	34	-0.164	24	-1.485	16	-0.109	22
261	M27	1	max	2.314	5	0.001	29	0	35	0	35	0	35	0	35	0	35
262			min	0.254	34	0	35	0	25	0	1	0	1	0	1	0	1
263		2	max	2.312	5	0.001	29	0	35	0.02	29	0.006	35	0.009	35	0.009	25
264			min	0.252	34	0	35	0	25	-0.006	35	-0.02	29	-0.009	25	-0.009	35
265		3	max	2.31	5	0.001	29	0	35	0.039	29	0.011	35	0.019	35	0.019	25
266			min	0.251	34	0	35	0	25	-0.011	35	-0.039	29	-0.019	25	-0.019	35
267		4	max	2.308	5	0.001	29	0	35	0.059	29	0.017	35	0.028	35	0.028	25
268			min	0.25	34	0	35	0	25	-0.017	35	-0.059	29	-0.028	25	-0.028	35
269		5	max	2.306	5	0.001	29	0	35	0.079	29	0.022	35	0.038	35	0.038	25
270			min	0.249	34	0	35	0	25	-0.022	35	-0.079	29	-0.038	25	-0.038	35
271	M28	1	max	2.314	5	0.001	31	0	35	0	35	0	35	0	35	0	35
272			min	0.254	34	0	33	0	25	0	1	0	1	0	1	0	1
273		2	max	2.312	5	0.001	31	0	35	0.02	31	0.006	33	0.009	35	0.009	25
274			min	0.252	34	0	33	0	25	-0.006	33	-0.02	31	-0.009	25	-0.009	35
275		3	max	2.31	5	0.001	31	0	35	0.039	31	0.011	33	0.019	35	0.019	25
276			min	0.251	34	0	33	0	25	-0.011	33	-0.039	31	-0.019	25	-0.019	35
277		4	max	2.308	5	0.001	31	0	35	0.059	31	0.017	33	0.028	35	0.028	25
278			min	0.25	34	0	33	0	25	-0.017	33	-0.059	31	-0.028	25	-0.028	35
279		5	max	2.306	5	0.001	31	0	35	0.078	31	0.022	33	0.038	35	0.038	25
280			min	0.249	34	0	33	0	25	-0.022	33	-0.078	31	-0.038	25	-0.038	35
281	M29	1	max	1.691	31	0.001	24	0	27	0	26	0	24	0	35	0	35
282			min	-0.226	33	-0.001	26	0	25	0	24	0	26	0	1	0	1
283		2	max	1.689	31	0.001	24	0	27	0.029	24	0.029	26	0.003	27	0.003	25
284			min	-0.227	33	-0.001	26	0	25	-0.029	26	-0.029	24	-0.003	25	-0.003	27
285		3	max	1.687	31	0.001	24	0	27	0.058	24	0.059	26	0.005	27	0.005	25
286			min	-0.229	33	-0.001	26	0	25	-0.059	26	-0.058	24	-0.005	25	-0.005	27
287		4	max	1.685	31	0.001	24	0	27	0.088	24	0.088	26	0.008	27	0.008	25
288			min	-0.23	33	-0.001	26	0	25	-0.088	26	-0.088	24	-0.008	25	-0.008	27
289		5	max	1.683	31	0.001	24	0	27	0.117	24	0.117	26	0.01	27	0.01	25
290			min	-0.231	33	-0.001	26	0	25	-0.117	26	-0.117	24	-0.01	25	-0.01	27
291	M30	1	max	1.825	28	0	25	0.001	31	0	35	0	35	0	33	0	31
292			min	-0.397	34	0	27	0	33	0	1	0	1	0	31	0	33
293		2	max	1.823	28	0	25	0.001	31	0.008	25	0.008	27	0.017	31	0.009	33
294			min	-0.399	34	0	27	0	33	-0.008	27	-0.008	25	-0.009	33	-0.017	31
295		3	max	1.821	28	0	25	0.001	31	0.015	25	0.015	27	0.034	31	0.017	33
296			min	-0.4	34	0	27	0	33	-0.015	27	-0.015	25	-0.017	33	-0.034	31
297		4	max	1.819	28	0	25	0.001	31	0.023	25	0.023	27	0.05	31	0.026	33
298			min	-0.401	34	0	27	0	33	-0.023	27	-0.023	25	-0.026	33	-0.05	31
299		5	max	1.817	28	0	25	0.001	31	0.031	25	0.031	27	0.067	31	0.034	33
300			min	-0.402	34	0	27	0	33	-0.031	27	-0.031	25	-0.034	33	-0.067	31

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
301	M31	1	max	1.693	29	0.001	24	0	35	0	26	0	24	0	35	0	35
302			min	-0.226	35	-0.001	26	0	25	0	24	0	26	0	1	0	1
303		2	max	1.691	29	0.001	24	0	35	0.029	24	0.029	26	0.003	35	0.003	25
304			min	-0.227	35	-0.001	26	0	25	-0.029	26	-0.029	24	-0.003	25	-0.003	35
305		3	max	1.689	29	0.001	24	0	35	0.058	24	0.058	26	0.005	35	0.005	25
306			min	-0.228	35	-0.001	26	0	25	-0.058	26	-0.058	24	-0.005	25	-0.005	35
307		4	max	1.687	29	0.001	24	0	35	0.087	24	0.088	26	0.008	35	0.008	25
308			min	-0.23	35	-0.001	26	0	25	-0.088	26	-0.087	24	-0.008	25	-0.008	35
309		5	max	1.685	29	0.001	24	0	35	0.117	24	0.117	26	0.01	35	0.01	25
310			min	-0.231	35	-0.001	26	0	25	-0.117	26	-0.117	24	-0.01	25	-0.01	35
311	M32	1	max	0.005	22	0.114	18	0.02	27	0.426	18	0.077	20	1.927	33	2.241	31
312			min	-0.104	16	0.01	20	-0.019	33	-0.077	20	-0.426	18	-2.241	31	-1.927	33
313		2	max	0.005	22	0.102	18	0.018	31	0.641	18	0.058	20	0.813	33	1.008	31
314			min	-0.096	16	0.009	20	-0.016	33	-0.058	20	-0.641	18	-1.008	31	-0.813	33
315		3	max	0.005	35	0.092	5	0.016	31	0.832	18	0.04	20	0.122	27	0.122	33
316			min	-0.089	29	0.009	20	-0.013	33	-0.04	20	-0.832	18	-0.122	33	-0.122	27
317		4	max	0.007	35	0.087	5	0.014	31	0.998	18	0.023	20	1.058	31	0.879	33
318			min	-0.083	29	0.008	20	-0.01	33	-0.023	20	-0.998	18	-0.879	33	-1.058	31
319		5	max	0.008	35	0.081	5	0.012	31	1.139	18	0.007	20	1.89	31	1.459	33
320			min	-0.077	29	0.008	35	-0.008	33	-0.007	20	-1.139	18	-1.459	33	-1.89	31
321	M33	1	max	0.031	22	0.162	18	0.015	27	0	35	0	35	0	35	0	35
322			min	-0.162	16	0.007	20	-0.014	33	0	1	0	1	0	1	0	1
323		2	max	0.031	22	0.149	18	0.012	27	0.31	18	-0.013	20	0.853	27	0.827	33
324			min	-0.154	16	0.006	20	-0.012	33	0.013	20	-0.31	18	-0.827	33	-0.853	27
325		3	max	0.031	22	0.137	18	0.009	27	0.596	18	-0.025	20	1.528	27	1.477	33
326			min	-0.147	16	0.006	20	-0.009	33	0.025	20	-0.596	18	-1.477	33	-1.528	27
327		4	max	0.031	22	0.125	5	0.006	27	0.857	18	-0.037	20	2.025	27	1.949	33
328			min	-0.139	16	0.005	20	-0.006	33	0.037	20	-0.857	18	-1.949	33	-2.025	27
329		5	max	0.03	22	0.12	5	0.004	31	1.093	18	-0.047	20	2.344	27	2.242	33
330			min	-0.132	16	0.005	20	-0.003	33	0.047	20	-1.093	18	-2.242	33	-2.344	27
331	M34	1	max	0.036	22	0.015	10	0.003	35	1.09	18	-0.046	20	0.66	5	-0.007	33
332			min	-0.054	16	-0.02	2	-0.007	29	0.046	20	-1.09	18	0.007	33	-0.66	3
333		2	max	0.036	22	0.008	22	0	35	1.089	18	-0.029	20	0.371	31	0.147	33
334			min	-0.047	16	-0.022	12	-0.005	3	0.029	20	-1.089	18	-0.147	33	-0.371	31
335		3	max	0.036	22	0.002	22	0.002	33	1.064	18	-0.011	20	0.124	27	0.123	33
336			min	-0.041	8	-0.028	16	-0.005	31	0.011	20	-1.064	18	-0.123	33	-0.124	27
337		4	max	0.036	22	-0.003	22	0.005	33	1.014	18	0.007	20	0.079	33	0.327	5
338			min	-0.036	8	-0.036	16	-0.007	31	-0.007	20	-1.014	18	-0.327	3	-0.079	33
339		5	max	0.037	10	-0.008	33	0.007	33	0.939	18	0.027	20	0.458	33	0.858	31
340			min	-0.032	20	-0.045	31	-0.01	31	-0.027	20	-0.939	18	-0.858	31	-0.458	33
341	M35	1	max	0.038	22	0.015	10	0.007	31	1.093	18	-0.047	20	-0.007	35	0.66	5
342			min	-0.07	16	-0.019	2	-0.003	33	0.047	20	-1.093	18	-0.66	3	0.007	35
343		2	max	0.038	22	0.008	22	0.005	5	1.093	18	-0.031	20	0.147	35	0.371	29
344			min	-0.062	16	-0.021	12	0	33	0.031	20	-1.093	18	-0.371	29	-0.147	35
345		3	max	0.038	22	0.002	22	0.005	29	1.068	18	-0.013	20	0.123	35	0.124	25
346			min	-0.055	16	-0.027	16	-0.002	35	0.013	20	-1.068	18	-0.124	25	-0.123	35
347		4	max	0.037	22	-0.003	22	0.007	29	1.019	18	0.005	20	0.327	5	0.079	35
348			min	-0.047	16	-0.036	16	-0.005	35	-0.005	20	-1.019	18	-0.079	35	-0.327	3
349		5	max	0.037	22	-0.008	35	0.01	29	0.945	18	0.024	20	0.859	29	0.458	35
350			min	-0.042	12	-0.045	29	-0.007	35	-0.024	20	-0.945	18	-0.458	35	-0.859	29
351	M36	1	max	0.08	18	-0.021	35	0.01	29	0.945	18	0.024	20	1.434	35	1.65	29
352			min	-0.03	20	-0.17	3	-0.007	35	-0.024	20	-0.945	18	-1.65	29	-1.434	35
353		2	max	0.085	18	-0.023	20	0.012	29	0.635	18	0.07	20	0.867	35	0.951	25
354			min	-0.027	20	-0.175	3	-0.01	35	-0.07	20	-0.635	18	-0.951	25	-0.867	35
355		3	max	0.09	18	-0.024	20	0.014	25	0.3	18	0.117	20	0.122	27	0.122	25

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
356			min	-0.023	20	-0.18	3	-0.013	35	-0.117	20	-0.3	18	-0.122	25	-0.122	27
357		4	max	0.094	18	-0.024	20	0.017	25	0.136	22	0.291	16	0.887	29	0.801	35
358			min	-0.019	20	-0.187	18	-0.016	35	-0.291	16	-0.136	22	-0.801	35	-0.887	29
359		5	max	0.099	18	-0.025	20	0.02	25	0.053	22	0.65	16	2.069	25	1.902	35
360			min	-0.015	20	-0.199	18	-0.019	35	-0.65	16	-0.053	22	-1.902	35	-2.069	25
361	M37	1	max	0.09	18	-0.021	33	0.008	33	0.939	18	0.027	20	1.65	31	1.436	33
362			min	-0.025	20	-0.17	3	-0.01	31	-0.027	20	-0.939	18	-1.436	33	-1.65	31
363		2	max	0.094	18	-0.023	20	0.01	33	0.628	18	0.073	20	0.951	27	0.868	33
364			min	-0.021	20	-0.175	3	-0.012	31	-0.073	20	-0.628	18	-0.868	33	-0.951	27
365		3	max	0.099	18	-0.024	20	0.013	33	0.292	18	0.12	20	0.122	27	0.122	25
366			min	-0.017	20	-0.181	3	-0.014	27	-0.12	20	-0.292	18	-0.122	25	-0.122	27
367		4	max	0.104	18	-0.024	20	0.016	33	0.136	22	0.302	16	0.802	33	0.887	31
368			min	-0.013	20	-0.187	18	-0.017	27	-0.302	16	-0.136	22	-0.887	31	-0.802	33
369		5	max	0.108	18	-0.025	20	0.019	33	0.053	22	0.662	16	1.904	33	2.069	27
370			min	-0.009	20	-0.199	18	-0.02	27	-0.662	16	-0.053	22	-2.069	27	-1.904	33
371	M38	1	max	0.161	18	-0.038	20	0.021	25	0.053	22	0.65	16	2.899	35	3.105	25
372			min	-0.008	20	-0.325	3	-0.019	35	-0.65	16	-0.053	22	-3.105	25	-2.899	35
373		2	max	0.165	18	-0.038	20	0.023	25	-0.068	22	1.25	5	1.595	35	1.698	25
374			min	-0.004	20	-0.33	3	-0.022	35	-1.25	3	0.068	22	-1.698	25	-1.595	35
375		3	max	0.17	18	-0.039	20	0.026	25	-0.2	22	1.913	5	0.113	35	0.113	33
376			min	0	20	-0.335	3	-0.025	35	-1.913	3	0.2	22	-0.113	33	-0.113	35
377		4	max	0.174	18	-0.039	20	0.029	25	-0.342	35	2.586	5	1.65	25	1.547	35
378			min	0.003	20	-0.342	18	-0.027	35	-2.586	3	0.342	35	-1.547	35	-1.65	25
379		5	max	0.179	18	-0.04	20	0.032	25	-0.455	35	3.269	5	3.591	25	3.384	35
380			min	0.007	20	-0.355	18	-0.03	35	-3.269	3	0.455	35	-3.384	35	-3.591	25
381	M39	1	max	0.17	18	-0.038	20	0.019	33	0.053	22	0.662	16	3.105	27	2.898	33
382			min	-0.002	20	-0.325	3	-0.021	27	-0.662	16	-0.053	22	-2.898	33	-3.105	27
383		2	max	0.175	18	-0.038	20	0.022	33	-0.068	22	1.263	5	1.698	27	1.595	33
384			min	0.002	20	-0.33	3	-0.023	27	-1.263	3	0.068	22	-1.595	33	-1.698	27
385		3	max	0.179	18	-0.039	20	0.025	33	-0.199	22	1.926	5	0.113	35	0.113	33
386			min	0.006	20	-0.336	3	-0.026	27	-1.926	3	0.199	22	-0.113	33	-0.113	35
387		4	max	0.184	18	-0.039	20	0.027	33	-0.342	22	2.6	5	1.547	33	1.65	27
388			min	0.009	20	-0.343	18	-0.029	27	-2.6	3	0.342	22	-1.65	27	-1.547	33
389		5	max	0.189	18	-0.04	20	0.03	33	-0.457	33	3.284	5	3.384	33	3.591	27
390			min	0.013	20	-0.355	18	-0.032	27	-3.284	3	0.457	33	-3.591	27	-3.384	33
391	M40	1	max	-0.002	22	0.27	18	0.032	27	-0.228	35	1.61	5	3.356	33	3.557	27
392			min	-0.196	16	0.025	20	-0.03	33	-1.61	3	0.228	35	-3.557	27	-3.356	33
393		2	max	-0.002	22	0.257	18	0.029	27	-0.126	22	1.103	5	1.532	33	1.633	27
394			min	-0.188	16	0.024	20	-0.027	33	-1.103	3	0.126	22	-1.633	27	-1.532	33
395		3	max	-0.002	22	0.247	5	0.026	27	-0.011	22	0.625	16	0.113	35	0.113	33
396			min	-0.181	16	0.024	20	-0.024	33	-0.625	16	0.011	22	-0.113	33	-0.113	35
397		4	max	-0.003	22	0.241	5	0.023	27	0.092	22	0.191	16	1.681	27	1.58	33
398			min	-0.173	16	0.023	20	-0.022	33	-0.191	16	-0.092	22	-1.58	33	-1.681	27
399		5	max	-0.003	22	0.236	5	0.02	27	0.426	18	0.077	20	3.071	27	2.87	33
400			min	-0.166	3	0.023	20	-0.019	33	-0.077	20	-0.426	18	-2.87	33	-3.071	27
401	M41	1	max	0.134	5	-0.024	20	0.004	25	0.606	18	0.058	20	2.482	31	2.297	25
402			min	0	35	-0.272	3	-0.006	31	-0.058	20	-0.606	18	-2.297	25	-2.482	31
403		2	max	0.137	5	-0.025	20	0.006	25	0.11	10	0.108	20	2.084	27	1.978	25
404			min	0.002	35	-0.277	3	-0.008	31	-0.108	20	-0.11	10	-1.978	25	-2.084	27
405		3	max	0.143	29	-0.025	20	0.009	25	0.002	22	0.552	16	1.551	27	1.48	25
406			min	0.004	35	-0.282	3	-0.01	31	-0.552	16	-0.002	22	-1.48	25	-1.551	27
407		4	max	0.149	29	-0.026	20	0.012	25	-0.116	22	1.097	5	0.839	27	0.804	25
408			min	0.005	35	-0.287	3	-0.013	27	-1.097	3	0.116	22	-0.804	25	-0.839	27
409		5	max	0.155	29	-0.026	20	0.015	25	-0.228	33	1.675	5	0.049	25	0.05	27
410			min	0.007	35	-0.296	18	-0.015	27	-1.675	3	0.228	33	-0.05	27	-0.049	25

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
411	M42	1	max	0.13	5	-0.024	20	0.006	29	0.612	18	0.056	20	2.297	27	2.483	29
412			min	-0.001	33	-0.272	3	-0.004	27	-0.056	20	-0.612	18	-2.483	29	-2.297	27
413		2	max	0.133	5	-0.025	20	0.008	29	0.111	10	0.105	20	1.977	27	2.084	25
414			min	0.001	33	-0.277	3	-0.006	27	-0.105	20	-0.111	10	-2.084	25	-1.977	27
415		3	max	0.139	31	-0.025	20	0.01	29	0.002	22	0.544	16	1.48	27	1.551	25
416			min	0.003	33	-0.282	3	-0.009	27	-0.544	16	-0.002	22	-1.551	25	-1.48	27
417		4	max	0.145	31	-0.026	20	0.013	25	-0.116	22	1.09	5	0.804	27	0.839	25
418			min	0.005	33	-0.287	3	-0.012	27	-1.09	3	0.116	22	-0.839	25	-0.804	27
419		5	max	0.151	31	-0.026	20	0.015	25	-0.228	35	1.668	5	0.05	25	0.049	27
420			min	0.007	33	-0.297	18	-0.015	27	-1.668	3	0.228	35	-0.049	27	-0.05	25
421	M43	1	max	0.02	33	-0.005	35	0.008	35	1.133	18	0.01	20	1.259	29	0.493	35
422			min	-0.022	27	-0.053	3	-0.013	29	-0.01	20	-1.133	18	-0.493	35	-1.259	29
423		2	max	0.024	29	-0.006	20	0.005	35	1.038	18	0.021	20	0.495	29	0.097	35
424			min	-0.019	35	-0.058	3	-0.011	29	-0.021	20	-1.038	18	-0.097	35	-0.495	29
425		3	max	0.03	29	-0.006	20	0.002	35	0.919	18	0.032	20	0.12	35	0.135	29
426			min	-0.018	35	-0.066	18	-0.009	29	-0.032	20	-0.919	18	-0.135	29	-0.12	35
427		4	max	0.037	29	-0.007	20	0	33	0.775	18	0.045	20	0.159	35	0.632	29
428			min	-0.016	35	-0.078	18	-0.007	29	-0.045	20	-0.775	18	-0.632	29	-0.159	35
429		5	max	0.043	29	-0.007	20	0.002	33	0.606	18	0.058	20	0.021	35	0.995	29
430			min	-0.014	35	-0.091	18	-0.006	3	-0.058	20	-0.606	18	-0.995	29	-0.021	35
431	M44	1	max	0.02	35	-0.005	33	0.013	31	1.139	18	0.007	20	0.493	33	1.259	31
432			min	-0.023	25	-0.053	3	-0.008	33	-0.007	20	-1.139	18	-1.259	31	-0.493	33
433		2	max	0.022	27	-0.006	20	0.011	31	1.044	18	0.018	20	0.097	33	0.495	31
434			min	-0.02	33	-0.058	3	-0.005	33	-0.018	20	-1.044	18	-0.495	31	-0.097	33
435		3	max	0.027	31	-0.006	20	0.009	31	0.925	18	0.03	20	0.135	31	0.12	33
436			min	-0.018	33	-0.066	18	-0.002	33	-0.03	20	-0.925	18	-0.12	33	-0.135	31
437		4	max	0.033	31	-0.007	20	0.007	31	0.781	18	0.042	20	0.632	31	0.159	33
438			min	-0.016	33	-0.078	18	0	35	-0.042	20	-0.781	18	-0.159	33	-0.632	31
439		5	max	0.039	31	-0.007	20	0.006	5	0.612	18	0.056	20	0.995	31	0.021	33
440			min	-0.015	33	-0.091	18	-0.002	35	-0.056	20	-0.612	18	-0.021	33	-0.995	31
441	M45	1	max	0.004	22	0.114	18	0.019	35	0.419	18	0.08	20	2.241	29	1.926	35
442			min	-0.099	16	0.01	20	-0.02	25	-0.08	20	-0.419	18	-1.926	35	-2.241	29
443		2	max	0.004	22	0.102	18	0.016	35	0.635	18	0.061	20	1.008	29	0.813	35
444			min	-0.091	16	0.009	20	-0.018	29	-0.061	20	-0.635	18	-0.813	35	-1.008	29
445		3	max	0.005	33	0.092	5	0.013	35	0.826	18	0.043	20	0.122	35	0.122	25
446			min	-0.085	31	0.009	20	-0.016	29	-0.043	20	-0.826	18	-0.122	25	-0.122	35
447		4	max	0.007	33	0.087	5	0.01	35	0.992	18	0.026	20	0.879	35	1.057	29
448			min	-0.079	31	0.008	20	-0.014	29	-0.026	20	-0.992	18	-1.057	29	-0.879	35
449		5	max	0.009	33	0.081	5	0.008	35	1.133	18	0.01	20	1.458	35	1.89	29
450			min	-0.073	31	0.008	33	-0.012	29	-0.01	20	-1.133	18	-1.89	29	-1.458	35
451	M46	1	max	-0.003	22	0.27	18	0.03	35	-0.229	33	1.619	5	3.557	25	3.356	35
452			min	-0.191	16	0.025	20	-0.032	25	-1.619	3	0.229	33	-3.356	35	-3.557	25
453		2	max	-0.003	22	0.258	18	0.027	35	-0.125	22	1.112	5	1.633	25	1.532	35
454			min	-0.184	16	0.024	20	-0.029	25	-1.112	3	0.125	22	-1.532	35	-1.633	25
455		3	max	-0.003	22	0.247	5	0.024	35	-0.011	22	0.634	16	0.113	35	0.113	33
456			min	-0.176	16	0.024	20	-0.026	25	-0.634	16	0.011	22	-0.113	33	-0.113	35
457		4	max	-0.003	22	0.241	5	0.022	35	0.092	22	0.2	16	1.58	35	1.681	25
458			min	-0.168	16	0.023	20	-0.023	25	-0.2	16	-0.092	22	-1.681	25	-1.58	35
459		5	max	-0.003	22	0.236	5	0.019	35	0.419	18	0.08	20	2.87	35	3.071	25
460			min	-0.162	3	0.023	20	-0.02	25	-0.08	20	-0.419	18	-3.071	25	-2.87	35
461	M47	1	max	0.029	22	0.161	18	0.014	35	0	35	0	35	0	35	0	35
462			min	-0.147	16	0.007	20	-0.015	25	0	1	0	1	0	1	0	1
463		2	max	0.029	22	0.149	18	0.012	35	0.31	18	-0.013	20	0.827	35	0.853	25
464			min	-0.139	16	0.006	20	-0.012	25	0.013	20	-0.31	18	-0.853	25	-0.827	35
465		3	max	0.029	22	0.137	18	0.009	35	0.594	18	-0.025	20	1.477	35	1.528	25

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
466			min	-0.131	16	0.006	20	-0.009	25	0.025	20	-0.594	18	-1.528	25	-1.477	35
467		4	max	0.029	22	0.124	18	0.006	35	0.855	18	-0.036	20	1.948	35	2.025	25
468			min	-0.124	16	0.005	20	-0.006	25	0.036	20	-0.855	18	-2.025	25	-1.948	35
469		5	max	0.029	22	0.119	5	0.003	35	1.09	18	-0.046	20	2.242	35	2.344	25
470			min	-0.116	16	0.005	20	-0.004	29	0.046	20	-1.09	18	-2.344	25	-2.242	35
471	M48	1	max	0	33	0.006	27	-0.102	35	0.034	29	0.026	35	0.411	29	0.068	35
472			min	-0.004	3	-0.006	25	-1.39	3	-0.026	35	-0.034	29	-0.29	35	-0.097	29
473		2	max	0	33	0.006	27	-0.041	35	0.023	29	0.012	35	-0.534	33	1.85	5
474			min	-0.004	3	-0.006	25	-0.695	3	-0.012	35	-0.023	29	-7.852	3	0.126	33
475		3	max	0	33	0.006	27	0.02	27	0.015	5	-0.001	22	-0.923	22	2.483	5
476			min	-0.004	3	-0.006	25	-0.02	25	0.001	22	-0.015	3	-10.538	3	0.218	22
477		4	max	0	33	0.006	27	0.695	5	0.023	31	0.012	33	-0.534	35	1.85	5
478			min	-0.004	3	-0.006	25	0.041	33	-0.012	33	-0.023	31	-7.852	3	0.126	35
479		5	max	0	33	0.006	27	1.39	5	0.034	31	0.026	33	0.411	31	0.068	33
480			min	-0.004	3	-0.006	25	0.102	33	-0.026	33	-0.034	31	-0.29	33	-0.097	31
481	M49	1	max	0.001	5	0.006	25	-0.071	33	0.04	31	0.024	33	0.426	31	0.064	33
482			min	0	21	-0.006	27	-0.942	3	-0.024	33	-0.04	31	-0.274	33	-0.1	31
483		2	max	0.001	5	0.006	25	-0.026	33	0.027	31	0.011	33	-0.361	35	1.244	5
484			min	0	21	-0.006	27	-0.471	3	-0.011	33	-0.027	31	-5.281	3	0.085	35
485		3	max	0.001	5	0.006	25	0.019	25	0.019	5	-0.002	22	-0.68	33	1.673	5
486			min	0	21	-0.006	27	-0.019	27	0.002	22	-0.019	3	-7.101	3	0.16	33
487		4	max	0.001	5	0.006	25	0.471	5	0.027	29	0.011	35	-0.361	33	1.244	5
488			min	0	21	-0.006	27	0.026	35	-0.011	35	-0.027	29	-5.281	3	0.085	33
489		5	max	0.001	5	0.006	25	0.942	5	0.04	29	0.024	35	0.426	29	0.064	35
490			min	0	21	-0.006	27	0.071	35	-0.024	35	-0.04	29	-0.273	35	-0.1	29
491	M50	1	max	0	16	0.013	25	-0.046	33	0.065	27	0.06	33	0.724	31	0.157	33
492			min	0	33	-0.013	27	-0.942	3	-0.06	33	-0.065	27	-0.668	33	-0.171	31
493		2	max	0	16	0.013	25	-0.001	33	0.039	31	0.029	33	-0.163	35	1.244	5
494			min	0	33	-0.013	27	-0.471	3	-0.029	33	-0.039	31	-5.278	3	0.038	35
495		3	max	0	16	0.013	25	0.045	25	0.016	5	-0.002	20	-0.68	22	1.672	5
496			min	0	33	-0.013	27	-0.045	27	0.002	20	-0.016	3	-7.098	3	0.16	22
497		4	max	0	16	0.013	25	0.471	5	0.039	29	0.029	35	-0.163	33	1.244	5
498			min	0	33	-0.013	27	0.001	35	-0.029	35	-0.039	29	-5.278	3	0.038	33
499		5	max	0	16	0.013	25	0.942	5	0.065	25	0.06	35	0.724	25	0.157	35
500			min	0	33	-0.013	27	0.046	35	-0.06	35	-0.065	25	-0.668	35	-0.171	25
501	M51	1	max	0.025	16	0	27	-0.09	20	0.016	5	-0.001	35	0.181	5	-0.004	20
502			min	-0.012	22	0	25	-0.941	3	0.001	35	-0.016	3	0.016	20	-0.043	3
503		2	max	0.025	16	0	27	-0.045	20	0.016	5	-0.001	35	-0.505	22	1.244	5
504			min	-0.012	22	0	25	-0.471	3	0.001	35	-0.016	3	-5.278	3	0.119	22
505		3	max	0.025	16	0	27	0	16	0.016	5	-0.002	22	-0.68	22	1.672	5
506			min	-0.012	22	0	25	0	22	0.002	22	-0.016	3	-7.096	3	0.16	22
507		4	max	0.025	16	0	27	0.471	5	0.016	5	-0.001	33	-0.505	32	1.243	5
508			min	-0.012	22	0	25	0.045	22	0.001	33	-0.016	3	-5.274	3	0.119	32
509		5	max	0.025	16	0	27	0.942	5	0.016	5	-0.001	33	0.188	5	-0.004	22
510			min	-0.012	22	0	25	0.09	22	0.001	33	-0.016	3	0.018	22	-0.044	3
511	M52	1	max	0	29	0.013	27	-0.046	35	0.064	25	0.06	35	0.721	25	0.158	35
512			min	0	31	-0.013	25	-0.942	3	-0.06	35	-0.064	25	-0.669	35	-0.17	25
513		2	max	0	29	0.013	27	-0.001	35	0.037	29	0.029	35	-0.162	33	1.244	5
514			min	0	31	-0.013	25	-0.471	3	-0.029	35	-0.037	29	-5.278	3	0.038	33
515		3	max	0	29	0.013	27	0.045	27	0.016	5	-0.002	22	-0.68	20	1.672	5
516			min	0	31	-0.013	25	-0.045	25	0.002	22	-0.016	3	-7.098	3	0.16	20
517		4	max	0	29	0.013	27	0.471	5	0.037	31	0.029	33	-0.162	35	1.244	5
518			min	0	31	-0.013	25	0.001	33	-0.029	33	-0.037	31	-5.278	3	0.038	35
519		5	max	0	29	0.013	27	0.942	5	0.064	27	0.06	33	0.721	27	0.158	33
520			min	0	31	-0.013	25	0.046	33	-0.06	33	-0.064	27	-0.669	33	-0.17	27

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
521	M53	1	max	0	25	0.005	35	-0.072	35	0.031	29	0.023	35	0.35	29	0.062	35
522			min	0	18	-0.005	33	-0.942	3	-0.023	35	-0.031	29	-0.265	35	-0.083	29
523		2	max	0	25	0.005	35	-0.027	35	0.022	29	0.011	35	-0.365	33	1.244	5
524			min	0	18	-0.005	33	-0.471	3	-0.011	35	-0.022	29	-5.278	3	0.086	33
525		3	max	0	25	0.005	35	0.018	35	0.016	5	-0.001	20	-0.68	20	1.672	5
526			min	0	18	-0.005	33	-0.018	33	0.001	20	-0.016	3	-7.098	3	0.16	20
527		4	max	0	25	0.005	35	0.471	5	0.022	31	0.011	33	-0.365	35	1.244	5
528			min	0	18	-0.005	33	0.027	33	-0.011	33	-0.022	31	-5.278	3	0.086	35
529		5	max	0	25	0.005	35	0.942	5	0.031	31	0.023	33	0.35	31	0.062	33
530			min	0	18	-0.005	33	0.072	33	-0.023	33	-0.031	31	-0.265	33	-0.082	31
531	M54	1	max	0.003	5	0.006	25	-0.07	33	0.035	31	0.026	33	0.319	27	0.071	33
532			min	0	20	-0.006	27	-0.942	3	-0.026	33	-0.035	31	-0.303	33	-0.075	27
533		2	max	0.003	5	0.006	25	-0.025	33	0.024	31	0.012	33	-0.364	35	1.264	5
534			min	0	20	-0.006	27	-0.471	3	-0.012	33	-0.024	31	-5.366	3	0.086	35
535		3	max	0.003	5	0.006	25	0.02	25	0.018	18	0.005	20	-0.601	20	1.693	5
536			min	0	20	-0.006	27	-0.02	27	-0.005	20	-0.018	18	-7.187	3	0.142	20
537		4	max	0.003	5	0.006	25	0.471	5	0.024	29	0.012	35	-0.364	33	1.264	5
538			min	0	20	-0.006	27	0.025	35	-0.012	35	-0.024	29	-5.367	3	0.086	33
539		5	max	0.003	5	0.006	25	0.942	5	0.035	29	0.026	35	0.319	25	0.071	27
540			min	0	20	-0.006	27	0.07	35	-0.026	35	-0.035	29	-0.303	27	-0.075	25
541	M55	1	max	0.704	31	0.003	27	0	35	0	35	0	35	0	35	0	35
542			min	-0.199	33	0	2	0	1	0	1	0	1	0	1	0	1
543		2	max	0.705	31	0.002	27	0	35	0.023	27	0	2	0.048	27	0	2
544			min	-0.199	33	0	2	0	1	0	2	-0.023	27	0	2	-0.056	19
545		3	max	0.706	31	0	35	0	35	0.031	27	0	2	0.065	27	0	2
546			min	-0.198	33	0	1	0	1	0	2	-0.031	27	0	2	-0.074	19
547		4	max	0.707	31	0	2	0	35	0.023	27	0	2	0.048	27	0	2
548			min	-0.197	33	-0.002	13	0	1	0	2	-0.023	27	0	2	-0.056	19
549		5	max	0.708	31	0	2	0	35	0	35	0	35	0	35	0	35
550			min	-0.197	33	-0.003	13	0	1	0	1	0	1	0	1	0	1
551	M56	1	max	0.706	29	0.005	27	0	31	0	2	0.039	27	-0.001	2	0.092	27
552			min	-0.2	35	0	2	0	29	-0.039	27	0	2	-0.08	27	0.001	2
553		2	max	0.705	29	0.003	27	0	31	0.004	33	0.006	27	0.013	25	0.014	27
554			min	-0.2	35	0	2	0	29	-0.006	27	-0.004	33	-0.012	27	-0.015	25
555		3	max	0.704	29	0.001	27	0	31	0.018	25	0	2	0.041	25	0	2
556			min	-0.201	35	0	2	0	29	0	2	-0.018	25	0	2	-0.047	25
557		4	max	0.703	29	0	2	0	31	0.017	25	0	2	0.037	25	0	2
558			min	-0.202	35	-0.001	25	0	29	0	2	-0.017	25	0	2	-0.042	25
559		5	max	0.702	29	0	2	0	31	0	35	0	35	0	35	0	35
560			min	-0.202	35	-0.003	25	0	29	0	1	0	1	0	1	0	1
561	M57	1	max	0.713	29	0.003	25	0	29	0	35	0	35	0	35	0	35
562			min	-0.196	35	0	2	0	31	0	1	0	1	0	1	0	1
563		2	max	0.711	29	0.001	25	0	29	0.017	25	0	2	0.037	25	0	2
564			min	-0.197	35	0	2	0	31	0	2	-0.017	25	0	2	-0.042	25
565		3	max	0.71	29	0	2	0	29	0.018	25	0	2	0.041	25	0	2
566			min	-0.197	35	-0.001	27	0	31	0	2	-0.018	25	0	2	-0.047	25
567		4	max	0.709	29	0	2	0	29	0.004	33	0.006	27	0.013	25	0.014	27
568			min	-0.198	35	-0.003	27	0	31	-0.006	27	-0.004	33	-0.012	27	-0.015	25
569		5	max	0.708	29	0	2	0	29	0	2	0.039	27	-0.001	2	0.092	27
570			min	-0.199	35	-0.005	27	0	31	-0.039	27	0	2	-0.08	27	0.001	2
571	M58	1	max	0.697	31	0.003	27	0	35	0	35	0	35	0	35	0	35
572			min	-0.203	33	0	2	0	1	0	1	0	1	0	1	0	1
573		2	max	0.698	31	0.002	27	0	35	0.023	27	0	2	0.048	27	0	2
574			min	-0.203	33	0	2	0	1	0	2	-0.023	27	0	2	-0.056	27
575		3	max	0.699	31	0	35	0	35	0.031	27	0	2	0.065	27	0	2

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
576			min	-0.202	33	0	1	0	1	0	2	-0.031	27	0	2	-0.074	27
577		4	max	0.7	31	0	2	0	35	0.023	27	0	2	0.048	27	0	2
578			min	-0.201	33	-0.002	12	0	1	0	2	-0.023	27	0	2	-0.056	27
579		5	max	0.701	31	0	2	0	35	0	35	0	35	0	35	0	35
580			min	-0.201	33	-0.003	12	0	1	0	1	0	1	0	1	0	1
581	M59	1	max	0.033	24	0.084	35	0.905	5	0	35	0	35	0	35	0	35
582			min	-0.031	34	-0.084	25	0.093	20	0	1	0	1	0	1	0	1
583		2	max	0.028	27	0.042	35	0.453	5	0.401	35	1.468	33	12.707	5	-1.307	35
584			min	-0.026	33	-0.042	25	0.047	20	-0.401	25	-1.468	27	1.307	20	-12.707	3
585		3	max	0.028	27	0	35	0	35	0.535	35	1.958	33	16.943	5	-1.743	35
586			min	-0.026	33	0	1	0	1	-0.535	25	-1.958	27	1.743	20	-16.943	3
587		4	max	0.028	27	0.042	33	-0.047	35	0.401	35	1.468	33	12.707	5	-1.307	35
588			min	-0.026	33	-0.042	27	-0.453	3	-0.401	25	-1.468	27	1.307	20	-12.707	3
589		5	max	0.028	27	0.084	33	-0.093	35	0	35	0	35	0	35	0	35
590			min	-0.026	33	-0.084	27	-0.905	3	0	1	0	1	0	1	0	1
591	M60	1	max	0.009	30	0	35	0.005	31	0	35	0	35	0	35	0	35
592			min	-0.003	32	0	1	0	2	0	1	0	1	0	1	0	1
593		2	max	0.009	30	0	35	0.003	31	0	35	0	35	0.073	31	0	2
594			min	-0.003	32	0	1	0	2	0	1	0	1	0	2	-0.073	1
595		3	max	0.009	30	0	35	0	35	0	35	0	35	0.097	31	0	2
596			min	-0.003	32	0	1	0	1	0	1	0	1	0	2	-0.097	1
597		4	max	0.009	30	0	35	0	2	0	35	0	35	0.073	31	0	2
598			min	-0.003	32	0	1	-0.003	1	0	1	0	1	0	2	-0.073	1
599		5	max	0.009	30	0	35	0	2	0	35	0	35	0	35	0	35
600			min	-0.003	32	0	1	-0.005	1	0	1	0	1	0	1	0	1
601	M61	1	max	0.058	35	0.084	35	0.905	5	0	35	0	35	0	35	0	35
602			min	-0.059	25	-0.084	25	0.093	20	0	1	0	1	0	1	0	1
603		2	max	0.058	35	0.042	35	0.453	5	0.401	35	1.468	33	12.707	5	-1.307	35
604			min	-0.059	25	-0.042	25	0.047	20	-0.401	25	-1.468	27	1.307	20	-12.707	3
605		3	max	0.058	35	0	35	0	35	0.535	35	1.958	33	16.943	5	-1.743	35
606			min	-0.059	25	0	1	0	1	-0.535	25	-1.958	27	1.743	20	-16.943	3
607		4	max	0.058	35	0.042	33	-0.047	35	0.401	35	1.468	33	12.707	5	-1.307	35
608			min	-0.059	25	-0.042	27	-0.453	3	-0.401	25	-1.468	27	1.307	20	-12.707	3
609		5	max	0.058	35	0.084	33	-0.093	35	0	35	0	35	0	35	0	35
610			min	-0.059	25	-0.084	27	-0.905	3	0	1	0	1	0	1	0	1
611	M62	1	max	0.058	33	0.084	33	0.905	5	0	35	0	35	0	35	0	35
612			min	-0.058	27	-0.084	27	0.093	20	0	1	0	1	0	1	0	1
613		2	max	0.058	33	0.042	33	0.453	5	0.401	33	1.468	35	12.707	5	-1.307	35
614			min	-0.058	27	-0.042	27	0.047	20	-0.401	27	-1.468	25	1.307	20	-12.707	3
615		3	max	0.058	33	0	35	0	35	0.535	33	1.958	35	16.943	5	-1.743	35
616			min	-0.058	27	0	1	0	1	-0.535	27	-1.958	25	1.743	20	-16.943	3
617		4	max	0.058	33	0.042	35	-0.047	35	0.401	33	1.468	35	12.707	5	-1.307	35
618			min	-0.058	27	-0.042	25	-0.453	3	-0.401	27	-1.468	25	1.307	20	-12.707	3
619		5	max	0.058	33	0.084	35	-0.093	35	0	35	0	35	0	35	0	35
620			min	-0.058	27	-0.084	25	-0.905	3	0	1	0	1	0	1	0	1
621	M63	1	max	0.028	25	0.084	33	0.905	5	0	35	0	35	0	35	0	35
622			min	-0.026	35	-0.084	27	0.093	20	0	1	0	1	0	1	0	1
623		2	max	0.028	25	0.042	33	0.453	5	0.401	33	1.468	35	12.707	5	-1.307	35
624			min	-0.026	35	-0.042	27	0.047	20	-0.401	27	-1.468	25	1.307	20	-12.707	3
625		3	max	0.028	25	0	35	0	35	0.535	33	1.958	35	16.943	5	-1.743	35
626			min	-0.026	35	0	1	0	1	-0.535	27	-1.958	25	1.743	20	-16.943	3
627		4	max	0.028	25	0.042	35	-0.047	35	0.401	33	1.468	35	12.707	5	-1.307	35
628			min	-0.026	35	-0.042	25	-0.453	3	-0.401	27	-1.468	25	1.307	20	-12.707	3
629		5	max	0.033	24	0.084	35	-0.093	35	0	35	0	35	0	35	0	35
630			min	-0.031	34	-0.084	25	-0.905	3	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
631	M64	1	max	-0.007	22	0.072	20	0.08	31	0	35	0	35	0	35	0	35
632			min	-0.057	3	-0.072	10	0	2	0	1	0	1	0	1	0	1
633		2	max	-0.007	22	0.036	20	0.04	31	0.344	20	1.259	22	1.126	31	0	2
634			min	-0.057	3	-0.036	10	0	2	-0.344	10	-1.259	8	0	2	-1.126	1
635		3	max	-0.007	22	0	35	0	35	0.459	20	1.678	22	1.501	31	0	2
636			min	-0.057	3	0	1	0	1	-0.459	10	-1.678	8	0	2	-1.501	1
637		4	max	-0.007	22	0.036	22	0	2	0.344	20	1.259	22	1.126	31	0	2
638			min	-0.057	3	-0.036	8	-0.04	1	-0.344	10	-1.259	8	0	2	-1.126	1
639		5	max	-0.007	22	0.072	22	0	2	0	35	0	35	0	35	0	35
640			min	-0.057	3	-0.072	8	-0.08	1	0	1	0	1	0	1	0	1
641	M65	1	max	0.95	31	0	33	0	27	0	35	0	29	0	35	0	35
642			min	-0.125	33	-0.001	31	0	33	0	29	0	35	0	1	0	1
643		2	max	0.948	31	0	33	0	27	0.002	33	0.015	31	0.002	27	0.002	33
644			min	-0.126	33	-0.001	31	0	33	-0.015	31	-0.002	33	-0.002	33	-0.002	27
645		3	max	0.946	31	0	33	0	27	0.004	33	0.03	31	0.003	27	0.003	33
646			min	-0.127	33	-0.001	31	0	33	-0.03	31	-0.004	33	-0.003	33	-0.003	27
647		4	max	0.944	31	0	33	0	27	0.006	33	0.044	31	0.005	27	0.005	33
648			min	-0.128	33	-0.001	31	0	33	-0.044	31	-0.006	33	-0.005	33	-0.005	27
649		5	max	0.942	31	0	33	0	27	0.009	33	0.059	31	0.006	27	0.006	33
650			min	-0.13	33	-0.001	31	0	33	-0.059	31	-0.009	33	-0.006	33	-0.006	27
651	M66	1	max	0.955	29	0	35	0	35	0	29	0	35	0	35	0	35
652			min	-0.123	35	-0.001	29	0	25	0	35	0	29	0	1	0	1
653		2	max	0.953	29	0	35	0	35	0.002	35	0.015	29	0.002	35	0.002	25
654			min	-0.125	35	-0.001	29	0	25	-0.015	29	-0.002	35	-0.002	25	-0.002	35
655		3	max	0.951	29	0	35	0	35	0.004	35	0.03	29	0.003	35	0.003	25
656			min	-0.126	35	-0.001	29	0	25	-0.03	29	-0.004	35	-0.003	25	-0.003	35
657		4	max	0.949	29	0	35	0	35	0.006	35	0.045	29	0.005	35	0.005	25
658			min	-0.127	35	-0.001	29	0	25	-0.045	29	-0.006	35	-0.005	25	-0.005	35
659		5	max	0.947	29	0	35	0	35	0.009	35	0.059	29	0.006	35	0.006	25
660			min	-0.129	35	-0.001	29	0	25	-0.059	29	-0.009	35	-0.006	25	-0.006	35
661	M67	1	max	2.315	5	0.001	32	0	35	0	35	0	35	0	35	0	35
662			min	0.255	32	-0.001	30	0	25	0	1	0	1	0	1	0	1
663		2	max	2.313	5	0.001	32	0	35	0.028	32	0.037	30	0.008	35	0.008	25
664			min	0.254	32	-0.001	30	0	25	-0.037	30	-0.028	32	-0.008	25	-0.008	35
665		3	max	2.311	5	0.001	32	0	35	0.055	32	0.073	30	0.016	35	0.016	25
666			min	0.253	32	-0.001	30	0	25	-0.073	30	-0.055	32	-0.016	25	-0.016	35
667		4	max	2.309	5	0.001	32	0	35	0.083	32	0.11	30	0.025	35	0.025	25
668			min	0.252	32	-0.001	30	0	25	-0.11	30	-0.083	32	-0.025	25	-0.025	35
669		5	max	2.307	5	0.001	32	0	35	0.11	32	0.146	30	0.033	35	0.033	25
670			min	0.25	32	-0.001	30	0	25	-0.146	30	-0.11	32	-0.033	25	-0.033	35
671	M68	1	max	2.315	5	0.001	32	0	35	0	35	0	35	0	35	0	35
672			min	0.255	32	-0.001	30	0	25	0	1	0	1	0	1	0	1
673		2	max	2.313	5	0.001	32	0	35	0.028	32	0.036	30	0.008	35	0.008	25
674			min	0.254	32	-0.001	30	0	25	-0.036	30	-0.028	32	-0.008	25	-0.008	35
675		3	max	2.311	5	0.001	32	0	35	0.055	32	0.073	30	0.016	35	0.016	25
676			min	0.253	32	-0.001	30	0	25	-0.073	30	-0.055	32	-0.016	25	-0.016	35
677		4	max	2.309	5	0.001	32	0	35	0.083	32	0.109	30	0.025	35	0.025	25
678			min	0.252	32	-0.001	30	0	25	-0.109	30	-0.083	32	-0.025	25	-0.025	35
679		5	max	2.307	5	0.001	32	0	35	0.11	32	0.146	30	0.033	35	0.033	25
680			min	0.25	32	-0.001	30	0	25	-0.146	30	-0.11	32	-0.033	25	-0.033	35
681	M69	1	max	1.244	31	0.005	31	0.001	29	0.04	29	0.099	31	-0.002	2	0.145	29
682			min	-0.336	33	0	2	-0.001	31	-0.099	31	-0.04	29	-0.126	29	0.002	2
683		2	max	1.245	31	0.003	31	0.001	29	0.054	29	0.051	31	0.043	31	0.053	29
684			min	-0.335	33	0	2	-0.001	31	-0.051	31	-0.054	29	-0.046	29	-0.049	31
685		3	max	1.246	31	0.001	31	0.001	29	0.051	29	0.019	31	0.061	31	0.001	2

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
686			min	-0.335	33	0	2	-0.001	31	-0.019	31	-0.051	29	-0.001	2	-0.07	31
687		4	max	1.247	31	0	2	0.001	29	0.033	29	0.002	31	0.047	31	0.001	2
688			min	-0.334	33	-0.001	29	-0.001	31	-0.002	31	-0.033	29	-0.001	2	-0.054	31
689		5	max	1.248	31	0	2	0.001	29	0	35	0	35	0	35	0	35
690			min	-0.333	33	-0.003	29	-0.001	31	0	1	0	1	0	1	0	1
691	M70	1	max	1.246	29	0.003	16	0	35	0	35	0	35	0	35	0	35
692			min	-0.337	35	0	2	0	1	0	1	0	1	0	1	0	1
693		2	max	1.245	29	0.002	16	0	35	0.023	16	0	2	0.048	16	0	2
694			min	-0.337	35	0	2	0	1	0	2	-0.023	16	0	2	-0.056	3
695		3	max	1.244	29	0	35	0	35	0.031	16	0	2	0.065	16	0	2
696			min	-0.338	35	0	1	0	1	0	2	-0.031	16	0	2	-0.074	3
697		4	max	1.243	29	0	2	0	35	0.023	16	0	2	0.048	16	0	2
698			min	-0.339	35	-0.002	29	0	1	0	2	-0.023	16	0	2	-0.056	3
699		5	max	1.242	29	0	2	0	35	0	35	0	35	0	35	0	35
700			min	-0.339	35	-0.003	29	0	1	0	1	0	1	0	1	0	1
701	M71	1	max	1.252	29	0.003	30	0	35	0	35	0	35	0	35	0	35
702			min	-0.333	35	0	2	0	1	0	1	0	1	0	1	0	1
703		2	max	1.251	29	0.002	30	0	35	0.023	30	0	2	0.048	30	0	2
704			min	-0.333	35	0	2	0	1	0	2	-0.023	30	0	2	-0.056	30
705		3	max	1.25	29	0	35	0	35	0.031	30	0	2	0.065	30	0	2
706			min	-0.334	35	0	1	0	1	0	2	-0.031	30	0	2	-0.074	30
707		4	max	1.249	29	0	2	0	35	0.023	30	0	2	0.048	30	0	2
708			min	-0.334	35	-0.002	16	0	1	0	2	-0.023	30	0	2	-0.056	30
709		5	max	1.248	29	0	2	0	35	0	35	0	35	0	35	0	35
710			min	-0.335	35	-0.003	16	0	1	0	1	0	1	0	1	0	1
711	M72	1	max	1.239	31	0.003	29	0.001	31	0	35	0	35	0	35	0	35
712			min	-0.34	33	0	2	-0.001	29	0	1	0	1	0	1	0	1
713		2	max	1.24	31	0.001	29	0.001	31	0.033	29	0.002	31	0.047	31	0.001	2
714			min	-0.339	33	0	2	-0.001	29	-0.002	31	-0.033	29	-0.001	2	-0.054	31
715		3	max	1.241	31	0	2	0.001	31	0.051	29	0.019	31	0.061	31	0.001	2
716			min	-0.338	33	-0.001	31	-0.001	29	-0.019	31	-0.051	29	-0.001	2	-0.07	31
717		4	max	1.242	31	0	2	0.001	31	0.054	29	0.051	31	0.043	31	0.053	29
718			min	-0.338	33	-0.003	31	-0.001	29	-0.051	31	-0.054	29	-0.046	29	-0.049	31
719		5	max	1.243	31	0	2	0.001	31	0.04	29	0.099	31	-0.002	2	0.145	29
720			min	-0.337	33	-0.005	31	-0.001	29	-0.099	31	-0.04	29	-0.126	29	0.002	2
721	M73	1	max	1.395	28	0.003	14	0	35	0	35	0	35	0	35	0	35
722			min	-0.537	34	0	2	0	1	0	1	0	1	0	1	0	1
723		2	max	1.394	28	0.002	14	0	35	0.023	14	0	2	0.048	14	0	2
724			min	-0.537	34	0	2	0	1	0	2	-0.023	14	0	2	-0.056	14
725		3	max	1.393	28	0	35	0	35	0.031	14	0	2	0.065	14	0	2
726			min	-0.538	34	0	1	0	1	0	2	-0.031	14	0	2	-0.074	14
727		4	max	1.392	28	0	2	0	35	0.023	14	0	2	0.048	14	0	2
728			min	-0.539	34	-0.002	24	0	1	0	2	-0.023	14	0	2	-0.056	14
729		5	max	1.391	28	0	2	0	35	0	35	0	35	0	35	0	35
730			min	-0.539	34	-0.003	24	0	1	0	1	0	1	0	1	0	1
731	M74	1	max	1.404	28	0.003	7	0	35	0	35	0	35	0	35	0	35
732			min	-0.532	34	0	2	0	1	0	1	0	1	0	1	0	1
733		2	max	1.403	28	0.002	7	0	35	0.023	7	0	2	0.048	7	0	2
734			min	-0.533	34	0	2	0	1	0	2	-0.023	7	0	2	-0.056	7
735		3	max	1.402	28	0	35	0	35	0.031	7	0	2	0.065	7	0	2
736			min	-0.534	34	0	1	0	1	0	2	-0.031	7	0	2	-0.074	7
737		4	max	1.401	28	0	2	0	35	0.023	7	0	2	0.048	7	0	2
738			min	-0.534	34	-0.002	16	0	1	0	2	-0.023	7	0	2	-0.056	7
739		5	max	1.4	28	0	2	0	35	0	35	0	35	0	35	0	35
740			min	-0.535	34	-0.003	16	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
741	M75	1	max	1.401	28	0.003	16	0	35	0	35	0	35	0	35	0	35
742			min	-0.532	34	0	2	0	1	0	1	0	1	0	1	0	1
743		2	max	1.4	28	0.002	16	0	35	0.023	5	0	2	0.048	16	0	2
744			min	-0.533	34	0	2	0	1	0	2	-0.023	3	0	2	-0.056	16
745		3	max	1.399	28	0	35	0	35	0.031	5	0	2	0.065	16	0	2
746			min	-0.534	34	0	1	0	1	0	2	-0.031	3	0	2	-0.074	16
747		4	max	1.398	28	0	2	0	35	0.023	5	0	2	0.048	16	0	2
748			min	-0.534	34	-0.002	24	0	1	0	2	-0.023	3	0	2	-0.056	16
749		5	max	1.397	28	0	2	0	35	0	35	0	35	0	35	0	35
750			min	-0.535	34	-0.003	24	0	1	0	1	0	1	0	1	0	1
751	M76	1	max	1.398	30	0.004	28	0.002	30	0	35	0	35	0	35	0	35
752			min	-0.53	32	0	2	-0.002	28	0	1	0	1	0	1	0	1
753		2	max	1.397	30	0.002	28	0.002	30	0.044	28	0.011	30	0.054	30	0.001	2
754			min	-0.53	32	0	30	-0.002	28	-0.011	30	-0.044	28	-0.001	2	-0.062	30
755		3	max	1.396	30	0	28	0.002	30	0.073	28	0.037	30	0.075	30	0.017	28
756			min	-0.531	32	-0.002	30	-0.002	28	-0.037	30	-0.073	28	-0.015	28	-0.087	30
757		4	max	1.395	30	0	2	0.002	30	0.086	28	0.079	30	0.065	30	0.081	28
758			min	-0.531	32	-0.003	30	-0.002	28	-0.079	30	-0.086	28	-0.071	28	-0.074	30
759		5	max	1.394	30	0	2	0.002	30	0.084	28	0.136	30	0.021	30	0.183	28
760			min	-0.532	32	-0.005	30	-0.002	28	-0.136	30	-0.084	28	-0.159	28	-0.025	30
761	M77	1	max	1.395	30	0.004	28	0.002	30	0	35	0	35	0	35	0	35
762			min	-0.531	32	0	2	-0.002	28	0	1	0	1	0	1	0	1
763		2	max	1.394	30	0.002	28	0.002	30	0.044	28	0.01	30	0.053	30	0.001	2
764			min	-0.532	32	0	30	-0.002	28	-0.01	30	-0.044	28	-0.001	2	-0.061	30
765		3	max	1.393	30	0	28	0.002	30	0.073	28	0.036	30	0.075	30	0.017	28
766			min	-0.532	32	-0.002	30	-0.002	28	-0.036	30	-0.073	28	-0.015	28	-0.086	30
767		4	max	1.392	30	0	2	0.002	30	0.086	28	0.077	30	0.063	30	0.081	28
768			min	-0.533	32	-0.003	30	-0.002	28	-0.077	30	-0.086	28	-0.071	28	-0.073	30
769		5	max	1.39	30	0	2	0.002	30	0.083	28	0.134	30	0.02	30	0.183	28
770			min	-0.533	32	-0.005	30	-0.002	28	-0.134	30	-0.083	28	-0.159	28	-0.023	30
771	M78	1	max	1.393	30	0.005	30	0.002	28	0.084	28	0.136	30	0.021	30	0.183	28
772			min	-0.533	32	0	2	-0.002	30	-0.136	30	-0.084	28	-0.159	28	-0.025	30
773		2	max	1.391	30	0.003	30	0.002	28	0.086	28	0.079	30	0.065	30	0.081	28
774			min	-0.534	32	0	2	-0.002	30	-0.079	30	-0.086	28	-0.071	28	-0.074	30
775		3	max	1.39	30	0.002	30	0.002	28	0.073	28	0.037	30	0.075	30	0.017	28
776			min	-0.535	32	0	28	-0.002	30	-0.037	30	-0.073	28	-0.015	28	-0.087	30
777		4	max	1.389	30	0	30	0.002	28	0.044	28	0.011	30	0.054	30	0.001	2
778			min	-0.535	32	-0.002	28	-0.002	30	-0.011	30	-0.044	28	-0.001	2	-0.062	30
779		5	max	1.388	30	0	2	0.002	28	0	35	0	35	0	35	0	35
780			min	-0.536	32	-0.004	28	-0.002	30	0	1	0	1	0	1	0	1
781	M79	1	max	1.398	28	0.003	12	0	35	0	35	0	35	0	35	0	35
782			min	-0.537	34	0	2	0	1	0	1	0	1	0	1	0	1
783		2	max	1.397	28	0.002	12	0	35	0.023	12	0	2	0.048	30	0	2
784			min	-0.537	34	0	2	0	1	0	2	-0.023	12	0	2	-0.056	12
785		3	max	1.396	28	0	35	0	35	0.031	12	0	2	0.065	30	0	2
786			min	-0.538	34	0	1	0	1	0	2	-0.031	12	0	2	-0.074	12
787		4	max	1.395	28	0	2	0	35	0.023	12	0	2	0.048	30	0	2
788			min	-0.539	34	-0.002	24	0	1	0	2	-0.023	12	0	2	-0.056	12
789		5	max	1.394	28	0	2	0	35	0	35	0	35	0	35	0	35
790			min	-0.539	34	-0.003	24	0	1	0	1	0	1	0	1	0	1
791	M80	1	max	1.389	30	0.005	30	0.002	28	0.083	28	0.134	30	0.02	30	0.183	28
792			min	-0.535	32	0	2	-0.002	30	-0.134	30	-0.083	28	-0.159	28	-0.023	30
793		2	max	1.388	30	0.003	30	0.002	28	0.086	28	0.077	30	0.063	30	0.081	28
794			min	-0.535	32	0	2	-0.002	30	-0.077	30	-0.086	28	-0.071	28	-0.073	30
795		3	max	1.387	30	0.002	30	0.002	28	0.073	28	0.036	30	0.075	30	0.017	28

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
796			min	-0.536	32	0	28	-0.002	30	-0.036	30	-0.073	28	-0.015	28	-0.086	30
797		4	max	1.386	30	0	30	0.002	28	0.044	28	0.01	30	0.053	30	0.001	2
798			min	-0.537	32	-0.002	28	-0.002	30	-0.01	30	-0.044	28	-0.001	2	-0.061	30
799		5	max	1.385	30	0	2	0.002	28	0	35	0	35	0	35	0	35
800			min	-0.537	32	-0.004	28	-0.002	30	0	1	0	1	0	1	0	1

Envelope Member Section Deflections - Service

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1	M1	1	max	0.002	35	0.003	33	0.011	24	0.002	10	NC	35	NC	35
2			min	-0.006	29	-0.006	31	-0.011	26	-0.002	8	NC	1	NC	1
3		2	max	0.003	35	0.005	33	0.013	32	0.003	10	NC	35	NC	35
4			min	-0.008	29	-0.011	31	-0.015	26	-0.003	8	NC	1	7545.199	26
5		3	max	0.003	35	0.007	33	0.016	32	0.003	10	NC	35	NC	35
6			min	-0.009	29	-0.015	31	-0.019	26	-0.003	8	NC	1	3985.483	26
7		4	max	0.004	35	0.009	33	0.019	32	0.003	10	NC	35	NC	35
8			min	-0.011	29	-0.017	31	-0.021	26	-0.004	8	NC	1	2856.075	26
9		5	max	0.004	35	0.013	33	0.023	24	0.004	10	NC	35	NC	23
10			min	-0.012	29	-0.017	31	-0.022	26	-0.004	8	NC	1	2297.833	26
11	M2	1	max	0	35	0	35	0	35	0.008	10	NC	35	NC	35
12			min	0	1	0	1	0	1	-0.008	8	NC	1	NC	1
13		2	max	0.001	35	0	33	0.002	32	0.007	10	NC	35	NC	35
14			min	-0.002	29	-0.004	31	-0.004	26	-0.007	8	NC	1	7532.358	26
15		3	max	0.001	35	0	33	0.005	32	0.005	10	NC	35	NC	35
16			min	-0.003	29	-0.006	31	-0.007	26	-0.005	8	NC	1	3978.318	26
17		4	max	0.002	35	0.001	33	0.008	32	0.004	10	NC	35	NC	35
18			min	-0.005	29	-0.007	31	-0.01	26	-0.004	8	NC	1	2850.557	26
19		5	max	0.002	35	0.003	33	0.011	24	0.002	10	NC	35	NC	23
20			min	-0.006	29	-0.006	31	-0.011	26	-0.002	8	NC	1	2265.544	24
21	M3	1	max	0.013	31	0.013	35	0.023	24	0.008	8	NC	35	NC	35
22			min	-0.004	33	-0.017	29	-0.022	34	-0.008	10	NC	1	NC	1
23		2	max	0.011	31	0.01	35	0.019	32	0.008	8	NC	35	NC	35
24			min	-0.004	33	-0.015	29	-0.02	26	-0.008	10	NC	1	8225.002	24
25		3	max	0.01	31	0.007	35	0.016	32	0.008	8	NC	35	NC	35
26			min	-0.003	33	-0.012	29	-0.017	26	-0.008	10	NC	1	4284.066	24
27		4	max	0.008	31	0.005	35	0.014	32	0.008	8	NC	35	NC	35
28			min	-0.003	33	-0.009	29	-0.014	26	-0.008	10	NC	1	2985.508	24
29		5	max	0.006	31	0.003	35	0.011	24	0.007	8	NC	35	NC	35
30			min	-0.002	33	-0.006	29	-0.011	26	-0.007	10	NC	1	2295.691	32
31	M4	1	max	0.006	31	0.003	35	0.011	24	0.007	8	NC	35	NC	35
32			min	-0.002	33	-0.006	29	-0.011	26	-0.007	10	NC	1	NC	1
33		2	max	0.005	31	0.002	35	0.008	32	0.007	8	NC	35	NC	35
34			min	-0.002	33	-0.004	29	-0.009	26	-0.007	10	NC	1	8764.122	24
35		3	max	0.003	31	0	35	0.005	32	0.006	8	NC	35	NC	35
36			min	-0.001	33	-0.004	29	-0.006	26	-0.006	10	NC	1	4325.757	24
37		4	max	0.002	31	0	35	0.003	32	0.005	8	NC	35	NC	35
38			min	-0.001	33	-0.002	29	-0.003	26	-0.005	10	NC	1	2936.782	24
39		5	max	0	35	0	35	0	35	0.004	8	NC	35	NC	23
40			min	0	1	0	1	0	1	-0.004	10	NC	1	2265.544	24
41	M5	1	max	0.023	26	0.016	25	0.002	35	0	35	NC	35	NC	35
42			min	-0.023	24	-0.015	35	-0.018	29	0	25	NC	1	NC	1
43		2	max	0.023	26	0.057	25	-0.028	35	0	35	NC	34	2082.302	35
44			min	-0.023	24	-0.056	35	-0.298	3	0	25	1455.746	25	214.183	3
45		3	max	0.023	26	0.073	25	-0.041	35	0	35	NC	34	1483.64	33
46			min	-0.023	24	-0.073	35	-0.413	3	0	25	1037.219	35	152.605	3
47		4	max	0.023	26	0.056	25	-0.03	35	0	35	NC	34	2082.302	33

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
48			min	-0.023	24	-0.056	35	-0.302	3	0	25	1455.746	33	214.183	3
49		5	max	0.023	26	0.015	25	-0.003	34	0	27	NC	35	NC	35
50			min	-0.023	24	-0.015	27	-0.024	3	0	33	NC	1	NC	1
51	M6	1	max	0.015	33	0.071	8	0.003	22	0.002	16	NC	35	NC	34
52			min	-0.015	27	-0.071	10	-0.054	16	0	22	97.672	8	142.95	16
53		2	max	0.015	25	0.057	8	0.002	22	0.001	16	NC	35	NC	34
54			min	-0.015	27	-0.056	22	-0.043	16	0	22	128.276	8	189.099	16
55		3	max	0.015	25	0.041	8	0.001	22	0.001	28	NC	35	NC	34
56			min	-0.015	27	-0.041	22	-0.033	16	0	34	190.38	8	282.747	16
57		4	max	0.015	25	0.031	24	0.001	35	0.001	28	NC	35	NC	34
58			min	-0.015	27	-0.031	34	-0.023	29	0	34	378.375	8	566.339	16
59		5	max	0.015	25	0.023	24	0.002	35	0	24	NC	35	NC	35
60			min	-0.015	27	-0.022	34	-0.014	29	0	34	NC	1	NC	1
61	M7	1	max	0.015	35	0.023	26	0.002	35	0	26	NC	35	NC	35
62			min	-0.016	25	-0.023	24	-0.018	29	0	24	NC	1	NC	1
63		2	max	0.015	35	0.023	26	-0.001	35	0	26	NC	35	NC	35
64			min	-0.015	25	-0.023	24	-0.018	29	0	24	NC	1	NC	1
65		3	max	0.015	27	0.023	26	-0.003	32	0	26	NC	35	NC	35
66			min	-0.015	25	-0.023	24	-0.017	3	0	24	NC	1	NC	1
67		4	max	0.015	27	0.023	26	-0.001	33	0	26	NC	35	NC	35
68			min	-0.015	25	-0.023	24	-0.018	31	0	24	NC	1	NC	1
69		5	max	0.015	27	0.023	26	0.002	33	0	26	NC	35	NC	35
70			min	-0.015	33	-0.023	24	-0.018	31	0	32	NC	1	NC	1
71	M8	1	max	0.022	26	0.016	25	0.004	32	0	16	NC	35	NC	35
72			min	-0.022	24	-0.016	27	-0.019	30	0	22	NC	1	NC	1
73		2	max	0.023	26	0.057	25	-0.026	32	0	27	NC	34	2082.302	34
74			min	-0.022	24	-0.057	27	-0.295	3	0	33	1455.746	27	214.183	3
75		3	max	0.023	26	0.074	25	-0.039	32	0	27	NC	34	1483.64	32
76			min	-0.023	24	-0.074	27	-0.408	3	0	33	1037.219	25	152.605	3
77		4	max	0.023	26	0.057	25	-0.027	35	0	27	NC	34	2082.302	21
78			min	-0.023	24	-0.057	35	-0.295	3	0	25	1455.746	27	214.183	3
79		5	max	0.023	26	0.016	25	0.002	35	0	35	NC	35	NC	35
80			min	-0.023	24	-0.015	35	-0.018	29	0	25	NC	1	NC	1
81	M9	1	max	0.022	34	0.016	33	0.004	34	0	16	NC	35	NC	35
82			min	-0.022	24	-0.016	27	-0.019	28	0	22	NC	1	NC	1
83		2	max	0.022	26	0.057	33	-0.028	34	0	16	NC	34	2082.302	35
84			min	-0.022	24	-0.057	27	-0.295	3	0	22	1455.746	25	214.183	3
85		3	max	0.022	26	0.074	25	-0.042	35	0	16	NC	34	1483.64	35
86			min	-0.022	24	-0.074	27	-0.408	3	0	22	1037.219	33	152.605	3
87		4	max	0.022	26	0.057	25	-0.028	32	0	16	NC	34	2082.302	33
88			min	-0.022	24	-0.057	27	-0.295	3	0	22	1455.746	25	214.183	3
89		5	max	0.022	26	0.016	25	0.004	32	0	16	NC	35	NC	35
90			min	-0.022	24	-0.016	27	-0.019	30	0	22	NC	1	NC	1
91	M10	1	max	0.023	24	0.015	27	0.002	33	0	33	NC	35	NC	35
92			min	-0.023	26	-0.015	33	-0.018	31	0	27	NC	1	NC	1
93		2	max	0.023	24	0.057	27	-0.027	33	0	25	NC	34	2082.302	21
94			min	-0.023	26	-0.057	25	-0.295	3	0	27	1455.746	27	214.183	3
95		3	max	0.022	24	0.074	27	-0.039	32	0	25	NC	34	1483.64	34
96			min	-0.023	26	-0.074	25	-0.408	3	0	35	1037.219	25	152.605	3
97		4	max	0.022	24	0.057	27	-0.026	32	0	25	NC	34	2082.302	33
98			min	-0.023	26	-0.057	25	-0.295	3	0	35	1455.746	33	214.183	3
99		5	max	0.022	24	0.016	27	0.004	32	0	29	NC	35	NC	35
100			min	-0.022	26	-0.016	25	-0.019	30	0	35	NC	1	NC	1
101	M11	1	max	0.023	24	0.015	35	-0.003	34	0	25	NC	35	NC	35
102			min	-0.023	26	-0.015	25	-0.024	3	0	35	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
103		2	max	0.023	24	0.056	27	-0.03	33	0	33	NC	34	2082.302	32
104			min	-0.023	26	-0.056	25	-0.302	3	0	27	1455.746	27	214.183	3
105		3	max	0.023	24	0.073	27	-0.041	33	0	33	NC	34	1483.64	32
106			min	-0.023	26	-0.073	25	-0.413	3	0	27	1037.219	25	152.605	3
107		4	max	0.023	24	0.056	27	-0.028	33	0	33	NC	34	2082.302	20
108			min	-0.023	26	-0.056	25	-0.298	3	0	27	1455.746	27	214.183	3
109		5	max	0.023	24	0.015	27	0.002	33	0	33	NC	35	NC	35
110			min	-0.023	26	-0.015	33	-0.018	31	0	27	NC	1	NC	1
111	M12	1	max	0.022	24	0.016	27	0.004	32	0	29	NC	35	NC	35
112			min	-0.022	26	-0.016	25	-0.019	30	0	35	NC	1	NC	1
113		2	max	0.022	24	0.057	27	-0.028	32	0	16	NC	34	2082.302	35
114			min	-0.022	26	-0.057	25	-0.295	3	0	22	1455.746	27	214.183	3
115		3	max	0.022	24	0.074	27	-0.042	33	0	16	NC	34	1483.64	20
116			min	-0.022	26	-0.074	25	-0.408	3	0	22	1037.219	27	152.605	3
117		4	max	0.022	24	0.057	27	-0.028	34	0	16	NC	34	2082.302	34
118			min	-0.022	26	-0.057	25	-0.295	3	0	22	1455.746	25	214.183	3
119		5	max	0.022	24	0.016	27	0.004	34	0	16	NC	35	NC	35
120			min	-0.022	26	-0.016	25	-0.019	28	0	22	NC	1	NC	1
121	M13	1	max	0.022	24	0.016	27	0.004	34	0	16	NC	35	NC	35
122			min	-0.022	26	-0.016	25	-0.019	28	0	22	NC	1	NC	1
123		2	max	0.022	24	0.057	27	-0.026	34	0.002	16	NC	34	2082.302	35
124			min	-0.022	26	-0.057	33	-0.294	3	0	22	1455.746	25	214.183	3
125		3	max	0.022	24	0.073	27	-0.039	34	0.004	16	NC	34	1483.64	35
126			min	-0.022	26	-0.073	33	-0.406	3	0	22	1037.219	35	152.605	3
127		4	max	0.022	24	0.056	27	-0.027	33	0.005	16	NC	34	2082.302	35
128			min	-0.022	26	-0.056	33	-0.292	3	0	22	1455.746	35	214.183	3
129		5	max	0.023	24	0.015	27	0.002	33	0.007	16	NC	35	NC	35
130			min	-0.022	26	-0.014	33	-0.014	31	-0.001	22	NC	1	NC	1
131	M14	1	max	0.016	27	0.022	26	0.004	32	0	35	NC	35	NC	35
132			min	-0.016	25	-0.022	24	-0.019	30	0	25	NC	1	NC	1
133		2	max	0.016	27	0.022	26	0.003	32	0	32	NC	35	NC	35
134			min	-0.016	25	-0.022	24	-0.02	30	0	26	NC	1	NC	1
135		3	max	0.016	27	0.022	26	0.003	32	0	32	NC	35	NC	35
136			min	-0.016	25	-0.022	24	-0.021	30	0	26	NC	1	NC	1
137		4	max	0.016	27	0.022	26	0.003	32	0	32	NC	35	NC	35
138			min	-0.016	25	-0.022	24	-0.021	30	0	26	NC	1	NC	1
139		5	max	0.016	27	0.022	26	0.004	32	0	33	NC	35	NC	35
140			min	-0.016	25	-0.022	24	-0.019	30	0	27	NC	1	NC	1
141	M15	1	max	0.015	33	0.071	8	0.003	22	0.002	16	NC	35	NC	35
142			min	-0.015	27	-0.071	10	-0.055	16	0	22	NC	1	NC	1
143		2	max	0.015	33	0.158	8	0.007	22	0.002	16	NC	35	NC	34
144			min	-0.015	27	-0.157	10	-0.117	16	0	22	553.722	8	771.207	16
145		3	max	0.015	33	0.188	8	0.008	22	0.002	16	NC	35	NC	34
146			min	-0.015	27	-0.186	10	-0.138	16	0	22	412.145	8	571.975	16
147		4	max	0.015	33	0.158	8	0.007	22	0.002	16	NC	35	NC	34
148			min	-0.015	27	-0.157	10	-0.116	16	0	22	555	8	776.657	16
149		5	max	0.015	33	0.071	8	0.003	22	0.002	16	NC	35	NC	35
150			min	-0.015	27	-0.071	10	-0.054	16	0	22	NC	1	NC	1
151	M16	1	max	0.016	27	0.022	34	0.004	34	0	24	NC	35	NC	35
152			min	-0.016	33	-0.022	24	-0.019	28	0	34	NC	1	NC	1
153		2	max	0.016	27	0.022	34	0.003	34	0	24	NC	35	NC	35
154			min	-0.016	25	-0.022	24	-0.021	28	0	26	NC	1	NC	1
155		3	max	0.016	27	0.022	26	0.003	34	0	24	NC	35	NC	35
156			min	-0.016	25	-0.022	24	-0.021	28	0	26	NC	1	NC	1
157		4	max	0.016	27	0.022	26	0.003	34	0	24	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
158			min	-0.016	25	-0.022	24	-0.021	28	0	26	NC	1	NC	1
159		5	max	0.016	27	0.022	26	0.004	34	0	24	NC	35	NC	35
160			min	-0.016	25	-0.022	24	-0.019	28	0	26	NC	1	NC	1
161	M17	1	max	0.014	33	0.023	24	0.002	33	0	24	NC	35	NC	35
162			min	-0.015	27	-0.022	26	-0.014	31	0	34	NC	1	NC	1
163		2	max	0.015	33	0.031	24	0.001	33	0.001	28	NC	35	NC	35
164			min	-0.015	27	-0.031	26	-0.023	31	0	34	NC	1	NC	1
165		3	max	0.015	33	0.041	8	0.001	22	0.001	28	NC	35	NC	35
166			min	-0.015	27	-0.041	10	-0.034	16	0	34	7697.768	10	NC	1
167		4	max	0.015	33	0.056	8	0.002	22	0.001	16	NC	35	NC	35
168			min	-0.015	27	-0.056	10	-0.044	16	0	22	8807.854	10	NC	1
169		5	max	0.015	33	0.071	8	0.003	22	0.002	16	NC	35	NC	35
170			min	-0.015	27	-0.071	10	-0.055	16	0	22	NC	1	NC	1
171	M18	1	max	0.015	27	0.023	26	-0.003	34	0	32	NC	35	NC	35
172			min	-0.015	25	-0.023	24	-0.024	3	0	30	NC	1	NC	1
173		2	max	0.015	35	0.023	26	-0.004	34	0	32	NC	35	NC	35
174			min	-0.015	25	-0.023	24	-0.026	3	0	30	NC	1	NC	1
175		3	max	0.015	35	0.023	26	-0.004	34	0	32	NC	35	NC	35
176			min	-0.015	25	-0.023	24	-0.026	3	0	30	NC	1	NC	1
177		4	max	0.015	35	0.023	26	-0.004	34	0	32	NC	35	NC	35
178			min	-0.015	25	-0.023	24	-0.026	3	0	30	NC	1	NC	1
179		5	max	0.015	35	0.023	26	-0.003	34	0	32	NC	35	NC	35
180			min	-0.015	25	-0.023	24	-0.024	3	0	30	NC	1	NC	1
181	M19	1	max	0.022	34	0.015	25	0.002	35	0.007	16	NC	35	NC	35
182			min	-0.023	24	-0.015	27	-0.014	29	-0.001	22	NC	1	NC	1
183		2	max	0.022	34	0.056	25	-0.027	35	0.005	16	NC	34	2082.302	21
184			min	-0.023	24	-0.056	27	-0.293	3	0	22	1455.746	25	214.183	3
185		3	max	0.022	34	0.073	25	-0.039	34	0.004	16	NC	34	1483.64	33
186			min	-0.023	24	-0.073	27	-0.407	3	0	22	1037.219	25	152.605	3
187		4	max	0.022	34	0.057	25	-0.026	34	0.002	16	NC	34	2082.302	33
188			min	-0.022	24	-0.057	27	-0.294	3	0	22	1455.746	25	214.183	3
189		5	max	0.022	34	0.016	33	0.004	34	0	16	NC	35	NC	35
190			min	-0.022	24	-0.016	27	-0.019	28	0	22	NC	1	NC	1
191	M20	1	max	0	35	0	35	0	35	0	25	NC	35	NC	35
192			min	0	1	0	1	0	1	0	27	NC	1	NC	1
193		2	max	0	20	0.019	22	0.002	33	0	25	NC	35	NC	35
194			min	-0.003	3	-0.023	16	-0.002	27	0	27	NC	1	NC	1
195		3	max	-0.001	20	0.038	22	0.004	33	0	25	NC	35	NC	35
196			min	-0.006	3	-0.047	16	-0.004	27	0	27	NC	1	NC	1
197		4	max	-0.001	20	0.057	22	0.006	33	0	25	NC	35	NC	35
198			min	-0.009	3	-0.07	16	-0.006	27	0	27	NC	1	NC	1
199		5	max	-0.001	20	0.076	22	0.008	33	0	25	NC	35	NC	35
200			min	-0.012	3	-0.093	16	-0.008	27	0	27	NC	1	NC	1
201	M21	1	max	0	35	0	35	0	35	0	33	NC	35	NC	35
202			min	0	1	0	1	0	1	0	27	NC	1	NC	1
203		2	max	0	20	0.019	22	0.002	25	0	33	NC	35	NC	35
204			min	-0.003	3	-0.023	16	-0.002	27	0	27	NC	1	NC	1
205		3	max	-0.001	20	0.038	22	0.004	25	0	33	NC	35	NC	35
206			min	-0.006	3	-0.047	16	-0.004	27	0	27	NC	1	NC	1
207		4	max	-0.001	20	0.057	22	0.006	25	0	33	NC	35	NC	35
208			min	-0.009	3	-0.07	16	-0.006	27	0	27	NC	1	NC	1
209		5	max	-0.001	20	0.076	22	0.008	25	0	33	NC	35	NC	35
210			min	-0.012	3	-0.094	16	-0.008	27	0	27	NC	1	NC	1
211	M22	1	max	0	35	0	35	0	35	0	29	NC	35	NC	35
212			min	0	1	0	1	0	1	0	35	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
213		2	max	0.001	34	0.005	34	0.006	25	0	29	NC	35	NC	35
214			min	-0.005	28	-0.005	24	-0.006	35	0	35	NC	1	NC	1
215		3	max	0.002	34	0.01	34	0.012	25	0	29	NC	35	NC	35
216			min	-0.009	28	-0.01	24	-0.011	35	0	35	8089.808	24	NC	1
217		4	max	0.003	34	0.016	34	0.015	25	0	29	NC	35	NC	35
218			min	-0.014	28	-0.016	24	-0.014	35	0	35	5223.606	24	9470.235	31
219		5	max	0.004	34	0.022	34	0.016	33	0	29	NC	35	NC	35
220			min	-0.019	28	-0.022	24	-0.016	27	0	35	3752.498	24	6861.575	31
221	M23	1	max	0	35	0	35	0	35	0	27	NC	35	NC	35
222			min	0	1	0	1	0	1	0	33	NC	1	NC	1
223		2	max	0.001	32	0.007	26	0.006	25	0	27	NC	35	NC	35
224			min	-0.005	30	-0.007	24	-0.006	27	0	33	NC	1	NC	1
225		3	max	0.002	32	0.014	26	0.011	25	0	27	NC	35	NC	35
226			min	-0.009	30	-0.014	24	-0.011	27	0	33	NC	1	NC	1
227		4	max	0.003	32	0.019	26	0.015	25	0	27	NC	35	NC	35
228			min	-0.014	30	-0.019	24	-0.015	27	0	33	NC	1	NC	1
229		5	max	0.004	32	0.022	26	0.016	25	0	27	NC	35	NC	35
230			min	-0.019	30	-0.022	24	-0.016	27	0	33	NC	1	NC	1
231	M24	1	max	0	35	0	35	0	35	0.005	10	NC	35	NC	35
232			min	0	1	0	1	0	1	-0.005	8	NC	1	NC	1
233		2	max	0.001	33	0.013	34	0.005	22	0.005	10	NC	35	NC	34
234			min	-0.003	31	-0.013	24	-0.068	16	-0.005	8	NC	1	1241.846	16
235		3	max	0.001	33	0.023	34	0.008	22	0.005	10	NC	35	NC	34
236			min	-0.007	31	-0.023	24	-0.108	16	-0.005	8	6928.834	24	776.154	16
237		4	max	0.002	33	0.027	34	0.007	22	0.005	10	NC	35	NC	34
238			min	-0.01	31	-0.027	24	-0.095	16	-0.005	8	7946.753	24	887.033	16
239		5	max	0.002	33	0.022	26	0.014	33	0.005	10	NC	35	NC	35
240			min	-0.014	31	-0.023	24	-0.015	27	-0.005	8	NC	1	5794.093	33
241	M25	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
242			min	0	1	0	1	0	1	0	25	NC	1	NC	1
243		2	max	0.001	32	0.007	26	0.006	25	0	35	NC	35	NC	35
244			min	-0.005	30	-0.007	24	-0.006	27	0	25	NC	1	NC	1
245		3	max	0.002	32	0.014	26	0.011	25	0	35	NC	35	NC	35
246			min	-0.009	30	-0.014	24	-0.011	27	0	25	NC	1	NC	1
247		4	max	0.003	32	0.019	26	0.015	25	0	35	NC	35	NC	35
248			min	-0.014	30	-0.019	24	-0.015	27	0	25	NC	1	NC	1
249		5	max	0.004	32	0.022	26	0.016	25	0	35	NC	35	NC	35
250			min	-0.019	30	-0.022	24	-0.016	27	0	25	NC	1	NC	1
251	M26	1	max	0	35	0	35	0	35	0.01	10	NC	35	NC	35
252			min	0	1	0	1	0	1	-0.01	8	NC	1	NC	1
253		2	max	0.001	35	0.013	34	0.068	16	0.01	10	NC	35	NC	35
254			min	-0.003	29	-0.013	24	-0.005	22	-0.01	8	NC	1	1243.314	16
255		3	max	0.001	35	0.023	34	0.108	16	0.01	10	NC	35	NC	35
256			min	-0.007	29	-0.024	24	-0.008	22	-0.01	8	6883.236	24	777.071	16
257		4	max	0.002	35	0.027	34	0.095	16	0.01	10	NC	35	NC	35
258			min	-0.01	29	-0.028	24	-0.007	22	-0.01	8	7915.719	24	888.082	16
259		5	max	0.002	35	0.022	34	0.015	25	0.01	10	NC	35	NC	34
260			min	-0.014	29	-0.023	24	-0.015	27	-0.01	8	NC	1	5758.636	35
261	M27	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
262			min	0	1	0	1	0	1	0	1	NC	1	NC	1
263		2	max	-0.001	34	0.006	34	0.005	25	0	35	NC	35	NC	35
264			min	-0.006	3	-0.007	28	-0.005	35	0	1	NC	1	NC	1
265		3	max	-0.001	34	0.011	34	0.01	25	0	35	NC	35	NC	35
266			min	-0.012	3	-0.013	28	-0.01	35	0	1	7565.247	34	NC	1
267		4	max	-0.002	34	0.017	34	0.013	25	0	35	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
268			min	-0.018	3	-0.018	24	-0.013	35	0	1	4968.01	34	NC	1
269		5	max	-0.003	34	0.023	26	0.015	25	0	35	NC	35	NC	35
270			min	-0.024	3	-0.023	24	-0.015	35	0	1	3642.964	26	NC	1
271	M28	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
272			min	0	1	0	1	0	1	0	1	NC	1	NC	1
273		2	max	-0.001	34	0.006	34	0.005	25	0	35	NC	35	NC	35
274			min	-0.006	3	-0.007	28	-0.005	27	0	1	NC	1	NC	1
275		3	max	-0.001	34	0.011	34	0.01	25	0	35	NC	35	NC	35
276			min	-0.012	3	-0.013	28	-0.01	27	0	1	7552.422	34	NC	1
277		4	max	-0.002	34	0.017	34	0.013	25	0	35	NC	35	NC	35
278			min	-0.018	3	-0.018	24	-0.013	27	0	1	4963.248	34	NC	1
279		5	max	-0.003	34	0.023	26	0.015	25	0	35	NC	35	NC	35
280			min	-0.024	3	-0.023	24	-0.015	27	0	1	3643.532	26	NC	1
281	M29	1	max	0	35	0	35	0	35	0	24	NC	35	NC	35
282			min	0	1	0	1	0	1	0	26	NC	1	NC	1
283		2	max	0.001	33	0.011	26	0.004	33	0	24	NC	35	NC	35
284			min	-0.004	31	-0.011	24	-0.004	27	0	26	NC	1	NC	1
285		3	max	0.001	33	0.02	26	0.008	33	0	24	NC	35	NC	35
286			min	-0.009	31	-0.02	24	-0.008	27	0	26	9843.282	26	NC	1
287		4	max	0.002	33	0.025	26	0.012	33	0	24	NC	35	NC	35
288			min	-0.013	31	-0.024	24	-0.012	27	0	26	NC	1	NC	1
289		5	max	0.002	33	0.023	26	0.015	33	0	24	NC	35	NC	35
290			min	-0.018	31	-0.023	24	-0.015	27	0	26	NC	1	NC	1
291	M30	1	max	0	35	0	35	0	35	0	33	NC	35	NC	35
292			min	0	1	0	1	0	1	0	31	NC	1	NC	1
293		2	max	0.001	34	0.005	26	0.006	33	0	33	NC	35	NC	35
294			min	-0.005	28	-0.005	24	-0.006	27	0	31	NC	1	NC	1
295		3	max	0.002	34	0.01	26	0.01	33	0	33	NC	35	NC	35
296			min	-0.009	28	-0.01	24	-0.012	27	0	31	8097.051	24	NC	1
297		4	max	0.003	34	0.016	26	0.014	33	0	33	NC	35	NC	35
298			min	-0.014	28	-0.016	24	-0.015	27	0	31	5232.515	24	9708.377	29
299		5	max	0.004	34	0.022	26	0.016	25	0	33	NC	35	NC	35
300			min	-0.019	28	-0.022	24	-0.016	27	0	31	3762.855	24	6968.41	29
301	M31	1	max	0	35	0	35	0	35	0	26	NC	35	NC	35
302			min	0	1	0	1	0	1	0	24	NC	1	NC	1
303		2	max	0.001	35	0.011	26	0.004	25	0	26	NC	35	NC	35
304			min	-0.004	29	-0.011	24	-0.004	35	0	24	NC	1	NC	1
305		3	max	0.001	35	0.02	26	0.009	25	0	26	NC	35	NC	35
306			min	-0.009	29	-0.02	24	-0.008	35	0	24	9871.413	26	NC	1
307		4	max	0.002	35	0.025	26	0.012	25	0	26	NC	35	NC	35
308			min	-0.013	29	-0.024	24	-0.012	35	0	24	NC	1	NC	1
309		5	max	0.002	35	0.023	26	0.016	25	0	26	NC	35	NC	35
310			min	-0.018	29	-0.023	24	-0.015	35	0	24	NC	1	NC	1
311	M32	1	max	0.078	16	0.057	8	0.141	25	0	35	NC	35	NC	35
312			min	-0.055	22	-0.053	22	-0.141	27	-0.002	3	NC	1	NC	1
313		2	max	0.078	16	0.057	8	0.154	25	0	35	NC	35	NC	34
314			min	-0.055	22	-0.054	22	-0.154	27	-0.002	3	NC	1	2191.243	31
315		3	max	0.078	16	0.058	8	0.18	25	0	35	NC	35	NC	34
316			min	-0.055	22	-0.054	22	-0.181	27	-0.002	3	NC	1	8083.091	27
317		4	max	0.078	16	0.058	8	0.205	25	0	35	NC	35	NC	34
318			min	-0.055	22	-0.054	22	-0.206	27	-0.002	3	NC	1	1777.197	31
319		5	max	0.078	16	0.058	8	0.216	25	0	35	NC	35	NC	35
320			min	-0.055	22	-0.054	22	-0.216	27	-0.002	3	NC	1	NC	1
321	M33	1	max	0.077	16	0.034	20	0.015	33	0.004	20	NC	35	NC	35
322			min	-0.055	22	-0.063	18	-0.015	27	-0.008	18	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
323		2	max	0.077	16	0.035	20	0.098	25	0.003	20	NC	35	NC	34
324			min	-0.055	22	-0.064	18	-0.1	27	-0.006	18	NC	1	536.938	27
325		3	max	0.077	16	0.037	20	0.17	25	0.002	20	NC	35	NC	34
326			min	-0.055	22	-0.064	18	-0.171	27	-0.005	18	NC	1	345.077	27
327		4	max	0.078	16	0.038	20	0.218	25	0.001	20	NC	35	NC	34
328			min	-0.055	22	-0.063	18	-0.219	27	-0.003	18	NC	1	409.744	27
329		5	max	0.078	16	0.04	20	0.235	25	0	20	NC	35	NC	35
330			min	-0.055	22	-0.063	18	-0.236	27	-0.002	3	NC	1	NC	1
331	M34	1	max	0.078	16	0.039	20	0.235	25	0.002	5	NC	35	NC	35
332			min	-0.055	22	-0.063	18	-0.236	27	0	20	NC	1	NC	1
333		2	max	0.078	16	0.041	20	0.234	25	0.002	5	NC	35	NC	34
334			min	-0.055	22	-0.062	18	-0.235	27	0	20	NC	1	4404.617	31
335		3	max	0.078	16	0.042	20	0.231	25	0.002	5	NC	35	NC	34
336			min	-0.055	22	-0.06	18	-0.231	27	0	20	NC	1	7817.661	27
337		4	max	0.078	16	0.044	20	0.226	25	0.002	5	NC	35	NC	35
338			min	-0.055	22	-0.057	18	-0.225	27	0	20	NC	1	6279.941	3
339		5	max	0.078	16	0.045	20	0.222	25	0.002	5	NC	35	NC	35
340			min	-0.055	22	-0.054	18	-0.222	27	0	35	NC	1	NC	1
341	M35	1	max	0.078	16	0.04	20	0.235	25	0	20	NC	35	NC	35
342			min	-0.055	22	-0.063	18	-0.236	27	-0.002	3	NC	1	NC	1
343		2	max	0.078	16	0.041	20	0.235	25	0	20	NC	35	NC	34
344			min	-0.055	22	-0.061	18	-0.234	27	-0.002	3	NC	1	4399.361	29
345		3	max	0.078	16	0.042	20	0.231	25	0	20	NC	35	NC	34
346			min	-0.055	22	-0.059	18	-0.231	27	-0.002	3	NC	1	7815.731	25
347		4	max	0.078	16	0.044	20	0.225	25	0	20	NC	35	NC	35
348			min	-0.055	22	-0.057	18	-0.226	27	-0.002	3	NC	1	6280.35	3
349		5	max	0.078	16	0.045	20	0.222	25	0	33	NC	35	NC	35
350			min	-0.055	22	-0.054	18	-0.222	27	-0.002	3	NC	1	NC	1
351	M36	1	max	0.078	16	0.045	20	0.222	25	0	33	NC	35	NC	35
352			min	-0.055	22	-0.054	18	-0.222	27	-0.002	3	NC	1	NC	1
353		2	max	0.078	16	0.047	20	0.211	25	0	33	NC	35	NC	34
354			min	-0.055	22	-0.054	10	-0.211	27	-0.002	3	NC	1	1909.406	25
355		3	max	0.078	16	0.048	20	0.186	25	0	33	NC	35	NC	34
356			min	-0.055	22	-0.053	10	-0.186	27	-0.002	3	NC	1	8064.622	25
357		4	max	0.078	16	0.05	20	0.159	25	0	33	NC	35	NC	34
358			min	-0.055	22	-0.053	10	-0.16	27	-0.002	3	NC	1	2522.355	29
359		5	max	0.078	16	0.051	20	0.146	25	0	33	NC	35	NC	35
360			min	-0.055	22	-0.052	10	-0.147	27	-0.002	3	NC	1	NC	1
361	M37	1	max	0.078	16	0.045	20	0.222	25	0.002	5	NC	35	NC	35
362			min	-0.055	22	-0.054	18	-0.222	27	0	35	NC	1	NC	1
363		2	max	0.078	16	0.047	20	0.211	25	0.002	5	NC	35	NC	34
364			min	-0.055	22	-0.054	10	-0.212	27	0	35	NC	1	1909.501	27
365		3	max	0.078	16	0.048	20	0.186	25	0.002	5	NC	35	NC	34
366			min	-0.055	22	-0.053	10	-0.186	27	0	35	NC	1	8064.811	25
367		4	max	0.078	16	0.05	20	0.16	25	0.002	5	NC	35	NC	34
368			min	-0.055	22	-0.053	10	-0.159	27	0	35	NC	1	2521.994	31
369		5	max	0.078	16	0.051	20	0.146	25	0.002	5	NC	35	NC	35
370			min	-0.055	22	-0.052	10	-0.147	27	0	35	NC	1	NC	1
371	M38	1	max	0.078	16	0.051	20	0.146	25	0	33	NC	35	NC	34
372			min	-0.055	22	-0.052	10	-0.147	27	-0.002	3	1418.422	30	114.938	27
373		2	max	0.078	16	0.053	8	0.126	25	0	21	NC	35	NC	34
374			min	-0.055	22	-0.052	22	-0.125	27	-0.002	3	2181.784	30	134.996	25
375		3	max	0.077	16	0.054	8	0.079	25	0	35	NC	35	NC	34
376			min	-0.055	22	-0.052	22	-0.079	27	-0.002	3	1842.295	16	224.417	27
377		4	max	0.077	16	0.055	8	0.03	25	0	35	NC	35	NC	34

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
378			min	-0.055	22	-0.052	22	-0.031	27	-0.002	3	1354.532	16	685.861	27
379		5	max	0.077	16	0.056	8	0.008	33	0	35	NC	35	NC	35
380			min	-0.055	22	-0.052	22	-0.008	27	-0.002	3	1165.876	16	NC	1
381	M39	1	max	0.078	16	0.051	20	0.146	25	0.002	5	NC	35	NC	34
382			min	-0.055	22	-0.052	10	-0.147	27	0	35	1400.501	30	114.933	27
383		2	max	0.078	16	0.053	8	0.125	25	0.002	5	NC	35	NC	34
384			min	-0.055	22	-0.052	22	-0.126	27	0	23	2152.277	30	134.974	27
385		3	max	0.078	16	0.054	8	0.079	25	0.002	5	NC	34	NC	34
386			min	-0.055	22	-0.052	22	-0.079	27	0	33	1819.434	16	224.406	27
387		4	max	0.078	16	0.055	8	0.031	25	0.002	5	NC	34	NC	34
388			min	-0.055	22	-0.052	22	-0.03	27	0	33	1337.155	16	686.048	25
389		5	max	0.077	16	0.056	8	0.008	25	0.002	5	NC	34	NC	35
390			min	-0.055	22	-0.052	22	-0.008	27	0	33	1149.922	16	NC	1
391	M40	1	max	0.077	16	0.056	8	0.008	33	0	35	NC	35	NC	35
392			min	-0.055	22	-0.052	22	-0.008	27	-0.002	3	7725.364	31	NC	1
393		2	max	0.077	16	0.057	8	0.03	25	0	35	NC	35	NC	34
394			min	-0.055	22	-0.052	22	-0.029	27	-0.002	3	7711.445	31	721.043	25
395		3	max	0.078	16	0.057	8	0.076	25	0	35	NC	35	NC	34
396			min	-0.055	22	-0.053	22	-0.076	27	-0.002	3	NC	1	232.719	25
397		4	max	0.078	16	0.057	8	0.121	25	0	35	NC	35	NC	34
398			min	-0.055	22	-0.053	22	-0.122	27	-0.002	3	8222.55	18	139.654	27
399		5	max	0.078	16	0.057	8	0.141	25	0	35	NC	35	NC	34
400			min	-0.055	22	-0.053	22	-0.141	27	-0.002	3	5443.123	18	119.297	25
401	M41	1	max	0.078	16	0.06	16	0.229	25	0.003	5	NC	35	NC	34
402			min	-0.055	22	-0.052	22	-0.229	27	0	33	1423.215	18	69.605	25
403		2	max	0.078	16	0.062	16	0.21	25	0.003	5	NC	35	NC	34
404			min	-0.055	22	-0.051	22	-0.212	27	0	33	1941.463	18	75.373	27
405		3	max	0.078	16	0.064	16	0.159	25	0.003	5	NC	35	NC	34
406			min	-0.055	22	-0.05	22	-0.161	27	0	33	2776.796	3	98.753	27
407		4	max	0.078	16	0.066	16	0.086	25	0.003	5	NC	35	NC	34
408			min	-0.055	22	-0.049	22	-0.087	27	0	33	1907.506	3	182.818	27
409		5	max	0.078	16	0.068	16	0	35	0.003	5	NC	35	NC	35
410			min	-0.055	22	-0.048	22	0	1	0	33	1527.885	3	NC	1
411	M42	1	max	0.078	16	0.059	16	0.229	25	0	35	NC	35	NC	34
412			min	-0.055	22	-0.052	22	-0.229	27	-0.003	3	1414.169	18	69.605	25
413		2	max	0.078	16	0.062	16	0.212	25	0	35	NC	35	NC	34
414			min	-0.055	22	-0.051	22	-0.21	27	-0.003	3	1927.875	18	75.372	25
415		3	max	0.078	16	0.064	16	0.161	25	0	35	NC	35	NC	34
416			min	-0.055	22	-0.05	22	-0.159	27	-0.003	3	2757.767	3	98.75	25
417		4	max	0.078	16	0.066	16	0.087	25	0	35	NC	35	NC	34
418			min	-0.055	22	-0.049	22	-0.086	27	-0.003	3	1892.836	3	182.812	25
419		5	max	0.078	16	0.068	16	0	35	0	35	NC	34	NC	35
420			min	-0.055	22	-0.048	22	0	1	-0.003	3	1514.325	3	NC	1
421	M43	1	max	0.078	16	0.058	8	0.216	25	0.002	5	NC	35	NC	35
422			min	-0.055	22	-0.054	22	-0.216	27	0	33	NC	1	NC	1
423		2	max	0.078	16	0.058	8	0.218	25	0.002	5	NC	35	NC	35
424			min	-0.055	22	-0.054	22	-0.219	27	0	33	NC	1	6225.382	29
425		3	max	0.078	16	0.058	8	0.225	25	0.002	5	NC	35	NC	34
426			min	-0.055	22	-0.053	22	-0.224	27	0	33	NC	1	5601.579	29
427		4	max	0.078	16	0.059	8	0.229	25	0.003	5	NC	35	NC	34
428			min	-0.055	22	-0.053	22	-0.228	27	0	33	NC	1	2528.525	29
429		5	max	0.078	16	0.06	16	0.229	25	0.003	5	NC	35	NC	35
430			min	-0.055	22	-0.052	22	-0.229	27	0	33	NC	1	NC	1
431	M44	1	max	0.078	16	0.058	8	0.216	25	0	35	NC	35	NC	35
432			min	-0.055	22	-0.054	22	-0.216	27	-0.002	3	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
433		2	max	0.078	16	0.058	8	0.219	25	0	35	NC	35	NC	35
434			min	-0.055	22	-0.054	22	-0.218	27	-0.002	3	NC	1	6227.496	31
435		3	max	0.078	16	0.058	8	0.224	25	0	35	NC	35	NC	34
436			min	-0.055	22	-0.053	22	-0.225	27	-0.002	3	NC	1	5602.892	31
437		4	max	0.078	16	0.059	8	0.228	25	0	35	NC	35	NC	34
438			min	-0.055	22	-0.053	22	-0.229	27	-0.003	3	NC	1	2529.275	31
439		5	max	0.078	16	0.059	16	0.229	25	0	35	NC	35	NC	35
440			min	-0.055	22	-0.052	22	-0.229	27	-0.003	3	NC	1	NC	1
441	M45	1	max	0.078	16	0.057	8	0.141	25	0.002	5	NC	35	NC	35
442			min	-0.055	22	-0.053	22	-0.141	27	0	33	NC	1	NC	1
443		2	max	0.078	16	0.057	8	0.154	25	0.002	5	NC	35	NC	34
444			min	-0.055	22	-0.054	22	-0.155	27	0	33	NC	1	2191.858	29
445		3	max	0.078	16	0.058	8	0.18	25	0.002	5	NC	35	NC	34
446			min	-0.055	22	-0.054	22	-0.181	27	0	33	NC	1	8082.389	25
447		4	max	0.078	16	0.058	8	0.206	25	0.002	5	NC	35	NC	34
448			min	-0.055	22	-0.054	22	-0.205	27	0	33	NC	1	1777.415	29
449		5	max	0.078	16	0.058	8	0.216	25	0.002	5	NC	35	NC	35
450			min	-0.055	22	-0.054	22	-0.216	27	0	33	NC	1	NC	1
451	M46	1	max	0.077	16	0.056	8	0.008	25	0.002	5	NC	35	NC	35
452			min	-0.055	22	-0.052	22	-0.008	27	0	33	8037.977	29	NC	1
453		2	max	0.078	16	0.057	8	0.029	25	0.002	5	NC	35	NC	34
454			min	-0.055	22	-0.052	22	-0.03	27	0	33	7920.831	29	721.22	27
455		3	max	0.078	16	0.057	8	0.076	25	0.002	5	NC	35	NC	34
456			min	-0.055	22	-0.053	22	-0.076	27	0	33	NC	1	232.728	25
457		4	max	0.078	16	0.057	8	0.122	25	0.002	5	NC	35	NC	34
458			min	-0.055	22	-0.053	22	-0.121	27	0	33	8475.31	18	139.637	25
459		5	max	0.078	16	0.057	8	0.141	25	0.002	5	NC	35	NC	34
460			min	-0.055	22	-0.053	22	-0.141	27	0	33	5577.797	18	119.302	25
461	M47	1	max	0.078	16	0.034	20	0.015	33	0.008	18	NC	35	NC	35
462			min	-0.055	22	-0.064	18	-0.015	27	-0.004	20	NC	1	NC	1
463		2	max	0.078	16	0.035	20	0.099	25	0.006	18	NC	35	NC	34
464			min	-0.055	22	-0.064	18	-0.099	27	-0.003	20	NC	1	536.947	25
465		3	max	0.078	16	0.036	20	0.171	25	0.005	18	NC	35	NC	34
466			min	-0.055	22	-0.064	18	-0.17	27	-0.002	20	NC	1	345.082	25
467		4	max	0.078	16	0.038	20	0.219	25	0.003	18	NC	35	NC	34
468			min	-0.055	22	-0.064	18	-0.218	27	-0.001	20	NC	1	409.751	25
469		5	max	0.078	16	0.039	20	0.235	25	0.002	5	NC	35	NC	35
470			min	-0.055	22	-0.063	18	-0.236	27	0	20	NC	1	NC	1
471	M48	1	max	0.229	27	0.098	16	0.009	18	0	20	NC	35	NC	35
472			min	-0.229	25	-0.076	22	0	20	-0.001	18	NC	1	NC	1
473		2	max	0.229	27	0.098	16	0.05	5	0	20	NC	35	NC	35
474			min	-0.229	25	-0.076	22	0.004	20	-0.001	18	NC	1	1150.666	3
475		3	max	0.229	27	0.098	16	0.067	5	0	20	NC	35	9345.493	22
476			min	-0.229	25	-0.076	22	0.005	20	-0.001	18	NC	1	818.825	3
477		4	max	0.229	27	0.098	16	0.05	5	0	20	NC	35	NC	35
478			min	-0.229	25	-0.076	22	0.004	20	-0.001	18	NC	1	1150.663	3
479		5	max	0.229	27	0.098	16	0.009	18	0	20	NC	35	NC	35
480			min	-0.229	25	-0.076	22	0	20	-0.001	18	NC	1	NC	1
481	M49	1	max	0.216	27	0.094	16	0.014	18	0	20	NC	35	NC	35
482			min	-0.216	25	-0.077	22	0	20	0	18	NC	1	NC	1
483		2	max	0.216	27	0.094	16	0.042	5	0	20	NC	35	NC	35
484			min	-0.216	25	-0.077	22	0.003	20	0	18	NC	1	1710.196	3
485		3	max	0.216	27	0.094	16	0.053	5	0	20	NC	35	NC	35
486			min	-0.216	25	-0.077	22	0.004	20	0	18	NC	1	1216.559	3
487		4	max	0.216	27	0.094	16	0.042	5	0	20	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
488			min	-0.216	25	-0.077	22	0.003	20	0	18	NC	1	1710.193	3
489		5	max	0.216	27	0.094	16	0.014	18	0	20	NC	35	NC	35
490			min	-0.216	25	-0.077	22	0	20	0	18	NC	1	NC	1
491	M50	1	max	0.141	27	0.093	16	0.014	18	0	18	NC	35	NC	35
492			min	-0.141	25	-0.077	22	0.001	20	0	20	NC	1	NC	1
493		2	max	0.141	27	0.093	16	0.042	5	0	18	NC	35	NC	35
494			min	-0.141	25	-0.077	22	0.003	20	0	20	NC	1	1711.067	3
495		3	max	0.141	27	0.093	16	0.053	5	0	18	NC	35	NC	35
496			min	-0.141	25	-0.077	22	0.004	20	0	20	NC	1	1217.147	3
497		4	max	0.141	27	0.093	16	0.041	5	0	18	NC	35	NC	35
498			min	-0.141	25	-0.077	22	0.003	20	0	20	NC	1	1711.065	3
499		5	max	0.141	27	0.093	16	0.014	18	0	18	NC	35	NC	35
500			min	-0.141	25	-0.077	22	0	20	0	20	NC	1	NC	1
501	M51	1	max	0.008	27	0.093	16	0.012	5	0	22	NC	35	NC	35
502			min	-0.008	33	-0.076	22	0.001	20	0	16	NC	1	NC	1
503		2	max	0.008	27	0.093	16	0.04	5	0	22	NC	35	NC	35
504			min	-0.008	33	-0.076	22	0.004	20	0	16	NC	1	1711.486	3
505		3	max	0.008	27	0.093	16	0.051	5	0	22	NC	35	NC	35
506			min	-0.008	25	-0.076	22	0.005	20	0	16	NC	1	1217.546	3
507		4	max	0.008	27	0.093	16	0.04	5	0	22	NC	35	NC	35
508			min	-0.008	25	-0.076	22	0.004	20	0	16	NC	1	1711.829	3
509		5	max	0.008	27	0.094	16	0.012	5	0	22	NC	35	NC	35
510			min	-0.008	25	-0.076	22	0.001	20	0	16	NC	1	NC	1
511	M52	1	max	0.147	27	0.085	8	0.022	5	0	22	NC	35	NC	35
512			min	-0.146	25	-0.076	22	0.003	22	-0.001	16	NC	1	NC	1
513		2	max	0.147	27	0.085	8	0.05	5	0	22	NC	35	NC	35
514			min	-0.146	25	-0.076	22	0.005	22	-0.001	16	NC	1	1711.095	3
515		3	max	0.147	27	0.085	8	0.061	5	0	22	NC	35	NC	35
516			min	-0.146	25	-0.076	22	0.006	22	-0.001	16	NC	1	1217.167	3
517		4	max	0.147	27	0.085	8	0.05	5	0	22	NC	35	NC	35
518			min	-0.146	25	-0.076	22	0.005	22	-0.001	16	NC	1	1711.098	3
519		5	max	0.147	27	0.085	8	0.022	5	0	22	NC	35	NC	35
520			min	-0.146	25	-0.076	22	0.003	22	-0.001	16	NC	1	NC	1
521	M53	1	max	0.222	27	0.08	8	0.036	16	0	22	NC	35	NC	35
522			min	-0.222	25	-0.076	22	0.003	22	-0.001	16	NC	1	NC	1
523		2	max	0.222	27	0.08	8	0.064	5	0	22	NC	35	NC	35
524			min	-0.222	25	-0.076	22	0.005	22	-0.001	16	NC	1	1711.047	3
525		3	max	0.222	27	0.08	8	0.076	5	0	22	NC	35	NC	35
526			min	-0.222	25	-0.076	22	0.006	22	-0.001	16	NC	1	1217.133	3
527		4	max	0.222	27	0.08	8	0.064	5	0	22	NC	35	NC	35
528			min	-0.222	25	-0.076	22	0.005	22	-0.001	16	NC	1	1711.045	3
529		5	max	0.222	27	0.08	8	0.036	16	0	22	NC	35	NC	35
530			min	-0.222	25	-0.076	22	0.003	22	-0.001	16	NC	1	NC	1
531	M54	1	max	0.236	27	0.075	8	0.047	16	0	22	NC	35	NC	35
532			min	-0.235	25	-0.074	22	0.001	22	-0.001	16	NC	1	NC	1
533		2	max	0.236	27	0.075	8	0.074	5	0	22	NC	35	NC	35
534			min	-0.235	25	-0.074	22	0.004	22	-0.001	16	NC	1	1684.327	3
535		3	max	0.236	27	0.075	8	0.086	5	0	22	NC	35	NC	35
536			min	-0.235	25	-0.074	22	0.005	22	-0.001	16	NC	1	1199.089	3
537		4	max	0.236	27	0.075	8	0.075	5	0	22	NC	35	NC	35
538			min	-0.235	25	-0.074	22	0.004	22	-0.001	16	NC	1	1684.316	3
539		5	max	0.236	27	0.075	8	0.048	16	0	22	NC	35	NC	35
540			min	-0.235	25	-0.074	22	0.001	22	-0.001	16	NC	1	NC	1
541	M55	1	max	0.005	31	0.002	35	0.012	24	0	32	NC	35	NC	35
542			min	-0.001	33	-0.004	29	-0.012	26	0	26	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
543		2	max	0.003	31	0	35	0.008	32	0	32	NC	35	NC	35
544			min	-0.001	33	-0.005	29	-0.01	26	0	26	NC	1	7320.991	24
545		3	max	0.002	31	-0.001	35	0.005	32	0	32	NC	35	NC	35
546			min	-0.001	33	-0.005	29	-0.008	26	0	26	NC	1	3860.58	24
547		4	max	0.001	31	0	2	0.002	32	0	32	NC	35	NC	35
548			min	0	33	-0.003	29	-0.004	26	0	26	NC	1	2760.085	24
549		5	max	0	35	0	35	0	35	0	32	NC	35	NC	35
550			min	0	1	0	1	0	1	0	26	NC	1	2211.036	26
551	M56	1	max	0.001	35	0.002	33	0.012	24	0	28	NC	35	NC	35
552			min	-0.005	29	-0.004	31	-0.012	26	0	34	NC	1	NC	1
553		2	max	0.002	35	0.003	33	0.014	32	0	28	NC	35	NC	35
554			min	-0.006	29	-0.006	31	-0.015	26	0	34	NC	1	8423.226	26
555		3	max	0.002	35	0.004	33	0.017	32	0	28	NC	35	NC	35
556			min	-0.007	29	-0.009	31	-0.018	26	0	34	NC	1	4198.584	26
557		4	max	0.002	35	0.006	33	0.02	32	0	28	NC	35	NC	35
558			min	-0.008	29	-0.011	31	-0.021	26	0	34	NC	1	2870.213	26
559		5	max	0.003	35	0.009	33	0.023	24	0	28	NC	35	NC	35
560			min	-0.009	29	-0.012	31	-0.023	26	0	34	NC	1	2224.974	26
561	M57	1	max	0	35	0	35	0	35	0	28	NC	35	NC	35
562			min	0	1	0	1	0	1	0	34	NC	1	NC	1
563		2	max	0	35	0	33	0.003	32	0	28	NC	35	NC	35
564			min	-0.001	29	-0.002	31	-0.004	26	0	34	NC	1	8038.692	26
565		3	max	0.001	35	0	33	0.005	32	0	28	NC	35	NC	35
566			min	-0.002	29	-0.003	31	-0.007	26	0	34	NC	1	4173.605	26
567		4	max	0.001	35	0.001	33	0.009	32	0	28	NC	35	NC	35
568			min	-0.003	29	-0.003	31	-0.009	26	0	34	NC	1	2893.738	26
569		5	max	0.001	35	0.002	33	0.012	24	0	28	NC	35	NC	35
570			min	-0.005	29	-0.004	31	-0.012	26	0	34	NC	1	2211.036	26
571	M58	1	max	0.009	31	0.009	35	0.023	24	0	24	NC	35	NC	35
572			min	-0.003	33	-0.012	29	-0.023	26	0	34	NC	1	NC	1
573		2	max	0.008	31	0.006	35	0.02	32	0	24	NC	35	NC	35
574			min	-0.002	33	-0.012	29	-0.022	26	0	34	NC	1	7368.157	24
575		3	max	0.007	31	0.004	35	0.016	32	0	24	NC	35	NC	35
576			min	-0.002	33	-0.011	29	-0.019	26	0	26	NC	1	3886.82	24
577		4	max	0.006	31	0.003	35	0.014	32	0	32	NC	35	NC	35
578			min	-0.002	33	-0.008	29	-0.016	26	0	26	NC	1	2780.214	24
579		5	max	0.005	31	0.002	35	0.012	24	0	32	NC	35	NC	35
580			min	-0.001	33	-0.004	29	-0.012	26	0	26	NC	1	2225.406	26
581	M59	1	max	0.023	26	0.013	25	-0.003	32	0	30	NC	35	NC	35
582			min	-0.023	24	-0.013	35	-0.024	3	0	32	NC	1	NC	1
583		2	max	0.023	26	0.053	25	-0.03	35	0	35	NC	34	2082.302	33
584			min	-0.023	24	-0.053	35	-0.3	3	0	25	1455.746	27	214.183	3
585		3	max	0.023	26	0.069	25	-0.041	35	0	35	NC	34	1483.64	35
586			min	-0.023	24	-0.069	35	-0.409	3	0	25	1037.219	27	152.605	3
587		4	max	0.023	26	0.052	25	-0.028	35	0	35	NC	34	2082.302	20
588			min	-0.023	24	-0.052	35	-0.292	3	0	25	1455.746	27	214.183	3
589		5	max	0.023	26	0.01	25	0.001	35	0	35	NC	35	NC	35
590			min	-0.023	24	-0.01	35	-0.01	29	0	25	NC	1	NC	1
591	M60	1	max	0.013	35	0.023	26	-0.003	32	0	30	NC	35	NC	35
592			min	-0.013	25	-0.023	24	-0.024	3	0	32	NC	1	NC	1
593		2	max	0.013	35	0.023	26	-0.004	32	0	30	NC	35	NC	35
594			min	-0.013	25	-0.023	24	-0.026	3	0	32	NC	1	NC	1
595		3	max	0.013	35	0.023	26	-0.004	32	0	30	NC	35	NC	35
596			min	-0.013	25	-0.023	24	-0.026	3	0	32	NC	1	NC	1
597		4	max	0.013	35	0.023	26	-0.004	32	0	30	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
598			min	-0.013	25	-0.023	24	-0.026	3	0	32	NC	1	NC	1
599		5	max	0.013	35	0.023	26	-0.003	32	0	30	NC	35	NC	35
600			min	-0.013	25	-0.023	24	-0.024	3	0	32	NC	1	NC	1
601	M61	1	max	0.023	26	0.015	25	-0.003	34	0	27	NC	35	NC	35
602			min	-0.023	24	-0.015	27	-0.024	3	0	33	NC	1	NC	1
603		2	max	0.023	26	0.055	25	-0.031	34	0	31	NC	34	2082.302	20
604			min	-0.023	24	-0.055	35	-0.304	3	0	33	1455.746	35	214.183	3
605		3	max	0.023	26	0.072	25	-0.043	35	0	31	NC	34	1483.64	32
606			min	-0.023	24	-0.072	35	-0.417	3	0	33	1037.219	25	152.605	3
607		4	max	0.023	26	0.054	25	-0.031	32	0	30	NC	34	2082.302	20
608			min	-0.023	24	-0.054	35	-0.304	3	0	32	1455.746	25	214.183	3
609		5	max	0.023	26	0.013	25	-0.003	32	0	30	NC	35	NC	35
610			min	-0.023	24	-0.013	35	-0.024	3	0	32	NC	1	NC	1
611	M62	1	max	0.023	24	0.013	35	-0.003	32	0	30	NC	35	NC	35
612			min	-0.023	26	-0.013	25	-0.024	3	0	32	NC	1	NC	1
613		2	max	0.023	24	0.054	35	-0.031	32	0	30	NC	34	2082.302	34
614			min	-0.023	26	-0.054	25	-0.304	3	0	32	1455.746	27	214.183	3
615		3	max	0.023	24	0.072	35	-0.043	33	0	29	NC	34	1483.64	35
616			min	-0.023	26	-0.072	25	-0.417	3	0	35	1037.219	33	152.605	3
617		4	max	0.023	24	0.055	35	-0.031	34	0	29	NC	34	2082.302	32
618			min	-0.023	26	-0.055	25	-0.304	3	0	35	1455.746	35	214.183	3
619		5	max	0.023	24	0.015	35	-0.003	34	0	25	NC	35	NC	35
620			min	-0.023	26	-0.015	25	-0.024	3	0	35	NC	1	NC	1
621	M63	1	max	0.023	24	0.01	27	0.001	33	0	33	NC	35	NC	35
622			min	-0.023	26	-0.01	33	-0.01	31	0	27	NC	1	NC	1
623		2	max	0.023	24	0.052	27	-0.028	33	0	33	NC	34	2082.302	23
624			min	-0.023	26	-0.052	33	-0.292	3	0	27	1455.746	25	214.183	3
625		3	max	0.023	24	0.069	27	-0.041	33	0	33	NC	34	1483.64	34
626			min	-0.023	26	-0.069	25	-0.409	3	0	27	1037.219	25	152.605	3
627		4	max	0.023	24	0.053	35	-0.03	33	0	33	NC	34	2082.302	22
628			min	-0.023	26	-0.053	25	-0.3	3	0	27	1455.746	35	214.183	3
629		5	max	0.023	24	0.013	35	-0.003	32	0	30	NC	35	NC	35
630			min	-0.023	26	-0.013	25	-0.024	3	0	32	NC	1	NC	1
631	M64	1	max	0.01	35	0.023	26	0.001	35	0	28	NC	35	NC	35
632			min	-0.01	25	-0.023	24	-0.01	29	0	34	NC	1	NC	1
633		2	max	0.01	35	0.045	10	-0.006	2	0	28	NC	35	NC	2
634			min	-0.01	25	-0.045	8	-0.034	29	0	34	1698.37	22	2418.12	18
635		3	max	0.01	35	0.059	10	-0.006	2	0	28	NC	35	NC	2
636			min	-0.01	25	-0.059	8	-0.043	3	0	34	1210.089	8	1722.91	3
637		4	max	0.01	27	0.045	10	-0.006	2	0	28	NC	35	NC	2
638			min	-0.01	25	-0.045	8	-0.034	31	0	34	1698.37	8	2418.12	18
639		5	max	0.01	27	0.023	26	0.001	33	0	28	NC	35	NC	35
640			min	-0.01	33	-0.023	24	-0.01	31	0	34	NC	1	NC	1
641	M65	1	max	0	35	0	35	0	35	0	20	NC	35	NC	35
642			min	0	1	0	1	0	1	0	18	NC	1	NC	1
643		2	max	0	33	0.007	30	0.003	33	0	20	NC	35	NC	35
644			min	-0.002	31	-0.006	32	-0.003	27	0	18	NC	1	NC	1
645		3	max	0.001	33	0.013	30	0.005	33	0	20	NC	35	NC	35
646			min	-0.005	31	-0.012	32	-0.005	27	0	18	7281.874	32	NC	1
647		4	max	0.001	33	0.018	26	0.008	33	0	20	NC	35	NC	35
648			min	-0.007	31	-0.017	32	-0.008	27	0	18	4844.159	32	NC	1
649		5	max	0.001	33	0.023	26	0.01	33	0	20	NC	35	NC	35
650			min	-0.01	31	-0.023	24	-0.01	27	0	18	3619.415	24	NC	1
651	M66	1	max	0	35	0	35	0	35	0	18	NC	35	NC	35
652			min	0	1	0	1	0	1	0	20	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
653		2	max	0	35	0.007	30	0.003	25	0	18	NC	35	NC	35
654			min	-0.002	29	-0.006	32	-0.003	35	0	20	NC	1	NC	1
655		3	max	0.001	35	0.013	30	0.005	25	0	18	NC	35	NC	35
656			min	-0.005	29	-0.012	32	-0.005	35	0	20	7269.813	32	NC	1
657		4	max	0.001	35	0.018	26	0.008	25	0	18	NC	35	NC	35
658			min	-0.007	29	-0.017	32	-0.008	35	0	20	4839.417	32	NC	1
659		5	max	0.001	35	0.023	26	0.01	25	0	18	NC	35	NC	35
660			min	-0.01	29	-0.023	24	-0.01	35	0	20	3619.171	24	NC	1
661	M67	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
662			min	0	1	0	1	0	1	0	1	NC	1	NC	1
663		2	max	-0.001	32	0.012	26	0.005	25	0	35	NC	35	NC	35
664			min	-0.006	3	-0.011	32	-0.005	35	0	1	NC	1	NC	1
665		3	max	-0.001	32	0.021	26	0.009	25	0	35	NC	35	NC	35
666			min	-0.012	3	-0.02	32	-0.009	35	0	1	7884.938	30	NC	1
667		4	max	-0.002	32	0.026	26	0.012	25	0	35	NC	35	NC	35
668			min	-0.018	3	-0.024	32	-0.012	35	0	1	9011.357	30	NC	1
669		5	max	-0.003	32	0.023	26	0.013	25	0	35	NC	35	NC	35
670			min	-0.024	3	-0.023	24	-0.013	35	0	1	NC	1	NC	1
671	M68	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
672			min	0	1	0	1	0	1	0	1	NC	1	NC	1
673		2	max	-0.001	32	0.012	26	0.005	25	0	35	NC	35	NC	35
674			min	-0.006	3	-0.011	32	-0.005	35	0	1	NC	1	NC	1
675		3	max	-0.001	32	0.021	26	0.009	25	0	35	NC	35	NC	35
676			min	-0.012	3	-0.02	32	-0.009	35	0	1	7921.916	30	NC	1
677		4	max	-0.002	32	0.026	26	0.012	25	0	35	NC	35	NC	35
678			min	-0.018	3	-0.024	32	-0.012	35	0	1	9053.618	30	NC	1
679		5	max	-0.003	32	0.023	26	0.013	25	0	35	NC	35	NC	35
680			min	-0.024	3	-0.023	24	-0.013	35	0	1	NC	1	NC	1
681	M69	1	max	0.008	31	0.003	35	0.011	24	0	32	NC	35	NC	35
682			min	-0.002	33	-0.007	29	-0.011	26	0	26	NC	1	NC	1
683		2	max	0.006	31	0.002	35	0.01	29	0	32	NC	35	NC	35
684			min	-0.002	33	-0.005	29	-0.01	31	0	26	NC	1	8573.826	24
685		3	max	0.004	31	0	35	0.007	29	0	32	NC	35	NC	35
686			min	-0.001	33	-0.004	29	-0.008	31	0	26	NC	1	4266.876	24
687		4	max	0.002	31	0	35	0.003	29	0	24	NC	35	NC	35
688			min	-0.001	33	-0.002	29	-0.004	31	0	26	NC	1	2914.546	24
689		5	max	0	35	0	35	0	35	0	24	NC	35	NC	33
690			min	0	1	0	1	0	1	0	26	NC	1	2253.992	26
691	M70	1	max	0.002	35	0.003	33	0.011	24	0	24	NC	35	NC	35
692			min	-0.008	29	-0.007	31	-0.011	26	0	26	NC	1	NC	1
693		2	max	0.003	35	0.005	33	0.013	32	0	24	NC	35	NC	35
694			min	-0.01	29	-0.012	31	-0.016	26	0	26	NC	1	7484.169	26
695		3	max	0.003	35	0.007	33	0.016	32	0	24	NC	35	NC	35
696			min	-0.012	29	-0.016	31	-0.019	26	0	26	NC	1	3951.442	26
697		4	max	0.004	35	0.01	33	0.019	32	0	24	NC	35	NC	35
698			min	-0.014	29	-0.019	31	-0.021	26	0	26	NC	1	2829.87	26
699		5	max	0.004	35	0.014	33	0.023	24	0	24	NC	35	NC	35
700			min	-0.016	29	-0.02	31	-0.023	26	0	26	NC	1	2275.232	26
701	M71	1	max	0	35	0	35	0	35	0	24	NC	35	NC	35
702			min	0	1	0	1	0	1	0	26	NC	1	NC	1
703		2	max	0.001	35	0	33	0.002	32	0	24	NC	35	NC	35
704			min	-0.002	29	-0.004	31	-0.004	26	0	26	NC	1	7426.617	26
705		3	max	0.001	35	0	33	0.005	32	0	24	NC	35	NC	35
706			min	-0.004	29	-0.006	31	-0.007	26	0	26	NC	1	3919.37	26
707		4	max	0.002	35	0.001	33	0.008	32	0	24	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
708			min	-0.006	29	-0.007	31	-0.01	26	0	26	NC	1	2805.21	26
709		5	max	0.002	35	0.003	33	0.011	24	0	24	NC	35	NC	33
710			min	-0.008	29	-0.007	31	-0.011	26	0	26	NC	1	2253.992	26
711	M72	1	max	0.016	31	0.014	35	0.023	24	0	26	NC	35	NC	35
712			min	-0.004	33	-0.02	29	-0.023	26	0	24	NC	1	NC	1
713		2	max	0.014	31	0.01	35	0.02	32	0	34	NC	35	NC	35
714			min	-0.004	33	-0.017	29	-0.021	26	0	28	NC	1	7318.375	31
715		3	max	0.012	31	0.007	35	0.017	32	0	20	NC	35	NC	35
716			min	-0.003	33	-0.014	29	-0.018	26	0	18	NC	1	3926.593	31
717		4	max	0.01	31	0.005	35	0.014	32	0	32	NC	35	NC	33
718			min	-0.003	33	-0.01	29	-0.015	26	0	26	NC	1	2802.309	29
719		5	max	0.008	31	0.003	35	0.011	24	0	32	NC	35	NC	23
720			min	-0.002	33	-0.007	29	-0.011	26	0	26	NC	1	2276.291	26
721	M73	1	max	0.003	34	0.005	32	0.016	30	0	27	NC	35	NC	35
722			min	-0.009	28	-0.008	30	-0.017	28	0	33	NC	1	NC	1
723		2	max	0.004	34	0.008	32	0.011	30	0	27	NC	35	NC	35
724			min	-0.011	28	-0.015	30	-0.014	28	0	33	NC	1	5626.091	30
725		3	max	0.005	34	0.011	32	0.011	35	0	27	NC	35	NC	32
726			min	-0.013	28	-0.02	30	-0.014	25	0	33	NC	1	2929.733	30
727		4	max	0.006	34	0.016	32	0.013	35	0	27	NC	35	NC	23
728			min	-0.016	28	-0.023	30	-0.015	25	0	33	NC	1	2058.643	30
729		5	max	0.007	34	0.021	32	0.016	27	0	27	NC	35	NC	22
730			min	-0.018	28	-0.025	30	-0.016	25	0	33	NC	1	1497.75	28
731	M74	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
732			min	0	1	0	1	0	1	0	25	NC	1	NC	1
733		2	max	0.001	34	0	32	0.003	30	0	35	NC	35	NC	35
734			min	-0.002	28	-0.004	30	-0.006	28	0	25	NC	1	5268.392	28
735		3	max	0.002	34	0.001	32	0.006	30	0	35	NC	35	NC	34
736			min	-0.004	28	-0.007	30	-0.01	28	0	25	NC	1	2736.248	28
737		4	max	0.003	34	0.003	32	0.01	30	0	35	NC	35	NC	23
738			min	-0.007	28	-0.008	30	-0.014	28	0	25	NC	1	1915.853	28
739		5	max	0.003	34	0.005	32	0.016	30	0	35	NC	35	NC	22
740			min	-0.009	28	-0.008	30	-0.017	28	0	25	NC	1	1505.346	28
741	M75	1	max	0	35	0	35	0	35	0	27	NC	35	NC	35
742			min	0	1	0	1	0	1	0	33	NC	1	NC	1
743		2	max	0.001	34	0	32	0.003	30	0	27	NC	35	NC	35
744			min	-0.002	28	-0.004	30	-0.006	28	0	33	NC	1	5231.751	28
745		3	max	0.002	34	0.001	32	0.006	30	0	27	NC	35	NC	34
746			min	-0.004	28	-0.007	30	-0.01	28	0	33	NC	1	2716.486	28
747		4	max	0.003	34	0.003	32	0.011	30	0	27	NC	35	NC	23
748			min	-0.007	28	-0.008	30	-0.014	28	0	33	NC	1	1901.325	28
749		5	max	0.003	34	0.005	32	0.016	30	0	27	NC	35	NC	22
750			min	-0.009	28	-0.008	30	-0.017	28	0	33	NC	1	1493.392	28
751	M76	1	max	0	35	0	35	0	35	0	25	NC	35	NC	35
752			min	0	1	0	1	0	1	0	35	NC	1	NC	1
753		2	max	0.001	32	0	34	0.006	28	0	25	NC	35	NC	35
754			min	-0.002	30	-0.003	28	-0.006	30	0	35	NC	1	4998.265	30
755		3	max	0.002	32	0.001	34	0.011	28	0	29	NC	35	NC	23
756			min	-0.004	30	-0.005	28	-0.012	30	0	35	NC	1	2602.857	28
757		4	max	0.003	32	0.003	34	0.015	28	0	29	NC	35	NC	22
758			min	-0.007	30	-0.006	28	-0.015	30	0	35	NC	1	1815.416	28
759		5	max	0.003	32	0.005	34	0.017	28	0	29	NC	35	NC	22
760			min	-0.009	30	-0.009	28	-0.016	30	0	35	NC	1	1493.392	28
761	M77	1	max	0	35	0	35	0	35	0	33	NC	35	NC	35
762			min	0	1	0	1	0	1	0	27	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
763		2	max	0.001	32	0	34	0.006	28	0	33	NC	35	NC	35
764			min	-0.002	30	-0.003	28	-0.006	30	0	27	NC	1	5068.27	30
765		3	max	0.002	32	0.001	34	0.011	28	0	33	NC	35	NC	32
766			min	-0.004	30	-0.005	28	-0.011	30	0	31	NC	1	2622.521	28
767		4	max	0.003	32	0.003	34	0.015	28	0	33	NC	35	NC	22
768			min	-0.007	30	-0.006	28	-0.015	30	0	31	NC	1	1829.306	28
769		5	max	0.003	32	0.005	34	0.017	28	0	33	NC	35	NC	22
770			min	-0.009	30	-0.009	28	-0.016	30	0	31	NC	1	1505.346	28
771	M78	1	max	0.003	32	0.005	34	0.017	28	0	29	NC	35	NC	35
772			min	-0.009	30	-0.009	28	-0.016	30	0	35	NC	1	NC	1
773		2	max	0.004	32	0.008	34	0.015	28	0	29	NC	35	NC	35
774			min	-0.011	30	-0.013	28	-0.015	30	0	35	NC	1	8403.736	28
775		3	max	0.005	32	0.011	34	0.011	33	0	29	NC	35	NC	34
776			min	-0.013	30	-0.017	28	-0.013	27	0	35	NC	1	3498.393	28
777		4	max	0.006	32	0.016	34	0.014	33	0	29	NC	35	NC	22
778			min	-0.016	30	-0.021	28	-0.015	27	0	35	NC	1	2105.778	28
779		5	max	0.007	32	0.021	34	0.016	25	0	29	NC	35	NC	22
780			min	-0.018	30	-0.025	28	-0.016	27	0	35	NC	1	1491.569	28
781	M79	1	max	0.003	34	0.005	32	0.016	30	0	35	NC	35	NC	35
782			min	-0.009	28	-0.008	30	-0.017	28	0	25	NC	1	NC	1
783		2	max	0.004	34	0.008	32	0.01	30	0	35	NC	35	NC	35
784			min	-0.011	28	-0.015	30	-0.014	28	0	25	NC	1	5754.939	30
785		3	max	0.005	34	0.011	32	0.011	35	0	35	NC	35	NC	32
786			min	-0.013	28	-0.02	30	-0.014	25	0	25	NC	1	2999.679	30
787		4	max	0.006	34	0.016	32	0.014	35	0	35	NC	35	NC	23
788			min	-0.016	28	-0.023	30	-0.015	25	0	25	NC	1	2102.149	28
789		5	max	0.007	34	0.021	32	0.016	27	0	35	NC	35	NC	22
790			min	-0.018	28	-0.025	30	-0.016	25	0	25	NC	1	1501.682	28
791	M80	1	max	0.003	32	0.005	34	0.017	28	0	33	NC	35	NC	35
792			min	-0.009	30	-0.009	28	-0.016	30	0	31	NC	1	NC	1
793		2	max	0.004	32	0.008	34	0.015	28	0	33	NC	35	NC	35
794			min	-0.011	30	-0.013	28	-0.015	30	0	31	NC	1	8376.705	28
795		3	max	0.005	32	0.011	34	0.012	33	0	33	NC	35	NC	34
796			min	-0.013	30	-0.017	28	-0.013	27	0	31	NC	1	3490.804	28
797		4	max	0.006	32	0.016	34	0.014	33	0	33	NC	35	NC	22
798			min	-0.016	30	-0.021	28	-0.015	27	0	31	NC	1	2102.409	28
799		5	max	0.007	32	0.021	34	0.016	33	0	33	NC	35	NC	22
800			min	-0.018	30	-0.025	28	-0.016	27	0	31	NC	1	1489.676	28

Envelope AISI S100-16: ASD Member Cold Formed Steel Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pn/Om[lb]	Tn/Om[lb]	Mnyy/Om[lb-ft]	Mnzz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
1	M48	1200S200-97	0.391	2	5	0.062	0	z	5	17069.542	50299.401	884.053	6834.59	8145.361	5687.827	1	H1.1-2
2	M49	1200S200-97	0.264	2	5	0.042	0	z	5	18629.826	50299.401	884.053	6836.837	8145.361	5687.827	1	H1.2-1
3	M50	1200S200-97	0.263	2	5	0.042	0	z	5	18629.826	50299.401	884.053	6836.148	8145.361	5687.827	1	H1.2-1
4	M51	1200S200-97	0.265	2	5	0.042	4	z	5	18629.826	50299.401	884.053	6836.149	8145.361	5687.827	1.011	H1.2-1
5	M52	1200S200-97	0.263	2	5	0.042	4	z	5	18629.826	50299.401	884.053	6836.149	8145.361	5687.827	1	H1.2-1
6	M53	1200S200-97	0.263	2	5	0.042	0	z	5	17069.542	50299.401	884.053	6836.175	8145.361	5687.827	1	H1.1-2
7	M54	1200S200-97	0.267	2	5	0.042	0	z	5	18629.826	50299.401	884.053	6835.888	8145.361	5687.827	1	H1.2-1

Envelope AA ADM1-20: ASD - BUILDING Member Aluminum Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/Om[lb]	Pnt/Om[lb]	Mny/Om[lb-ft]	Mnz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
1	M1	L2X2X0.188	0.35	1.971	29	0.002	4.301	y	8	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1
2	M2	L2X2X0.188	0.353	1.971	29	0.006	4.301	y	8	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1

Envelope AA ADM1-20: ASD - BUILDING Member Aluminum Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/Om[lb]	Pnt/Om[lb]	Mny/Om[lb-ft]	Mnz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
3	M3	L2X2X0.188	0.363	4.301	31	0.001	4.301	y	8	2033.7	14089.231	353.229	425.324	4410.191	4410.191	1	H.1-1
4	M4	L2X2X0.188	0.364	0	31	0.004	0	y	8	2033.7	14089.231	353.229	425.324	4410.191	4410.191	1	H.1-1
5	M5	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
6	M6	EDGEBEAM	0.134	0	16	0.052	0.5	z	16	24913.342	28012.821	1664.434	575.373	6153.846	12307.692	1	H.1-1
7	M7	EDGEBEAM	0.003	2.5	25	0	5	z	27	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
8	M8	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
9	M9	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
10	M10	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
11	M11	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
12	M12	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
13	M13	EDGEBEAM	0.566	2.5	5	0.068	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
14	M14	EDGEBEAM	0.003	2.5	31	0.001	5	z	27	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
15	M15	EDGEBEAM	0.213	1.917	16	0.01	4	z	5	9387.979	28012.821	1664.434	540.837	6153.846	12307.692	1	H.1-1
16	M16	EDGEBEAM	0.003	2.5	31	0.001	5	z	25	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
17	M17	EDGEBEAM	0.149	0.5	16	0.047	0	z	16	24913.342	28012.821	1664.434	679.986	6153.846	12307.692	1	H.1-1
18	M18	EDGEBEAM	0.003	2.5	31	0.001	5	z	25	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
19	M19	EDGEBEAM	0.566	2.5	5	0.068	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
20	M20	RT1.5X1.5X.120	0.244	0	5	0	3.5	z	35	6166.763	12908.308	499.277	499.277	3367.385	3367.385	1	H.1-1
21	M21	RT1.5X1.5X.120	0.244	0	5	0	3.5	z	35	6166.763	12908.308	499.277	499.277	3367.385	3367.385	1	H.3-2
22	M22	RT1.5X1.5X.120	0.786	0	28	0	7	z	29	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.1-1
23	M23	RT1.5X1.5X.120	0.783	0	30	0	7	z	27	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.1-1
24	M24	RT1.5X1.5X.120	0.623	7	31	0.002	7	z	16	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.743	H.1-1
25	M25	RT1.5X1.5X.120	0.782	0	30	0	7	z	25	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.1-1
26	M26	RT1.5X1.5X.120	0.63	7	29	0.002	7	z	16	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.741	H.1-1
27	M27	RT1.5X1.5X.120	0.994	0	5	0	7	y	29	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
28	M28	RT1.5X1.5X.120	0.994	0	5	0	7	y	31	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
29	M29	RT1.5X1.5X.120	0.727	0	31	0	7	y	26	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1	H.1-1
30	M30	RT1.5X1.5X.120	0.784	0	28	0	7	z	31	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.1-1
31	M31	RT1.5X1.5X.120	0.728	0	29	0	7	y	26	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1	H.1-1
32	M32	0.25X8STRINGER	0.203	1.329	31	0.006	0	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
33	M33	0.25X8STRINGER	0.206	1.329	31	0.029	0	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
34	M34	0.25X8STRINGER	0.165	0	18	0.003	1.329	y	31	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
35	M35	0.25X8STRINGER	0.165	0	18	0.003	1.329	y	29	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
36	M36	0.25X8STRINGER	0.188	0	18	0.011	1.329	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
37	M37	0.25X8STRINGER	0.192	0	18	0.011	1.329	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
38	M38	0.25X8STRINGER	0.619	1.329	29	0.019	1.329	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
39	M39	0.25X8STRINGER	0.628	1.329	31	0.019	1.329	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
40	M40	0.25X8STRINGER	0.317	0	31	0.015	0	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
41	M41	0.25X8STRINGER	0.304	1.329	5	0.016	1.329	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
42	M42	0.25X8STRINGER	0.301	1.329	5	0.016	1.329	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
43	M43	0.25X8STRINGER	0.19	0	29	0.007	1.329	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
44	M44	0.25X8STRINGER	0.183	0.055	31	0.007	1.329	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
45	M45	0.25X8STRINGER	0.202	1.329	29	0.006	0	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
46	M46	0.25X8STRINGER	0.318	0	29	0.015	0	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
47	M47	0.25X8STRINGER	0.206	1.329	29	0.029	0	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
48	M55	L2X2X0.188	0.255	2.33	31	0	4.301	y	29	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1
49	M56	L2X2X0.188	0.255	0	29	0	0	y	31	2033.7	14089.231	353.229	425.324	4410.191	4410.191	1	H.1-1
50	M57	L2X2X0.188	0.256	4.301	29	0	4.301	y	31	2033.7	14089.231	353.229	425.324	4410.191	4410.191	1	H.1-1
51	M58	L2X2X0.188	0.253	2.33	31	0	4.301	y	18	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1
52	M59	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
53	M60	EDGEBEAM	0.003	2.5	31	0.001	5	z	25	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
54	M61	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
55	M62	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
56	M63	EDGEBEAM	0.566	2.5	5	0.061	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
57	M64	EDGEBEAM	0.07	2.5	10	0.006	5	z	27	6008.306	28012.821	1664.434	515.332	6153.846	12307.692	1	H.1-1

Envelope AA ADM1-20: ASD - BUILDING Member Aluminum Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/Om[lb]	Pnt/Om[lb]	Mny/Om[lb-ft]	Mnz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
58	M65	RT1.5X1.5X.120	0.408	0	31	0	7	y	31	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.1-1
59	M66	RT1.5X1.5X.120	0.41	0	29	0	7	y	29	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.1-1
60	M67	RT1.5X1.5X.120	0.995	0	5	0	7	y	30	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
61	M68	RT1.5X1.5X.120	0.995	0	5	0	7	y	30	1541.691	12908.308	499.277	499.277	3367.385	3367.385	1.746	H.3-2
62	M69	L2X2X0.188	0.449	0	31	0	0	y	26	2033.7	14089.231	353.229	425.324	4410.191	4410.191	1	H.1-1
63	M70	L2X2X0.188	0.446	1.971	29	0	4.301	y	26	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1
64	M71	L2X2X0.188	0.449	1.971	29	0	4.301	y	26	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1
65	M72	L2X2X0.188	0.448	4.301	31	0	4.301	y	26	2033.7	14089.231	353.229	425.324	4410.191	4410.191	1	H.1-1
66	M73	L2X2X0.188	0.5	1.971	28	0	4.301	y	25	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1
67	M74	L2X2X0.188	0.503	1.971	28	0	4.301	y	29	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1
68	M75	L2X2X0.188	0.502	1.971	28	0	4.301	y	31	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1
69	M76	L2X2X0.188	0.504	4.301	30	0	4.301	y	30	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1
70	M77	L2X2X0.188	0.503	4.301	30	0	4.301	y	30	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1
71	M78	L2X2X0.188	0.504	0	30	0	0	y	30	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1
72	M79	L2X2X0.188	0.5	1.971	28	0	4.301	y	27	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1
73	M80	L2X2X0.188	0.503	0	30	0	0	y	30	2033.7	14089.231	382.771	425.324	4410.191	4410.191	1	H.1-1

Envelope Plate Principal Stresses

	Plate		Surface	Sigma1 [ksi]	LC	Sigma2 [ksi]	LC	Tau Max [ksi]	LC	Angle [rad]	LC	Von Mises [ksi]	LC
1	P1	max	T	0.191	26	0.098	30	0.102	28	2.323	33	0.186	24
2		min		-0.011	32	-0.189	32	0.002	10	-0.068	10	0.015	1
3		max	B	0.191	26	0.098	30	0.102	28	2.323	33	0.186	24
4		min		-0.011	32	-0.189	32	0.002	10	-0.068	10	0.015	1
5	P2	max	T	0.343	16	0.024	30	0.16	16	2.193	32	0.332	16
6		min		0	22	-0.029	22	0.001	32	-0.35	35	0.001	32
7		max	B	0.343	16	0.024	30	0.16	16	2.193	32	0.332	16
8		min		0	22	-0.029	22	0.001	32	-0.35	35	0.001	32
9	P3	max	T	0.154	8	0.09	16	0.092	27	2.33	35	0.159	27
10		min		-0.011	22	-0.152	22	0.006	28	-0.18	28	0.017	1
11		max	B	0.154	8	0.09	16	0.092	27	2.33	35	0.159	27
12		min		-0.011	22	-0.152	22	0.006	28	-0.18	28	0.017	1
13	P4	max	T	0.137	26	0.108	30	0.095	28	2.314	35	0.165	28
14		min		0.006	32	-0.134	32	0.002	30	-0.242	30	0.019	1
15		max	B	0.137	26	0.108	30	0.095	28	2.314	35	0.165	28
16		min		0.006	32	-0.134	32	0.002	30	-0.242	30	0.019	1
17	P5	max	T	0.126	16	0.023	16	0.064	29	2.307	33	0.125	29
18		min		-0.002	22	-0.05	33	0.004	26	-0.083	26	0.008	26
19		max	B	0.126	16	0.023	16	0.064	29	2.307	33	0.125	29
20		min		-0.002	22	-0.05	33	0.004	26	-0.083	26	0.008	26
21	P6	max	T	0.12	20	0.03	12	0.109	18	1.64	24	0.204	18
22		min		-0.014	22	-0.184	18	0.015	12	-0.696	35	0.03	1
23		max	B	0.12	20	0.03	12	0.109	18	1.64	24	0.204	18
24		min		-0.014	22	-0.184	18	0.015	12	-0.696	35	0.03	1
25	P7	max	T	0.081	34	0.001	34	0.041	26	1.605	28	0.081	26
26		min		-0.03	28	-0.082	24	0.002	12	-0.727	33	0.006	1
27		max	B	0.081	34	0.001	34	0.041	26	1.605	28	0.081	26
28		min		-0.03	28	-0.082	24	0.002	12	-0.727	33	0.006	1
29	P8	max	T	0.129	29	0.028	30	0.092	25	2.322	33	0.16	25
30		min		0.012	20	-0.084	33	0	10	0	10	0.021	22
31		max	B	0.129	29	0.028	30	0.092	25	2.322	33	0.16	25
32		min		0.012	20	-0.084	33	0	10	0	10	0.021	22

Envelope Plate Forces (per ft)

	Plate		Qx [lb]	LC	Qy [lb]	LC	Mx [lb-ft]	LC	My [lb-ft]	LC	Mxy [lb-ft]	LC	Fx [lb]	LC	Fy [lb]	LC	Fxy [lb]	LC
1	P1	max	0	35	0	35	0	35	0	35	0	35	68.928	26	35.217	30	23.158	35
2		min	0	1	0	1	0	1	0	1	0	1	-68.037	32	-3.891	32	-23.486	25
3	P2	max	0	35	0	35	0	35	0	35	0	35	123.635	16	8.532	30	4.577	33
4		min	0	1	0	1	0	1	0	1	0	1	-10.614	22	-0.059	32	-4.875	27
5	P3	max	0	35	0	35	0	35	0	35	0	35	55.542	8	32.392	16	32.544	33
6		min	0	1	-3.662	16	0	1	0	1	0	1	-54.548	22	-4.023	22	-32.855	27
7	P4	max	0	35	0	35	0	35	0	35	0	35	49.294	26	39.107	5	23.121	33
8		min	0	1	0	1	0	1	0	1	0	1	-48.204	32	2.009	32	-23.3	27
9	P5	max	0	35	69.893	5	0	35	0	35	0	35	8.522	16	45.088	16	20.535	35
10		min	0	1	10.275	22	0	1	0	1	0	1	-0.868	22	-10.715	22	-21.826	25
11	P6	max	0	35	0	35	0	35	0	35	0	35	23.354	16	43.158	20	19.036	33
12		min	-2.163	16	0	1	0	1	0	1	0	1	-4.898	22	-66.28	18	-20.263	27
13	P7	max	0	35	0	35	0	35	0	35	0	35	29.024	34	0.466	34	4.726	35
14		min	0	1	0	1	0	1	0	1	0	1	-29.382	24	-10.687	28	-4.884	25
15	P8	max	0	35	0	35	0	35	0	35	0	35	10.457	26	33.568	5	32.698	35
16		min	0	1	0	1	0	1	0	1	0	1	-9.238	32	4.302	20	-32.867	25

Envelope Plate/Shell Corner Forces

	Plate	Node		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	P1	N20	max	169.345	32	9.968	26	182.388	31	0.051	22	0.002	26	5.834	26
2			min	-172.462	26	0.259	2	-42.323	33	-0.693	16	-0.002	24	-5.161	32
3		N21	max	170.841	32	10.09	30	41.708	35	0.051	22	0.004	24	5.867	26
4			min	-172.177	26	0.657	2	-185.915	29	-0.693	16	-0.004	26	-5.179	32
5		N1	max	171.856	26	10.049	24	57.475	33	0.191	22	0.001	27	5.869	26
6			min	-172.206	24	0.251	2	-59.433	27	-2.587	16	-0.001	33	-5.181	32
7		N10	max	172.783	26	9.27	24	60.377	25	0.191	22	0.001	35	5.836	26
8			min	-168.189	32	-1.168	2	-56.891	35	-2.587	16	-0.001	25	-5.163	32
9	P2	N10	max	73.004	35	9.653	24	26.026	29	2.65	29	0.001	35	4.186	32
10			min	-348.202	29	0.294	2	-9.913	35	-0.277	35	-0.001	25	-4.858	26
11		N1	max	74.37	33	8.888	24	9.331	33	2.651	29	0.001	27	4.213	32
12			min	-339.612	31	-1.154	2	-29.515	31	-0.277	35	-0.001	33	-4.899	26
13		N2	max	318.74	31	9.31	26	11.243	32	9.664	16	0.001	33	4.211	32
14			min	-51.483	33	-2.241	2	-28.517	30	-0.713	22	-0.001	31	-4.898	26
15		N11	max	334.272	29	12.345	30	31.231	30	9.663	16	0.001	29	4.184	32
16			min	-48.967	35	3.101	2	-9.93	32	-0.713	22	-0.001	35	-4.857	26
17	P3	N11	max	136.406	22	9.187	26	83.274	25	0.715	22	0.001	29	4.596	26
18			min	-141.71	8	-2.282	2	-80.675	35	-9.691	16	-0.001	35	-3.923	32
19		N2	max	136.764	10	12.266	30	80.113	33	0.713	22	0.001	33	4.646	26
20			min	-136.002	8	3.091	2	-84.24	27	-9.666	16	-0.001	31	-3.958	32
21		N3	max	134.685	20	22.158	28	64.485	35	2.66	22	0.069	10	4.642	26
22			min	-137.226	10	2.649	34	-186.482	29	-36.062	16	-0.069	8	-3.95	32
23		N12	max	143.13	8	6.756	10	189.928	31	2.665	22	0.154	10	4.592	26
24			min	-136.32	22	-10.396	2	-63.963	33	-36.123	16	-0.155	8	-3.915	32
25	P4	N24	max	125.001	35	8.585	24	78.533	29	0.423	29	0	35	2.412	32
26			min	-128.323	25	-0.422	2	-53.881	35	-0.327	35	0	1	-3.499	30
27		N17	max	125.5	33	8.533	24	53.584	33	0.423	29	0	35	2.425	32
28			min	-127.498	27	-0.536	2	-80.469	31	-0.327	35	0	1	-3.541	30
29		N21	max	122.985	26	8.874	26	40.79	35	0.694	16	0.004	24	2.428	32
30			min	-121.685	32	0.292	2	-192.584	29	-0.051	22	-0.004	26	-3.545	30
31		N20	max	123.485	26	9.258	30	194.454	31	0.694	16	0.002	26	2.415	32
32			min	-119.334	32	0.666	2	-40.525	33	-0.051	22	-0.002	24	-3.503	30
33	P5	N4	max	19.9	33	2.961	22	37.301	35	0.246	25	0.237	25	372.271	5
34			min	-53.658	31	-155.426	16	-60.464	29	-0.245	27	-0.246	27	50.77	33
35		N13	max	18.926	35	2.147	22	49.557	31	0.246	25	0.246	25	370.708	5

Envelope Plate/Shell Corner Forces (Continued)

	Plate	Node		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
36			min	-59.63	29	-148.116	16	-39.061	33	-0.246	27	-0.238	27	50.59	35
37		N31	max	73.587	31	195.715	29	53.721	29	0.171	22	2.959	16	370.698	5
38			min	-54.651	33	-26.171	35	-38.2	35	-3.414	16	-0.153	22	50.589	35
39		N32	max	91.897	29	185.526	31	39.95	33	0.177	22	2.972	16	372.262	5
40			min	-51.677	35	-27.844	33	-45.452	27	-3.365	16	-0.151	22	50.769	33
41	P6	N31	max	66.395	20	94.367	18	38.71	33	3.488	16	0.165	22	0.095	32
42			min	-96.938	18	-52.914	20	-39.496	27	-0.193	22	-3.08	16	-2.153	30
43		N22	max	93.989	18	68.323	8	120.638	31	13.693	16	0.725	22	0.099	32
44			min	-69.047	20	-68.521	10	-27.05	33	-0.657	22	-12.182	16	-2.162	30
45		N23	max	104.688	18	53.144	20	28.782	35	13.898	16	0.512	22	0.081	32
46			min	-61.137	20	-94.575	18	-109.765	29	-0.757	22	-11.958	16	-2.201	30
47		N32	max	63.789	20	94.203	18	37.435	33	3.527	16	0.15	22	0.077	32
48			min	-101.738	18	-52.65	20	-45	31	-0.167	22	-3.058	16	-2.192	30
49	P7	N47	max	80.969	27	8.792	26	8.538	35	0.49	33	0	35	2.841	26
50			min	-80.345	33	0.003	2	-32.264	29	-0.506	27	0	1	-2.605	32
51		N48	max	81.262	25	8.8	26	30.299	31	0.49	33	0	35	2.855	26
52			min	-80.168	35	0.033	2	-8.838	33	-0.506	27	0	1	-2.615	32
53		N17	max	103.799	35	8.707	24	34.561	29	0.529	33	0	35	2.858	26
54			min	-105.682	25	0.029	2	-8.817	35	-0.595	27	0	1	-2.617	32
55		N24	max	104.638	25	8.65	24	9.126	33	0.529	33	0	35	2.844	26
56			min	-104.425	35	-0.065	2	-32.59	31	-0.595	27	0	1	-2.608	32
57	P8	N49	max	37.747	33	8.262	29	189.168	31	0.139	25	0.002	18	1.41	29
58			min	-40.585	27	0.45	2	-62.096	33	-0.139	27	0	20	-0.213	35
59		N44	max	37.605	35	8.26	31	61.838	35	0.139	33	0	20	1.405	31
60			min	-40.828	25	0.447	2	-191.159	29	-0.139	27	-0.001	18	-0.213	33
61		N48	max	126.513	27	7.63	8	77.283	33	0.3	25	0	35	1.405	31
62			min	-124.083	33	-0.461	2	-92.064	31	-0.282	35	0	1	-0.213	33
63		N47	max	127.289	25	7.653	8	94.034	29	0.3	25	0	35	1.41	29
64			min	-123.621	35	-0.436	2	-76.988	35	-0.282	35	0	1	-0.214	35

Load Combination Design

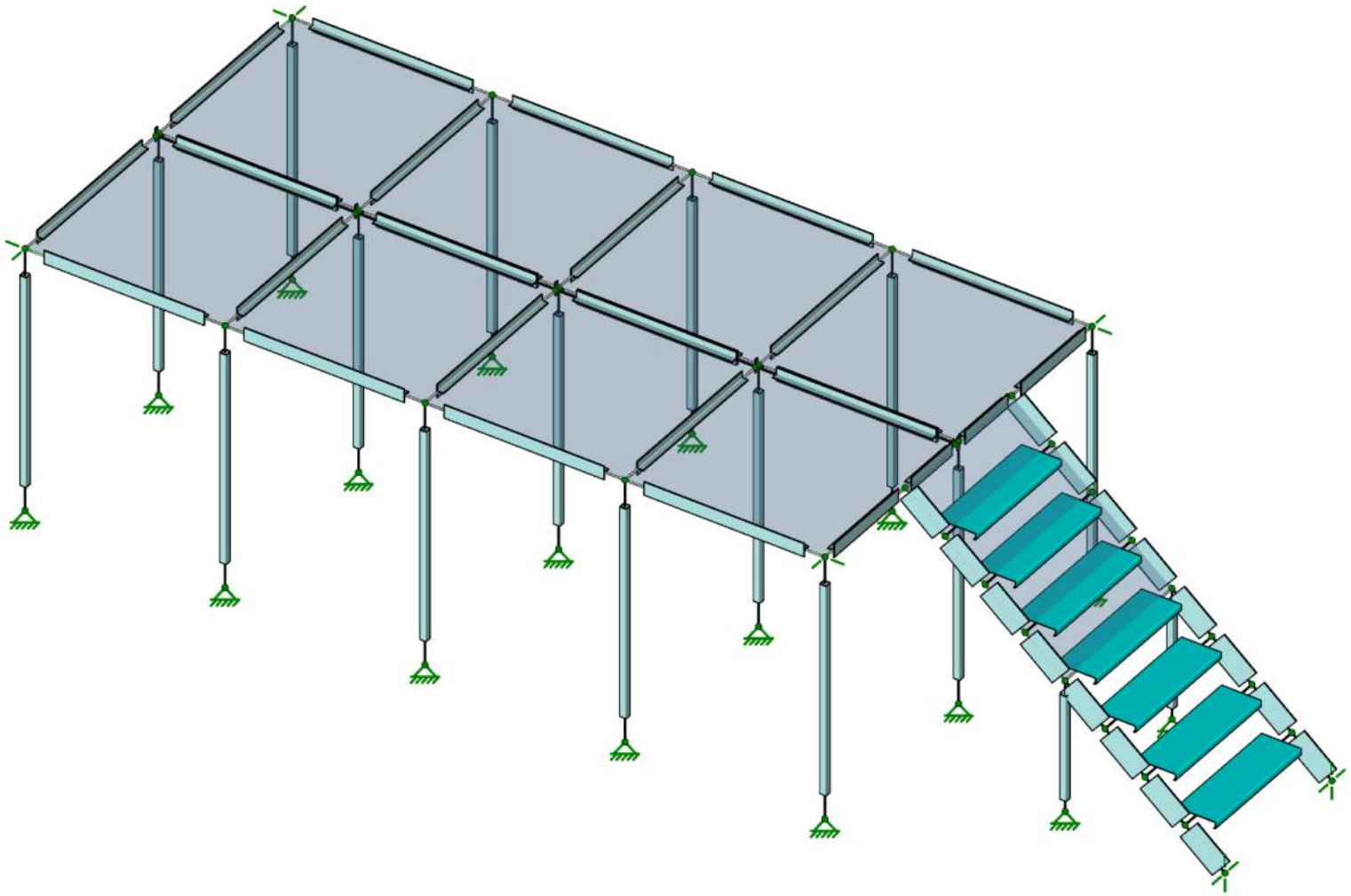
	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
1	Deflection 1		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	Deflection 2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	Deflection 3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	IBC 21/ASCE ASD 1	0.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	IBC 21/ASCE ASD 2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	IBC 21/ASCE ASD 3 (b)	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	IBC 21/ASCE ASD 4 (b)	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8	IBC 21/ASCE ASD 5 (a) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	IBC 21/ASCE ASD 5 (a) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	IBC 21/ASCE ASD 5 (a) (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	IBC 21/ASCE ASD 5 (a) (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12	IBC 21/ASCE ASD 6 (a) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13	IBC 21/ASCE ASD 6 (a) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14	IBC 21/ASCE ASD 6 (a) (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
15	IBC 21/ASCE ASD 6 (a) (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
16	IBC 21/ASCE ASD 6 (b) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
17	IBC 21/ASCE ASD 6 (b) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
18	IBC 21/ASCE ASD 6 (b) (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19	IBC 21/ASCE ASD 6 (b) (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
20	IBC 21/ASCE ASD 7 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
21	IBC 21/ASCE ASD 7 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
22	IBC 21/ASCE ASD 7 (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
23	IBC 21/ASCE ASD 7 (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Load Combination Design (Continued)

	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
24	IBC 21/ASCE ASD 8 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
25	IBC 21/ASCE ASD 8 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
26	IBC 21/ASCE ASD 8 (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
27	IBC 21/ASCE ASD 8 (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
28	IBC 21/ASCE ASD 9 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
29	IBC 21/ASCE ASD 9 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
30	IBC 21/ASCE ASD 9 (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
31	IBC 21/ASCE ASD 9 (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
32	IBC 21/ASCE ASD 10 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
33	IBC 21/ASCE ASD 10 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
34	IBC 21/ASCE ASD 10 (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
35	IBC 21/ASCE ASD 10 (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

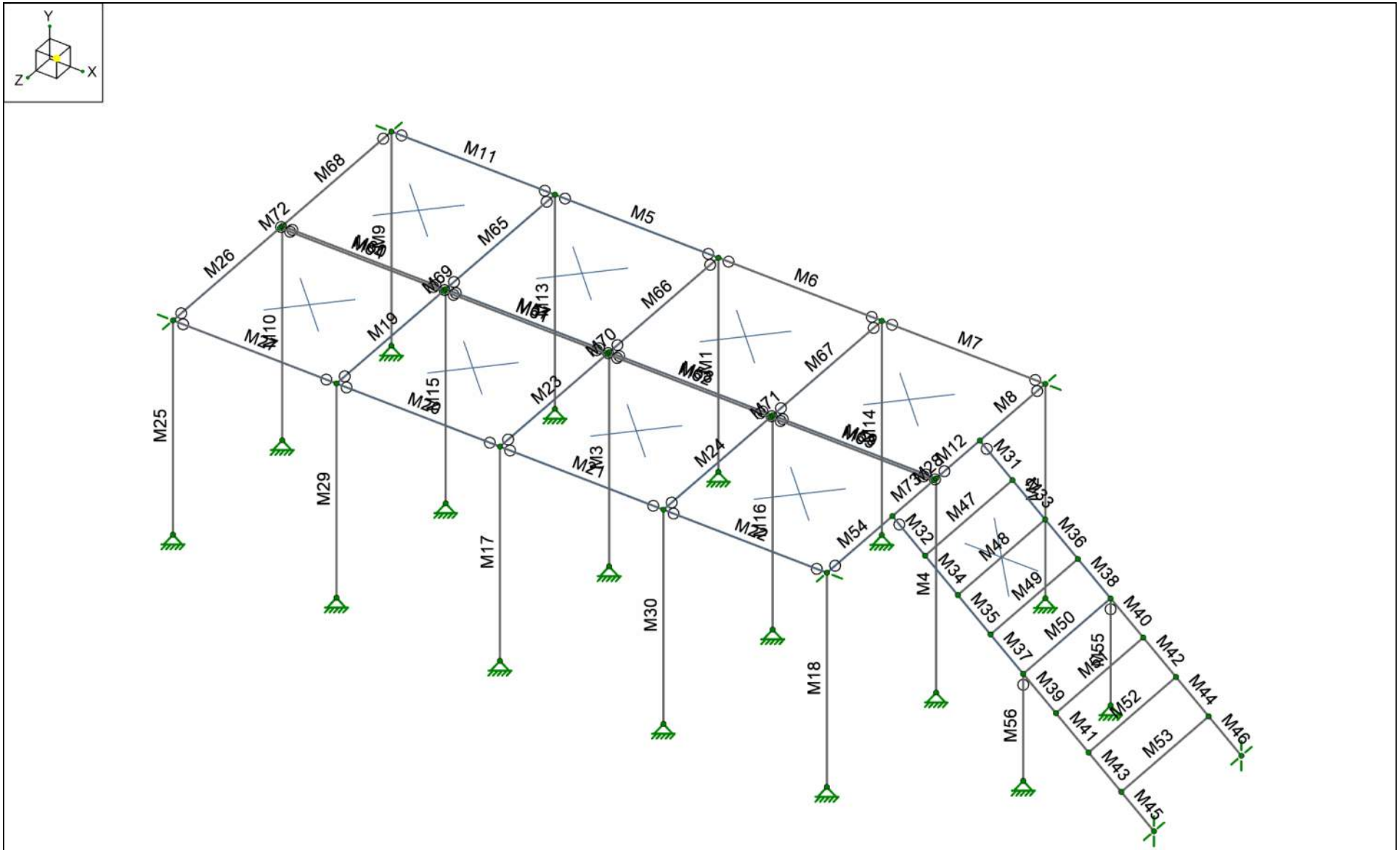
ACCESS PLATFORM AND STAIR STRUCTURAL CALCULATIONS

DOUBLE WIDTH PLATFORM



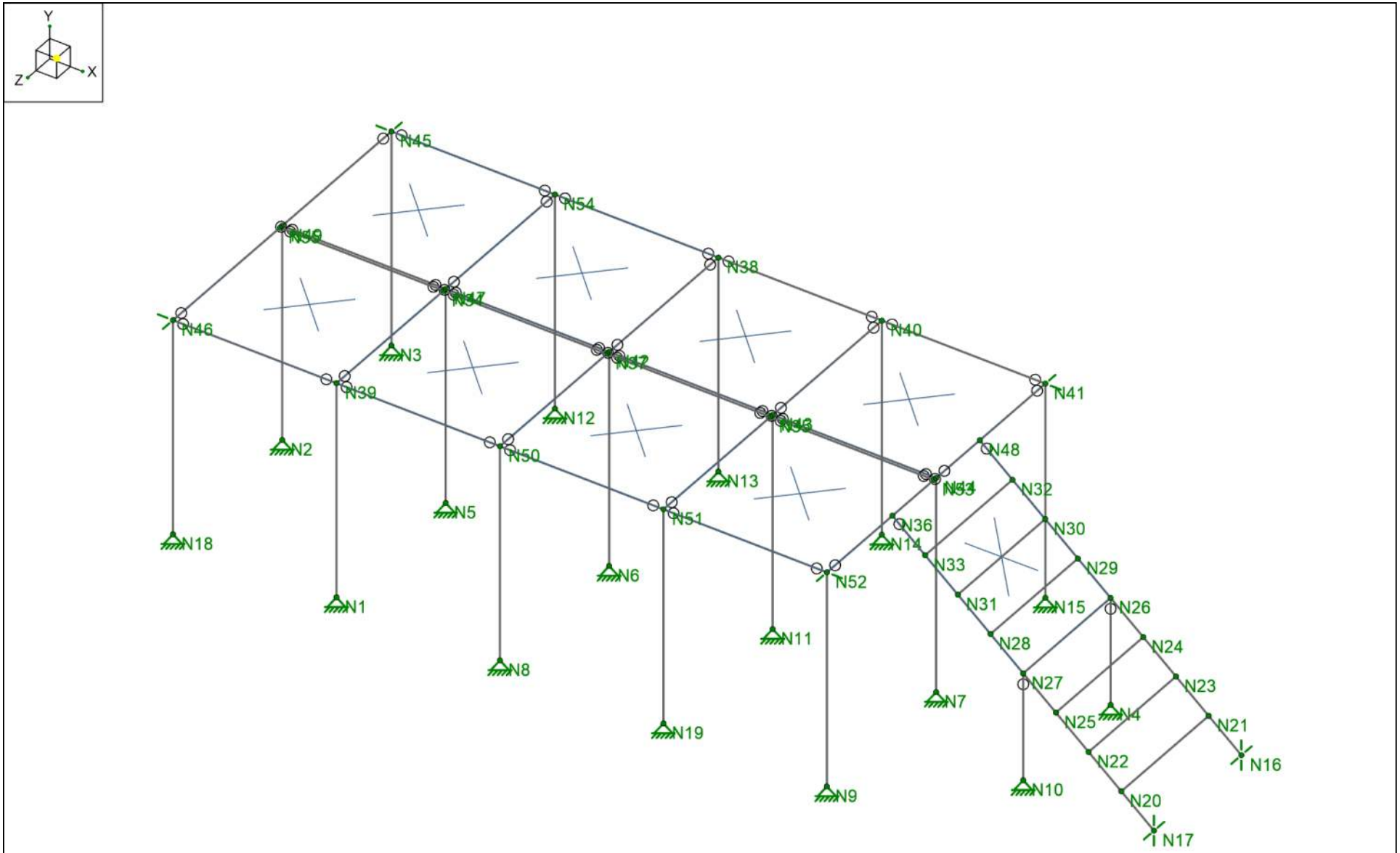
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Gravity Only	SK-1
	AMP		Dec 27, 2024 at 10:49 AM
	2241015.20		Access Platform with Stair - Dbl Gravity …



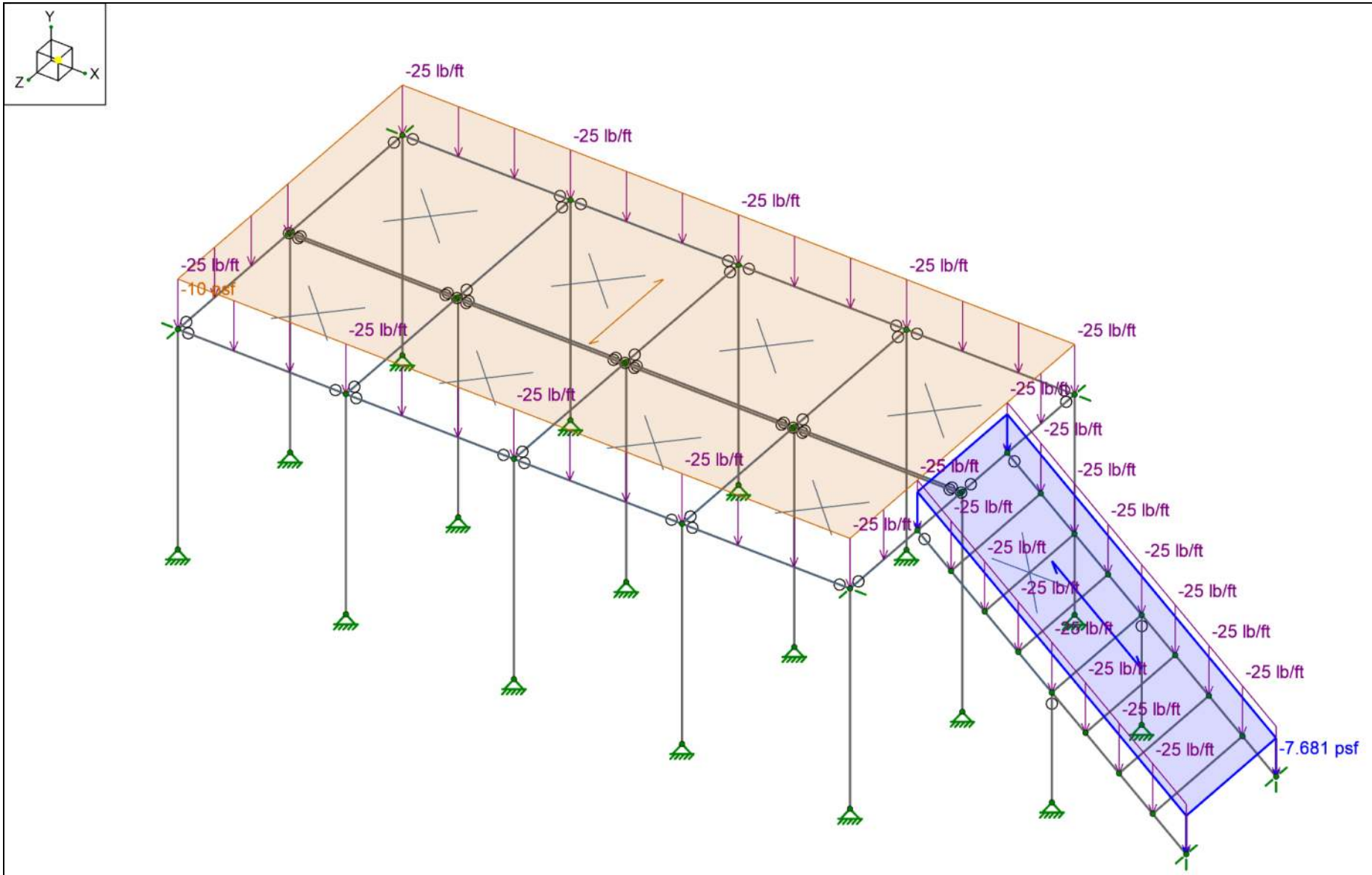
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Gravity Only	SK-2
	AMP		Dec 27, 2024 at 10:49 AM
	2241015.20		Access Platform with Stair - Dbl Gravity …



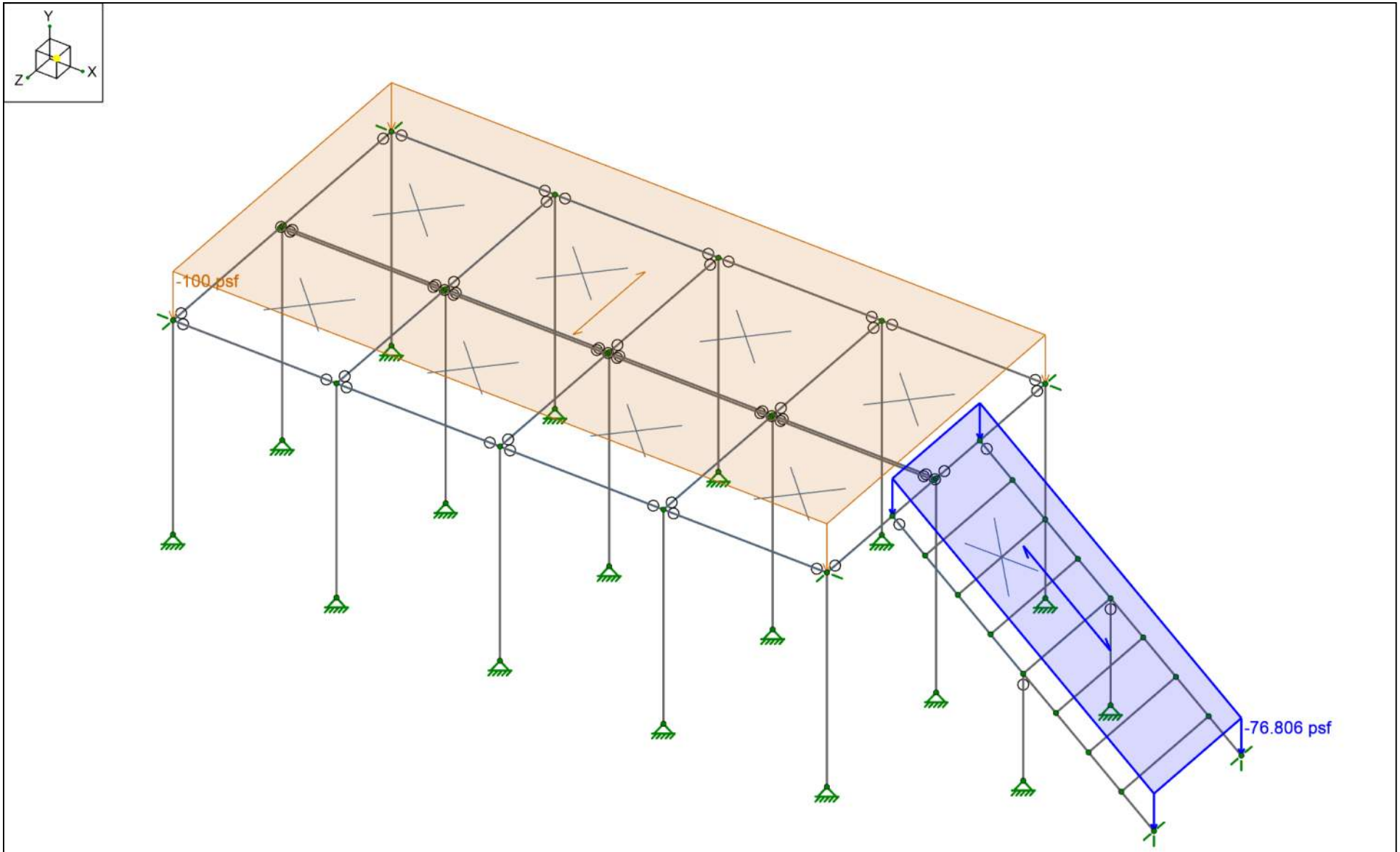
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Gravity Only	SK-3
	AMP		Dec 27, 2024 at 10:50 AM
	2241015.20		Access Platform with Stair - Dbl Gravity …



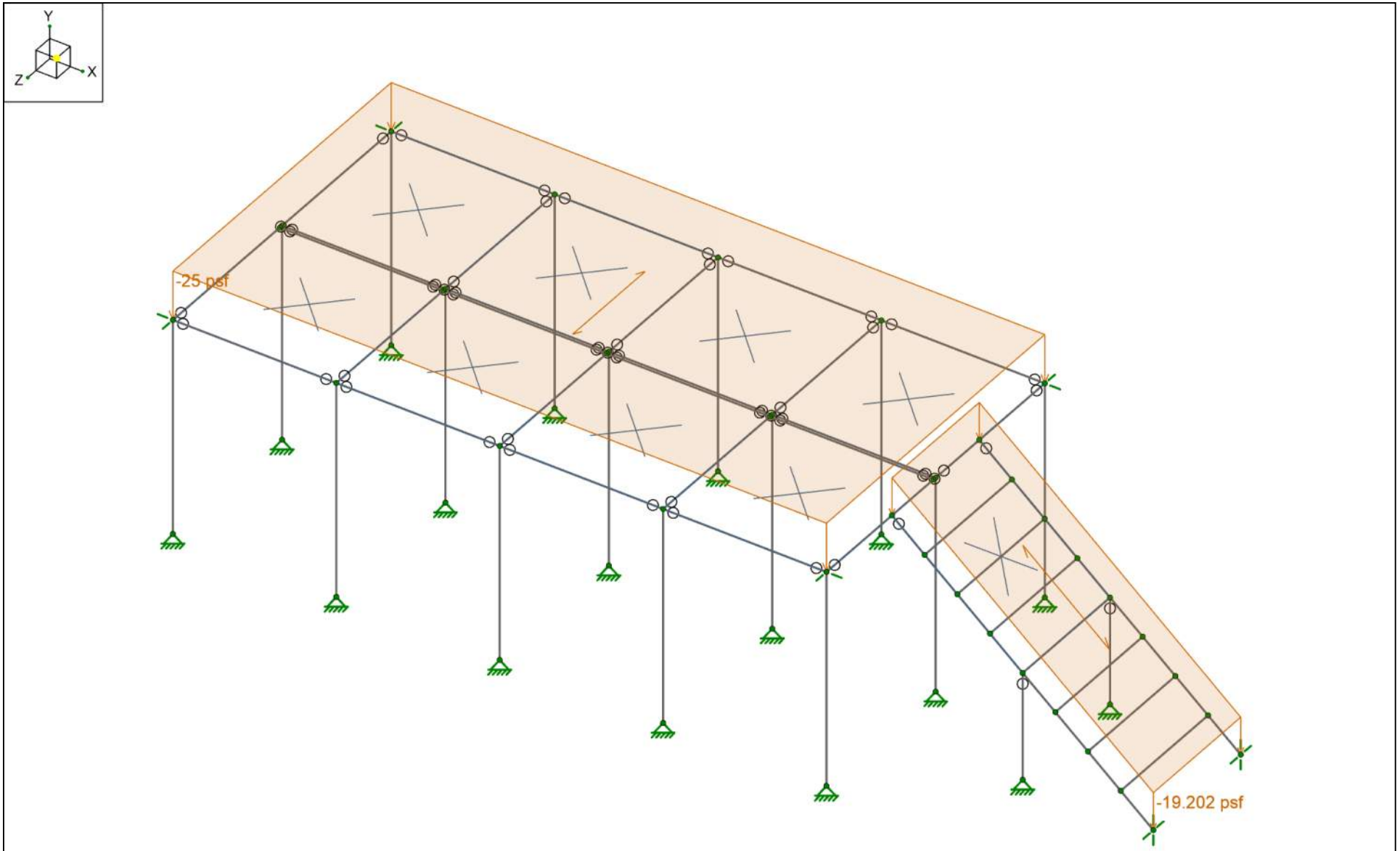
Loads: BLC 1, Dead
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Gravity Only	SK-4
	AMP		Dec 27, 2024 at 10:50 AM
	2241015.20		Access Platform with Stair - Dbl Gravity …



Loads: BLC 2, Live
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Gravity Only	SK-5
	AMP		Dec 27, 2024 at 10:50 AM
	2241015.20		Access Platform with Stair - Dbl Gravity …



Loads: BLC 3, Snow
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Access Platform - Gravity Only	SK-6
	AMP		Dec 27, 2024 at 10:50 AM
	2241015.20		Access Platform with Stair - Dbl Gravity …

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	N1	5	0	10	
2	N2	0	0	5	
3	N3	0	0	0	
4	N4	24	0	3	
5	N5	5	0	5	
6	N6	10	0	5	
7	N7	20	0	5	
8	N8	10	0	10	
9	N9	20	0	10	
10	N10	24	0	7	
11	N11	15	0	5	
12	N12	5	0	0	
13	N13	10	0	0	
14	N14	15	0	0	
15	N15	20	0	0	
16	N16	28	0	3	
17	N17	28	0	7	
18	N18	0	0	10	
19	N19	15	0	10	
20	N20	27	0.83375	7	
21	N21	27	0.83375	3	
22	N22	26	1.6675	7	
23	N23	26	1.6675	3	
24	N24	25	2.50125	3	
25	N25	25	2.50125	7	
26	N26	24	3.33	3	
27	N27	24	3.33	7	
28	N28	23	4.16375	7	
29	N29	23	4.16375	3	
30	N30	22	4.9975	3	
31	N31	22	4.9975	7	
32	N32	21	5.83125	3	
33	N33	21	5.83125	7	
34	N34	5	6.67	5.1	
35	N35	15	6.67	5.1	
36	N36	20	6.67	7	
37	N37	10	6.67	5.1	
38	N38	10	6.67	0	
39	N39	5	6.67	10	
40	N40	15	6.67	0	
41	N41	20	6.67	0	
42	N42	10	6.67	5	
43	N43	15	6.67	5	
44	N44	20	6.67	5	
45	N45	0	6.67	0	
46	N46	0	6.67	10	
47	N47	5	6.67	5	
48	N48	20	6.67	3	
49	N49	0	6.67	5	
50	N50	10	6.67	10	
51	N51	15	6.67	10	
52	N52	20	6.67	10	
53	N53	20	6.67	5.1	
54	N54	5	6.67	0	
55	N55	0	6.67	5.1	

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
1	N15	Reaction	Reaction	Reaction
2	N14	Reaction	Reaction	Reaction
3	N13	Reaction	Reaction	Reaction
4	N12	Reaction	Reaction	Reaction
5	N11	Reaction	Reaction	Reaction
6	N7	Reaction	Reaction	Reaction
7	N6	Reaction	Reaction	Reaction
8	N5	Reaction	Reaction	Reaction
9	N3	Reaction	Reaction	Reaction
10	N2	Reaction	Reaction	Reaction
11	N19	Reaction	Reaction	Reaction
12	N9	Reaction	Reaction	Reaction
13	N8	Reaction	Reaction	Reaction
14	N1	Reaction	Reaction	Reaction
15	N18	Reaction	Reaction	Reaction
16	N16		Reaction	Reaction
17	N17		Reaction	Reaction
18	N4	Reaction	Reaction	Reaction
19	N41	Reaction		Reaction
20	N10	Reaction	Reaction	Reaction
21	N45	Reaction		Reaction
22	N52	Reaction		Reaction
23	N46	Reaction		Reaction

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	0.3	0.65	0.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	0.3	0.65	0.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
9	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1

Cold Formed Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Fu [ksi]
1	A653 SS Gr33	29500	11346	0.3	0.65	0.49	33	45
2	A653 SS Gr50/1	29500	11346	0.3	0.65	0.49	50	65

Wood Properties

	Label	Type	Database	Species	Grade	Cm	Ci	Emod	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]
1	DF	Solid Sawn	Visually Graded	Douglas Fir-Larch	No.1			1	0.3	0.3	0.035
2	SP	Solid Sawn	Visually Graded	Southern Pine	No.1			1	0.3	0.3	0.035
3	HF	Solid Sawn	Visually Graded	Hem-Fir	No.1			1	0.3	0.3	0.035
4	SPF	Solid Sawn	Visually Graded	Spruce-Pine-fir	No.1			1	0.3	0.3	0.035
5	24F-1.8E DF Balanced	Glulam	NDS Table 5A	24F-1.8E_DF_BAL	na			1	0.3	0.3	0.035
6	24F-1.8E DF Unbalanced	Glulam	NDS Table 5A	24F-1.8E_DF_UNBAL	na			1	0.3	0.3	0.035
7	24F-1.8E SP Balanced	Glulam	NDS Table 5A	24F-1.8E_SP_BAL	na			1	0.3	0.3	0.035

Wood Properties (Continued)

	Label	Type	Database	Species	Grade	Cm	Ci	Emod	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]
8	24F-1.8E SP Unbalanced	Glulam	NDS Table 5A	24F-1.8E_SP_UNBAL	na			1	0.3	0.3	0.035
9	1.3E-1600F_VERSALAM	SCL	Boise Cascade	1.3E-1600F_VERSALAM	na			1	0.3	0.3	0.035
10	1.35E LSL_SolidStart	SCL	Louisiana Pacific	1.35E LSL_SolidStart	na			1	0.3	0.3	0.035
11	1.3E_RIGIDLAM LVL	SCL	Roseburg Forest Products_2012	1.3E_RIGIDLAM LVL	na			1	0.3	0.3	0.035
12	2.0E_DF Parallam PSL	SCL	TrusJoist	2.0E_DF Parallam PSL	na			1	0.3	0.3	0.035
13	LVL_PRL_1.5E_2250F	Custom	N/A	LVL_PRL_1.5E_2250F	na			1	0.3	0.3	0.035
14	LVL_Microlam_1.9E_2600F	Custom	N/A	LVL_Microllam_1.9E_2600F	na			1	0.3	0.3	0.035
15	PSL_Parallam_2.0E_2900F	Custom	N/A	PSL_Parallam_2.0E_2900F	na			1	0.3	0.3	0.035
16	LSL_TimberStrand_1.55E_2325F	Custom	N/A	LSL_TimberStrand_1.55E_2325F	na			1	0.3	0.3	0.035

Concrete Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	f'c [ksi]	Lambda	Flex Steel [ksi]	Shear Steel [ksi]
1	Conc3000NW	3156	1372	0.15	0.6	0.145	3	1	60	60
2	Conc3500NW	3409	1482	0.15	0.6	0.145	3.5	1	60	60
3	Conc4000NW	3644	1584	0.15	0.6	0.145	4	1	60	60
4	Conc3000LW	2085	907	0.15	0.6	0.11	3	0.75	60	60
5	Conc3500LW	2252	979	0.15	0.6	0.11	3.5	0.75	60	60
6	Conc4000LW	2408	1047	0.15	0.6	0.11	4	0.75	60	60

Masonry Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Self Weight [k/ft³]	f'm [ksi]	Flex Steel [ksi]	Shear Steel [ksi]
1	Concrete Matl	1350	540	0.25	0.6	Custom	1.5	60	60
2	Clay Matl	1050	420	0.25	0.6	Custom	1.5	60	60
3	Gen Masonry	1050	420	0.25	0.6	0.08	1.5	60	60

Aluminum Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Table B.4	kt	Ftu [ksi]	Fty [ksi]	Fcy [ksi]	Fsu [ksi]	Ct
1	3003-H14	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	19	16	13	12	141
2	6061-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	38	35	35	24	141
3	6063-T5	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	22	16	16	13	141
4	6063-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	30	25	25	19	141
5	5052-H34	10200	3787.5	0.33	1.3	0.173	Table B.4-1	1	34	26	24	20	141
6	6061-T6 W	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	24	15	15	15	141

Stainless Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	n	Yield [ksi]	Fu [ksi]
1	A276 S316	28000	10780	0.3	0.93	0.5	5.6	30	75
2	A276 S321	29000	11165	0.3	0.73	0.48	5.6	65	94
3	A276 S304	28000	10780	0.3	0.93	0.49	5.6	30	75

General Materials Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Plate Methodology
1	gen_Conc3NW	3155	1372	0.15	0.6	0.145	Isotropic
2	gen_Conc4NW	3644	1584	0.15	0.6	0.145	Isotropic
3	gen_Conc3LW	2085	906	0.15	0.6	0.11	Isotropic
4	gen_Conc4LW	2408	1047	0.15	0.6	0.11	Isotropic
5	gen_Alum	10100	4077	0.3	1.29	0.173	Isotropic
6	gen_Steel	29000	11154	0.3	0.65	0.49	Isotropic
7	gen_Plywood	1800	38	0	0.3	0.035	Isotropic

General Materials Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Plate Methodology
8	RIGID	1e+6		0.3	0	0	Isotropic
9	gen_Ortho				0.65	0.49	Orthotropic

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Stair Tread	1200S200-97	Beam	CS	A653 SS Gr50/1	Typical	1.68	0.635	30.4	0.006

Aluminum Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Ramp Header	RT1.5X1.5X.120	Beam	None	6061-T6	Typical	0.662	0.212	0.212	0.315
2	Ramp Stringer	L4X2X1/4	Beam	None	6061-T6	Typical	1.438	0.421	2.406	0.028
3	Ramp End Member	EDGEBEAM	Beam	None	6061-T6	Typical	1.438	1.336	0.421	0.03
4	Stair Stringer	0.25X8STRINGER	Beam	None	6061-T6	Typical	2	0.01	10.667	0.041
5	RAILING	RT1.5X1.5X0.125	Beam	None	6063-T5	Typical	0.688	0.218	0.218	0.325
6	Post	RT2X2X0.125	Column	Rectangular Tubes	6061-T6	Typical	0.938	0.552	0.552	0.824
7	Landing Edge Bm	EDGEBEAM	Beam	None	6061-T6	Typical	1.438	1.336	0.421	0.03
8	L Brace	L1.5X1.5X0.25	VBrace	None	6061-T6	Typical	0.688	0.135	0.135	0.013

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N13	N38		Post	Column	Rectangular Tubes	6061-T6	Typical
2	M2	N15	N41		Post	Column	Rectangular Tubes	6061-T6	Typical
3	M3	N6	N42		Post	Column	Rectangular Tubes	6061-T6	Typical
4	M4	N7	N44		Post	Column	Rectangular Tubes	6061-T6	Typical
5	M5	N54	N38	270	Landing Edge Bm	Beam	None	6061-T6	Typical
6	M6	N38	N40	270	Landing Edge Bm	Beam	None	6061-T6	Typical
7	M7	N40	N41	270	Landing Edge Bm	Beam	None	6061-T6	Typical
8	M8	N41	N48	270	Landing Edge Bm	Beam	None	6061-T6	Typical
9	M9	N3	N45		Post	Column	Rectangular Tubes	6061-T6	Typical
10	M10	N2	N49		Post	Column	Rectangular Tubes	6061-T6	Typical
11	M11	N45	N54	270	Landing Edge Bm	Beam	None	6061-T6	Typical
12	M12	N48	N44	270	Landing Edge Bm	Beam	None	6061-T6	Typical
13	M13	N12	N54		Post	Column	Rectangular Tubes	6061-T6	Typical
14	M14	N14	N40		Post	Column	Rectangular Tubes	6061-T6	Typical
15	M15	N5	N47		Post	Column	Rectangular Tubes	6061-T6	Typical
16	M16	N11	N43		Post	Column	Rectangular Tubes	6061-T6	Typical
17	M17	N8	N50		Post	Column	Rectangular Tubes	6061-T6	Typical
18	M18	N9	N52		Post	Column	Rectangular Tubes	6061-T6	Typical
19	M19	N39	N34	270	Landing Edge Bm	Beam	None	6061-T6	Typical
20	M20	N50	N39	270	Landing Edge Bm	Beam	None	6061-T6	Typical
21	M21	N51	N50	270	Landing Edge Bm	Beam	None	6061-T6	Typical
22	M22	N52	N51	270	Landing Edge Bm	Beam	None	6061-T6	Typical
23	M23	N50	N37	270	Landing Edge Bm	Beam	None	6061-T6	Typical
24	M24	N51	N35	270	Landing Edge Bm	Beam	None	6061-T6	Typical
25	M25	N18	N46		Post	Column	Rectangular Tubes	6061-T6	Typical
26	M26	N46	N55	270	Landing Edge Bm	Beam	None	6061-T6	Typical
27	M27	N39	N46	270	Landing Edge Bm	Beam	None	6061-T6	Typical
28	M28	N44	N53	270	Landing Edge Bm	Beam	None	6061-T6	Typical
29	M29	N1	N39		Post	Column	Rectangular Tubes	6061-T6	Typical
30	M30	N19	N51		Post	Column	Rectangular Tubes	6061-T6	Typical
31	M31	N48	N32		Stair Stringer	Beam	None	6061-T6	Typical
32	M32	N36	N33		Stair Stringer	Beam	None	6061-T6	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
33	M33	N32	N30		Stair Stringer	Beam	None	6061-T6	Typical
34	M34	N33	N31		Stair Stringer	Beam	None	6061-T6	Typical
35	M35	N31	N28		Stair Stringer	Beam	None	6061-T6	Typical
36	M36	N30	N29		Stair Stringer	Beam	None	6061-T6	Typical
37	M37	N28	N27		Stair Stringer	Beam	None	6061-T6	Typical
38	M38	N29	N26		Stair Stringer	Beam	None	6061-T6	Typical
39	M39	N27	N25		Stair Stringer	Beam	None	6061-T6	Typical
40	M40	N26	N24		Stair Stringer	Beam	None	6061-T6	Typical
41	M41	N25	N22		Stair Stringer	Beam	None	6061-T6	Typical
42	M42	N24	N23		Stair Stringer	Beam	None	6061-T6	Typical
43	M43	N22	N20		Stair Stringer	Beam	None	6061-T6	Typical
44	M44	N23	N21		Stair Stringer	Beam	None	6061-T6	Typical
45	M45	N20	N17		Stair Stringer	Beam	None	6061-T6	Typical
46	M46	N21	N16		Stair Stringer	Beam	None	6061-T6	Typical
47	M47	N33	N32	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
48	M48	N31	N30	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
49	M49	N28	N29	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
50	M50	N27	N26	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
51	M51	N25	N24	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
52	M52	N22	N23	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
53	M53	N20	N21	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
54	M54	N36	N52	270	Landing Edge Bm	Beam	None	6061-T6	Typical
55	M55	N4	N26		Post	Column	Rectangular Tubes	6061-T6	Typical
56	M56	N10	N27		Post	Column	Rectangular Tubes	6061-T6	Typical
57	M57	N42	N47	270	Landing Edge Bm	Beam	None	6061-T6	Typical
58	M58	N43	N42	270	Landing Edge Bm	Beam	None	6061-T6	Typical
59	M59	N44	N43	270	Landing Edge Bm	Beam	None	6061-T6	Typical
60	M60	N47	N49	270	Landing Edge Bm	Beam	None	6061-T6	Typical
61	M61	N37	N34	90	Landing Edge Bm	Beam	None	6061-T6	Typical
62	M62	N35	N37	90	Landing Edge Bm	Beam	None	6061-T6	Typical
63	M63	N53	N35	90	Landing Edge Bm	Beam	None	6061-T6	Typical
64	M64	N34	N55	90	Landing Edge Bm	Beam	None	6061-T6	Typical
65	M65	N47	N54	270	Landing Edge Bm	Beam	None	6061-T6	Typical
66	M66	N42	N38	270	Landing Edge Bm	Beam	None	6061-T6	Typical
67	M67	N43	N40	270	Landing Edge Bm	Beam	None	6061-T6	Typical
68	M68	N49	N45	270	Landing Edge Bm	Beam	None	6061-T6	Typical
69	M69	N34	N47	270	Landing Edge Bm	Beam	None	6061-T6	Typical
70	M70	N37	N42	270	Landing Edge Bm	Beam	None	6061-T6	Typical
71	M71	N35	N43	270	Landing Edge Bm	Beam	None	6061-T6	Typical
72	M72	N55	N49	270	Landing Edge Bm	Beam	None	6061-T6	Typical
73	M73	N53	N36	270	Landing Edge Bm	Beam	None	6061-T6	Typical

Member Advanced Data

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
1	M1					** NA **	None
2	M2					** NA **	None
3	M3					** NA **	None
4	M4					** NA **	None
5	M5	BenPIN	BenPIN			Default	None
6	M6	BenPIN	BenPIN			Default	None
7	M7	BenPIN	BenPIN			Default	None
8	M8	BenPIN				Default	None
9	M9					** NA **	None
10	M10					** NA **	None
11	M11	BenPIN	BenPIN			Default	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
12	M12		BenPIN			Default	None
13	M13					** NA **	None
14	M14					** NA **	None
15	M15					** NA **	None
16	M16					** NA **	None
17	M17					** NA **	None
18	M18					** NA **	None
19	M19	BenPIN				Default	None
20	M20	BenPIN	BenPIN			Default	None
21	M21	BenPIN	BenPIN			Default	None
22	M22	BenPIN	BenPIN			Default	None
23	M23	BenPIN				Default	None
24	M24	BenPIN				Default	None
25	M25					** NA **	None
26	M26	BenPIN				Default	None
27	M27	BenPIN	BenPIN			Default	None
28	M28	BenPIN				Default	None
29	M29					** NA **	None
30	M30					** NA **	None
31	M31	BenPIN				Default	None
32	M32	BenPIN				Default	None
33	M33					Default	None
34	M34					Default	None
35	M35					Default	None
36	M36					Default	None
37	M37					Default	None
38	M38					Default	None
39	M39					Default	None
40	M40					Default	None
41	M41					Default	None
42	M42					Default	None
43	M43					Default	None
44	M44					Default	None
45	M45					Default	None
46	M46					Default	None
47	M47					Default	None
48	M48					Default	None
49	M49					Default	None
50	M50					Default	None
51	M51					Default	None
52	M52					Default	None
53	M53					Default	None
54	M54		BenPIN			Default	None
55	M55		BenPIN			** NA **	None
56	M56		BenPIN			** NA **	None
57	M57	BenPIN	BenPIN			Default	None
58	M58	BenPIN	BenPIN			Default	None
59	M59	BenPIN	BenPIN			Default	None
60	M60	BenPIN	BenPIN			Default	None
61	M61	BenPIN	BenPIN			Default	None
62	M62	BenPIN	BenPIN			Default	None
63	M63	BenPIN	BenPIN			Default	None
64	M64	BenPIN	BenPIN			Default	None
65	M65	BenPIN	BenPIN			Default	None
66	M66	BenPIN	BenPIN			Default	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
67	M67	BenPIN	BenPIN			Default	None
68	M68		BenPIN			Default	None
69	M69		BenPIN			Default	None
70	M70		BenPIN			Default	None
71	M71		BenPIN			Default	None
72	M72		BenPIN			Default	None
73	M73					Default	None

Cold Formed Steel Design Parameters

	Label	Shape	Length [ft]	Lcomp top [ft]	Function
1	M47	Stair Tread	4	Lbyy	Lateral
2	M48	Stair Tread	4	Lbyy	Lateral
3	M49	Stair Tread	4	Lbyy	Lateral
4	M50	Stair Tread	4	Lbyy	Lateral
5	M51	Stair Tread	4	Lbyy	Lateral
6	M52	Stair Tread	4	Lbyy	Lateral
7	M53	Stair Tread	4	Lbyy	Lateral

Aluminum Design Parameters

	Label	Shape	Length [ft]	Lb y-y [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
1	M1	Post	6.67		Lbyy		Lateral
2	M2	Post	6.67		Lbyy		Lateral
3	M3	Post	6.67		Lbyy		Lateral
4	M4	Post	6.67		Lbyy		Lateral
5	M5	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
6	M6	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
7	M7	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
8	M8	Landing Edge Bm	3		Lbyy		Lateral
9	M9	Post	6.67		Lbyy		Lateral
10	M10	Post	6.67		Lbyy		Lateral
11	M11	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
12	M12	Landing Edge Bm	2		Lbyy		Lateral
13	M13	Post	6.67		Lbyy		Lateral
14	M14	Post	6.67		Lbyy		Lateral
15	M15	Post	6.67		Lbyy		Lateral
16	M16	Post	6.67		Lbyy		Lateral
17	M17	Post	6.67		Lbyy		Lateral
18	M18	Post	6.67		Lbyy		Lateral
19	M19	Landing Edge Bm	4.9		Lbyy		Lateral
20	M20	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
21	M21	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
22	M22	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
23	M23	Landing Edge Bm	4.9		Lbyy		Lateral
24	M24	Landing Edge Bm	4.9		Lbyy		Lateral
25	M25	Post	6.67		Lbyy		Lateral
26	M26	Landing Edge Bm	4.9		Lbyy		Lateral
27	M27	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
28	M28	Landing Edge Bm	0.1		Lbyy		Lateral
29	M29	Post	6.67		Lbyy		Lateral
30	M30	Post	6.67		Lbyy		Lateral
31	M31	Stair Stringer	1.305	1	Lbyy	Lbyy	Lateral
32	M32	Stair Stringer	1.305	1	Lbyy	Lbyy	Lateral
33	M33	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral

Aluminum Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
34	M34	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
35	M35	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
36	M36	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
37	M37	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
38	M38	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
39	M39	Stair Stringer	1.299	1	Lbyy	Lbyy	Lateral
40	M40	Stair Stringer	1.299	1	Lbyy	Lbyy	Lateral
41	M41	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
42	M42	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
43	M43	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
44	M44	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
45	M45	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
46	M46	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
47	M54	Landing Edge Bm	3		Lbyy		Lateral
48	M55	Post	3.33		Lbyy		Lateral
49	M56	Post	3.33		Lbyy		Lateral
50	M57	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
51	M58	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
52	M59	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
53	M60	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
54	M61	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
55	M62	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
56	M63	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
57	M64	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
58	M65	Landing Edge Bm	5		Lbyy		Lateral
59	M66	Landing Edge Bm	5		Lbyy		Lateral
60	M67	Landing Edge Bm	5		Lbyy		Lateral
61	M68	Landing Edge Bm	5		Lbyy		Lateral
62	M69	Landing Edge Bm	0.1		Lbyy		Lateral
63	M70	Landing Edge Bm	0.1		Lbyy		Lateral
64	M71	Landing Edge Bm	0.1		Lbyy		Lateral
65	M72	Landing Edge Bm	0.1		Lbyy		Lateral
66	M73	Landing Edge Bm	1.9		Lbyy		Lateral

Plate Primary Data

	Label	A Node	B Node	C Node	D Node	Material	Thickness [in]
1	P1	N47	N54	N38	N42	gen_Steel	0.03
2	P2	N42	N38	N40	N43	gen_Steel	0.03
3	P3	N43	N40	N41	N44	gen_Steel	0.03
4	P4	N49	N45	N54	N47	gen_Steel	0.03
5	P5	N39	N47	N42	N50	gen_Steel	0.03
6	P6	N50	N42	N43	N51	gen_Steel	0.03
7	P7	N51	N43	N44	N52	gen_Steel	0.03
8	P8	N46	N49	N47	N39	gen_Steel	0.03
9	P9	N36	N48	N26	N27	gen_Steel	0.03

Plate Advanced Data

	Label	Plane Stress	Rotate
1	P1		0
2	P2		0
3	P3		0
4	P4		0
5	P5		0

Plate Advanced Data (Continued)

	Label	Plane Stress	Rotate
6	P6		0
7	P7		0
8	P8		0
9	P9		0

Nodal Loads and Enforced Displacements

No Data to Print...

Member Point Loads

No Data to Print...

Member Distributed Loads (BLC 1 : Dead)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M11	Y	-25	-25	0	%100
2	M5	Y	-25	-25	0	%100
3	M6	Y	-25	-25	0	%100
4	M7	Y	-25	-25	0	%100
5	M22	Y	-25	-25	0	%100
6	M21	Y	-25	-25	0	%100
7	M20	Y	-25	-25	0	%100
8	M27	Y	-25	-25	0	%100
9	M26	Y	-25	-25	0	%100
10	M54	Y	-25	-25	0	%100
11	M8	Y	-25	-25	0	%100
12	M31	Y	-25	-25	0	%100
13	M33	Y	-25	-25	0	%100
14	M36	Y	-25	-25	0	%100
15	M38	Y	-25	-25	0	%100
16	M40	Y	-25	-25	0	%100
17	M42	Y	-25	-25	0	%100
18	M44	Y	-25	-25	0	%100
19	M46	Y	-25	-25	0	%100
20	M32	Y	-25	-25	0	%100
21	M34	Y	-25	-25	0	%100
22	M35	Y	-25	-25	0	%100
23	M37	Y	-25	-25	0	%100
24	M39	Y	-25	-25	0	%100
25	M41	Y	-25	-25	0	%100
26	M43	Y	-25	-25	0	%100
27	M45	Y	-25	-25	0	%100

Member Distributed Loads (BLC 4 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M5	Y	-25.88	-25.879	0	0.5
2	M5	Y	-25.879	-25.887	0.5	1
3	M5	Y	-25.887	-25.906	1	1.5
4	M5	Y	-25.906	-25.919	1.5	2
5	M5	Y	-25.919	-25.906	2	2.5
6	M5	Y	-25.906	-25.88	2.5	3
7	M5	Y	-25.88	-25.864	3	3.5
8	M5	Y	-25.864	-25.86	3.5	4
9	M5	Y	-25.86	-25.866	4	4.5

Member Distributed Loads (BLC 4 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
10	M5	Y	-25.866	-25.879	4.5	5
11	M6	Y	-25.908	-25.908	0.002	4.998
12	M7	Y	-25.521	-25.521	0.002	4.998
13	M11	Y	-25.88	-25.879	0	0.5
14	M11	Y	-25.879	-25.887	0.5	1
15	M11	Y	-25.887	-25.906	1	1.5
16	M11	Y	-25.906	-25.919	1.5	2
17	M11	Y	-25.919	-25.906	2	2.5
18	M11	Y	-25.906	-25.88	2.5	3
19	M11	Y	-25.88	-25.864	3	3.5
20	M11	Y	-25.864	-25.86	3.5	4
21	M11	Y	-25.86	-25.866	4	4.5
22	M11	Y	-25.866	-25.879	4.5	5
23	M20	Y	-25.468	-25.468	0.001	4.998
24	M21	Y	-25.468	-25.468	0.001	4.998
25	M22	Y	-24.979	-25.041	0	0.5
26	M22	Y	-25.041	-25.098	0.5	1
27	M22	Y	-25.098	-25.154	1	1.5
28	M22	Y	-25.154	-25.217	1.5	2
29	M22	Y	-25.217	-25.283	2	2.5
30	M22	Y	-25.283	-25.332	2.5	3
31	M22	Y	-25.332	-25.36	3	3.5
32	M22	Y	-25.36	-25.383	3.5	4
33	M22	Y	-25.383	-25.42	4	4.5
34	M22	Y	-25.42	-25.464	4.5	5
35	M27	Y	-25.468	-25.468	0.001	4.998
36	M57	Y	-25.285	-24.52	0	0.5
37	M57	Y	-24.52	-23.751	0.5	1
38	M57	Y	-23.751	-23.988	1	1.5
39	M57	Y	-23.988	-24.339	1.5	2
40	M57	Y	-24.339	-24.626	2	2.5
41	M57	Y	-24.626	-25.793	2.5	3
42	M57	Y	-25.793	-25.6	3	3.5
43	M57	Y	-25.6	-23.909	3.5	4
44	M57	Y	-23.909	-24.001	4	4.5
45	M57	Y	-24.001	-25.966	4.5	5
46	M58	Y	-25.3	-24.535	0	0.5
47	M58	Y	-24.535	-23.771	0.5	1
48	M58	Y	-23.771	-23.977	1	1.5
49	M58	Y	-23.977	-24.271	1.5	2
50	M58	Y	-24.271	-24.624	2	2.5
51	M58	Y	-24.624	-25.828	2.5	3
52	M58	Y	-25.828	-25.581	3	3.5
53	M58	Y	-25.581	-23.916	3.5	4
54	M58	Y	-23.916	-24.021	4	4.5
55	M58	Y	-24.021	-25.953	4.5	5
56	M59	Y	-25.991	-25.25	0	0.5
57	M59	Y	-25.25	-24.429	0.5	1
58	M59	Y	-24.429	-24.559	1	1.5
59	M59	Y	-24.559	-24.727	1.5	2
60	M59	Y	-24.727	-24.948	2	2.5
61	M59	Y	-24.948	-26.129	2.5	3
62	M59	Y	-26.129	-25.799	3	3.5
63	M59	Y	-25.799	-23.993	3.5	4
64	M59	Y	-23.993	-24.1	4	4.5

Member Distributed Loads (BLC 4 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
65	M59	Y	-24.1	-26.172	4.5	5
66	M60	Y	-25.213	-24.537	0	0.5
67	M60	Y	-24.537	-23.784	0.5	1
68	M60	Y	-23.784	-23.989	1	1.5
69	M60	Y	-23.989	-24.284	1.5	2
70	M60	Y	-24.284	-24.603	2	2.5
71	M60	Y	-24.603	-25.821	2.5	3
72	M60	Y	-25.821	-25.592	3	3.5
73	M60	Y	-25.592	-23.872	3.5	4
74	M60	Y	-23.872	-24.009	4	4.5
75	M60	Y	-24.009	-26.112	4.5	5
76	M61	Y	-25.444	-23.433	0	0.5
77	M61	Y	-23.433	-23.335	0.5	1
78	M61	Y	-23.335	-24.976	1	1.5
79	M61	Y	-24.976	-25.06	1.5	2
80	M61	Y	-25.06	-23.75	2	2.5
81	M61	Y	-23.75	-23.484	2.5	3
82	M61	Y	-23.484	-23.411	3	3.5
83	M61	Y	-23.411	-23.707	3.5	4
84	M61	Y	-23.707	-24.42	4	4.5
85	M61	Y	-24.42	-24.317	4.5	5
86	M62	Y	-25.435	-23.447	0	0.5
87	M62	Y	-23.447	-23.342	0.5	1
88	M62	Y	-23.342	-24.967	1	1.5
89	M62	Y	-24.967	-25.054	1.5	2
90	M62	Y	-25.054	-23.762	2	2.5
91	M62	Y	-23.762	-23.503	2.5	3
92	M62	Y	-23.503	-23.383	3	3.5
93	M62	Y	-23.383	-23.706	3.5	4
94	M62	Y	-23.706	-24.443	4	4.5
95	M62	Y	-24.443	-24.266	4.5	5
96	M63	Y	-25.917	-23.558	0	0.5
97	M63	Y	-23.558	-23.088	0.5	1
98	M63	Y	-23.088	-24.271	1	1.5
99	M63	Y	-24.271	-24.354	1.5	2
100	M63	Y	-24.354	-24.35	2	2.5
101	M63	Y	-24.35	-25.293	2.5	3
102	M63	Y	-25.293	-25.052	3	3.5
103	M63	Y	-25.052	-23.406	3.5	4
104	M63	Y	-23.406	-23.488	4	4.5
105	M63	Y	-23.488	-25.349	4.5	5
106	M64	Y	-25.286	-23.469	0	0.5
107	M64	Y	-23.469	-23.377	0.5	1
108	M64	Y	-23.377	-24.96	1	1.5
109	M64	Y	-24.96	-25.058	1.5	2
110	M64	Y	-25.058	-23.754	2	2.5
111	M64	Y	-23.754	-23.497	2.5	3
112	M64	Y	-23.497	-23.391	3	3.5
113	M64	Y	-23.391	-23.722	3.5	4
114	M64	Y	-23.722	-24.45	4	4.5
115	M64	Y	-24.45	-24.27	4.5	5
116	M12	Y	-7.939	-4.599	0	0.4
117	M12	Y	-4.599	-4.111	0.4	0.8
118	M12	Y	-4.111	-4.876	0.8	1.2
119	M12	Y	-4.876	-4.722	1.2	1.6

Member Distributed Loads (BLC 4 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
120	M12	Y	-4.722	-5.248	1.6	2
121	M28	Y	0.059	-2.697	0	0.05
122	M28	Y	-2.697	-5.689	0.05	0.1
123	M31	Y	-76.745	-76.745	0	0.125
124	M39	Y	-319.607	-319.607	1.174	1.299
125	M47	Y	-9.958	-10.056	0	0.5
126	M47	Y	-10.056	-10.291	0.5	1
127	M47	Y	-10.291	-9.927	1	1.5
128	M47	Y	-9.927	-9.556	1.5	2
129	M47	Y	-9.556	-10.211	2	2.5
130	M47	Y	-10.211	-10.401	2.5	3
131	M47	Y	-10.401	-10.093	3	3.5
132	M47	Y	-10.093	-10.048	3.5	4
133	M48	Y	-10	-10	6.634e-15	4
134	M49	Y	-10	-10	3.469e-16	4
135	M50	Y	-9.988	-9.988	1.457e-15	4
136	M52	Y	-10	-10	1.429e-14	4
137	M53	Y	-15	-15	1.429e-14	4

Member Distributed Loads (BLC 5 : BLC 2 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M5	Y	-258.801	-258.791	0	0.5
2	M5	Y	-258.791	-258.869	0.5	1
3	M5	Y	-258.869	-259.062	1	1.5
4	M5	Y	-259.062	-259.19	1.5	2
5	M5	Y	-259.19	-259.062	2	2.5
6	M5	Y	-259.062	-258.798	2.5	3
7	M5	Y	-258.798	-258.635	3	3.5
8	M5	Y	-258.635	-258.596	3.5	4
9	M5	Y	-258.596	-258.663	4	4.5
10	M5	Y	-258.663	-258.789	4.5	5
11	M6	Y	-259.079	-259.079	0.002	4.998
12	M7	Y	-255.211	-255.211	0.002	4.998
13	M11	Y	-258.801	-258.791	0	0.5
14	M11	Y	-258.791	-258.869	0.5	1
15	M11	Y	-258.869	-259.062	1	1.5
16	M11	Y	-259.062	-259.19	1.5	2
17	M11	Y	-259.19	-259.062	2	2.5
18	M11	Y	-259.062	-258.798	2.5	3
19	M11	Y	-258.798	-258.635	3	3.5
20	M11	Y	-258.635	-258.596	3.5	4
21	M11	Y	-258.596	-258.663	4	4.5
22	M11	Y	-258.663	-258.789	4.5	5
23	M20	Y	-254.681	-254.681	0.001	4.998
24	M21	Y	-254.681	-254.681	0.001	4.998
25	M22	Y	-249.793	-250.406	0	0.5
26	M22	Y	-250.406	-250.978	0.5	1
27	M22	Y	-250.978	-251.536	1	1.5
28	M22	Y	-251.536	-252.172	1.5	2
29	M22	Y	-252.172	-252.828	2	2.5
30	M22	Y	-252.828	-253.324	2.5	3
31	M22	Y	-253.324	-253.595	3	3.5
32	M22	Y	-253.595	-253.833	3.5	4
33	M22	Y	-253.833	-254.2	4	4.5
34	M22	Y	-254.2	-254.638	4.5	5

Member Distributed Loads (BLC 5 : BLC 2 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
35	M27	Y	-254.681	-254.681	0.001	4.998
36	M57	Y	-252.853	-245.196	0	0.5
37	M57	Y	-245.196	-237.509	0.5	1
38	M57	Y	-237.509	-239.882	1	1.5
39	M57	Y	-239.882	-243.394	1.5	2
40	M57	Y	-243.394	-246.262	2	2.5
41	M57	Y	-246.262	-257.933	2.5	3
42	M57	Y	-257.933	-256.002	3	3.5
43	M57	Y	-256.002	-239.089	3.5	4
44	M57	Y	-239.089	-240.014	4	4.5
45	M57	Y	-240.014	-259.661	4.5	5
46	M58	Y	-252.999	-245.35	0	0.5
47	M58	Y	-245.35	-237.705	0.5	1
48	M58	Y	-237.705	-239.772	1	1.5
49	M58	Y	-239.772	-242.707	1.5	2
50	M58	Y	-242.707	-246.241	2	2.5
51	M58	Y	-246.241	-258.281	2.5	3
52	M58	Y	-258.281	-255.807	3	3.5
53	M58	Y	-255.807	-239.164	3.5	4
54	M58	Y	-239.164	-240.207	4	4.5
55	M58	Y	-240.207	-259.527	4.5	5
56	M59	Y	-259.914	-252.502	0	0.5
57	M59	Y	-252.502	-244.289	0.5	1
58	M59	Y	-244.289	-245.595	1	1.5
59	M59	Y	-245.595	-247.269	1.5	2
60	M59	Y	-247.269	-249.481	2	2.5
61	M59	Y	-249.481	-261.293	2.5	3
62	M59	Y	-261.293	-257.987	3	3.5
63	M59	Y	-257.987	-239.932	3.5	4
64	M59	Y	-239.932	-241.003	4	4.5
65	M59	Y	-241.003	-261.723	4.5	5
66	M60	Y	-252.131	-245.366	0	0.5
67	M60	Y	-245.366	-237.844	0.5	1
68	M60	Y	-237.844	-239.887	1	1.5
69	M60	Y	-239.887	-242.844	1.5	2
70	M60	Y	-242.844	-246.026	2	2.5
71	M60	Y	-246.026	-258.212	2.5	3
72	M60	Y	-258.212	-255.925	3	3.5
73	M60	Y	-255.925	-238.718	3.5	4
74	M60	Y	-238.718	-240.091	4	4.5
75	M60	Y	-240.091	-261.118	4.5	5
76	M61	Y	-254.439	-234.332	0	0.5
77	M61	Y	-234.332	-233.354	0.5	1
78	M61	Y	-233.354	-249.757	1	1.5
79	M61	Y	-249.757	-250.602	1.5	2
80	M61	Y	-250.602	-237.504	2	2.5
81	M61	Y	-237.504	-234.836	2.5	3
82	M61	Y	-234.836	-234.106	3	3.5
83	M61	Y	-234.106	-237.069	3.5	4
84	M61	Y	-237.069	-244.198	4	4.5
85	M61	Y	-244.198	-243.174	4.5	5
86	M62	Y	-254.349	-234.471	0	0.5
87	M62	Y	-234.471	-233.415	0.5	1
88	M62	Y	-233.415	-249.674	1	1.5
89	M62	Y	-249.674	-250.543	1.5	2

Member Distributed Loads (BLC 5 : BLC 2 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
90	M62	Y	-250.543	-237.617	2	2.5
91	M62	Y	-237.617	-235.026	2.5	3
92	M62	Y	-235.026	-233.83	3	3.5
93	M62	Y	-233.83	-237.059	3.5	4
94	M62	Y	-237.059	-244.428	4	4.5
95	M62	Y	-244.428	-242.657	4.5	5
96	M63	Y	-259.172	-235.581	0	0.5
97	M63	Y	-235.581	-230.877	0.5	1
98	M63	Y	-230.877	-242.708	1	1.5
99	M63	Y	-242.708	-243.541	1.5	2
100	M63	Y	-243.541	-243.495	2	2.5
101	M63	Y	-243.495	-252.925	2.5	3
102	M63	Y	-252.925	-250.517	3	3.5
103	M63	Y	-250.517	-234.059	3.5	4
104	M63	Y	-234.059	-234.881	4	4.5
105	M63	Y	-234.881	-253.486	4.5	5
106	M64	Y	-252.865	-234.688	0	0.5
107	M64	Y	-234.688	-233.771	0.5	1
108	M64	Y	-233.771	-249.597	1	1.5
109	M64	Y	-249.597	-250.584	1.5	2
110	M64	Y	-250.584	-237.541	2	2.5
111	M64	Y	-237.541	-234.97	2.5	3
112	M64	Y	-234.97	-233.905	3	3.5
113	M64	Y	-233.905	-237.222	3.5	4
114	M64	Y	-237.222	-244.504	4	4.5
115	M64	Y	-244.504	-242.699	4.5	5
116	M12	Y	-79.389	-45.988	0	0.4
117	M12	Y	-45.988	-41.105	0.4	0.8
118	M12	Y	-41.105	-48.759	0.8	1.2
119	M12	Y	-48.759	-47.224	1.2	1.6
120	M12	Y	-47.224	-52.479	1.6	2
121	M28	Y	0.591	-26.969	0	0.05
122	M28	Y	-26.969	-56.894	0.05	0.1
123	M31	Y	-767.453	-767.453	0	0.125
124	M39	Y	-3196.065	-3196.065	1.174	1.299
125	M47	Y	-99.578	-100.557	0	0.5
126	M47	Y	-100.557	-102.914	0.5	1
127	M47	Y	-102.914	-99.267	1	1.5
128	M47	Y	-99.267	-95.561	1.5	2
129	M47	Y	-95.561	-102.115	2	2.5
130	M47	Y	-102.115	-104.008	2.5	3
131	M47	Y	-104.008	-100.932	3	3.5
132	M47	Y	-100.932	-100.483	3.5	4
133	M48	Y	-100	-100	6.634e-15	4
134	M49	Y	-100	-100	3.469e-16	4
135	M50	Y	-99.877	-99.877	1.457e-15	4
136	M52	Y	-100	-100	1.429e-14	4
137	M53	Y	-150	-150	1.429e-14	4

Member Distributed Loads (BLC 6 : BLC 3 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M5	Y	-64.7	-64.698	0	0.5
2	M5	Y	-64.698	-64.717	0.5	1
3	M5	Y	-64.717	-64.766	1	1.5
4	M5	Y	-64.766	-64.798	1.5	2

Member Distributed Loads (BLC 6 : BLC 3 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
5	M5	Y	-64.798	-64.766	2	2.5
6	M5	Y	-64.766	-64.699	2.5	3
7	M5	Y	-64.699	-64.659	3	3.5
8	M5	Y	-64.659	-64.649	3.5	4
9	M5	Y	-64.649	-64.666	4	4.5
10	M5	Y	-64.666	-64.697	4.5	5
11	M6	Y	-64.77	-64.77	0.002	4.998
12	M7	Y	-63.803	-63.803	0.002	4.998
13	M11	Y	-64.7	-64.698	0	0.5
14	M11	Y	-64.698	-64.717	0.5	1
15	M11	Y	-64.717	-64.766	1	1.5
16	M11	Y	-64.766	-64.798	1.5	2
17	M11	Y	-64.798	-64.766	2	2.5
18	M11	Y	-64.766	-64.699	2.5	3
19	M11	Y	-64.699	-64.659	3	3.5
20	M11	Y	-64.659	-64.649	3.5	4
21	M11	Y	-64.649	-64.666	4	4.5
22	M11	Y	-64.666	-64.697	4.5	5
23	M20	Y	-63.67	-63.67	0.001	4.998
24	M21	Y	-63.67	-63.67	0.001	4.998
25	M22	Y	-62.448	-62.602	0	0.5
26	M22	Y	-62.602	-62.745	0.5	1
27	M22	Y	-62.745	-62.884	1	1.5
28	M22	Y	-62.884	-63.043	1.5	2
29	M22	Y	-63.043	-63.207	2	2.5
30	M22	Y	-63.207	-63.331	2.5	3
31	M22	Y	-63.331	-63.399	3	3.5
32	M22	Y	-63.399	-63.458	3.5	4
33	M22	Y	-63.458	-63.55	4	4.5
34	M22	Y	-63.55	-63.659	4.5	5
35	M27	Y	-63.67	-63.67	0.001	4.998
36	M57	Y	-63.213	-61.299	0	0.5
37	M57	Y	-61.299	-59.377	0.5	1
38	M57	Y	-59.377	-59.971	1	1.5
39	M57	Y	-59.971	-60.849	1.5	2
40	M57	Y	-60.849	-61.566	2	2.5
41	M57	Y	-61.566	-64.483	2.5	3
42	M57	Y	-64.483	-64	3	3.5
43	M57	Y	-64	-59.772	3.5	4
44	M57	Y	-59.772	-60.004	4	4.5
45	M57	Y	-60.004	-64.915	4.5	5
46	M58	Y	-63.25	-61.337	0	0.5
47	M58	Y	-61.337	-59.426	0.5	1
48	M58	Y	-59.426	-59.943	1	1.5
49	M58	Y	-59.943	-60.677	1.5	2
50	M58	Y	-60.677	-61.56	2	2.5
51	M58	Y	-61.56	-64.57	2.5	3
52	M58	Y	-64.57	-63.952	3	3.5
53	M58	Y	-63.952	-59.791	3.5	4
54	M58	Y	-59.791	-60.052	4	4.5
55	M58	Y	-60.052	-64.882	4.5	5
56	M59	Y	-64.979	-63.125	0	0.5
57	M59	Y	-63.125	-61.072	0.5	1
58	M59	Y	-61.072	-61.399	1	1.5
59	M59	Y	-61.399	-61.817	1.5	2

Member Distributed Loads (BLC 6 : BLC 3 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
60	M59	Y	-61.817	-62.37	2	2.5
61	M59	Y	-62.37	-65.323	2.5	3
62	M59	Y	-65.323	-64.497	3	3.5
63	M59	Y	-64.497	-59.983	3.5	4
64	M59	Y	-59.983	-60.251	4	4.5
65	M59	Y	-60.251	-65.431	4.5	5
66	M60	Y	-63.033	-61.341	0	0.5
67	M60	Y	-61.341	-59.461	0.5	1
68	M60	Y	-59.461	-59.972	1	1.5
69	M60	Y	-59.972	-60.711	1.5	2
70	M60	Y	-60.711	-61.507	2	2.5
71	M60	Y	-61.507	-64.553	2.5	3
72	M60	Y	-64.553	-63.981	3	3.5
73	M60	Y	-63.981	-59.679	3.5	4
74	M60	Y	-59.679	-60.023	4	4.5
75	M60	Y	-60.023	-65.28	4.5	5
76	M61	Y	-63.61	-58.583	0	0.5
77	M61	Y	-58.583	-58.338	0.5	1
78	M61	Y	-58.338	-62.439	1	1.5
79	M61	Y	-62.439	-62.651	1.5	2
80	M61	Y	-62.651	-59.376	2	2.5
81	M61	Y	-59.376	-58.709	2.5	3
82	M61	Y	-58.709	-58.526	3	3.5
83	M61	Y	-58.526	-59.267	3.5	4
84	M61	Y	-59.267	-61.049	4	4.5
85	M61	Y	-61.049	-60.794	4.5	5
86	M62	Y	-63.587	-58.618	0	0.5
87	M62	Y	-58.618	-58.354	0.5	1
88	M62	Y	-58.354	-62.418	1	1.5
89	M62	Y	-62.418	-62.636	1.5	2
90	M62	Y	-62.636	-59.404	2	2.5
91	M62	Y	-59.404	-58.756	2.5	3
92	M62	Y	-58.756	-58.458	3	3.5
93	M62	Y	-58.458	-59.265	3.5	4
94	M62	Y	-59.265	-61.107	4	4.5
95	M62	Y	-61.107	-60.664	4.5	5
96	M63	Y	-64.793	-58.895	0	0.5
97	M63	Y	-58.895	-57.719	0.5	1
98	M63	Y	-57.719	-60.677	1	1.5
99	M63	Y	-60.677	-60.885	1.5	2
100	M63	Y	-60.885	-60.874	2	2.5
101	M63	Y	-60.874	-63.231	2.5	3
102	M63	Y	-63.231	-62.629	3	3.5
103	M63	Y	-62.629	-58.515	3.5	4
104	M63	Y	-58.515	-58.72	4	4.5
105	M63	Y	-58.72	-63.371	4.5	5
106	M64	Y	-63.216	-58.672	0	0.5
107	M64	Y	-58.672	-58.443	0.5	1
108	M64	Y	-58.443	-62.399	1	1.5
109	M64	Y	-62.399	-62.646	1.5	2
110	M64	Y	-62.646	-59.385	2	2.5
111	M64	Y	-59.385	-58.742	2.5	3
112	M64	Y	-58.742	-58.476	3	3.5
113	M64	Y	-58.476	-59.306	3.5	4
114	M64	Y	-59.306	-61.126	4	4.5

Member Distributed Loads (BLC 6 : BLC 3 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
115	M64	Y	-61.126	-60.675	4.5	5
116	M12	Y	-19.847	-11.497	0	0.4
117	M12	Y	-11.497	-10.276	0.4	0.8
118	M12	Y	-10.276	-12.19	0.8	1.2
119	M12	Y	-12.19	-11.806	1.2	1.6
120	M12	Y	-11.806	-13.12	1.6	2
121	M28	Y	0.148	-6.742	0	0.05
122	M28	Y	-6.742	-14.223	0.05	0.1
123	M31	Y	-191.863	-191.863	0	0.125
124	M39	Y	-799.016	-799.016	1.174	1.299
125	M47	Y	-24.895	-25.139	0	0.5
126	M47	Y	-25.139	-25.728	0.5	1
127	M47	Y	-25.728	-24.817	1	1.5
128	M47	Y	-24.817	-23.89	1.5	2
129	M47	Y	-23.89	-25.529	2	2.5
130	M47	Y	-25.529	-26.002	2.5	3
131	M47	Y	-26.002	-25.233	3	3.5
132	M47	Y	-25.233	-25.121	3.5	4
133	M48	Y	-25	-25	6.578e-15	4
134	M49	Y	-25	-25	6.8e-16	4
135	M50	Y	-24.969	-24.969	0	4
136	M52	Y	-25	-25	0	4
137	M53	Y	-37.5	-37.5	0	4

Member Area Loads (BLC 1 : Dead)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N46	N45	N41	N52	Y	A-B	-10	-10	-10	-10	Yes
2	N16	N17	N36	N48	PY	B-C	-10	-10	-10	-10	Yes

Member Area Loads (BLC 2 : Live)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N46	N45	N41	N52	Y	A-B	-100	-100	-100	-100	Yes
2	N16	N17	N36	N48	PY	B-C	-100	-100	-100	-100	Yes

Member Area Loads (BLC 3 : Snow)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N46	N45	N41	N52	Y	A-B	-25	-25	-25	-25	Yes
2	N17	N36	N48	N16	PY	A-B	-25	-25	-25	-25	Yes

Basic Load Cases

	BLC Description	Category	Y Gravity	Distributed	Area(Member)
1	Dead	DL	-1	27	2
2	Live	LL			2
3	Snow	SL			2
4	BLC 1 Transient Area Loads	None		137	
5	BLC 2 Transient Area Loads	None		137	
6	BLC 3 Transient Area Loads	None		137	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	Deflection 1	Yes	C	DL	1								
2	Deflection 2	Yes	C	LL	1								
3	Deflection 3	Yes	C	DL	1	LL	1						
4	IBC 21/ASCE ASD 1	Yes	C	DL	1								
5	IBC 21/ASCE ASD 2	Yes	C	DL	1	LL	1	LLS	1				
6	IBC 21/ASCE ASD 3 (b)	Yes	C	DL	1	SL	1	SLN	1				
7	IBC 21/ASCE ASD 4 (b)	Yes	C	DL	1	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N15	max	-0.066	4	977.53	5	0.614	5	0	7	0	7	0	7
2		min	-0.493	3	229.302	1	0.041	1	0	1	0	1	0	1
3	N14	max	0.055	5	1574.273	5	0.84	5	0	7	0	7	0	7
4		min	0.022	1	289.145	1	0.012	1	0	1	0	1	0	1
5	N13	max	-0.024	4	1588.574	5	0.824	5	0	7	0	7	0	7
6		min	-0.066	3	290.421	1	0.01	1	0	1	0	1	0	1
7	N12	max	0.071	5	1584.13	5	0.822	5	0	7	0	7	0	7
8		min	0.024	1	289.855	1	0.012	1	0	1	0	1	0	1
9	N11	max	0.149	5	2721.762	5	0.003	5	0	7	0	7	0	7
10		min	0.043	1	306.428	1	0	1	0	1	0	1	0	1
11	N7	max	-0.06	4	1796.52	5	-0.001	4	0	7	0	7	0	7
12		min	-0.828	3	283.931	1	-0.014	3	0	1	0	1	0	1
13	N6	max	-0.042	4	2712.359	5	0.001	5	0	7	0	7	0	7
14		min	-0.142	3	304.441	1	0	1	0	1	0	1	0	1
15	N5	max	0.148	5	2705.191	5	0.002	2	0	7	0	7	0	7
16		min	0.041	1	304.615	1	-0.001	1	0	1	0	1	0	1
17	N3	max	0.504	5	800.741	5	0.462	5	0	7	0	7	0	7
18		min	0.078	1	151.152	1	0.16	1	0	1	0	1	0	1
19	N2	max	0.791	5	1426.489	5	0.105	2	0	7	0	7	0	7
20		min	0.02	1	221.055	1	-0.109	1	0	1	0	1	0	1
21	N19	max	0.033	5	1584.509	5	-0.012	4	0	7	0	7	0	7
22		min	0.012	1	290.351	1	-0.837	3	0	1	0	1	0	1
23	N9	max	-0.061	4	921.887	5	-0.042	4	0	7	0	7	0	7
24		min	-0.519	3	224.37	1	-0.628	3	0	1	0	1	0	1
25	N8	max	-0.013	4	1591.82	5	-0.01	4	0	7	0	7	0	7
26		min	-0.039	3	290.764	1	-0.823	3	0	1	0	1	0	1
27	N1	max	0.043	5	1587.119	5	-0.009	4	0	7	0	7	0	7
28		min	0.013	1	290.486	1	-0.821	3	0	1	0	1	0	1
29	N18	max	0.487	5	864.34	5	0.103	4	0	7	0	7	0	7
30		min	0.043	1	213.469	1	-0.512	2	0	1	0	1	0	1
31	N16	max	0	7	194.709	5	0.108	6	0	7	0	7	0	7
32		min	0	1	48.343	1	-0.18	3	0	1	0	1	0	1
33	N17	max	0	7	302.231	5	-0.509	4	0	7	0	7	0	7
34		min	0	1	57.946	1	-4.916	3	0	1	0	1	0	1
35	N4	max	8.488	5	1438.18	5	2.203	5	0	7	0	7	0	7
36		min	0.679	1	411.056	1	0.046	1	0	1	0	1	0	1
37	N41	max	-0.13	4	0	7	6.041	5	0	7	0	7	0	7
38		min	-3.342	3	0	1	1.921	1	0	1	0	1	0	1
39	N10	max	7.618	5	1765.888	5	2.707	5	0	7	0	7	0	7
40		min	0.677	1	441.118	1	0.049	1	0	1	0	1	0	1
41	N45	max	-0.297	4	0	7	-0.209	4	0	7	0	7	0	7
42		min	-2.952	3	0	1	-1.429	3	0	1	0	1	0	1
43	N52	max	-0.684	4	0	7	-1.601	4	0	7	0	7	0	7
44		min	-7.018	3	0	1	-5.8	3	0	1	0	1	0	1

Envelope Node Reactions (Continued)

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
45	N46	max	-0.279	4	0	7	1.345	5	0	7	0	7	0	7
46		min	-2.988	3	0	1	0.052	1	0	1	0	1	0	1
47	Totals:	max	0	5	28138.25	5	0	5						
48		min	0	1	4938.25	1	0	1						

Envelope Node Displacements

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
1	N1	max	0	4	0	4	0	5	1.96e-4	5	0	7	1.027e-5	5
2		min	0	3	0	3	0	1	2.185e-6	1	0	1	3.137e-6	1
3	N2	max	0	4	0	4	0	4	2.594e-5	4	1.186e-7	5	1.888e-4	5
4		min	0	3	0	3	0	2	-2.515e-5	2	1.185e-8	1	4.776e-6	1
5	N3	max	0	4	0	4	0	4	-3.811e-5	4	0	7	1.203e-4	5
6		min	0	3	0	3	0	3	-1.104e-4	3	0	1	1.853e-5	1
7	N4	max	0	4	0	4	0	4	9.595e-4	5	-6.122e-5	4	-1.037e-3	4
8		min	0	3	0	3	0	3	6.989e-5	1	-8.3e-4	3	-3.694e-3	3
9	N5	max	0	4	0	4	0	4	2.729e-7	4	0	7	3.51e-5	5
10		min	0	3	0	3	0	2	-4.024e-7	2	0	1	9.866e-6	1
11	N6	max	0	5	0	4	0	4	-1.406e-8	4	0	7	-9.942e-6	4
12		min	0	1	0	3	0	3	-1.884e-7	3	0	1	-3.401e-5	3
13	N7	max	0	5	0	4	0	5	3.247e-6	5	0	7	-1.427e-5	4
14		min	0	1	0	3	0	1	2.853e-7	1	0	1	-1.977e-4	3
15	N8	max	0	5	0	4	0	5	1.965e-4	5	0	7	-3.071e-6	4
16		min	0	1	0	3	0	1	2.412e-6	1	0	1	-9.395e-6	3
17	N9	max	0	5	0	4	0	5	1.499e-4	5	0	7	-1.452e-5	4
18		min	0	1	0	3	0	1	1.013e-5	1	0	1	-1.239e-4	3
19	N10	max	0	4	0	4	0	4	9.601e-4	5	-6.07e-5	4	-9.64e-4	4
20		min	0	3	0	3	0	3	7.005e-5	1	-8.266e-4	3	-2.699e-3	3
21	N11	max	0	4	0	4	0	4	-7.287e-8	4	0	7	3.538e-5	5
22		min	0	3	0	3	0	3	-5.984e-7	3	0	1	1.03e-5	1
23	N12	max	0	4	0	4	0	4	-2.886e-6	4	0	7	1.677e-5	5
24		min	0	3	0	3	0	3	-1.963e-4	3	0	1	5.746e-6	1
25	N13	max	0	5	0	4	0	4	-2.437e-6	4	0	7	-5.618e-6	4
26		min	0	1	0	3	0	3	-1.967e-4	3	0	1	-1.594e-5	3
27	N14	max	0	4	0	4	0	4	-2.971e-6	4	0	7	1.317e-5	5
28		min	0	3	0	3	0	3	-2.005e-4	3	0	1	5.361e-6	1
29	N15	max	0	5	0	4	0	4	-9.845e-6	4	0	7	-1.583e-5	4
30		min	0	1	0	3	0	3	-1.466e-4	3	0	1	-1.177e-4	3
31	N16	max	0.155	5	0	4	0	5	4.525e-3	5	-1.715e-4	4	1.179e-4	2
32		min	0.043	1	0	3	0	6	3.886e-4	1	-3.798e-4	2	4.41e-6	1
33	N17	max	0.116	5	0	4	0	5	1.612e-3	5	5.341e-3	5	7.406e-4	5
34		min	0.041	1	0	3	0	1	3.506e-5	1	5.053e-4	1	6.03e-5	1
35	N18	max	0	4	0	4	0	2	1.222e-4	2	0	7	1.162e-4	5
36		min	0	3	0	3	0	1	-2.455e-5	1	0	1	1.034e-5	1
37	N19	max	0	4	0	4	0	5	1.999e-4	5	0	7	7.827e-6	5
38		min	0	3	0	3	0	1	2.896e-6	1	0	1	2.97e-6	1
39	N20	max	0.11	5	-0.001	4	0.038	5	-4.436e-4	4	-6.884e-5	4	4.245e-4	5
40		min	0.04	1	-0.008	3	0.003	1	-3.606e-3	3	-9.182e-4	3	1.02e-5	1
41	N21	max	0.154	5	0	4	0.038	5	3.952e-3	5	-6.942e-5	4	-3.524e-5	4
42		min	0.044	1	-0.001	2	0.003	1	4.737e-4	1	-9.228e-4	3	-8.413e-5	3
43	N22	max	0.108	5	0	4	0.038	5	-3.221e-4	4	-7.557e-5	4	-4.326e-5	4
44		min	0.04	1	-0.01	3	0.003	1	-2.283e-3	3	-9.939e-4	3	-1.001e-4	3
45	N23	max	0.156	5	0.002	5	0.038	5	2.793e-3	5	-7.616e-5	4	-5.74e-5	4
46		min	0.044	1	0.001	1	0.003	1	3.674e-4	1	-9.98e-4	3	-2.578e-4	3
47	N24	max	0.157	5	0.004	5	0.038	5	3.649e-4	5	-7.414e-5	4	2.946e-4	5
48		min	0.044	1	0.001	1	0.003	1	1.468e-4	1	-9.753e-4	3	9.48e-5	1

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
49	N25	max	0.111	5	0	4	0.038	5	1.982e-4	2	-7.364e-5	4	5.676e-5	4
50		min	0.041	1	-0.007	2	0.003	1	-1.059e-4	1	-9.721e-4	3	-1.91e-4	2
51	N26	max	0.148	5	-0.002	4	0.038	5	2.566e-3	5	-6.122e-5	4	1.911e-3	5
52		min	0.041	1	-0.008	3	0.003	1	3.474e-4	1	-8.3e-4	3	5.445e-4	1
53	N27	max	0.108	5	-0.002	4	0.038	5	-3.412e-4	4	-6.07e-5	4	1.099e-3	5
54		min	0.039	1	-0.009	3	0.003	1	-2.498e-3	3	-8.266e-4	3	4.728e-4	1
55	N28	max	0.088	5	-0.011	4	0.028	5	-3.597e-4	4	-4.567e-5	4	2.542e-3	5
56		min	0.031	1	-0.034	3	0.002	1	-2.711e-3	3	-6.549e-4	3	9.073e-4	1
57	N29	max	0.119	5	-0.012	4	0.028	5	2.369e-3	5	-4.632e-5	4	3.373e-3	5
58		min	0.033	1	-0.042	3	0.002	1	3.303e-4	1	-6.597e-4	3	9.795e-4	1
59	N30	max	0.083	5	-0.025	4	0.018	5	2.16e-3	5	-3.127e-5	4	3.704e-3	5
60		min	0.023	1	-0.086	3	0.001	1	3.122e-4	1	-4.851e-4	3	1.111e-3	1
61	N31	max	0.06	5	-0.023	4	0.018	5	-3.778e-4	4	-3.063e-5	4	2.863e-3	5
62		min	0.021	1	-0.068	3	0.001	1	-2.92e-3	3	-4.803e-4	3	1.038e-3	1
63	N32	max	0.047	5	-0.038	4	0.009	5	1.954e-3	5	-1.604e-5	4	3.487e-3	5
64		min	0.012	1	-0.129	3	0.001	1	2.898e-4	1	-3.083e-4	3	1.084e-3	1
65	N33	max	0.032	5	-0.036	4	0.009	5	-3.911e-4	4	-1.587e-5	4	2.645e-3	5
66		min	0.011	1	-0.101	3	0.001	1	-3.13e-3	3	-3.059e-4	3	1.012e-3	1
67	N34	max	0	5	-0.004	4	0	5	2.709e-3	5	1.313e-5	5	-1.956e-5	4
68		min	0	2	-0.032	3	0	6	3.923e-4	1	8.148e-7	2	-6.969e-5	3
69	N35	max	0	5	-0.004	4	0	5	2.734e-3	5	5.045e-5	5	-2.04e-5	4
70		min	0	2	-0.033	3	0	2	3.949e-4	1	1.597e-6	2	-7.014e-5	3
71	N36	max	0.007	5	-0.048	4	0	5	1.271e-3	5	4.855e-4	5	3.966e-3	5
72		min	0.001	1	-0.131	3	0	1	5.26e-4	2	5.524e-5	1	1.411e-3	1
73	N37	max	0	5	-0.004	4	0	5	2.708e-3	5	2.448e-5	5	6.704e-5	5
74		min	0	2	-0.032	3	0	2	3.871e-4	1	1.154e-6	2	1.966e-5	1
75	N38	max	0	5	-0.003	4	0	5	3.949e-4	5	0	7	3.187e-5	5
76		min	0	1	-0.017	3	0	1	4.89e-6	1	0	1	1.127e-5	1
77	N39	max	0	5	-0.003	4	0	4	-4.388e-6	4	0	7	-6.307e-6	4
78		min	0	1	-0.017	3	0	2	-3.936e-4	3	0	1	-2.075e-5	3
79	N40	max	0	5	-0.003	4	0	2	4.025e-4	5	0	7	-1.076e-5	4
80		min	0	1	-0.017	3	0	7	5.951e-6	1	0	1	-2.651e-5	3
81	N41	max	0	5	-0.002	4	0	4	2.943e-4	5	0	7	2.363e-4	5
82		min	0	1	-0.01	3	0	3	1.976e-5	1	0	1	3.178e-5	1
83	N42	max	0	5	-0.003	4	0	5	3.786e-7	5	0	7	6.802e-5	5
84		min	0	1	-0.029	3	0	2	2.601e-8	1	0	1	1.993e-5	1
85	N43	max	0	5	-0.003	4	0	5	1.199e-6	5	0	7	-2.069e-5	4
86		min	0	1	-0.029	3	0	2	1.437e-7	1	0	1	-7.125e-5	3
87	N44	max	0	2	-0.003	4	0	5	-5.798e-7	4	0	7	3.97e-4	5
88		min	0	1	-0.019	3	0	2	-6.524e-6	3	0	1	2.869e-5	1
89	N45	max	0	5	-0.002	4	0	5	2.215e-4	5	0	7	-3.719e-5	4
90		min	0	1	-0.008	3	0	1	7.65e-5	1	0	1	-2.416e-4	3
91	N46	max	0	5	-0.002	4	0	4	4.929e-5	4	0	7	-2.075e-5	4
92		min	0	1	-0.009	3	0	3	-2.453e-4	2	0	1	-2.333e-4	3
93	N47	max	0	5	-0.003	4	0	5	8.069e-7	2	0	7	-1.983e-5	4
94		min	0	1	-0.029	3	0	6	-5.493e-7	1	0	1	-7.069e-5	3
95	N48	max	0.013	5	-0.051	4	0	4	-8.068e-4	4	2.315e-4	2	4.825e-3	5
96		min	0.001	1	-0.169	3	0	3	-2.11e-3	3	1.531e-5	1	1.483e-3	1
97	N49	max	0	5	-0.002	4	0	2	5.05e-5	2	1.186e-7	5	-9.614e-6	4
98		min	0	1	-0.015	3	0	1	-5.208e-5	1	1.185e-8	1	-3.792e-4	3
99	N50	max	0	5	-0.003	4	0	4	-4.844e-6	4	0	7	1.872e-5	5
100		min	0	1	-0.017	3	0	2	-3.945e-4	3	0	1	6.157e-6	1
101	N51	max	0	5	-0.003	4	0	5	-5.808e-6	4	0	7	-5.963e-6	4
102		min	0	1	-0.017	3	0	2	-4.013e-4	3	0	1	-1.579e-5	3
103	N52	max	0	5	-0.002	4	0	5	-2.034e-5	4	0	7	2.487e-4	5

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
104		min	0	1	-0.01	3	0	1	-3.009e-4	3	0	1	2.915e-5	1
105	N53	max	0	5	-0.006	4	0	5	6.639e-3	5	1.446e-4	5	5.754e-4	5
106		min	0	2	-0.027	3	0	2	2.428e-3	1	7.645e-6	2	9.782e-5	1
107	N54	max	0	5	-0.003	4	0	5	3.941e-4	5	0	7	-1.155e-5	4
108		min	0	1	-0.017	3	0	1	5.791e-6	1	0	1	-3.379e-5	3
109	N55	max	0	5	-0.005	4	0	2	3.145e-3	5	7.85e-6	5	-9.836e-6	4
110		min	0	1	-0.019	3	0	1	1.162e-3	2	2.429e-7	2	-3.763e-4	3

Envelope Member Section Forces

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1	M1	1	max	1588.574	5	0.067	5	0.824	5	0	7	0	7	0	7
2			min	290.421	1	0.024	1	0.01	1	0	1	0	1	0	1
3		2	max	1586.697	5	0.067	5	0.824	5	0	7	1.374	5	-0.039	4
4			min	288.544	1	0.024	1	0.01	1	0	1	0.017	1	-0.111	3
5		3	max	1584.82	5	0.067	5	0.824	5	0	7	2.747	5	-0.078	4
6			min	286.667	1	0.024	1	0.01	1	0	1	0.034	1	-0.222	3
7		4	max	1582.943	5	0.067	5	0.824	5	0	7	4.121	5	-0.118	4
8			min	284.79	1	0.024	1	0.01	1	0	1	0.051	1	-0.333	3
9		5	max	1581.067	5	0.067	5	0.824	5	0	7	5.495	5	-0.157	4
10			min	282.913	1	0.024	1	0.01	1	0	1	0.068	1	-0.444	3
11	M2	1	max	977.53	5	0.493	5	0.614	5	0	7	0	7	0	7
12			min	229.302	1	0.066	1	0.041	1	0	1	0	1	0	1
13		2	max	975.653	5	0.493	5	0.614	5	0	7	1.024	5	-0.111	4
14			min	227.425	1	0.066	1	0.041	1	0	1	0.069	1	-0.822	3
15		3	max	973.776	5	0.493	5	0.614	5	0	7	2.048	5	-0.221	4
16			min	225.548	1	0.066	1	0.041	1	0	1	0.137	1	-1.644	3
17		4	max	971.899	5	0.493	5	0.614	5	0	7	3.071	5	-0.332	4
18			min	223.671	1	0.066	1	0.041	1	0	1	0.206	1	-2.466	3
19		5	max	970.022	5	0.493	5	0.614	5	0	7	4.095	5	-0.442	4
20			min	221.794	1	0.066	1	0.041	1	0	1	0.275	1	-3.287	3
21	M3	1	max	2712.359	5	0.142	5	0.001	5	0	7	0	7	0	7
22			min	304.441	1	0.042	1	0	1	0	1	0	1	0	1
23		2	max	2710.482	5	0.142	5	0.001	5	0	7	0.001	5	-0.069	4
24			min	302.564	1	0.042	1	0	1	0	1	0	1	-0.237	3
25		3	max	2708.605	5	0.142	5	0.001	5	0	7	0.003	5	-0.139	4
26			min	300.688	1	0.042	1	0	1	0	1	0	1	-0.474	3
27		4	max	2706.728	5	0.142	5	0.001	5	0	7	0.004	5	-0.208	4
28			min	298.811	1	0.042	1	0	1	0	1	0	1	-0.711	3
29		5	max	2704.851	5	0.142	5	0.001	5	0	7	0.005	5	-0.277	4
30			min	296.934	1	0.042	1	0	1	0	1	0	1	-0.948	3
31	M4	1	max	1796.52	5	0.828	5	-0.001	4	0	7	0	7	0	7
32			min	283.931	1	0.06	1	-0.014	3	0	1	0	1	0	1
33		2	max	1794.643	5	0.828	5	-0.001	4	0	7	-0.002	4	-0.1	4
34			min	282.054	1	0.06	1	-0.014	3	0	1	-0.023	3	-1.381	3
35		3	max	1792.766	5	0.828	5	-0.001	4	0	7	-0.004	4	-0.199	4
36			min	280.177	1	0.06	1	-0.014	3	0	1	-0.045	3	-2.762	3
37		4	max	1790.889	5	0.828	5	-0.001	4	0	7	-0.006	4	-0.299	4
38			min	278.3	1	0.06	1	-0.014	3	0	1	-0.068	3	-4.142	3
39		5	max	1789.012	5	0.828	5	-0.001	4	0	7	-0.008	4	-0.399	4
40			min	276.424	1	0.06	1	-0.014	3	0	1	-0.091	3	-5.523	3
41	M5	1	max	0.018	4	0	7	778.783	5	0	4	0	7	0	7
42			min	-0.09	2	0	1	131.537	1	0	2	0	1	0	1
43		2	max	0.018	4	0	7	389.48	5	0	4	730.185	5	0	7
44			min	-0.09	2	0	1	65.777	1	0	2	123.323	1	0	1
45		3	max	0.018	4	0	7	-0.018	4	0	4	973.505	5	0	7

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
46			min	-0.09	2	0	1	-0.194	3	0	2	164.424	1	0	1
47		4	max	0.018	4	0	7	-65.772	4	0	4	729.925	5	0	7
48			min	-0.09	2	0	1	-389.428	3	0	2	123.299	1	0	1
49		5	max	0.018	4	0	7	-131.511	4	0	4	0	7	0	7
50			min	-0.09	2	0	1	-778.496	3	0	2	0	1	0	1
51	M6	1	max	0.304	5	0	7	778.621	5	0	4	0	7	0	7
52			min	0.004	2	0	1	131.522	1	-0.001	3	0	1	0	1
53		2	max	0.304	5	0	7	389.639	5	0	4	730.573	5	0	7
54			min	0.004	2	0	1	65.791	1	-0.001	3	123.358	1	0	1
55		3	max	0.304	5	0	7	0	7	0	4	974.098	5	0	7
56			min	0.004	2	0	1	0	1	-0.001	3	164.478	1	0	1
57		4	max	0.304	5	0	7	-65.791	4	0	4	730.573	5	0	7
58			min	0.004	2	0	1	-389.639	3	-0.001	3	123.358	1	0	1
59		5	max	0.304	5	0	7	-131.528	4	0	4	0	7	0	7
60			min	0.004	2	0	1	-778.681	3	-0.001	3	0	1	0	1
61	M7	1	max	0.352	5	0	7	768.016	5	0.019	2	0	7	0	7
62			min	-0.01	1	0	1	130.558	1	-0.002	1	0	1	0	1
63		2	max	0.352	5	0	7	384.321	5	0.019	2	720.601	5	0	7
64			min	-0.01	1	0	1	65.308	1	-0.002	1	122.452	1	0	1
65		3	max	0.352	5	0	7	0	7	0.019	2	960.801	5	0	7
66			min	-0.01	1	0	1	0	1	-0.002	1	163.269	1	0	1
67		4	max	0.352	5	0	7	-65.308	4	0.019	2	720.601	5	0	7
68			min	-0.01	1	0	1	-384.321	3	-0.002	1	122.452	1	0	1
69		5	max	0.352	5	0	7	-130.558	4	0.019	2	0	7	0	7
70			min	-0.01	1	0	1	-768.016	3	-0.002	1	0	1	0	1
71	M8	1	max	5.668	5	0.385	2	191.928	5	-0.384	4	0	7	0	7
72			min	1.868	1	-1.601	3	83.449	1	-1.213	3	0	1	0	1
73		2	max	5.668	5	0.385	2	171.884	5	-0.384	4	136.43	5	1.201	5
74			min	1.868	1	-1.601	3	63.405	1	-1.213	3	55.07	1	-0.289	2
75		3	max	5.668	5	0.385	2	151.84	5	-0.384	4	257.826	5	2.402	5
76			min	1.868	1	-1.601	3	43.362	1	-1.213	3	95.108	1	-0.577	2
77		4	max	5.668	5	0.385	2	131.797	5	-0.384	4	364.19	5	3.603	5
78			min	1.868	1	-1.601	3	23.318	1	-1.213	3	120.113	1	-0.866	2
79		5	max	5.668	5	0.385	2	111.753	5	-0.384	4	455.521	5	4.804	5
80			min	1.868	1	-1.601	3	3.274	1	-1.213	3	130.085	1	-1.154	2
81	M9	1	max	800.741	5	-0.078	4	0.462	5	0	7	0	7	0	7
82			min	151.152	1	-0.504	3	0.16	1	0	1	0	1	0	1
83		2	max	798.865	5	-0.078	4	0.462	5	0	7	0.771	5	0.84	5
84			min	149.275	1	-0.504	3	0.16	1	0	1	0.266	1	0.129	1
85		3	max	796.988	5	-0.078	4	0.462	5	0	7	1.541	5	1.681	5
86			min	147.398	1	-0.504	3	0.16	1	0	1	0.532	1	0.259	1
87		4	max	795.111	5	-0.078	4	0.462	5	0	7	2.312	5	2.521	5
88			min	145.521	1	-0.504	3	0.16	1	0	1	0.798	1	0.388	1
89		5	max	793.234	5	-0.078	4	0.462	5	0	7	3.082	5	3.361	5
90			min	143.644	1	-0.504	3	0.16	1	0	1	1.064	1	0.517	1
91	M10	1	max	1426.489	5	-0.02	4	0.105	2	0	7	0	7	0	7
92			min	221.055	1	-0.791	3	-0.109	1	0	1	0	1	0	1
93		2	max	1424.613	5	-0.02	4	0.105	2	0	7	0.176	2	1.319	5
94			min	219.178	1	-0.791	3	-0.109	1	0	1	-0.181	1	0.033	1
95		3	max	1422.736	5	-0.02	4	0.105	2	0	7	0.351	2	2.638	5
96			min	217.301	1	-0.791	3	-0.109	1	0	1	-0.362	1	0.067	1
97		4	max	1420.859	5	-0.02	4	0.105	2	0	7	0.527	2	3.957	5
98			min	215.424	1	-0.791	3	-0.109	1	0	1	-0.543	1	0.1	1
99		5	max	1418.982	5	-0.02	4	0.105	2	0	7	0.703	2	5.275	5
100			min	213.547	1	-0.791	3	-0.109	1	0	1	-0.725	1	0.134	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
101	M11	1	max	-0.053	4	0	7	778.783	5	0.011	4	0	7	0	7
102			min	-0.627	3	0	1	131.537	1	-0.039	2	0	1	0	1
103		2	max	-0.053	4	0	7	389.48	5	0.011	4	730.185	5	0	7
104			min	-0.627	3	0	1	65.777	1	-0.039	2	123.323	1	0	1
105		3	max	-0.053	4	0	7	-0.018	4	0.011	4	973.505	5	0	7
106			min	-0.627	3	0	1	-0.194	3	-0.039	2	164.424	1	0	1
107		4	max	-0.053	4	0	7	-65.772	4	0.011	4	729.925	5	0	7
108			min	-0.627	3	0	1	-389.428	3	-0.039	2	123.299	1	0	1
109		5	max	-0.053	4	0	7	-131.511	4	0.011	4	0	7	0	7
110			min	-0.627	3	0	1	-778.496	3	-0.039	2	0	1	0	1
111	M12	1	max	-2.711	4	11.956	5	-57.203	4	1.756	5	432.657	5	23.912	5
112			min	-8.43	3	0.897	1	-157.756	3	0.577	1	128.191	1	1.795	1
113		2	max	-2.711	4	11.956	5	-61.026	4	1.756	5	344.548	5	17.934	5
114			min	-8.43	3	0.897	1	-191.193	3	0.577	1	98.555	1	1.346	1
115		3	max	-2.711	4	11.956	5	-64.037	4	1.756	5	242.815	5	11.956	5
116			min	-8.43	3	0.897	1	-215.689	3	0.577	1	67.287	1	0.897	1
117		4	max	-2.711	4	11.956	5	-67.282	4	1.756	5	128.252	5	5.978	5
118			min	-8.43	3	0.897	1	-242.758	3	0.577	1	34.462	1	0.449	1
119		5	max	-2.711	4	11.956	5	-70.613	4	1.756	5	0	7	0	7
120			min	-8.43	3	0.897	1	-270.77	3	0.577	1	0	1	0	1
121	M13	1	max	1584.13	5	-0.024	4	0.822	5	0	7	0	7	0	7
122			min	289.855	1	-0.07	3	0.012	1	0	1	0	1	0	1
123		2	max	1582.253	5	-0.024	4	0.822	5	0	7	1.371	5	0.117	5
124			min	287.978	1	-0.07	3	0.012	1	0	1	0.02	1	0.04	1
125		3	max	1580.376	5	-0.024	4	0.822	5	0	7	2.742	5	0.235	5
126			min	286.101	1	-0.07	3	0.012	1	0	1	0.04	1	0.08	1
127		4	max	1578.499	5	-0.024	4	0.822	5	0	7	4.113	5	0.352	5
128			min	284.224	1	-0.07	3	0.012	1	0	1	0.06	1	0.12	1
129		5	max	1576.622	5	-0.024	4	0.822	5	0	7	5.484	5	0.47	5
130			min	282.347	1	-0.07	3	0.012	1	0	1	0.081	1	0.161	1
131	M14	1	max	1574.273	5	-0.022	4	0.84	5	0	7	0	7	0	7
132			min	289.145	1	-0.055	3	0.012	1	0	1	0	1	0	1
133		2	max	1572.396	5	-0.022	4	0.84	5	0	7	1.4	5	0.092	5
134			min	287.268	1	-0.055	3	0.012	1	0	1	0.021	1	0.037	1
135		3	max	1570.519	5	-0.022	4	0.84	5	0	7	2.8	5	0.184	5
136			min	285.391	1	-0.055	3	0.012	1	0	1	0.041	1	0.075	1
137		4	max	1568.642	5	-0.022	4	0.84	5	0	7	4.201	5	0.276	5
138			min	283.514	1	-0.055	3	0.012	1	0	1	0.062	1	0.112	1
139		5	max	1566.765	5	-0.022	4	0.84	5	0	7	5.601	5	0.369	5
140			min	281.637	1	-0.055	3	0.012	1	0	1	0.083	1	0.15	1
141	M15	1	max	2705.191	5	-0.041	4	0.002	2	0	7	0	7	0	7
142			min	304.615	1	-0.147	3	-0.001	1	0	1	0	1	0	1
143		2	max	2703.314	5	-0.041	4	0.002	2	0	7	0.003	2	0.246	5
144			min	302.738	1	-0.147	3	-0.001	1	0	1	-0.002	1	0.069	1
145		3	max	2701.437	5	-0.041	4	0.002	2	0	7	0.006	2	0.491	5
146			min	300.861	1	-0.147	3	-0.001	1	0	1	-0.004	1	0.138	1
147		4	max	2699.56	5	-0.041	4	0.002	2	0	7	0.008	2	0.737	5
148			min	298.985	1	-0.147	3	-0.001	1	0	1	-0.006	1	0.207	1
149		5	max	2697.683	5	-0.041	4	0.002	2	0	7	0.011	2	0.982	5
150			min	297.108	1	-0.147	3	-0.001	1	0	1	-0.008	1	0.276	1
151	M16	1	max	2721.762	5	-0.043	4	0.003	5	0	7	0	7	0	7
152			min	306.428	1	-0.148	3	0	1	0	1	0	1	0	1
153		2	max	2719.886	5	-0.043	4	0.003	5	0	7	0.004	5	0.248	5
154			min	304.551	1	-0.148	3	0	1	0	1	0.001	1	0.072	1
155		3	max	2718.009	5	-0.043	4	0.003	5	0	7	0.008	5	0.495	5

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
156			min	302.674	1	-0.148	3	0	1	0	1	0.001	1	0.144	1
157		4	max	2716.132	5	-0.043	4	0.003	5	0	7	0.013	5	0.743	5
158			min	300.797	1	-0.148	3	0	1	0	1	0.002	1	0.216	1
159		5	max	2714.255	5	-0.043	4	0.003	5	0	7	0.017	5	0.99	5
160			min	298.92	1	-0.148	3	0	1	0	1	0.002	1	0.288	1
161	M17	1	max	1591.82	5	0.039	5	-0.01	4	0	7	0	7	0	7
162			min	290.764	1	0.013	1	-0.823	3	0	1	0	1	0	1
163		2	max	1589.943	5	0.039	5	-0.01	4	0	7	-0.017	4	-0.021	4
164			min	288.887	1	0.013	1	-0.823	3	0	1	-1.372	3	-0.065	3
165		3	max	1588.066	5	0.039	5	-0.01	4	0	7	-0.034	4	-0.043	4
166			min	287.01	1	0.013	1	-0.823	3	0	1	-2.745	3	-0.131	3
167		4	max	1586.189	5	0.039	5	-0.01	4	0	7	-0.051	4	-0.064	4
168			min	285.133	1	0.013	1	-0.823	3	0	1	-4.117	3	-0.196	3
169		5	max	1584.312	5	0.039	5	-0.01	4	0	7	-0.067	4	-0.086	4
170			min	283.256	1	0.013	1	-0.823	3	0	1	-5.49	3	-0.261	3
171	M18	1	max	921.887	5	0.519	5	-0.042	4	0	7	0	7	0	7
172			min	224.37	1	0.061	1	-0.628	3	0	1	0	1	0	1
173		2	max	920.01	5	0.519	5	-0.042	4	0	7	-0.071	4	-0.101	4
174			min	222.493	1	0.061	1	-0.628	3	0	1	-1.047	3	-0.865	3
175		3	max	918.133	5	0.519	5	-0.042	4	0	7	-0.142	4	-0.203	4
176			min	220.617	1	0.061	1	-0.628	3	0	1	-2.093	3	-1.73	3
177		4	max	916.256	5	0.519	5	-0.042	4	0	7	-0.212	4	-0.304	4
178			min	218.74	1	0.061	1	-0.628	3	0	1	-3.14	3	-2.595	3
179		5	max	914.379	5	0.519	5	-0.042	4	0	7	-0.283	4	-0.406	4
180			min	216.863	1	0.061	1	-0.628	3	0	1	-4.186	3	-3.46	3
181	M19	1	max	0.131	2	0.04	5	30.947	5	-0.002	4	0	7	0	7
182			min	0.003	1	0.002	2	6.94	1	-0.008	3	0	1	0	1
183		2	max	0.131	2	0.04	5	28.834	5	-0.002	4	36.616	5	-0.003	2
184			min	0.003	1	0.002	2	4.827	1	-0.008	3	7.207	1	-0.049	3
185		3	max	0.131	2	0.04	5	26.721	5	-0.002	4	70.643	5	-0.006	2
186			min	0.003	1	0.002	2	2.713	1	-0.008	3	11.825	1	-0.097	3
187		4	max	0.131	2	0.04	5	24.608	5	-0.002	4	102.082	5	-0.009	2
188			min	0.003	1	0.002	2	0.6	1	-0.008	3	13.855	1	-0.146	3
189		5	max	0.131	2	0.04	5	24.007	2	-0.002	4	130.933	5	-0.012	2
190			min	0.003	1	0.002	2	-1.513	1	-0.008	3	13.296	1	-0.195	3
191	M20	1	max	0.009	4	0	7	766.869	5	0	5	0	7	0	7
192			min	-0.104	2	0	1	130.454	1	0	1	0	1	0	1
193		2	max	0.009	4	0	7	383.592	5	0	5	719.235	5	0	7
194			min	-0.104	2	0	1	65.241	1	0	1	122.327	1	0	1
195		3	max	0.009	4	0	7	0	7	0	5	958.98	5	0	7
196			min	-0.104	2	0	1	0	3	0	1	163.103	1	0	1
197		4	max	0.009	4	0	7	-65.241	4	0	5	719.235	5	0	7
198			min	-0.104	2	0	1	-383.592	3	0	1	122.327	1	0	1
199		5	max	0.009	4	0	7	-130.443	4	0	5	0	7	0	7
200			min	-0.104	2	0	1	-766.745	3	0	1	0	1	0	1
201	M21	1	max	0.304	5	0	7	766.869	5	0.001	5	0	7	0	7
202			min	0	2	0	1	130.454	1	0	1	0	1	0	1
203		2	max	0.304	5	0	7	383.592	5	0.001	5	719.235	5	0	7
204			min	0	2	0	1	65.241	1	0	1	122.327	1	0	1
205		3	max	0.304	5	0	7	0	7	0.001	5	958.98	5	0	7
206			min	0	2	0	1	0	3	0	1	163.103	1	0	1
207		4	max	0.304	5	0	7	-65.241	4	0.001	5	719.235	5	0	7
208			min	0	2	0	1	-383.592	3	0	1	122.327	1	0	1
209		5	max	0.304	5	0	7	-130.443	4	0.001	5	0	7	0	7
210			min	0	2	0	1	-766.745	3	0	1	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
211	M22	1	max	0.395	5	0	7	758.994	5	0.002	4	0	7	0	7
212			min	0.002	1	0	1	129.738	1	-0.018	2	0	1	0	1
213		2	max	0.395	5	0	7	381.095	5	0.002	4	712.765	5	0	7
214			min	0.002	1	0	1	65.014	1	-0.018	2	121.739	1	0	1
215		3	max	0.395	5	0	7	1.16	5	0.002	4	951.903	5	0	7
216			min	0.002	1	0	1	0.105	1	-0.018	2	162.46	1	0	1
217		4	max	0.395	5	0	7	-64.969	4	0.002	4	714.88	5	0	7
218			min	0.002	1	0	1	-380.596	3	-0.018	2	121.932	1	0	1
219		5	max	0.395	5	0	7	-130.141	4	0.002	4	0	7	0	7
220			min	0.002	1	0	1	-763.429	3	-0.018	2	0	1	0	1
221	M23	1	max	0.172	2	0.074	5	30.935	5	0.008	5	0	7	0	7
222			min	-0.003	1	0.003	2	6.89	1	0.002	1	0	1	0	1
223		2	max	0.172	2	0.074	5	28.822	5	0.008	5	36.601	5	-0.004	2
224			min	-0.003	1	0.003	2	4.777	1	0.002	1	7.146	1	-0.091	3
225		3	max	0.172	2	0.074	5	26.709	5	0.008	5	70.614	5	-0.009	2
226			min	-0.003	1	0.003	2	2.664	1	0.002	1	11.703	1	-0.181	3
227		4	max	0.172	2	0.074	5	24.596	5	0.008	5	102.038	5	-0.013	2
228			min	-0.003	1	0.003	2	0.551	1	0.002	1	13.672	1	-0.272	3
229		5	max	0.172	2	0.074	5	24.045	2	0.008	5	130.873	5	-0.017	2
230			min	-0.003	1	0.003	2	-1.563	1	0.002	1	13.052	1	-0.362	3
231	M24	1	max	0.279	2	0.152	5	31.217	5	-0.002	4	0	7	0	7
232			min	-0.056	3	0.005	2	6.968	1	-0.009	3	0	1	0	1
233		2	max	0.279	2	0.152	5	29.103	5	-0.002	4	36.946	5	-0.006	2
234			min	-0.056	3	0.005	2	4.855	1	-0.009	3	7.242	1	-0.187	3
235		3	max	0.279	2	0.152	5	26.99	5	-0.002	4	71.303	5	-0.012	2
236			min	-0.056	3	0.005	2	2.742	1	-0.009	3	11.895	1	-0.373	3
237		4	max	0.279	2	0.152	5	24.877	5	-0.002	4	103.072	5	-0.018	2
238			min	-0.056	3	0.005	2	0.629	1	-0.009	3	13.959	1	-0.56	3
239		5	max	0.279	2	0.152	5	24.248	2	-0.002	4	132.253	5	-0.024	2
240			min	-0.056	3	0.005	2	-1.484	1	-0.009	3	13.435	1	-0.746	3
241	M25	1	max	864.34	5	-0.043	4	0.103	4	0	7	0	7	0	7
242			min	213.469	1	-0.487	3	-0.512	2	0	1	0	1	0	1
243		2	max	862.463	5	-0.043	4	0.103	4	0	7	0.171	4	0.812	5
244			min	211.592	1	-0.487	3	-0.512	2	0	1	-0.853	2	0.072	1
245		3	max	860.586	5	-0.043	4	0.103	4	0	7	0.343	4	1.623	5
246			min	209.715	1	-0.487	3	-0.512	2	0	1	-1.707	2	0.144	1
247		4	max	858.709	5	-0.043	4	0.103	4	0	7	0.514	4	2.435	5
248			min	207.838	1	-0.487	3	-0.512	2	0	1	-2.56	2	0.217	1
249		5	max	856.832	5	-0.043	4	0.103	4	0	7	0.686	4	3.246	5
250			min	205.961	1	-0.487	3	-0.512	2	0	1	-3.413	2	0.289	1
251	M26	1	max	0.018	2	0.024	5	80.062	5	0.002	4	0	7	0	7
252			min	-0.02	1	0.001	2	12.038	2	-0.025	2	0	1	0	1
253		2	max	0.018	2	0.024	5	47.324	5	0.002	4	78.024	5	-0.001	2
254			min	-0.02	1	0.001	2	12.038	2	-0.025	2	14.747	2	-0.029	3
255		3	max	0.018	2	0.024	5	14.586	5	0.002	4	115.943	5	-0.002	2
256			min	-0.02	1	0.001	2	2.547	1	-0.025	2	29.494	2	-0.059	3
257		4	max	0.018	2	0.024	5	12.038	2	0.002	4	113.758	5	-0.003	2
258			min	-0.02	1	0.001	2	-30.191	1	-0.025	2	44.241	2	-0.088	3
259		5	max	0.018	2	0.024	5	12.038	2	0.002	4	71.469	5	-0.004	2
260			min	-0.02	1	0.001	2	-62.929	1	-0.025	2	12.481	1	-0.118	3
261	M27	1	max	-0.054	4	0	7	766.869	5	0.031	5	0	7	0	7
262			min	-0.645	3	0	1	130.454	1	0.009	1	0	1	0	1
263		2	max	-0.054	4	0	7	383.592	5	0.031	5	719.235	5	0	7
264			min	-0.645	3	0	1	65.241	1	0.009	1	122.327	1	0	1
265		3	max	-0.054	4	0	7	0	7	0.031	5	958.98	5	0	7

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
266			min	-0.645	3	0	1	0	3	0.009	1	163.103	1	0	1
267		4	max	-0.054	4	0	7	-65.241	4	0.031	5	719.235	5	0	7
268			min	-0.645	3	0	1	-383.592	3	0.009	1	122.327	1	0	1
269		5	max	-0.054	4	0	7	-130.443	4	0.031	5	0	7	0	7
270			min	-0.645	3	0	1	-766.745	3	0.009	1	0	1	0	1
271	M28	1	max	-2.594	4	17.16	5	812.546	5	-0.548	4	0	7	0	7
272			min	-8.375	3	2.24	1	124.117	1	-1.415	3	0	1	0	1
273		2	max	-2.594	4	17.16	5	812.33	5	-0.548	4	20.312	5	-0.056	4
274			min	-8.375	3	2.24	1	124.058	1	-1.415	3	3.102	1	-0.429	3
275		3	max	-2.594	4	17.16	5	811.734	5	-0.548	4	40.613	5	-0.112	4
276			min	-8.375	3	2.24	1	123.964	1	-1.415	3	6.203	1	-0.858	3
277		4	max	-2.594	4	17.16	5	810.744	5	-0.548	4	60.895	5	-0.168	4
278			min	-8.375	3	2.24	1	123.835	1	-1.415	3	9.3	1	-1.287	3
279		5	max	-2.594	4	17.16	5	809.342	5	-0.548	4	81.147	5	-0.224	4
280			min	-8.375	3	2.24	1	123.668	1	-1.415	3	12.394	1	-1.716	3
281	M29	1	max	1587.119	5	-0.013	4	-0.009	4	0	7	0	7	0	7
282			min	290.486	1	-0.043	3	-0.821	3	0	1	0	1	0	1
283		2	max	1585.242	5	-0.013	4	-0.009	4	0	7	-0.015	4	0.072	5
284			min	288.609	1	-0.043	3	-0.821	3	0	1	-1.369	3	0.022	1
285		3	max	1583.365	5	-0.013	4	-0.009	4	0	7	-0.031	4	0.144	5
286			min	286.733	1	-0.043	3	-0.821	3	0	1	-2.738	3	0.044	1
287		4	max	1581.488	5	-0.013	4	-0.009	4	0	7	-0.046	4	0.216	5
288			min	284.856	1	-0.043	3	-0.821	3	0	1	-4.107	3	0.066	1
289		5	max	1579.611	5	-0.013	4	-0.009	4	0	7	-0.061	4	0.288	5
290			min	282.979	1	-0.043	3	-0.821	3	0	1	-5.476	3	0.088	1
291	M30	1	max	1584.509	5	-0.012	4	-0.012	4	0	7	0	7	0	7
292			min	290.351	1	-0.033	3	-0.837	3	0	1	0	1	0	1
293		2	max	1582.632	5	-0.012	4	-0.012	4	0	7	-0.02	4	0.055	5
294			min	288.474	1	-0.033	3	-0.837	3	0	1	-1.396	3	0.021	1
295		3	max	1580.755	5	-0.012	4	-0.012	4	0	7	-0.04	4	0.11	5
296			min	286.597	1	-0.033	3	-0.837	3	0	1	-2.792	3	0.041	1
297		4	max	1578.878	5	-0.012	4	-0.012	4	0	7	-0.061	4	0.164	5
298			min	284.72	1	-0.033	3	-0.837	3	0	1	-4.188	3	0.062	1
299		5	max	1577.001	5	-0.012	4	-0.012	4	0	7	-0.081	4	0.219	5
300			min	282.843	1	-0.033	3	-0.837	3	0	1	-5.584	3	0.083	1
301	M31	1	max	-62.03	4	210.11	5	-0.224	4	-0.708	4	0	7	0	7
302			min	-268.664	3	42.725	1	-1.61	3	-2.807	3	0	1	0	1
303		2	max	-50.12	4	122.41	5	-0.224	4	-0.708	4	-0.073	4	-10.884	4
304			min	-195.105	3	28.525	1	-1.61	3	-2.807	3	-0.525	3	-46.112	3
305		3	max	-44.375	4	115.56	5	-0.224	4	-0.708	4	-0.146	4	-19.074	4
306			min	-189.359	3	21.675	1	-1.61	3	-2.807	3	-1.051	3	-84.937	3
307		4	max	-38.629	4	108.71	5	-0.224	4	-0.708	4	-0.219	4	-25.029	4
308			min	-183.614	3	14.825	1	-1.61	3	-2.807	3	-1.576	3	-121.526	3
309		5	max	-32.884	4	101.86	5	-0.224	4	-0.708	4	-0.292	4	-28.749	4
310			min	-177.868	3	7.975	1	-1.61	3	-2.807	3	-2.101	3	-155.879	3
311	M32	1	max	-56.789	4	131.76	5	1.754	5	2.357	5	0	7	0	7
312			min	-209.637	3	35.479	1	0.227	1	0.67	1	0	1	0	1
313		2	max	-51.044	4	124.91	5	1.754	5	2.357	5	0.572	5	-10.459	4
314			min	-203.891	3	28.629	1	0.227	1	0.67	1	0.074	1	-41.875	3
315		3	max	-45.298	4	118.06	5	1.754	5	2.357	5	1.144	5	-18.683	4
316			min	-198.146	3	21.779	1	0.227	1	0.67	1	0.148	1	-81.515	3
317		4	max	-39.553	4	111.21	5	1.754	5	2.357	5	1.717	5	-24.672	4
318			min	-192.4	3	14.929	1	0.227	1	0.67	1	0.222	1	-118.92	3
319		5	max	-33.808	4	104.36	5	1.754	5	2.357	5	2.289	5	-28.426	4
320			min	-186.655	3	8.079	1	0.227	1	0.67	1	0.296	1	-154.09	3

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
321	M33	1	max	-12.615	4	-16.212	4	-0.905	4	-0.022	4	4.331	5	-28.757	4
322			min	-28.137	3	-76.925	3	-6.65	3	-0.224	3	0.588	1	-155.975	3
323		2	max	-6.904	4	-23.062	4	-0.905	4	-0.022	4	2.166	5	-22.365	4
324			min	-22.426	3	-83.775	3	-6.65	3	-0.224	3	0.294	1	-129.822	3
325		3	max	-1.192	4	-29.912	4	-0.905	4	-0.022	4	0.003	2	-13.743	4
326			min	-16.715	3	-90.625	3	-6.65	3	-0.224	3	-0.001	1	-101.439	3
327		4	max	4.519	4	-36.762	4	-0.905	4	-0.022	4	-0.296	4	-2.892	4
328			min	-13.516	2	-97.475	3	-6.65	3	-0.224	3	-2.163	3	-70.826	3
329		5	max	10.23	4	-43.612	4	-0.905	4	-0.022	4	-0.591	4	10.188	4
330			min	-13.516	2	-104.325	3	-6.65	3	-0.224	3	-4.328	3	-50.175	2
331	M34	1	max	-13.598	4	-16.03	4	6.794	5	-0.016	4	-0.59	4	-28.418	4
332			min	-37.474	3	-73.569	3	0.908	1	-0.226	3	-4.423	3	-153.995	3
333		2	max	-7.887	4	-22.88	4	6.794	5	-0.016	4	-0.294	4	-22.085	4
334			min	-31.763	3	-80.419	3	0.908	1	-0.226	3	-2.212	3	-128.933	3
335		3	max	-2.176	4	-29.73	4	6.794	5	-0.016	4	0.001	4	-13.523	4
336			min	-26.052	3	-87.269	3	0.908	1	-0.226	3	-0.002	2	-101.643	3
337		4	max	3.535	4	-36.58	4	6.794	5	-0.016	4	2.211	5	-2.731	4
338			min	-22.346	2	-94.119	3	0.908	1	-0.226	3	0.297	1	-72.123	3
339		5	max	9.246	4	-43.43	4	6.794	5	-0.016	4	4.423	5	10.29	4
340			min	-22.346	2	-100.969	3	0.908	1	-0.226	3	0.592	1	-51.193	2
341	M35	1	max	133.572	5	-67.639	4	6.639	5	-0.019	4	-0.593	4	10.298	4
342			min	29.375	1	-279.378	3	0.911	1	-0.225	3	-4.321	3	-51.107	2
343		2	max	139.283	5	-74.489	4	6.639	5	-0.019	4	-0.296	4	51.774	5
344			min	35.087	1	-286.228	3	0.911	1	-0.225	3	-2.161	3	17.655	2
345		3	max	144.994	5	-81.339	4	6.639	5	-0.019	4	0	5	146.054	5
346			min	40.798	1	-293.078	3	0.911	1	-0.225	3	0	1	58.789	1
347		4	max	150.706	5	-88.189	4	6.639	5	-0.019	4	2.161	5	242.564	5
348			min	46.509	1	-299.928	3	0.911	1	-0.225	3	0.296	1	86.379	1
349		5	max	156.417	5	-95.039	4	6.639	5	-0.019	4	4.322	5	341.303	5
350			min	52.22	1	-306.778	3	0.911	1	-0.225	3	0.593	1	116.199	1
351	M36	1	max	142.914	5	-67.827	4	-0.914	4	-0.019	4	4.425	5	10.18	4
352			min	30.359	1	-282.983	3	-6.798	3	-0.225	3	0.595	1	-50.26	2
353		2	max	148.625	5	-74.677	4	-0.914	4	-0.019	4	2.213	5	55.145	5
354			min	36.07	1	-289.833	3	-6.798	3	-0.225	3	0.297	1	19.404	2
355		3	max	154.336	5	-81.527	4	-0.914	4	-0.019	4	0	5	150.598	5
356			min	41.781	1	-296.683	3	-6.798	3	-0.225	3	0	1	58.794	1
357		4	max	160.047	5	-88.377	4	-0.914	4	-0.019	4	-0.298	4	248.282	5
358			min	47.493	1	-303.533	3	-6.798	3	-0.225	3	-2.212	3	86.445	1
359		5	max	165.758	5	-95.227	4	-0.914	4	-0.019	4	-0.595	4	348.195	5
360			min	53.204	1	-310.383	3	-6.798	3	-0.225	3	-4.425	3	116.327	1
361	M37	1	max	304.504	5	-119.215	4	6.428	5	-0.02	4	-0.59	4	341.398	5
362			min	72.347	1	-484.897	3	0.906	1	-0.226	3	-4.187	3	116.207	1
363		2	max	310.216	5	-126.065	4	6.428	5	-0.02	4	-0.295	4	500.343	5
364			min	78.058	1	-491.747	3	0.906	1	-0.226	3	-2.094	3	156.126	1
365		3	max	315.927	5	-132.915	4	6.428	5	-0.02	4	0	4	661.519	5
366			min	83.77	1	-498.597	3	0.906	1	-0.226	3	-0.002	3	198.274	1
367		4	max	321.638	5	-139.765	4	6.428	5	-0.02	4	2.09	5	824.923	5
368			min	89.481	1	-505.447	3	0.906	1	-0.226	3	0.295	1	242.652	1
369		5	max	327.349	5	-146.615	4	6.428	5	-0.02	4	4.183	5	990.558	5
370			min	95.192	1	-512.297	3	0.906	1	-0.226	3	0.59	1	289.259	1
371	M38	1	max	314.078	5	-119.408	4	-0.916	4	-0.019	4	4.548	5	348.1	5
372			min	73.335	1	-488.717	3	-6.983	3	-0.215	3	0.596	1	116.318	1
373		2	max	319.789	5	-126.258	4	-0.916	4	-0.019	4	2.275	5	508.289	5
374			min	79.046	1	-495.567	3	-6.983	3	-0.215	3	0.298	1	156.3	1
375		3	max	325.5	5	-133.108	4	-0.916	4	-0.019	4	0.002	5	670.708	5

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
376			min	84.757	1	-502.417	3	-6.983	3	-0.215	3	0	1	198.511	1
377		4	max	331.212	5	-139.958	4	-0.916	4	-0.019	4	-0.298	4	835.357	5
378			min	90.469	1	-509.267	3	-6.983	3	-0.215	3	-2.271	3	242.952	1
379		5	max	336.923	5	-146.808	4	-0.916	4	-0.019	4	-0.596	4	1002.235	5
380			min	96.18	1	-516.117	3	-6.983	3	-0.215	3	-4.543	3	289.622	1
381	M39	1	max	-133.78	4	665.267	5	6.082	5	-0.157	4	-0.602	4	993.06	5
382			min	-557.573	3	160.846	1	0.83	1	-1.728	3	-4.644	3	290.186	1
383		2	max	-128.103	4	658.417	5	6.082	5	-0.157	4	-0.333	4	778.163	5
384			min	-551.896	3	153.996	1	0.83	1	-1.728	3	-2.669	3	239.072	1
385		3	max	-122.426	4	651.567	5	6.082	5	-0.157	4	-0.063	4	565.49	5
386			min	-546.219	3	147.146	1	0.83	1	-1.728	3	-0.694	3	190.182	1
387		4	max	-116.75	4	644.717	5	6.082	5	-0.157	4	1.281	5	355.042	5
388			min	-540.542	3	140.296	1	0.83	1	-1.728	3	0.206	1	143.517	1
389		5	max	-85.58	4	299.504	5	6.082	5	-0.157	4	3.255	5	167.965	5
390			min	-254.447	3	102.686	1	0.83	1	-1.728	3	0.476	1	65.471	2
391	M40	1	max	-113.47	4	409.848	5	-0.418	4	1.325	5	1.323	5	1005.123	5
392			min	-333.429	3	137.495	1	-0.986	3	0.121	1	0.333	1	290.579	1
393		2	max	-107.793	4	402.998	5	-0.418	4	1.325	5	1.003	5	873.159	5
394			min	-327.752	3	130.645	1	-0.986	3	0.121	1	0.198	1	247.048	1
395		3	max	-102.116	4	396.148	5	-0.418	4	1.325	5	0.682	5	743.42	5
396			min	-322.075	3	123.795	1	-0.986	3	0.121	1	0.062	1	205.74	1
397		4	max	-96.439	4	389.298	5	-0.418	4	1.325	5	0.376	2	615.905	5
398			min	-316.398	3	116.945	1	-0.986	3	0.121	1	-0.074	1	166.656	1
399		5	max	-90.762	4	382.448	5	-0.418	4	1.325	5	0.131	2	490.614	5
400			min	-310.721	3	110.095	1	-0.986	3	0.121	1	-0.209	1	129.797	1
401	M41	1	max	-78.428	4	290.058	5	6.082	5	1.495	5	-0.477	4	168.014	5
402			min	-246.356	3	93.659	1	0.829	1	0.136	1	-3.268	3	65.515	2
403		2	max	-72.717	4	283.208	5	6.082	5	1.495	5	-0.207	4	74.717	5
404			min	-240.645	3	86.809	1	0.829	1	0.136	1	-1.289	3	1.717	2
405		3	max	-67.006	4	276.358	5	6.082	5	1.495	5	0.691	5	44.491	4
406			min	-234.934	3	79.959	1	0.829	1	0.136	1	0.063	1	-62.081	2
407		4	max	-61.294	4	269.508	5	6.082	5	1.495	5	2.671	5	19.58	4
408			min	-229.223	3	73.109	1	0.829	1	0.136	1	0.333	1	-125.879	2
409		5	max	-55.583	4	262.658	5	6.082	5	1.495	5	4.65	5	-3.101	4
410			min	-223.512	3	66.259	1	0.829	1	0.136	1	0.603	1	-191.797	3
411	M42	1	max	-83.899	4	372.657	5	-0.417	4	-0.141	4	0.209	4	490.565	5
412			min	-306.183	3	101.037	1	-0.986	3	-1.551	3	-0.136	2	129.793	1
413		2	max	-78.188	4	365.807	5	-0.417	4	-0.141	4	0.073	4	370.383	5
414			min	-300.471	3	94.187	1	-0.986	3	-1.551	3	-0.382	2	98.021	1
415		3	max	-72.477	4	358.957	5	-0.417	4	-0.141	4	-0.063	4	252.429	5
416			min	-294.76	3	87.337	1	-0.986	3	-1.551	3	-0.69	3	68.478	1
417		4	max	-66.766	4	352.107	5	-0.417	4	-0.141	4	-0.198	4	136.706	5
418			min	-289.049	3	80.487	1	-0.986	3	-1.551	3	-1.011	3	41.166	1
419		5	max	-61.054	4	345.257	5	-0.417	4	-0.141	4	-0.334	4	23.212	5
420			min	-283.338	3	73.637	1	-0.986	3	-1.551	3	-1.332	3	4.496	2
421	M43	1	max	-35.32	4	84.956	5	10.903	5	0.879	5	-0.793	4	-3.103	4
422			min	-73.652	3	42.121	1	1.269	1	0.081	1	-6.743	3	-191.815	3
423		2	max	-29.609	4	78.106	5	10.903	5	0.879	5	-0.38	4	-15.698	4
424			min	-67.941	3	35.271	1	1.269	1	0.081	1	-3.194	3	-218.353	3
425		3	max	-23.898	4	71.256	5	10.903	5	0.879	5	0.354	5	-26.064	4
426			min	-62.23	3	28.421	1	1.269	1	0.081	1	0.033	1	-242.662	3
427		4	max	-18.186	4	64.406	5	10.903	5	0.879	5	3.903	5	-34.2	4
428			min	-56.519	3	21.571	1	1.269	1	0.081	1	0.446	1	-264.74	3
429		5	max	-12.475	4	57.556	5	10.903	5	0.879	5	7.452	5	-40.107	4
430			min	-50.808	3	14.721	1	1.269	1	0.081	1	0.859	1	-284.589	3

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
431	M44	1	max	-41.06	4	167.448	5	-0.857	4	-0.064	4	3.421	5	23.23	5
432			min	-136.79	3	49.488	1	-5.807	3	-0.695	3	0.525	1	4.512	2
433		2	max	-35.348	4	160.598	5	-0.857	4	-0.064	4	1.531	5	1.091	4
434			min	-131.078	3	42.638	1	-5.807	3	-0.695	3	0.246	1	-33.554	2
435		3	max	-29.637	4	153.748	5	-0.857	4	-0.064	4	-0.033	4	-11.673	4
436			min	-125.367	3	35.788	1	-5.807	3	-0.695	3	-0.359	3	-81.317	3
437		4	max	-23.926	4	146.898	5	-0.857	4	-0.064	4	-0.312	4	-22.207	4
438			min	-119.656	3	28.938	1	-5.807	3	-0.695	3	-2.249	3	-130.246	3
439		5	max	-18.215	4	140.048	5	-0.857	4	-0.064	4	-0.59	4	-30.511	4
440			min	-113.945	3	22.088	1	-5.807	3	-0.695	3	-4.139	3	-176.946	3
441	M45	1	max	170.696	5	-17.108	4	5.62	5	0	7	-0.671	4	-40.112	4
442			min	14.263	1	-204.927	3	0.515	1	0	1	-7.317	3	-284.647	3
443		2	max	176.407	5	-23.958	4	5.62	5	0	7	-0.503	4	-33.428	4
444			min	19.974	1	-211.777	3	0.515	1	0	1	-5.488	3	-216.83	3
445		3	max	182.118	5	-30.808	4	5.62	5	0	7	-0.336	4	-24.515	4
446			min	25.685	1	-218.627	3	0.515	1	0	1	-3.659	3	-146.783	3
447		4	max	187.829	5	-37.658	4	5.62	5	0	7	-0.168	4	-13.372	4
448			min	31.396	1	-225.477	3	0.515	1	0	1	-1.829	3	-74.506	3
449		5	max	193.54	5	-44.508	4	5.62	5	0	7	0	7	0	7
450			min	37.107	1	-232.327	3	0.515	1	0	1	0	1	0	1
451	M46	1	max	101.841	5	-9.731	4	0.618	5	0	7	0.119	4	-30.506	4
452			min	8.113	1	-122.161	3	-0.092	1	0	1	-0.804	3	-176.888	3
453		2	max	107.553	5	-16.581	4	0.618	5	0	7	0.09	4	-26.224	4
454			min	13.824	1	-129.011	3	-0.092	1	0	1	-0.603	3	-136.01	3
455		3	max	113.264	5	-23.431	4	0.618	5	0	7	0.06	4	-19.712	4
456			min	19.535	1	-135.861	3	-0.092	1	0	1	-0.402	3	-92.903	3
457		4	max	118.975	5	-30.281	4	0.618	5	0	7	0.03	4	-10.971	4
458			min	25.247	1	-142.711	3	-0.092	1	0	1	-0.201	3	-47.566	3
459		5	max	124.686	5	-37.131	4	0.618	5	0	7	0	7	0	7
460			min	30.958	1	-149.561	3	-0.092	1	0	1	0	1	0	1
461	M47	1	max	5.041	5	-0.001	4	-31.52	4	0.096	5	6.283	5	-0.239	4
462			min	0.681	1	-0.054	3	-232.421	3	0.008	1	1.094	1	-3.492	3
463		2	max	5.041	5	-0.001	4	-15.713	4	0.096	5	-22.55	4	-0.238	4
464			min	0.681	1	-0.054	3	-115.713	3	0.008	1	-168.09	3	-3.438	3
465		3	max	5.041	5	-0.001	4	-0.071	4	0.096	5	-30.381	4	-0.237	4
466			min	0.681	1	-0.054	3	-0.819	3	0.008	1	-225.682	3	-3.384	3
467		4	max	5.041	5	-0.001	4	115.942	5	0.096	5	-22.617	4	-0.236	4
468			min	0.681	1	-0.054	3	15.74	1	0.008	1	-168.895	3	-3.33	3
469		5	max	5.041	5	-0.001	4	233.406	5	0.096	5	6.102	5	-0.235	4
470			min	0.681	1	-0.054	3	31.616	1	0.008	1	1.09	1	-3.276	3
471	M48	1	max	0.006	4	0.002	5	-31.433	4	0.096	5	5.598	5	-0.908	4
472			min	-0.013	2	0	1	-231.432	3	0.008	1	0.762	1	-6.717	3
473		2	max	0.006	4	0.002	5	-15.717	4	0.096	5	-22.814	4	-0.909	4
474			min	-0.013	2	0	1	-115.715	3	0.008	1	-167.975	3	-6.718	3
475		3	max	0.006	4	0.002	5	0.002	5	0.096	5	-30.672	4	-0.909	4
476			min	-0.013	2	0	1	0	1	0.008	1	-225.832	3	-6.72	3
477		4	max	0.006	4	0.002	5	115.718	5	0.096	5	-22.814	4	-0.909	4
478			min	-0.013	2	0	1	15.717	1	0.008	1	-167.972	3	-6.722	3
479		5	max	0.006	4	0.002	5	231.435	5	0.096	5	5.605	5	-0.909	4
480			min	-0.013	2	0	1	31.433	1	0.008	1	0.761	1	-6.723	3
481	M49	1	max	-0.002	4	0.088	5	-31.432	4	0.095	5	5.449	5	-0.908	4
482			min	-0.013	3	0.002	1	-231.357	3	0.008	1	0.758	1	-6.534	3
483		2	max	-0.002	4	0.088	5	-15.715	4	0.095	5	-22.816	4	-0.91	4
484			min	-0.013	3	0.002	1	-115.641	3	0.008	1	-168.05	3	-6.622	3
485		3	max	-0.002	4	0.088	5	0.076	5	0.095	5	-30.673	4	-0.911	4

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
486			min	-0.013	3	0.002	1	0.001	1	0.008	1	-225.832	3	-6.71	3
487		4	max	-0.002	4	0.088	5	115.793	5	0.095	5	-22.813	4	-0.913	4
488			min	-0.013	3	0.002	1	15.718	1	0.008	1	-167.898	3	-6.798	3
489		5	max	-0.002	4	0.088	5	231.509	5	0.095	5	5.753	5	-0.915	4
490			min	-0.013	3	0.002	1	31.435	1	0.008	1	0.763	1	-6.885	3
491	M50	1	max	-6.049	4	-0.1	4	-31.392	4	0.092	5	5.552	5	-0.93	4
492			min	-21.899	3	-1.111	3	-230.995	3	0.008	1	0.753	1	-6.916	3
493		2	max	-6.049	4	-0.1	4	-15.688	4	0.092	5	-22.787	4	-0.83	4
494			min	-21.899	3	-1.111	3	-115.413	3	0.008	1	-167.652	3	-5.804	3
495		3	max	-6.049	4	-0.1	4	0.168	5	0.092	5	-30.623	4	-0.73	4
496			min	-21.899	3	-1.111	3	0.017	1	0.008	1	-225.274	3	-4.693	3
497		4	max	-6.049	4	-0.1	4	115.75	5	0.092	5	-22.754	4	-0.63	4
498			min	-21.899	3	-1.111	3	15.721	1	0.008	1	-167.315	3	-3.582	3
499		5	max	-6.049	4	-0.1	4	231.331	5	0.092	5	6.225	5	-0.53	4
500			min	-21.899	3	-1.111	3	31.426	1	0.008	1	0.82	1	-2.471	3
501	M51	1	max	0.001	2	-0.108	4	-0.834	2	0.049	5	1.691	5	-0.92	4
502			min	-0.001	1	-1.327	3	-12.423	3	0.004	1	0.384	1	-7.077	3
503		2	max	0.001	2	-0.108	4	-0.834	2	0.049	5	0.32	2	-0.812	4
504			min	-0.001	1	-1.327	3	-6.707	3	0.004	1	-8.271	1	-5.75	3
505		3	max	0.001	2	-0.108	4	-0.08	4	0.049	5	-0.514	2	-0.704	4
506			min	-0.001	1	-1.327	3	-0.99	3	0.004	1	-11.722	3	-4.423	3
507		4	max	0.001	2	-0.108	4	5.637	4	0.049	5	-1.348	2	-0.597	4
508			min	-0.001	1	-1.327	3	-0.834	2	0.004	1	-9.854	3	-3.096	3
509		5	max	0.001	2	-0.108	4	11.354	4	0.049	5	0.066	4	-0.489	4
510			min	-0.001	1	-1.327	3	-0.834	2	0.004	1	-2.269	3	-1.769	3
511	M52	1	max	4.821	5	-0.107	4	-31.515	4	-0.002	4	7.769	5	-1.037	4
512			min	0.44	1	-1.313	3	-232.45	3	-0.018	3	0.936	1	-8.356	3
513		2	max	4.821	5	-0.107	4	-15.798	4	-0.002	4	-22.72	4	-0.93	4
514			min	0.44	1	-1.313	3	-116.734	3	-0.018	3	-166.823	3	-7.043	3
515		3	max	4.821	5	-0.107	4	-0.082	4	-0.002	4	-30.661	4	-0.823	4
516			min	0.44	1	-1.313	3	-1.017	3	-0.018	3	-225.698	3	-5.729	3
517		4	max	4.821	5	-0.107	4	114.7	5	-0.002	4	-22.884	4	-0.717	4
518			min	0.44	1	-1.313	3	15.635	1	-0.018	3	-168.857	3	-4.416	3
519		5	max	4.821	5	-0.107	4	230.416	5	-0.002	4	3.701	5	-0.61	4
520			min	0.44	1	-1.313	3	31.352	1	-0.018	3	0.609	1	-3.102	3
521	M53	1	max	-0.76	4	-0.155	4	-41.568	4	-0.005	4	10.133	5	-1.123	4
522			min	-5.987	3	-2.166	3	-343.299	3	-0.058	3	1.041	1	-10.781	3
523		2	max	-0.76	4	-0.155	4	-20.851	4	-0.005	4	-30.168	4	-0.969	4
524			min	-5.987	3	-2.166	3	-172.582	3	-0.058	3	-247.808	3	-8.615	3
525		3	max	-0.76	4	-0.155	4	-0.134	4	-0.005	4	-40.661	4	-0.814	4
526			min	-5.987	3	-2.166	3	-1.866	3	-0.058	3	-335.032	3	-6.449	3
527		4	max	-0.76	4	-0.155	4	168.851	5	-0.005	4	-30.437	4	-0.659	4
528			min	-5.987	3	-2.166	3	20.582	1	-0.058	3	-251.54	3	-4.283	3
529		5	max	-0.76	4	-0.155	4	339.568	5	-0.005	4	2.669	5	-0.504	4
530			min	-5.987	3	-2.166	3	41.299	1	-0.058	3	0.504	1	-2.117	3
531	M54	1	max	5.536	5	5.212	5	0.834	4	0.982	5	315.034	5	15.636	5
532			min	1.669	1	0.61	1	-65.081	2	0.365	1	117.761	1	1.829	1
533		2	max	5.536	5	5.212	5	-19.21	4	0.982	5	258.825	5	11.727	5
534			min	1.669	1	0.61	1	-84.968	3	0.365	1	110.87	1	1.371	1
535		3	max	5.536	5	5.212	5	-39.254	4	0.982	5	187.583	5	7.818	5
536			min	1.669	1	0.61	1	-105.011	3	0.365	1	88.946	1	0.914	1
537		4	max	5.536	5	5.212	5	-59.298	4	0.982	5	101.308	5	3.909	5
538			min	1.669	1	0.61	1	-125.055	3	0.365	1	48.81	2	0.457	1
539		5	max	5.536	5	5.212	5	-65.081	2	0.982	5	0	7	0	7
540			min	1.669	1	0.61	1	-145.099	3	0.365	1	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
541	M55	1	max	1438.18	5	0	7	0	7	0	7	0	7	0	7
542			min	411.056	1	0	1	0	1	0	1	0	1	0	1
543		2	max	1437.243	5	0	7	0	7	0	7	0	7	0	7
544			min	410.119	1	0	1	0	1	0	1	0	1	0	1
545		3	max	1436.306	5	0	7	0	7	0	7	0	7	0	7
546			min	409.182	1	0	1	0	1	0	1	0	1	0	1
547		4	max	1435.369	5	0	7	0	7	0	7	0	7	0	7
548			min	408.245	1	0	1	0	1	0	1	0	1	0	1
549		5	max	1434.432	5	0	7	0	7	0	7	0	7	0	7
550			min	407.308	1	0	1	0	1	0	1	0	1	0	1
551	M56	1	max	1765.888	5	0	7	0	7	0	7	0	7	0	7
552			min	441.118	1	0	1	0	1	0	1	0	1	0	1
553		2	max	1764.951	5	0	7	0	7	0	7	0	7	0	7
554			min	440.181	1	0	1	0	1	0	1	0	1	0	1
555		3	max	1764.014	5	0	7	0	7	0	7	0	7	0	7
556			min	439.244	1	0	1	0	1	0	1	0	1	0	1
557		4	max	1763.076	5	0	7	0	7	0	7	0	7	0	7
558			min	438.307	1	0	1	0	1	0	1	0	1	0	1
559		5	max	1762.139	5	0	7	0	7	0	7	0	7	0	7
560			min	437.37	1	0	1	0	1	0	1	0	1	0	1
561	M57	1	max	-0.002	4	0	7	678.668	5	0	2	0	7	0	7
562			min	-0.142	3	0	1	65.618	1	0	1	0	1	0	1
563		2	max	-0.002	4	0	7	341.327	5	0	2	635.123	5	0	7
564			min	-0.142	3	0	1	32.99	1	0	1	61.414	1	0	1
565		3	max	-0.002	4	0	7	5.809	5	0	2	853.217	5	0	7
566			min	-0.142	3	0	1	0.528	1	0	1	82.466	1	0	1
567		4	max	-0.002	4	0	7	-33.376	4	0	2	641.331	5	0	7
568			min	-0.142	3	0	1	-345.57	3	0	1	61.978	1	0	1
569		5	max	-0.002	4	0	7	-66.084	4	0	2	0	7	0	7
570			min	-0.142	3	0	1	-683.803	3	0	1	0	1	0	1
571	M58	1	max	0.081	5	0	7	678.657	5	0	4	0	7	0	7
572			min	-0.221	2	0	1	65.617	1	0	3	0	1	0	1
573		2	max	0.081	5	0	7	341.103	5	0	4	634.974	5	0	7
574			min	-0.221	2	0	1	32.97	1	0	3	61.4	1	0	1
575		3	max	0.081	5	0	7	6.009	5	0	4	853.013	5	0	7
576			min	-0.221	2	0	1	0.546	1	0	3	82.447	1	0	1
577		4	max	0.081	5	0	7	-33.366	4	0	4	641.268	5	0	7
578			min	-0.221	2	0	1	-345.467	3	0	3	61.973	1	0	1
579		5	max	0.081	5	0	7	-66.083	4	0	4	0	7	0	7
580			min	-0.221	2	0	1	-683.791	3	0	3	0	1	0	1
581	M59	1	max	1.362	5	0	7	692.741	5	0.001	5	0	7	0	7
582			min	-0.525	2	0	1	66.897	1	0	1	0	1	0	1
583		2	max	1.362	5	0	7	345.784	5	0.001	5	646.593	5	0	7
584			min	-0.525	2	0	1	33.395	1	0	1	62.457	1	0	1
585		3	max	1.362	5	0	7	4.035	5	0.001	5	865.883	5	0	7
586			min	-0.525	2	0	1	0.367	1	0	1	83.617	1	0	1
587		4	max	1.362	5	0	7	-33.878	4	0.001	5	649.145	5	0	7
588			min	-0.525	2	0	1	-351.091	3	0	1	62.689	1	0	1
589		5	max	1.362	5	0	7	-66.737	4	0.001	5	0	7	0	7
590			min	-0.525	2	0	1	-690.977	3	0	1	0	1	0	1
591	M60	1	max	0.213	5	0	7	678.489	5	0.008	2	0	7	0	7
592			min	0.017	1	0	1	65.601	1	-0.008	1	0	1	0	1
593		2	max	0.213	5	0	7	341.091	5	0.008	2	634.996	5	0	7
594			min	0.017	1	0	1	32.968	1	-0.008	1	61.402	1	0	1
595		3	max	0.213	5	0	7	5.916	5	0.008	2	852.928	5	0	7

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
596			min	0.017	1	0	1	0.538	1	-0.008	1	82.439	1	0	1
597		4	max	0.213	5	0	7	-33.368	4	0.008	2	641.143	5	0	7
598			min	0.017	1	0	1	-345.49	3	-0.008	1	61.961	1	0	1
599		5	max	0.213	5	0	7	-66.101	4	0.008	2	0	7	0	7
600			min	0.017	1	0	1	-683.982	3	-0.008	1	0	1	0	1
601	M61	1	max	-0.166	2	0	7	-64.54	4	0.001	4	0	7	0	7
602			min	-3.187	3	0	1	-666.819	3	-0.001	2	0	1	0	1
603		2	max	-0.166	2	0	7	-32.536	4	0.001	4	-60.481	4	0	7
604			min	-3.187	3	0	1	-336.337	3	-0.001	2	-624.858	3	0	1
605		3	max	-0.166	2	0	7	5.203	5	0.001	4	-80.441	4	0	7
606			min	-3.187	3	0	1	0.473	1	-0.001	2	-830.941	3	0	1
607		4	max	-0.166	2	0	7	330.794	5	0.001	4	-60.091	4	0	7
608			min	-3.187	3	0	1	32.032	1	-0.001	2	-620.575	3	0	1
609		5	max	-0.166	2	0	7	664.317	5	0.001	4	0	7	0	7
610			min	-3.187	3	0	1	64.313	1	-0.001	2	0	1	0	1
611	M62	1	max	-0.341	2	0	7	-64.545	4	-0.001	4	0	7	0	7
612			min	-6.886	3	0	1	-666.873	3	-0.004	3	0	1	0	1
613		2	max	-0.341	2	0	7	-32.534	4	-0.001	4	-60.483	4	0	7
614			min	-6.886	3	0	1	-336.315	3	-0.004	3	-624.887	3	0	1
615		3	max	-0.341	2	0	7	5.187	5	-0.001	4	-80.445	4	0	7
616			min	-6.886	3	0	1	0.472	1	-0.004	3	-830.988	3	0	1
617		4	max	-0.341	2	0	7	330.78	5	-0.001	4	-60.091	4	0	7
618			min	-6.886	3	0	1	32.031	1	-0.004	3	-620.569	3	0	1
619		5	max	-0.341	2	0	7	664.263	5	-0.001	4	0	7	0	7
620			min	-6.886	3	0	1	64.308	1	-0.004	3	0	1	0	1
621	M63	1	max	-0.585	2	0	7	-64.843	4	-0.294	2	0	7	0	7
622			min	-14.501	3	0	1	-670.147	3	-0.619	3	0	1	0	1
623		2	max	-0.585	2	0	7	-32.811	4	-0.294	2	-60.72	4	0	7
624			min	-14.501	3	0	1	-339.353	3	-0.619	3	-627.488	3	0	1
625		3	max	-0.585	2	0	7	-0.328	4	-0.294	2	-81.486	4	0	7
626			min	-14.501	3	0	1	-3.613	3	-0.619	3	-842.439	3	0	1
627		4	max	-0.585	2	0	7	341.266	5	-0.294	2	-61.086	4	0	7
628			min	-14.501	3	0	1	32.984	1	-0.619	3	-631.512	3	0	1
629		5	max	-0.585	2	0	7	672.18	5	-0.294	2	0	7	0	7
630			min	-14.501	3	0	1	65.028	1	-0.619	3	0	1	0	1
631	M64	1	max	-0.042	2	0	7	-64.532	4	0.252	4	0	7	0	7
632			min	-1.201	3	0	1	-666.728	3	-0.183	2	0	1	0	1
633		2	max	-0.042	2	0	7	-32.532	4	0.252	4	-60.494	4	0	7
634			min	-1.201	3	0	1	-336.294	3	-0.183	2	-625.008	3	0	1
635		3	max	-0.042	2	0	7	5.198	5	0.252	4	-80.453	4	0	7
636			min	-1.201	3	0	1	0.473	1	-0.183	2	-831.081	3	0	1
637		4	max	-0.042	2	0	7	330.787	5	0.252	4	-60.101	4	0	7
638			min	-1.201	3	0	1	32.032	1	-0.183	2	-620.682	3	0	1
639		5	max	-0.042	2	0	7	664.407	5	0.252	4	0	7	0	7
640			min	-1.201	3	0	1	64.321	1	-0.183	2	0	1	0	1
641	M65	1	max	0.133	2	0	7	4.313	7	0.006	5	0	7	0	7
642			min	-0.004	1	0	1	0	2	0.001	1	0	1	0	1
643		2	max	0.133	2	0	7	2.156	7	0.006	5	4.043	7	0	7
644			min	-0.004	1	0	1	0	2	0.001	1	0	2	0	1
645		3	max	0.133	2	0	7	0	7	0.006	5	5.391	7	0	7
646			min	-0.004	1	0	1	0	1	0.001	1	0	2	0	1
647		4	max	0.133	2	0	7	0	2	0.006	5	4.043	7	0	7
648			min	-0.004	1	0	1	-2.156	1	0.001	1	0	2	0	1
649		5	max	0.133	2	0	7	0	2	0.006	5	0	7	0	7
650			min	-0.004	1	0	1	-4.313	1	0.001	1	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
651	M66	1	max	0.177	2	0	7	4.313	7	-0.001	4	0	7	0	7
652			min	-0.001	1	0	1	0	2	-0.006	3	0	1	0	1
653		2	max	0.177	2	0	7	2.156	7	-0.001	4	4.043	7	0	7
654			min	-0.001	1	0	1	0	2	-0.006	3	0	2	0	1
655		3	max	0.177	2	0	7	0	7	-0.001	4	5.391	7	0	7
656			min	-0.001	1	0	1	0	1	-0.006	3	0	2	0	1
657		4	max	0.177	2	0	7	0	2	-0.001	4	4.043	7	0	7
658			min	-0.001	1	0	1	-2.156	1	-0.006	3	0	2	0	1
659		5	max	0.177	2	0	7	0	2	-0.001	4	0	7	0	7
660			min	-0.001	1	0	1	-4.313	1	-0.006	3	0	1	0	1
661	M67	1	max	0.237	2	0	7	4.313	7	0.007	5	0	7	0	7
662			min	-0.061	3	0	1	0	2	0.002	1	0	1	0	1
663		2	max	0.237	2	0	7	2.156	7	0.007	5	4.043	7	0	7
664			min	-0.061	3	0	1	0	2	0.002	1	0	2	0	1
665		3	max	0.237	2	0	7	0	7	0.007	5	5.391	7	0	7
666			min	-0.061	3	0	1	0	1	0.002	1	0	2	0	1
667		4	max	0.237	2	0	7	0	2	0.007	5	4.043	7	0	7
668			min	-0.061	3	0	1	-2.156	1	0.002	1	0	2	0	1
669		5	max	0.237	2	0	7	0	2	0.007	5	0	7	0	7
670			min	-0.061	3	0	1	-4.313	1	0.002	1	0	1	0	1
671	M68	1	max	0.02	4	0	7	4.813	4	0.026	2	2.123	2	0	6
672			min	-0.018	2	0	1	-0.425	2	-0.004	1	-2.504	1	0	3
673		2	max	0.02	4	0	7	2.657	4	0.026	2	3.757	5	0	7
674			min	-0.018	2	0	1	-0.425	2	-0.004	1	1.592	2	0	3
675		3	max	0.02	4	0	7	0.501	4	0.026	2	5.2	5	0	7
676			min	-0.018	2	0	1	-0.425	2	-0.004	1	1.061	2	0	1
677		4	max	0.02	4	0	7	-0.425	2	0.026	2	3.948	5	0	7
678			min	-0.018	2	0	1	-2.08	3	-0.004	1	0.531	2	0	1
679		5	max	0.02	4	0	7	-0.425	2	0.026	2	0	7	0	7
680			min	-0.018	2	0	1	-4.236	3	-0.004	1	0	1	0	1
681	M69	1	max	0.131	2	-0.121	2	-130.358	4	-0.002	4	130.864	5	-0.012	2
682			min	0.003	1	-1.946	3	-1308.551	3	-0.008	3	13.044	1	-0.195	3
683		2	max	0.131	2	-0.121	2	-130.401	4	-0.002	4	98.149	5	-0.009	2
684			min	0.003	1	-1.946	3	-1308.594	3	-0.008	3	9.785	1	-0.146	3
685		3	max	0.131	2	-0.121	2	-130.444	4	-0.002	4	65.434	5	-0.006	2
686			min	0.003	1	-1.946	3	-1308.637	3	-0.008	3	6.524	1	-0.097	3
687		4	max	0.131	2	-0.121	2	-130.487	4	-0.002	4	32.718	5	-0.003	2
688			min	0.003	1	-1.946	3	-1308.68	3	-0.008	3	3.263	1	-0.049	3
689		5	max	0.131	2	-0.121	2	-130.53	4	-0.002	4	0	7	0	7
690			min	0.003	1	-1.946	3	-1308.724	3	-0.008	3	0	1	0	1
691	M70	1	max	0.172	2	-0.171	2	-130.411	4	0.008	5	130.869	5	-0.017	2
692			min	-0.003	1	-3.624	3	-1308.6	3	0.002	1	13.05	1	-0.362	3
693		2	max	0.172	2	-0.171	2	-130.454	4	0.008	5	98.153	5	-0.013	2
694			min	-0.003	1	-3.624	3	-1308.643	3	0.002	1	9.789	1	-0.272	3
695		3	max	0.172	2	-0.171	2	-130.497	4	0.008	5	65.436	5	-0.009	2
696			min	-0.003	1	-3.624	3	-1308.686	3	0.002	1	6.527	1	-0.181	3
697		4	max	0.172	2	-0.171	2	-130.54	4	0.008	5	32.719	5	-0.004	2
698			min	-0.003	1	-3.624	3	-1308.729	3	0.002	1	3.264	1	-0.091	3
699		5	max	0.172	2	-0.171	2	-130.583	4	0.008	5	0	7	0	7
700			min	-0.003	1	-3.624	3	-1308.773	3	0.002	1	0	1	0	1
701	M71	1	max	0.279	2	-0.239	2	-131.057	4	-0.002	4	131.637	5	-0.024	2
702			min	-0.056	3	-7.463	3	-1316.289	3	-0.009	3	13.114	1	-0.746	3
703		2	max	0.279	2	-0.239	2	-131.1	4	-0.002	4	98.73	5	-0.018	2
704			min	-0.056	3	-7.463	3	-1316.332	3	-0.009	3	9.837	1	-0.56	3
705		3	max	0.279	2	-0.239	2	-131.144	4	-0.002	4	65.821	5	-0.012	2

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
706			min	-0.056	3	-7.463	3	-1316.375	3	-0.009	3	6.559	1	-0.373	3
707		4	max	0.279	2	-0.239	2	-131.187	4	-0.002	4	32.911	5	-0.006	2
708			min	-0.056	3	-7.463	3	-1316.418	3	-0.009	3	3.28	1	-0.187	3
709		5	max	0.279	2	-0.239	2	-131.23	4	-0.002	4	0	7	0	7
710			min	-0.056	3	-7.463	3	-1316.461	3	-0.009	3	0	1	0	1
711	M72	1	max	0.018	2	-0.042	2	-127.25	4	0.002	4	71.538	5	-0.004	2
712			min	-0.02	1	-1.177	3	-715.298	3	-0.025	2	12.734	1	-0.118	3
713		2	max	0.018	2	-0.042	2	-127.293	4	0.002	4	53.655	5	-0.003	2
714			min	-0.02	1	-1.177	3	-715.341	3	-0.025	2	9.552	1	-0.088	3
715		3	max	0.018	2	-0.042	2	-127.336	4	0.002	4	35.771	5	-0.002	2
716			min	-0.02	1	-1.177	3	-715.384	3	-0.025	2	6.369	1	-0.059	3
717		4	max	0.018	2	-0.042	2	-127.38	4	0.002	4	17.886	5	-0.001	2
718			min	-0.02	1	-1.177	3	-715.427	3	-0.025	2	3.185	1	-0.029	3
719		5	max	0.018	2	-0.042	2	-127.423	4	0.002	4	0	7	0	7
720			min	-0.02	1	-1.177	3	-715.47	3	-0.025	2	0	1	0	1
721	M73	1	max	-2.594	4	4.7	2	139.195	5	-0.548	4	80.528	5	-0.224	4
722			min	-8.375	3	0.218	1	58.826	1	-1.415	3	12.072	1	-1.716	3
723		2	max	-2.594	4	4.7	2	138.376	5	-0.548	4	146.451	5	-0.328	4
724			min	-8.375	3	0.218	1	58.006	1	-1.415	3	39.819	1	-2.979	3
725		3	max	-2.594	4	4.7	2	137.557	5	-0.548	4	211.985	5	-0.432	4
726			min	-8.375	3	0.218	1	57.187	1	-1.415	3	67.178	1	-4.994	2
727		4	max	-2.594	4	4.7	2	136.737	5	-0.548	4	277.13	5	-0.535	4
728			min	-8.375	3	0.218	1	56.367	1	-1.415	3	94.147	1	-7.226	2
729		5	max	-2.594	4	4.7	2	135.918	5	-0.548	4	341.885	5	-0.639	4
730			min	-8.375	3	0.218	1	55.548	1	-1.415	3	120.727	1	-9.459	2

Envelope Member End Reactions

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1	M1	I	max	1588.574	5	0.067	5	0.824	5	0	7	0	7	0	7
2			min	290.421	1	0.024	1	0.01	1	0	1	0	1	0	1
3		J	max	1581.067	5	0.067	5	0.824	5	0	7	5.495	5	-0.157	4
4			min	282.913	1	0.024	1	0.01	1	0	1	0.068	1	-0.444	3
5	M2	I	max	977.53	5	0.493	5	0.614	5	0	7	0	7	0	7
6			min	229.302	1	0.066	1	0.041	1	0	1	0	1	0	1
7		J	max	970.022	5	0.493	5	0.614	5	0	7	4.095	5	-0.442	4
8			min	221.794	1	0.066	1	0.041	1	0	1	0.275	1	-3.287	3
9	M3	I	max	2712.359	5	0.142	5	0.001	5	0	7	0	7	0	7
10			min	304.441	1	0.042	1	0	1	0	1	0	1	0	1
11		J	max	2704.851	5	0.142	5	0.001	5	0	7	0.005	5	-0.277	4
12			min	296.934	1	0.042	1	0	1	0	1	0	1	-0.948	3
13	M4	I	max	1796.52	5	0.828	5	-0.001	4	0	7	0	7	0	7
14			min	283.931	1	0.06	1	-0.014	3	0	1	0	1	0	1
15		J	max	1789.012	5	0.828	5	-0.001	4	0	7	-0.008	4	-0.399	4
16			min	276.424	1	0.06	1	-0.014	3	0	1	-0.091	3	-5.523	3
17	M5	I	max	0.018	4	0	7	778.783	5	0	4	0	7	0	7
18			min	-0.09	2	0	1	131.537	1	0	2	0	1	0	1
19		J	max	0.018	4	0	7	-131.511	4	0	4	0	7	0	7
20			min	-0.09	2	0	1	-778.496	3	0	2	0	1	0	1
21	M6	I	max	0.304	5	0	7	778.621	5	0	4	0	7	0	7
22			min	0.004	2	0	1	131.522	1	-0.001	3	0	1	0	1
23		J	max	0.304	5	0	7	-131.528	4	0	4	0	7	0	7
24			min	0.004	2	0	1	-778.681	3	-0.001	3	0	1	0	1
25	M7	I	max	0.352	5	0	7	768.016	5	0.019	2	0	7	0	7
26			min	-0.01	1	0	1	130.558	1	-0.002	1	0	1	0	1
27		J	max	0.352	5	0	7	-130.558	4	0.019	2	0	7	0	7

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
28			min	-0.01	1	0	1	-768.016	3	-0.002	1	0	1	0	1
29	M8	I	max	5.668	5	0.385	2	191.928	5	-0.384	4	0	7	0	7
30			min	1.868	1	-1.601	3	83.449	1	-1.213	3	0	1	0	1
31		J	max	5.668	5	0.385	2	111.753	5	-0.384	4	455.521	5	4.804	5
32			min	1.868	1	-1.601	3	3.274	1	-1.213	3	130.085	1	-1.154	2
33	M9	I	max	800.741	5	-0.078	4	0.462	5	0	7	0	7	0	7
34			min	151.152	1	-0.504	3	0.16	1	0	1	0	1	0	1
35		J	max	793.234	5	-0.078	4	0.462	5	0	7	3.082	5	3.361	5
36			min	143.644	1	-0.504	3	0.16	1	0	1	1.064	1	0.517	1
37	M10	I	max	1426.489	5	-0.02	4	0.105	2	0	7	0	7	0	7
38			min	221.055	1	-0.791	3	-0.109	1	0	1	0	1	0	1
39		J	max	1418.982	5	-0.02	4	0.105	2	0	7	0.703	2	5.275	5
40			min	213.547	1	-0.791	3	-0.109	1	0	1	-0.725	1	0.134	1
41	M11	I	max	-0.053	4	0	7	778.783	5	0.011	4	0	7	0	7
42			min	-0.627	3	0	1	131.537	1	-0.039	2	0	1	0	1
43		J	max	-0.053	4	0	7	-131.511	4	0.011	4	0	7	0	7
44			min	-0.627	3	0	1	-778.496	3	-0.039	2	0	1	0	1
45	M12	I	max	-2.711	4	11.956	5	-57.203	4	1.756	5	432.657	5	23.912	5
46			min	-8.43	3	0.897	1	-157.756	3	0.577	1	128.191	1	1.795	1
47		J	max	-2.711	4	11.956	5	-70.613	4	1.756	5	0	7	0	7
48			min	-8.43	3	0.897	1	-270.77	3	0.577	1	0	1	0	1
49	M13	I	max	1584.13	5	-0.024	4	0.822	5	0	7	0	7	0	7
50			min	289.855	1	-0.07	3	0.012	1	0	1	0	1	0	1
51		J	max	1576.622	5	-0.024	4	0.822	5	0	7	5.484	5	0.47	5
52			min	282.347	1	-0.07	3	0.012	1	0	1	0.081	1	0.161	1
53	M14	I	max	1574.273	5	-0.022	4	0.84	5	0	7	0	7	0	7
54			min	289.145	1	-0.055	3	0.012	1	0	1	0	1	0	1
55		J	max	1566.765	5	-0.022	4	0.84	5	0	7	5.601	5	0.369	5
56			min	281.637	1	-0.055	3	0.012	1	0	1	0.083	1	0.15	1
57	M15	I	max	2705.191	5	-0.041	4	0.002	2	0	7	0	7	0	7
58			min	304.615	1	-0.147	3	-0.001	1	0	1	0	1	0	1
59		J	max	2697.683	5	-0.041	4	0.002	2	0	7	0.011	2	0.982	5
60			min	297.108	1	-0.147	3	-0.001	1	0	1	-0.008	1	0.276	1
61	M16	I	max	2721.762	5	-0.043	4	0.003	5	0	7	0	7	0	7
62			min	306.428	1	-0.148	3	0	1	0	1	0	1	0	1
63		J	max	2714.255	5	-0.043	4	0.003	5	0	7	0.017	5	0.99	5
64			min	298.92	1	-0.148	3	0	1	0	1	0.002	1	0.288	1
65	M17	I	max	1591.82	5	0.039	5	-0.01	4	0	7	0	7	0	7
66			min	290.764	1	0.013	1	-0.823	3	0	1	0	1	0	1
67		J	max	1584.312	5	0.039	5	-0.01	4	0	7	-0.067	4	-0.086	4
68			min	283.256	1	0.013	1	-0.823	3	0	1	-5.49	3	-0.261	3
69	M18	I	max	921.887	5	0.519	5	-0.042	4	0	7	0	7	0	7
70			min	224.37	1	0.061	1	-0.628	3	0	1	0	1	0	1
71		J	max	914.379	5	0.519	5	-0.042	4	0	7	-0.283	4	-0.406	4
72			min	216.863	1	0.061	1	-0.628	3	0	1	-4.186	3	-3.46	3
73	M19	I	max	0.131	2	0.04	5	30.947	5	-0.002	4	0	7	0	7
74			min	0.003	1	0.002	2	6.94	1	-0.008	3	0	1	0	1
75		J	max	0.131	2	0.04	5	24.007	2	-0.002	4	130.933	5	-0.012	2
76			min	0.003	1	0.002	2	-1.513	1	-0.008	3	13.296	1	-0.195	3
77	M20	I	max	0.009	4	0	7	766.869	5	0	5	0	7	0	7
78			min	-0.104	2	0	1	130.454	1	0	1	0	1	0	1
79		J	max	0.009	4	0	7	-130.443	4	0	5	0	7	0	7
80			min	-0.104	2	0	1	-766.745	3	0	1	0	1	0	1
81	M21	I	max	0.304	5	0	7	766.869	5	0.001	5	0	7	0	7
82			min	0	2	0	1	130.454	1	0	1	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
83		J	max	0.304	5	0	7	-130.443	4	0.001	5	0	7	0	7
84			min	0	2	0	1	-766.745	3	0	1	0	1	0	1
85	M22	I	max	0.395	5	0	7	758.994	5	0.002	4	0	7	0	7
86			min	0.002	1	0	1	129.738	1	-0.018	2	0	1	0	1
87		J	max	0.395	5	0	7	-130.141	4	0.002	4	0	7	0	7
88			min	0.002	1	0	1	-763.429	3	-0.018	2	0	1	0	1
89	M23	I	max	0.172	2	0.074	5	30.935	5	0.008	5	0	7	0	7
90			min	-0.003	1	0.003	2	6.89	1	0.002	1	0	1	0	1
91		J	max	0.172	2	0.074	5	24.045	2	0.008	5	130.873	5	-0.017	2
92			min	-0.003	1	0.003	2	-1.563	1	0.002	1	13.052	1	-0.362	3
93	M24	I	max	0.279	2	0.152	5	31.217	5	-0.002	4	0	7	0	7
94			min	-0.056	3	0.005	2	6.968	1	-0.009	3	0	1	0	1
95		J	max	0.279	2	0.152	5	24.248	2	-0.002	4	132.253	5	-0.024	2
96			min	-0.056	3	0.005	2	-1.484	1	-0.009	3	13.435	1	-0.746	3
97	M25	I	max	864.34	5	-0.043	4	0.103	4	0	7	0	7	0	7
98			min	213.469	1	-0.487	3	-0.512	2	0	1	0	1	0	1
99		J	max	856.832	5	-0.043	4	0.103	4	0	7	0.686	4	3.246	5
100			min	205.961	1	-0.487	3	-0.512	2	0	1	-3.413	2	0.289	1
101	M26	I	max	0.018	2	0.024	5	80.062	5	0.002	4	0	7	0	7
102			min	-0.02	1	0.001	2	12.038	2	-0.025	2	0	1	0	1
103		J	max	0.018	2	0.024	5	12.038	2	0.002	4	71.469	5	-0.004	2
104			min	-0.02	1	0.001	2	-62.929	1	-0.025	2	12.481	1	-0.118	3
105	M27	I	max	-0.054	4	0	7	766.869	5	0.031	5	0	7	0	7
106			min	-0.645	3	0	1	130.454	1	0.009	1	0	1	0	1
107		J	max	-0.054	4	0	7	-130.443	4	0.031	5	0	7	0	7
108			min	-0.645	3	0	1	-766.745	3	0.009	1	0	1	0	1
109	M28	I	max	-2.594	4	17.16	5	812.546	5	-0.548	4	0	7	0	7
110			min	-8.375	3	2.24	1	124.117	1	-1.415	3	0	1	0	1
111		J	max	-2.594	4	17.16	5	809.342	5	-0.548	4	81.147	5	-0.224	4
112			min	-8.375	3	2.24	1	123.668	1	-1.415	3	12.394	1	-1.716	3
113	M29	I	max	1587.119	5	-0.013	4	-0.009	4	0	7	0	7	0	7
114			min	290.486	1	-0.043	3	-0.821	3	0	1	0	1	0	1
115		J	max	1579.611	5	-0.013	4	-0.009	4	0	7	-0.061	4	0.288	5
116			min	282.979	1	-0.043	3	-0.821	3	0	1	-5.476	3	0.088	1
117	M30	I	max	1584.509	5	-0.012	4	-0.012	4	0	7	0	7	0	7
118			min	290.351	1	-0.033	3	-0.837	3	0	1	0	1	0	1
119		J	max	1577.001	5	-0.012	4	-0.012	4	0	7	-0.081	4	0.219	5
120			min	282.843	1	-0.033	3	-0.837	3	0	1	-5.584	3	0.083	1
121	M31	I	max	-62.03	4	210.11	5	-0.224	4	-0.708	4	0	7	0	7
122			min	-268.664	3	42.725	1	-1.61	3	-2.807	3	0	1	0	1
123		J	max	-32.884	4	101.86	5	-0.224	4	-0.708	4	-0.292	4	-28.749	4
124			min	-177.868	3	7.975	1	-1.61	3	-2.807	3	-2.101	3	-155.879	3
125	M32	I	max	-56.789	4	131.76	5	1.754	5	2.357	5	0	7	0	7
126			min	-209.637	3	35.479	1	0.227	1	0.67	1	0	1	0	1
127		J	max	-33.808	4	104.36	5	1.754	5	2.357	5	2.289	5	-28.426	4
128			min	-186.655	3	8.079	1	0.227	1	0.67	1	0.296	1	-154.09	3
129	M33	I	max	-12.615	4	-16.212	4	-0.905	4	-0.022	4	4.331	5	-28.757	4
130			min	-28.137	3	-76.925	3	-6.65	3	-0.224	3	0.588	1	-155.975	3
131		J	max	10.23	4	-43.612	4	-0.905	4	-0.022	4	-0.591	4	10.188	4
132			min	-13.516	2	-104.325	3	-6.65	3	-0.224	3	-4.328	3	-50.175	2
133	M34	I	max	-13.598	4	-16.03	4	6.794	5	-0.016	4	-0.59	4	-28.418	4
134			min	-37.474	3	-73.569	3	0.908	1	-0.226	3	-4.423	3	-153.995	3
135		J	max	9.246	4	-43.43	4	6.794	5	-0.016	4	4.423	5	10.29	4
136			min	-22.346	2	-100.969	3	0.908	1	-0.226	3	0.592	1	-51.193	2
137	M35	I	max	133.572	5	-67.639	4	6.639	5	-0.019	4	-0.593	4	10.298	4

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
138			min	29.375	1	-279.378	3	0.911	1	-0.225	3	-4.321	3	-51.107	2
139		J	max	156.417	5	-95.039	4	6.639	5	-0.019	4	4.322	5	341.303	5
140			min	52.22	1	-306.778	3	0.911	1	-0.225	3	0.593	1	116.199	1
141	M36	I	max	142.914	5	-67.827	4	-0.914	4	-0.019	4	4.425	5	10.18	4
142			min	30.359	1	-282.983	3	-6.798	3	-0.225	3	0.595	1	-50.26	2
143		J	max	165.758	5	-95.227	4	-0.914	4	-0.019	4	-0.595	4	348.195	5
144			min	53.204	1	-310.383	3	-6.798	3	-0.225	3	-4.425	3	116.327	1
145	M37	I	max	304.504	5	-119.215	4	6.428	5	-0.02	4	-0.59	4	341.398	5
146			min	72.347	1	-484.897	3	0.906	1	-0.226	3	-4.187	3	116.207	1
147		J	max	327.349	5	-146.615	4	6.428	5	-0.02	4	4.183	5	990.558	5
148			min	95.192	1	-512.297	3	0.906	1	-0.226	3	0.59	1	289.259	1
149	M38	I	max	314.078	5	-119.408	4	-0.916	4	-0.019	4	4.548	5	348.1	5
150			min	73.335	1	-488.717	3	-6.983	3	-0.215	3	0.596	1	116.318	1
151		J	max	336.923	5	-146.808	4	-0.916	4	-0.019	4	-0.596	4	1002.235	5
152			min	96.18	1	-516.117	3	-6.983	3	-0.215	3	-4.543	3	289.622	1
153	M39	I	max	-133.78	4	665.267	5	6.082	5	-0.157	4	-0.602	4	993.06	5
154			min	-557.573	3	160.846	1	0.83	1	-1.728	3	-4.644	3	290.186	1
155		J	max	-85.58	4	299.504	5	6.082	5	-0.157	4	3.255	5	167.965	5
156			min	-254.447	3	102.686	1	0.83	1	-1.728	3	0.476	1	65.471	2
157	M40	I	max	-113.47	4	409.848	5	-0.418	4	1.325	5	1.323	5	1005.123	5
158			min	-333.429	3	137.495	1	-0.986	3	0.121	1	0.333	1	290.579	1
159		J	max	-90.762	4	382.448	5	-0.418	4	1.325	5	0.131	2	490.614	5
160			min	-310.721	3	110.095	1	-0.986	3	0.121	1	-0.209	1	129.797	1
161	M41	I	max	-78.428	4	290.058	5	6.082	5	1.495	5	-0.477	4	168.014	5
162			min	-246.356	3	93.659	1	0.829	1	0.136	1	-3.268	3	65.515	2
163		J	max	-55.583	4	262.658	5	6.082	5	1.495	5	4.65	5	-3.101	4
164			min	-223.512	3	66.259	1	0.829	1	0.136	1	0.603	1	-191.797	3
165	M42	I	max	-83.899	4	372.657	5	-0.417	4	-0.141	4	0.209	4	490.565	5
166			min	-306.183	3	101.037	1	-0.986	3	-1.551	3	-0.136	2	129.793	1
167		J	max	-61.054	4	345.257	5	-0.417	4	-0.141	4	-0.334	4	23.212	5
168			min	-283.338	3	73.637	1	-0.986	3	-1.551	3	-1.332	3	4.496	2
169	M43	I	max	-35.32	4	84.956	5	10.903	5	0.879	5	-0.793	4	-3.103	4
170			min	-73.652	3	42.121	1	1.269	1	0.081	1	-6.743	3	-191.815	3
171		J	max	-12.475	4	57.556	5	10.903	5	0.879	5	7.452	5	-40.107	4
172			min	-50.808	3	14.721	1	1.269	1	0.081	1	0.859	1	-284.589	3
173	M44	I	max	-41.06	4	167.448	5	-0.857	4	-0.064	4	3.421	5	23.23	5
174			min	-136.79	3	49.488	1	-5.807	3	-0.695	3	0.525	1	4.512	2
175		J	max	-18.215	4	140.048	5	-0.857	4	-0.064	4	-0.59	4	-30.511	4
176			min	-113.945	3	22.088	1	-5.807	3	-0.695	3	-4.139	3	-176.946	3
177	M45	I	max	170.696	5	-17.108	4	5.62	5	0	7	-0.671	4	-40.112	4
178			min	14.263	1	-204.927	3	0.515	1	0	1	-7.317	3	-284.647	3
179		J	max	193.54	5	-44.508	4	5.62	5	0	7	0	7	0	7
180			min	37.107	1	-232.327	3	0.515	1	0	1	0	1	0	1
181	M46	I	max	101.841	5	-9.731	4	0.618	5	0	7	0.119	4	-30.506	4
182			min	8.113	1	-122.161	3	-0.092	1	0	1	-0.804	3	-176.888	3
183		J	max	124.686	5	-37.131	4	0.618	5	0	7	0	7	0	7
184			min	30.958	1	-149.561	3	-0.092	1	0	1	0	1	0	1
185	M47	I	max	5.041	5	-0.001	4	-31.52	4	0.096	5	6.283	5	-0.239	4
186			min	0.681	1	-0.054	3	-232.421	3	0.008	1	1.094	1	-3.492	3
187		J	max	5.041	5	-0.001	4	233.406	5	0.096	5	6.102	5	-0.235	4
188			min	0.681	1	-0.054	3	31.616	1	0.008	1	1.09	1	-3.276	3
189	M48	I	max	0.006	4	0.002	5	-31.433	4	0.096	5	5.598	5	-0.908	4
190			min	-0.013	2	0	1	-231.432	3	0.008	1	0.762	1	-6.717	3
191		J	max	0.006	4	0.002	5	231.435	5	0.096	5	5.605	5	-0.909	4
192			min	-0.013	2	0	1	31.433	1	0.008	1	0.761	1	-6.723	3

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
193	M49	I	max	-0.002	4	0.088	5	-31.432	4	0.095	5	5.449	5	-0.908	4
194			min	-0.013	3	0.002	1	-231.357	3	0.008	1	0.758	1	-6.534	3
195		J	max	-0.002	4	0.088	5	231.509	5	0.095	5	5.753	5	-0.915	4
196			min	-0.013	3	0.002	1	31.435	1	0.008	1	0.763	1	-6.885	3
197	M50	I	max	-6.049	4	-0.1	4	-31.392	4	0.092	5	5.552	5	-0.93	4
198			min	-21.899	3	-1.111	3	-230.995	3	0.008	1	0.753	1	-6.916	3
199		J	max	-6.049	4	-0.1	4	231.331	5	0.092	5	6.225	5	-0.53	4
200			min	-21.899	3	-1.111	3	31.426	1	0.008	1	0.82	1	-2.471	3
201	M51	I	max	0.001	2	-0.108	4	-0.834	2	0.049	5	1.691	5	-0.92	4
202			min	-0.001	1	-1.327	3	-12.423	3	0.004	1	0.384	1	-7.077	3
203		J	max	0.001	2	-0.108	4	11.354	4	0.049	5	0.066	4	-0.489	4
204			min	-0.001	1	-1.327	3	-0.834	2	0.004	1	-2.269	3	-1.769	3
205	M52	I	max	4.821	5	-0.107	4	-31.515	4	-0.002	4	7.769	5	-1.037	4
206			min	0.44	1	-1.313	3	-232.45	3	-0.018	3	0.936	1	-8.356	3
207		J	max	4.821	5	-0.107	4	230.416	5	-0.002	4	3.701	5	-0.61	4
208			min	0.44	1	-1.313	3	31.352	1	-0.018	3	0.609	1	-3.102	3
209	M53	I	max	-0.76	4	-0.155	4	-41.568	4	-0.005	4	10.133	5	-1.123	4
210			min	-5.987	3	-2.166	3	-343.299	3	-0.058	3	1.041	1	-10.781	3
211		J	max	-0.76	4	-0.155	4	339.568	5	-0.005	4	2.669	5	-0.504	4
212			min	-5.987	3	-2.166	3	41.299	1	-0.058	3	0.504	1	-2.117	3
213	M54	I	max	5.536	5	5.212	5	0.834	4	0.982	5	315.034	5	15.636	5
214			min	1.669	1	0.61	1	-65.081	2	0.365	1	117.761	1	1.829	1
215		J	max	5.536	5	5.212	5	-65.081	2	0.982	5	0	7	0	7
216			min	1.669	1	0.61	1	-145.099	3	0.365	1	0	1	0	1
217	M55	I	max	1438.18	5	0	7	0	7	0	7	0	7	0	7
218			min	411.056	1	0	1	0	1	0	1	0	1	0	1
219		J	max	1434.432	5	0	7	0	7	0	7	0	7	0	7
220			min	407.308	1	0	1	0	1	0	1	0	1	0	1
221	M56	I	max	1765.888	5	0	7	0	7	0	7	0	7	0	7
222			min	441.118	1	0	1	0	1	0	1	0	1	0	1
223		J	max	1762.139	5	0	7	0	7	0	7	0	7	0	7
224			min	437.37	1	0	1	0	1	0	1	0	1	0	1
225	M57	I	max	-0.002	4	0	7	678.668	5	0	2	0	7	0	7
226			min	-0.142	3	0	1	65.618	1	0	1	0	1	0	1
227		J	max	-0.002	4	0	7	-66.084	4	0	2	0	7	0	7
228			min	-0.142	3	0	1	-683.803	3	0	1	0	1	0	1
229	M58	I	max	0.081	5	0	7	678.657	5	0	4	0	7	0	7
230			min	-0.221	2	0	1	65.617	1	0	3	0	1	0	1
231		J	max	0.081	5	0	7	-66.083	4	0	4	0	7	0	7
232			min	-0.221	2	0	1	-683.791	3	0	3	0	1	0	1
233	M59	I	max	1.362	5	0	7	692.741	5	0.001	5	0	7	0	7
234			min	-0.525	2	0	1	66.897	1	0	1	0	1	0	1
235		J	max	1.362	5	0	7	-66.737	4	0.001	5	0	7	0	7
236			min	-0.525	2	0	1	-690.977	3	0	1	0	1	0	1
237	M60	I	max	0.213	5	0	7	678.489	5	0.008	2	0	7	0	7
238			min	0.017	1	0	1	65.601	1	-0.008	1	0	1	0	1
239		J	max	0.213	5	0	7	-66.101	4	0.008	2	0	7	0	7
240			min	0.017	1	0	1	-683.982	3	-0.008	1	0	1	0	1
241	M61	I	max	-0.166	2	0	7	-64.54	4	0.001	4	0	7	0	7
242			min	-3.187	3	0	1	-666.819	3	-0.001	2	0	1	0	1
243		J	max	-0.166	2	0	7	664.317	5	0.001	4	0	7	0	7
244			min	-3.187	3	0	1	64.313	1	-0.001	2	0	1	0	1
245	M62	I	max	-0.341	2	0	7	-64.545	4	-0.001	4	0	7	0	7
246			min	-6.886	3	0	1	-666.873	3	-0.004	3	0	1	0	1
247		J	max	-0.341	2	0	7	664.263	5	-0.001	4	0	7	0	7

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
248			min	-6.886	3	0	1	64.308	1	-0.004	3	0	1	0	1
249	M63	I	max	-0.585	2	0	7	-64.843	4	-0.294	2	0	7	0	7
250			min	-14.501	3	0	1	-670.147	3	-0.619	3	0	1	0	1
251		J	max	-0.585	2	0	7	672.18	5	-0.294	2	0	7	0	7
252			min	-14.501	3	0	1	65.028	1	-0.619	3	0	1	0	1
253	M64	I	max	-0.042	2	0	7	-64.532	4	0.252	4	0	7	0	7
254			min	-1.201	3	0	1	-666.728	3	-0.183	2	0	1	0	1
255		J	max	-0.042	2	0	7	664.407	5	0.252	4	0	7	0	7
256			min	-1.201	3	0	1	64.321	1	-0.183	2	0	1	0	1
257	M65	I	max	0.133	2	0	7	4.313	7	0.006	5	0	7	0	7
258			min	-0.004	1	0	1	0	2	0.001	1	0	1	0	1
259		J	max	0.133	2	0	7	0	2	0.006	5	0	7	0	7
260			min	-0.004	1	0	1	-4.313	1	0.001	1	0	1	0	1
261	M66	I	max	0.177	2	0	7	4.313	7	-0.001	4	0	7	0	7
262			min	-0.001	1	0	1	0	2	-0.006	3	0	1	0	1
263		J	max	0.177	2	0	7	0	2	-0.001	4	0	7	0	7
264			min	-0.001	1	0	1	-4.313	1	-0.006	3	0	1	0	1
265	M67	I	max	0.237	2	0	7	4.313	7	0.007	5	0	7	0	7
266			min	-0.061	3	0	1	0	2	0.002	1	0	1	0	1
267		J	max	0.237	2	0	7	0	2	0.007	5	0	7	0	7
268			min	-0.061	3	0	1	-4.313	1	0.002	1	0	1	0	1
269	M68	I	max	0.02	4	0	7	4.813	4	0.026	2	2.123	2	0	6
270			min	-0.018	2	0	1	-0.425	2	-0.004	1	-2.504	1	0	3
271		J	max	0.02	4	0	7	-0.425	2	0.026	2	0	7	0	7
272			min	-0.018	2	0	1	-4.236	3	-0.004	1	0	1	0	1
273	M69	I	max	0.131	2	-0.121	2	-130.358	4	-0.002	4	130.864	5	-0.012	2
274			min	0.003	1	-1.946	3	-1308.551	3	-0.008	3	13.044	1	-0.195	3
275		J	max	0.131	2	-0.121	2	-130.53	4	-0.002	4	0	7	0	7
276			min	0.003	1	-1.946	3	-1308.724	3	-0.008	3	0	1	0	1
277	M70	I	max	0.172	2	-0.171	2	-130.411	4	0.008	5	130.869	5	-0.017	2
278			min	-0.003	1	-3.624	3	-1308.6	3	0.002	1	13.05	1	-0.362	3
279		J	max	0.172	2	-0.171	2	-130.583	4	0.008	5	0	7	0	7
280			min	-0.003	1	-3.624	3	-1308.773	3	0.002	1	0	1	0	1
281	M71	I	max	0.279	2	-0.239	2	-131.057	4	-0.002	4	131.637	5	-0.024	2
282			min	-0.056	3	-7.463	3	-1316.289	3	-0.009	3	13.114	1	-0.746	3
283		J	max	0.279	2	-0.239	2	-131.23	4	-0.002	4	0	7	0	7
284			min	-0.056	3	-7.463	3	-1316.461	3	-0.009	3	0	1	0	1
285	M72	I	max	0.018	2	-0.042	2	-127.25	4	0.002	4	71.538	5	-0.004	2
286			min	-0.02	1	-1.177	3	-715.298	3	-0.025	2	12.734	1	-0.118	3
287		J	max	0.018	2	-0.042	2	-127.423	4	0.002	4	0	7	0	7
288			min	-0.02	1	-1.177	3	-715.47	3	-0.025	2	0	1	0	1
289	M73	I	max	-2.594	4	4.7	2	139.195	5	-0.548	4	80.528	5	-0.224	4
290			min	-8.375	3	0.218	1	58.826	1	-1.415	3	12.072	1	-1.716	3
291		J	max	-2.594	4	4.7	2	135.918	5	-0.548	4	341.885	5	-0.639	4
292			min	-8.375	3	0.218	1	55.548	1	-1.415	3	120.727	1	-9.459	2

Envelope Member Section Stresses

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1	M1	1	max	1.694	5	0	5	0.002	5	0	7	0	7	0	7	0	7
2			min	0.31	1	0	1	0	1	0	1	0	1	0	1	0	1
3		2	max	1.692	5	0	5	0.002	5	0.002	5	-0.001	4	0.03	5	0	4
4			min	0.308	1	0	1	0	1	0.001	1	-0.002	3	0	1	-0.03	3
5		3	max	1.69	5	0	5	0.002	5	0.005	5	-0.002	4	0.06	5	-0.001	4
6			min	0.306	1	0	1	0	1	0.002	1	-0.005	3	0.001	1	-0.06	3
7		4	max	1.688	5	0	5	0.002	5	0.007	5	-0.003	4	0.09	5	-0.001	4

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
8			min	0.304	1	0	1	0	1	0.003	1	-0.007	3	0.001	1	-0.09	3
9		5	max	1.686	5	0	5	0.002	5	0.01	5	-0.003	4	0.119	5	-0.001	4
10			min	0.302	1	0	1	0	1	0.003	1	-0.01	3	0.001	1	-0.119	3
11	M2	1	max	1.042	5	0.001	5	0.001	5	0	7	0	7	0	7	0	7
12			min	0.244	1	0	1	0	1	0	1	0	1	0	1	0	1
13		2	max	1.04	5	0.001	5	0.001	5	0.018	5	-0.002	4	0.022	5	-0.001	4
14			min	0.242	1	0	1	0	1	0.002	1	-0.018	3	0.001	1	-0.022	3
15		3	max	1.038	5	0.001	5	0.001	5	0.036	5	-0.005	4	0.045	5	-0.003	4
16			min	0.24	1	0	1	0	1	0.005	1	-0.036	3	0.003	1	-0.045	3
17		4	max	1.036	5	0.001	5	0.001	5	0.054	5	-0.007	4	0.067	5	-0.004	4
18			min	0.238	1	0	1	0	1	0.007	1	-0.054	3	0.004	1	-0.067	3
19		5	max	1.034	5	0.001	5	0.001	5	0.071	5	-0.01	4	0.089	5	-0.006	4
20			min	0.236	1	0	1	0	1	0.01	1	-0.071	3	0.006	1	-0.089	3
21	M3	1	max	2.892	5	0	5	0	5	0	7	0	7	0	7	0	7
22			min	0.325	1	0	1	0	1	0	1	0	1	0	1	0	1
23		2	max	2.89	5	0	5	0	5	0.005	5	-0.002	4	0	5	0	4
24			min	0.323	1	0	1	0	1	0.002	1	-0.005	3	0	1	0	3
25		3	max	2.888	5	0	5	0	5	0.01	5	-0.003	4	0	5	0	4
26			min	0.321	1	0	1	0	1	0.003	1	-0.01	3	0	1	0	3
27		4	max	2.886	5	0	5	0	5	0.015	5	-0.005	4	0	5	0	4
28			min	0.319	1	0	1	0	1	0.005	1	-0.015	3	0	1	0	3
29		5	max	2.884	5	0	5	0	5	0.021	5	-0.006	4	0	5	0	4
30			min	0.317	1	0	1	0	1	0.006	1	-0.021	3	0	1	0	3
31	M4	1	max	1.915	5	0.002	5	0	4	0	7	0	7	0	7	0	7
32			min	0.303	1	0	1	0	3	0	1	0	1	0	1	0	1
33		2	max	1.913	5	0.002	5	0	4	0.03	5	-0.002	4	0	4	0	5
34			min	0.301	1	0	1	0	3	0.002	1	-0.03	3	0	3	0	1
35		3	max	1.911	5	0.002	5	0	4	0.06	5	-0.004	4	0	4	0.001	5
36			min	0.299	1	0	1	0	3	0.004	1	-0.06	3	-0.001	3	0	1
37		4	max	1.909	5	0.002	5	0	4	0.09	5	-0.007	4	0	4	0.001	5
38			min	0.297	1	0	1	0	3	0.007	1	-0.09	3	-0.001	3	0	1
39		5	max	1.907	5	0.002	5	0	4	0.12	5	-0.009	4	0	4	0.002	5
40			min	0.295	1	0	1	0	3	0.009	1	-0.12	3	-0.002	3	0	1
41	M5	1	max	0	4	0	7	0.935	5	0	7	0	7	0	7	0	7
42			min	0	2	0	1	0.158	1	0	1	0	1	0	1	0	1
43		2	max	0	4	0	7	0.467	5	0	7	0	7	13.121	5	-2.216	4
44			min	0	2	0	1	0.079	1	0	1	0	1	2.216	1	-13.121	3
45		3	max	0	4	0	7	0	4	0	7	0	7	17.493	5	-2.955	4
46			min	0	2	0	1	0	3	0	1	0	1	2.955	1	-17.493	3
47		4	max	0	4	0	7	-0.079	4	0	7	0	7	13.116	5	-2.216	4
48			min	0	2	0	1	-0.467	3	0	1	0	1	2.216	1	-13.116	3
49		5	max	0	4	0	7	-0.158	4	0	7	0	7	0	7	0	7
50			min	0	2	0	1	-0.934	3	0	1	0	1	0	1	0	1
51	M6	1	max	0	5	0	7	0.934	5	0	7	0	7	0	7	0	7
52			min	0	2	0	1	0.158	1	0	1	0	1	0	1	0	1
53		2	max	0	5	0	7	0.468	5	0	7	0	7	13.128	5	-2.217	4
54			min	0	2	0	1	0.079	1	0	1	0	1	2.217	1	-13.128	3
55		3	max	0	5	0	7	0	7	0	7	0	7	17.504	5	-2.956	4
56			min	0	2	0	1	0	1	0	1	0	1	2.956	1	-17.504	3
57		4	max	0	5	0	7	-0.079	4	0	7	0	7	13.128	5	-2.217	4
58			min	0	2	0	1	-0.468	3	0	1	0	1	2.217	1	-13.128	3
59		5	max	0	5	0	7	-0.158	4	0	7	0	7	0	7	0	7
60			min	0	2	0	1	-0.934	3	0	1	0	1	0	1	0	1
61	M7	1	max	0	5	0	7	0.922	5	0	7	0	7	0	7	0	7
62			min	0	1	0	1	0.157	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
63		2	max	0	5	0	7	0.461	5	0	7	0	7	12.949	5	-2.2	4
64			min	0	1	0	1	0.078	1	0	1	0	1	2.2	1	-12.949	3
65		3	max	0	5	0	7	0	7	0	7	0	7	17.265	5	-2.934	4
66			min	0	1	0	1	0	1	0	1	0	1	2.934	1	-17.265	3
67		4	max	0	5	0	7	-0.078	4	0	7	0	7	12.949	5	-2.2	4
68			min	0	1	0	1	-0.461	3	0	1	0	1	2.2	1	-12.949	3
69		5	max	0	5	0	7	-0.157	4	0	7	0	7	0	7	0	7
70			min	0	1	0	1	-0.922	3	0	1	0	1	0	1	0	1
71	M8	1	max	0.004	5	0.001	2	0.23	5	0	7	0	7	0	7	0	7
72			min	0.001	1	-0.004	3	0.1	1	0	1	0	1	0	1	0	1
73		2	max	0.004	5	0.001	2	0.206	5	0.004	2	0.054	5	2.452	5	-0.99	4
74			min	0.001	1	-0.004	3	0.076	1	-0.015	3	-0.013	2	0.99	1	-2.452	3
75		3	max	0.004	5	0.001	2	0.182	5	0.007	2	0.107	5	4.633	5	-1.709	4
76			min	0.001	1	-0.004	3	0.052	1	-0.029	3	-0.026	2	1.709	1	-4.633	3
77		4	max	0.004	5	0.001	2	0.158	5	0.011	2	0.161	5	6.544	5	-2.158	4
78			min	0.001	1	-0.004	3	0.028	1	-0.044	3	-0.039	2	2.158	1	-6.544	3
79		5	max	0.004	5	0.001	2	0.134	5	0.014	2	0.215	5	8.185	5	-2.338	4
80			min	0.001	1	-0.004	3	0.004	1	-0.059	3	-0.052	2	2.338	1	-8.185	3
81	M9	1	max	0.854	5	0	4	0.001	5	0	7	0	7	0	7	0	7
82			min	0.161	1	-0.001	3	0	1	0	1	0	1	0	1	0	1
83		2	max	0.852	5	0	4	0.001	5	-0.003	4	0.018	5	0.017	5	-0.006	4
84			min	0.159	1	-0.001	3	0	1	-0.018	3	0.003	1	0.006	1	-0.017	3
85		3	max	0.85	5	0	4	0.001	5	-0.006	4	0.037	5	0.034	5	-0.012	4
86			min	0.157	1	-0.001	3	0	1	-0.037	3	0.006	1	0.012	1	-0.034	3
87		4	max	0.848	5	0	4	0.001	5	-0.008	4	0.055	5	0.05	5	-0.017	4
88			min	0.155	1	-0.001	3	0	1	-0.055	3	0.008	1	0.017	1	-0.05	3
89		5	max	0.846	5	0	4	0.001	5	-0.011	4	0.073	5	0.067	5	-0.023	4
90			min	0.153	1	-0.001	3	0	1	-0.073	3	0.011	1	0.023	1	-0.067	3
91	M10	1	max	1.521	5	0	4	0	2	0	7	0	7	0	7	0	7
92			min	0.236	1	-0.002	3	0	1	0	1	0	1	0	1	0	1
93		2	max	1.519	5	0	4	0	2	-0.001	4	0.029	5	0.004	2	0.004	4
94			min	0.234	1	-0.002	3	0	1	-0.029	3	0.001	1	-0.004	1	-0.004	2
95		3	max	1.517	5	0	4	0	2	-0.001	4	0.057	5	0.008	2	0.008	4
96			min	0.232	1	-0.002	3	0	1	-0.057	3	0.001	1	-0.008	1	-0.008	2
97		4	max	1.515	5	0	4	0	2	-0.002	4	0.086	5	0.011	2	0.012	4
98			min	0.23	1	-0.002	3	0	1	-0.086	3	0.002	1	-0.012	1	-0.011	2
99		5	max	1.513	5	0	4	0	2	-0.003	4	0.115	5	0.015	2	0.016	4
100			min	0.228	1	-0.002	3	0	1	-0.115	3	0.003	1	-0.016	1	-0.015	2
101	M11	1	max	0	4	0	7	0.935	5	0	7	0	7	0	7	0	7
102			min	0	3	0	1	0.158	1	0	1	0	1	0	1	0	1
103		2	max	0	4	0	7	0.467	5	0	7	0	7	13.121	5	-2.216	4
104			min	0	3	0	1	0.079	1	0	1	0	1	2.216	1	-13.121	3
105		3	max	0	4	0	7	0	4	0	7	0	7	17.493	5	-2.955	4
106			min	0	3	0	1	0	3	0	1	0	1	2.955	1	-17.493	3
107		4	max	0	4	0	7	-0.079	4	0	7	0	7	13.116	5	-2.216	4
108			min	0	3	0	1	-0.467	3	0	1	0	1	2.216	1	-13.116	3
109		5	max	0	4	0	7	-0.158	4	0	7	0	7	0	7	0	7
110			min	0	3	0	1	-0.934	3	0	1	0	1	0	1	0	1
111	M12	1	max	-0.002	4	0.029	5	-0.069	4	-0.022	4	1.07	5	7.775	5	-2.304	4
112			min	-0.006	3	0.002	1	-0.189	3	-0.292	3	0.08	1	2.304	1	-7.775	3
113		2	max	-0.002	4	0.029	5	-0.073	4	-0.016	4	0.803	5	6.191	5	-1.771	4
114			min	-0.006	3	0.002	1	-0.229	3	-0.219	3	0.06	1	1.771	1	-6.191	3
115		3	max	-0.002	4	0.029	5	-0.077	4	-0.011	4	0.535	5	4.363	5	-1.209	4
116			min	-0.006	3	0.002	1	-0.259	3	-0.146	3	0.04	1	1.209	1	-4.363	3
117		4	max	-0.002	4	0.029	5	-0.081	4	-0.005	4	0.268	5	2.305	5	-0.619	4

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
118			min	-0.006	3	0.002	1	-0.291	3	-0.073	3	0.02	1	0.619	1	-2.305	3
119		5	max	-0.002	4	0.029	5	-0.085	4	0	7	0	7	0	7	0	7
120			min	-0.006	3	0.002	1	-0.325	3	0	1	0	1	0	1	0	1
121	M13	1	max	1.689	5	0	4	0.002	5	0	7	0	7	0	7	0	7
122			min	0.309	1	0	3	0	1	0	1	0	1	0	1	0	1
123		2	max	1.687	5	0	4	0.002	5	-0.001	4	0.003	5	0.03	5	0	4
124			min	0.307	1	0	3	0	1	-0.003	3	0.001	1	0	1	-0.03	3
125		3	max	1.685	5	0	4	0.002	5	-0.002	4	0.005	5	0.06	5	-0.001	4
126			min	0.305	1	0	3	0	1	-0.005	3	0.002	1	0.001	1	-0.06	3
127		4	max	1.683	5	0	4	0.002	5	-0.003	4	0.008	5	0.089	5	-0.001	4
128			min	0.303	1	0	3	0	1	-0.008	3	0.003	1	0.001	1	-0.089	3
129		5	max	1.681	5	0	4	0.002	5	-0.003	4	0.01	5	0.119	5	-0.002	4
130			min	0.301	1	0	3	0	1	-0.01	3	0.003	1	0.002	1	-0.119	3
131	M14	1	max	1.678	5	0	4	0.002	5	0	7	0	7	0	7	0	7
132			min	0.308	1	0	3	0	1	0	1	0	1	0	1	0	1
133		2	max	1.676	5	0	4	0.002	5	-0.001	4	0.002	5	0.03	5	0	4
134			min	0.306	1	0	3	0	1	-0.002	3	0.001	1	0	1	-0.03	3
135		3	max	1.674	5	0	4	0.002	5	-0.002	4	0.004	5	0.061	5	-0.001	4
136			min	0.304	1	0	3	0	1	-0.004	3	0.002	1	0.001	1	-0.061	3
137		4	max	1.672	5	0	4	0.002	5	-0.002	4	0.006	5	0.091	5	-0.001	4
138			min	0.302	1	0	3	0	1	-0.006	3	0.002	1	0.001	1	-0.091	3
139		5	max	1.67	5	0	4	0.002	5	-0.003	4	0.008	5	0.122	5	-0.002	4
140			min	0.3	1	0	3	0	1	-0.008	3	0.003	1	0.002	1	-0.122	3
141	M15	1	max	2.884	5	0	4	0	2	0	7	0	7	0	7	0	7
142			min	0.325	1	0	3	0	1	0	1	0	1	0	1	0	1
143		2	max	2.882	5	0	4	0	2	-0.001	4	0.005	5	0	2	0	4
144			min	0.323	1	0	3	0	1	-0.005	3	0.001	1	0	1	0	2
145		3	max	2.88	5	0	4	0	2	-0.003	4	0.011	5	0	2	0	4
146			min	0.321	1	0	3	0	1	-0.011	3	0.003	1	0	1	0	2
147		4	max	2.878	5	0	4	0	2	-0.004	4	0.016	5	0	2	0	4
148			min	0.319	1	0	3	0	1	-0.016	3	0.004	1	0	1	0	2
149		5	max	2.876	5	0	4	0	2	-0.006	4	0.021	5	0	2	0	4
150			min	0.317	1	0	3	0	1	-0.021	3	0.006	1	0	1	0	2
151	M16	1	max	2.902	5	0	4	0	5	0	7	0	7	0	7	0	7
152			min	0.327	1	0	3	0	1	0	1	0	1	0	1	0	1
153		2	max	2.9	5	0	4	0	5	-0.002	4	0.005	5	0	5	0	4
154			min	0.325	1	0	3	0	1	-0.005	3	0.002	1	0	1	0	3
155		3	max	2.898	5	0	4	0	5	-0.003	4	0.011	5	0	5	0	4
156			min	0.323	1	0	3	0	1	-0.011	3	0.003	1	0	1	0	3
157		4	max	2.896	5	0	4	0	5	-0.005	4	0.016	5	0	5	0	4
158			min	0.321	1	0	3	0	1	-0.016	3	0.005	1	0	1	0	3
159		5	max	2.894	5	0	4	0	5	-0.006	4	0.022	5	0	5	0	4
160			min	0.319	1	0	3	0	1	-0.022	3	0.006	1	0	1	0	3
161	M17	1	max	1.697	5	0	5	0	4	0	7	0	7	0	7	0	7
162			min	0.31	1	0	1	-0.002	3	0	1	0	1	0	1	0	1
163		2	max	1.695	5	0	5	0	4	0.001	5	0	4	0	4	0.03	5
164			min	0.308	1	0	1	-0.002	3	0	1	-0.001	3	-0.03	3	0	1
165		3	max	1.693	5	0	5	0	4	0.003	5	-0.001	4	-0.001	4	0.06	5
166			min	0.306	1	0	1	-0.002	3	0.001	1	-0.003	3	-0.06	3	0.001	1
167		4	max	1.691	5	0	5	0	4	0.004	5	-0.001	4	-0.001	4	0.09	5
168			min	0.304	1	0	1	-0.002	3	0.001	1	-0.004	3	-0.09	3	0.001	1
169		5	max	1.689	5	0	5	0	4	0.006	5	-0.002	4	-0.001	4	0.119	5
170			min	0.302	1	0	1	-0.002	3	0.002	1	-0.006	3	-0.119	3	0.001	1
171	M18	1	max	0.983	5	0.001	5	0	4	0	7	0	7	0	7	0	7
172			min	0.239	1	0	1	-0.001	3	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
173		2	max	0.981	5	0.001	5	0	4	0.019	5	-0.002	4	-0.002	4	0.023	5
174			min	0.237	1	0	1	-0.001	3	0.002	1	-0.019	3	-0.023	3	0.002	1
175		3	max	0.979	5	0.001	5	0	4	0.038	5	-0.004	4	-0.003	4	0.046	5
176			min	0.235	1	0	1	-0.001	3	0.004	1	-0.038	3	-0.046	3	0.003	1
177		4	max	0.977	5	0.001	5	0	4	0.056	5	-0.007	4	-0.005	4	0.068	5
178			min	0.233	1	0	1	-0.001	3	0.007	1	-0.056	3	-0.068	3	0.005	1
179		5	max	0.975	5	0.001	5	0	4	0.075	5	-0.009	4	-0.006	4	0.091	5
180			min	0.231	1	0	1	-0.001	3	0.009	1	-0.075	3	-0.091	3	0.006	1
181	M19	1	max	0	2	0	5	0.037	5	0	7	0	7	0	7	0	7
182			min	0	1	0	2	0.008	1	0	1	0	1	0	1	0	1
183		2	max	0	2	0	5	0.035	5	0.001	5	0	2	0.658	5	-0.13	4
184			min	0	1	0	2	0.006	1	0	2	-0.002	3	0.13	1	-0.658	3
185		3	max	0	2	0	5	0.032	5	0.001	5	0	2	1.269	5	-0.212	4
186			min	0	1	0	2	0.003	1	0	2	-0.004	3	0.212	1	-1.269	3
187		4	max	0	2	0	5	0.03	5	0.002	5	0	2	1.834	5	-0.249	4
188			min	0	1	0	2	0.001	1	0	2	-0.007	3	0.249	1	-1.834	3
189		5	max	0	2	0	5	0.029	2	0.002	5	-0.001	2	2.353	5	-0.239	4
190			min	0	1	0	2	-0.002	1	0	2	-0.009	3	0.239	1	-2.353	3
191	M20	1	max	0	4	0	7	0.92	5	0	7	0	7	0	7	0	7
192			min	0	2	0	1	0.157	1	0	1	0	1	0	1	0	1
193		2	max	0	4	0	7	0.46	5	0	7	0	7	12.924	5	-2.198	4
194			min	0	2	0	1	0.078	1	0	1	0	1	2.198	1	-12.924	3
195		3	max	0	4	0	7	0	7	0	7	0	7	17.232	5	-2.931	4
196			min	0	2	0	1	0	3	0	1	0	1	2.931	1	-17.232	3
197		4	max	0	4	0	7	-0.078	4	0	7	0	7	12.924	5	-2.198	4
198			min	0	2	0	1	-0.46	3	0	1	0	1	2.198	1	-12.924	3
199		5	max	0	4	0	7	-0.157	4	0	7	0	7	0	7	0	7
200			min	0	2	0	1	-0.92	3	0	1	0	1	0	1	0	1
201	M21	1	max	0	5	0	7	0.92	5	0	7	0	7	0	7	0	7
202			min	0	2	0	1	0.157	1	0	1	0	1	0	1	0	1
203		2	max	0	5	0	7	0.46	5	0	7	0	7	12.924	5	-2.198	4
204			min	0	2	0	1	0.078	1	0	1	0	1	2.198	1	-12.924	3
205		3	max	0	5	0	7	0	7	0	7	0	7	17.232	5	-2.931	4
206			min	0	2	0	1	0	3	0	1	0	1	2.931	1	-17.232	3
207		4	max	0	5	0	7	-0.078	4	0	7	0	7	12.924	5	-2.198	4
208			min	0	2	0	1	-0.46	3	0	1	0	1	2.198	1	-12.924	3
209		5	max	0	5	0	7	-0.157	4	0	7	0	7	0	7	0	7
210			min	0	2	0	1	-0.92	3	0	1	0	1	0	1	0	1
211	M22	1	max	0	5	0	7	0.911	5	0	7	0	7	0	7	0	7
212			min	0	1	0	1	0.156	1	0	1	0	1	0	1	0	1
213		2	max	0	5	0	7	0.457	5	0	7	0	7	12.808	5	-2.188	4
214			min	0	1	0	1	0.078	1	0	1	0	1	2.188	1	-12.808	3
215		3	max	0	5	0	7	0.001	5	0	7	0	7	17.105	5	-2.919	4
216			min	0	1	0	1	0	1	0	1	0	1	2.919	1	-17.105	3
217		4	max	0	5	0	7	-0.078	4	0	7	0	7	12.846	5	-2.191	4
218			min	0	1	0	1	-0.457	3	0	1	0	1	2.191	1	-12.846	3
219		5	max	0	5	0	7	-0.156	4	0	7	0	7	0	7	0	7
220			min	0	1	0	1	-0.916	3	0	1	0	1	0	1	0	1
221	M23	1	max	0	2	0	5	0.037	5	0	7	0	7	0	7	0	7
222			min	0	1	0	2	0.008	1	0	1	0	1	0	1	0	1
223		2	max	0	2	0	5	0.035	5	0.001	5	0	2	0.658	5	-0.128	4
224			min	0	1	0	2	0.006	1	0	2	-0.004	3	0.128	1	-0.658	3
225		3	max	0	2	0	5	0.032	5	0.002	5	0	2	1.269	5	-0.21	4
226			min	0	1	0	2	0.003	1	0	2	-0.008	3	0.21	1	-1.269	3
227		4	max	0	2	0	5	0.03	5	0.003	5	-0.001	2	1.834	5	-0.246	4

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
228			min	0	1	0	2	0.001	1	0	2	-0.012	3	0.246	1	-1.834	3
229		5	max	0	2	0	5	0.029	2	0.004	5	-0.001	2	2.352	5	-0.235	4
230			min	0	1	0	2	-0.002	1	0	2	-0.016	3	0.235	1	-2.352	3
231	M24	1	max	0	2	0	5	0.037	5	0	7	0	7	0	7	0	7
232			min	0	3	0	2	0.008	1	0	1	0	1	0	1	0	1
233		2	max	0	2	0	5	0.035	5	0.002	5	0	2	0.664	5	-0.13	4
234			min	0	3	0	2	0.006	1	0	2	-0.008	3	0.13	1	-0.664	3
235		3	max	0	2	0	5	0.032	5	0.005	5	-0.001	2	1.281	5	-0.214	4
236			min	0	3	0	2	0.003	1	0	2	-0.017	3	0.214	1	-1.281	3
237		4	max	0	2	0	5	0.03	5	0.007	5	-0.001	2	1.852	5	-0.251	4
238			min	0	3	0	2	0.001	1	0	2	-0.025	3	0.251	1	-1.852	3
239		5	max	0	2	0	5	0.029	2	0.009	5	-0.001	2	2.376	5	-0.241	4
240			min	0	3	0	2	-0.002	1	0	2	-0.033	3	0.241	1	-2.376	3
241	M25	1	max	0.921	5	0	4	0	4	0	7	0	7	0	7	0	7
242			min	0.228	1	-0.001	3	-0.001	2	0	1	0	1	0	1	0	1
243		2	max	0.919	5	0	4	0	4	-0.002	4	0.018	5	0.004	4	0.019	2
244			min	0.226	1	-0.001	3	-0.001	2	-0.018	3	0.002	1	-0.019	2	-0.004	1
245		3	max	0.917	5	0	4	0	4	-0.003	4	0.035	5	0.007	4	0.037	2
246			min	0.224	1	-0.001	3	-0.001	2	-0.035	3	0.003	1	-0.037	2	-0.007	1
247		4	max	0.915	5	0	4	0	4	-0.005	4	0.053	5	0.011	4	0.056	2
248			min	0.222	1	-0.001	3	-0.001	2	-0.053	3	0.005	1	-0.056	2	-0.011	1
249		5	max	0.913	5	0	4	0	4	-0.006	4	0.071	5	0.015	4	0.074	2
250			min	0.22	1	-0.001	3	-0.001	2	-0.071	3	0.006	1	-0.074	2	-0.015	1
251	M26	1	max	0	2	0	5	0.096	5	0	7	0	7	0	7	0	7
252			min	0	1	0	2	0.014	2	0	1	0	1	0	1	0	1
253		2	max	0	2	0	5	0.057	5	0	5	0	2	1.402	5	-0.265	2
254			min	0	1	0	2	0.014	2	0	2	-0.001	3	0.265	2	-1.402	3
255		3	max	0	2	0	5	0.018	5	0.001	5	0	2	2.083	5	-0.53	2
256			min	0	1	0	2	0.003	1	0	2	-0.003	3	0.53	2	-2.083	3
257		4	max	0	2	0	5	0.014	2	0.001	5	0	2	2.044	5	-0.795	2
258			min	0	1	0	2	-0.036	1	0	2	-0.004	3	0.795	2	-2.044	3
259		5	max	0	2	0	5	0.014	2	0.001	5	0	2	1.284	5	-0.224	4
260			min	0	1	0	2	-0.076	1	0	2	-0.005	3	0.224	1	-1.284	3
261	M27	1	max	0	4	0	7	0.92	5	0	7	0	7	0	7	0	7
262			min	0	3	0	1	0.157	1	0	1	0	1	0	1	0	1
263		2	max	0	4	0	7	0.46	5	0	7	0	7	12.924	5	-2.198	4
264			min	0	3	0	1	0.078	1	0	1	0	1	2.198	1	-12.924	3
265		3	max	0	4	0	7	0	7	0	7	0	7	17.232	5	-2.931	4
266			min	0	3	0	1	0	3	0	1	0	1	2.931	1	-17.232	3
267		4	max	0	4	0	7	-0.078	4	0	7	0	7	12.924	5	-2.198	4
268			min	0	3	0	1	-0.46	3	0	1	0	1	2.198	1	-12.924	3
269		5	max	0	4	0	7	-0.157	4	0	7	0	7	0	7	0	7
270			min	0	3	0	1	-0.92	3	0	1	0	1	0	1	0	1
271	M28	1	max	-0.002	4	0.041	5	0.975	5	0	7	0	7	0	7	0	7
272			min	-0.006	3	0.005	1	0.149	1	0	1	0	1	0	1	0	1
273		2	max	-0.002	4	0.041	5	0.975	5	0.005	5	-0.003	4	0.365	5	-0.056	4
274			min	-0.006	3	0.005	1	0.149	1	0.001	1	-0.019	3	0.056	1	-0.365	3
275		3	max	-0.002	4	0.041	5	0.974	5	0.01	5	-0.005	4	0.73	5	-0.111	4
276			min	-0.006	3	0.005	1	0.149	1	0.001	1	-0.038	3	0.111	1	-0.73	3
277		4	max	-0.002	4	0.041	5	0.973	5	0.016	5	-0.008	4	1.094	5	-0.167	4
278			min	-0.006	3	0.005	1	0.149	1	0.002	1	-0.058	3	0.167	1	-1.094	3
279		5	max	-0.002	4	0.041	5	0.971	5	0.021	5	-0.01	4	1.458	5	-0.223	4
280			min	-0.006	3	0.005	1	0.148	1	0.003	1	-0.077	3	0.223	1	-1.458	3
281	M29	1	max	1.692	5	0	4	0	4	0	7	0	7	0	7	0	7
282			min	0.31	1	0	3	-0.002	3	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
283		2	max	1.69	5	0	4	0	4	0	4	0.002	5	0	4	0.03	5
284			min	0.308	1	0	3	-0.002	3	-0.002	3	0	1	-0.03	3	0	1
285		3	max	1.688	5	0	4	0	4	-0.001	4	0.003	5	-0.001	4	0.06	5
286			min	0.306	1	0	3	-0.002	3	-0.003	3	0.001	1	-0.06	3	0.001	1
287		4	max	1.686	5	0	4	0	4	-0.001	4	0.005	5	-0.001	4	0.089	5
288			min	0.304	1	0	3	-0.002	3	-0.005	3	0.001	1	-0.089	3	0.001	1
289		5	max	1.684	5	0	4	0	4	-0.002	4	0.006	5	-0.001	4	0.119	5
290			min	0.302	1	0	3	-0.002	3	-0.006	3	0.002	1	-0.119	3	0.001	1
291	M30	1	max	1.689	5	0	4	0	4	0	7	0	7	0	7	0	7
292			min	0.31	1	0	3	-0.002	3	0	1	0	1	0	1	0	1
293		2	max	1.687	5	0	4	0	4	0	4	0.001	5	0	4	0.03	5
294			min	0.308	1	0	3	-0.002	3	-0.001	3	0	1	-0.03	3	0	1
295		3	max	1.685	5	0	4	0	4	-0.001	4	0.002	5	-0.001	4	0.061	5
296			min	0.306	1	0	3	-0.002	3	-0.002	3	0.001	1	-0.061	3	0.001	1
297		4	max	1.683	5	0	4	0	4	-0.001	4	0.004	5	-0.001	4	0.091	5
298			min	0.304	1	0	3	-0.002	3	-0.004	3	0.001	1	-0.091	3	0.001	1
299		5	max	1.681	5	0	4	0	4	-0.002	4	0.005	5	-0.002	4	0.121	5
300			min	0.302	1	0	3	-0.002	3	-0.005	3	0.002	1	-0.121	3	0.002	1
301	M31	1	max	-0.031	4	0.158	5	0	4	0	7	0	7	0	7	0	7
302			min	-0.134	3	0.032	1	-0.001	3	0	1	0	1	0	1	0	1
303		2	max	-0.025	4	0.092	5	0	4	0.208	5	-0.049	4	-0.011	4	0.076	5
304			min	-0.098	3	0.021	1	-0.001	3	0.049	1	-0.208	3	-0.076	3	0.011	1
305		3	max	-0.022	4	0.087	5	0	4	0.382	5	-0.086	4	-0.021	4	0.151	5
306			min	-0.095	3	0.016	1	-0.001	3	0.086	1	-0.382	3	-0.151	3	0.021	1
307		4	max	-0.019	4	0.082	5	0	4	0.547	5	-0.113	4	-0.032	4	0.227	5
308			min	-0.092	3	0.011	1	-0.001	3	0.113	1	-0.547	3	-0.227	3	0.032	1
309		5	max	-0.016	4	0.076	5	0	4	0.701	5	-0.129	4	-0.042	4	0.303	5
310			min	-0.089	3	0.006	1	-0.001	3	0.129	1	-0.701	3	-0.303	3	0.042	1
311	M32	1	max	-0.028	4	0.099	5	0.001	5	0	7	0	7	0	7	0	7
312			min	-0.105	3	0.027	1	0	1	0	1	0	1	0	1	0	1
313		2	max	-0.026	4	0.094	5	0.001	5	0.188	5	-0.047	4	0.082	5	-0.011	4
314			min	-0.102	3	0.021	1	0	1	0.047	1	-0.188	3	0.011	1	-0.082	3
315		3	max	-0.023	4	0.089	5	0.001	5	0.367	5	-0.084	4	0.165	5	-0.021	4
316			min	-0.099	3	0.016	1	0	1	0.084	1	-0.367	3	0.021	1	-0.165	3
317		4	max	-0.02	4	0.083	5	0.001	5	0.535	5	-0.111	4	0.247	5	-0.032	4
318			min	-0.096	3	0.011	1	0	1	0.111	1	-0.535	3	0.032	1	-0.247	3
319		5	max	-0.017	4	0.078	5	0.001	5	0.693	5	-0.128	4	0.33	5	-0.043	4
320			min	-0.093	3	0.006	1	0	1	0.128	1	-0.693	3	0.043	1	-0.33	3
321	M33	1	max	-0.006	4	-0.012	4	-0.001	4	0.702	5	-0.129	4	0.624	5	-0.085	4
322			min	-0.014	3	-0.058	3	-0.005	3	0.129	1	-0.702	3	0.085	1	-0.624	3
323		2	max	-0.003	4	-0.017	4	-0.001	4	0.584	5	-0.101	4	0.312	5	-0.042	4
324			min	-0.011	3	-0.063	3	-0.005	3	0.101	1	-0.584	3	0.042	1	-0.312	3
325		3	max	-0.001	4	-0.022	4	-0.001	4	0.456	5	-0.062	4	0	2	0	4
326			min	-0.008	3	-0.068	3	-0.005	3	0.062	1	-0.456	3	0	1	0	2
327		4	max	0.002	4	-0.028	4	-0.001	4	0.319	5	-0.013	4	-0.043	4	0.311	5
328			min	-0.007	2	-0.073	3	-0.005	3	0.013	1	-0.319	3	-0.311	3	0.043	1
329		5	max	0.005	4	-0.033	4	-0.001	4	0.226	2	0.046	4	-0.085	4	0.623	5
330			min	-0.007	2	-0.078	3	-0.005	3	-0.046	1	-0.226	2	-0.623	3	0.085	1
331	M34	1	max	-0.007	4	-0.012	4	0.005	5	0.693	5	-0.128	4	-0.085	4	0.637	5
332			min	-0.019	3	-0.055	3	0.001	1	0.128	1	-0.693	3	-0.637	3	0.085	1
333		2	max	-0.004	4	-0.017	4	0.005	5	0.58	5	-0.099	4	-0.042	4	0.319	5
334			min	-0.016	3	-0.06	3	0.001	1	0.099	1	-0.58	3	-0.319	3	0.042	1
335		3	max	-0.001	4	-0.022	4	0.005	5	0.457	5	-0.061	4	0	4	0	2
336			min	-0.013	3	-0.065	3	0.001	1	0.061	1	-0.457	3	0	2	0	1
337		4	max	0.002	4	-0.027	4	0.005	5	0.325	5	-0.012	4	0.318	5	-0.043	4

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
338			min	-0.011	2	-0.071	3	0.001	1	0.012	1	-0.325	3	0.043	1	-0.318	3
339		5	max	0.005	4	-0.033	4	0.005	5	0.23	2	0.046	4	0.637	5	-0.085	4
340			min	-0.011	2	-0.076	3	0.001	1	-0.046	1	-0.23	2	0.085	1	-0.637	3
341	M35	1	max	0.067	5	-0.051	4	0.005	5	0.23	2	0.046	4	-0.085	4	0.622	5
342			min	0.015	1	-0.21	3	0.001	1	-0.046	1	-0.23	2	-0.622	3	0.085	1
343		2	max	0.07	5	-0.056	4	0.005	5	-0.079	2	0.233	5	-0.043	4	0.311	5
344			min	0.018	1	-0.215	3	0.001	1	-0.233	3	0.079	2	-0.311	3	0.043	1
345		3	max	0.072	5	-0.061	4	0.005	5	-0.265	4	0.657	5	0	5	0	4
346			min	0.02	1	-0.22	3	0.001	1	-0.657	3	0.265	1	0	1	0	3
347		4	max	0.075	5	-0.066	4	0.005	5	-0.389	4	1.092	5	0.311	5	-0.043	4
348			min	0.023	1	-0.225	3	0.001	1	-1.092	3	0.389	1	0.043	1	-0.311	3
349		5	max	0.078	5	-0.071	4	0.005	5	-0.523	4	1.536	5	0.622	5	-0.085	4
350			min	0.026	1	-0.23	3	0.001	1	-1.536	3	0.523	1	0.085	1	-0.622	3
351	M36	1	max	0.071	5	-0.051	4	-0.001	4	0.226	2	0.046	4	0.637	5	-0.086	4
352			min	0.015	1	-0.212	3	-0.005	3	-0.046	1	-0.226	2	0.086	1	-0.637	3
353		2	max	0.074	5	-0.056	4	-0.001	4	-0.087	2	0.248	5	0.319	5	-0.043	4
354			min	0.018	1	-0.217	3	-0.005	3	-0.248	3	0.087	2	0.043	1	-0.319	3
355		3	max	0.077	5	-0.061	4	-0.001	4	-0.265	4	0.678	5	0	5	0	4
356			min	0.021	1	-0.223	3	-0.005	3	-0.678	3	0.265	1	0	1	0	3
357		4	max	0.08	5	-0.066	4	-0.001	4	-0.389	4	1.117	5	-0.043	4	0.319	5
358			min	0.024	1	-0.228	3	-0.005	3	-1.117	3	0.389	1	-0.319	3	0.043	1
359		5	max	0.083	5	-0.071	4	-0.001	4	-0.523	4	1.567	5	-0.086	4	0.637	5
360			min	0.027	1	-0.233	3	-0.005	3	-1.567	3	0.523	1	-0.637	3	0.086	1
361	M37	1	max	0.152	5	-0.089	4	0.005	5	-0.523	4	1.536	5	-0.085	4	0.603	5
362			min	0.036	1	-0.364	3	0.001	1	-1.536	3	0.523	1	-0.603	3	0.085	1
363		2	max	0.155	5	-0.095	4	0.005	5	-0.703	4	2.252	5	-0.042	4	0.302	5
364			min	0.039	1	-0.369	3	0.001	1	-2.252	3	0.703	1	-0.302	3	0.042	1
365		3	max	0.158	5	-0.1	4	0.005	5	-0.892	4	2.977	5	0	4	0	5
366			min	0.042	1	-0.374	3	0.001	1	-2.977	3	0.892	1	0	3	0	1
367		4	max	0.161	5	-0.105	4	0.005	5	-1.092	4	3.712	5	0.301	5	-0.042	4
368			min	0.045	1	-0.379	3	0.001	1	-3.712	3	1.092	1	0.042	1	-0.301	3
369		5	max	0.164	5	-0.11	4	0.005	5	-1.302	4	4.458	5	0.602	5	-0.085	4
370			min	0.048	1	-0.384	3	0.001	1	-4.458	3	1.302	1	0.085	1	-0.602	3
371	M38	1	max	0.157	5	-0.09	4	-0.001	4	-0.523	4	1.566	5	0.655	5	-0.086	4
372			min	0.037	1	-0.367	3	-0.005	3	-1.566	3	0.523	1	0.086	1	-0.655	3
373		2	max	0.16	5	-0.095	4	-0.001	4	-0.703	4	2.287	5	0.328	5	-0.043	4
374			min	0.04	1	-0.372	3	-0.005	3	-2.287	3	0.703	1	0.043	1	-0.328	3
375		3	max	0.163	5	-0.1	4	-0.001	4	-0.893	4	3.018	5	0	5	0	4
376			min	0.042	1	-0.377	3	-0.005	3	-3.018	3	0.893	1	0	1	0	3
377		4	max	0.166	5	-0.105	4	-0.001	4	-1.093	4	3.759	5	-0.043	4	0.327	5
378			min	0.045	1	-0.382	3	-0.005	3	-3.759	3	1.093	1	-0.327	3	0.043	1
379		5	max	0.168	5	-0.11	4	-0.001	4	-1.303	4	4.51	5	-0.086	4	0.654	5
380			min	0.048	1	-0.387	3	-0.005	3	-4.51	3	1.303	1	-0.654	3	0.086	1
381	M39	1	max	-0.067	4	0.499	5	0.005	5	-1.306	4	4.469	5	-0.087	4	0.669	5
382			min	-0.279	3	0.121	1	0.001	1	-4.469	3	1.306	1	-0.669	3	0.087	1
383		2	max	-0.064	4	0.494	5	0.005	5	-1.076	4	3.502	5	-0.048	4	0.384	5
384			min	-0.276	3	0.115	1	0.001	1	-3.502	3	1.076	1	-0.384	3	0.048	1
385		3	max	-0.061	4	0.489	5	0.005	5	-0.856	4	2.545	5	-0.009	4	0.1	5
386			min	-0.273	3	0.11	1	0.001	1	-2.545	3	0.856	1	-0.1	3	0.009	1
387		4	max	-0.058	4	0.484	5	0.005	5	-0.646	4	1.598	5	0.184	5	-0.03	4
388			min	-0.27	3	0.105	1	0.001	1	-1.598	3	0.646	1	0.03	1	-0.184	3
389		5	max	-0.043	4	0.225	5	0.005	5	-0.295	2	0.756	5	0.469	5	-0.069	4
390			min	-0.127	3	0.077	1	0.001	1	-0.756	3	0.295	2	0.069	1	-0.469	3
391	M40	1	max	-0.057	4	0.307	5	0	4	-1.308	4	4.523	5	0.19	5	-0.048	4
392			min	-0.167	3	0.103	1	-0.001	3	-4.523	3	1.308	1	0.048	1	-0.19	3

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
393		2	max	-0.054	4	0.302	5	0	4	-1.112	4	3.929	5	0.144	5	-0.028	4
394			min	-0.164	3	0.098	1	-0.001	3	-3.929	3	1.112	1	0.028	1	-0.144	3
395		3	max	-0.051	4	0.297	5	0	4	-0.926	4	3.345	5	0.098	5	-0.009	4
396			min	-0.161	3	0.093	1	-0.001	3	-3.345	3	0.926	1	0.009	1	-0.098	3
397		4	max	-0.048	4	0.292	5	0	4	-0.75	4	2.772	5	0.054	2	0.011	4
398			min	-0.158	3	0.088	1	-0.001	3	-2.772	3	0.75	1	-0.011	1	-0.054	2
399		5	max	-0.045	4	0.287	5	0	4	-0.584	4	2.208	5	0.019	2	0.03	4
400			min	-0.155	3	0.083	1	-0.001	3	-2.208	3	0.584	1	-0.03	1	-0.019	2
401	M41	1	max	-0.039	4	0.218	5	0.005	5	-0.295	2	0.756	5	-0.069	4	0.471	5
402			min	-0.123	3	0.07	1	0.001	1	-0.756	3	0.295	2	-0.471	3	0.069	1
403		2	max	-0.036	4	0.212	5	0.005	5	-0.008	2	0.336	5	-0.03	4	0.186	5
404			min	-0.12	3	0.065	1	0.001	1	-0.336	3	0.008	2	-0.186	3	0.03	1
405		3	max	-0.034	4	0.207	5	0.005	5	0.279	2	0.2	4	0.1	5	-0.009	4
406			min	-0.117	3	0.06	1	0.001	1	-0.2	1	-0.279	2	0.009	1	-0.1	3
407		4	max	-0.031	4	0.202	5	0.005	5	0.566	2	0.088	4	0.385	5	-0.048	4
408			min	-0.115	3	0.055	1	0.001	1	-0.088	1	-0.566	2	0.048	1	-0.385	3
409		5	max	-0.028	4	0.197	5	0.005	5	0.863	5	-0.014	4	0.67	5	-0.087	4
410			min	-0.112	3	0.05	1	0.001	1	0.014	1	-0.863	3	0.087	1	-0.67	3
411	M42	1	max	-0.042	4	0.279	5	0	4	-0.584	4	2.208	5	0.03	4	0.02	2
412			min	-0.153	3	0.076	1	-0.001	3	-2.208	3	0.584	1	-0.02	2	-0.03	1
413		2	max	-0.039	4	0.274	5	0	4	-0.441	4	1.667	5	0.011	4	0.055	2
414			min	-0.15	3	0.071	1	-0.001	3	-1.667	3	0.441	1	-0.055	2	-0.011	1
415		3	max	-0.036	4	0.269	5	0	4	-0.308	4	1.136	5	-0.009	4	0.099	5
416			min	-0.147	3	0.066	1	-0.001	3	-1.136	3	0.308	1	-0.099	3	0.009	1
417		4	max	-0.033	4	0.264	5	0	4	-0.185	4	0.615	5	-0.029	4	0.146	5
418			min	-0.145	3	0.06	1	-0.001	3	-0.615	3	0.185	1	-0.146	3	0.029	1
419		5	max	-0.031	4	0.259	5	0	4	-0.02	2	0.104	5	-0.048	4	0.192	5
420			min	-0.142	3	0.055	1	-0.001	3	-0.104	3	0.02	2	-0.192	3	0.048	1
421	M43	1	max	-0.018	4	0.064	5	0.008	5	0.863	5	-0.014	4	-0.114	4	0.971	5
422			min	-0.037	3	0.032	1	0.001	1	0.014	1	-0.863	3	-0.971	3	0.114	1
423		2	max	-0.015	4	0.059	5	0.008	5	0.983	5	-0.071	4	-0.055	4	0.46	5
424			min	-0.034	3	0.026	1	0.001	1	0.071	1	-0.983	3	-0.46	3	0.055	1
425		3	max	-0.012	4	0.053	5	0.008	5	1.092	5	-0.117	4	0.051	5	-0.005	4
426			min	-0.031	3	0.021	1	0.001	1	0.117	1	-1.092	3	0.005	1	-0.051	3
427		4	max	-0.009	4	0.048	5	0.008	5	1.191	5	-0.154	4	0.562	5	-0.064	4
428			min	-0.028	3	0.016	1	0.001	1	0.154	1	-1.191	3	0.064	1	-0.562	3
429		5	max	-0.006	4	0.043	5	0.008	5	1.281	5	-0.18	4	1.073	5	-0.124	4
430			min	-0.025	3	0.011	1	0.001	1	0.18	1	-1.281	3	0.124	1	-1.073	3
431	M44	1	max	-0.021	4	0.126	5	-0.001	4	-0.02	2	0.105	5	0.493	5	-0.076	4
432			min	-0.068	3	0.037	1	-0.004	3	-0.105	3	0.02	2	0.076	1	-0.493	3
433		2	max	-0.018	4	0.12	5	-0.001	4	0.151	2	0.005	4	0.22	5	-0.035	4
434			min	-0.066	3	0.032	1	-0.004	3	-0.005	1	-0.151	2	0.035	1	-0.22	3
435		3	max	-0.015	4	0.115	5	-0.001	4	0.366	5	-0.053	4	-0.005	4	0.052	5
436			min	-0.063	3	0.027	1	-0.004	3	0.053	1	-0.366	3	-0.052	3	0.005	1
437		4	max	-0.012	4	0.11	5	-0.001	4	0.586	5	-0.1	4	-0.045	4	0.324	5
438			min	-0.06	3	0.022	1	-0.004	3	0.1	1	-0.586	3	-0.324	3	0.045	1
439		5	max	-0.009	4	0.105	5	-0.001	4	0.796	5	-0.137	4	-0.085	4	0.596	5
440			min	-0.057	3	0.017	1	-0.004	3	0.137	1	-0.796	3	-0.596	3	0.085	1
441	M45	1	max	0.085	5	-0.013	4	0.004	5	1.281	5	-0.181	4	-0.097	4	1.054	5
442			min	0.007	1	-0.154	3	0	1	0.181	1	-1.281	3	-1.054	3	0.097	1
443		2	max	0.088	5	-0.018	4	0.004	5	0.976	5	-0.15	4	-0.072	4	0.79	5
444			min	0.01	1	-0.159	3	0	1	0.15	1	-0.976	3	-0.79	3	0.072	1
445		3	max	0.091	5	-0.023	4	0.004	5	0.661	5	-0.11	4	-0.048	4	0.527	5
446			min	0.013	1	-0.164	3	0	1	0.11	1	-0.661	3	-0.527	3	0.048	1
447		4	max	0.094	5	-0.028	4	0.004	5	0.335	5	-0.06	4	-0.024	4	0.263	5

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
448			min	0.016	1	-0.169	3	0	1	0.06	1	-0.335	3	-0.263	3	0.024	1
449		5	max	0.097	5	-0.033	4	0.004	5	0	7	0	7	0	7	0	7
450			min	0.019	1	-0.174	3	0	1	0	1	0	1	0	1	0	1
451	M46	1	max	0.051	5	-0.007	4	0	5	0.796	5	-0.137	4	0.017	4	0.116	5
452			min	0.004	1	-0.092	3	0	1	0.137	1	-0.796	3	-0.116	3	-0.017	1
453		2	max	0.054	5	-0.012	4	0	5	0.612	5	-0.118	4	0.013	4	0.087	5
454			min	0.007	1	-0.097	3	0	1	0.118	1	-0.612	3	-0.087	3	-0.013	1
455		3	max	0.057	5	-0.018	4	0	5	0.418	5	-0.089	4	0.009	4	0.058	5
456			min	0.01	1	-0.102	3	0	1	0.089	1	-0.418	3	-0.058	3	-0.009	1
457		4	max	0.059	5	-0.023	4	0	5	0.214	5	-0.049	4	0.004	4	0.029	5
458			min	0.013	1	-0.107	3	0	1	0.049	1	-0.214	3	-0.029	3	-0.004	1
459		5	max	0.062	5	-0.028	4	0	5	0	7	0	7	0	7	0	7
460			min	0.015	1	-0.112	3	0	1	0	1	0	1	0	1	0	1
461	M47	1	max	0.003	5	0	4	-0.125	4	0.008	5	-0.001	4	0.192	5	-0.008	4
462			min	0	1	0	3	-0.919	3	0.001	1	-0.008	3	0.033	1	-0.045	3
463		2	max	0.003	5	0	4	-0.062	4	0.008	5	-0.001	4	-0.69	4	1.211	5
464			min	0	1	0	3	-0.458	3	0.001	1	-0.008	3	-5.142	3	0.163	1
465		3	max	0.003	5	0	4	0	4	0.008	5	-0.001	4	-0.929	4	1.627	5
466			min	0	1	0	3	-0.003	3	0.001	1	-0.008	3	-6.903	3	0.219	1
467		4	max	0.003	5	0	4	0.459	5	0.008	5	-0.001	4	-0.692	4	1.217	5
468			min	0	1	0	3	0.062	1	0.001	1	-0.008	3	-5.166	3	0.163	1
469		5	max	0.003	5	0	4	0.923	5	0.008	5	-0.001	4	0.187	5	-0.008	4
470			min	0	1	0	3	0.125	1	0.001	1	-0.008	3	0.033	1	-0.044	3
471	M48	1	max	0	4	0	5	-0.124	4	0.016	5	-0.002	4	0.171	5	-0.005	4
472			min	0	2	0	1	-0.916	3	0.002	1	-0.016	3	0.023	1	-0.04	3
473		2	max	0	4	0	5	-0.062	4	0.016	5	-0.002	4	-0.698	4	1.211	5
474			min	0	2	0	1	-0.458	3	0.002	1	-0.016	3	-5.138	3	0.164	1
475		3	max	0	4	0	5	0	5	0.016	5	-0.002	4	-0.938	4	1.628	5
476			min	0	2	0	1	0	1	0.002	1	-0.016	3	-6.908	3	0.221	1
477		4	max	0	4	0	5	0.458	5	0.016	5	-0.002	4	-0.698	4	1.211	5
478			min	0	2	0	1	0.062	1	0.002	1	-0.016	3	-5.138	3	0.164	1
479		5	max	0	4	0	5	0.916	5	0.016	5	-0.002	4	0.171	5	-0.005	4
480			min	0	2	0	1	0.124	1	0.002	1	-0.016	3	0.023	1	-0.04	3
481	M49	1	max	0	4	0	5	-0.124	4	0.015	5	-0.002	4	0.167	5	-0.005	4
482			min	0	3	0	1	-0.915	3	0.002	1	-0.015	3	0.023	1	-0.039	3
483		2	max	0	4	0	5	-0.062	4	0.016	5	-0.002	4	-0.698	4	1.211	5
484			min	0	3	0	1	-0.457	3	0.002	1	-0.016	3	-5.14	3	0.164	1
485		3	max	0	4	0	5	0	5	0.016	5	-0.002	4	-0.938	4	1.628	5
486			min	0	3	0	1	0	1	0.002	1	-0.016	3	-6.908	3	0.221	1
487		4	max	0	4	0	5	0.458	5	0.016	5	-0.002	4	-0.698	4	1.21	5
488			min	0	3	0	1	0.062	1	0.002	1	-0.016	3	-5.136	3	0.164	1
489		5	max	0	4	0	5	0.916	5	0.016	5	-0.002	4	0.176	5	-0.006	4
490			min	0	3	0	1	0.124	1	0.002	1	-0.016	3	0.023	1	-0.041	3
491	M50	1	max	-0.004	4	0	4	-0.124	4	0.016	5	-0.002	4	0.17	5	-0.005	4
492			min	-0.013	3	-0.001	3	-0.914	3	0.002	1	-0.016	3	0.023	1	-0.04	3
493		2	max	-0.004	4	0	4	-0.062	4	0.014	5	-0.002	4	-0.697	4	1.208	5
494			min	-0.013	3	-0.001	3	-0.457	3	0.002	1	-0.014	3	-5.128	3	0.164	1
495		3	max	-0.004	4	0	4	0.001	5	0.011	5	-0.002	4	-0.937	4	1.624	5
496			min	-0.013	3	-0.001	3	0	1	0.002	1	-0.011	3	-6.891	3	0.221	1
497		4	max	-0.004	4	0	4	0.458	5	0.008	5	-0.001	4	-0.696	4	1.206	5
498			min	-0.013	3	-0.001	3	0.062	1	0.001	1	-0.008	3	-5.118	3	0.164	1
499		5	max	-0.004	4	0	4	0.915	5	0.006	5	-0.001	4	0.19	5	-0.006	4
500			min	-0.013	3	-0.001	3	0.124	1	0.001	1	-0.006	3	0.025	1	-0.045	3
501	M51	1	max	0	2	0	4	-0.003	2	0.017	5	-0.002	4	0.052	5	-0.003	4
502			min	0	1	-0.001	3	-0.049	3	0.002	1	-0.017	3	0.012	1	-0.012	3

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
503		2	max	0	2	0	4	-0.003	2	0.014	5	-0.002	4	0.01	2	0.06	4
504			min	0	1	-0.001	3	-0.027	3	0.002	1	-0.014	3	-0.253	1	-0.002	2
505		3	max	0	2	0	4	0	4	0.01	5	-0.002	4	-0.016	2	0.084	5
506			min	0	1	-0.001	3	-0.004	3	0.002	1	-0.01	3	-0.359	3	0.004	2
507		4	max	0	2	0	4	0.022	4	0.007	5	-0.001	4	-0.041	2	0.071	5
508			min	0	1	-0.001	3	-0.003	2	0.001	1	-0.007	3	-0.301	3	0.01	2
509		5	max	0	2	0	4	0.045	4	0.004	5	-0.001	4	0.002	4	0.016	5
510			min	0	1	-0.001	3	-0.003	2	0.001	1	-0.004	3	-0.069	3	0	1
511	M52	1	max	0.003	5	0	4	-0.125	4	0.02	5	-0.002	4	0.238	5	-0.007	4
512			min	0	1	-0.001	3	-0.92	3	0.002	1	-0.02	3	0.029	1	-0.056	3
513		2	max	0.003	5	0	4	-0.062	4	0.017	5	-0.002	4	-0.695	4	1.202	5
514			min	0	1	-0.001	3	-0.462	3	0.002	1	-0.017	3	-5.103	3	0.164	1
515		3	max	0.003	5	0	4	0	4	0.014	5	-0.002	4	-0.938	4	1.627	5
516			min	0	1	-0.001	3	-0.004	3	0.002	1	-0.014	3	-6.904	3	0.221	1
517		4	max	0.003	5	0	4	0.454	5	0.01	5	-0.002	4	-0.7	4	1.217	5
518			min	0	1	-0.001	3	0.062	1	0.002	1	-0.01	3	-5.165	3	0.165	1
519		5	max	0.003	5	0	4	0.911	5	0.007	5	-0.001	4	0.113	5	-0.004	4
520			min	0	1	-0.001	3	0.124	1	0.001	1	-0.007	3	0.019	1	-0.027	3
521	M53	1	max	0	4	0	4	-0.164	4	0.026	5	-0.003	4	0.31	5	-0.008	4
522			min	-0.004	3	-0.002	3	-1.358	3	0.003	1	-0.026	3	0.032	1	-0.073	3
523		2	max	0	4	0	4	-0.082	4	0.02	5	-0.002	4	-0.923	4	1.786	5
524			min	-0.004	3	-0.002	3	-0.683	3	0.002	1	-0.02	3	-7.58	3	0.217	1
525		3	max	0	4	0	4	-0.001	4	0.015	5	-0.002	4	-1.244	4	2.415	5
526			min	-0.004	3	-0.002	3	-0.007	3	0.002	1	-0.015	3	-10.248	3	0.293	1
527		4	max	0	4	0	4	0.668	5	0.01	5	-0.002	4	-0.931	4	1.813	5
528			min	-0.004	3	-0.002	3	0.081	1	0.002	1	-0.01	3	-7.694	3	0.219	1
529		5	max	0	4	0	4	1.343	5	0.005	5	-0.001	4	0.082	5	-0.004	4
530			min	-0.004	3	-0.002	3	0.163	1	0.001	1	-0.005	3	0.015	1	-0.019	3
531	M54	1	max	0.004	5	0.013	5	0.001	4	-0.022	4	0.7	5	5.661	5	-2.116	4
532			min	0.001	1	0.001	1	-0.078	2	-0.191	3	0.082	1	2.116	1	-5.661	3
533		2	max	0.004	5	0.013	5	-0.023	4	-0.017	4	0.525	5	4.651	5	-1.992	4
534			min	0.001	1	0.001	1	-0.102	3	-0.143	3	0.061	1	1.992	1	-4.651	3
535		3	max	0.004	5	0.013	5	-0.047	4	-0.011	4	0.35	5	3.371	5	-1.598	4
536			min	0.001	1	0.001	1	-0.126	3	-0.096	3	0.041	1	1.598	1	-3.371	3
537		4	max	0.004	5	0.013	5	-0.071	4	-0.006	4	0.175	5	1.82	5	-0.877	2
538			min	0.001	1	0.001	1	-0.15	3	-0.048	3	0.02	1	0.877	2	-1.82	3
539		5	max	0.004	5	0.013	5	-0.078	2	0	7	0	7	0	7	0	7
540			min	0.001	1	0.001	1	-0.174	3	0	1	0	1	0	1	0	1
541	M55	1	max	1.533	5	0	7	0	7	0	7	0	7	0	7	0	7
542			min	0.438	1	0	1	0	1	0	1	0	1	0	1	0	1
543		2	max	1.532	5	0	7	0	7	0	7	0	7	0	7	0	7
544			min	0.437	1	0	1	0	1	0	1	0	1	0	1	0	1
545		3	max	1.531	5	0	7	0	7	0	7	0	7	0	7	0	7
546			min	0.436	1	0	1	0	1	0	1	0	1	0	1	0	1
547		4	max	1.53	5	0	7	0	7	0	7	0	7	0	7	0	7
548			min	0.435	1	0	1	0	1	0	1	0	1	0	1	0	1
549		5	max	1.529	5	0	7	0	7	0	7	0	7	0	7	0	7
550			min	0.434	1	0	1	0	1	0	1	0	1	0	1	0	1
551	M56	1	max	1.883	5	0	7	0	7	0	7	0	7	0	7	0	7
552			min	0.47	1	0	1	0	1	0	1	0	1	0	1	0	1
553		2	max	1.882	5	0	7	0	7	0	7	0	7	0	7	0	7
554			min	0.469	1	0	1	0	1	0	1	0	1	0	1	0	1
555		3	max	1.881	5	0	7	0	7	0	7	0	7	0	7	0	7
556			min	0.468	1	0	1	0	1	0	1	0	1	0	1	0	1
557		4	max	1.88	5	0	7	0	7	0	7	0	7	0	7	0	7

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
558			min	0.467	1	0	1	0	1	0	1	0	1	0	1	0	1
559		5	max	1.879	5	0	7	0	7	0	7	0	7	0	7	0	7
560			min	0.466	1	0	1	0	1	0	1	0	1	0	1	0	1
561	M57	1	max	0	4	0	7	0.814	5	0	7	0	7	0	7	0	7
562			min	0	3	0	1	0.079	1	0	1	0	1	0	1	0	1
563		2	max	0	4	0	7	0.41	5	0	7	0	7	11.413	5	-1.104	4
564			min	0	3	0	1	0.04	1	0	1	0	1	1.104	1	-11.413	3
565		3	max	0	4	0	7	0.007	5	0	7	0	7	15.332	5	-1.482	4
566			min	0	3	0	1	0.001	1	0	1	0	1	1.482	1	-15.332	3
567		4	max	0	4	0	7	-0.04	4	0	7	0	7	11.524	5	-1.114	4
568			min	0	3	0	1	-0.415	3	0	1	0	1	1.114	1	-11.524	3
569		5	max	0	4	0	7	-0.079	4	0	7	0	7	0	7	0	7
570			min	0	3	0	1	-0.821	3	0	1	0	1	0	1	0	1
571	M58	1	max	0	5	0	7	0.814	5	0	7	0	7	0	7	0	7
572			min	0	2	0	1	0.079	1	0	1	0	1	0	1	0	1
573		2	max	0	5	0	7	0.409	5	0	7	0	7	11.41	5	-1.103	4
574			min	0	2	0	1	0.04	1	0	1	0	1	1.103	1	-11.41	3
575		3	max	0	5	0	7	0.007	5	0	7	0	7	15.328	5	-1.482	4
576			min	0	2	0	1	0.001	1	0	1	0	1	1.482	1	-15.328	3
577		4	max	0	5	0	7	-0.04	4	0	7	0	7	11.523	5	-1.114	4
578			min	0	2	0	1	-0.415	3	0	1	0	1	1.114	1	-11.523	3
579		5	max	0	5	0	7	-0.079	4	0	7	0	7	0	7	0	7
580			min	0	2	0	1	-0.821	3	0	1	0	1	0	1	0	1
581	M59	1	max	0.001	5	0	7	0.831	5	0	7	0	7	0	7	0	7
582			min	0	2	0	1	0.08	1	0	1	0	1	0	1	0	1
583		2	max	0.001	5	0	7	0.415	5	0	7	0	7	11.619	5	-1.122	4
584			min	0	2	0	1	0.04	1	0	1	0	1	1.122	1	-11.619	3
585		3	max	0.001	5	0	7	0.005	5	0	7	0	7	15.559	5	-1.503	4
586			min	0	2	0	1	0	1	0	1	0	1	1.503	1	-15.559	3
587		4	max	0.001	5	0	7	-0.041	4	0	7	0	7	11.665	5	-1.126	4
588			min	0	2	0	1	-0.421	3	0	1	0	1	1.126	1	-11.665	3
589		5	max	0.001	5	0	7	-0.08	4	0	7	0	7	0	7	0	7
590			min	0	2	0	1	-0.829	3	0	1	0	1	0	1	0	1
591	M60	1	max	0	5	0	7	0.814	5	0	7	0	7	0	7	0	7
592			min	0	1	0	1	0.079	1	0	1	0	1	0	1	0	1
593		2	max	0	5	0	7	0.409	5	0	7	0	7	11.41	5	-1.103	4
594			min	0	1	0	1	0.04	1	0	1	0	1	1.103	1	-11.41	3
595		3	max	0	5	0	7	0.007	5	0	7	0	7	15.327	5	-1.481	4
596			min	0	1	0	1	0.001	1	0	1	0	1	1.481	1	-15.327	3
597		4	max	0	5	0	7	-0.04	4	0	7	0	7	11.521	5	-1.113	4
598			min	0	1	0	1	-0.415	3	0	1	0	1	1.113	1	-11.521	3
599		5	max	0	5	0	7	-0.079	4	0	7	0	7	0	7	0	7
600			min	0	1	0	1	-0.821	3	0	1	0	1	0	1	0	1
601	M61	1	max	0	2	0	7	-0.077	4	0	7	0	7	0	7	0	7
602			min	-0.002	3	0	1	-0.8	3	0	1	0	1	0	1	0	1
603		2	max	0	2	0	7	-0.039	4	0	7	0	7	-1.087	4	11.228	5
604			min	-0.002	3	0	1	-0.404	3	0	1	0	1	-11.228	3	1.087	1
605		3	max	0	2	0	7	0.006	5	0	7	0	7	-1.445	4	14.931	5
606			min	-0.002	3	0	1	0.001	1	0	1	0	1	-14.931	3	1.445	1
607		4	max	0	2	0	7	0.397	5	0	7	0	7	-1.08	4	11.151	5
608			min	-0.002	3	0	1	0.038	1	0	1	0	1	-11.151	3	1.08	1
609		5	max	0	2	0	7	0.797	5	0	7	0	7	0	7	0	7
610			min	-0.002	3	0	1	0.077	1	0	1	0	1	0	1	0	1
611	M62	1	max	0	2	0	7	-0.077	4	0	7	0	7	0	7	0	7
612			min	-0.005	3	0	1	-0.8	3	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
613		2	max	0	2	0	7	-0.039	4	0	7	0	7	-1.087	4	11.229	5
614			min	-0.005	3	0	1	-0.404	3	0	1	0	1	-11.229	3	1.087	1
615		3	max	0	2	0	7	0.006	5	0	7	0	7	-1.446	4	14.932	5
616			min	-0.005	3	0	1	0.001	1	0	1	0	1	-14.932	3	1.446	1
617		4	max	0	2	0	7	0.397	5	0	7	0	7	-1.08	4	11.151	5
618			min	-0.005	3	0	1	0.038	1	0	1	0	1	-11.151	3	1.08	1
619		5	max	0	2	0	7	0.797	5	0	7	0	7	0	7	0	7
620			min	-0.005	3	0	1	0.077	1	0	1	0	1	0	1	0	1
621	M63	1	max	0	2	0	7	-0.078	4	0	7	0	7	0	7	0	7
622			min	-0.01	3	0	1	-0.804	3	0	1	0	1	0	1	0	1
623		2	max	0	2	0	7	-0.039	4	0	7	0	7	-1.091	4	11.276	5
624			min	-0.01	3	0	1	-0.407	3	0	1	0	1	-11.276	3	1.091	1
625		3	max	0	2	0	7	0	4	0	7	0	7	-1.464	4	15.138	5
626			min	-0.01	3	0	1	-0.004	3	0	1	0	1	-15.138	3	1.464	1
627		4	max	0	2	0	7	0.41	5	0	7	0	7	-1.098	4	11.348	5
628			min	-0.01	3	0	1	0.04	1	0	1	0	1	-11.348	3	1.098	1
629		5	max	0	2	0	7	0.807	5	0	7	0	7	0	7	0	7
630			min	-0.01	3	0	1	0.078	1	0	1	0	1	0	1	0	1
631	M64	1	max	0	2	0	7	-0.077	4	0	7	0	7	0	7	0	7
632			min	-0.001	3	0	1	-0.8	3	0	1	0	1	0	1	0	1
633		2	max	0	2	0	7	-0.039	4	0	7	0	7	-1.087	4	11.231	5
634			min	-0.001	3	0	1	-0.404	3	0	1	0	1	-11.231	3	1.087	1
635		3	max	0	2	0	7	0.006	5	0	7	0	7	-1.446	4	14.934	5
636			min	-0.001	3	0	1	0.001	1	0	1	0	1	-14.934	3	1.446	1
637		4	max	0	2	0	7	0.397	5	0	7	0	7	-1.08	4	11.153	5
638			min	-0.001	3	0	1	0.038	1	0	1	0	1	-11.153	3	1.08	1
639		5	max	0	2	0	7	0.797	5	0	7	0	7	0	7	0	7
640			min	-0.001	3	0	1	0.077	1	0	1	0	1	0	1	0	1
641	M65	1	max	0	2	0	7	0.005	7	0	7	0	7	0	7	0	7
642			min	0	1	0	1	0	2	0	1	0	1	0	1	0	1
643		2	max	0	2	0	7	0.003	7	0	7	0	7	0.073	7	0	2
644			min	0	1	0	1	0	2	0	1	0	1	0	2	-0.073	3
645		3	max	0	2	0	7	0	7	0	7	0	7	0.097	7	0	2
646			min	0	1	0	1	0	1	0	1	0	1	0	2	-0.097	3
647		4	max	0	2	0	7	0	2	0	7	0	7	0.073	7	0	2
648			min	0	1	0	1	-0.003	1	0	1	0	1	0	2	-0.073	3
649		5	max	0	2	0	7	0	2	0	7	0	7	0	7	0	7
650			min	0	1	0	1	-0.005	1	0	1	0	1	0	1	0	1
651	M66	1	max	0	2	0	7	0.005	7	0	7	0	7	0	7	0	7
652			min	0	1	0	1	0	2	0	1	0	1	0	1	0	1
653		2	max	0	2	0	7	0.003	7	0	7	0	7	0.073	7	0	2
654			min	0	1	0	1	0	2	0	1	0	1	0	2	-0.073	3
655		3	max	0	2	0	7	0	7	0	7	0	7	0.097	7	0	2
656			min	0	1	0	1	0	1	0	1	0	1	0	2	-0.097	3
657		4	max	0	2	0	7	0	2	0	7	0	7	0.073	7	0	2
658			min	0	1	0	1	-0.003	1	0	1	0	1	0	2	-0.073	3
659		5	max	0	2	0	7	0	2	0	7	0	7	0	7	0	7
660			min	0	1	0	1	-0.005	1	0	1	0	1	0	1	0	1
661	M67	1	max	0	2	0	7	0.005	7	0	7	0	7	0	7	0	7
662			min	0	3	0	1	0	2	0	1	0	1	0	1	0	1
663		2	max	0	2	0	7	0.003	7	0	7	0	7	0.073	7	0	2
664			min	0	3	0	1	0	2	0	1	0	1	0	2	-0.073	3
665		3	max	0	2	0	7	0	7	0	7	0	7	0.097	7	0	2
666			min	0	3	0	1	0	1	0	1	0	1	0	2	-0.097	3
667		4	max	0	2	0	7	0	2	0	7	0	7	0.073	7	0	2

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
668			min	0	3	0	1	-0.003	1	0	1	0	1	0	2	-0.073	3
669		5	max	0	2	0	7	0	2	0	7	0	7	0	7	0	7
670			min	0	3	0	1	-0.005	1	0	1	0	1	0	1	0	1
671	M68	1	max	0	4	0	7	0.006	4	0	5	0	6	0.038	2	0.045	4
672			min	0	2	0	1	-0.001	2	0	1	0	3	-0.045	1	-0.038	2
673		2	max	0	4	0	7	0.003	4	0	5	0	7	0.068	5	-0.029	2
674			min	0	2	0	1	-0.001	2	0	1	0	3	0.029	2	-0.068	3
675		3	max	0	4	0	7	0.001	4	0	7	0	7	0.093	5	-0.019	2
676			min	0	2	0	1	-0.001	2	0	1	0	1	0.019	2	-0.093	3
677		4	max	0	4	0	7	-0.001	2	0	7	0	7	0.071	5	-0.01	2
678			min	0	2	0	1	-0.002	3	0	1	0	1	0.01	2	-0.071	3
679		5	max	0	4	0	7	-0.001	2	0	7	0	7	0	7	0	7
680			min	0	2	0	1	-0.005	3	0	1	0	1	0	1	0	1
681	M69	1	max	0	2	0	2	-0.156	4	0.002	5	-0.001	2	2.352	5	-0.234	4
682			min	0	1	-0.005	3	-1.57	3	0	2	-0.009	3	0.234	1	-2.352	3
683		2	max	0	2	0	2	-0.156	4	0.002	5	0	2	1.764	5	-0.176	4
684			min	0	1	-0.005	3	-1.57	3	0	2	-0.007	3	0.176	1	-1.764	3
685		3	max	0	2	0	2	-0.157	4	0.001	5	0	2	1.176	5	-0.117	4
686			min	0	1	-0.005	3	-1.57	3	0	2	-0.004	3	0.117	1	-1.176	3
687		4	max	0	2	0	2	-0.157	4	0.001	5	0	2	0.588	5	-0.059	4
688			min	0	1	-0.005	3	-1.57	3	0	2	-0.002	3	0.059	1	-0.588	3
689		5	max	0	2	0	2	-0.157	4	0	7	0	7	0	7	0	7
690			min	0	1	-0.005	3	-1.57	3	0	1	0	1	0	1	0	1
691	M70	1	max	0	2	0	2	-0.156	4	0.004	5	-0.001	2	2.352	5	-0.234	4
692			min	0	1	-0.009	3	-1.57	3	0	2	-0.016	3	0.234	1	-2.352	3
693		2	max	0	2	0	2	-0.157	4	0.003	5	-0.001	2	1.764	5	-0.176	4
694			min	0	1	-0.009	3	-1.57	3	0	2	-0.012	3	0.176	1	-1.764	3
695		3	max	0	2	0	2	-0.157	4	0.002	5	0	2	1.176	5	-0.117	4
696			min	0	1	-0.009	3	-1.57	3	0	2	-0.008	3	0.117	1	-1.176	3
697		4	max	0	2	0	2	-0.157	4	0.001	5	0	2	0.588	5	-0.059	4
698			min	0	1	-0.009	3	-1.57	3	0	2	-0.004	3	0.059	1	-0.588	3
699		5	max	0	2	0	2	-0.157	4	0	7	0	7	0	7	0	7
700			min	0	1	-0.009	3	-1.571	3	0	1	0	1	0	1	0	1
701	M71	1	max	0	2	-0.001	2	-0.157	4	0.009	5	-0.001	2	2.365	5	-0.236	4
702			min	0	3	-0.018	3	-1.58	3	0	2	-0.033	3	0.236	1	-2.365	3
703		2	max	0	2	-0.001	2	-0.157	4	0.007	5	-0.001	2	1.774	5	-0.177	4
704			min	0	3	-0.018	3	-1.58	3	0	2	-0.025	3	0.177	1	-1.774	3
705		3	max	0	2	-0.001	2	-0.157	4	0.005	5	-0.001	2	1.183	5	-0.118	4
706			min	0	3	-0.018	3	-1.58	3	0	2	-0.017	3	0.118	1	-1.183	3
707		4	max	0	2	-0.001	2	-0.157	4	0.002	5	0	2	0.591	5	-0.059	4
708			min	0	3	-0.018	3	-1.58	3	0	2	-0.008	3	0.059	1	-0.591	3
709		5	max	0	2	-0.001	2	-0.157	4	0	7	0	7	0	7	0	7
710			min	0	3	-0.018	3	-1.58	3	0	1	0	1	0	1	0	1
711	M72	1	max	0	2	0	2	-0.153	4	0.001	5	0	2	1.285	5	-0.229	4
712			min	0	1	-0.003	3	-0.858	3	0	2	-0.005	3	0.229	1	-1.285	3
713		2	max	0	2	0	2	-0.153	4	0.001	5	0	2	0.964	5	-0.172	4
714			min	0	1	-0.003	3	-0.858	3	0	2	-0.004	3	0.172	1	-0.964	3
715		3	max	0	2	0	2	-0.153	4	0.001	5	0	2	0.643	5	-0.114	4
716			min	0	1	-0.003	3	-0.858	3	0	2	-0.003	3	0.114	1	-0.643	3
717		4	max	0	2	0	2	-0.153	4	0	5	0	2	0.321	5	-0.057	4
718			min	0	1	-0.003	3	-0.859	3	0	2	-0.001	3	0.057	1	-0.321	3
719		5	max	0	2	0	2	-0.153	4	0	7	0	7	0	7	0	7
720			min	0	1	-0.003	3	-0.859	3	0	1	0	1	0	1	0	1
721	M73	1	max	-0.002	4	0.011	2	0.167	5	0.021	5	-0.01	4	1.447	5	-0.217	4
722			min	-0.006	3	0.001	1	0.071	1	0.003	1	-0.077	3	0.217	1	-1.447	3

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
723		2	max	-0.002	4	0.011	2	0.166	5	0.036	5	-0.015	4	2.632	5	-0.716	4
724			min	-0.006	3	0.001	1	0.07	1	0.004	1	-0.133	3	0.716	1	-2.632	3
725		3	max	-0.002	4	0.011	2	0.165	5	0.061	2	-0.019	4	3.809	5	-1.207	4
726			min	-0.006	3	0.001	1	0.069	1	0.005	1	-0.223	2	1.207	1	-3.809	3
727		4	max	-0.002	4	0.011	2	0.164	5	0.088	2	-0.024	4	4.98	5	-1.692	4
728			min	-0.006	3	0.001	1	0.068	1	0.007	1	-0.323	2	1.692	1	-4.98	3
729		5	max	-0.002	4	0.011	2	0.163	5	0.116	2	-0.029	4	6.143	5	-2.169	4
730			min	-0.006	3	0.001	1	0.067	1	0.008	1	-0.423	2	2.169	1	-6.143	3

Envelope Member Section Deflections - Service

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1	M1	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
2			min	0	1	0	1	0	1	0	1	NC	1	NC	1
3		2	max	-0.001	4	0	4	0	4	0	7	NC	7	NC	7
4			min	-0.004	3	0	3	-0.004	3	0	1	NC	1	NC	1
5		3	max	-0.002	4	0	4	0	4	0	7	NC	7	NC	7
6			min	-0.008	3	0	3	-0.006	3	0	1	NC	1	NC	1
7		4	max	-0.002	4	0	4	0	4	0	7	NC	7	NC	7
8			min	-0.013	3	0	3	-0.005	3	0	1	NC	1	NC	1
9		5	max	-0.003	4	0	4	0	5	0	7	NC	7	NC	7
10			min	-0.017	3	0	3	0	1	0	1	NC	1	NC	1
11	M2	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
12			min	0	1	0	1	0	1	0	1	NC	1	NC	1
13		2	max	-0.001	4	0	4	0	4	0	7	NC	7	NC	7
14			min	-0.003	3	-0.002	3	-0.003	3	0	1	NC	1	NC	1
15		3	max	-0.001	4	0	4	0	4	0	7	NC	7	NC	7
16			min	-0.005	3	-0.004	3	-0.004	3	0	1	NC	1	NC	1
17		4	max	-0.002	4	0	4	0	4	0	7	NC	7	NC	7
18			min	-0.008	3	-0.003	3	-0.004	3	0	1	NC	1	NC	1
19		5	max	-0.002	4	0	7	0	7	0	7	NC	7	NC	7
20			min	-0.01	3	0	1	0	1	0	1	NC	1	NC	1
21	M3	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
22			min	0	1	0	1	0	1	0	1	NC	1	NC	1
23		2	max	-0.001	4	0	4	0	4	0	7	NC	7	NC	7
24			min	-0.007	3	-0.001	3	0	3	0	1	NC	1	NC	1
25		3	max	-0.002	4	0	4	0	4	0	7	NC	7	NC	7
26			min	-0.014	3	-0.001	3	0	3	0	1	NC	1	NC	1
27		4	max	-0.002	4	0	4	0	4	0	7	NC	7	NC	7
28			min	-0.021	3	-0.001	3	0	3	0	1	NC	1	NC	1
29		5	max	-0.003	4	0	4	0	7	0	7	NC	7	NC	7
30			min	-0.029	3	0	3	0	2	0	1	NC	1	NC	1
31	M4	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
32			min	0	1	0	1	0	1	0	1	NC	1	NC	1
33		2	max	-0.001	4	0	4	0	5	0	7	NC	7	NC	7
34			min	-0.005	3	-0.004	3	0	1	0	1	NC	1	NC	1
35		3	max	-0.001	4	0	4	0	5	0	7	NC	7	NC	7
36			min	-0.009	3	-0.006	3	0	1	0	1	NC	1	NC	1
37		4	max	-0.002	4	0	4	0	5	0	7	NC	7	NC	7
38			min	-0.014	3	-0.005	3	0	1	0	1	NC	1	NC	1
39		5	max	-0.003	4	0	4	0	5	0	7	NC	7	NC	7
40			min	-0.019	3	0	2	0	2	0	1	NC	1	NC	1
41	M5	1	max	0	5	0	4	-0.003	4	0	5	NC	7	NC	7
42			min	0	1	0	3	-0.017	3	0	1	NC	1	NC	1
43		2	max	0	5	0	4	-0.052	4	0	5	NC	7	1228.242	4
44			min	0	1	0	3	-0.306	3	0	1	NC	1	207.45	3

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
45		3	max	0	5	0	4	-0.072	4	0	5	NC	7	875.139	4
46			min	0	1	0	3	-0.423	3	0	1	NC	1	147.813	3
47		4	max	0	5	0	4	-0.052	4	0	5	NC	7	1228.303	4
48			min	0	1	0	3	-0.306	3	0	1	NC	1	207.469	3
49		5	max	0	5	0	4	-0.003	4	0	5	NC	7	NC	7
50			min	0	1	0	3	-0.017	3	0	1	NC	1	NC	1
51	M6	1	max	0	5	0	4	-0.003	4	0	5	NC	7	NC	7
52			min	0	1	0	3	-0.017	3	0	1	NC	1	NC	1
53		2	max	0	5	0	4	-0.052	4	0	5	NC	7	1227.831	4
54			min	0	1	0	2	-0.306	3	0	1	NC	1	207.321	3
55		3	max	0	5	0	4	-0.072	4	0	5	NC	7	874.83	4
56			min	0	1	0	2	-0.423	3	0	1	NC	1	147.716	3
57		4	max	0	5	0	4	-0.052	4	0	5	NC	7	1227.831	4
58			min	0	1	0	2	-0.306	3	0	1	NC	1	207.321	3
59		5	max	0	5	0	7	-0.003	4	0	5	NC	7	NC	7
60			min	0	1	0	2	-0.017	3	0	1	NC	1	NC	1
61	M7	1	max	0	5	0	7	-0.003	4	0	5	NC	7	NC	7
62			min	0	1	0	2	-0.017	3	0	1	NC	1	NC	1
63		2	max	0	5	0	7	-0.051	4	0	5	NC	7	1236.922	4
64			min	0	1	0	2	-0.3	3	0	1	NC	1	210.19	3
65		3	max	0	5	0	7	-0.071	4	0	5	NC	7	881.307	4
66			min	0	1	0	2	-0.414	3	0	1	NC	1	149.76	3
67		4	max	0	5	0	7	-0.051	4	0	5	NC	7	1236.922	4
68			min	0	1	0	2	-0.297	3	0	1	NC	1	210.19	3
69		5	max	0	7	0	7	-0.002	4	0	5	NC	7	NC	7
70			min	0	1	0	1	-0.01	3	0	1	NC	1	NC	1
71	M8	1	max	0	7	0	7	-0.002	4	0	5	NC	7	NC	7
72			min	0	1	0	1	-0.01	3	0	1	NC	1	NC	1
73		2	max	0	4	0.004	5	-0.025	4	0.001	5	NC	7	3416.013	4
74			min	0	3	0	1	-0.079	3	0	1	NC	1	1247.47	3
75		3	max	0	4	0.008	5	-0.043	4	0.003	5	NC	7	2218.128	4
76			min	0	3	0	1	-0.135	3	0.001	1	NC	1	790.486	3
77		4	max	0	4	0.011	5	-0.052	4	0.004	5	NC	7	2673.052	4
78			min	0	3	0.001	1	-0.169	3	0.001	1	NC	1	920.352	3
79		5	max	0	4	0.013	5	-0.051	4	0.005	5	NC	7	NC	7
80			min	0	3	0.001	1	-0.169	3	0.001	1	NC	1	NC	1
81	M9	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
82			min	0	1	0	1	0	1	0	1	NC	1	NC	1
83		2	max	0	4	0.002	5	-0.001	4	0	7	NC	7	NC	7
84			min	-0.002	3	0	1	-0.002	3	0	1	NC	1	NC	1
85		3	max	-0.001	4	0.004	5	-0.001	4	0	7	NC	7	NC	7
86			min	-0.004	3	0.001	1	-0.003	3	0	1	NC	1	NC	1
87		4	max	-0.001	4	0.003	5	-0.001	4	0	7	NC	7	NC	7
88			min	-0.006	3	0	1	-0.003	3	0	1	NC	1	NC	1
89		5	max	-0.002	4	0	7	0	7	0	7	NC	7	NC	7
90			min	-0.008	3	0	1	0	1	0	1	NC	1	NC	1
91	M10	1	max	0	7	0	7	0	7	0	5	NC	7	NC	7
92			min	0	1	0	1	0	1	0	1	NC	1	NC	1
93		2	max	-0.001	4	0.004	5	0	4	0	5	NC	7	NC	7
94			min	-0.004	3	0	1	0	2	0	1	NC	1	NC	1
95		3	max	-0.001	4	0.006	5	0.001	4	0	5	NC	7	NC	7
96			min	-0.008	3	0	1	-0.001	2	0	1	NC	1	NC	1
97		4	max	-0.002	4	0.005	5	0.001	4	0	5	NC	7	NC	7
98			min	-0.011	3	0	1	-0.001	2	0	1	NC	1	NC	1
99		5	max	-0.002	4	0	4	0	2	0	5	NC	7	NC	7

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
100			min	-0.015	3	0	3	0	1	0	1	NC	1	NC	1
101	M11	1	max	0	7	0	7	-0.002	4	0	5	NC	7	NC	7
102			min	0	1	0	1	-0.008	3	0	1	NC	1	NC	1
103		2	max	0	5	0	6	-0.051	4	0	5	NC	7	1228.242	4
104			min	0	1	0	3	-0.3	3	0	1	NC	1	207.45	3
105		3	max	0	5	0	4	-0.071	4	0	5	NC	7	875.139	4
106			min	0	1	0	3	-0.418	3	0	1	NC	1	147.813	3
107		4	max	0	5	0	4	-0.052	4	0	5	NC	7	1228.303	4
108			min	0	1	0	3	-0.304	3	0	1	NC	1	207.469	3
109		5	max	0	5	0	4	-0.003	4	0	5	NC	7	NC	7
110			min	0	1	0	3	-0.017	3	0	1	NC	1	NC	1
111	M12	1	max	0	4	0.013	5	-0.051	4	0.005	5	NC	7	NC	7
112			min	0	3	0.001	1	-0.169	3	0.001	1	NC	1	NC	1
113		2	max	0	4	0.012	5	-0.044	4	0.004	5	NC	6	5169.456	4
114			min	0	3	0.001	1	-0.148	3	0.001	1	9036.629	3	1461.411	3
115		3	max	0	4	0.009	5	-0.032	4	0.003	5	NC	6	4489.857	4
116			min	0	3	0.001	1	-0.113	3	0.001	1	7907.051	3	1256.802	3
117		4	max	0	4	0.005	5	-0.018	4	0.002	5	NC	7	7143.406	4
118			min	0	3	0	1	-0.069	3	0	1	NC	1	1984.725	3
119		5	max	0	5	0	2	-0.003	4	0	5	NC	7	NC	7
120			min	0	2	0	1	-0.019	3	0	1	NC	1	NC	1
121	M13	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
122			min	0	1	0	1	0	1	0	1	NC	1	NC	1
123		2	max	-0.001	4	0	5	0	4	0	7	NC	7	NC	7
124			min	-0.004	3	0	1	-0.004	3	0	1	NC	1	NC	1
125		3	max	-0.002	4	0.001	5	0	4	0	7	NC	7	NC	7
126			min	-0.008	3	0	1	-0.006	3	0	1	NC	1	NC	1
127		4	max	-0.002	4	0	5	0	4	0	7	NC	7	NC	7
128			min	-0.013	3	0	1	-0.005	3	0	1	NC	1	NC	1
129		5	max	-0.003	4	0	4	0	5	0	7	NC	7	NC	7
130			min	-0.017	3	0	3	0	1	0	1	NC	1	NC	1
131	M14	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
132			min	0	1	0	1	0	1	0	1	NC	1	NC	1
133		2	max	-0.001	4	0	5	0	4	0	7	NC	7	NC	7
134			min	-0.004	3	0	1	-0.004	3	0	1	NC	1	NC	1
135		3	max	-0.002	4	0	5	0	4	0	7	NC	7	NC	7
136			min	-0.008	3	0	1	-0.006	3	0	1	NC	1	NC	1
137		4	max	-0.002	4	0	5	0	4	0	7	NC	7	NC	7
138			min	-0.012	3	0	1	-0.005	3	0	1	NC	1	NC	1
139		5	max	-0.003	4	0	4	0	2	0	7	NC	7	NC	7
140			min	-0.017	3	0	3	0	7	0	1	NC	1	NC	1
141	M15	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
142			min	0	1	0	1	0	1	0	1	NC	1	NC	1
143		2	max	-0.001	4	0.001	5	0	4	0	7	NC	7	NC	7
144			min	-0.007	3	0	1	0	2	0	1	NC	1	NC	1
145		3	max	-0.002	4	0.001	5	0	4	0	7	NC	7	NC	7
146			min	-0.014	3	0	1	0	2	0	1	NC	1	NC	1
147		4	max	-0.002	4	0.001	5	0	4	0	7	NC	7	NC	7
148			min	-0.021	3	0	1	0	2	0	1	NC	1	NC	1
149		5	max	-0.003	4	0	4	0	5	0	7	NC	7	NC	7
150			min	-0.029	3	0	3	0	6	0	1	NC	1	NC	1
151	M16	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
152			min	0	1	0	1	0	1	0	1	NC	1	NC	1
153		2	max	-0.001	4	0.001	5	0	4	0	7	NC	7	NC	7
154			min	-0.007	3	0	1	0	3	0	1	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
155		3	max	-0.002	4	0.001	5	0	4	0	7	NC	7	NC	7
156			min	-0.014	3	0	1	0	3	0	1	NC	1	NC	1
157		4	max	-0.002	4	0.001	5	0	4	0	7	NC	7	NC	7
158			min	-0.022	3	0	1	0	3	0	1	NC	1	NC	1
159		5	max	-0.003	4	0	4	0	5	0	7	NC	7	NC	7
160			min	-0.029	3	0	3	0	2	0	1	NC	1	NC	1
161	M17	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
162			min	0	1	0	1	0	1	0	1	NC	1	NC	1
163		2	max	-0.001	4	0	4	0.004	5	0	7	NC	7	NC	7
164			min	-0.004	3	0	3	0	1	0	1	NC	1	NC	1
165		3	max	-0.002	4	0	4	0.006	5	0	7	NC	7	NC	7
166			min	-0.008	3	0	3	0	1	0	1	NC	1	NC	1
167		4	max	-0.002	4	0	4	0.005	5	0	7	NC	7	NC	7
168			min	-0.013	3	0	3	0	1	0	1	NC	1	NC	1
169		5	max	-0.003	4	0	4	0	4	0	7	NC	7	NC	7
170			min	-0.017	3	0	3	0	2	0	1	NC	1	NC	1
171	M18	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
172			min	0	1	0	1	0	1	0	1	NC	1	NC	1
173		2	max	-0.001	4	0	4	0.003	5	0	7	NC	7	NC	7
174			min	-0.002	3	-0.002	3	0	1	0	1	NC	1	NC	1
175		3	max	-0.001	4	0	4	0.005	5	0	7	NC	7	NC	7
176			min	-0.005	3	-0.004	3	0	1	0	1	NC	1	NC	1
177		4	max	-0.002	4	0	4	0.004	5	0	7	NC	7	NC	7
178			min	-0.007	3	-0.003	3	0	1	0	1	NC	1	NC	1
179		5	max	-0.002	4	0	7	0	7	0	7	NC	7	NC	7
180			min	-0.01	3	0	1	0	1	0	1	NC	1	NC	1
181	M19	1	max	0	2	0	4	-0.003	4	0	5	NC	7	NC	7
182			min	0	1	0	3	-0.017	3	0	1	NC	1	NC	1
183		2	max	0	2	0	2	-0.007	4	0	5	NC	7	NC	4
184			min	0	1	0	3	-0.042	3	0	1	NC	1	2781.414	3
185		3	max	0	2	0	2	-0.009	4	0	5	NC	7	NC	4
186			min	0	1	0	3	-0.058	3	0	1	NC	1	1753.43	3
187		4	max	0	2	0	2	-0.008	4	0	5	NC	7	NC	4
188			min	0	1	0	3	-0.057	3	0	1	NC	1	2027.197	3
189		5	max	0	6	0	2	-0.004	4	0	5	NC	7	NC	7
190			min	0	3	0	3	-0.032	3	0	1	NC	1	NC	1
191	M20	1	max	0	4	0	4	-0.003	4	0	5	NC	7	NC	7
192			min	0	3	0	2	-0.017	3	0	1	NC	1	NC	1
193		2	max	0	4	0	4	-0.051	4	0	5	NC	7	1238.177	4
194			min	0	3	0	2	-0.302	3	0	1	NC	1	210.589	3
195		3	max	0	4	0	4	-0.071	4	0	5	NC	7	882.201	4
196			min	0	3	0	2	-0.417	3	0	1	NC	1	150.045	3
197		4	max	0	4	0	4	-0.051	4	0	5	NC	7	1238.177	4
198			min	0	3	0	2	-0.302	3	0	1	NC	1	210.589	3
199		5	max	0	4	0	4	-0.003	4	0	5	NC	7	NC	7
200			min	0	3	0	2	-0.017	3	0	1	NC	1	NC	1
201	M21	1	max	0	4	0	5	-0.003	4	0	5	NC	7	NC	7
202			min	0	3	0	2	-0.017	3	0	1	NC	1	NC	1
203		2	max	0	4	0	4	-0.051	4	0	5	NC	7	1238.177	4
204			min	0	3	0	2	-0.302	3	0	1	NC	1	210.589	3
205		3	max	0	4	0	4	-0.071	4	0	5	NC	7	882.201	4
206			min	0	3	0	2	-0.417	3	0	1	NC	1	150.045	3
207		4	max	0	4	0	4	-0.051	4	0	5	NC	7	1238.177	4
208			min	0	3	0	2	-0.302	3	0	1	NC	1	210.589	3
209		5	max	0	4	0	4	-0.003	4	0	5	NC	7	NC	7

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
210			min	0	3	0	2	-0.017	3	0	1	NC	1	NC	1
211	M22	1	max	0	7	0	7	-0.002	4	0	5	NC	7	NC	7
212			min	0	1	0	1	-0.01	3	0	1	NC	1	NC	1
213		2	max	0	4	0	5	-0.051	4	0	5	NC	7	1243.396	4
214			min	0	3	0	2	-0.294	3	0	1	NC	1	212.256	3
215		3	max	0	4	0	5	-0.07	4	0	5	NC	7	885.728	4
216			min	0	3	0	2	-0.41	3	0	1	NC	1	151.171	3
217		4	max	0	4	0	5	-0.051	4	0	5	NC	7	1242.88	4
218			min	0	3	0	2	-0.298	3	0	1	NC	1	212.091	3
219		5	max	0	4	0	5	-0.003	4	0	5	NC	7	NC	7
220			min	0	3	0	2	-0.017	3	0	1	NC	1	NC	1
221	M23	1	max	0	2	0	4	-0.003	4	0	4	NC	7	NC	7
222			min	0	1	0	3	-0.017	3	0	3	NC	1	NC	1
223		2	max	0	2	0	2	-0.007	4	0	4	NC	7	NC	4
224			min	0	1	0	3	-0.042	3	0	3	NC	1	2782.589	3
225		3	max	0	2	0	2	-0.009	4	0	4	NC	7	NC	4
226			min	0	1	0	3	-0.058	3	0	3	NC	1	1754.178	3
227		4	max	0	2	0	2	-0.008	4	0	4	NC	7	NC	4
228			min	0	1	0	3	-0.058	3	0	3	NC	1	2028.071	3
229		5	max	0	2	0	2	-0.004	4	0	4	NC	7	NC	7
230			min	0	3	0	3	-0.032	3	0	3	NC	1	NC	1
231	M24	1	max	0	2	0	4	-0.003	4	0	5	NC	7	NC	7
232			min	0	3	0	3	-0.017	3	0	1	NC	1	NC	1
233		2	max	0	2	0	2	-0.007	4	0	5	NC	7	NC	4
234			min	0	3	0	3	-0.042	3	0	1	NC	1	2755.574	3
235		3	max	0	2	0	2	-0.009	4	0	5	NC	7	NC	4
236			min	0	3	-0.001	3	-0.058	3	0	1	NC	1	1737.002	3
237		4	max	0	2	0	2	-0.008	4	0	5	NC	7	NC	4
238			min	0	1	-0.001	3	-0.058	3	0	1	NC	1	2007.984	3
239		5	max	0	2	0	2	-0.004	4	0	5	NC	7	NC	7
240			min	0	3	0	3	-0.033	3	0	1	NC	1	NC	1
241	M25	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
242			min	0	1	0	1	0	1	0	1	NC	1	NC	1
243		2	max	-0.001	4	0.002	5	0.002	2	0	7	NC	7	NC	7
244			min	-0.002	3	0	1	0	1	0	1	NC	1	NC	1
245		3	max	-0.001	4	0.003	5	0.004	2	0	7	NC	7	NC	7
246			min	-0.005	3	0	1	-0.001	1	0	1	NC	1	NC	1
247		4	max	-0.002	4	0.003	5	0.003	2	0	7	NC	7	NC	7
248			min	-0.007	3	0	1	-0.001	1	0	1	NC	1	NC	1
249		5	max	-0.002	4	0	7	0	7	0	7	NC	7	NC	7
250			min	-0.009	3	0	1	0	1	0	1	NC	1	NC	1
251	M26	1	max	0	7	0	7	-0.002	4	0	5	NC	7	NC	7
252			min	0	1	0	1	-0.009	3	0	1	NC	1	NC	1
253		2	max	0	7	0	2	-0.018	2	0	5	NC	7	6637.572	2
254			min	0	1	0	3	-0.045	3	0	1	NC	1	1748.986	3
255		3	max	0	4	0	2	-0.025	2	0	5	NC	7	4148.482	2
256			min	0	2	0	3	-0.063	3	0	1	NC	1	1192.838	3
257		4	max	0	4	0	2	-0.025	2	0	5	NC	7	4741.123	2
258			min	0	2	0	3	-0.055	3	0	1	NC	1	1550.931	3
259		5	max	0	4	0	4	-0.005	4	0	5	NC	7	NC	7
260			min	0	2	0	3	-0.019	3	0	1	NC	1	NC	1
261	M27	1	max	0	4	0	4	-0.003	4	0	5	NC	7	NC	7
262			min	0	3	0	2	-0.017	3	0	1	NC	1	NC	1
263		2	max	0	4	0	4	-0.051	4	0	2	NC	7	1238.177	4
264			min	0	3	0	2	-0.3	3	0	1	NC	1	210.589	3

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
265		3	max	0	4	0	4	-0.071	4	0	2	NC	7	882.201	4
266			min	0	3	0	2	-0.413	3	0	1	NC	1	150.045	3
267		4	max	0	4	0	4	-0.051	4	0	2	NC	7	1238.177	4
268			min	0	3	0	2	-0.296	3	0	1	NC	1	210.589	3
269		5	max	0	7	0	7	-0.002	4	0	2	NC	7	NC	7
270			min	0	1	0	1	-0.009	3	0	1	NC	1	NC	1
271	M28	1	max	0	5	0	2	-0.003	4	0	5	NC	7	NC	7
272			min	0	2	0	1	-0.019	3	0	1	NC	1	NC	1
273		2	max	0	5	0	5	-0.004	4	0	5	NC	7	NC	7
274			min	0	2	0	1	-0.021	3	0	1	NC	1	NC	1
275		3	max	0	5	0	5	-0.004	4	0	5	NC	7	NC	7
276			min	0	2	0	2	-0.023	3	0	1	NC	1	NC	1
277		4	max	0	5	0	5	-0.005	4	0.001	5	NC	7	NC	7
278			min	0	2	0	2	-0.025	3	0	1	NC	1	NC	1
279		5	max	0	5	0	5	-0.006	4	0.001	5	NC	7	NC	7
280			min	0	2	0	2	-0.027	3	0	1	NC	1	NC	1
281	M29	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
282			min	0	1	0	1	0	1	0	1	NC	1	NC	1
283		2	max	-0.001	4	0	5	0.004	5	0	7	NC	7	NC	7
284			min	-0.004	3	0	1	0	1	0	1	NC	1	NC	1
285		3	max	-0.002	4	0	5	0.006	5	0	7	NC	7	NC	7
286			min	-0.008	3	0	1	0	1	0	1	NC	1	NC	1
287		4	max	-0.002	4	0	5	0.005	5	0	7	NC	7	NC	7
288			min	-0.013	3	0	1	0	1	0	1	NC	1	NC	1
289		5	max	-0.003	4	0	4	0	4	0	7	NC	7	NC	7
290			min	-0.017	3	0	3	0	2	0	1	NC	1	NC	1
291	M30	1	max	0	7	0	7	0	7	0	7	NC	7	NC	7
292			min	0	1	0	1	0	1	0	1	NC	1	NC	1
293		2	max	-0.001	4	0	5	0.004	5	0	7	NC	7	NC	7
294			min	-0.004	3	0	1	0	1	0	1	NC	1	NC	1
295		3	max	-0.002	4	0	5	0.006	5	0	7	NC	7	NC	7
296			min	-0.008	3	0	1	0	1	0	1	NC	1	NC	1
297		4	max	-0.002	4	0	5	0.005	5	0	7	NC	7	NC	7
298			min	-0.013	3	0	1	0	1	0	1	NC	1	NC	1
299		5	max	-0.003	4	0	4	0	5	0	7	NC	7	NC	7
300			min	-0.017	3	0	3	0	2	0	1	NC	1	NC	1
301	M31	1	max	0.119	5	-0.038	4	0	4	-0.001	4	NC	7	NC	7
302			min	0.033	1	-0.122	3	0	3	-0.002	3	NC	1	NC	1
303		2	max	0.119	5	-0.034	4	0.005	5	0	4	NC	7	NC	6
304			min	0.033	1	-0.109	3	0.001	1	-0.001	3	NC	1	5456.069	3
305		3	max	0.119	5	-0.03	4	0.009	5	0	2	NC	7	NC	4
306			min	0.033	1	-0.096	3	0.001	1	0	1	NC	1	3410.043	3
307		4	max	0.119	5	-0.026	4	0.01	5	0.001	5	NC	7	NC	6
308			min	0.033	1	-0.083	3	0.001	1	0	1	NC	1	3897.192	3
309		5	max	0.119	5	-0.022	4	0.009	5	0.002	5	NC	7	NC	7
310			min	0.033	1	-0.069	3	0.001	1	0	1	NC	1	NC	1
311	M32	1	max	0.089	5	-0.036	4	0	5	0.001	5	NC	7	NC	7
312			min	0.031	1	-0.096	3	0	1	0	2	NC	1	NC	1
313		2	max	0.089	5	-0.032	4	0	4	0	4	NC	7	NC	6
314			min	0.031	1	-0.087	3	-0.001	3	0	2	NC	1	5008.654	3
315		3	max	0.089	5	-0.028	4	0	4	0	4	NC	7	NC	4
316			min	0.031	1	-0.077	3	-0.001	3	-0.001	2	NC	1	3130.409	3
317		4	max	0.089	5	-0.024	4	0.002	5	0	4	NC	7	NC	6
318			min	0.031	1	-0.067	3	0	1	-0.001	3	NC	1	3577.61	3
319		5	max	0.089	5	-0.021	4	0.009	5	0	4	NC	7	NC	7

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
320			min	0.031	1	-0.057	3	0.001	1	-0.002	3	NC	1	NC	1
321	M33	1	max	0.119	5	-0.022	4	0.009	5	0.002	5	NC	7	NC	7
322			min	0.033	1	-0.069	3	0.001	1	0	1	NC	1	NC	1
323		2	max	0.119	5	-0.018	4	0.008	5	0.002	5	NC	7	NC	6
324			min	0.033	1	-0.056	3	0.001	1	0	1	NC	1	6620.545	3
325		3	max	0.119	5	-0.013	4	0.013	5	0.002	5	NC	7	NC	7
326			min	0.033	1	-0.042	3	0.001	1	0	1	NC	1	NC	1
327		4	max	0.119	5	-0.009	4	0.018	5	0.002	5	NC	7	NC	6
328			min	0.033	1	-0.027	3	0.002	1	0	1	NC	1	6652.333	3
329		5	max	0.119	5	-0.005	4	0.018	5	0.002	5	NC	7	NC	7
330			min	0.033	1	-0.013	3	0.001	1	0	1	NC	1	NC	1
331	M34	1	max	0.089	5	-0.021	4	0.009	5	0	4	NC	7	NC	7
332			min	0.031	1	-0.057	3	0.001	1	-0.002	3	NC	1	NC	1
333		2	max	0.089	5	-0.017	4	0.013	5	0	4	NC	7	NC	6
334			min	0.031	1	-0.047	3	0.001	1	-0.002	3	NC	1	6492.044	3
335		3	max	0.089	5	-0.013	4	0.013	5	0	4	NC	7	NC	7
336			min	0.031	1	-0.036	3	0.001	1	-0.002	3	NC	1	NC	1
337		4	max	0.089	5	-0.008	4	0.013	5	0	4	NC	7	NC	6
338			min	0.031	1	-0.025	3	0.001	1	-0.002	3	NC	1	6499.826	3
339		5	max	0.089	5	-0.004	4	0.018	5	0	4	NC	7	NC	7
340			min	0.031	1	-0.014	3	0.001	1	-0.002	3	NC	1	NC	1
341	M35	1	max	0.089	5	-0.004	4	0.018	5	0	4	NC	7	NC	7
342			min	0.031	1	-0.014	3	0.001	1	-0.002	3	NC	1	NC	1
343		2	max	0.089	5	0	4	0.023	5	0	4	NC	7	NC	6
344			min	0.031	1	-0.003	2	0.002	1	-0.002	3	NC	1	6649.963	3
345		3	max	0.089	5	0.009	5	0.023	5	0	4	NC	7	NC	7
346			min	0.031	1	0.004	1	0.002	1	-0.002	3	NC	1	NC	1
347		4	max	0.089	5	0.02	5	0.023	5	0	4	NC	7	NC	6
348			min	0.031	1	0.008	1	0.002	1	-0.002	3	NC	1	6646.669	3
349		5	max	0.089	5	0.03	5	0.028	5	0	4	NC	7	NC	7
350			min	0.031	1	0.011	1	0.002	1	-0.002	3	NC	1	NC	1
351	M36	1	max	0.119	5	-0.005	4	0.018	5	0.002	5	NC	7	NC	7
352			min	0.033	1	-0.013	3	0.001	1	0	1	NC	1	NC	1
353		2	max	0.119	5	0.002	5	0.018	5	0.002	5	NC	7	NC	6
354			min	0.033	1	-0.001	2	0.001	1	0	1	NC	1	6491.166	3
355		3	max	0.119	5	0.016	5	0.023	5	0.002	5	NC	7	NC	7
356			min	0.033	1	0.004	1	0.002	1	0	1	NC	1	NC	1
357		4	max	0.119	5	0.031	5	0.028	5	0.002	5	NC	7	NC	6
358			min	0.033	1	0.008	1	0.002	1	0	1	NC	1	6494.237	3
359		5	max	0.119	5	0.044	5	0.028	5	0.002	5	NC	7	NC	7
360			min	0.033	1	0.012	1	0.002	1	0	1	NC	1	NC	1
361	M37	1	max	0.089	5	0.03	5	0.028	5	0	4	NC	7	NC	7
362			min	0.031	1	0.011	1	0.002	1	-0.002	3	NC	1	NC	1
363		2	max	0.089	5	0.04	5	0.033	5	0	4	4480.136	4	NC	6
364			min	0.031	1	0.015	1	0.003	1	-0.002	3	1592.437	3	3158.719	3
365		3	max	0.089	5	0.049	5	0.033	5	0	4	2352.038	4	NC	6
366			min	0.031	1	0.018	1	0.002	1	-0.002	3	841.832	3	2927.487	3
367		4	max	0.089	5	0.056	5	0.033	5	0	4	1666.287	4	NC	6
368			min	0.031	1	0.021	1	0.002	1	-0.001	3	603.195	3	2729.832	3
369		5	max	0.089	5	0.062	5	0.038	5	0	4	1347.537	4	NC	4
370			min	0.031	1	0.023	1	0.003	1	-0.001	3	496.127	3	1466.086	3
371	M38	1	max	0.119	5	0.044	5	0.028	5	0.002	5	NC	7	NC	7
372			min	0.033	1	0.012	1	0.002	1	0	1	NC	1	NC	1
373		2	max	0.118	5	0.057	5	0.028	5	0.002	5	4145.033	4	NC	7
374			min	0.033	1	0.016	1	0.002	1	0	1	1196.826	3	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
375		3	max	0.118	5	0.069	5	0.033	5	0.002	5	2168.117	4	NC	6
376			min	0.033	1	0.019	1	0.002	1	0	1	624.237	3	2943.816	3
377		4	max	0.118	5	0.08	5	0.038	5	0.002	5	1528.602	4	NC	4
378			min	0.033	1	0.022	1	0.003	1	0	1	439.145	3	1496.555	3
379		5	max	0.118	5	0.089	5	0.038	5	0.003	5	1228.352	4	NC	4
380			min	0.033	1	0.025	1	0.003	1	0	1	352.267	3	1469.333	3
381	M39	1	max	0.089	5	0.062	5	0.038	5	0	4	NC	7	NC	7
382			min	0.031	1	0.023	1	0.003	1	-0.001	3	NC	1	NC	1
383		2	max	0.089	5	0.065	5	0.043	5	0	4	NC	4	NC	4
384			min	0.031	1	0.024	1	0.003	1	-0.001	3	5342.708	3	3508.694	3
385		3	max	0.089	5	0.066	5	0.041	5	0	4	9009.179	2	NC	6
386			min	0.031	1	0.025	1	0.003	1	0	3	3720.528	3	5128.738	3
387		4	max	0.089	5	0.066	5	0.038	5	0	2	NC	2	NC	7
388			min	0.031	1	0.026	1	0.003	1	0	1	3654.067	3	NC	1
389		5	max	0.089	5	0.065	5	0.038	5	0.001	5	NC	2	NC	7
390			min	0.031	1	0.026	1	0.003	1	0	1	4341.344	3	NC	1
391	M40	1	max	0.118	5	0.088	5	0.038	5	0.003	5	NC	7	NC	7
392			min	0.033	1	0.025	1	0.003	1	0	1	NC	1	NC	1
393		2	max	0.119	5	0.095	5	0.036	5	0.002	5	8880.904	4	NC	6
394			min	0.033	1	0.027	1	0.002	1	0	1	2517.645	3	6163.859	3
395		3	max	0.119	5	0.099	5	0.035	5	0.002	5	5217.26	4	NC	6
396			min	0.033	1	0.028	1	0.002	1	0	1	1479.407	3	5315.97	3
397		4	max	0.119	5	0.102	5	0.036	5	0.001	5	4118.389	4	NC	6
398			min	0.033	1	0.029	1	0.003	1	0	1	1171.172	3	8388.209	3
399		5	max	0.119	5	0.103	5	0.038	5	0.001	5	3685.584	4	NC	7
400			min	0.033	1	0.029	1	0.003	1	0	1	1054.644	3	NC	1
401	M41	1	max	0.089	5	0.066	5	0.038	5	0.001	5	NC	7	NC	7
402			min	0.031	1	0.026	1	0.003	1	0	1	NC	1	NC	1
403		2	max	0.089	5	0.065	5	0.038	5	0	2	NC	7	NC	7
404			min	0.031	1	0.026	1	0.003	1	0	1	NC	1	NC	1
405		3	max	0.089	5	0.064	5	0.035	5	0	4	NC	7	NC	6
406			min	0.031	1	0.026	1	0.002	1	0	7	NC	1	5197.602	3
407		4	max	0.089	5	0.063	5	0.034	5	0	4	NC	7	NC	6
408			min	0.031	1	0.026	1	0.002	1	-0.001	3	NC	1	3544.895	3
409		5	max	0.09	5	0.062	5	0.038	5	0	4	NC	7	NC	7
410			min	0.031	1	0.026	1	0.003	1	-0.001	3	NC	1	NC	1
411	M42	1	max	0.118	5	0.103	5	0.038	5	0.001	5	NC	7	NC	7
412			min	0.033	1	0.029	1	0.003	1	0	1	NC	1	NC	1
413		2	max	0.119	5	0.104	5	0.04	5	0.001	5	NC	7	NC	6
414			min	0.033	1	0.029	1	0.003	1	0	1	NC	1	8211.766	3
415		3	max	0.119	5	0.104	5	0.041	5	0.002	5	NC	7	NC	6
416			min	0.033	1	0.029	1	0.003	1	0	1	NC	1	5204.399	3
417		4	max	0.119	5	0.103	5	0.041	5	0.002	5	NC	7	NC	6
418			min	0.033	1	0.029	1	0.003	1	0	1	NC	1	6008.127	3
419		5	max	0.119	5	0.102	5	0.038	5	0.003	5	NC	7	NC	7
420			min	0.033	1	0.029	1	0.003	1	0	1	NC	1	NC	1
421	M43	1	max	0.09	5	0.062	5	0.038	5	0	4	NC	7	NC	7
422			min	0.031	1	0.026	1	0.003	1	-0.001	3	NC	1	NC	1
423		2	max	0.09	5	0.062	5	0.041	5	0	4	NC	7	NC	6
424			min	0.031	1	0.026	1	0.003	1	-0.001	3	NC	1	5779.499	3
425		3	max	0.09	5	0.062	5	0.036	5	0	4	NC	7	NC	7
426			min	0.031	1	0.025	1	0.002	1	-0.002	3	NC	1	NC	1
427		4	max	0.09	5	0.063	5	0.033	5	0	4	NC	7	NC	4
428			min	0.031	1	0.025	1	0.002	1	-0.002	3	NC	1	3114.887	3
429		5	max	0.09	5	0.064	5	0.038	5	0	4	NC	7	NC	7

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
430			min	0.031	1	0.025	1	0.003	1	-0.002	3	NC	1	NC	1
431	M44	1	max	0.119	5	0.102	5	0.038	5	0.003	5	NC	7	NC	7
432			min	0.033	1	0.029	1	0.003	1	0	1	NC	1	NC	1
433		2	max	0.119	5	0.1	5	0.037	5	0.003	5	NC	7	NC	7
434			min	0.033	1	0.029	1	0.002	1	0	1	NC	1	NC	1
435		3	max	0.119	5	0.099	5	0.039	5	0.003	5	NC	7	NC	7
436			min	0.033	1	0.028	1	0.003	1	0	1	NC	1	9999.38	3
437		4	max	0.119	5	0.099	5	0.041	5	0.003	5	NC	7	NC	6
438			min	0.033	1	0.028	1	0.003	1	0	1	NC	1	4840.957	3
439		5	max	0.119	5	0.098	5	0.038	5	0.004	5	NC	7	NC	7
440			min	0.033	1	0.028	1	0.003	1	0	1	NC	1	NC	1
441	M45	1	max	0.09	5	0.064	5	0.038	5	0	4	NC	7	6193.783	4
442			min	0.031	1	0.025	1	0.003	1	-0.002	3	NC	1	413.336	3
443		2	max	0.09	5	0.066	5	0.042	5	0	4	NC	6	4929.85	4
444			min	0.031	1	0.025	1	0.003	1	-0.002	3	7550.243	3	369.567	3
445		3	max	0.089	5	0.069	5	0.035	5	0	4	NC	6	5741.767	4
446			min	0.031	1	0.026	1	0.003	1	-0.002	3	3397.355	3	448.758	3
447		4	max	0.089	5	0.072	5	0.019	5	0	4	NC	4	NC	4
448			min	0.031	1	0.026	1	0.002	1	-0.002	3	2100.054	3	805.461	3
449		5	max	0.089	5	0.075	5	0	7	0	4	NC	4	NC	7
450			min	0.031	1	0.026	1	0	1	-0.002	3	1496.75	3	NC	1
451	M46	1	max	0.119	5	0.098	5	0.038	5	0.004	5	NC	7	6195.792	4
452			min	0.033	1	0.028	1	0.003	1	0	1	NC	1	413.407	3
453		2	max	0.119	5	0.098	5	0.03	5	0.004	5	NC	7	9388.681	4
454			min	0.033	1	0.028	1	0.002	1	0	1	NC	1	522.974	3
455		3	max	0.119	5	0.098	5	0.021	5	0.004	5	NC	7	NC	4
456			min	0.033	1	0.028	1	0.001	1	0	1	NC	1	756.772	3
457		4	max	0.119	5	0.099	5	0.011	5	0.004	5	NC	7	NC	4
458			min	0.033	1	0.028	1	0	1	0	1	NC	1	1482.154	3
459		5	max	0.119	5	0.099	5	0	7	0.004	5	NC	7	NC	7
460			min	0.033	1	0.028	1	0	1	0	1	NC	1	NC	1
461	M47	1	max	-0.001	4	0.032	5	0.101	5	-0.001	4	NC	7	NC	7
462			min	-0.009	3	0.011	1	0.036	1	-0.003	3	NC	1	NC	1
463		2	max	-0.001	4	0.036	5	0.135	5	-0.001	4	NC	7	NC	4
464			min	-0.009	3	0.011	1	0.04	1	-0.003	3	NC	1	1756.666	3
465		3	max	-0.001	4	0.039	5	0.154	5	-0.001	4	NC	7	9301.822	4
466			min	-0.009	3	0.011	1	0.042	1	-0.003	3	NC	1	1249.186	3
467		4	max	-0.001	4	0.043	5	0.15	5	-0.001	4	NC	7	NC	4
468			min	-0.009	3	0.011	1	0.041	1	-0.003	3	NC	1	1754.403	3
469		5	max	-0.001	4	0.047	5	0.129	5	-0.001	4	NC	7	NC	7
470			min	-0.009	3	0.012	1	0.038	1	-0.003	3	NC	1	NC	1
471	M48	1	max	-0.001	4	0.06	5	0.068	5	-0.001	4	NC	7	NC	7
472			min	-0.018	3	0.021	1	0.023	1	-0.003	3	NC	1	NC	1
473		2	max	-0.001	4	0.066	5	0.099	5	-0.001	4	NC	7	NC	4
474			min	-0.018	3	0.022	1	0.027	1	-0.003	3	NC	1	1757.762	3
475		3	max	-0.001	4	0.071	5	0.115	5	-0.001	4	NC	7	9206.784	4
476			min	-0.018	3	0.022	1	0.029	1	-0.003	3	NC	1	1250.437	3
477		4	max	-0.001	4	0.077	5	0.109	5	-0.001	4	NC	7	NC	4
478			min	-0.018	3	0.022	1	0.028	1	-0.003	3	NC	1	1757.772	3
479		5	max	-0.001	4	0.083	5	0.086	5	-0.001	4	NC	7	NC	7
480			min	-0.018	3	0.023	1	0.025	1	-0.004	3	NC	1	NC	1
481	M49	1	max	-0.002	4	0.088	5	0.034	5	-0.001	4	NC	7	NC	7
482			min	-0.028	3	0.031	1	0.011	1	-0.003	3	NC	1	NC	1
483		2	max	-0.002	4	0.096	5	0.063	5	-0.001	4	NC	7	NC	4
484			min	-0.028	3	0.032	1	0.015	1	-0.003	3	NC	1	1757.515	3

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
485		3	max	-0.002	4	0.104	5	0.076	5	-0.001	4	NC	7	9206.464	4
486			min	-0.028	3	0.032	1	0.017	1	-0.003	3	NC	1	1250.436	3
487		4	max	-0.002	4	0.112	5	0.067	5	-0.001	4	NC	7	NC	4
488			min	-0.028	3	0.033	1	0.016	1	-0.003	3	NC	1	1758.016	3
489		5	max	-0.002	4	0.119	5	0.042	5	-0.001	4	NC	7	NC	7
490			min	-0.028	3	0.033	1	0.012	1	-0.003	3	NC	1	NC	1
491	M50	1	max	-0.003	4	0.108	5	0.009	5	0	4	NC	7	NC	7
492			min	-0.038	3	0.039	1	0.002	1	-0.001	3	NC	1	NC	1
493		2	max	-0.003	4	0.118	5	0.036	5	0	4	NC	7	NC	4
494			min	-0.038	3	0.039	1	0.006	1	-0.001	3	NC	1	1762.185	3
495		3	max	-0.003	4	0.128	5	0.047	5	-0.001	4	NC	7	9223.175	4
496			min	-0.038	3	0.04	1	0.007	1	-0.002	3	NC	1	1253.87	3
497		4	max	-0.003	4	0.138	5	0.035	5	-0.001	4	NC	7	NC	4
498			min	-0.038	3	0.041	1	0.006	1	-0.002	3	NC	1	1763.302	3
499		5	max	-0.003	4	0.148	5	0.008	5	-0.001	4	NC	7	NC	7
500			min	-0.038	3	0.041	1	0.002	1	-0.002	3	NC	1	NC	1
501	M51	1	max	-0.003	4	0.111	5	0.007	2	0	2	NC	7	NC	7
502			min	-0.038	3	0.041	1	0	1	0	1	NC	1	NC	1
503		2	max	-0.003	4	0.122	5	0.006	5	0	2	NC	7	NC	7
504			min	-0.038	3	0.042	1	0.001	1	0	1	NC	1	NC	1
505		3	max	-0.003	4	0.134	5	0.004	5	0	2	NC	7	NC	7
506			min	-0.038	3	0.042	1	0.001	1	0	3	NC	1	NC	1
507		4	max	-0.003	4	0.146	5	0.001	6	0	4	NC	7	NC	7
508			min	-0.038	3	0.043	1	0	2	0	3	NC	1	NC	1
509		5	max	-0.003	4	0.157	5	-0.001	4	0	4	NC	7	NC	7
510			min	-0.038	3	0.044	1	-0.004	3	0	3	NC	1	NC	1
511	M52	1	max	-0.003	4	0.108	5	0.01	5	0	5	NC	7	NC	7
512			min	-0.038	3	0.04	1	0	1	0	1	NC	1	NC	1
513		2	max	-0.003	4	0.12	5	0.034	5	0	5	NC	7	NC	4
514			min	-0.038	3	0.041	1	0.004	1	0	1	NC	1	1762.455	3
515		3	max	-0.003	4	0.132	5	0.042	5	0	5	NC	7	9210.905	4
516			min	-0.038	3	0.042	1	0.005	1	0	1	NC	1	1251.329	3
517		4	max	-0.003	4	0.144	5	0.028	5	0	5	NC	7	NC	4
518			min	-0.038	3	0.043	1	0.003	1	0	1	NC	1	1755.734	3
519		5	max	-0.003	4	0.156	5	-0.001	4	0	5	NC	7	NC	7
520			min	-0.038	3	0.044	1	-0.002	3	0	1	NC	1	NC	1
521	M53	1	max	-0.003	4	0.11	5	0.008	5	0	4	NC	7	NC	7
522			min	-0.038	3	0.04	1	0.001	1	0	3	NC	1	NC	1
523		2	max	-0.003	4	0.121	5	0.047	5	0	4	NC	7	9761.368	4
524			min	-0.038	3	0.041	1	0.005	1	0	2	NC	1	1185.849	3
525		3	max	-0.003	4	0.132	5	0.062	5	0	4	NC	7	6936.876	4
526			min	-0.038	3	0.042	1	0.007	1	0	2	NC	1	841.905	3
527		4	max	-0.003	4	0.143	5	0.043	5	0	4	NC	7	9734.085	4
528			min	-0.038	3	0.043	1	0.005	1	0	2	NC	1	1180.273	3
529		5	max	-0.003	4	0.154	5	0.001	2	0	5	NC	7	NC	7
530			min	-0.038	3	0.044	1	0	1	0	1	NC	1	NC	1
531	M54	1	max	0	5	0.007	5	-0.048	4	0.004	5	NC	7	NC	7
532			min	0	1	0.001	1	-0.131	3	0.001	1	NC	1	NC	1
533		2	max	0	5	0.009	5	-0.049	4	0.003	5	NC	6	2880.8	4
534			min	0	1	0.001	1	-0.129	3	0.001	1	9213.058	3	1283.714	3
535		3	max	0	5	0.008	5	-0.04	4	0.002	5	NC	6	2380.964	4
536			min	0	1	0.001	1	-0.103	3	0.001	1	8061.426	3	1094.623	3
537		4	max	0	5	0.004	5	-0.023	4	0.001	5	NC	7	3656.727	4
538			min	0	1	0.001	1	-0.061	3	0	1	NC	1	1718.382	3
539		5	max	0	7	0	7	-0.002	4	0	5	NC	7	NC	7

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
540			min	0	1	0	1	-0.01	3	0	1	NC	1	NC	1
541	M55	1	max	0	7	0	7	0	7	0	4	NC	7	NC	7
542			min	0	1	0	1	0	1	-0.001	3	NC	1	NC	1
543		2	max	-0.001	4	-0.01	4	0.01	5	0	4	NC	7	NC	7
544			min	-0.002	3	-0.037	3	0.001	1	-0.001	3	NC	1	NC	1
545		3	max	-0.001	4	-0.021	4	0.019	5	0	4	NC	7	NC	7
546			min	-0.004	3	-0.074	3	0.001	1	-0.001	3	NC	1	NC	1
547		4	max	-0.002	4	-0.031	4	0.029	5	0	4	NC	7	NC	7
548			min	-0.006	3	-0.111	3	0.002	1	-0.001	3	NC	1	NC	1
549		5	max	-0.002	4	-0.041	4	0.038	5	0	4	NC	7	NC	7
550			min	-0.008	3	-0.148	3	0.003	1	-0.001	3	NC	1	NC	1
551	M56	1	max	0	7	0	7	0	7	0	4	NC	7	NC	7
552			min	0	1	0	1	0	1	-0.001	3	NC	1	NC	1
553		2	max	-0.001	4	-0.01	4	0.01	5	0	4	NC	7	NC	7
554			min	-0.002	3	-0.027	3	0.001	1	-0.001	3	NC	1	NC	1
555		3	max	-0.001	4	-0.019	4	0.019	5	0	4	NC	7	NC	7
556			min	-0.005	3	-0.054	3	0.001	1	-0.001	3	NC	1	NC	1
557		4	max	-0.002	4	-0.029	4	0.029	5	0	4	NC	7	NC	7
558			min	-0.007	3	-0.081	3	0.002	1	-0.001	3	NC	1	NC	1
559		5	max	-0.002	4	-0.039	4	0.038	5	0	4	NC	7	NC	7
560			min	-0.009	3	-0.108	3	0.003	1	-0.001	3	NC	1	NC	1
561	M57	1	max	0	4	0	7	-0.003	4	0	4	NC	7	NC	7
562			min	0	3	0	2	-0.029	3	0	3	NC	1	NC	1
563		2	max	0	4	0	7	-0.028	4	0	4	NC	7	2454.909	4
564			min	0	3	0	2	-0.281	3	0	2	NC	1	237.31	3
565		3	max	0	4	0	7	-0.038	4	0	4	NC	7	1746.562	4
566			min	0	3	0	6	-0.384	3	0	2	NC	1	168.82	3
567		4	max	0	4	0	5	-0.028	4	0	4	NC	7	2449.169	4
568			min	0	3	0	6	-0.282	3	0	2	NC	1	236.72	3
569		5	max	0	4	0	5	-0.003	4	0	4	NC	7	NC	7
570			min	0	3	0	6	-0.029	3	0	2	NC	1	NC	1
571	M58	1	max	0	4	0	5	-0.003	4	0	4	NC	7	NC	7
572			min	0	3	0	2	-0.029	3	0	3	NC	1	NC	1
573		2	max	0	4	0	5	-0.028	4	0	4	NC	7	2455.416	4
574			min	0	3	0	2	-0.281	3	0	3	NC	1	237.363	3
575		3	max	0	4	0	5	-0.038	4	0	4	NC	7	1746.904	4
576			min	0	3	0	2	-0.384	3	0	3	NC	1	168.856	3
577		4	max	0	4	0	5	-0.028	4	0	4	NC	7	2449.576	4
578			min	0	3	0	2	-0.282	3	0	3	NC	1	236.762	3
579		5	max	0	4	0	7	-0.003	4	0	4	NC	7	NC	7
580			min	0	3	0	2	-0.029	3	0	3	NC	1	NC	1
581	M59	1	max	0	4	0	5	-0.003	4	0	5	NC	7	NC	7
582			min	0	2	0	2	-0.019	3	0	1	NC	1	NC	1
583		2	max	0	4	0	5	-0.028	4	0	5	NC	7	2419.048	4
584			min	0	2	0	2	-0.278	3	0	1	NC	1	233.628	3
585		3	max	0	4	0	5	-0.038	4	0	5	NC	7	1722.308	4
586			min	0	2	0	2	-0.385	3	0	1	NC	1	166.33	3
587		4	max	0	4	0	5	-0.028	4	0	5	NC	7	2416.788	4
588			min	0	3	0	2	-0.283	3	0	1	NC	1	233.396	3
589		5	max	0	4	0	5	-0.003	4	0	4	NC	7	NC	7
590			min	0	3	0	2	-0.029	3	0	3	NC	1	NC	1
591	M60	1	max	0	4	0	5	-0.003	4	0	4	NC	7	NC	7
592			min	0	3	0	6	-0.029	3	0	2	NC	1	NC	1
593		2	max	0	4	0	5	-0.027	4	0	4	NC	7	2455.549	4
594			min	0	3	0	6	-0.278	3	0	2	NC	1	237.376	3

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
595		3	max	0	4	0	2	-0.037	4	0	4	NC	7	1747.044	4
596			min	0	3	0	1	-0.377	3	0	2	NC	1	168.87	3
597		4	max	0	4	0	2	-0.027	4	0	4	NC	7	2449.831	4
598			min	0	3	0	1	-0.272	3	0	2	NC	1	236.789	3
599		5	max	0	4	0	2	-0.002	4	0	4	NC	7	NC	7
600			min	0	3	0	1	-0.015	3	0	2	NC	1	NC	1
601	M61	1	max	0	2	0	2	0.032	5	0	4	NC	7	NC	7
602			min	0	3	0	3	0.004	1	-0.003	3	NC	1	NC	1
603		2	max	0	2	0	2	0.279	5	0	4	NC	7	2509.181	4
604			min	0	3	0	3	0.028	1	-0.003	3	NC	1	242.897	3
605		3	max	0	2	0	2	0.379	5	0	4	NC	7	1789.108	4
606			min	0	3	0	3	0.037	1	-0.003	3	NC	1	173.2	3
607		4	max	0	2	0	6	0.279	5	0	4	NC	7	2513.359	4
608			min	0	3	0	3	0.028	1	-0.003	3	NC	1	243.328	3
609		5	max	0	2	0	6	0.032	5	0	4	NC	7	NC	7
610			min	0	3	0	3	0.004	1	-0.003	3	NC	1	NC	1
611	M62	1	max	0	2	0	2	0.033	5	0	4	NC	7	NC	7
612			min	0	3	0	3	0.004	1	-0.003	3	NC	1	NC	1
613		2	max	0	2	0	2	0.28	5	0	4	NC	7	2509.083	4
614			min	0	3	0	3	0.028	1	-0.003	3	NC	1	242.887	3
615		3	max	0	2	0	2	0.379	5	0	4	NC	7	1789.043	4
616			min	0	3	0	3	0.037	1	-0.003	3	NC	1	173.193	3
617		4	max	0	2	0	2	0.279	5	0	4	NC	7	2513.286	4
618			min	0	3	0	3	0.028	1	-0.003	3	NC	1	243.32	3
619		5	max	0	2	0	2	0.032	5	0	4	NC	7	NC	7
620			min	0	3	0	3	0.004	1	-0.003	3	NC	1	NC	1
621	M63	1	max	0	2	0	2	0.027	5	-0.002	4	NC	7	NC	7
622			min	0	3	0	3	0.006	1	-0.007	3	NC	1	NC	1
623		2	max	0	2	0	2	0.278	5	-0.002	4	NC	7	2484.853	4
624			min	0	3	0	3	0.03	1	-0.006	3	NC	1	240.391	3
625		3	max	0	2	0	2	0.381	5	-0.001	4	NC	7	1768.334	4
626			min	0	3	0	3	0.039	1	-0.005	3	NC	1	171.06	3
627		4	max	0	2	0	2	0.281	5	-0.001	4	NC	7	2481.035	4
628			min	0	3	0	3	0.028	1	-0.004	3	NC	1	239.998	3
629		5	max	0	2	0	2	0.033	5	0	4	NC	7	NC	7
630			min	0	3	0	3	0.004	1	-0.003	3	NC	1	NC	1
631	M64	1	max	0	2	0	6	0.032	5	0	4	NC	7	NC	7
632			min	0	3	0	3	0.004	1	-0.003	3	NC	1	NC	1
633		2	max	0	2	0	6	0.276	5	-0.001	4	NC	7	2508.722	4
634			min	0	3	0	2	0.028	1	-0.003	3	NC	1	242.85	3
635		3	max	0	4	0	4	0.372	5	-0.001	4	NC	7	1788.801	4
636			min	0	3	0	2	0.038	1	-0.003	3	NC	1	173.168	3
637		4	max	0	4	0	4	0.269	5	-0.001	2	NC	7	2512.93	4
638			min	0	3	0	2	0.028	1	-0.003	3	NC	1	243.283	3
639		5	max	0	4	0	4	0.019	5	-0.001	2	NC	7	NC	7
640			min	0	3	0	2	0.005	1	-0.003	3	NC	1	NC	1
641	M65	1	max	0	6	0	4	-0.003	4	0	5	NC	7	NC	7
642			min	0	3	0	3	-0.029	3	0	1	NC	1	NC	1
643		2	max	0	4	0	4	-0.005	4	0	5	NC	7	NC	7
644			min	0	3	0	3	-0.027	3	0	1	NC	1	NC	1
645		3	max	0	4	0	4	-0.005	4	0	5	NC	7	NC	7
646			min	0	3	0	3	-0.025	3	0	1	NC	1	NC	1
647		4	max	0	4	0	4	-0.005	4	0	5	NC	7	NC	7
648			min	0	3	0	3	-0.021	3	0	1	NC	1	NC	1
649		5	max	0	4	0	4	-0.003	4	0	5	NC	7	NC	7

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
650			min	0	3	0	3	-0.017	3	0	1	NC	1	NC	1
651	M66	1	max	0	2	0	4	-0.003	4	0	4	NC	7	NC	7
652			min	0	3	0	3	-0.029	3	0	3	NC	1	NC	1
653		2	max	0	6	0	4	-0.005	4	0	4	NC	7	NC	7
654			min	0	3	0	3	-0.027	3	0	3	NC	1	NC	1
655		3	max	0	4	0	4	-0.005	4	0	4	NC	7	NC	7
656			min	0	3	0	3	-0.025	3	0	3	NC	1	NC	1
657		4	max	0	4	0	4	-0.005	4	0	4	NC	7	NC	7
658			min	0	3	0	3	-0.021	3	0	3	NC	1	NC	1
659		5	max	0	4	0	4	-0.003	4	0	4	NC	7	NC	7
660			min	0	3	0	3	-0.017	3	0	3	NC	1	NC	1
661	M67	1	max	0	2	0	4	-0.003	4	0	5	NC	7	NC	7
662			min	0	3	0	3	-0.029	3	0	1	NC	1	NC	1
663		2	max	0	6	0	4	-0.005	4	0	5	NC	7	NC	7
664			min	0	2	0	3	-0.027	3	0	1	NC	1	NC	1
665		3	max	0	6	0	4	-0.005	4	0	5	NC	7	NC	7
666			min	0	2	0	3	-0.025	3	0	1	NC	1	NC	1
667		4	max	0	7	0	4	-0.005	4	0	5	NC	7	NC	7
668			min	0	2	0	3	-0.021	3	0	1	NC	1	NC	1
669		5	max	0	7	0	4	-0.003	4	0	5	NC	7	NC	7
670			min	0	2	0	3	-0.017	3	0	1	NC	1	NC	1
671	M68	1	max	0	4	0	4	-0.002	4	0	5	NC	7	NC	7
672			min	0	2	0	3	-0.015	3	0	1	NC	1	NC	1
673		2	max	0	4	0	4	-0.003	4	0	5	NC	7	NC	7
674			min	0	2	0	3	-0.015	3	0	1	NC	1	NC	1
675		3	max	0	4	0	4	-0.004	4	0	5	NC	7	NC	7
676			min	0	2	0	3	-0.014	3	0	1	NC	1	NC	1
677		4	max	0	7	0	4	-0.003	4	0	5	NC	7	NC	7
678			min	0	1	0	3	-0.012	3	0	1	NC	1	NC	1
679		5	max	0	7	0	7	-0.002	4	0	5	NC	7	NC	7
680			min	0	1	0	1	-0.008	3	0	1	NC	1	NC	1
681	M69	1	max	0	6	0	2	-0.004	4	0	5	NC	7	NC	7
682			min	0	3	0	3	-0.032	3	0	1	NC	1	NC	1
683		2	max	0	6	0	4	-0.004	4	0	5	NC	7	NC	7
684			min	0	3	0	3	-0.031	3	0	1	NC	1	NC	1
685		3	max	0	6	0	4	-0.003	4	0	5	NC	7	NC	7
686			min	0	3	0	3	-0.03	3	0	1	NC	1	NC	1
687		4	max	0	6	0	4	-0.003	4	0	5	NC	7	NC	7
688			min	0	3	0	3	-0.029	3	0	1	NC	1	NC	1
689		5	max	0	6	0	4	-0.003	4	0	5	NC	7	NC	7
690			min	0	3	0	3	-0.029	3	0	1	NC	1	NC	1
691	M70	1	max	0	2	0	2	-0.004	4	0	4	NC	7	NC	7
692			min	0	3	0	3	-0.032	3	0	3	NC	1	NC	1
693		2	max	0	2	0	2	-0.004	4	0	4	NC	7	NC	7
694			min	0	3	0	3	-0.031	3	0	3	NC	1	NC	1
695		3	max	0	2	0	2	-0.003	4	0	4	NC	7	NC	7
696			min	0	3	0	3	-0.031	3	0	3	NC	1	NC	1
697		4	max	0	2	0	4	-0.003	4	0	4	NC	7	NC	7
698			min	0	3	0	3	-0.03	3	0	3	NC	1	NC	1
699		5	max	0	2	0	4	-0.003	4	0	4	NC	7	NC	7
700			min	0	3	0	3	-0.029	3	0	3	NC	1	NC	1
701	M71	1	max	0	2	0	2	-0.004	4	0	5	NC	7	NC	7
702			min	0	3	0	3	-0.033	3	0	1	NC	1	NC	1
703		2	max	0	2	0	2	-0.004	4	0	5	NC	7	NC	7
704			min	0	3	0	3	-0.032	3	0	1	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
705		3	max	0	2	0	2	-0.003	4	0	5	NC	7	NC	7
706			min	0	3	0	3	-0.031	3	0	1	NC	1	NC	1
707		4	max	0	2	0	4	-0.003	4	0	5	NC	7	NC	7
708			min	0	3	0	3	-0.03	3	0	1	NC	1	NC	1
709		5	max	0	2	0	4	-0.003	4	0	5	NC	7	NC	7
710			min	0	3	0	3	-0.029	3	0	1	NC	1	NC	1
711	M72	1	max	0	4	0	4	-0.005	4	0	5	NC	7	NC	7
712			min	0	2	0	3	-0.019	3	0	1	NC	1	NC	1
713		2	max	0	4	0	4	-0.004	4	0	5	NC	7	NC	7
714			min	0	2	0	3	-0.018	3	0	1	NC	1	NC	1
715		3	max	0	4	0	4	-0.004	4	0	5	NC	7	NC	7
716			min	0	2	0	3	-0.017	3	0	1	NC	1	NC	1
717		4	max	0	4	0	4	-0.003	4	0	5	NC	7	NC	7
718			min	0	2	0	3	-0.016	3	0	1	NC	1	NC	1
719		5	max	0	4	0	4	-0.002	4	0	5	NC	7	NC	7
720			min	0	2	0	3	-0.015	3	0	1	NC	1	NC	1
721	M73	1	max	0	5	0	5	-0.006	4	0.001	5	NC	7	NC	7
722			min	0	2	0	2	-0.027	3	0	1	NC	1	NC	1
723		2	max	0	5	0.001	5	-0.019	4	0.001	5	NC	7	7258.886	4
724			min	0	1	0	2	-0.063	3	0	1	NC	1	2213.871	3
725		3	max	0	5	0.002	5	-0.032	4	0.002	5	NC	7	4706.315	4
726			min	0	1	0	1	-0.094	3	0.001	1	NC	1	1489.451	3
727		4	max	0	5	0.004	5	-0.041	4	0.003	5	NC	7	5530.841	4
728			min	0	1	0.001	1	-0.118	3	0.001	1	NC	1	1801.053	3
729		5	max	0	5	0.007	5	-0.048	4	0.004	5	NC	7	NC	7
730			min	0	1	0.001	1	-0.131	3	0.001	1	NC	1	NC	1

Envelope AISI S100-16: ASD Member Cold Formed Steel Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pn/Om[lb]	Tn/Om[lb]	Mnyy/Om[lb-ft]	Mnzz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
1	M47	1200S200-97	0.256	2	5	0.042	4	z	5	18629.826	50299.401	884.053	6833.989	8145.361	5687.827	1.025	H1.2-1
2	M48	1200S200-97	0.256	2	5	0.042	4	z	5	17069.542	50299.401	884.053	6836.208	8145.361	5687.827	1	H1.1-2
3	M49	1200S200-97	0.256	2	5	0.042	4	z	5	17069.542	50299.401	884.053	6836.202	8145.361	5687.827	1.021	H1.1-2
4	M50	1200S200-97	0.255	2	5	0.042	4	z	5	17069.542	50299.401	884.053	6834.873	8145.361	5687.827	1.346	H1.1-2
5	M51	1200S200-97	0.014	2.125	5	0.003	0	z	5	17069.542	50299.401	884.053	6885.223	8145.361	5687.827	1.429	H1.1-2
6	M52	1200S200-97	0.256	2	5	0.041	0	z	5	18629.826	50299.401	884.053	6835.55	8145.361	5687.827	1.336	H1.2-1
7	M53	1200S200-97	0.38	2	5	0.061	0	z	5	17069.542	50299.401	884.053	6834.63	8145.361	5687.827	1.474	H1.1-2

Envelope AA ADM1-20: ASD - BUILDING Member Aluminum Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/Om[lb]	Pnt/Om[lb]	Mny/Om[lb-ft]	Mnz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
1	M1	RT2X2X0.125	0.363	6.67	5	0	6.67	z	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
2	M2	RT2X2X0.125	0.227	6.67	5	0	6.67	z	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
3	M3	RT2X2X0.125	0.613	0	5	0	6.67	y	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.3-2
4	M4	RT2X2X0.125	0.41	6.67	5	0	6.67	y	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
5	M5	EDGEBEAM	0.585	2.5	5	0.063	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
6	M6	EDGEBEAM	0.585	2.5	5	0.063	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
7	M7	EDGEBEAM	0.577	2.5	5	0.063	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
8	M8	EDGEBEAM	0.276	3	5	0.024	0	z	5	16689.74	28012.821	1664.434	570.315	6153.846	12307.692	1	H.1-1
9	M9	RT2X2X0.125	0.186	6.67	5	0	6.67	y	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
10	M10	RT2X2X0.125	0.326	6.67	5	0	6.67	y	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
11	M11	EDGEBEAM	0.585	2.5	5	0.063	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
12	M12	EDGEBEAM	0.271	0	5	0.034	2	z	5	22739.016	28012.821	1664.434	605.95	6153.846	12307.692	1	H.1-1
13	M13	RT2X2X0.125	0.362	6.67	5	0	6.67	z	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
14	M14	RT2X2X0.125	0.36	6.67	5	0	6.67	z	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.1-1

Envelope AA ADM1-20: ASD - BUILDING Member Aluminum Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/Om[lb]	Pnt/Om[lb]	Mny/Om[lb-ft]	Mnz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
15	M15	RT2X2X0.125	0.611	0	5	0	6.67	y	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.3-2
16	M16	RT2X2X0.125	0.615	0	5	0	6.67	y	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.3-2
17	M17	RT2X2X0.125	0.364	6.67	5	0	6.67	z	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
18	M18	RT2X2X0.125	0.214	6.67	5	0	6.67	z	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
19	M19	EDGEBEAM	0.079	4.9	5	0.003	0	z	5	6256.046	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
20	M20	EDGEBEAM	0.576	2.5	5	0.062	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
21	M21	EDGEBEAM	0.576	2.5	5	0.062	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
22	M22	EDGEBEAM	0.572	2.5	5	0.062	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
23	M23	EDGEBEAM	0.079	4.9	5	0.003	0	z	5	6256.046	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
24	M24	EDGEBEAM	0.08	4.9	5	0.003	0	z	5	6256.046	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
25	M25	RT2X2X0.125	0.2	6.67	5	0	6.67	z	2	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
26	M26	EDGEBEAM	0.072	3.011	5	0.007	0	z	5	6256.046	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
27	M27	EDGEBEAM	0.576	2.5	5	0.063	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
28	M28	EDGEBEAM	0.05	0.1	5	0.076	0	z	5	29591.161	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
29	M29	RT2X2X0.125	0.363	6.67	5	0	6.67	z	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
30	M30	RT2X2X0.125	0.362	6.67	5	0	6.67	z	5	4424.671	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
31	M31	0.25X8STRINGER	0.105	1.305	5	0.02	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
32	M32	0.25X8STRINGER	0.105	1.305	5	0.015	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
33	M33	0.25X8STRINGER	0.116	0	5	0.005	1.302	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
34	M34	0.25X8STRINGER	0.115	0	5	0.005	1.302	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
35	M35	0.25X8STRINGER	0.27	1.302	5	0.013	1.302	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
36	M36	0.25X8STRINGER	0.277	1.302	5	0.014	1.302	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
37	M37	0.25X8STRINGER	0.708	1.302	5	0.022	1.302	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
38	M38	0.25X8STRINGER	0.72	1.302	5	0.022	1.302	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
39	M39	0.25X8STRINGER	0.638	0	5	0.034	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
40	M40	0.25X8STRINGER	0.615	0	5	0.022	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
41	M41	0.25X8STRINGER	0.139	1.302	5	0.018	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
42	M42	0.25X8STRINGER	0.297	0	5	0.021	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
43	M43	0.25X8STRINGER	0.209	1.302	5	0.007	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
44	M44	0.25X8STRINGER	0.127	1.302	5	0.01	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
45	M45	0.25X8STRINGER	0.254	0	5	0.009	1.302	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
46	M46	0.25X8STRINGER	0.138	0	5	0.006	1.302	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
47	M54	EDGEBEAM	0.197	0	5	0.018	3	z	5	16689.74	28012.821	1664.434	570.315	6153.846	12307.692	1	H.1-1
48	M55	RT2X2X0.125	0.107	0	5	0	3.33	z	7	13478.029	18278.974	975.758	975.758	5000	5000	1	H.1-1
49	M56	RT2X2X0.125	0.131	0	5	0	3.33	z	7	13478.029	18278.974	975.758	975.758	5000	5000	1	H.1-1
50	M57	EDGEBEAM	0.513	2.5	5	0.056	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
51	M58	EDGEBEAM	0.512	2.5	5	0.056	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
52	M59	EDGEBEAM	0.52	2.5	5	0.056	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
53	M60	EDGEBEAM	0.512	2.5	5	0.056	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
54	M61	EDGEBEAM	0.499	2.5	5	0.054	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
55	M62	EDGEBEAM	0.499	2.5	5	0.054	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
56	M63	EDGEBEAM	0.506	2.5	5	0.059	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
57	M64	EDGEBEAM	0.499	2.5	5	0.055	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
58	M65	EDGEBEAM	0.003	2.5	7	0	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
59	M66	EDGEBEAM	0.003	2.5	7	0	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
60	M67	EDGEBEAM	0.003	2.5	7	0	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
61	M68	EDGEBEAM	0.003	2.552	5	0.001	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
62	M69	EDGEBEAM	0.079	0	5	0.106	0.1	z	5	29591.161	28012.821	1664.434	711.07	6153.846	12307.692	1	H.1-1
63	M70	EDGEBEAM	0.079	0	5	0.106	0.1	z	5	29591.161	28012.821	1664.434	711.07	6153.846	12307.692	1	H.1-1
64	M71	EDGEBEAM	0.079	0	5	0.107	0.1	z	5	29591.161	28012.821	1664.434	711.07	6153.846	12307.692	1	H.1-1
65	M72	EDGEBEAM	0.043	0	5	0.058	0.1	z	5	29591.161	28012.821	1664.434	711.07	6153.846	12307.692	1	H.1-1
66	M73	EDGEBEAM	0.208	1.9	5	0.021	0	z	5	23349.609	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1

Envelope Plate Principal Stresses

	Plate		Surface	Sigma1 [ksi]	LC	Sigma2 [ksi]	LC	Tau Max [ksi]	LC	Angle [rad]	LC	Von Mises [ksi]	LC
1	P1	max	T	0.001	5	0	4	0.001	5	0	4	0.001	5
2		min		0	1	-0.001	3	0	1	-0.785	6	0	1
3		max	B	0.001	5	0	4	0.001	5	0	4	0.001	5
4		min		0	1	-0.001	3	0	1	-0.785	6	0	1
5	P2	max	T	0	5	0	4	0.001	5	2.247	5	0.001	5
6		min		0	1	-0.001	3	0	1	-0.284	2	0	1
7		max	B	0	5	0	4	0.001	5	2.247	5	0.001	5
8		min		0	1	-0.001	3	0	1	-0.284	2	0	1
9	P3	max	T	0	2	0	4	0.001	5	1.784	5	0.002	5
10		min		-0.001	3	-0.002	3	0	6	-0.556	2	0	1
11		max	B	0	2	0	4	0.001	5	1.784	5	0.002	5
12		min		-0.001	3	-0.002	3	0	6	-0.556	2	0	1
13	P4	max	T	0.001	5	0	4	0.001	5	0	4	0.002	5
14		min		0	1	-0.001	3	0	1	-0.785	6	0	1
15		max	B	0.001	5	0	4	0.001	5	0	4	0.002	5
16		min		0	1	-0.001	3	0	1	-0.785	6	0	1
17	P5	max	T	0.001	5	0	4	0.001	5	0.785	6	0.001	5
18		min		0	1	-0.001	3	0	1	0	1	0	1
19		max	B	0.001	5	0	4	0.001	5	0.785	6	0.001	5
20		min		0	1	-0.001	3	0	1	0	1	0	1
21	P6	max	T	0	2	0	4	0.001	5	1.065	6	0.001	5
22		min		0	1	-0.001	3	0	1	0	1	0	1
23		max	B	0	2	0	4	0.001	5	1.065	6	0.001	5
24		min		0	1	-0.001	3	0	1	0	1	0	1
25	P7	max	T	0.001	2	0	4	0.001	5	1.571	6	0.002	5
26		min		-0.001	3	-0.002	3	0	1	0.672	2	0	1
27		max	B	0.001	2	0	4	0.001	5	1.571	6	0.002	5
28		min		-0.001	3	-0.002	3	0	1	0.672	2	0	1
29	P8	max	T	0.001	5	0	4	0.001	5	0.663	6	0.002	5
30		min		0	1	-0.001	3	0	1	0	1	0	1
31		max	B	0.001	5	0	4	0.001	5	0.663	6	0.002	5
32		min		0	1	-0.001	3	0	1	0	1	0	1
33	P9	max	T	-0.006	4	-0.036	4	0.051	5	0	5	0.111	5
34		min		-0.018	3	-0.119	3	0.015	1	-0.012	6	0.034	1
35		max	B	-0.006	4	-0.036	4	0.051	5	0	5	0.111	5
36		min		-0.018	3	-0.119	3	0.015	1	-0.012	6	0.034	1

Envelope Plate Forces (per ft)

	Plate		Qx [lb]	LC	Qy [lb]	LC	Mx [lb-ft]	LC	My [lb-ft]	LC	Mxy [lb-ft]	LC	Fx [lb]	LC	Fy [lb]	LC	Fxy [lb]	LC
1	P1	max	0	7	0	7	0	7	0	7	0	7	0.042	5	0	6	0	4
2		min	0	1	0	1	0	1	0	1	0	1	0	1	-0.128	2	-0.21	3
3	P2	max	0	7	0	7	0	7	0	7	0	7	0.046	2	0	6	0	4
4		min	0	1	0	1	0	1	0	1	0	1	-0.205	3	-0.172	2	-0.222	3
5	P3	max	0	7	0	7	0	7	0	7	0	7	0.036	2	0	4	0	6
6		min	0	1	0	1	0	1	0	1	0	1	-0.842	3	-0.238	3	-0.201	2
7	P4	max	0	7	0	7	0	7	0	7	0	7	0.186	5	0	7	0	4
8		min	0	1	0	1	0	1	0	1	0	1	0	1	0	1	-0.356	3
9	P5	max	0	7	0	7	0	7	0	7	0	7	0.054	5	0	6	0.204	5
10		min	0	1	0	1	0	1	0	1	0	1	0	1	-0.123	2	0	1
11	P6	max	0	7	0	7	0	7	0	7	0	7	0.042	2	0	6	0.216	5
12		min	0	1	0	1	0	1	0	1	0	1	-0.206	3	-0.19	2	0	1
13	P7	max	0	7	0	7	0	7	0	7	0	7	0.053	2	0	6	0.207	2
14		min	0	1	0	1	0	1	0	1	0	1	-0.855	3	-0.219	3	0	1
15	P8	max	0	7	0	7	0	7	0	7	0	7	0.194	5	0	7	0.349	5

Envelope Plate Forces (per ft) (Continued)

	Plate		Qx [lb]	LC	Qy [lb]	LC	Mx [lb-ft]	LC	My [lb-ft]	LC	Mxy [lb-ft]	LC	Fx [lb]	LC	Fy [lb]	LC	Fxy [lb]	LC
16		min	0	1	0	1	0	1	0	1	0	1	0	1	-0.05	2	0	1
17	P9	max	0	6	0	7	0	7	0	7	0	7	-1.997	4	-12.991	4	0	5
18		min	-3.288	3	0	1	0	1	0	1	0	1	-6.557	3	-42.986	3	-0.308	2

Envelope Plate/Shell Corner Forces

	Plate	Node		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	P1	N47	max	0.357	5	7.767	4	-0.062	4	0.24	4	0	7	0.036	4
2			min	-0.012	2	-2.05	2	-0.793	3	-2.936	2	0	1	-2.192	2
3		N54	max	-0.036	4	7.583	5	0.227	2	0.24	4	0	7	-0.363	4
4			min	-0.569	3	0.165	2	-0.258	3	-2.933	2	0	1	-2.878	3
5		N38	max	0.028	2	9.929	5	0.832	5	0.025	4	0	7	-0.363	4
6			min	-0.482	3	2.14	2	0.065	1	-2.829	2	0	1	-2.876	3
7		N42	max	0.694	5	7.652	4	0.219	5	0.025	4	0	7	0.037	4
8			min	0.058	1	-0.255	2	-0.275	2	-2.831	2	0	1	-2.191	2
9	P2	N42	max	0.944	5	7.541	4	-0.046	4	-0.093	4	0	7	1.827	2
10			min	-0.066	2	-0.308	2	-0.943	3	-2.691	3	0	1	-0.195	1
11		N38	max	0.082	7	9.708	5	0.223	2	-0.093	4	0	7	2.438	5
12			min	-0.164	2	1.936	2	-0.168	3	-2.689	3	0	1	0.207	1
13		N40	max	-0.143	4	7.666	5	0.698	5	0.006	4	0	7	2.438	5
14			min	-1.192	3	0.092	2	-0.012	1	-2.471	2	0	1	0.207	1
15		N43	max	0.414	2	7.737	4	0.413	5	0.006	4	0	7	1.828	2
16			min	-0.046	1	-1.72	2	-0.29	2	-2.473	2	0	1	-0.195	1
17	P3	N43	max	3.008	5	7.765	4	0.005	4	-0.087	4	0	7	0.358	4
18			min	-0.066	2	-1.809	2	-0.958	2	-3.159	3	0	1	-1.454	2
19		N40	max	1.2	5	8.089	5	0.212	7	-0.087	4	0	7	-0.059	4
20			min	-0.115	2	0.415	2	-0.047	2	-3.157	3	0	1	-2.077	3
21		N41	max	-0.137	4	10.118	5	0.987	5	-0.277	4	0	7	-0.058	4
22			min	-1.885	3	2.33	2	0.094	1	-4.078	3	0	1	-2.074	3
23		N44	max	1.071	2	7.402	4	0.145	2	-0.277	4	0	7	0.358	4
24			min	-2.323	3	-0.936	2	-0.336	7	-4.081	3	0	1	-1.451	2
25	P4	N49	max	0.89	5	7.51	5	-0.109	4	-1.076	4	0	7	2.689	5
26			min	0.09	1	0.237	2	-0.814	3	-3.057	3	0	1	0.122	1
27		N45	max	-0.167	4	10.215	5	-0.069	4	-1.076	4	0	7	3.339	5
28			min	-1.821	3	1.921	2	-0.964	3	-3.055	3	0	1	0.522	1
29		N54	max	0.052	2	7.571	4	0.956	5	-0.31	4	0	7	3.341	5
30			min	-0.021	6	-0.125	2	0.082	1	-2.818	3	0	1	0.522	1
31		N47	max	0.888	5	7.484	4	0.822	5	-0.31	4	0	7	2.692	5
32			min	0.088	1	-2.033	2	0.096	1	-2.82	3	0	1	0.122	1
33	P5	N39	max	-0.048	4	7.668	4	0.246	5	2.789	5	0	7	-0.205	4
34			min	-0.596	3	-0.074	2	-0.203	2	0.234	1	0	1	-2.945	3
35		N47	max	0.325	5	7.609	4	0.772	5	2.791	5	0	7	0.115	4
36			min	-0.011	2	-1.943	2	0.069	1	0.234	1	0	1	-2.303	2
37		N42	max	0.693	5	7.569	4	0.249	2	2.839	5	0	7	0.116	4
38			min	0.061	1	-0.173	2	-0.208	3	0.102	1	0	1	-2.302	2
39		N50	max	0.043	2	9.969	5	-0.063	4	2.836	5	0	7	-0.205	4
40			min	-0.422	3	2.191	2	-0.81	3	0.102	1	0	1	-2.944	3
41	P6	N50	max	0.098	5	9.794	5	0.147	5	2.688	2	0	7	2.69	5
42			min	-0.17	2	2.105	2	-0.228	2	-0.035	1	0	1	0.121	1
43		N42	max	0.93	5	7.575	4	0.932	5	2.69	2	0	7	1.993	2
44			min	-0.042	2	-0.278	2	0.049	1	-0.035	1	0	1	-0.238	1
45		N43	max	0.416	2	7.768	4	0.347	2	2.467	2	0	7	1.994	2
46			min	-0.048	1	-1.784	2	-0.388	3	-0.041	1	0	1	-0.238	1
47		N51	max	-0.142	4	7.591	4	-0.004	4	2.464	2	0	7	2.691	5
48			min	-1.177	3	-0.043	2	-0.721	2	-0.041	1	0	1	0.121	1
49	P7	N51	max	1.272	5	7.937	5	0.175	2	3.18	5	0	7	-0.04	4

Envelope Plate/Shell Corner Forces (Continued)

	Plate	Node		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
50			min	-0.149	2	0.246	2	-0.202	3	0.119	1	0	1	-2.48	3
51		N43	max	3.005	5	7.755	4	0.862	2	3.183	5	0	7	0.367	4
52			min	-0.117	2	-1.887	2	-0.033	1	0.12	1	0	1	-1.66	2
53		N44	max	1.153	2	7.395	4	0.233	5	4.173	5	0	7	0.368	4
54			min	-2.346	3	-0.887	2	-0.65	2	0.286	1	0	1	-1.658	2
55		N52	max	-0.133	4	10.316	5	0.025	4	4.17	5	0	7	-0.04	4
56			min	-1.931	3	2.528	2	-0.892	3	0.285	1	0	1	-2.478	3
57	P8	N46	max	-0.178	4	10.025	5	0.939	5	3.391	2	0	7	3.223	5
58			min	-1.833	3	2.531	2	0.135	1	-0.694	1	0	1	0.29	1
59		N49	max	0.864	5	7.936	4	0.804	5	3.393	2	0	7	2.631	5
60			min	0.076	1	-0.305	2	0.04	1	-0.695	1	0	1	0.006	1
61		N47	max	0.879	5	7.72	4	-0.104	2	2.886	2	0	7	2.633	5
62			min	0.099	1	-2.206	2	-0.803	3	-0.165	1	0	1	0.006	1
63		N39	max	0.089	5	7.474	4	-0.065	4	2.883	2	0	7	3.225	5
64			min	0.004	1	-0.02	2	-0.941	3	-0.164	1	0	1	0.29	1
65	P9	N36	max	73.394	5	-8.967	4	-4.489	4	25.045	5	-2.037	4	-0.913	4
66			min	20.32	1	-34.859	3	-15.665	3	2.452	1	-20.889	3	-2.397	3
67		N48	max	57.266	5	-12.124	4	15.708	5	25.014	5	-2.045	4	-0.96	4
68			min	19.104	1	-64.164	3	4.804	1	2.437	1	-20.912	3	-2.969	3
69		N26	max	-19.859	4	63.744	5	18.459	5	1.287	5	-0.095	4	-0.965	4
70			min	-68.205	3	23.349	1	5.604	1	0.118	1	-1.054	3	-2.981	3
71		N27	max	-19.565	4	60.813	5	-5.918	4	1.247	5	-0.101	4	-0.918	4
72			min	-62.455	3	23.277	1	-18.502	3	0.115	1	-1.086	3	-2.409	3

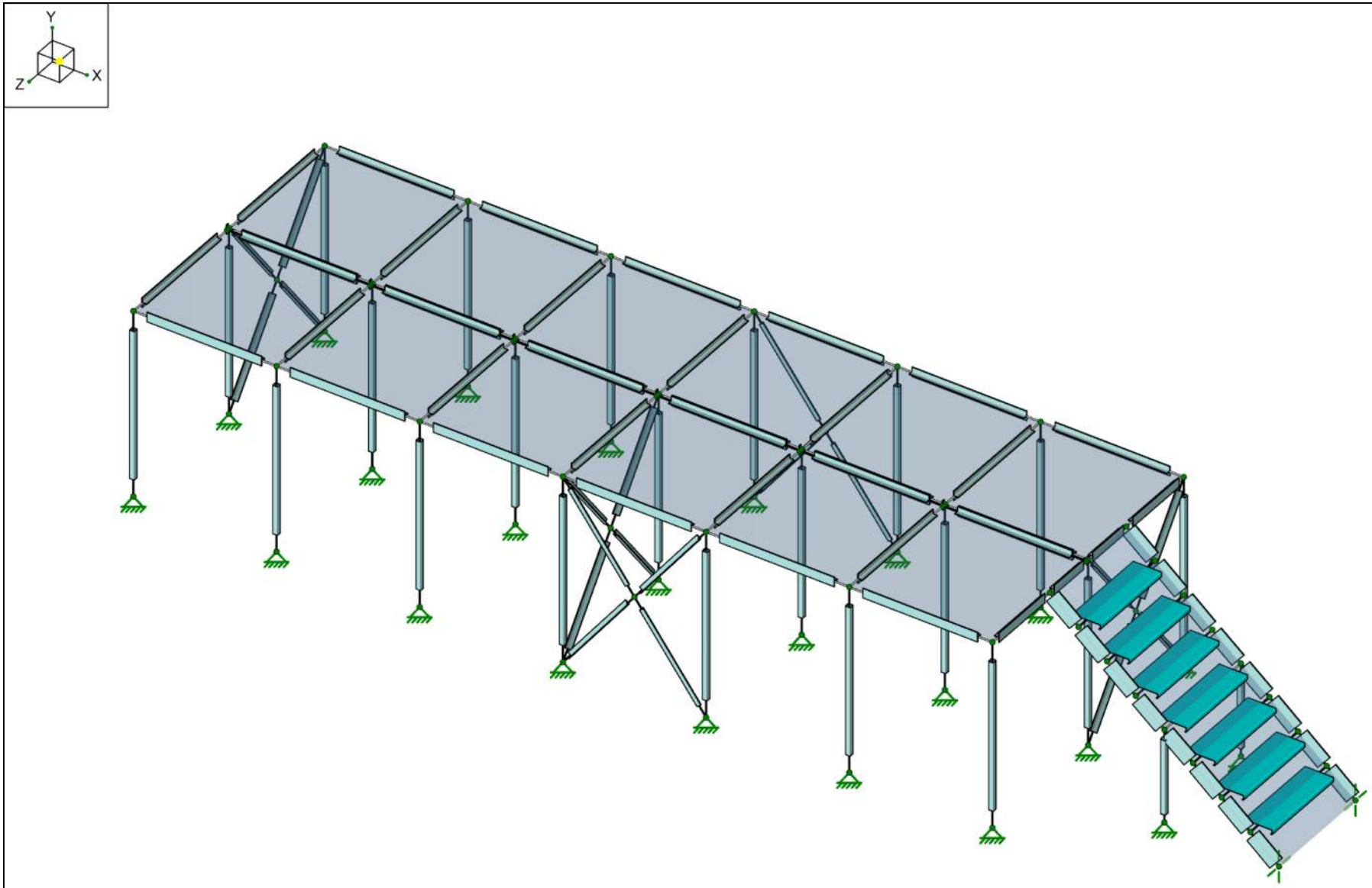
Load Combination Design

	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
1	Deflection 1		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	Deflection 2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	Deflection 3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	IBC 21/ASCE ASD 1	0.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	IBC 21/ASCE ASD 2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	IBC 21/ASCE ASD 3 (b)	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	IBC 21/ASCE ASD 4 (b)	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

ACCESS PLATFORM AND STAIR STRUCTURAL CALCULATIONS

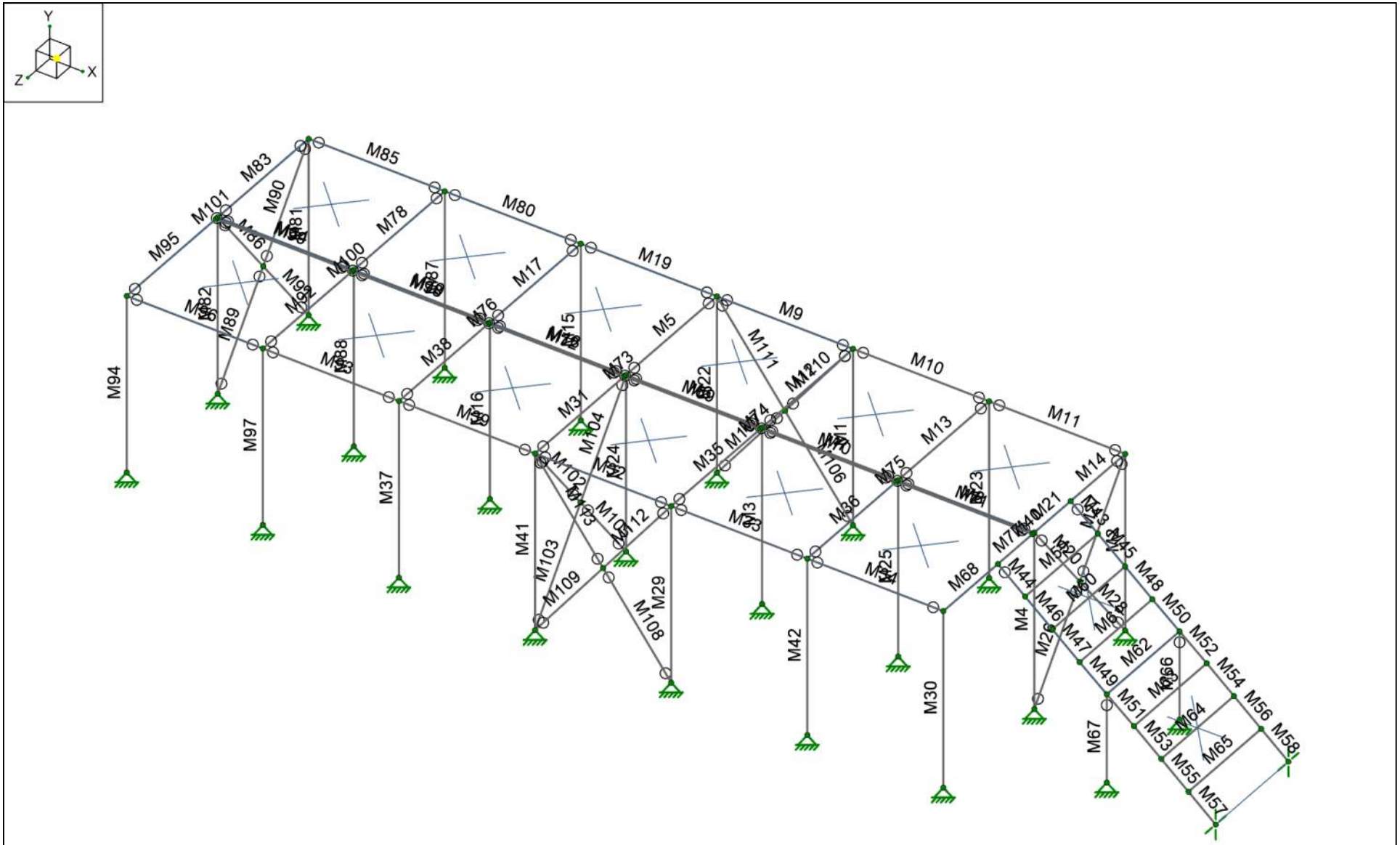
DOUBLE WIDTH PLATFORM

LATERAL ANALYSIS



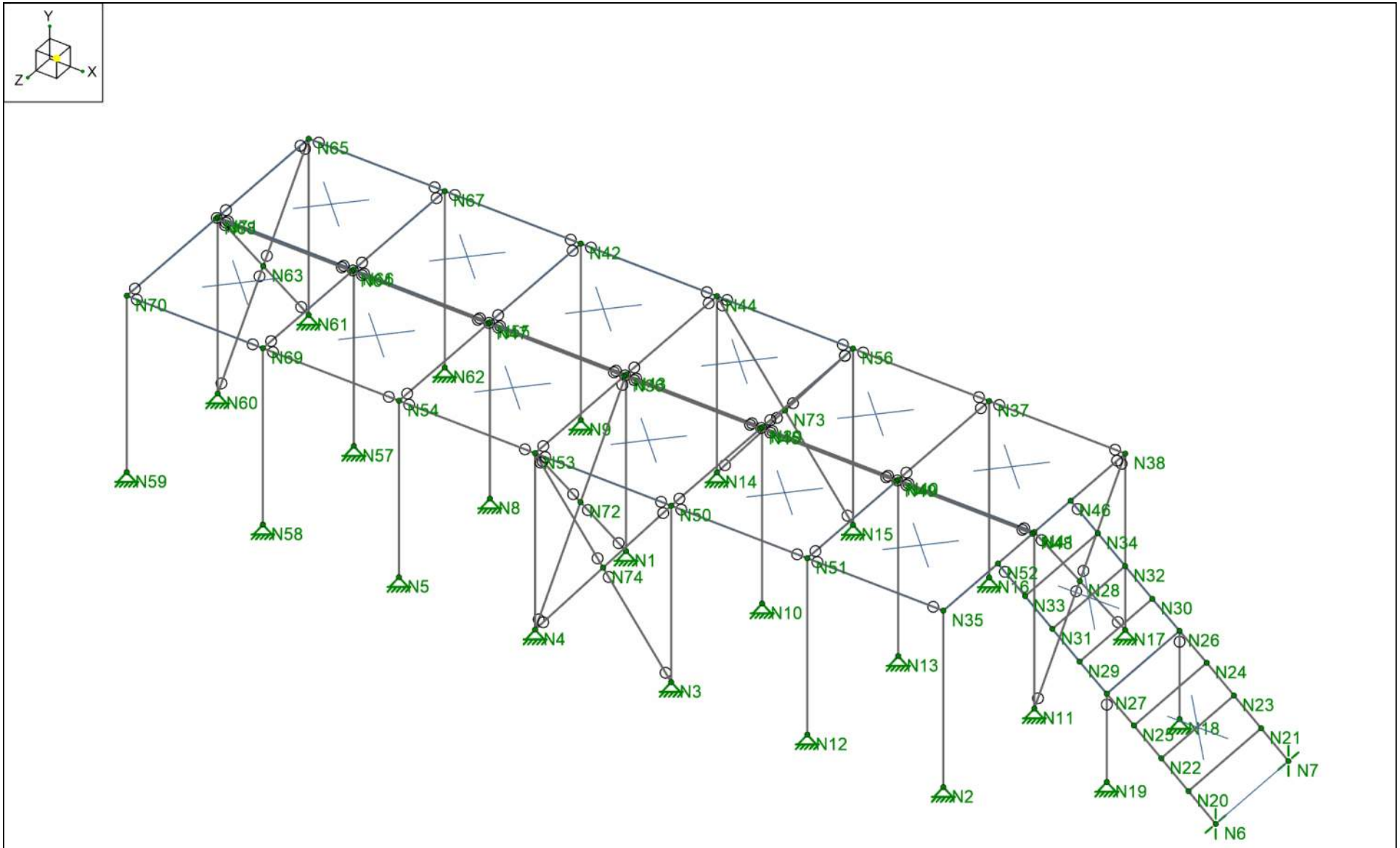
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Ramp and Landing	SK-1
	AMP		Dec 27, 2024 at 10:59 AM
	2241015.20		Access Platform with Stair - Double.r3d



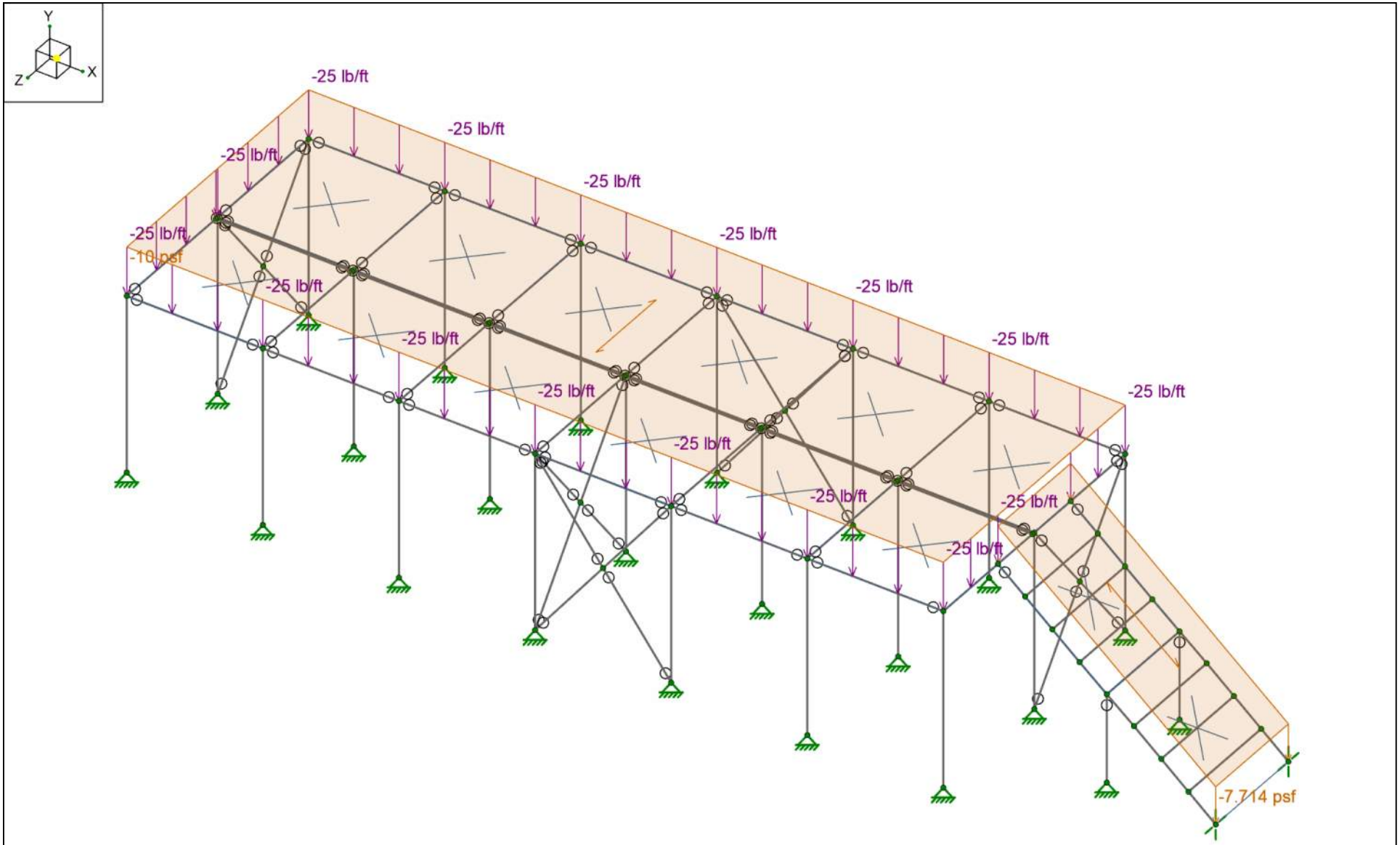
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Ramp and Landing	SK-2
	AMP		Dec 27, 2024 at 10:59 AM
	2241015.20		Access Platform with Stair - Double.r3d



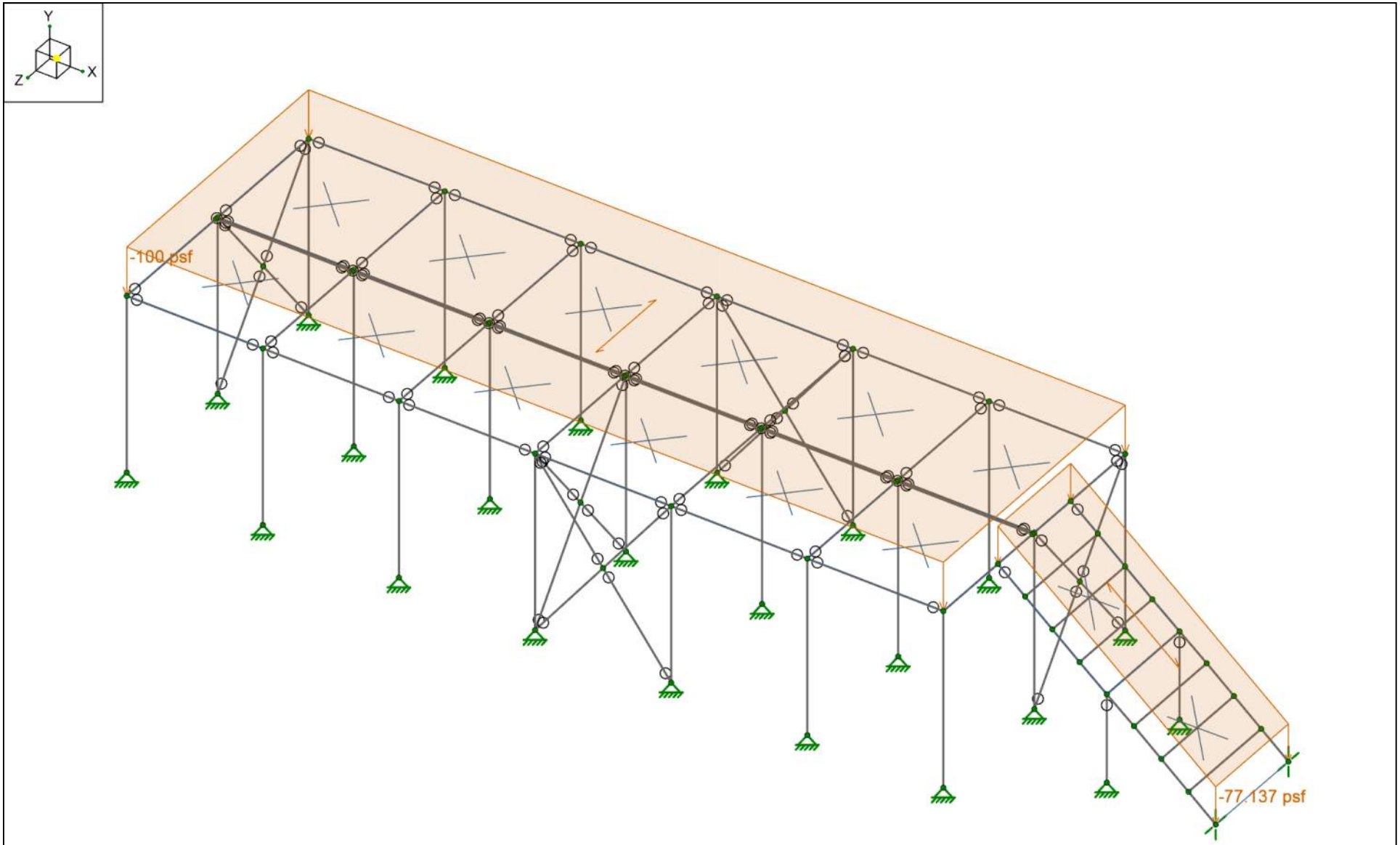
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Ramp and Landing	SK-3
	AMP		Dec 27, 2024 at 10:59 AM
	2241015.20		Access Platform with Stair - Double.r3d



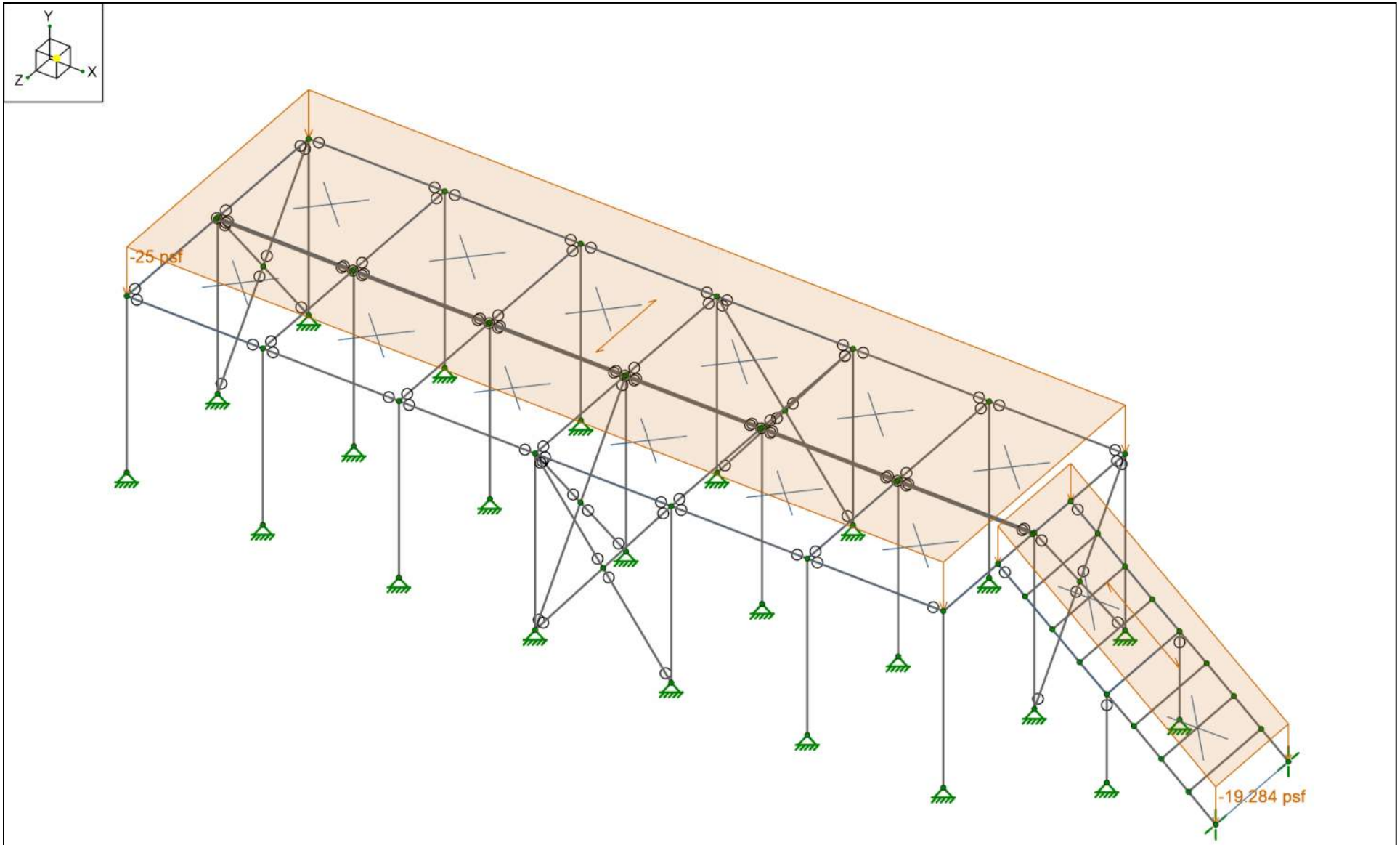
Loads: BLC 1, Dead
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Ramp and Landing	SK-4
	AMP		Dec 27, 2024 at 10:59 AM
	2241015.20		Access Platform with Stair - Double.r3d



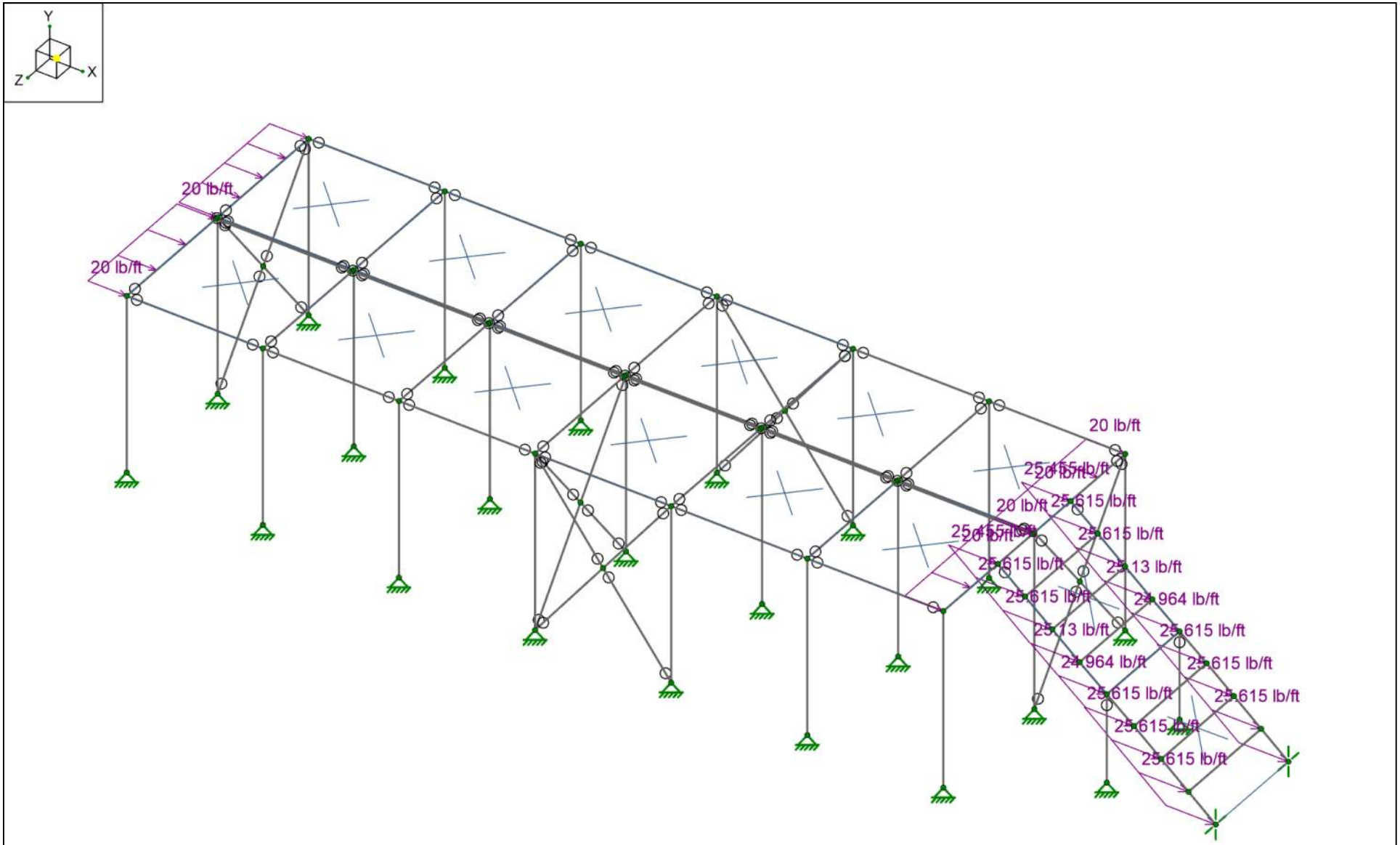
Loads: BLC 2, Live
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Ramp and Landing	SK-5
	AMP		Dec 27, 2024 at 11:00 AM
	2241015.20		Access Platform with Stair - Double.r3d



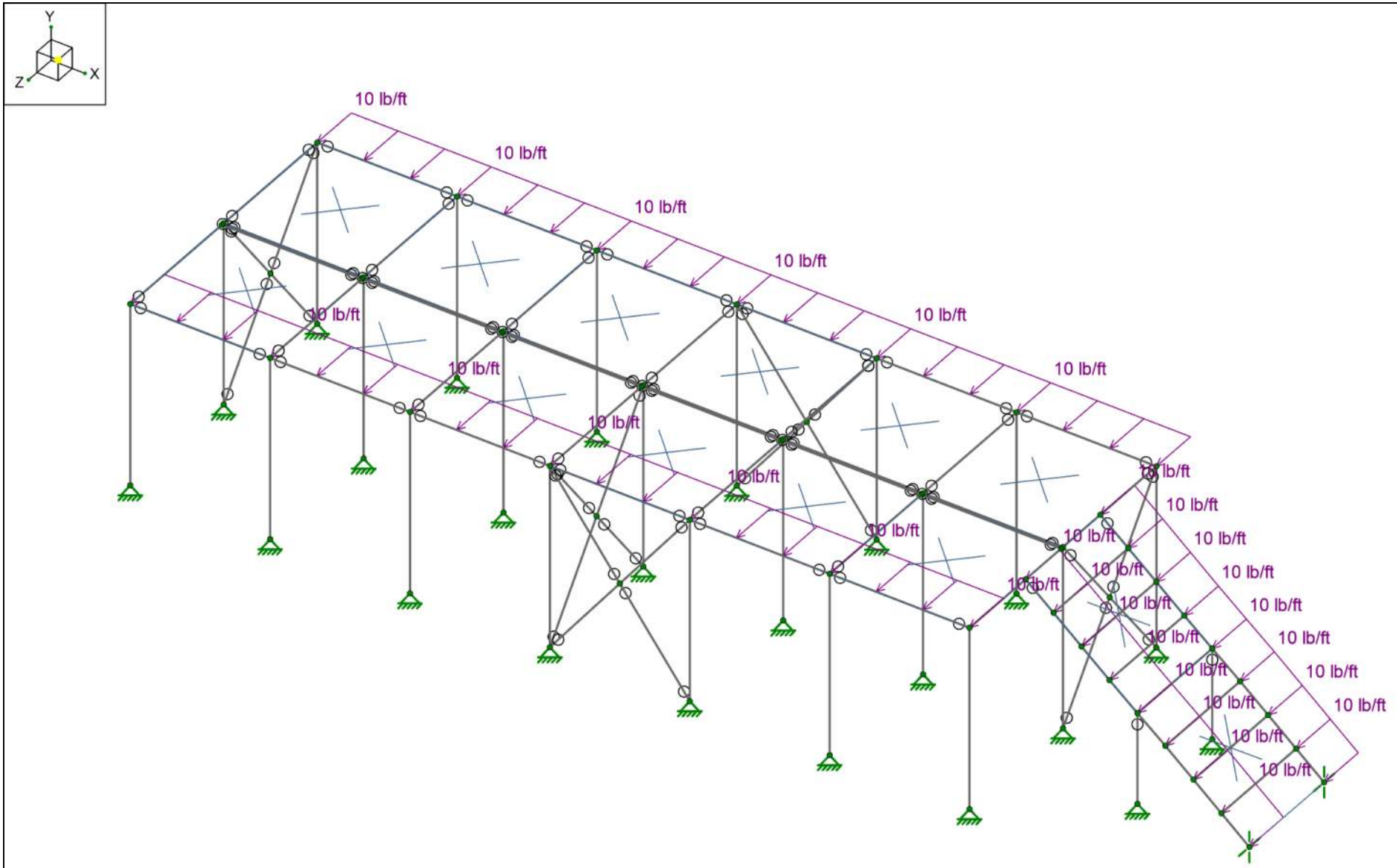
Loads: BLC 7, Snow
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Ramp and Landing	SK-6
	AMP		Dec 27, 2024 at 11:00 AM
	2241015.20		Access Platform with Stair - Double.r3d



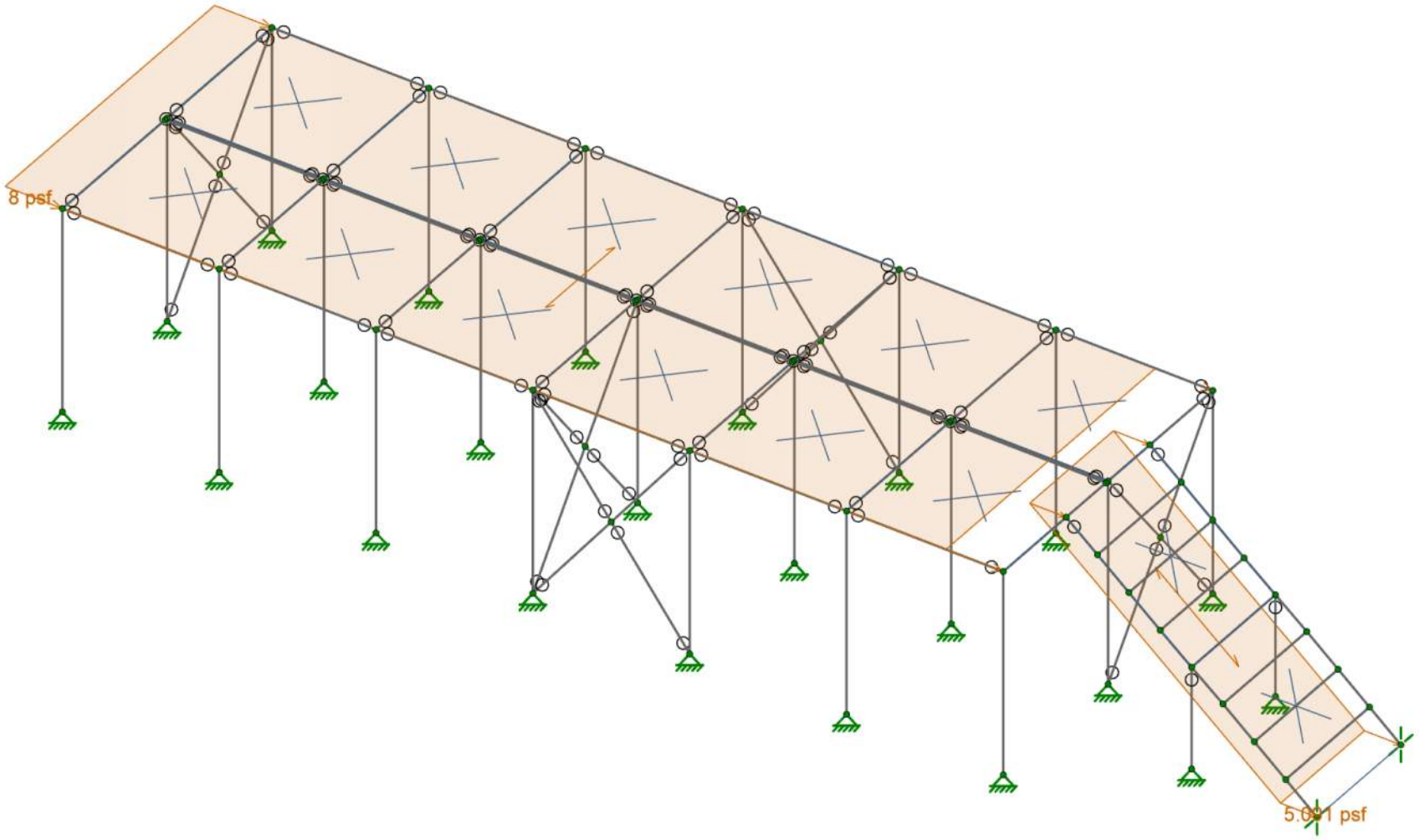
Loads: BLC 3, Wind X
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Ramp and Landing	SK-7
	AMP		Dec 27, 2024 at 11:00 AM
	2241015.20		Access Platform with Stair - Double.r3d



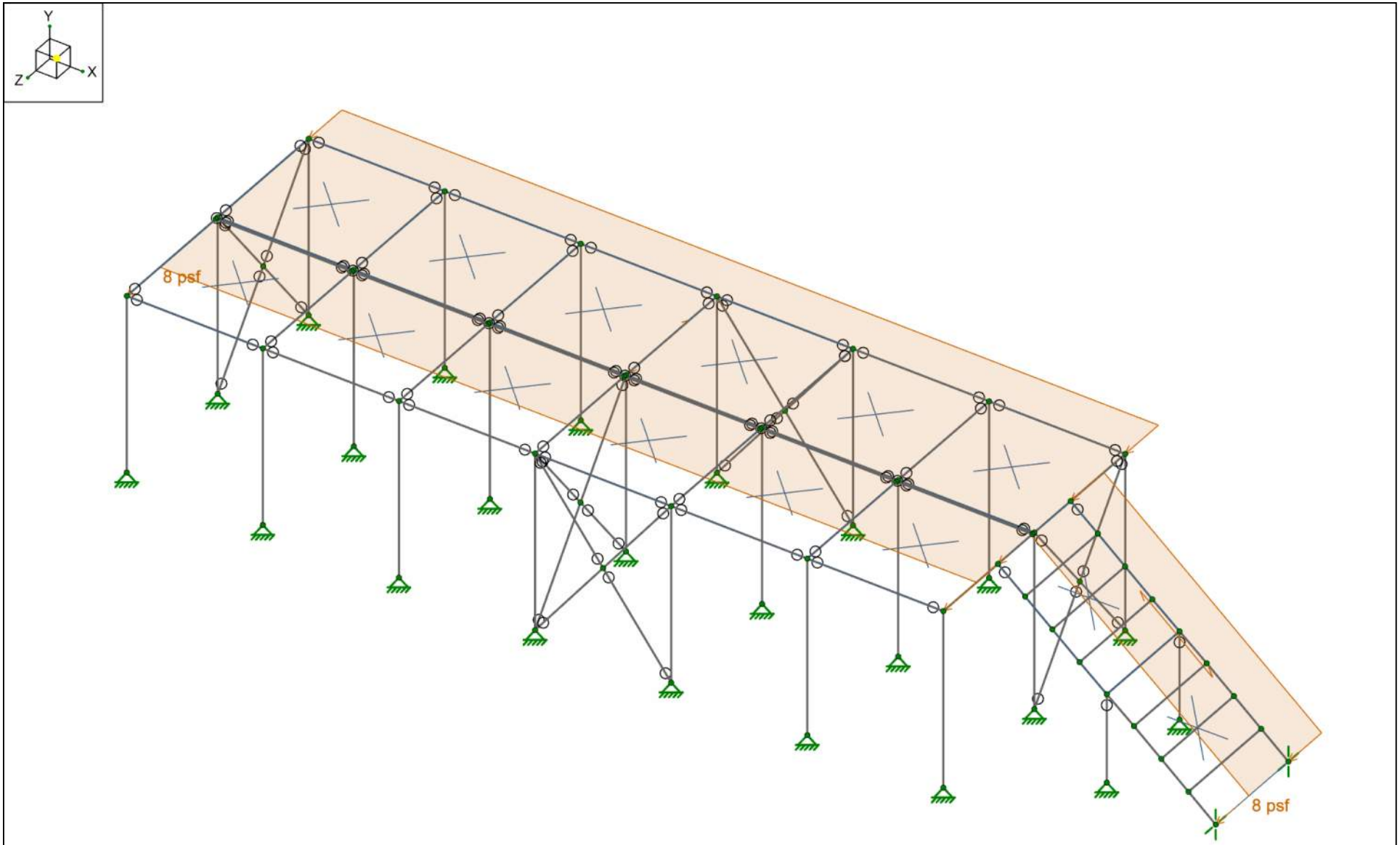
Loads: BLC 4, Wind Z
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Ramp and Landing	SK-8
	AMP		Dec 27, 2024 at 11:00 AM
	2241015.20		Access Platform with Stair - Double.r3d



Loads: BLC 5, Seismic X
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Ramp and Landing	SK-9
	AMP		Dec 27, 2024 at 11:01 AM
	2241015.20		Access Platform with Stair - Double.r3d



Loads: BLC 6, Seismic Z
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Typical Ramp and Landing	SK-10
	AMP		Dec 27, 2024 at 11:01 AM
	2241015.20		Access Platform with Stair - Double.r3d

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	N1	5	0	5	
2	N2	20	0	10	
3	N3	10	0	10	
4	N4	5	0	10	
5	N5	0	0	10	
6	N6	28	0	7	
7	N7	28	0	3	
8	N8	0	0	5	
9	N9	0	0	0	
10	N10	10	0	5	
11	N11	20	0	5	
12	N12	15	0	10	
13	N13	15	0	5	
14	N14	5	0	0	
15	N15	10	0	0	
16	N16	15	0	0	
17	N17	20	0	0	
18	N18	24	0	3	
19	N19	24	0	7	
20	N20	27	0.83375	7	
21	N21	27	0.83375	3	
22	N22	26	1.6675	7	
23	N23	26	1.6675	3	
24	N24	25	2.50125	3	
25	N25	25	2.50125	7	
26	N26	24	3.3	3	
27	N27	24	3.3	7	
28	N28	20	3.3	2.5	
29	N29	23	4.1075	7	
30	N30	23	4.1075	3	
31	N31	22	4.94125	7	
32	N32	22	4.94125	3	
33	N33	21	5.775	7	
34	N34	21	5.775	3	
35	N35	20	6.6	10	
36	N36	5	6.6	5.1	
37	N37	15	6.6	0	
38	N38	20	6.6	0	
39	N39	10	6.6	5	
40	N40	15	6.6	5	
41	N41	20	6.6	5	
42	N42	0	6.6	0	
43	N43	5	6.6	5	
44	N44	5	6.6	0	
45	N45	10	6.6	5.1	
46	N46	20	6.6	3	
47	N47	0	6.6	5.1	
48	N48	20	6.6	5.1	
49	N49	15	6.6	5.1	
50	N50	10	6.6	10	
51	N51	15	6.6	10	
52	N52	20	6.6	7	
53	N53	5	6.6	10	
54	N54	0	6.6	10	
55	N55	0	6.6	5	

Node Coordinates (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
56	N56	10	6.6	0	
57	N57	-5	0	5	
58	N58	-5	0	10	
59	N59	-10	0	10	
60	N60	-10	0	5	
61	N61	-10	0	0	
62	N62	-5	0	0	
63	N63	-10	3.3	2.5	
64	N64	-5	6.6	5.1	
65	N65	-10	6.6	0	
66	N66	-5	6.6	5	
67	N67	-5	6.6	0	
68	N68	-10	6.6	5.1	
69	N69	-5	6.6	10	
70	N70	-10	6.6	10	
71	N71	-10	6.6	5	
72	N72	5	3.3	7.5	
73	N73	7.5	3.3	0	
74	N74	7.5	3.3	10	

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
1	N17	Reaction	Reaction	Reaction
2	N16	Reaction	Reaction	Reaction
3	N15	Reaction	Reaction	Reaction
4	N14	Reaction	Reaction	Reaction
5	N13	Reaction	Reaction	Reaction
6	N11	Reaction	Reaction	Reaction
7	N10	Reaction	Reaction	Reaction
8	N1	Reaction	Reaction	Reaction
9	N9	Reaction	Reaction	Reaction
10	N8	Reaction	Reaction	Reaction
11	N12	Reaction	Reaction	Reaction
12	N2	Reaction	Reaction	Reaction
13	N3	Reaction	Reaction	Reaction
14	N4	Reaction	Reaction	Reaction
15	N5	Reaction	Reaction	Reaction
16	N7		Reaction	Reaction
17	N6		Reaction	Reaction
18	N18	Reaction	Reaction	Reaction
19	N19	Reaction	Reaction	Reaction
20	N57	Reaction	Reaction	Reaction
21	N58	Reaction	Reaction	Reaction
22	N59	Reaction	Reaction	Reaction
23	N60	Reaction	Reaction	Reaction
24	N61	Reaction	Reaction	Reaction
25	N62	Reaction	Reaction	Reaction

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e^{5}°F^{-1}]	Density [k/ft^{3}]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1

Hot Rolled Steel Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Ry	Fu [ksi]	Rt
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	0.3	0.65	0.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	0.3	0.65	0.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
9	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1

Cold Formed Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Fu [ksi]
1	A653 SS Gr33	29500	11346	0.3	0.65	0.49	33	45
2	A653 SS Gr50/1	29500	11346	0.3	0.65	0.49	50	65

Wood Properties

	Label	Type	Database	Species	Grade	Cm	Ci	Emod	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]
1	DF	Solid Sawn	Visually Graded	Douglas Fir-Larch	No.1			1	0.3	0.3	0.035
2	SP	Solid Sawn	Visually Graded	Southern Pine	No.1			1	0.3	0.3	0.035
3	HF	Solid Sawn	Visually Graded	Hem-Fir	No.1			1	0.3	0.3	0.035
4	SPF	Solid Sawn	Visually Graded	Spruce-Pine-fir	No.1			1	0.3	0.3	0.035
5	24F-1.8E DF Balanced	Glulam	NDS Table 5A	24F-1.8E_DF_BAL	na			1	0.3	0.3	0.035
6	24F-1.8E DF Unbalanced	Glulam	NDS Table 5A	24F-1.8E_DF_UNBAL	na			1	0.3	0.3	0.035
7	24F-1.8E SP Balanced	Glulam	NDS Table 5A	24F-1.8E_SP_BAL	na			1	0.3	0.3	0.035
8	24F-1.8E SP Unbalanced	Glulam	NDS Table 5A	24F-1.8E_SP_UNBAL	na			1	0.3	0.3	0.035
9	1.3E-1600F_VERSALAM	SCL	Boise Cascade	1.3E-1600F_VERSALAM	na			1	0.3	0.3	0.035
10	1.35E LSL_SolidStart	SCL	Louisiana Pacific	1.35E LSL_SolidStart	na			1	0.3	0.3	0.035
11	1.3E_RIGIDLAM LVL	SCL	Roseburg Forest Products_2012	1.3E_RIGIDLAM LVL	na			1	0.3	0.3	0.035
12	2.0E_DF Parallam PSL	SCL	TrusJoist	2.0E_DF Parallam PSL	na			1	0.3	0.3	0.035
13	LVL_PRL_1.5E_2250F	Custom	N/A	LVL_PRL_1.5E_2250F	na			1	0.3	0.3	0.035
14	LVL_Microlam_1.9E_2600F	Custom	N/A	LVL_Microllam_1.9E_2600F	na			1	0.3	0.3	0.035
15	PSL_Parallam_2.0E_2900F	Custom	N/A	PSL_Parallam_2.0E_2900F	na			1	0.3	0.3	0.035
16	LSL_TimberStrand_1.55E_2325F	Custom	N/A	LSL_TimberStrand_1.55E_2325F	na			1	0.3	0.3	0.035

Concrete Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	f'c [ksi]	Lambda	Flex Steel [ksi]	Shear Steel [ksi]
1	Conc3000NW	3156	1372	0.15	0.6	0.145	3	1	60	60
2	Conc3500NW	3409	1482	0.15	0.6	0.145	3.5	1	60	60
3	Conc4000NW	3644	1584	0.15	0.6	0.145	4	1	60	60
4	Conc3000LW	2085	907	0.15	0.6	0.11	3	0.75	60	60
5	Conc3500LW	2252	979	0.15	0.6	0.11	3.5	0.75	60	60
6	Conc4000LW	2408	1047	0.15	0.6	0.11	4	0.75	60	60

Masonry Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Self Weight [k/ft³]	f'm [ksi]	Flex Steel [ksi]	Shear Steel [ksi]
1	Concrete Matl	1350	540	0.25	0.6	Custom	1.5	60	60
2	Clay Matl	1050	420	0.25	0.6	Custom	1.5	60	60
3	Gen Masonry	1050	420	0.25	0.6	0.08	1.5	60	60

Aluminum Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Table B.4	kt	Ftu [ksi]	Fty [ksi]	Fcy [ksi]	Fsu [ksi]	Ct
1	3003-H14	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	19	16	13	12	141
2	6061-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	38	35	35	24	141
3	6063-T5	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	22	16	16	13	141
4	6063-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	30	25	25	19	141
5	5052-H34	10200	3787.5	0.33	1.3	0.173	Table B.4-1	1	34	26	24	20	141
6	6061-T6 W	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	24	15	15	15	141

Stainless Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	n	Yield [ksi]	Fu [ksi]
1	A276 S316	28000	10780	0.3	0.93	0.5	5.6	30	75
2	A276 S321	29000	11165	0.3	0.73	0.48	5.6	65	94
3	A276 S304	28000	10780	0.3	0.93	0.49	5.6	30	75

General Materials Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Plate Methodology
1	gen_Conc3NW	3155	1372	0.15	0.6	0.145	Isotropic
2	gen_Conc4NW	3644	1584	0.15	0.6	0.145	Isotropic
3	gen_Conc3LW	2085	906	0.15	0.6	0.11	Isotropic
4	gen_Conc4LW	2408	1047	0.15	0.6	0.11	Isotropic
5	gen_Alum	10100	4077	0.3	1.29	0.173	Isotropic
6	gen_Steel	29000	11154	0.3	0.65	0.49	Isotropic
7	gen_Plywood	1800	38	0	0.3	0.035	Isotropic
8	RIGID	1e+6		0.3	0	0	Isotropic
9	gen_Ortho				0.65	0.49	Orthotropic

Cold Formed Steel Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Stair Tread	1200S200-97	Beam	CS	A653 SS Gr50/1	Typical	1.68	0.635	30.4	0.006

Aluminum Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Ramp Header	RT1.5X1.5X.120	Beam	None	6061-T6	Typical	0.662	0.212	0.212	0.315
2	Ramp Stringer	L4X2X1/4	Beam	None	6061-T6	Typical	1.438	0.421	2.406	0.028
3	Ramp End Member	EDGEBEAM	Beam	None	6061-T6	Typical	1.438	1.336	0.421	0.03
4	Stair Stringer	0.25X8STRINGER	Beam	None	6061-T6	Typical	2	0.01	10.667	0.041
5	RAILING	RT1.5X1.5X0.125	Beam	None	6063-T5	Typical	0.688	0.218	0.218	0.325
6	Post	RT2X2X0.125	Column	Rectangular Tubes	6061-T6	Typical	0.938	0.552	0.552	0.824
7	Landing Edge Bm	EDGEBEAM	Beam	None	6061-T6	Typical	1.438	1.336	0.421	0.03
8	L Brace	L2X2X0.25	VBrace	None	6061-T6	Typical	0.944	0.342	0.342	0.018

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N15	N56		Post	Column	Rectangular Tubes	6061-T6	Typical
2	M2	N17	N38		Post	Column	Rectangular Tubes	6061-T6	Typical
3	M3	N10	N39		Post	Column	Rectangular Tubes	6061-T6	Typical
4	M4	N11	N41		Post	Column	Rectangular Tubes	6061-T6	Typical
5	M5	N43	N44	270	Landing Edge Bm	Beam	None	6061-T6	Typical
6	M6	N39	N43	270	Landing Edge Bm	Beam	None	6061-T6	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
7	M7	N40	N39	270	Landing Edge Bm	Beam	None	6061-T6	Typical
8	M8	N41	N40	270	Landing Edge Bm	Beam	None	6061-T6	Typical
9	M9	N44	N56	270	Landing Edge Bm	Beam	None	6061-T6	Typical
10	M10	N56	N37	270	Landing Edge Bm	Beam	None	6061-T6	Typical
11	M11	N37	N38	270	Landing Edge Bm	Beam	None	6061-T6	Typical
12	M12	N39	N56	270	Landing Edge Bm	Beam	None	6061-T6	Typical
13	M13	N40	N37	270	Landing Edge Bm	Beam	None	6061-T6	Typical
14	M14	N38	N46	270	Landing Edge Bm	Beam	None	6061-T6	Typical
15	M15	N9	N42		Post	Column	Rectangular Tubes	6061-T6	Typical
16	M16	N8	N55		Post	Column	Rectangular Tubes	6061-T6	Typical
17	M17	N55	N42	270	Landing Edge Bm	Beam	None	6061-T6	Typical
18	M18	N43	N55	270	Landing Edge Bm	Beam	None	6061-T6	Typical
19	M19	N42	N44	270	Landing Edge Bm	Beam	None	6061-T6	Typical
20	M20	N41	N28		L Brace	VBrace	None	6061-T6	Typical
21	M21	N46	N41	270	Landing Edge Bm	Beam	None	6061-T6	Typical
22	M22	N14	N44		Post	Column	Rectangular Tubes	6061-T6	Typical
23	M23	N16	N37		Post	Column	Rectangular Tubes	6061-T6	Typical
24	M24	N1	N43		Post	Column	Rectangular Tubes	6061-T6	Typical
25	M25	N13	N40		Post	Column	Rectangular Tubes	6061-T6	Typical
26	M26	N11	N28		L Brace	VBrace	None	6061-T6	Typical
27	M27	N28	N38		L Brace	VBrace	None	6061-T6	Typical
28	M28	N28	N17		L Brace	VBrace	None	6061-T6	Typical
29	M29	N3	N50		Post	Column	Rectangular Tubes	6061-T6	Typical
30	M30	N2	N35		Post	Column	Rectangular Tubes	6061-T6	Typical
31	M31	N53	N36	270	Landing Edge Bm	Beam	None	6061-T6	Typical
32	M32	N50	N53	270	Landing Edge Bm	Beam	None	6061-T6	Typical
33	M33	N51	N50	270	Landing Edge Bm	Beam	None	6061-T6	Typical
34	M34	N35	N51	270	Landing Edge Bm	Beam	None	6061-T6	Typical
35	M35	N50	N45	270	Landing Edge Bm	Beam	None	6061-T6	Typical
36	M36	N51	N49	270	Landing Edge Bm	Beam	None	6061-T6	Typical
37	M37	N5	N54		Post	Column	Rectangular Tubes	6061-T6	Typical
38	M38	N54	N47	270	Landing Edge Bm	Beam	None	6061-T6	Typical
39	M39	N53	N54	270	Landing Edge Bm	Beam	None	6061-T6	Typical
40	M40	N41	N48	270	Landing Edge Bm	Beam	None	6061-T6	Typical
41	M41	N4	N53		Post	Column	Rectangular Tubes	6061-T6	Typical
42	M42	N12	N51		Post	Column	Rectangular Tubes	6061-T6	Typical
43	M43	N46	N34		Stair Stringer	Beam	None	6061-T6	Typical
44	M44	N52	N33		Stair Stringer	Beam	None	6061-T6	Typical
45	M45	N34	N32		Stair Stringer	Beam	None	6061-T6	Typical
46	M46	N33	N31		Stair Stringer	Beam	None	6061-T6	Typical
47	M47	N31	N29		Stair Stringer	Beam	None	6061-T6	Typical
48	M48	N32	N30		Stair Stringer	Beam	None	6061-T6	Typical
49	M49	N29	N27		Stair Stringer	Beam	None	6061-T6	Typical
50	M50	N30	N26		Stair Stringer	Beam	None	6061-T6	Typical
51	M51	N27	N25		Stair Stringer	Beam	None	6061-T6	Typical
52	M52	N26	N24		Stair Stringer	Beam	None	6061-T6	Typical
53	M53	N25	N22		Stair Stringer	Beam	None	6061-T6	Typical
54	M54	N24	N23		Stair Stringer	Beam	None	6061-T6	Typical
55	M55	N22	N20		Stair Stringer	Beam	None	6061-T6	Typical
56	M56	N23	N21		Stair Stringer	Beam	None	6061-T6	Typical
57	M57	N20	N6		Stair Stringer	Beam	None	6061-T6	Typical
58	M58	N21	N7		Stair Stringer	Beam	None	6061-T6	Typical
59	M59	N33	N34	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
60	M60	N31	N32	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
61	M61	N29	N30	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
62	M62	N27	N26	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
63	M63	N25	N24	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
64	M64	N22	N23	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
65	M65	N20	N21	90	Stair Tread	Beam	CS	A653 SS Gr50/1	Typical
66	M66	N18	N26		Post	Column	Rectangular Tubes	6061-T6	Typical
67	M67	N19	N27		Post	Column	Rectangular Tubes	6061-T6	Typical
68	M68	N52	N35	270	Landing Edge Bm	Beam	None	6061-T6	Typical
69	M69	N45	N36	90	Landing Edge Bm	Beam	None	6061-T6	Typical
70	M70	N49	N45	90	Landing Edge Bm	Beam	None	6061-T6	Typical
71	M71	N48	N49	90	Landing Edge Bm	Beam	None	6061-T6	Typical
72	M72	N36	N47	90	Landing Edge Bm	Beam	None	6061-T6	Typical
73	M73	N36	N43	270	Landing Edge Bm	Beam	None	6061-T6	Typical
74	M74	N45	N39	270	Landing Edge Bm	Beam	None	6061-T6	Typical
75	M75	N49	N40	270	Landing Edge Bm	Beam	None	6061-T6	Typical
76	M76	N47	N55	270	Landing Edge Bm	Beam	None	6061-T6	Typical
77	M77	N48	N52	270	Landing Edge Bm	Beam	None	6061-T6	Typical
78	M78	N66	N67	270	Landing Edge Bm	Beam	None	6061-T6	Typical
79	M79	N55	N66	270	Landing Edge Bm	Beam	None	6061-T6	Typical
80	M80	N67	N42	270	Landing Edge Bm	Beam	None	6061-T6	Typical
81	M81	N61	N65		Post	Column	Rectangular Tubes	6061-T6	Typical
82	M82	N60	N71		Post	Column	Rectangular Tubes	6061-T6	Typical
83	M83	N71	N65	270	Landing Edge Bm	Beam	None	6061-T6	Typical
84	M84	N66	N71	270	Landing Edge Bm	Beam	None	6061-T6	Typical
85	M85	N65	N67	270	Landing Edge Bm	Beam	None	6061-T6	Typical
86	M86	N71	N63		L Brace	VBrace	None	6061-T6	Typical
87	M87	N62	N67		Post	Column	Rectangular Tubes	6061-T6	Typical
88	M88	N57	N66		Post	Column	Rectangular Tubes	6061-T6	Typical
89	M89	N60	N63		L Brace	VBrace	None	6061-T6	Typical
90	M90	N63	N65		L Brace	VBrace	None	6061-T6	Typical
91	M91	N63	N61		L Brace	VBrace	None	6061-T6	Typical
92	M92	N69	N64	270	Landing Edge Bm	Beam	None	6061-T6	Typical
93	M93	N54	N69	270	Landing Edge Bm	Beam	None	6061-T6	Typical
94	M94	N59	N70		Post	Column	Rectangular Tubes	6061-T6	Typical
95	M95	N70	N68	270	Landing Edge Bm	Beam	None	6061-T6	Typical
96	M96	N69	N70	270	Landing Edge Bm	Beam	None	6061-T6	Typical
97	M97	N58	N69		Post	Column	Rectangular Tubes	6061-T6	Typical
98	M98	N47	N64	90	Landing Edge Bm	Beam	None	6061-T6	Typical
99	M99	N64	N68	90	Landing Edge Bm	Beam	None	6061-T6	Typical
100	M100	N64	N66	270	Landing Edge Bm	Beam	None	6061-T6	Typical
101	M101	N68	N71	270	Landing Edge Bm	Beam	None	6061-T6	Typical
102	M102	N53	N72		L Brace	VBrace	None	6061-T6	Typical
103	M103	N4	N72		L Brace	VBrace	None	6061-T6	Typical
104	M104	N72	N43		L Brace	VBrace	None	6061-T6	Typical
105	M105	N72	N1		L Brace	VBrace	None	6061-T6	Typical
106	M106	N15	N73		L Brace	VBrace	None	6061-T6	Typical
107	M107	N14	N73		L Brace	VBrace	None	6061-T6	Typical
108	M108	N3	N74		L Brace	VBrace	None	6061-T6	Typical
109	M109	N4	N74		L Brace	VBrace	None	6061-T6	Typical
110	M110	N73	N56		L Brace	VBrace	None	6061-T6	Typical
111	M111	N73	N44		L Brace	VBrace	None	6061-T6	Typical
112	M112	N74	N50		L Brace	VBrace	None	6061-T6	Typical
113	M113	N74	N53		L Brace	VBrace	None	6061-T6	Typical

Member Advanced Data

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
1	M1					** NA **	None
2	M2					** NA **	None
3	M3					** NA **	None
4	M4					** NA **	None
5	M5	BenPIN	BenPIN			Default	None
6	M6	BenPIN	BenPIN			Default	None
7	M7	BenPIN	BenPIN			Default	None
8	M8	BenPIN	BenPIN			Default	None
9	M9	BenPIN	BenPIN			Default	None
10	M10	BenPIN	BenPIN			Default	None
11	M11	BenPIN	BenPIN			Default	None
12	M12	BenPIN	BenPIN			Default	None
13	M13	BenPIN	BenPIN			Default	None
14	M14	BenPIN				Default	None
15	M15					** NA **	None
16	M16					** NA **	None
17	M17	BenPIN	BenPIN			Default	None
18	M18	BenPIN	BenPIN			Default	None
19	M19	BenPIN	BenPIN			Default	None
20	M20	BenPIN				** NA **	None
21	M21					Default	None
22	M22					** NA **	None
23	M23					** NA **	None
24	M24					** NA **	None
25	M25					** NA **	None
26	M26	BenPIN	BenPIN			** NA **	None
27	M27	BenPIN	BenPIN			** NA **	None
28	M28		BenPIN			** NA **	None
29	M29					** NA **	None
30	M30					** NA **	None
31	M31	BenPIN				Default	None
32	M32	BenPIN	BenPIN			Default	None
33	M33	BenPIN	BenPIN			Default	None
34	M34	BenPIN	BenPIN			Default	None
35	M35	BenPIN				Default	None
36	M36	BenPIN				Default	None
37	M37					** NA **	None
38	M38	BenPIN				Default	None
39	M39	BenPIN	BenPIN			Default	None
40	M40					Default	None
41	M41					** NA **	None
42	M42					** NA **	None
43	M43	BenPIN				Default	None
44	M44	BenPIN				Default	None
45	M45					Default	None
46	M46					Default	None
47	M47					Default	None
48	M48					Default	None
49	M49					Default	None
50	M50					Default	None
51	M51					Default	None
52	M52					Default	None
53	M53					Default	None
54	M54					Default	None
55	M55					Default	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
56	M56					Default	None
57	M57					Default	None
58	M58					Default	None
59	M59					Default	None
60	M60					Default	None
61	M61					Default	None
62	M62					Default	None
63	M63					Default	None
64	M64					Default	None
65	M65					Default	None
66	M66		BenPIN			** NA **	None
67	M67		BenPIN			** NA **	None
68	M68					Default	None
69	M69	BenPIN	BenPIN			Default	None
70	M70	BenPIN	BenPIN			Default	None
71	M71	BenPIN	BenPIN			Default	None
72	M72	BenPIN	BenPIN			Default	None
73	M73		BenPIN			Default	None
74	M74		BenPIN			Default	None
75	M75		BenPIN			Default	None
76	M76		BenPIN			Default	None
77	M77					Default	None
78	M78	BenPIN	BenPIN			Default	None
79	M79	BenPIN	BenPIN			Default	None
80	M80	BenPIN	BenPIN			Default	None
81	M81					** NA **	None
82	M82					** NA **	None
83	M83	BenPIN	BenPIN			Default	None
84	M84	BenPIN	BenPIN			Default	None
85	M85	BenPIN	BenPIN			Default	None
86	M86	BenPIN				** NA **	None
87	M87					** NA **	None
88	M88					** NA **	None
89	M89	BenPIN	BenPIN			** NA **	None
90	M90	BenPIN	BenPIN			** NA **	None
91	M91		BenPIN			** NA **	None
92	M92	BenPIN				Default	None
93	M93	BenPIN	BenPIN			Default	None
94	M94					** NA **	None
95	M95	BenPIN				Default	None
96	M96	BenPIN	BenPIN			Default	None
97	M97					** NA **	None
98	M98	BenPIN	BenPIN			Default	None
99	M99	BenPIN	BenPIN			Default	None
100	M100		BenPIN			Default	None
101	M101		BenPIN			Default	None
102	M102	BenPIN	BenPIN			** NA **	None
103	M103	BenPIN				** NA **	None
104	M104		BenPIN			** NA **	None
105	M105	BenPIN	BenPIN			** NA **	None
106	M106	BenPIN				** NA **	None
107	M107	BenPIN	BenPIN			** NA **	None
108	M108	BenPIN	BenPIN			** NA **	None
109	M109	BenPIN				** NA **	None
110	M110	BenPIN	BenPIN			** NA **	None

Member Advanced Data (Continued)

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
111	M111		BenPIN			** NA **	None
112	M112		BenPIN			** NA **	None
113	M113	BenPIN	BenPIN			** NA **	None

Cold Formed Steel Design Parameters

	Label	Shape	Length [ft]	Lcomp top [ft]	Function
1	M59	Stair Tread	4	Lbyy	Lateral
2	M60	Stair Tread	4	Lbyy	Lateral
3	M61	Stair Tread	4	Lbyy	Lateral
4	M62	Stair Tread	4	Lbyy	Lateral
5	M63	Stair Tread	4	Lbyy	Lateral
6	M64	Stair Tread	4	Lbyy	Lateral
7	M65	Stair Tread	4	Lbyy	Lateral

Aluminum Design Parameters

	Label	Shape	Length [ft]	Lb y-y [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
1	M1	Post	6.6		Lbyy		Lateral
2	M2	Post	6.6		Lbyy		Lateral
3	M3	Post	6.6		Lbyy		Lateral
4	M4	Post	6.6		Lbyy		Lateral
5	M5	Landing Edge Bm	5		Lbyy		Lateral
6	M6	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
7	M7	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
8	M8	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
9	M9	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
10	M10	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
11	M11	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
12	M12	Landing Edge Bm	5		Lbyy		Lateral
13	M13	Landing Edge Bm	5		Lbyy		Lateral
14	M14	Landing Edge Bm	3		Lbyy		Lateral
15	M15	Post	6.6		Lbyy		Lateral
16	M16	Post	6.6		Lbyy		Lateral
17	M17	Landing Edge Bm	5		Lbyy		Lateral
18	M18	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
19	M19	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
20	M20	L Brace	4.14		Lbyy		Lateral
21	M21	Landing Edge Bm	2		Lbyy		Lateral
22	M22	Post	6.6		Lbyy		Lateral
23	M23	Post	6.6		Lbyy		Lateral
24	M24	Post	6.6		Lbyy		Lateral
25	M25	Post	6.6		Lbyy		Lateral
26	M26	L Brace	4.14		Lbyy		Lateral
27	M27	L Brace	4.14		Lbyy		Lateral
28	M28	L Brace	4.14		Lbyy		Lateral
29	M29	Post	6.6		Lbyy		Lateral
30	M30	Post	6.6		Lbyy		Lateral
31	M31	Landing Edge Bm	4.9		Lbyy		Lateral
32	M32	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
33	M33	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
34	M34	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
35	M35	Landing Edge Bm	4.9		Lbyy		Lateral
36	M36	Landing Edge Bm	4.9		Lbyy		Lateral
37	M37	Post	6.6		Lbyy		Lateral

Aluminum Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
38	M38	Landing Edge Bm	4.9		Lbyy		Lateral
39	M39	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
40	M40	Landing Edge Bm	0.1		Lbyy		Lateral
41	M41	Post	6.6		Lbyy		Lateral
42	M42	Post	6.6		Lbyy		Lateral
43	M43	Stair Stringer	1.296	1	Lbyy	Lbyy	Lateral
44	M44	Stair Stringer	1.296	1	Lbyy	Lbyy	Lateral
45	M45	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
46	M46	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
47	M47	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
48	M48	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
49	M49	Stair Stringer	1.285	1	Lbyy	Lbyy	Lateral
50	M50	Stair Stringer	1.285	1	Lbyy	Lbyy	Lateral
51	M51	Stair Stringer	1.28	1	Lbyy	Lbyy	Lateral
52	M52	Stair Stringer	1.28	1	Lbyy	Lbyy	Lateral
53	M53	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
54	M54	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
55	M55	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
56	M56	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
57	M57	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
58	M58	Stair Stringer	1.302	1	Lbyy	Lbyy	Lateral
59	M66	Post	3.3		Lbyy		Lateral
60	M67	Post	3.3		Lbyy		Lateral
61	M68	Landing Edge Bm	3		Lbyy		Lateral
62	M69	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
63	M70	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
64	M71	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
65	M72	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
66	M73	Landing Edge Bm	0.1		Lbyy		Lateral
67	M74	Landing Edge Bm	0.1		Lbyy		Lateral
68	M75	Landing Edge Bm	0.1		Lbyy		Lateral
69	M76	Landing Edge Bm	0.1		Lbyy		Lateral
70	M77	Landing Edge Bm	1.9		Lbyy		Lateral
71	M78	Landing Edge Bm	5		Lbyy		Lateral
72	M79	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
73	M80	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
74	M81	Post	6.6		Lbyy		Lateral
75	M82	Post	6.6		Lbyy		Lateral
76	M83	Landing Edge Bm	5		Lbyy		Lateral
77	M84	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
78	M85	Landing Edge Bm	5	1	Lbyy	Lbyy	Lateral
79	M86	L Brace	4.14		Lbyy		Lateral
80	M87	Post	6.6		Lbyy		Lateral
81	M88	Post	6.6		Lbyy		Lateral
82	M89	L Brace	4.14		Lbyy		Lateral
83	M90	L Brace	4.14		Lbyy		Lateral
84	M91	L Brace	4.14		Lbyy		Lateral
85	M92	Landing Edge Bm	4.9		Lbyy		Lateral
86	M93	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
87	M94	Post	6.6		Lbyy		Lateral
88	M95	Landing Edge Bm	4.9		Lbyy		Lateral
89	M96	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
90	M97	Post	6.6		Lbyy		Lateral
91	M98	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral
92	M99	Landing Edge Bm	5	2	Lbyy	Lbyy	Lateral

Aluminum Design Parameters (Continued)

	Label	Shape	Length [ft]	Lb y-y [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
93	M100	Landing Edge Bm	0.1		Lbyy		Lateral
94	M101	Landing Edge Bm	0.1		Lbyy		Lateral
95	M102	L Brace	4.14		Lbyy		Lateral
96	M103	L Brace	4.14		Lbyy		Lateral
97	M104	L Brace	4.14		Lbyy		Lateral
98	M105	L Brace	4.14		Lbyy		Lateral
99	M106	L Brace	4.14		Lbyy		Lateral
100	M107	L Brace	4.14		Lbyy		Lateral
101	M108	L Brace	4.14		Lbyy		Lateral
102	M109	L Brace	4.14		Lbyy		Lateral
103	M110	L Brace	4.14		Lbyy		Lateral
104	M111	L Brace	4.14		Lbyy		Lateral
105	M112	L Brace	4.14		Lbyy		Lateral
106	M113	L Brace	4.14		Lbyy		Lateral

Plate Primary Data

	Label	A Node	B Node	C Node	D Node	Material	Thickness [in]
1	P1	N43	N44	N56	N39	gen_Steel	0.03
2	P2	N39	N56	N37	N40	gen_Steel	0.03
3	P3	N40	N37	N38	N41	gen_Steel	0.03
4	P4	N55	N42	N44	N43	gen_Steel	0.03
5	P5	N53	N43	N39	N50	gen_Steel	0.03
6	P6	N50	N39	N40	N51	gen_Steel	0.03
7	P7	N51	N40	N41	N35	gen_Steel	0.03
8	P8	N54	N55	N43	N53	gen_Steel	0.03
9	P9	N7	N6	N27	N26	gen_Steel	0.03
10	P10	N27	N52	N46	N26	gen_Steel	0.03
11	P11	N66	N67	N42	N55	gen_Steel	0.03
12	P12	N71	N65	N67	N66	gen_Steel	0.03
13	P13	N69	N66	N55	N54	gen_Steel	0.03
14	P14	N70	N71	N66	N69	gen_Steel	0.03

Plate Advanced Data

	Label	Plane Stress	Rotate
1	P1		0
2	P2		0
3	P3		0
4	P4		0
5	P5		0
6	P6		0
7	P7		0
8	P8		0
9	P9		0
10	P10		0
11	P11		0
12	P12		0
13	P13		0
14	P14		0

Nodal Loads and Enforced Displacements

No Data to Print...

Member Point Loads

No Data to Print...

Member Distributed Loads (BLC 1 : Dead)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M19	Y	-25	-25	0	%100
2	M9	Y	-25	-25	0	%100
3	M10	Y	-25	-25	0	%100
4	M11	Y	-25	-25	0	%100
5	M34	Y	-25	-25	0	%100
6	M33	Y	-25	-25	0	%100
7	M32	Y	-25	-25	0	%100
8	M39	Y	-25	-25	0	%100
9	M68	Y	-25	-25	0	%100
10	M14	Y	-25	-25	0	%100
11	M80	Y	-25	-25	0	%100
12	M83	Y	-25	-25	0	%100
13	M85	Y	-25	-25	0	%100
14	M93	Y	-25	-25	0	%100
15	M95	Y	-25	-25	0	%100
16	M96	Y	-25	-25	0	%100

Member Distributed Loads (BLC 3 : Wind X)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M95	X	20	20	0	%100
2	M14	X	20	20	0	%100
3	M21	X	20	20	0	%100
4	M83	X	20	20	0	%100
5	M77	X	20	20	0	%100
6	M68	X	20	20	0	%100
7	M43	PX	40	40	0	%100
8	M45	PX	40	40	0	%100
9	M48	PX	40	40	0	%100
10	M50	PX	40	40	0	%100
11	M52	PX	40	40	0	%100
12	M54	PX	40	40	0	%100
13	M56	PX	40	40	0	%100
14	M58	PX	40	40	0	%100
15	M44	PX	40	40	0	%100
16	M46	PX	40	40	0	%100
17	M47	PX	40	40	0	%100
18	M49	PX	40	40	0	%100
19	M51	PX	40	40	0	%100
20	M53	PX	40	40	0	%100
21	M55	PX	40	40	0	%100
22	M57	PX	40	40	0	%100

Member Distributed Loads (BLC 4 : Wind Z)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M19	Z	10	10	0	%100
2	M9	Z	10	10	0	%100
3	M10	Z	10	10	0	%100
4	M11	Z	10	10	0	%100
5	M34	Z	10	10	0	%100
6	M33	Z	10	10	0	%100
7	M32	Z	10	10	0	%100
8	M39	Z	10	10	0	%100
9	M93	Z	10	10	0	%100
10	M80	Z	10	10	0	%100
11	M96	Z	10	10	0	%100
12	M85	Z	10	10	0	%100
13	M43	Z	10	10	0	%100
14	M45	Z	10	10	0	%100
15	M48	Z	10	10	0	%100
16	M50	Z	10	10	0	%100
17	M52	Z	10	10	0	%100
18	M54	Z	10	10	0	%100
19	M56	Z	10	10	0	%100
20	M58	Z	10	10	0	%100
21	M44	Z	10	10	0	%100
22	M46	Z	10	10	0	%100
23	M47	Z	10	10	0	%100
24	M49	Z	10	10	0	%100
25	M51	Z	10	10	0	%100
26	M53	Z	10	10	0	%100
27	M55	Z	10	10	0	%100
28	M57	Z	10	10	0	%100

Member Distributed Loads (BLC 8 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M6	Y	-25.285	-24.52	0	0.5
2	M6	Y	-24.52	-23.751	0.5	1
3	M6	Y	-23.751	-23.988	1	1.5
4	M6	Y	-23.988	-24.339	1.5	2
5	M6	Y	-24.339	-24.626	2	2.5
6	M6	Y	-24.626	-25.793	2.5	3
7	M6	Y	-25.793	-25.6	3	3.5
8	M6	Y	-25.6	-23.909	3.5	4
9	M6	Y	-23.909	-24.001	4	4.5
10	M6	Y	-24.001	-25.966	4.5	5
11	M7	Y	-25.3	-24.535	0	0.5
12	M7	Y	-24.535	-23.771	0.5	1
13	M7	Y	-23.771	-23.977	1	1.5
14	M7	Y	-23.977	-24.271	1.5	2
15	M7	Y	-24.271	-24.624	2	2.5
16	M7	Y	-24.624	-25.828	2.5	3
17	M7	Y	-25.828	-25.581	3	3.5
18	M7	Y	-25.581	-23.916	3.5	4
19	M7	Y	-23.916	-24.021	4	4.5
20	M7	Y	-24.021	-25.953	4.5	5
21	M8	Y	-25.991	-25.25	0	0.5
22	M8	Y	-25.25	-24.429	0.5	1
23	M8	Y	-24.429	-24.559	1	1.5

Member Distributed Loads (BLC 8 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
24	M8	Y	-24.559	-24.727	1.5	2
25	M8	Y	-24.727	-24.948	2	2.5
26	M8	Y	-24.948	-26.129	2.5	3
27	M8	Y	-26.129	-25.799	3	3.5
28	M8	Y	-25.799	-23.993	3.5	4
29	M8	Y	-23.993	-24.1	4	4.5
30	M8	Y	-24.1	-26.172	4.5	5
31	M9	Y	-25.88	-25.879	0	0.5
32	M9	Y	-25.879	-25.887	0.5	1
33	M9	Y	-25.887	-25.906	1	1.5
34	M9	Y	-25.906	-25.919	1.5	2
35	M9	Y	-25.919	-25.906	2	2.5
36	M9	Y	-25.906	-25.88	2.5	3
37	M9	Y	-25.88	-25.864	3	3.5
38	M9	Y	-25.864	-25.86	3.5	4
39	M9	Y	-25.86	-25.866	4	4.5
40	M9	Y	-25.866	-25.879	4.5	5
41	M10	Y	-25.908	-25.908	0.002	4.998
42	M11	Y	-25.521	-25.521	0.002	4.998
43	M18	Y	-25.185	-24.541	0	0.5
44	M18	Y	-24.541	-23.79	0.5	1
45	M18	Y	-23.79	-23.99	1	1.5
46	M18	Y	-23.99	-24.283	1.5	2
47	M18	Y	-24.283	-24.6	2	2.5
48	M18	Y	-24.6	-25.822	2.5	3
49	M18	Y	-25.822	-25.578	3	3.5
50	M18	Y	-25.578	-23.855	3.5	4
51	M18	Y	-23.855	-24.019	4	4.5
52	M18	Y	-24.019	-26.167	4.5	5
53	M19	Y	-25.88	-25.879	0	0.5
54	M19	Y	-25.879	-25.887	0.5	1
55	M19	Y	-25.887	-25.906	1	1.5
56	M19	Y	-25.906	-25.919	1.5	2
57	M19	Y	-25.919	-25.906	2	2.5
58	M19	Y	-25.906	-25.88	2.5	3
59	M19	Y	-25.88	-25.864	3	3.5
60	M19	Y	-25.864	-25.86	3.5	4
61	M19	Y	-25.86	-25.866	4	4.5
62	M19	Y	-25.866	-25.879	4.5	5
63	M32	Y	-25.467	-25.467	0.001	4.999
64	M33	Y	-25.468	-25.468	0.001	4.998
65	M34	Y	-24.979	-25.041	0	0.5
66	M34	Y	-25.041	-25.098	0.5	1
67	M34	Y	-25.098	-25.154	1	1.5
68	M34	Y	-25.154	-25.217	1.5	2
69	M34	Y	-25.217	-25.283	2	2.5
70	M34	Y	-25.283	-25.332	2.5	3
71	M34	Y	-25.332	-25.36	3	3.5
72	M34	Y	-25.36	-25.383	3.5	4
73	M34	Y	-25.383	-25.42	4	4.5
74	M34	Y	-25.42	-25.464	4.5	5
75	M39	Y	-25.467	-25.467	0.001	4.999
76	M69	Y	-25.424	-23.457	0	0.5
77	M69	Y	-23.457	-23.337	0.5	1
78	M69	Y	-23.337	-24.959	1	1.5

Member Distributed Loads (BLC 8 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
79	M69	Y	-24.959	-25.058	1.5	2
80	M69	Y	-25.058	-23.751	2	2.5
81	M69	Y	-23.751	-23.494	2.5	3
82	M69	Y	-23.494	-23.394	3	3.5
83	M69	Y	-23.394	-23.715	3.5	4
84	M69	Y	-23.715	-24.442	4	4.5
85	M69	Y	-24.442	-24.274	4.5	5
86	M70	Y	-25.433	-23.449	0	0.5
87	M70	Y	-23.449	-23.34	0.5	1
88	M70	Y	-23.34	-24.967	1	1.5
89	M70	Y	-24.967	-25.056	1.5	2
90	M70	Y	-25.056	-23.76	2	2.5
91	M70	Y	-23.76	-23.502	2.5	3
92	M70	Y	-23.502	-23.383	3	3.5
93	M70	Y	-23.383	-23.704	3.5	4
94	M70	Y	-23.704	-24.443	4	4.5
95	M70	Y	-24.443	-24.274	4.5	5
96	M71	Y	-25.917	-23.558	0	0.5
97	M71	Y	-23.558	-23.088	0.5	1
98	M71	Y	-23.088	-24.271	1	1.5
99	M71	Y	-24.271	-24.354	1.5	2
100	M71	Y	-24.354	-24.35	2	2.5
101	M71	Y	-24.35	-25.293	2.5	3
102	M71	Y	-25.293	-25.052	3	3.5
103	M71	Y	-25.052	-23.406	3.5	4
104	M71	Y	-23.406	-23.488	4	4.5
105	M71	Y	-23.488	-25.349	4.5	5
106	M72	Y	-25.27	-23.478	0	0.5
107	M72	Y	-23.478	-23.381	0.5	1
108	M72	Y	-23.381	-24.945	1	1.5
109	M72	Y	-24.945	-25.041	1.5	2
110	M72	Y	-25.041	-23.763	2	2.5
111	M72	Y	-23.763	-23.514	2.5	3
112	M72	Y	-23.514	-23.39	3	3.5
113	M72	Y	-23.39	-23.724	3.5	4
114	M72	Y	-23.724	-24.451	4	4.5
115	M72	Y	-24.451	-24.268	4.5	5
116	M79	Y	-25.185	-24.542	0	0.5
117	M79	Y	-24.542	-23.794	0.5	1
118	M79	Y	-23.794	-23.976	1	1.5
119	M79	Y	-23.976	-24.281	1.5	2
120	M79	Y	-24.281	-24.616	2	2.5
121	M79	Y	-24.616	-25.825	2.5	3
122	M79	Y	-25.825	-25.579	3	3.5
123	M79	Y	-25.579	-23.856	3.5	4
124	M79	Y	-23.856	-24.016	4	4.5
125	M79	Y	-24.016	-26.147	4.5	5
126	M80	Y	-25.908	-25.908	0.002	4.998
127	M84	Y	-25.296	-24.525	0	0.5
128	M84	Y	-24.525	-23.747	0.5	1
129	M84	Y	-23.747	-23.983	1	1.5
130	M84	Y	-23.983	-24.32	1.5	2
131	M84	Y	-24.32	-24.625	2	2.5
132	M84	Y	-24.625	-25.81	2.5	3
133	M84	Y	-25.81	-25.6	3	3.5

Member Distributed Loads (BLC 8 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
134	M84	Y	-25.6	-23.911	3.5	4
135	M84	Y	-23.911	-24.001	4	4.5
136	M84	Y	-24.001	-25.966	4.5	5
137	M85	Y	-25.88	-25.879	0	0.5
138	M85	Y	-25.879	-25.887	0.5	1
139	M85	Y	-25.887	-25.906	1	1.5
140	M85	Y	-25.906	-25.919	1.5	2
141	M85	Y	-25.919	-25.906	2	2.5
142	M85	Y	-25.906	-25.88	2.5	3
143	M85	Y	-25.88	-25.864	3	3.5
144	M85	Y	-25.864	-25.86	3.5	4
145	M85	Y	-25.86	-25.866	4	4.5
146	M85	Y	-25.866	-25.879	4.5	5
147	M93	Y	-25.468	-25.468	0.001	4.998
148	M96	Y	-25.468	-25.468	0.001	4.998
149	M98	Y	-25.297	-23.432	0	0.5
150	M98	Y	-23.432	-23.34	0.5	1
151	M98	Y	-23.34	-24.938	1	1.5
152	M98	Y	-24.938	-25.049	1.5	2
153	M98	Y	-25.049	-23.732	2	2.5
154	M98	Y	-23.732	-23.465	2.5	3
155	M98	Y	-23.465	-23.368	3	3.5
156	M98	Y	-23.368	-23.41	3.5	4
157	M98	Y	-23.41	-24.411	4	4.5
158	M98	Y	-24.411	-25.329	4.5	5
159	M99	Y	-25.435	-23.447	0	0.5
160	M99	Y	-23.447	-23.341	0.5	1
161	M99	Y	-23.341	-24.967	1	1.5
162	M99	Y	-24.967	-25.054	1.5	2
163	M99	Y	-25.054	-23.761	2	2.5
164	M99	Y	-23.761	-23.502	2.5	3
165	M99	Y	-23.502	-23.383	3	3.5
166	M99	Y	-23.383	-23.704	3.5	4
167	M99	Y	-23.704	-24.443	4	4.5
168	M99	Y	-24.443	-24.274	4.5	5
169	M21	Y	-7.92	-4.588	0	0.4
170	M21	Y	-4.588	-4.101	0.4	0.8
171	M21	Y	-4.101	-4.865	0.8	1.2
172	M21	Y	-4.865	-4.712	1.2	1.6
173	M21	Y	-4.712	-5.236	1.6	2
174	M40	Y	0.059	-2.692	0	0.05
175	M40	Y	-2.692	-5.677	0.05	0.1
176	M45	Y	-186.213	-186.213	0	0.125
177	M57	Y	-110.472	-110.472	1.177	1.302
178	M59	Y	-4.148	-4.2	0	0.5
179	M59	Y	-4.2	-4.243	0.5	1
180	M59	Y	-4.243	-4.064	1	1.5
181	M59	Y	-4.064	-4.762	1.5	2
182	M59	Y	-4.762	-4.561	2	2.5
183	M59	Y	-4.561	-3.842	2.5	3
184	M59	Y	-3.842	-4.209	3	3.5
185	M59	Y	-4.209	-4.195	3.5	4
186	M60	Y	-15	-15	3.747e-15	4
187	M62	Y	-24.957	-24.957	0	4
188	M65	Y	-21.674	-21.674	1.119e-14	0.25

Member Distributed Loads (BLC 8 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
189	M65	Y	-21.674	-21.674	0.25	0.5
190	M65	Y	-21.674	-21.674	0.5	0.75
191	M65	Y	-21.674	-22.511	0.75	1
192	M65	Y	-22.511	-22.511	1	1.25
193	M65	Y	-22.511	-20.837	1.25	1.5
194	M65	Y	-20.837	-20	1.5	1.75
195	M65	Y	-20	-20.837	1.75	2
196	M65	Y	-20.837	-21.674	2	2.25
197	M65	Y	-21.674	-21.674	2.25	2.5
198	M65	Y	-21.674	-21.674	2.5	2.75
199	M65	Y	-21.674	-21.674	2.75	3
200	M65	Y	-21.674	-21.674	3	3.25
201	M65	Y	-21.674	-21.674	3.25	3.5
202	M65	Y	-21.674	-21.674	3.5	3.75
203	M65	Y	-21.674	-21.674	3.75	4
204	M77	Y	-5.47	-4.954	0	0.38
205	M77	Y	-4.954	-4.846	0.38	0.76
206	M77	Y	-4.846	-3.962	0.76	1.14
207	M77	Y	-3.962	-4.647	1.14	1.52
208	M77	Y	-4.647	-8.084	1.52	1.9

Member Distributed Loads (BLC 9 : BLC 2 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M6	Y	-239.882	-243.394	1.5	2
2	M6	Y	-243.394	-246.262	2	2.5
3	M6	Y	-246.262	-257.933	2.5	3
4	M6	Y	-257.933	-256.002	3	3.5
5	M6	Y	-256.002	-239.089	3.5	4
6	M6	Y	-239.089	-240.014	4	4.5
7	M6	Y	-240.014	-259.661	4.5	5
8	M7	Y	-252.999	-245.35	0	0.5
9	M7	Y	-245.35	-237.705	0.5	1
10	M7	Y	-237.705	-239.772	1	1.5
11	M7	Y	-239.772	-242.707	1.5	2
12	M7	Y	-242.707	-246.241	2	2.5
13	M7	Y	-246.241	-258.281	2.5	3
14	M7	Y	-258.281	-255.807	3	3.5
15	M7	Y	-255.807	-239.164	3.5	4
16	M7	Y	-239.164	-240.207	4	4.5
17	M7	Y	-240.207	-259.527	4.5	5
18	M8	Y	-259.914	-252.502	0	0.5
19	M8	Y	-252.502	-244.289	0.5	1
20	M8	Y	-244.289	-245.595	1	1.5
21	M8	Y	-245.595	-247.269	1.5	2
22	M8	Y	-247.269	-249.481	2	2.5
23	M8	Y	-249.481	-261.293	2.5	3
24	M8	Y	-261.293	-257.987	3	3.5
25	M8	Y	-257.987	-239.932	3.5	4
26	M8	Y	-239.932	-241.003	4	4.5
27	M8	Y	-241.003	-261.723	4.5	5
28	M9	Y	-258.801	-258.791	0	0.5
29	M9	Y	-258.791	-258.869	0.5	1
30	M9	Y	-258.869	-259.062	1	1.5
31	M9	Y	-259.062	-259.19	1.5	2
32	M9	Y	-259.19	-259.062	2	2.5

Member Distributed Loads (BLC 9 : BLC 2 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
33	M9	Y	-259.062	-258.798	2.5	3
34	M9	Y	-258.798	-258.635	3	3.5
35	M9	Y	-258.635	-258.596	3.5	4
36	M9	Y	-258.596	-258.663	4	4.5
37	M9	Y	-258.663	-258.789	4.5	5
38	M10	Y	-259.079	-259.079	0.002	4.998
39	M11	Y	-255.211	-255.211	0.002	4.998
40	M18	Y	-251.852	-245.415	0	0.5
41	M18	Y	-245.415	-237.897	0.5	1
42	M18	Y	-237.897	-239.901	1	1.5
43	M18	Y	-239.901	-242.833	1.5	2
44	M18	Y	-242.833	-245.995	2	2.5
45	M18	Y	-245.995	-258.218	2.5	3
46	M18	Y	-258.218	-255.777	3	3.5
47	M18	Y	-255.777	-238.549	3.5	4
48	M18	Y	-238.549	-240.192	4	4.5
49	M18	Y	-240.192	-261.671	4.5	5
50	M19	Y	-258.801	-258.791	0	0.5
51	M19	Y	-258.791	-258.869	0.5	1
52	M19	Y	-258.869	-259.062	1	1.5
53	M19	Y	-259.062	-259.19	1.5	2
54	M19	Y	-259.19	-259.062	2	2.5
55	M19	Y	-259.062	-258.798	2.5	3
56	M19	Y	-258.798	-258.635	3	3.5
57	M19	Y	-258.635	-258.596	3.5	4
58	M19	Y	-258.596	-258.663	4	4.5
59	M19	Y	-258.663	-258.789	4.5	5
60	M32	Y	-254.672	-254.672	0.001	4.999
61	M33	Y	-254.681	-254.681	0.001	4.998
62	M34	Y	-249.793	-250.406	0	0.5
63	M34	Y	-250.406	-250.978	0.5	1
64	M34	Y	-250.978	-251.536	1	1.5
65	M34	Y	-251.536	-252.172	1.5	2
66	M34	Y	-252.172	-252.828	2	2.5
67	M34	Y	-252.828	-253.324	2.5	3
68	M34	Y	-253.324	-253.595	3	3.5
69	M34	Y	-253.595	-253.833	3.5	4
70	M34	Y	-253.833	-254.2	4	4.5
71	M34	Y	-254.2	-254.638	4.5	5
72	M39	Y	-254.672	-254.672	0.001	4.999
73	M69	Y	-254.243	-234.572	0	0.5
74	M69	Y	-234.572	-233.372	0.5	1
75	M69	Y	-233.372	-249.593	1	1.5
76	M69	Y	-249.593	-250.581	1.5	2
77	M69	Y	-250.581	-237.515	2	2.5
78	M69	Y	-237.515	-234.938	2.5	3
79	M69	Y	-234.938	-233.936	3	3.5
80	M69	Y	-233.936	-237.151	3.5	4
81	M69	Y	-237.151	-244.42	4	4.5
82	M69	Y	-244.42	-242.74	4.5	5
83	M70	Y	-254.332	-234.485	0	0.5
84	M70	Y	-234.485	-233.4	0.5	1
85	M70	Y	-233.4	-249.673	1	1.5
86	M70	Y	-249.673	-250.555	1.5	2
87	M70	Y	-250.555	-237.599	2	2.5

Member Distributed Loads (BLC 9 : BLC 2 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
88	M70	Y	-237.599	-235.024	2.5	3
89	M70	Y	-235.024	-233.829	3	3.5
90	M70	Y	-233.829	-237.037	3.5	4
91	M70	Y	-237.037	-244.427	4	4.5
92	M70	Y	-244.427	-242.738	4.5	5
93	M71	Y	-259.172	-235.581	0	0.5
94	M71	Y	-235.581	-230.877	0.5	1
95	M71	Y	-230.877	-242.708	1	1.5
96	M71	Y	-242.708	-243.541	1.5	2
97	M71	Y	-243.541	-243.495	2	2.5
98	M71	Y	-243.495	-252.925	2.5	3
99	M71	Y	-252.925	-250.517	3	3.5
100	M71	Y	-250.517	-234.059	3.5	4
101	M71	Y	-234.059	-234.881	4	4.5
102	M71	Y	-234.881	-253.486	4.5	5
103	M72	Y	-252.705	-234.785	0	0.5
104	M72	Y	-234.785	-233.812	0.5	1
105	M72	Y	-233.812	-249.446	1	1.5
106	M72	Y	-249.446	-250.408	1.5	2
107	M72	Y	-250.408	-237.629	2	2.5
108	M72	Y	-237.629	-235.142	2.5	3
109	M72	Y	-235.142	-233.904	3	3.5
110	M72	Y	-233.904	-237.24	3.5	4
111	M72	Y	-237.24	-244.509	4	4.5
112	M72	Y	-244.509	-242.681	4.5	5
113	M79	Y	-251.851	-245.421	0	0.5
114	M79	Y	-245.421	-237.941	0.5	1
115	M79	Y	-237.941	-239.757	1	1.5
116	M79	Y	-239.757	-242.807	1.5	2
117	M79	Y	-242.807	-246.157	2	2.5
118	M79	Y	-246.157	-258.252	2.5	3
119	M79	Y	-258.252	-255.789	3	3.5
120	M79	Y	-255.789	-238.557	3.5	4
121	M79	Y	-238.557	-240.157	4	4.5
122	M79	Y	-240.157	-261.466	4.5	5
123	M80	Y	-259.079	-259.079	0.002	4.998
124	M84	Y	-252.958	-245.255	0	0.5
125	M84	Y	-245.255	-237.469	0.5	1
126	M84	Y	-237.469	-239.833	1	1.5
127	M84	Y	-239.833	-243.201	1.5	2
128	M84	Y	-243.201	-246.252	2	2.5
129	M84	Y	-246.252	-258.097	2.5	3
130	M84	Y	-258.097	-255.998	3	3.5
131	M84	Y	-255.998	-239.112	3.5	4
132	M84	Y	-239.112	-240.013	4	4.5
133	M84	Y	-240.013	-259.66	4.5	5
134	M85	Y	-258.801	-258.791	0	0.5
135	M85	Y	-258.791	-258.869	0.5	1
136	M85	Y	-258.869	-259.062	1	1.5
137	M85	Y	-259.062	-259.19	1.5	2
138	M85	Y	-259.19	-259.062	2	2.5
139	M85	Y	-259.062	-258.798	2.5	3
140	M85	Y	-258.798	-258.635	3	3.5
141	M85	Y	-258.635	-258.596	3.5	4
142	M85	Y	-258.596	-258.663	4	4.5

Member Distributed Loads (BLC 9 : BLC 2 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
143	M85	Y	-258.663	-258.789	4.5	5
144	M93	Y	-254.681	-254.681	0.001	4.998
145	M96	Y	-254.681	-254.681	0.001	4.998
146	M98	Y	-252.968	-234.318	0	0.5
147	M98	Y	-234.318	-233.397	0.5	1
148	M98	Y	-233.397	-249.376	1	1.5
149	M98	Y	-249.376	-250.487	1.5	2
150	M98	Y	-250.487	-237.32	2	2.5
151	M98	Y	-237.32	-234.647	2.5	3
152	M98	Y	-234.647	-233.683	3	3.5
153	M98	Y	-233.683	-234.102	3.5	4
154	M98	Y	-234.102	-244.107	4	4.5
155	M98	Y	-244.107	-253.29	4.5	5
156	M99	Y	-254.347	-234.469	0	0.5
157	M99	Y	-234.469	-233.413	0.5	1
158	M99	Y	-233.413	-249.672	1	1.5
159	M99	Y	-249.672	-250.541	1.5	2
160	M99	Y	-250.541	-237.615	2	2.5
161	M99	Y	-237.615	-235.024	2.5	3
162	M99	Y	-235.024	-233.828	3	3.5
163	M99	Y	-233.828	-237.037	3.5	4
164	M99	Y	-237.037	-244.426	4	4.5
165	M99	Y	-244.426	-242.738	4.5	5
166	M21	Y	-79.197	-45.878	0	0.4
167	M21	Y	-45.878	-41.01	0.4	0.8
168	M21	Y	-41.01	-48.648	0.8	1.2
169	M21	Y	-48.648	-47.116	1.2	1.6
170	M21	Y	-47.116	-52.359	1.6	2
171	M40	Y	0.586	-26.919	0	0.05
172	M40	Y	-26.919	-56.768	0.05	0.1
173	M45	Y	-1862.13	-1862.13	0	0.125
174	M57	Y	-1104.725	-1104.725	1.177	1.302
175	M59	Y	-41.476	-41.999	0	0.5
176	M59	Y	-41.999	-42.425	0.5	1
177	M59	Y	-42.425	-40.644	1	1.5
178	M59	Y	-40.644	-47.621	1.5	2
179	M59	Y	-47.621	-45.612	2	2.5
180	M59	Y	-45.612	-38.422	2.5	3
181	M59	Y	-38.422	-42.091	3	3.5
182	M59	Y	-42.091	-41.946	3.5	4
183	M60	Y	-150	-150	3.747e-15	4
184	M62	Y	-249.57	-249.57	0	4
185	M65	Y	-216.738	-216.738	1.119e-14	0.25
186	M65	Y	-216.738	-216.738	0.25	0.5
187	M65	Y	-216.738	-216.738	0.5	0.75
188	M65	Y	-216.738	-225.107	0.75	1
189	M65	Y	-225.107	-225.107	1	1.25
190	M65	Y	-225.107	-208.369	1.25	1.5
191	M65	Y	-208.369	-200	1.5	1.75
192	M65	Y	-200	-208.369	1.75	2
193	M65	Y	-208.369	-216.738	2	2.25
194	M65	Y	-216.738	-216.738	2.25	2.5
195	M65	Y	-216.738	-216.738	2.5	2.75
196	M65	Y	-216.738	-216.738	2.75	3
197	M65	Y	-216.738	-216.738	3	3.25

Member Distributed Loads (BLC 9 : BLC 2 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
198	M65	Y	-216.738	-216.738	3.25	3.5
199	M65	Y	-216.738	-216.738	3.5	3.75
200	M65	Y	-216.738	-216.738	3.75	4
201	M77	Y	-54.698	-49.543	0	0.38
202	M77	Y	-49.543	-48.456	0.38	0.76
203	M77	Y	-48.456	-39.619	0.76	1.14
204	M77	Y	-39.619	-46.475	1.14	1.52
205	M77	Y	-46.475	-80.843	1.52	1.9
206	M6	Y	-252.853	-245.196	0	0.5
207	M6	Y	-245.196	-237.509	0.5	1
208	M6	Y	-237.509	-239.882	1	1.5

Member Distributed Loads (BLC 10 : BLC 5 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M69	X	20.339	18.766	0	0.5
2	M69	X	18.766	18.67	0.5	1
3	M69	X	18.67	19.967	1	1.5
4	M69	X	19.967	20.046	1.5	2
5	M69	X	20.046	19.001	2	2.5
6	M69	X	19.001	18.795	2.5	3
7	M69	X	18.795	18.715	3	3.5
8	M69	X	18.715	18.972	3.5	4
9	M69	X	18.972	19.554	4	4.5
10	M69	X	19.554	19.419	4.5	5
11	M70	X	20.347	18.759	0	0.5
12	M70	X	18.759	18.672	0.5	1
13	M70	X	18.672	19.974	1	1.5
14	M70	X	19.974	20.044	1.5	2
15	M70	X	20.044	19.008	2	2.5
16	M70	X	19.008	18.802	2.5	3
17	M70	X	18.802	18.706	3	3.5
18	M70	X	18.706	18.963	3.5	4
19	M70	X	18.963	19.554	4	4.5
20	M70	X	19.554	19.419	4.5	5
21	M71	X	20.734	18.846	0	0.5
22	M71	X	18.846	18.47	0.5	1
23	M71	X	18.47	19.417	1	1.5
24	M71	X	19.417	19.483	1.5	2
25	M71	X	19.483	19.48	2	2.5
26	M71	X	19.48	20.234	2.5	3
27	M71	X	20.234	20.041	3	3.5
28	M71	X	20.041	18.725	3.5	4
29	M71	X	18.725	18.791	4	4.5
30	M71	X	18.791	20.279	4.5	5
31	M72	X	20.216	18.783	0	0.5
32	M72	X	18.783	18.705	0.5	1
33	M72	X	18.705	19.956	1	1.5
34	M72	X	19.956	20.033	1.5	2
35	M72	X	20.033	19.01	2	2.5
36	M72	X	19.01	18.811	2.5	3
37	M72	X	18.811	18.712	3	3.5
38	M72	X	18.712	18.979	3.5	4
39	M72	X	18.979	19.561	4	4.5
40	M72	X	19.561	19.415	4.5	5
41	M79	X	20.148	19.634	0	0.5

Member Distributed Loads (BLC 10 : BLC 5 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
42	M79	X	19.634	19.035	0.5	1
43	M79	X	19.035	19.181	1	1.5
44	M79	X	19.181	19.425	1.5	2
45	M79	X	19.425	19.693	2	2.5
46	M79	X	19.693	20.66	2.5	3
47	M79	X	20.66	20.463	3	3.5
48	M79	X	20.463	19.085	3.5	4
49	M79	X	19.085	19.213	4	4.5
50	M79	X	19.213	20.917	4.5	5
51	M80	X	20.726	20.726	0.002	4.998
52	M84	X	20.237	19.62	0	0.5
53	M84	X	19.62	18.998	0.5	1
54	M84	X	18.998	19.187	1	1.5
55	M84	X	19.187	19.456	1.5	2
56	M84	X	19.456	19.7	2	2.5
57	M84	X	19.7	20.648	2.5	3
58	M84	X	20.648	20.48	3	3.5
59	M84	X	20.48	19.129	3.5	4
60	M84	X	19.129	19.201	4	4.5
61	M84	X	19.201	20.773	4.5	5
62	M85	X	20.704	20.703	0	0.5
63	M85	X	20.703	20.709	0.5	1
64	M85	X	20.709	20.725	1	1.5
65	M85	X	20.725	20.735	1.5	2
66	M85	X	20.735	20.725	2	2.5
67	M85	X	20.725	20.704	2.5	3
68	M85	X	20.704	20.691	3	3.5
69	M85	X	20.691	20.688	3.5	4
70	M85	X	20.688	20.693	4	4.5
71	M85	X	20.693	20.703	4.5	5
72	M93	X	20.374	20.374	0.001	4.998
73	M96	X	20.374	20.374	0.001	4.998
74	M98	X	20.237	18.745	0	0.5
75	M98	X	18.745	18.672	0.5	1
76	M98	X	18.672	19.95	1	1.5
77	M98	X	19.95	20.039	1.5	2
78	M98	X	20.039	18.986	2	2.5
79	M98	X	18.986	18.772	2.5	3
80	M98	X	18.772	18.695	3	3.5
81	M98	X	18.695	18.728	3.5	4
82	M98	X	18.728	19.529	4	4.5
83	M98	X	19.529	20.263	4.5	5
84	M99	X	20.348	18.757	0	0.5
85	M99	X	18.757	18.673	0.5	1
86	M99	X	18.673	19.974	1	1.5
87	M99	X	19.974	20.043	1.5	2
88	M99	X	20.043	19.009	2	2.5
89	M99	X	19.009	18.802	2.5	3
90	M99	X	18.802	18.706	3	3.5
91	M99	X	18.706	18.963	3.5	4
92	M99	X	18.963	19.554	4	4.5
93	M99	X	19.554	19.419	4.5	5
94	M21	X	5.227	3.028	0	0.4
95	M21	X	3.028	2.707	0.4	0.8
96	M21	X	2.707	3.211	0.8	1.2

Member Distributed Loads (BLC 10 : BLC 5 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
97	M21	X	3.211	3.11	1.2	1.6
98	M21	X	3.11	3.456	1.6	2
99	M40	X	-0.039	1.777	0	0.05
100	M40	X	1.777	3.747	0.05	0.1
101	M45	X	122.901	122.901	0	0.125
102	M57	X	72.912	72.912	1.177	1.302
103	M59	X	2.737	2.772	0	0.5
104	M59	X	2.772	2.8	0.5	1
105	M59	X	2.8	2.682	1	1.5
106	M59	X	2.682	3.143	1.5	2
107	M59	X	3.143	3.01	2	2.5
108	M59	X	3.01	2.536	2.5	3
109	M59	X	2.536	2.778	3	3.5
110	M59	X	2.778	2.768	3.5	4
111	M60	X	9.9	9.9	3.747e-15	4
112	M62	X	16.472	16.472	0	4
113	M65	X	14.305	14.305	1.119e-14	0.25
114	M65	X	14.305	14.305	0.25	0.5
115	M65	X	14.305	14.305	0.5	0.75
116	M65	X	14.305	14.857	0.75	1
117	M65	X	14.857	14.857	1	1.25
118	M65	X	14.857	13.752	1.25	1.5
119	M65	X	13.752	13.2	1.5	1.75
120	M65	X	13.2	13.752	1.75	2
121	M65	X	13.752	14.305	2	2.25
122	M65	X	14.305	14.305	2.25	2.5
123	M65	X	14.305	14.305	2.5	2.75
124	M65	X	14.305	14.305	2.75	3
125	M65	X	14.305	14.305	3	3.25
126	M65	X	14.305	14.305	3.25	3.5
127	M65	X	14.305	14.305	3.5	3.75
128	M65	X	14.305	14.305	3.75	4
129	M77	X	3.61	3.27	0	0.38
130	M77	X	3.27	3.198	0.38	0.76
131	M77	X	3.198	2.615	0.76	1.14
132	M77	X	2.615	3.067	1.14	1.52
133	M77	X	3.067	5.336	1.52	1.9
134	M6	X	20.228	19.616	0	0.5
135	M6	X	19.616	19.001	0.5	1
136	M6	X	19.001	19.191	1	1.5
137	M6	X	19.191	19.472	1.5	2
138	M6	X	19.472	19.701	2	2.5
139	M6	X	19.701	20.635	2.5	3
140	M6	X	20.635	20.48	3	3.5
141	M6	X	20.48	19.127	3.5	4
142	M6	X	19.127	19.201	4	4.5
143	M6	X	19.201	20.773	4.5	5
144	M7	X	20.24	19.628	0	0.5
145	M7	X	19.628	19.016	0.5	1
146	M7	X	19.016	19.182	1	1.5
147	M7	X	19.182	19.417	1.5	2
148	M7	X	19.417	19.699	2	2.5
149	M7	X	19.699	20.662	2.5	3
150	M7	X	20.662	20.465	3	3.5
151	M7	X	20.465	19.133	3.5	4

Member Distributed Loads (BLC 10 : BLC 5 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
152	M7	X	19.133	19.217	4	4.5
153	M7	X	19.217	20.762	4.5	5
154	M8	X	20.793	20.2	0	0.5
155	M8	X	20.2	19.543	0.5	1
156	M8	X	19.543	19.648	1	1.5
157	M8	X	19.648	19.782	1.5	2
158	M8	X	19.782	19.958	2	2.5
159	M8	X	19.958	20.903	2.5	3
160	M8	X	20.903	20.639	3	3.5
161	M8	X	20.639	19.195	3.5	4
162	M8	X	19.195	19.28	4	4.5
163	M8	X	19.28	20.938	4.5	5
164	M9	X	20.704	20.703	0	0.5
165	M9	X	20.703	20.709	0.5	1
166	M9	X	20.709	20.725	1	1.5
167	M9	X	20.725	20.735	1.5	2
168	M9	X	20.735	20.725	2	2.5
169	M9	X	20.725	20.704	2.5	3
170	M9	X	20.704	20.691	3	3.5
171	M9	X	20.691	20.688	3.5	4
172	M9	X	20.688	20.693	4	4.5
173	M9	X	20.693	20.703	4.5	5
174	M10	X	20.726	20.726	0.002	4.998
175	M11	X	20.417	20.417	0.002	4.998
176	M18	X	20.148	19.633	0	0.5
177	M18	X	19.633	19.032	0.5	1
178	M18	X	19.032	19.192	1	1.5
179	M18	X	19.192	19.427	1.5	2
180	M18	X	19.427	19.68	2	2.5
181	M18	X	19.68	20.657	2.5	3
182	M18	X	20.657	20.462	3	3.5
183	M18	X	20.462	19.084	3.5	4
184	M18	X	19.084	19.215	4	4.5
185	M18	X	19.215	20.934	4.5	5
186	M19	X	20.704	20.703	0	0.5
187	M19	X	20.703	20.709	0.5	1
188	M19	X	20.709	20.725	1	1.5
189	M19	X	20.725	20.735	1.5	2
190	M19	X	20.735	20.725	2	2.5
191	M19	X	20.725	20.704	2.5	3
192	M19	X	20.704	20.691	3	3.5
193	M19	X	20.691	20.688	3.5	4
194	M19	X	20.688	20.693	4	4.5
195	M19	X	20.693	20.703	4.5	5
196	M32	X	20.374	20.374	0.001	4.999
197	M33	X	20.374	20.374	0.001	4.998
198	M34	X	19.983	20.033	0	0.5
199	M34	X	20.033	20.078	0.5	1
200	M34	X	20.078	20.123	1	1.5
201	M34	X	20.123	20.174	1.5	2
202	M34	X	20.174	20.226	2	2.5
203	M34	X	20.226	20.266	2.5	3
204	M34	X	20.266	20.288	3	3.5
205	M34	X	20.288	20.307	3.5	4
206	M34	X	20.307	20.336	4	4.5

Member Distributed Loads (BLC 10 : BLC 5 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
207	M34	X	20.336	20.371	4.5	5
208	M39	X	20.374	20.374	0.001	4.999

Member Distributed Loads (BLC 11 : BLC 6 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M6	Z	20.228	19.616	0	0.5
2	M6	Z	19.616	19.001	0.5	1
3	M6	Z	19.001	19.191	1	1.5
4	M6	Z	19.191	19.472	1.5	2
5	M6	Z	19.472	19.701	2	2.5
6	M6	Z	19.701	20.635	2.5	3
7	M6	Z	20.635	20.48	3	3.5
8	M6	Z	20.48	19.127	3.5	4
9	M6	Z	19.127	19.201	4	4.5
10	M6	Z	19.201	20.773	4.5	5
11	M7	Z	20.24	19.628	0	0.5
12	M7	Z	19.628	19.016	0.5	1
13	M7	Z	19.016	19.182	1	1.5
14	M7	Z	19.182	19.417	1.5	2
15	M7	Z	19.417	19.699	2	2.5
16	M7	Z	19.699	20.662	2.5	3
17	M7	Z	20.662	20.465	3	3.5
18	M7	Z	20.465	19.133	3.5	4
19	M7	Z	19.133	19.217	4	4.5
20	M7	Z	19.217	20.762	4.5	5
21	M8	Z	20.793	20.2	0	0.5
22	M8	Z	20.2	19.543	0.5	1
23	M8	Z	19.543	19.648	1	1.5
24	M8	Z	19.648	19.782	1.5	2
25	M8	Z	19.782	19.958	2	2.5
26	M8	Z	19.958	20.903	2.5	3
27	M8	Z	20.903	20.639	3	3.5
28	M8	Z	20.639	19.195	3.5	4
29	M8	Z	19.195	19.28	4	4.5
30	M8	Z	19.28	20.938	4.5	5
31	M9	Z	20.704	20.703	0	0.5
32	M9	Z	20.703	20.709	0.5	1
33	M9	Z	20.709	20.725	1	1.5
34	M9	Z	20.725	20.735	1.5	2
35	M9	Z	20.735	20.725	2	2.5
36	M9	Z	20.725	20.704	2.5	3
37	M9	Z	20.704	20.691	3	3.5
38	M9	Z	20.691	20.688	3.5	4
39	M9	Z	20.688	20.693	4	4.5
40	M9	Z	20.693	20.703	4.5	5
41	M10	Z	20.726	20.726	0.002	4.998
42	M11	Z	20.417	20.417	0.002	4.998
43	M18	Z	20.148	19.633	0	0.5
44	M18	Z	19.633	19.032	0.5	1
45	M18	Z	19.032	19.192	1	1.5
46	M18	Z	19.192	19.427	1.5	2
47	M18	Z	19.427	19.68	2	2.5
48	M18	Z	19.68	20.657	2.5	3
49	M18	Z	20.657	20.462	3	3.5
50	M18	Z	20.462	19.084	3.5	4

Member Distributed Loads (BLC 11 : BLC 6 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
51	M18	Z	19.084	19.215	4	4.5
52	M18	Z	19.215	20.934	4.5	5
53	M19	Z	20.704	20.703	0	0.5
54	M19	Z	20.703	20.709	0.5	1
55	M19	Z	20.709	20.725	1	1.5
56	M19	Z	20.725	20.735	1.5	2
57	M19	Z	20.735	20.725	2	2.5
58	M19	Z	20.725	20.704	2.5	3
59	M19	Z	20.704	20.691	3	3.5
60	M19	Z	20.691	20.688	3.5	4
61	M19	Z	20.688	20.693	4	4.5
62	M19	Z	20.693	20.703	4.5	5
63	M32	Z	20.374	20.374	0.001	4.999
64	M33	Z	20.374	20.374	0.001	4.998
65	M34	Z	19.983	20.033	0	0.5
66	M34	Z	20.033	20.078	0.5	1
67	M34	Z	20.078	20.123	1	1.5
68	M34	Z	20.123	20.174	1.5	2
69	M34	Z	20.174	20.226	2	2.5
70	M34	Z	20.226	20.266	2.5	3
71	M34	Z	20.266	20.288	3	3.5
72	M34	Z	20.288	20.307	3.5	4
73	M34	Z	20.307	20.336	4	4.5
74	M34	Z	20.336	20.371	4.5	5
75	M39	Z	20.374	20.374	0.001	4.999
76	M69	Z	20.339	18.766	0	0.5
77	M69	Z	18.766	18.67	0.5	1
78	M69	Z	18.67	19.967	1	1.5
79	M69	Z	19.967	20.046	1.5	2
80	M69	Z	20.046	19.001	2	2.5
81	M69	Z	19.001	18.795	2.5	3
82	M69	Z	18.795	18.715	3	3.5
83	M69	Z	18.715	18.972	3.5	4
84	M69	Z	18.972	19.554	4	4.5
85	M69	Z	19.554	19.419	4.5	5
86	M70	Z	20.347	18.759	0	0.5
87	M70	Z	18.759	18.672	0.5	1
88	M70	Z	18.672	19.974	1	1.5
89	M70	Z	19.974	20.044	1.5	2
90	M70	Z	20.044	19.008	2	2.5
91	M70	Z	19.008	18.802	2.5	3
92	M70	Z	18.802	18.706	3	3.5
93	M70	Z	18.706	18.963	3.5	4
94	M70	Z	18.963	19.554	4	4.5
95	M70	Z	19.554	19.419	4.5	5
96	M71	Z	20.734	18.846	0	0.5
97	M71	Z	18.846	18.47	0.5	1
98	M71	Z	18.47	19.417	1	1.5
99	M71	Z	19.417	19.483	1.5	2
100	M71	Z	19.483	19.48	2	2.5
101	M71	Z	19.48	20.234	2.5	3
102	M71	Z	20.234	20.041	3	3.5
103	M71	Z	20.041	18.725	3.5	4
104	M71	Z	18.725	18.791	4	4.5
105	M71	Z	18.791	20.279	4.5	5

Member Distributed Loads (BLC 11 : BLC 6 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
106	M72	Z	20.216	18.783	0	0.5
107	M72	Z	18.783	18.705	0.5	1
108	M72	Z	18.705	19.956	1	1.5
109	M72	Z	19.956	20.033	1.5	2
110	M72	Z	20.033	19.01	2	2.5
111	M72	Z	19.01	18.811	2.5	3
112	M72	Z	18.811	18.712	3	3.5
113	M72	Z	18.712	18.979	3.5	4
114	M72	Z	18.979	19.561	4	4.5
115	M72	Z	19.561	19.415	4.5	5
116	M79	Z	20.148	19.634	0	0.5
117	M79	Z	19.634	19.035	0.5	1
118	M79	Z	19.035	19.181	1	1.5
119	M79	Z	19.181	19.425	1.5	2
120	M79	Z	19.425	19.693	2	2.5
121	M79	Z	19.693	20.66	2.5	3
122	M79	Z	20.66	20.463	3	3.5
123	M79	Z	20.463	19.085	3.5	4
124	M79	Z	19.085	19.213	4	4.5
125	M79	Z	19.213	20.917	4.5	5
126	M80	Z	20.726	20.726	0.002	4.998
127	M84	Z	20.237	19.62	0	0.5
128	M84	Z	19.62	18.998	0.5	1
129	M84	Z	18.998	19.187	1	1.5
130	M84	Z	19.187	19.456	1.5	2
131	M84	Z	19.456	19.7	2	2.5
132	M84	Z	19.7	20.648	2.5	3
133	M84	Z	20.648	20.48	3	3.5
134	M84	Z	20.48	19.129	3.5	4
135	M84	Z	19.129	19.201	4	4.5
136	M84	Z	19.201	20.773	4.5	5
137	M85	Z	20.704	20.703	0	0.5
138	M85	Z	20.703	20.709	0.5	1
139	M85	Z	20.709	20.725	1	1.5
140	M85	Z	20.725	20.735	1.5	2
141	M85	Z	20.735	20.725	2	2.5
142	M85	Z	20.725	20.704	2.5	3
143	M85	Z	20.704	20.691	3	3.5
144	M85	Z	20.691	20.688	3.5	4
145	M85	Z	20.688	20.693	4	4.5
146	M85	Z	20.693	20.703	4.5	5
147	M93	Z	20.374	20.374	0.001	4.998
148	M96	Z	20.374	20.374	0.001	4.998
149	M98	Z	20.237	18.745	0	0.5
150	M98	Z	18.745	18.672	0.5	1
151	M98	Z	18.672	19.95	1	1.5
152	M98	Z	19.95	20.039	1.5	2
153	M98	Z	20.039	18.986	2	2.5
154	M98	Z	18.986	18.772	2.5	3
155	M98	Z	18.772	18.695	3	3.5
156	M98	Z	18.695	18.728	3.5	4
157	M98	Z	18.728	19.529	4	4.5
158	M98	Z	19.529	20.263	4.5	5
159	M99	Z	20.348	18.757	0	0.5
160	M99	Z	18.757	18.673	0.5	1

Member Distributed Loads (BLC 11 : BLC 6 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
161	M99	Z	18.673	19.974	1	1.5
162	M99	Z	19.974	20.043	1.5	2
163	M99	Z	20.043	19.009	2	2.5
164	M99	Z	19.009	18.802	2.5	3
165	M99	Z	18.802	18.706	3	3.5
166	M99	Z	18.706	18.963	3.5	4
167	M99	Z	18.963	19.554	4	4.5
168	M99	Z	19.554	19.419	4.5	5
169	M21	Z	8.214	4.758	0	0.4
170	M21	Z	4.758	4.253	0.4	0.8
171	M21	Z	4.253	5.045	0.8	1.2
172	M21	Z	5.045	4.886	1.2	1.6
173	M21	Z	4.886	5.43	1.6	2
174	M40	Z	-0.061	2.792	0	0.05
175	M40	Z	2.792	5.888	0.05	0.1
176	M45	Z	193.124	193.124	0	0.125
177	M57	Z	114.572	114.572	1.177	1.302
178	M59	Z	4.302	4.356	0	0.5
179	M59	Z	4.356	4.4	0.5	1
180	M59	Z	4.4	4.215	1	1.5
181	M59	Z	4.215	4.939	1.5	2
182	M59	Z	4.939	4.731	2	2.5
183	M59	Z	4.731	3.985	2.5	3
184	M59	Z	3.985	4.365	3	3.5
185	M59	Z	4.365	4.35	3.5	4
186	M60	Z	15.557	15.557	3.747e-15	4
187	M62	Z	25.883	25.883	0	4
188	M65	Z	22.478	22.478	1.119e-14	0.25
189	M65	Z	22.478	22.478	0.25	0.5
190	M65	Z	22.478	22.478	0.5	0.75
191	M65	Z	22.478	23.346	0.75	1
192	M65	Z	23.346	23.346	1	1.25
193	M65	Z	23.346	21.61	1.25	1.5
194	M65	Z	21.61	20.742	1.5	1.75
195	M65	Z	20.742	21.61	1.75	2
196	M65	Z	21.61	22.478	2	2.25
197	M65	Z	22.478	22.478	2.25	2.5
198	M65	Z	22.478	22.478	2.5	2.75
199	M65	Z	22.478	22.478	2.75	3
200	M65	Z	22.478	22.478	3	3.25
201	M65	Z	22.478	22.478	3.25	3.5
202	M65	Z	22.478	22.478	3.5	3.75
203	M65	Z	22.478	22.478	3.75	4
204	M77	Z	5.673	5.138	0	0.38
205	M77	Z	5.138	5.025	0.38	0.76
206	M77	Z	5.025	4.109	0.76	1.14
207	M77	Z	4.109	4.82	1.14	1.52
208	M77	Z	4.82	8.384	1.52	1.9

Member Distributed Loads (BLC 12 : BLC 7 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M6	Y	-63.213	-61.299	0	0.5
2	M6	Y	-61.299	-59.377	0.5	1
3	M6	Y	-59.377	-59.971	1	1.5
4	M6	Y	-59.971	-60.849	1.5	2

Member Distributed Loads (BLC 12 : BLC 7 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
5	M6	Y	-60.849	-61.566	2	2.5
6	M6	Y	-61.566	-64.483	2.5	3
7	M6	Y	-64.483	-64	3	3.5
8	M6	Y	-64	-59.772	3.5	4
9	M6	Y	-59.772	-60.004	4	4.5
10	M6	Y	-60.004	-64.915	4.5	5
11	M7	Y	-63.25	-61.337	0	0.5
12	M7	Y	-61.337	-59.426	0.5	1
13	M7	Y	-59.426	-59.943	1	1.5
14	M7	Y	-59.943	-60.677	1.5	2
15	M7	Y	-60.677	-61.56	2	2.5
16	M7	Y	-61.56	-64.57	2.5	3
17	M7	Y	-64.57	-63.952	3	3.5
18	M7	Y	-63.952	-59.791	3.5	4
19	M7	Y	-59.791	-60.052	4	4.5
20	M7	Y	-60.052	-64.882	4.5	5
21	M8	Y	-64.979	-63.125	0	0.5
22	M8	Y	-63.125	-61.072	0.5	1
23	M8	Y	-61.072	-61.399	1	1.5
24	M8	Y	-61.399	-61.817	1.5	2
25	M8	Y	-61.817	-62.37	2	2.5
26	M8	Y	-62.37	-65.323	2.5	3
27	M8	Y	-65.323	-64.497	3	3.5
28	M8	Y	-64.497	-59.983	3.5	4
29	M8	Y	-59.983	-60.251	4	4.5
30	M8	Y	-60.251	-65.431	4.5	5
31	M9	Y	-64.7	-64.698	0	0.5
32	M9	Y	-64.698	-64.717	0.5	1
33	M9	Y	-64.717	-64.766	1	1.5
34	M9	Y	-64.766	-64.798	1.5	2
35	M9	Y	-64.798	-64.766	2	2.5
36	M9	Y	-64.766	-64.699	2.5	3
37	M9	Y	-64.699	-64.659	3	3.5
38	M9	Y	-64.659	-64.649	3.5	4
39	M9	Y	-64.649	-64.666	4	4.5
40	M9	Y	-64.666	-64.697	4.5	5
41	M10	Y	-64.77	-64.77	0.002	4.998
42	M11	Y	-63.803	-63.803	0.002	4.998
43	M18	Y	-62.963	-61.354	0	0.5
44	M18	Y	-61.354	-59.474	0.5	1
45	M18	Y	-59.474	-59.975	1	1.5
46	M18	Y	-59.975	-60.708	1.5	2
47	M18	Y	-60.708	-61.499	2	2.5
48	M18	Y	-61.499	-64.555	2.5	3
49	M18	Y	-64.555	-63.944	3	3.5
50	M18	Y	-63.944	-59.637	3.5	4
51	M18	Y	-59.637	-60.048	4	4.5
52	M18	Y	-60.048	-65.418	4.5	5
53	M19	Y	-64.7	-64.698	0	0.5
54	M19	Y	-64.698	-64.717	0.5	1
55	M19	Y	-64.717	-64.766	1	1.5
56	M19	Y	-64.766	-64.798	1.5	2
57	M19	Y	-64.798	-64.766	2	2.5
58	M19	Y	-64.766	-64.699	2.5	3
59	M19	Y	-64.699	-64.659	3	3.5

Member Distributed Loads (BLC 12 : BLC 7 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
60	M19	Y	-64.659	-64.649	3.5	4
61	M19	Y	-64.649	-64.666	4	4.5
62	M19	Y	-64.666	-64.697	4.5	5
63	M32	Y	-63.668	-63.668	0.001	4.999
64	M33	Y	-63.67	-63.67	0.001	4.998
65	M34	Y	-62.448	-62.602	0	0.5
66	M34	Y	-62.602	-62.745	0.5	1
67	M34	Y	-62.745	-62.884	1	1.5
68	M34	Y	-62.884	-63.043	1.5	2
69	M34	Y	-63.043	-63.207	2	2.5
70	M34	Y	-63.207	-63.331	2.5	3
71	M34	Y	-63.331	-63.399	3	3.5
72	M34	Y	-63.399	-63.458	3.5	4
73	M34	Y	-63.458	-63.55	4	4.5
74	M34	Y	-63.55	-63.659	4.5	5
75	M39	Y	-63.668	-63.668	0.001	4.999
76	M69	Y	-63.561	-58.643	0	0.5
77	M69	Y	-58.643	-58.343	0.5	1
78	M69	Y	-58.343	-62.398	1	1.5
79	M69	Y	-62.398	-62.645	1.5	2
80	M69	Y	-62.645	-59.379	2	2.5
81	M69	Y	-59.379	-58.734	2.5	3
82	M69	Y	-58.734	-58.484	3	3.5
83	M69	Y	-58.484	-59.288	3.5	4
84	M69	Y	-59.288	-61.105	4	4.5
85	M69	Y	-61.105	-60.685	4.5	5
86	M70	Y	-63.583	-58.621	0	0.5
87	M70	Y	-58.621	-58.35	0.5	1
88	M70	Y	-58.35	-62.418	1	1.5
89	M70	Y	-62.418	-62.639	1.5	2
90	M70	Y	-62.639	-59.4	2	2.5
91	M70	Y	-59.4	-58.756	2.5	3
92	M70	Y	-58.756	-58.457	3	3.5
93	M70	Y	-58.457	-59.259	3.5	4
94	M70	Y	-59.259	-61.107	4	4.5
95	M70	Y	-61.107	-60.685	4.5	5
96	M71	Y	-64.793	-58.895	0	0.5
97	M71	Y	-58.895	-57.719	0.5	1
98	M71	Y	-57.719	-60.677	1	1.5
99	M71	Y	-60.677	-60.885	1.5	2
100	M71	Y	-60.885	-60.874	2	2.5
101	M71	Y	-60.874	-63.231	2.5	3
102	M71	Y	-63.231	-62.629	3	3.5
103	M71	Y	-62.629	-58.515	3.5	4
104	M71	Y	-58.515	-58.72	4	4.5
105	M71	Y	-58.72	-63.371	4.5	5
106	M72	Y	-63.176	-58.696	0	0.5
107	M72	Y	-58.696	-58.453	0.5	1
108	M72	Y	-58.453	-62.362	1	1.5
109	M72	Y	-62.362	-62.602	1.5	2
110	M72	Y	-62.602	-59.407	2	2.5
111	M72	Y	-59.407	-58.786	2.5	3
112	M72	Y	-58.786	-58.476	3	3.5
113	M72	Y	-58.476	-59.31	3.5	4
114	M72	Y	-59.31	-61.127	4	4.5

Member Distributed Loads (BLC 12 : BLC 7 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
115	M72	Y	-61.127	-60.67	4.5	5
116	M79	Y	-62.963	-61.355	0	0.5
117	M79	Y	-61.355	-59.485	0.5	1
118	M79	Y	-59.485	-59.939	1	1.5
119	M79	Y	-59.939	-60.702	1.5	2
120	M79	Y	-60.702	-61.539	2	2.5
121	M79	Y	-61.539	-64.563	2.5	3
122	M79	Y	-64.563	-63.947	3	3.5
123	M79	Y	-63.947	-59.639	3.5	4
124	M79	Y	-59.639	-60.039	4	4.5
125	M79	Y	-60.039	-65.367	4.5	5
126	M80	Y	-64.77	-64.77	0.002	4.998
127	M84	Y	-63.24	-61.314	0	0.5
128	M84	Y	-61.314	-59.367	0.5	1
129	M84	Y	-59.367	-59.958	1	1.5
130	M84	Y	-59.958	-60.8	1.5	2
131	M84	Y	-60.8	-61.563	2	2.5
132	M84	Y	-61.563	-64.524	2.5	3
133	M84	Y	-64.524	-63.999	3	3.5
134	M84	Y	-63.999	-59.778	3.5	4
135	M84	Y	-59.778	-60.003	4	4.5
136	M84	Y	-60.003	-64.915	4.5	5
137	M85	Y	-64.7	-64.698	0	0.5
138	M85	Y	-64.698	-64.717	0.5	1
139	M85	Y	-64.717	-64.766	1	1.5
140	M85	Y	-64.766	-64.798	1.5	2
141	M85	Y	-64.798	-64.766	2	2.5
142	M85	Y	-64.766	-64.699	2.5	3
143	M85	Y	-64.699	-64.659	3	3.5
144	M85	Y	-64.659	-64.649	3.5	4
145	M85	Y	-64.649	-64.666	4	4.5
146	M85	Y	-64.666	-64.697	4.5	5
147	M93	Y	-63.67	-63.67	0.001	4.998
148	M96	Y	-63.67	-63.67	0.001	4.998
149	M98	Y	-63.242	-58.579	0	0.5
150	M98	Y	-58.579	-58.349	0.5	1
151	M98	Y	-58.349	-62.344	1	1.5
152	M98	Y	-62.344	-62.622	1.5	2
153	M98	Y	-62.622	-59.33	2	2.5
154	M98	Y	-59.33	-58.662	2.5	3
155	M98	Y	-58.662	-58.421	3	3.5
156	M98	Y	-58.421	-58.526	3.5	4
157	M98	Y	-58.526	-61.027	4	4.5
158	M98	Y	-61.027	-63.322	4.5	5
159	M99	Y	-63.587	-58.617	0	0.5
160	M99	Y	-58.617	-58.353	0.5	1
161	M99	Y	-58.353	-62.418	1	1.5
162	M99	Y	-62.418	-62.635	1.5	2
163	M99	Y	-62.635	-59.404	2	2.5
164	M99	Y	-59.404	-58.756	2.5	3
165	M99	Y	-58.756	-58.457	3	3.5
166	M99	Y	-58.457	-59.259	3.5	4
167	M99	Y	-59.259	-61.106	4	4.5
168	M99	Y	-61.106	-60.684	4.5	5
169	M21	Y	-19.799	-11.47	0	0.4

Member Distributed Loads (BLC 12 : BLC 7 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
170	M21	Y	-11.47	-10.252	0.4	0.8
171	M21	Y	-10.252	-12.162	0.8	1.2
172	M21	Y	-12.162	-11.779	1.2	1.6
173	M21	Y	-11.779	-13.09	1.6	2
174	M40	Y	0.147	-6.73	0	0.05
175	M40	Y	-6.73	-14.192	0.05	0.1
176	M45	Y	-465.533	-465.533	0	0.125
177	M57	Y	-276.181	-276.181	1.177	1.302
178	M59	Y	-10.369	-10.5	0	0.5
179	M59	Y	-10.5	-10.606	0.5	1
180	M59	Y	-10.606	-10.161	1	1.5
181	M59	Y	-10.161	-11.905	1.5	2
182	M59	Y	-11.905	-11.403	2	2.5
183	M59	Y	-11.403	-9.606	2.5	3
184	M59	Y	-9.606	-10.523	3	3.5
185	M59	Y	-10.523	-10.487	3.5	4
186	M60	Y	-37.5	-37.5	3.747e-15	4
187	M62	Y	-62.393	-62.393	0	4
188	M65	Y	-54.185	-54.185	1.119e-14	0.25
189	M65	Y	-54.185	-54.185	0.25	0.5
190	M65	Y	-54.185	-54.185	0.5	0.75
191	M65	Y	-54.185	-56.277	0.75	1
192	M65	Y	-56.277	-56.277	1	1.25
193	M65	Y	-56.277	-52.092	1.25	1.5
194	M65	Y	-52.092	-50	1.5	1.75
195	M65	Y	-50	-52.092	1.75	2
196	M65	Y	-52.092	-54.185	2	2.25
197	M65	Y	-54.185	-54.185	2.25	2.5
198	M65	Y	-54.185	-54.185	2.5	2.75
199	M65	Y	-54.185	-54.185	2.75	3
200	M65	Y	-54.185	-54.185	3	3.25
201	M65	Y	-54.185	-54.185	3.25	3.5
202	M65	Y	-54.185	-54.185	3.5	3.75
203	M65	Y	-54.185	-54.185	3.75	4
204	M77	Y	-13.674	-12.386	0	0.38
205	M77	Y	-12.386	-12.114	0.38	0.76
206	M77	Y	-12.114	-9.905	0.76	1.14
207	M77	Y	-9.905	-11.619	1.14	1.52
208	M77	Y	-11.619	-20.211	1.52	1.9

Member Area Loads (BLC 1 : Dead)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N70	N65	N38	N35	Y	A-B	-10	-10	-10	-10	Yes
2	N6	N52	N46	N7	PY	A-B	-10	-10	-10	-10	Yes

Member Area Loads (BLC 2 : Live)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N70	N65	N38	N35	Y	A-B	-100	-100	-100	-100	Yes
2	N6	N52	N46	N7	PY	A-B	-100	-100	-100	-100	Yes

Member Area Loads (BLC 5 : Seismic X)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N70	N65	N38	N35	X	A-B	8	8	8	8	Yes
2	N6	N52	N46	N7	PX	A-B	8	8	8	8	Yes

Member Area Loads (BLC 6 : Seismic Z)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N70	N65	N38	N35	Z	A-B	8	8	8	8	Yes
2	N6	N52	N46	N7	Z	A-B	8	8	8	8	Yes

Member Area Loads (BLC 7 : Snow)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N70	N65	N38	N35	Y	A-B	-25	-25	-25	-25	Yes
2	N6	N52	N46	N7	PY	A-B	-25	-25	-25	-25	Yes

Basic Load Cases

	BLC Description	Category	Y Gravity	Distributed	Area(Member)
1	Dead	DL	-1	16	2
2	Live	LL			2
3	Wind X	WLX		22	
4	Wind Z	WLZ		28	
5	Seismic X	ELX			2
6	Seismic Z	ELZ			2
7	Snow	SL			2
8	BLC 1 Transient Area Loads	None		208	
9	BLC 2 Transient Area Loads	None		208	
10	BLC 5 Transient Area Loads	None		208	
11	BLC 6 Transient Area Loads	None		208	
12	BLC 7 Transient Area Loads	None		208	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	Deflection 1	Yes	C	DL	1										
2	Deflection 2	Yes	C	LL	1										
3	Deflection 3	Yes	C	DL	1	LL	1								
4	IBC 21/ASCE ASD 1	Yes	C	DL	1										
5	IBC 21/ASCE ASD 2	Yes	C	DL	1	LL	1	LLS	1						
6	IBC 21/ASCE ASD 3 (b)	Yes	C	DL	1	SL	1	SLN	1						
7	IBC 21/ASCE ASD 4 (b)	Yes	C	DL	1	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75		
8	IBC 21/ASCE ASD 5 (a) (a)	Yes	C	DL	1	WLX	0.6								
9	IBC 21/ASCE ASD 5 (a) (b)	Yes	C	DL	1	WLZ	0.6								
10	IBC 21/ASCE ASD 5 (a) (c)	Yes	C	DL	1	WLX	-0.6								
11	IBC 21/ASCE ASD 5 (a) (d)	Yes	C	DL	1	WLZ	-0.6								
12	IBC 21/ASCE ASD 6 (a) (a)	Yes	C	DL	1	WLX	0.45	LL	0.75	LLS	0.75				
13	IBC 21/ASCE ASD 6 (a) (b)	Yes	C	DL	1	WLZ	0.45	LL	0.75	LLS	0.75				
14	IBC 21/ASCE ASD 6 (a) (c)	Yes	C	DL	1	WLX	-0.45	LL	0.75	LLS	0.75				
15	IBC 21/ASCE ASD 6 (a) (d)	Yes	C	DL	1	WLZ	-0.45	LL	0.75	LLS	0.75				
16	IBC 21/ASCE ASD 6 (b) (a)	Yes	C	DL	1	WLX	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
17	IBC 21/ASCE ASD 6 (b) (b)	Yes	C	DL	1	WLZ	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
18	IBC 21/ASCE ASD 6 (b) (c)	Yes	C	DL	1	WLX	-0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
19	IBC 21/ASCE ASD 6 (b) (d)	Yes	C	DL	1	WLZ	-0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
20	IBC 21/ASCE ASD 7 (a)	Yes	C	DL	0.6	WLX	0.6								
21	IBC 21/ASCE ASD 7 (b)	Yes	C	DL	0.6	WLZ	0.6								
22	IBC 21/ASCE ASD 7 (c)	Yes	C	DL	0.6	WLX	-0.6								
23	IBC 21/ASCE ASD 7 (d)	Yes	C	DL	0.6	WLZ	-0.6								
24	IBC 21/ASCE ASD 8 (a)	Yes	C	DL	1	ELX	0.7								
25	IBC 21/ASCE ASD 8 (b)	Yes	C	DL	1	ELZ	0.7								
26	IBC 21/ASCE ASD 8 (c)	Yes	C	DL	1	ELX	-0.7								
27	IBC 21/ASCE ASD 8 (d)	Yes	C	DL	1	ELZ	-0.7								
28	IBC 21/ASCE ASD 9 (a)	Yes	C	DL	1	ELX	0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
29	IBC 21/ASCE ASD 9 (b)	Yes	C	DL	1	ELZ	0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
30	IBC 21/ASCE ASD 9 (c)	Yes	C	DL	1	ELX	-0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
31	IBC 21/ASCE ASD 9 (d)	Yes	C	DL	1	ELZ	-0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
32	IBC 21/ASCE ASD 10 (a)	Yes	C	DL	0.6	ELX	0.7								
33	IBC 21/ASCE ASD 10 (b)	Yes	C	DL	0.6	ELZ	0.7								
34	IBC 21/ASCE ASD 10 (c)	Yes	C	DL	0.6	ELX	-0.7								
35	IBC 21/ASCE ASD 10 (d)	Yes	C	DL	0.6	ELZ	-0.7								

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N17	max	0.418	32	1758.227	31	692.758	31	0	35	0	35	0	35
2		min	-1.503	30	-696.057	33	-275.909	33	0	1	0	1	0	1
3	N16	max	1.627	34	1571.981	5	0.967	29	0	35	0	35	0	35
4		min	-1.62	32	166.303	34	-0.254	33	0	1	0	1	0	1
5	N15	max	398.836	34	2493.012	28	1.652	30	0	35	0	35	0	35
6		min	-749.587	28	-981.652	34	-0.395	32	0	1	0	1	0	1
7	N14	max	683.96	30	2309.187	30	0.972	28	0	35	0	35	0	35
8		min	-405.817	32	-994.539	32	-0.628	33	0	1	0	1	0	1
9	N13	max	0.583	34	2724.337	5	0.575	35	0	35	0	35	0	35
10		min	-0.921	30	179.687	35	-0.573	33	0	1	0	1	0	1
11	N11	max	0.642	25	2285.514	29	278.911	35	0	35	0	35	0	35
12		min	-0.836	31	-650.179	35	-488.368	29	0	1	0	1	0	1
13	N10	max	1.089	28	2704.02	5	0.576	35	0	35	0	35	0	35
14		min	-0.472	32	176.319	33	-0.586	33	0	1	0	1	0	1
15	N1	max	0.599	31	2783.121	31	557.075	31	0	35	0	35	0	35
16		min	-0.652	32	-697.764	33	-308.657	33	0	1	0	1	0	1
17	N9	max	1.176	34	1588.255	5	0.919	29	0	35	0	35	0	35
18		min	-1.225	32	164.194	32	-0.242	33	0	1	0	1	0	1
19	N8	max	0.411	34	2705.805	5	0.531	35	0	35	0	35	0	35
20		min	-1.16	30	176.874	33	-0.54	33	0	1	0	1	0	1
21	N12	max	1.499	34	1584.702	5	0.256	35	0	35	0	35	0	35
22		min	-1.524	32	168.138	34	-0.943	31	0	1	0	1	0	1
23	N2	max	0.351	24	854.175	5	0.599	35	0	35	0	35	0	35
24		min	-0.919	30	98.326	22	-1.295	29	0	1	0	1	0	1
25	N3	max	446.403	34	2350.578	28	0.494	32	0	35	0	35	0	35
26		min	-672.436	28	-1034.694	34	-1.448	30	0	1	0	1	0	1
27	N4	max	701.399	30	2873.759	30	272.27	35	0	35	0	35	0	35
28		min	-396.042	32	-865.76	32	-878.824	29	0	1	0	1	0	1
29	N5	max	1.069	34	1587.638	5	0.229	35	0	35	0	35	0	35
30		min	-1.152	32	165.205	32	-0.948	31	0	1	0	1	0	1
31	N7	max	0	35	242.413	18	51.538	35	0	35	0	35	0	35
32		min	0	1	-17.968	20	-54.346	25	0	1	0	1	0	1
33	N6	max	0	35	422.266	18	66.433	27	0	35	0	35	0	35
34		min	0	1	-6.21	20	-64.084	33	0	1	0	1	0	1
35	N18	max	5.923	16	1314.084	5	0.399	29	0	35	0	35	0	35
36		min	-2.249	18	74.693	20	-0.289	31	0	1	0	1	0	1

Envelope Node Reactions (Continued)

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
37	N19	max	5.316	16	1168.103	5	0.355	29	0	35	0	35	0	35
38		min	-1.941	18	64.071	20	-0.256	31	0	1	0	1	0	1
39	N57	max	1.071	28	2709.334	5	0.493	35	0	35	0	35	0	35
40		min	-0.626	32	179.196	35	-0.496	33	0	1	0	1	0	1
41	N58	max	0.8	28	1589.559	5	0.218	35	0	35	0	35	0	35
42		min	-0.163	33	168.599	34	-0.925	31	0	1	0	1	0	1
43	N59	max	1.113	34	862.718	5	0.524	35	0	35	0	35	0	35
44		min	-1.123	32	124.847	32	-0.536	33	0	1	0	1	0	1
45	N60	max	0.92	31	1720.716	29	208.981	35	0	35	0	35	0	35
46		min	-0.502	33	-480.809	35	-395.84	29	0	1	0	1	0	1
47	N61	max	1.299	34	1512.627	31	543.989	31	0	35	0	35	0	35
48		min	-1.143	32	-508.394	33	-206.99	33	0	1	0	1	0	1
49	N62	max	0.708	28	1583.961	5	0.924	29	0	35	0	35	0	35
50		min	-0.352	30	167.026	34	-0.214	33	0	1	0	1	0	1
51	Totals:	max	1827.84	34	39630.652	5	1912.313	35						
52		min	-1827.84	24	3858.391	22	-1912.313	33						

Envelope Node Displacements

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
1	N1	max	0	32	0	33	0	33	3.463e-4	25	8.778e-5	32	4.759e-4	34
2		min	0	31	0	31	0	31	-3.4e-4	35	-1.128e-4	30	-4.807e-4	24
3	N2	max	0	30	0	22	0	29	5.53e-4	29	5.365e-3	22	2.216e-4	34
4		min	0	24	0	3	0	35	-3.657e-4	35	-5.45e-3	8	-2.744e-4	28
5	N3	max	0	28	0	34	0	30	4.897e-4	29	2.595e-4	30	3.346e-4	26
6		min	0	34	0	28	0	32	-2.949e-4	35	-9.615e-5	32	-3.093e-4	32
7	N4	max	0	32	0	32	0	29	2.779e-4	29	1.195e-4	34	3.875e-4	34
8		min	0	30	0	30	0	35	-1.667e-4	35	-2.758e-4	28	-4.108e-4	24
9	N5	max	0	32	0	32	0	31	3.775e-4	29	0	35	5.746e-4	34
10		min	0	34	0	3	0	35	-2.759e-4	35	0	1	-6.031e-4	24
11	N6	max	0.129	16	0	20	0	33	1.25e-2	33	1.692e-2	29	1.077e-4	22
12		min	-0.101	22	0	18	0	27	-1.296e-2	27	-1.529e-2	35	-1.728e-4	8
13	N7	max	0.128	16	0	20	0	25	1.271e-2	25	1.501e-2	33	8.917e-5	22
14		min	-0.101	22	0	18	0	35	-1.235e-2	35	-1.672e-2	31	-4.414e-4	16
15	N8	max	0	30	0	33	0	33	3.525e-4	25	0	35	4.223e-4	34
16		min	0	34	0	3	0	35	-3.485e-4	35	0	1	-5.101e-4	28
17	N9	max	0	32	0	32	0	33	2.811e-4	33	0	35	6.007e-4	34
18		min	0	34	0	3	0	29	-4.075e-4	31	0	1	-6.169e-4	24
19	N10	max	0	32	0	33	0	33	3.809e-4	25	0	35	4.58e-4	26
20		min	0	28	0	3	0	35	-3.762e-4	35	0	1	-4.395e-4	32
21	N11	max	0	31	0	35	0	29	2.572e-4	33	5.246e-4	29	4.387e-4	34
22		min	0	25	0	29	0	35	-3.738e-4	27	-6.465e-5	35	-4.517e-4	28
23	N12	max	0	32	0	34	0	31	4.268e-4	29	0	35	6.692e-4	34
24		min	0	34	0	3	0	35	-2.982e-4	35	0	1	-6.831e-4	24
25	N13	max	0	30	0	35	0	33	3.784e-4	25	0	35	4.619e-4	34
26		min	0	34	0	3	0	35	-3.738e-4	35	0	1	-5.153e-4	28
27	N14	max	0	32	0	32	0	33	3.842e-4	33	1.601e-4	31	3.926e-4	34
28		min	0	30	0	30	0	28	-4.559e-4	31	-1.003e-4	33	-4.149e-4	24
29	N15	max	0	28	0	34	0	32	2.877e-4	33	1.13e-4	33	3.131e-4	26
30		min	0	34	0	28	0	30	-4.896e-4	31	-4.01e-4	31	-3.019e-4	32
31	N16	max	0	32	0	34	0	33	3.019e-4	25	0	35	7.057e-4	34
32		min	0	34	0	3	0	29	-3.971e-4	31	0	1	-7.13e-4	24
33	N17	max	0	30	0	33	0	33	2.673e-4	25	5.276e-4	5	1.962e-4	34
34		min	0	32	0	31	0	31	-1.607e-4	31	1.724e-5	35	-3.798e-4	28
35	N18	max	0	18	0	20	0	31	2.32e-4	25	1.833e-4	25	2.56e-3	22
36		min	0	16	0	3	0	29	-2.259e-4	35	-1.766e-4	35	-3.087e-3	16

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
37	N19	max	0	18	0	20	0	31	2.318e-4	25	1.84e-4	25	2.562e-3	22
38		min	0	16	0	3	0	29	-2.257e-4	35	-1.762e-4	35	-3.132e-3	16
39	N20	max	0.128	16	0.001	20	0.208	25	-3.295e-4	21	1.852e-4	33	2.59e-4	18
40		min	-0.102	22	-0.004	18	-0.209	27	-5.29e-3	3	-1.899e-4	27	-7.541e-5	20
41	N21	max	0.129	16	0.002	8	0.208	25	5.415e-3	5	1.85e-4	33	1.025e-4	18
42		min	-0.102	22	-0.001	22	-0.209	27	3.383e-4	23	-1.905e-4	27	-9.115e-5	8
43	N22	max	0.127	16	0.002	20	0.141	25	6.456e-5	2	1.798e-4	33	5.124e-5	18
44		min	-0.103	22	-0.005	18	-0.141	27	-2.117e-4	25	-1.875e-4	27	4.207e-6	20
45	N23	max	0.129	16	0.002	8	0.141	25	2.951e-4	31	1.794e-4	33	6.275e-5	18
46		min	-0.102	22	-0.002	22	-0.141	27	-1.323e-5	33	-1.88e-4	27	5.011e-6	20
47	N24	max	0.127	16	0.002	20	0.073	25	2.727e-4	31	1.783e-4	33	3.2e-4	16
48		min	-0.102	22	-0.003	18	-0.073	27	-1.104e-5	33	-1.828e-4	27	-4.843e-5	22
49	N25	max	0.126	16	0.001	20	0.073	25	3.67e-5	2	1.787e-4	33	1.279e-4	16
50		min	-0.102	22	-0.005	18	-0.073	27	-2.117e-4	25	-1.822e-4	27	-5.946e-5	22
51	N26	max	0.122	16	0	20	0.009	25	6.109e-3	5	1.833e-4	25	7.592e-4	16
52		min	-0.101	22	-0.007	3	-0.009	35	4.004e-4	35	-1.766e-4	35	-4.604e-5	22
53	N27	max	0.124	16	0	20	0.009	25	-4.021e-4	33	1.84e-4	25	3.813e-4	16
54		min	-0.101	22	-0.006	3	-0.009	35	-6.142e-3	3	-1.762e-4	35	-6.771e-5	22
55	N28	max	0.015	28	0	22	0.006	33	2.242e-4	29	4.367e-4	28	3.956e-4	30
56		min	-0.012	34	-0.005	3	-0.006	31	-1.542e-4	35	-9.525e-5	34	-1.875e-4	32
57	N29	max	0.116	16	-0.001	22	0.1	25	3.908e-5	33	2.709e-4	29	1.06e-3	16
58		min	-0.101	22	-0.015	16	-0.099	27	-3.884e-4	31	-1.63e-4	35	-3.873e-5	22
59	N30	max	0.114	8	-0.001	22	0.1	25	2.36e-4	25	2.652e-4	29	1.661e-3	16
60		min	-0.101	22	-0.022	16	-0.099	27	-1.151e-4	2	-1.635e-4	35	-4.28e-6	22
61	N31	max	0.11	8	0	22	0.194	25	-2.065e-4	33	3.867e-4	29	1.104e-3	16
62		min	-0.1	22	-0.029	16	-0.194	27	-4.053e-3	3	-1.376e-4	35	-1.112e-4	22
63	N32	max	0.108	8	-0.001	22	0.194	25	3.417e-3	5	3.836e-4	29	1.709e-3	16
64		min	-0.101	22	-0.044	16	-0.194	27	1.6e-4	35	-1.379e-4	35	-7.66e-5	22
65	N33	max	0.105	8	0.002	22	0.204	33	-1.384e-4	22	4.768e-4	29	8.47e-4	16
66		min	-0.099	22	-0.041	16	-0.204	35	-1.616e-3	3	-1.076e-4	35	-2.104e-4	22
67	N34	max	0.102	8	0.001	22	0.204	33	7.067e-4	5	4.741e-4	29	1.235e-3	16
68		min	-0.1	22	-0.062	16	-0.204	35	7.692e-5	33	-1.075e-4	35	-1.883e-4	22
69	N35	max	0.024	24	-0.001	22	0.018	25	8.234e-5	35	5.365e-3	22	5.198e-4	30
70		min	-0.024	34	-0.009	3	-0.017	35	-5.331e-4	29	-5.45e-3	8	-4.33e-4	32
71	N36	max	0.025	24	0.003	33	0.017	25	2.718e-3	5	4.463e-4	24	3.219e-5	32
72		min	-0.025	34	-0.025	31	-0.017	35	9.579e-5	35	-4.404e-4	34	-4.594e-5	30
73	N37	max	0.025	24	-0.002	34	0.018	25	4.329e-4	29	0	35	4.909e-4	32
74		min	-0.024	34	-0.016	3	-0.018	35	-7.399e-5	35	0	1	-4.967e-4	26
75	N38	max	0.025	24	0.004	33	0.017	25	2.676e-4	29	5.234e-4	5	7.169e-4	30
76		min	-0.024	34	-0.009	31	-0.017	35	-3.7e-4	27	1.583e-5	35	-4.626e-4	32
77	N39	max	0.025	24	-0.002	33	0.018	25	7.583e-5	35	0	35	1.145e-4	35
78		min	-0.024	34	-0.028	3	-0.018	35	-7.743e-5	25	0	1	-3.631e-4	29
79	N40	max	0.025	24	-0.002	35	0.018	25	7.588e-5	27	0	35	3.526e-4	29
80		min	-0.024	34	-0.028	3	-0.018	35	-7.303e-5	33	0	1	-1.108e-4	35
81	N41	max	0.025	24	0.003	35	0.017	25	2.987e-4	16	5.331e-4	29	3.833e-4	31
82		min	-0.024	34	-0.017	29	-0.017	35	-4.416e-5	22	-6.434e-5	35	-2.685e-4	33
83	N42	max	0.024	24	-0.002	32	0.017	25	4.122e-4	29	0	35	3.105e-4	24
84		min	-0.024	34	-0.017	3	-0.017	35	-6.391e-5	35	0	1	-2.889e-4	34
85	N43	max	0.025	24	0.003	33	0.017	25	3.035e-5	35	8.753e-5	32	3.465e-5	32
86		min	-0.024	34	-0.021	31	-0.017	35	-5.127e-5	29	-1.13e-4	30	-5.087e-5	30
87	N44	max	0.024	24	0.005	32	0.017	25	4.384e-4	28	1.601e-4	31	1.875e-4	30
88		min	-0.024	34	-0.015	30	-0.017	35	-1.868e-4	34	-1.004e-4	33	-9.034e-5	32
89	N45	max	0.025	24	-0.002	34	0.018	25	2.623e-3	5	4.539e-4	24	1.092e-4	35
90		min	-0.025	34	-0.032	3	-0.018	35	1.257e-4	34	-4.191e-4	34	-3.584e-4	29
91	N46	max	0.096	20	0.004	22	0.017	25	3.433e-5	22	2.919e-3	22	2.07e-3	16

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
92		min	-0.098	10	-0.074	16	-0.017	35	-1.916e-3	16	-2.973e-3	8	-1.531e-4	22
93	N47	max	0.025	24	-0.002	33	0.017	25	2.709e-3	5	4.451e-4	24	4.16e-4	29
94		min	-0.025	34	-0.032	3	-0.017	35	2.301e-4	35	-4.346e-4	34	-1.221e-4	35
95	N48	max	0.025	24	0.003	35	0.017	25	6.379e-4	16	1.017e-3	16	4.169e-4	31
96		min	-0.025	34	-0.018	29	-0.017	35	-8.421e-5	22	-6.848e-4	22	-2.373e-4	33
97	N49	max	0.025	24	-0.002	35	0.018	25	2.715e-3	5	4.279e-4	24	3.446e-4	29
98		min	-0.025	34	-0.032	3	-0.018	35	2.307e-4	34	-3.844e-4	34	-1.056e-4	35
99	N50	max	0.024	24	0.005	34	0.018	25	1.708e-4	32	2.602e-4	30	2.293e-4	34
100		min	-0.023	34	-0.015	28	-0.018	35	-6.747e-4	30	-9.662e-5	32	-4.166e-4	28
101	N51	max	0.024	24	-0.002	34	0.018	25	6.885e-5	33	0	35	4.572e-4	24
102		min	-0.024	34	-0.017	3	-0.018	35	-4.221e-4	31	0	1	-4.41e-4	34
103	N52	max	0.099	8	0.005	22	0.018	25	5.832e-4	16	2.814e-3	20	1.472e-3	16
104		min	-0.096	22	-0.05	16	-0.017	35	-6.678e-5	22	-2.862e-3	10	-1.872e-4	22
105	N53	max	0.024	24	0.004	32	0.017	25	2.914e-4	33	1.197e-4	34	1.953e-4	30
106		min	-0.024	34	-0.011	30	-0.017	35	-5.506e-4	31	-2.754e-4	28	-8.817e-5	32
107	N54	max	0.024	24	-0.002	32	0.017	25	7.032e-5	33	0	35	3.473e-4	28
108		min	-0.024	34	-0.017	3	-0.017	35	-4.237e-4	31	0	1	-2.391e-4	34
109	N55	max	0.025	24	-0.002	33	0.017	25	6.895e-5	35	0	35	4.233e-4	29
110		min	-0.024	34	-0.028	3	-0.017	35	-6.976e-5	25	0	1	-1.275e-4	35
111	N56	max	0.024	24	0.005	34	0.018	25	6.778e-4	30	1.121e-4	33	2.811e-4	34
112		min	-0.024	34	-0.016	28	-0.018	35	-1.836e-4	32	-4.003e-4	31	-3.68e-4	28
113	N57	max	0	32	0	35	0	33	3.264e-4	25	0	35	5.017e-4	26
114		min	0	28	0	3	0	35	-3.21e-4	35	0	1	-4.777e-4	32
115	N58	max	0	33	0	34	0	31	3.723e-4	29	0	35	3.481e-4	26
116		min	0	28	0	3	0	35	-2.559e-4	35	0	1	-3.345e-4	32
117	N59	max	0	32	0	32	0	33	3.096e-4	25	0	35	5.835e-4	34
118		min	0	34	0	3	0	35	-3.004e-4	35	0	1	-5.913e-4	24
119	N60	max	0	33	0	35	0	29	2.637e-4	25	1.183e-4	31	4.318e-4	34
120		min	0	31	0	29	0	35	-2.62e-4	35	-8.369e-5	25	-4.379e-4	24
121	N61	max	0	32	0	33	0	33	1.257e-4	33	3.831e-4	32	6.252e-4	26
122		min	0	34	0	31	0	31	-1.505e-4	31	-4.812e-4	30	-6.e-4	32
123	N62	max	0	30	0	34	0	33	2.579e-4	25	0	35	3.209e-4	26
124		min	0	28	0	3	0	29	-3.819e-4	31	0	1	-3.147e-4	32
125	N63	max	0.012	24	0	33	0.004	33	1.598e-4	29	9.176e-5	32	2.368e-4	34
126		min	-0.012	34	-0.004	3	-0.005	31	-1.193e-4	35	-1.353e-4	30	-2.467e-4	28
127	N64	max	0.025	24	-0.002	35	0.016	25	2.714e-3	5	5.915e-4	8	1.184e-4	35
128		min	-0.025	34	-0.032	3	-0.015	35	2.344e-4	33	-5.775e-4	22	-4.118e-4	29
129	N65	max	0.025	24	0.002	33	0.013	25	2.909e-4	29	3.836e-4	32	2.74e-4	32
130		min	-0.024	34	-0.008	31	-0.013	35	-2.368e-4	35	-4.813e-4	30	-4.752e-4	30
131	N66	max	0.025	24	-0.002	35	0.016	25	6.387e-5	35	0	35	1.237e-4	35
132		min	-0.024	34	-0.028	3	-0.015	35	-6.489e-5	25	0	1	-4.189e-4	29
133	N67	max	0.025	24	-0.002	34	0.016	25	4.16e-4	29	0	35	2.811e-4	34
134		min	-0.024	34	-0.017	3	-0.015	35	-6.298e-5	35	0	1	-3.032e-4	24
135	N68	max	0.025	24	0.001	35	0.014	25	3.22e-3	5	1.591e-3	8	2.498e-4	33
136		min	-0.025	34	-0.016	29	-0.013	35	1.136e-3	33	-1.582e-3	22	-4.37e-4	31
137	N69	max	0.025	24	-0.002	34	0.016	25	5.975e-5	33	0	35	2.326e-4	34
138		min	-0.024	34	-0.017	3	-0.015	35	-4.143e-4	31	0	1	-3.415e-4	28
139	N70	max	0.025	24	-0.001	32	0.014	25	9.202e-5	35	0	35	2.435e-4	32
140		min	-0.024	34	-0.009	3	-0.013	35	-1.472e-4	29	0	1	-2.707e-4	30
141	N71	max	0.025	24	0.002	35	0.014	25	4.615e-5	31	1.184e-4	31	2.573e-4	25
142		min	-0.024	34	-0.012	29	-0.013	35	-1.405e-5	33	-8.387e-5	25	-4.46e-4	31
143	N72	max	0.02	28	0.001	32	0.007	29	1.571e-4	33	6.852e-5	34	2.528e-4	34
144		min	-0.014	34	-0.007	30	-0.006	35	-2.432e-4	31	-1.145e-4	28	-2.551e-4	24
145	N73	max	0.008	24	-0.001	35	0.009	25	1.703e-4	25	6.657e-5	33	2.393e-4	26
146		min	-0.008	34	-0.005	3	-0.009	35	-1.656e-4	35	-1.238e-4	31	-2.222e-4	32

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
147	N74	max	0.008	32	0	35	0.008	25	1.966e-4	33	3.04e-5	35	2.161e-4	34
148		min	-0.008	26	-0.005	29	-0.008	35	-2.147e-4	31	-1.054e-4	29	-2.438e-4	28

Envelope Member Section Forces

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1	M1	1	max	1500.471	28	-0.008	35	1.422	30	0.004	26	0.003	26	0	35
2			min	-456.062	34	-0.257	29	-0.354	32	-0.003	32	-0.003	32	0	1
3		2	max	1498.614	28	-0.008	35	1.422	30	0.004	26	2.348	30	0.425	29
4			min	-457.176	34	-0.257	29	-0.354	32	-0.003	32	-0.587	32	0.012	35
5		3	max	1496.756	28	-0.008	35	1.422	30	0.004	26	4.694	30	0.85	29
6			min	-458.291	34	-0.257	29	-0.354	32	-0.003	32	-1.172	32	0.025	35
7		4	max	1494.899	28	-0.008	35	1.422	30	0.004	26	7.04	30	1.274	29
8			min	-459.405	34	-0.257	29	-0.354	32	-0.003	32	-1.757	32	0.037	35
9		5	max	1493.042	28	-0.008	35	1.422	30	0.004	26	9.386	30	1.699	29
10			min	-460.52	34	-0.257	29	-0.354	32	-0.003	32	-2.341	32	0.05	35
11	M2	1	max	841.801	31	1.093	30	0.446	2	0.019	28	0	35	0.014	28
12			min	-332.841	33	-0.318	32	-0.505	8	-0.007	34	0	1	-0.005	34
13		2	max	839.944	31	1.093	30	0.446	2	0.019	28	0.737	2	0.531	32
14			min	-333.955	33	-0.318	32	-0.505	8	-0.007	34	-0.833	8	-1.799	30
15		3	max	838.087	31	1.093	30	0.446	2	0.019	28	1.473	2	1.056	32
16			min	-335.07	33	-0.318	32	-0.505	8	-0.007	34	-1.667	8	-3.603	30
17		4	max	836.23	31	1.093	30	0.446	2	0.019	28	2.21	2	1.58	32
18			min	-336.184	33	-0.318	32	-0.505	8	-0.007	34	-2.5	8	-5.408	30
19		5	max	834.372	31	1.093	30	0.446	2	0.019	28	2.947	2	2.104	32
20			min	-337.299	33	-0.318	32	-0.505	8	-0.007	34	-3.333	8	-7.212	30
21	M3	1	max	2704.02	5	0.562	32	0.643	35	0	35	0	35	0	35
22			min	176.319	33	-0.976	30	-0.652	25	0	1	0	1	0	1
23		2	max	2702.162	5	0.562	32	0.643	35	0	35	1.061	35	1.61	30
24			min	175.205	33	-0.976	30	-0.652	25	0	1	-1.076	25	-0.927	32
25		3	max	2700.305	5	0.562	32	0.643	35	0	35	2.122	35	3.22	30
26			min	174.09	33	-0.976	30	-0.652	25	0	1	-2.151	25	-1.854	32
27		4	max	2698.448	5	0.562	32	0.643	35	0	35	3.182	35	4.83	30
28			min	172.976	33	-0.976	30	-0.652	25	0	1	-3.227	25	-2.781	32
29		5	max	2696.591	5	0.562	32	0.643	35	0	35	4.243	35	6.44	30
30			min	171.862	33	-0.976	30	-0.652	25	0	1	-4.302	25	-3.708	32
31	M4	1	max	1637.8	29	0.891	31	0.691	27	0.004	34	0	35	0.024	28
32			min	-284.162	35	-0.606	33	-0.166	33	-0.031	28	0	1	-0.003	34
33		2	max	1635.943	29	0.891	31	0.691	27	0.004	34	1.14	27	1.004	33
34			min	-285.277	35	-0.606	33	-0.166	33	-0.031	28	-0.273	33	-1.452	31
35		3	max	1634.086	29	0.891	31	0.691	27	0.004	34	2.28	27	2.004	33
36			min	-286.391	35	-0.606	33	-0.166	33	-0.031	28	-0.546	33	-2.922	31
37		4	max	1632.228	29	0.891	31	0.691	27	0.004	34	3.421	27	3.005	33
38			min	-287.505	35	-0.606	33	-0.166	33	-0.031	28	-0.819	33	-4.392	31
39		5	max	1630.371	29	0.891	31	0.691	27	0.004	34	4.561	27	4.005	33
40			min	-288.62	35	-0.606	33	-0.166	33	-0.031	28	-1.092	33	-5.862	31
41	M5	1	max	55.882	29	0	35	4.313	31	0.038	30	0	35	0	35
42			min	-22.444	35	0	1	0	2	-0.02	32	0	1	0	1
43		2	max	55.882	29	0	35	2.156	31	0.038	30	4.043	31	0	35
44			min	-22.444	35	0	1	0	2	-0.02	32	0	2	0	1
45		3	max	55.882	29	0	35	0	35	0.038	30	5.391	31	0	35
46			min	-22.444	35	0	1	0	1	-0.02	32	0	2	0	1
47		4	max	55.882	29	0	35	0	2	0.038	30	4.043	31	0	35
48			min	-22.444	35	0	1	-2.156	1	-0.02	32	0	2	0	1
49		5	max	55.882	29	0	35	0	2	0.038	30	0	35	0	35
50			min	-22.444	35	0	1	-4.313	1	-0.02	32	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
51	M6	1	max	37.731	24	34.331	35	678.668	5	0.006	33	0	35	0	35
52			min	-35.646	34	-34.331	25	39.371	20	-0.009	31	0	1	0	1
53		2	max	21.764	28	17.267	35	341.327	5	0.006	33	635.123	5	32.128	33
54			min	-18.582	34	-17.267	25	19.794	20	-0.009	31	36.848	20	-32.128	27
55		3	max	17.742	18	0.296	35	5.809	5	0.006	33	853.217	5	43.162	33
56			min	-12.683	20	-0.296	25	0.317	20	-0.009	31	49.479	20	-43.162	27
57		4	max	18.995	30	17.483	33	-20.025	35	0.006	33	641.331	5	32.444	33
58			min	-14.593	32	-17.483	27	-345.57	3	-0.009	31	37.187	20	-32.444	27
59		5	max	33.809	26	34.592	33	-39.651	35	0.006	33	0	35	0	35
60			min	-31.703	32	-34.592	27	-683.803	3	-0.009	31	0	1	0	1
61	M7	1	max	27.709	32	34.33	35	678.657	5	0	35	0	35	0	35
62			min	-50.623	30	-34.33	25	39.37	20	-0.001	16	0	1	0	1
63		2	max	20.134	22	17.255	35	341.103	5	0	35	634.974	5	32.12	33
64			min	-45.515	16	-17.255	25	19.782	20	-0.001	16	36.84	20	-32.12	27
65		3	max	20.134	22	0.306	35	6.009	5	0	35	853.013	5	43.152	33
66			min	-45.515	16	-0.306	25	0.328	20	-0.001	16	49.468	20	-43.152	27
67		4	max	20.134	22	17.478	33	-20.02	35	0	35	641.268	5	32.441	33
68			min	-45.515	16	-17.478	27	-345.467	3	-0.001	16	37.184	20	-32.441	27
69		5	max	34.916	34	34.592	33	-39.65	35	0	35	0	35	0	35
70			min	-56.425	28	-34.592	27	-683.791	3	-0.001	16	0	1	0	1
71	M8	1	max	42.338	10	35.047	35	692.741	5	0.007	22	0	35	0	35
72			min	-39.908	20	-35.047	25	40.138	20	-0.047	16	0	1	0	1
73		2	max	42.338	10	17.494	35	345.784	5	0.007	22	646.593	5	32.712	33
74			min	-39.908	20	-17.494	25	20.037	20	-0.047	16	37.474	20	-32.712	27
75		3	max	42.338	10	0.205	35	4.035	5	0.007	22	865.883	5	43.807	33
76			min	-39.908	20	-0.205	25	0.22	20	-0.047	16	50.17	20	-43.807	27
77		4	max	47.151	26	17.764	33	-20.327	35	0.007	22	649.145	5	32.842	33
78			min	-44.825	32	-17.764	27	-351.091	3	-0.047	16	37.613	20	-32.842	27
79		5	max	64.345	26	34.957	33	-40.042	35	0.007	22	0	35	0	35
80			min	-62.019	32	-34.957	27	-690.977	3	-0.047	16	0	1	0	1
81	M9	1	max	50.559	33	36.246	33	778.783	5	0.061	32	0	35	0	35
82			min	-239.573	31	-36.246	27	78.922	20	-0.084	30	0	1	0	1
83		2	max	50.559	33	18.127	33	389.48	5	0.061	32	730.185	5	33.984	35
84			min	-239.573	31	-18.127	27	39.466	20	-0.084	30	73.994	20	-33.984	25
85		3	max	50.559	33	0.01	35	-0.011	35	0.061	32	973.505	5	45.309	35
86			min	-239.573	31	-0.01	25	-0.194	3	-0.084	30	98.654	20	-45.309	25
87		4	max	50.559	33	18.125	35	-39.463	35	0.061	32	729.925	5	33.971	35
88			min	-239.573	31	-18.125	25	-389.428	3	-0.084	30	73.98	20	-33.971	25
89		5	max	50.559	33	36.231	35	-78.907	35	0.061	32	0	35	0	35
90			min	-239.573	31	-36.231	25	-778.496	3	-0.084	30	0	1	0	1
91	M10	1	max	129.005	26	36.238	33	778.621	5	0.047	30	0	35	0	35
92			min	-127.833	32	-36.238	27	78.913	20	-0.028	32	0	1	0	1
93		2	max	110.903	26	18.136	33	389.639	5	0.047	30	730.573	5	34.004	35
94			min	-109.731	32	-18.136	27	39.475	20	-0.028	32	74.015	20	-34.004	25
95		3	max	92.767	26	0	35	0	35	0.047	30	974.098	5	45.339	35
96			min	-95.17	28	0	1	0	1	-0.028	32	98.687	20	-45.339	25
97		4	max	84.718	25	18.136	35	-39.475	35	0.047	30	730.573	5	34.004	35
98			min	-88.619	31	-18.136	25	-389.639	3	-0.028	32	74.015	20	-34.004	25
99		5	max	84.718	25	36.241	35	-78.917	35	0.047	30	0	35	0	35
100			min	-88.619	31	-36.241	25	-778.681	3	-0.028	32	0	1	0	1
101	M11	1	max	61.753	26	35.698	33	768.016	5	0.066	31	0	35	0	35
102			min	-58.889	32	-35.698	27	78.335	20	-0.013	33	0	1	0	1
103		2	max	46.415	25	17.865	33	384.321	5	0.066	31	720.601	5	33.496	35
104			min	-43.553	35	-17.865	27	39.185	20	-0.013	33	73.471	20	-33.496	25
105		3	max	46.415	25	0	35	0	35	0.066	31	960.801	5	44.662	35

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
106			min	-43.553	35	0	1	0	1	-0.013	33	97.961	20	-44.662	25
107		4	max	46.415	25	17.865	35	-39.185	35	0.066	31	720.601	5	33.496	35
108			min	-43.553	35	-17.865	25	-384.321	3	-0.013	33	73.471	20	-33.496	25
109		5	max	46.415	25	35.698	35	-78.335	35	0.066	31	0	35	0	35
110			min	-43.553	35	-35.698	25	-768.016	3	-0.013	33	0	1	0	1
111	M12	1	max	10.204	31	0	35	4.313	31	0.051	30	0	35	0	35
112			min	-9.58	33	0	1	0	2	-0.042	32	0	1	0	1
113		2	max	10.204	31	0	35	2.156	31	0.051	30	4.043	31	0	35
114			min	-9.58	33	0	1	0	2	-0.042	32	0	2	0	1
115		3	max	10.204	31	0	35	0	35	0.051	30	5.391	31	0	35
116			min	-9.58	33	0	1	0	1	-0.042	32	0	2	0	1
117		4	max	10.204	31	0	35	0	2	0.051	30	4.043	31	0	35
118			min	-9.58	33	0	1	-2.156	1	-0.042	32	0	2	0	1
119		5	max	10.204	31	0	35	0	2	0.051	30	0	35	0	35
120			min	-9.58	33	0	1	-4.313	1	-0.042	32	0	1	0	1
121	M13	1	max	27.203	16	0	35	4.313	31	0.07	32	0	35	0	35
122			min	-7.727	22	0	1	0	2	-0.097	30	0	1	0	1
123		2	max	27.203	16	0	35	2.156	31	0.07	32	4.043	31	0	35
124			min	-7.727	22	0	1	0	2	-0.097	30	0	2	0	1
125		3	max	27.203	16	0	35	0	35	0.07	32	5.391	31	0	35
126			min	-7.727	22	0	1	0	1	-0.097	30	0	2	0	1
127		4	max	27.203	16	0	35	0	2	0.07	32	4.043	31	0	35
128			min	-7.727	22	0	1	-2.156	1	-0.097	30	0	2	0	1
129		5	max	27.203	16	0	35	0	2	0.07	32	0	35	0	35
130			min	-7.727	22	0	1	-4.313	1	-0.097	30	0	1	0	1
131	M14	1	max	78.585	35	55.904	10	124.817	16	0.119	34	0	35	0	35
132			min	-180.384	29	-55.717	8	14.151	22	-0.509	28	0	1	0	1
133		2	max	78.585	35	46.904	10	104.773	16	0.119	34	86.096	16	38.413	8
134			min	-180.384	29	-46.717	8	2.125	22	-0.509	28	6.103	22	-38.553	10
135		3	max	78.585	35	37.904	10	84.729	16	0.119	34	157.16	16	70.076	8
136			min	-180.384	29	-37.717	8	-9.902	22	-0.509	28	3.187	22	-70.357	10
137		4	max	78.585	35	28.904	10	64.686	16	0.119	34	213.19	16	94.988	8
138			min	-180.384	29	-28.717	8	-24.616	10	-0.509	28	-8.749	22	-95.41	10
139		5	max	78.585	35	19.904	10	61.107	2	0.119	34	254.188	16	113.151	8
140			min	-180.384	29	-19.717	8	-44.66	10	-0.509	28	-29.705	22	-113.713	10
141	M15	1	max	1588.255	5	1.319	24	1.022	31	0	35	0	35	0	35
142			min	164.194	32	-1.265	34	-0.3	33	0	1	0	1	0	1
143		2	max	1586.398	5	1.319	24	1.022	31	0	35	1.686	31	2.087	34
144			min	163.08	32	-1.265	34	-0.3	33	0	1	-0.495	33	-2.176	24
145		3	max	1584.541	5	1.319	24	1.022	31	0	35	3.372	31	4.175	34
146			min	161.965	32	-1.265	34	-0.3	33	0	1	-0.99	33	-4.352	24
147		4	max	1582.684	5	1.319	24	1.022	31	0	35	5.058	31	6.262	34
148			min	160.851	32	-1.265	34	-0.3	33	0	1	-1.485	33	-6.528	24
149		5	max	1580.826	5	1.319	24	1.022	31	0	35	6.744	31	8.35	34
150			min	159.737	32	-1.265	34	-0.3	33	0	1	-1.98	33	-8.704	24
151	M16	1	max	2705.805	5	1.114	28	0.594	35	0	35	0	35	0	35
152			min	176.874	33	-0.5	34	-0.6	25	0	1	0	1	0	1
153		2	max	2703.948	5	1.114	28	0.594	35	0	35	0.98	35	0.824	34
154			min	175.76	33	-0.5	34	-0.6	25	0	1	-0.991	25	-1.838	28
155		3	max	2702.091	5	1.114	28	0.594	35	0	35	1.959	35	1.649	34
156			min	174.646	33	-0.5	34	-0.6	25	0	1	-1.982	25	-3.676	28
157		4	max	2700.234	5	1.114	28	0.594	35	0	35	2.939	35	2.473	34
158			min	173.531	33	-0.5	34	-0.6	25	0	1	-2.972	25	-5.514	28
159		5	max	2698.376	5	1.114	28	0.594	35	0	35	3.918	35	3.297	34
160			min	172.417	33	-0.5	34	-0.6	25	0	1	-3.963	25	-7.352	28

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
161	M17	1	max	9.636	31	0	35	4.313	31	0.052	32	0	35	0	35
162			min	-7.585	33	0	1	0	2	-0.078	30	0	1	0	1
163		2	max	9.636	31	0	35	2.156	31	0.052	32	4.043	31	0	35
164			min	-7.585	33	0	1	0	2	-0.078	30	0	2	0	1
165		3	max	9.636	31	0	35	0	35	0.052	32	5.391	31	0	35
166			min	-7.585	33	0	1	0	1	-0.078	30	0	2	0	1
167		4	max	9.636	31	0	35	0	2	0.052	32	4.043	31	0	35
168			min	-7.585	33	0	1	-2.156	1	-0.078	30	0	2	0	1
169		5	max	9.636	31	0	35	0	2	0.052	32	0	35	0	35
170			min	-7.585	33	0	1	-4.313	1	-0.078	30	0	1	0	1
171	M18	1	max	39.522	32	34.318	35	678.425	5	0.009	31	0	35	0	35
172			min	-49.189	30	-34.318	25	39.357	20	-0.005	33	0	1	0	1
173		2	max	22.457	32	17.253	35	341.049	5	0.009	31	634.97	5	32.12	33
174			min	-36.39	30	-17.253	25	19.779	20	-0.005	33	36.84	20	-32.12	27
175		3	max	7.006	35	0.299	35	5.879	5	0.009	31	852.845	5	43.143	33
176			min	-24.88	29	-0.299	25	0.321	20	-0.005	33	49.459	20	-43.143	27
177		4	max	8.014	34	17.476	33	-20.018	35	0.009	31	641.043	5	32.429	33
178			min	-25.605	28	-17.476	27	-345.439	3	-0.005	33	37.171	20	-32.429	27
179		5	max	25.142	34	34.605	33	-39.664	35	0.009	31	0	35	0	35
180			min	-38.451	28	-34.605	27	-684.047	3	-0.005	33	0	1	0	1
181	M19	1	max	61.646	33	36.246	33	778.783	5	0.035	30	0	35	0	35
182			min	-98.165	31	-36.246	27	78.922	20	-0.032	24	0	1	0	1
183		2	max	61.646	33	18.127	33	389.48	5	0.035	30	730.185	5	33.984	35
184			min	-98.165	31	-18.127	27	39.466	20	-0.032	24	73.994	20	-33.984	25
185		3	max	66.879	32	0.01	35	-0.011	35	0.035	30	973.505	5	45.309	35
186			min	-102.35	30	-0.01	25	-0.194	3	-0.032	24	98.654	20	-45.309	25
187		4	max	84.994	32	18.125	35	-39.463	35	0.035	30	729.925	5	33.971	35
188			min	-115.936	30	-18.125	25	-389.428	3	-0.032	24	73.98	20	-33.971	25
189		5	max	103.1	32	36.231	35	-78.907	35	0.035	30	0	35	0	35
190			min	-129.516	30	-36.231	25	-778.496	3	-0.032	24	0	1	0	1
191	M20	1	max	1139.425	31	1.169	27	0.058	27	0.005	34	0	35	0	35
192			min	-461.78	33	-0.079	2	-0.295	29	-0.009	28	0	1	0	1
193		2	max	1140.359	31	0.461	27	0.058	27	0.005	34	0.639	27	-0.032	2
194			min	-461.219	33	-0.079	2	-0.295	29	-0.009	28	-0.147	2	-0.66	29
195		3	max	1141.294	31	-0.079	2	0.058	27	0.005	34	0.76	27	-0.064	2
196			min	-460.659	33	-0.486	25	-0.295	29	-0.009	28	-0.294	2	-0.801	29
197		4	max	1142.228	31	-0.079	2	0.058	27	0.005	34	0.374	35	0.148	33
198			min	-460.098	33	-1.194	25	-0.295	29	-0.009	28	-0.873	29	-0.424	29
199		5	max	1143.163	31	-0.079	2	0.058	27	0.005	34	-0.123	35	1.215	25
200			min	-459.537	33	-1.902	25	-0.295	29	-0.009	28	-2.201	29	-0.129	2
201	M21	1	max	2.625	21	134.038	20	38.204	22	0.762	16	250.088	16	106.789	20
202			min	-100.004	19	-137.812	10	-294.689	16	-0.078	22	-32.418	22	-112.846	10
203		2	max	2.625	21	140.038	20	35.914	22	0.762	16	94.045	16	38.27	20
204			min	-100.004	19	-143.812	10	-326.201	16	-0.078	22	-13.936	22	-42.44	10
205		3	max	2.625	21	146.038	20	34.11	22	0.762	16	3.569	22	31.516	22
206			min	-100.004	19	-149.812	10	-349.302	16	-0.078	22	-74.843	16	-33.92	8
207		4	max	2.625	21	152.038	20	32.167	22	0.762	16	20.141	22	107.401	22
208			min	-100.004	19	-155.812	10	-374.825	16	-0.078	22	-255.829	16	-108.195	8
209		5	max	2.625	21	158.038	20	30.171	22	0.762	16	35.733	22	186.778	10
210			min	-100.004	19	-161.812	10	-401.237	16	-0.078	22	-449.722	16	-185.469	8
211	M22	1	max	1403.382	30	0.591	28	1.19	31	0	29	0	35	0	35
212			min	-460.867	32	-0.394	34	-0.704	33	0	35	0	29	0	1
213		2	max	1401.524	30	0.591	28	1.19	31	0	29	1.963	31	0.65	34
214			min	-461.981	32	-0.394	34	-0.704	33	0	35	-1.162	33	-0.975	28
215		3	max	1399.667	30	0.591	28	1.19	31	0	29	3.926	31	1.3	34

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
216			min	-463.095	32	-0.394	34	-0.704	33	0	35	-2.324	33	-1.95	28
217		4	max	1397.81	30	0.591	28	1.19	31	0	29	5.889	31	1.95	34
218			min	-464.21	32	-0.394	34	-0.704	33	0	35	-3.486	33	-2.925	28
219		5	max	1395.953	30	0.591	28	1.19	31	0	29	7.852	31	2.6	34
220			min	-465.324	32	-0.394	34	-0.704	33	0	35	-4.648	33	-3.9	28
221	M23	1	max	1571.981	5	1.711	24	1.016	31	0	35	0	35	0	35
222			min	166.303	34	-1.708	26	-0.315	33	0	1	0	1	0	1
223		2	max	1570.124	5	1.711	24	1.016	31	0	35	1.676	31	2.819	26
224			min	165.188	34	-1.708	26	-0.315	33	0	1	-0.52	33	-2.823	24
225		3	max	1568.266	5	1.711	24	1.016	31	0	35	3.352	31	5.638	26
226			min	164.074	34	-1.708	26	-0.315	33	0	1	-1.041	33	-5.645	24
227		4	max	1566.409	5	1.711	24	1.016	31	0	35	5.028	31	8.457	26
228			min	162.96	34	-1.708	26	-0.315	33	0	1	-1.561	33	-8.468	24
229		5	max	1564.552	5	1.711	24	1.016	31	0	35	6.704	31	11.276	26
230			min	161.845	34	-1.708	26	-0.315	33	0	1	-2.082	33	-11.29	24
231	M24	1	max	2045.302	31	0.731	24	0.527	35	0.002	28	0	35	0.001	28
232			min	-292.46	33	-0.732	26	-0.548	25	-0.001	34	0	1	-0.001	34
233		2	max	2043.444	31	0.731	24	0.527	35	0.002	28	0.869	35	1.208	26
234			min	-293.574	33	-0.732	26	-0.548	25	-0.001	34	-0.904	25	-1.206	24
235		3	max	2041.587	31	0.731	24	0.527	35	0.002	28	1.738	35	2.416	26
236			min	-294.688	33	-0.732	26	-0.548	25	-0.001	34	-1.808	25	-2.413	24
237		4	max	2039.73	31	0.731	24	0.527	35	0.002	28	2.607	35	3.624	26
238			min	-295.803	33	-0.732	26	-0.548	25	-0.001	34	-2.712	25	-3.619	24
239		5	max	2037.873	31	0.731	24	0.527	35	0.002	28	3.476	35	4.832	26
240			min	-296.917	33	-0.732	26	-0.548	25	-0.001	34	-3.616	25	-4.826	24
241	M25	1	max	2724.337	5	1.126	28	0.638	35	0	35	0	35	0	35
242			min	179.687	35	-0.672	34	-0.641	25	0	1	0	1	0	1
243		2	max	2722.48	5	1.126	28	0.638	35	0	35	1.053	35	1.108	34
244			min	178.573	35	-0.672	34	-0.641	25	0	1	-1.058	25	-1.859	28
245		3	max	2720.623	5	1.126	28	0.638	35	0	35	2.107	35	2.217	34
246			min	177.458	35	-0.672	34	-0.641	25	0	1	-2.116	25	-3.717	28
247		4	max	2718.765	5	1.126	28	0.638	35	0	35	3.16	35	3.325	34
248			min	176.344	35	-0.672	34	-0.641	25	0	1	-3.173	25	-5.576	28
249		5	max	2716.908	5	1.126	28	0.638	35	0	35	4.214	35	4.434	34
250			min	175.23	35	-0.672	34	-0.641	25	0	1	-4.231	25	-7.434	28
251	M26	1	max	811.54	29	1.416	29	0	29	0.039	28	0	35	0	35
252			min	-459.833	35	0	2	0	27	-0.005	34	0	1	0	1
253		2	max	810.605	29	0.708	29	0	29	0.039	28	0.777	29	0	2
254			min	-460.394	35	0	2	0	27	-0.005	34	0	2	-0.777	29
255		3	max	809.67	29	0	35	0	35	0.039	28	1.036	29	0	2
256			min	-460.955	35	0	1	0	1	-0.005	34	0	2	-1.036	29
257		4	max	808.736	29	0	2	0	29	0.039	28	0.777	29	0	2
258			min	-461.516	35	-0.708	27	0	27	-0.005	34	0	2	-0.777	29
259		5	max	807.801	29	0	2	0	29	0.039	28	0	35	0	35
260			min	-462.076	35	-1.416	27	0	27	-0.005	34	0	1	0	1
261	M27	1	max	804.937	29	1.416	30	0	30	0.009	34	0	35	0	35
262			min	-463.701	35	0	2	0	27	-0.014	28	0	1	0	1
263		2	max	804.003	29	0.708	30	0	30	0.009	34	0.777	30	0	2
264			min	-464.262	35	0	2	0	27	-0.014	28	0	2	-0.777	27
265		3	max	803.068	29	0	35	0	35	0.009	34	1.036	30	0	2
266			min	-464.823	35	0	1	0	1	-0.014	28	0	2	-1.036	27
267		4	max	802.133	29	0	2	0	29	0.009	34	0.777	30	0	2
268			min	-465.384	35	-0.708	29	0	27	-0.014	28	0	2	-0.777	27
269		5	max	801.199	29	0	2	0	30	0.009	34	0	35	0	35
270			min	-465.944	35	-1.416	29	0	27	-0.014	28	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
271	M28	1	max	1145.123	31	1.902	25	0.287	29	0.008	34	-0.118	35	1.219	25
272			min	-458.303	33	0.079	2	-0.06	27	-0.024	28	-2.175	29	-0.105	2
273		2	max	1146.057	31	1.194	25	0.287	29	0.008	34	0.378	35	0.149	33
274			min	-457.742	33	0.079	2	-0.06	27	-0.024	28	-0.854	29	-0.405	29
275		3	max	1146.992	31	0.486	25	0.287	29	0.008	34	0.763	27	-0.053	2
276			min	-457.182	33	0.079	2	-0.06	27	-0.024	28	-0.283	2	-0.788	29
277		4	max	1147.926	31	0.079	2	0.287	29	0.008	34	0.641	27	-0.026	2
278			min	-456.621	33	-0.461	27	-0.06	27	-0.024	28	-0.141	2	-0.653	29
279		5	max	1148.861	31	0.079	2	0.287	29	0.008	34	0	35	0	35
280			min	-456.06	33	-1.169	27	-0.06	27	-0.024	28	0	1	0	1
281	M29	1	max	1459.286	28	0.176	33	0.4	32	0.002	24	0.001	24	0	35
282			min	-447.034	34	-0.62	31	-1.458	30	-0.002	30	-0.002	30	0	1
283		2	max	1457.429	28	0.176	33	0.4	32	0.002	24	0.66	32	1.023	31
284			min	-448.148	34	-0.62	31	-1.458	30	-0.002	30	-2.407	30	-0.29	33
285		3	max	1455.571	28	0.176	33	0.4	32	0.002	24	1.32	32	2.046	31
286			min	-449.263	34	-0.62	31	-1.458	30	-0.002	30	-4.812	30	-0.58	33
287		4	max	1453.714	28	0.176	33	0.4	32	0.002	24	1.979	32	3.069	31
288			min	-450.377	34	-0.62	31	-1.458	30	-0.002	30	-7.217	30	-0.87	33
289		5	max	1451.857	28	0.176	33	0.4	32	0.002	24	2.638	32	4.092	31
290			min	-451.491	34	-0.62	31	-1.458	30	-0.002	30	-9.622	30	-1.161	33
291	M30	1	max	854.175	5	0.633	30	0.637	35	0	35	0	35	0	35
292			min	98.326	22	-0.275	32	-1.545	29	0	1	0	1	0	1
293		2	max	852.318	5	0.633	30	0.637	35	0	35	1.051	35	0.454	32
294			min	97.212	22	-0.275	32	-1.545	29	0	1	-2.548	29	-1.044	30
295		3	max	850.461	5	0.633	30	0.637	35	0	35	2.103	35	0.909	32
296			min	96.097	22	-0.275	32	-1.545	29	0	1	-5.097	29	-2.088	30
297		4	max	848.604	5	0.633	30	0.637	35	0	35	3.154	35	1.363	32
298			min	94.983	22	-0.275	32	-1.545	29	0	1	-7.645	29	-3.132	30
299		5	max	846.746	5	0.633	30	0.637	35	0	35	4.206	35	1.817	32
300			min	93.869	22	-0.275	32	-1.545	29	0	1	-10.194	29	-4.176	30
301	M31	1	max	36.014	33	1.381	24	30.929	5	0.019	32	0	35	0	35
302			min	-123.918	31	-1.359	34	4.125	33	-0.039	30	0	1	0	1
303		2	max	36.014	33	1.381	24	28.816	5	0.019	32	36.594	5	1.665	34
304			min	-123.918	31	-1.359	34	2.857	33	-0.039	30	4.276	33	-1.692	24
305		3	max	36.014	33	1.381	24	26.703	5	0.019	32	70.599	5	3.331	34
306			min	-123.918	31	-1.359	34	1.589	33	-0.039	30	7	33	-3.384	24
307		4	max	36.014	33	1.381	24	24.59	5	0.019	32	102.016	5	4.996	34
308			min	-123.918	31	-1.359	34	0.321	33	-0.039	30	8.17	33	-5.077	24
309		5	max	36.014	33	1.381	24	24.04	2	0.019	32	130.844	5	6.661	34
310			min	-123.918	31	-1.359	34	-1.572	25	-0.039	30	7.787	33	-6.769	24
311	M32	1	max	75.938	35	35.639	35	766.858	5	0.079	30	0	35	0	35
312			min	-94.001	25	-35.639	25	78.272	20	-0.059	32	0	1	0	1
313		2	max	75.938	35	17.827	35	383.58	5	0.079	30	719.213	5	33.426	33
314			min	-94.001	25	-17.827	25	39.144	20	-0.059	32	73.395	20	-33.426	27
315		3	max	75.938	35	0	35	0	35	0.079	30	958.951	5	44.568	33
316			min	-94.001	25	0	1	0	1	-0.059	32	97.86	20	-44.568	27
317		4	max	75.938	35	17.827	33	-39.144	35	0.079	30	719.213	5	33.426	33
318			min	-94.001	25	-17.827	27	-383.58	3	-0.059	32	73.395	20	-33.426	27
319		5	max	75.938	35	35.633	33	-78.266	35	0.079	30	0	35	0	35
320			min	-94.001	25	-35.633	27	-766.754	3	-0.059	32	0	1	0	1
321	M33	1	max	134.49	31	35.639	35	766.869	5	0.028	32	0	35	0	35
322			min	-69.236	33	-35.639	25	78.272	20	-0.049	30	0	1	0	1
323		2	max	134.49	31	17.828	35	383.592	5	0.028	32	719.235	5	33.427	33
324			min	-69.236	33	-17.828	25	39.145	20	-0.049	30	73.396	20	-33.427	27
325		3	max	134.49	31	0	35	0	35	0.028	32	958.98	5	44.569	33

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
326			min	-69.236	33	0	1	0	3	-0.049	30	97.862	20	-44.569	27
327		4	max	142.42	30	17.828	33	-39.145	35	0.028	32	719.235	5	33.427	33
328			min	-79.314	32	-17.828	27	-383.592	3	-0.049	30	73.396	20	-33.427	27
329		5	max	155.774	30	35.633	33	-78.266	35	0.028	32	0	35	0	35
330			min	-97.12	32	-35.633	27	-766.745	3	-0.049	30	0	1	0	1
331	M34	1	max	38.518	31	35.238	35	758.994	5	0.068	25	0	35	0	35
332			min	-26.03	33	-35.238	25	77.843	20	-0.027	31	0	1	0	1
333		2	max	38.518	31	17.701	35	381.095	5	0.068	25	712.765	5	33.097	33
334			min	-26.03	33	-17.701	25	39.009	20	-0.027	31	73.044	20	-33.097	27
335		3	max	38.518	31	0.059	35	1.16	5	0.068	25	951.903	5	44.209	33
336			min	-26.03	33	-0.059	25	0.063	20	-0.027	31	97.476	20	-44.209	27
337		4	max	43.535	30	17.675	33	-38.981	35	0.068	25	714.88	5	33.205	33
338			min	-32.58	32	-17.675	27	-380.596	3	-0.027	31	73.159	20	-33.205	27
339		5	max	56.876	30	35.464	33	-78.085	35	0.068	25	0	35	0	35
340			min	-50.369	32	-35.464	27	-763.429	3	-0.027	31	0	1	0	1
341	M35	1	max	12.096	25	1.405	24	30.941	5	0.043	27	0	35	0	35
342			min	-10.258	35	-1.301	34	4.125	32	-0.04	33	0	1	0	1
343		2	max	12.096	25	1.405	24	28.828	5	0.043	27	36.608	5	1.594	34
344			min	-10.258	35	-1.301	34	2.857	32	-0.04	33	4.277	32	-1.722	24
345		3	max	12.096	25	1.405	24	26.715	5	0.043	27	70.628	5	3.189	34
346			min	-10.258	35	-1.301	34	1.59	32	-0.04	33	7.001	32	-3.443	24
347		4	max	12.096	25	1.405	24	24.602	5	0.043	27	102.06	5	4.783	34
348			min	-10.258	35	-1.301	34	0.322	32	-0.04	33	8.171	32	-5.165	24
349		5	max	12.096	25	1.405	24	24.051	2	0.043	27	130.902	5	6.377	34
350			min	-10.258	35	-1.301	34	-1.571	24	-0.04	33	7.789	32	-6.887	24
351	M36	1	max	9.752	33	1.343	28	31.02	5	0.081	30	0	35	0	35
352			min	-17.1	31	-1.178	34	4.131	22	-0.064	32	0	1	0	1
353		2	max	9.752	33	1.343	28	28.907	5	0.081	30	36.705	5	1.443	34
354			min	-17.1	31	-1.178	34	2.863	22	-0.064	32	4.284	22	-1.645	28
355		3	max	9.752	33	1.343	28	26.794	5	0.081	30	70.821	5	2.886	34
356			min	-17.1	31	-1.178	34	1.595	22	-0.064	32	7.015	22	-3.29	28
357		4	max	9.752	33	1.343	28	24.68	5	0.081	30	102.349	5	4.329	34
358			min	-17.1	31	-1.178	34	0.328	22	-0.064	32	8.193	22	-4.935	28
359		5	max	9.752	33	1.343	28	24.122	2	0.081	30	131.289	5	5.772	34
360			min	-17.1	31	-1.178	34	-1.562	10	-0.064	32	7.818	22	-6.58	28
361	M37	1	max	1587.638	5	1.272	28	0.285	35	0	35	0	35	0	35
362			min	165.205	32	-1.157	34	-0.983	29	0	1	0	1	0	1
363		2	max	1585.781	5	1.272	28	0.285	35	0	35	0.47	35	1.909	34
364			min	164.091	32	-1.157	34	-0.983	29	0	1	-1.622	29	-2.099	28
365		3	max	1583.924	5	1.272	28	0.285	35	0	35	0.94	35	3.819	34
366			min	162.976	32	-1.157	34	-0.983	29	0	1	-3.243	29	-4.198	28
367		4	max	1582.066	5	1.272	28	0.285	35	0	35	1.41	35	5.728	34
368			min	161.862	32	-1.157	34	-0.983	29	0	1	-4.865	29	-6.296	28
369		5	max	1580.209	5	1.272	28	0.285	35	0	35	1.88	35	7.638	34
370			min	160.748	32	-1.157	34	-0.983	29	0	1	-6.487	29	-8.395	28
371	M38	1	max	15.059	29	1.346	24	30.92	5	0.061	30	0	35	0	35
372			min	-8.204	35	-1.316	34	4.129	35	-0.047	32	0	1	0	1
373		2	max	15.059	29	1.346	24	28.807	5	0.061	30	36.582	5	1.612	34
374			min	-8.204	35	-1.316	34	2.861	35	-0.047	32	4.282	35	-1.649	24
375		3	max	15.059	29	1.346	24	26.693	5	0.061	30	70.576	5	3.225	34
376			min	-8.204	35	-1.316	34	1.593	35	-0.047	32	7.01	35	-3.299	24
377		4	max	15.059	29	1.346	24	24.58	5	0.061	30	101.981	5	4.837	34
378			min	-8.204	35	-1.316	34	0.326	35	-0.047	32	8.186	35	-4.948	24
379		5	max	15.059	29	1.346	24	24.031	2	0.061	30	130.798	5	6.45	34
380			min	-8.204	35	-1.316	34	-1.568	27	-0.047	32	7.808	35	-6.598	24

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
381	M39	1	max	208.681	28	35.639	35	766.858	5	0.037	27	0	35	0	35
382			min	-144.435	34	-35.639	25	78.272	20	-0.035	33	0	1	0	1
383		2	max	195.322	28	17.827	35	383.58	5	0.037	27	719.213	5	33.426	33
384			min	-126.623	34	-17.827	25	39.144	20	-0.035	33	73.395	20	-33.426	27
385		3	max	181.952	28	0	35	0	35	0.037	27	958.951	5	44.568	33
386			min	-108.796	34	0	1	0	1	-0.035	33	97.86	20	-44.568	27
387		4	max	168.581	28	17.827	33	-39.144	35	0.037	27	719.213	5	33.426	33
388			min	-90.969	34	-17.827	27	-383.58	3	-0.035	33	73.395	20	-33.426	27
389		5	max	155.227	28	35.633	33	-78.266	35	0.037	27	0	35	0	35
390			min	-73.163	34	-35.633	27	-766.754	3	-0.035	33	0	1	0	1
391	M40	1	max	109.941	31	126.458	30	895.787	5	0.091	22	29.576	22	186.769	10
392			min	-84.639	33	-98.369	32	8.88	22	-0.525	16	-298.707	16	-185.477	8
393		2	max	109.932	31	126.453	30	895.57	5	0.091	22	29.797	22	184.297	10
394			min	-84.628	33	-98.361	32	8.844	22	-0.525	16	-276.418	16	-183.461	8
395		3	max	109.905	31	126.436	30	894.976	5	0.091	22	30.018	22	181.824	10
396			min	-84.592	33	-98.338	32	8.788	22	-0.525	16	-254.139	16	-181.444	8
397		4	max	109.858	31	126.406	30	893.988	5	0.091	22	30.236	22	179.352	10
398			min	-84.529	33	-98.298	32	8.711	22	-0.525	16	-231.879	16	-179.428	8
399		5	max	109.791	31	126.363	30	892.589	5	0.091	22	30.453	22	176.879	10
400			min	-84.44	33	-98.241	32	8.611	22	-0.525	16	-209.647	16	-177.412	8
401	M41	1	max	1071.824	30	0.595	28	0.346	34	0.001	35	0.006	30	0.003	32
402			min	-368.389	32	-0.389	34	-0.949	28	-0.003	29	-0.003	32	-0.004	30
403		2	max	1069.967	30	0.595	28	0.346	34	0.001	35	0.574	34	0.639	34
404			min	-369.503	32	-0.389	34	-0.949	28	-0.003	29	-1.566	28	-0.982	28
405		3	max	1068.11	30	0.595	28	0.346	34	0.001	35	1.144	34	1.28	34
406			min	-370.617	32	-0.389	34	-0.949	28	-0.003	29	-3.132	28	-1.964	28
407		4	max	1066.253	30	0.595	28	0.346	34	0.001	35	1.714	34	1.922	34
408			min	-371.732	32	-0.389	34	-0.949	28	-0.003	29	-4.699	28	-2.946	28
409		5	max	1064.395	30	0.595	28	0.346	34	0.001	35	2.284	34	2.563	34
410			min	-372.846	32	-0.389	34	-0.949	28	-0.003	29	-6.265	28	-3.928	28
411	M42	1	max	1584.702	5	1.622	24	0.318	35	0	35	0	35	0	35
412			min	168.138	34	-1.579	34	-1.053	29	0	1	0	1	0	1
413		2	max	1582.845	5	1.622	24	0.318	35	0	35	0.524	35	2.605	34
414			min	167.023	34	-1.579	34	-1.053	29	0	1	-1.737	29	-2.676	24
415		3	max	1580.987	5	1.622	24	0.318	35	0	35	1.048	35	5.21	34
416			min	165.909	34	-1.579	34	-1.053	29	0	1	-3.474	29	-5.351	24
417		4	max	1579.13	5	1.622	24	0.318	35	0	35	1.573	35	7.815	34
418			min	164.795	34	-1.579	34	-1.053	29	0	1	-5.211	29	-8.027	24
419		5	max	1577.273	5	1.622	24	0.318	35	0	35	2.097	35	10.42	34
420			min	163.68	34	-1.579	34	-1.053	29	0	1	-6.948	29	-10.703	24
421	M43	1	max	74.356	22	232.269	18	12.529	35	1.066	20	0	35	0	35
422			min	-283.426	16	-13.83	20	-12.774	25	-2.41	18	0	1	0	1
423		2	max	70.835	22	229.306	18	12.529	35	1.066	20	4.061	35	4.03	20
424			min	-280.067	16	-11.04	20	-12.774	25	-2.41	18	-4.14	25	-74.798	18
425		3	max	67.314	22	226.344	18	12.529	35	1.066	20	8.121	35	7.156	20
426			min	-276.709	16	-8.25	20	-12.774	25	-2.41	18	-8.28	25	-148.635	18
427		4	max	63.792	22	223.381	18	12.529	35	1.066	20	12.182	35	9.377	20
428			min	-273.35	16	-5.459	20	-12.774	25	-2.41	18	-12.42	25	-221.512	18
429		5	max	60.271	22	220.429	5	12.529	35	1.066	20	16.242	35	10.695	20
430			min	-269.991	16	-2.669	20	-12.774	25	-2.41	18	-16.56	25	-293.429	18
431	M44	1	max	81.085	22	123.962	18	12.753	27	2.283	18	0	35	0	35
432			min	-200.614	16	-19.043	20	-12.559	33	-1.094	20	0	1	0	1
433		2	max	77.563	22	120.999	18	12.753	27	2.283	18	4.133	27	5.72	20
434			min	-197.255	16	-16.253	20	-12.559	33	-1.094	20	-4.07	33	-39.696	18
435		3	max	74.042	22	118.037	18	12.753	27	2.283	18	8.266	27	10.535	20

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
436			min	-193.896	16	-13.463	20	-12.559	33	-1.094	20	-8.141	33	-78.431	18
437		4	max	70.521	22	115.074	18	12.753	27	2.283	18	12.399	27	14.446	20
438			min	-190.538	16	-10.673	20	-12.559	33	-1.094	20	-12.211	33	-116.207	18
439		5	max	67	22	112.112	18	12.753	27	2.283	18	16.533	27	17.453	20
440			min	-187.179	16	-7.883	20	-12.559	33	-1.094	20	-16.282	33	-153.022	18
441	M45	1	max	67.776	22	143.13	18	14.105	35	-0.045	35	3.472	5	10.688	20
442			min	-207.206	16	-12.33	20	-17.531	29	-1.777	3	-0.184	33	-293.471	18
443		2	max	74.043	10	6.326	22	1.731	33	-0.045	35	1.765	31	17.06	20
444			min	-70.822	20	-65.891	16	-7.4	31	-1.777	3	-0.676	33	-290.789	18
445		3	max	70.701	10	2.763	22	1.731	33	-0.045	35	0.4	23	23.176	20
446			min	-66.68	20	-64.088	16	-7.4	31	-1.777	3	-1.029	17	-275.537	18
447		4	max	67.359	10	-0.801	22	3.082	21	-0.045	35	0.45	33	28.367	20
448			min	-62.537	20	-62.285	16	-8.636	19	-1.777	3	-3.052	31	-259.308	18
449		5	max	64.017	10	-3.935	34	5.035	21	-0.045	35	1.525	21	32.633	20
450			min	-58.395	20	-60.685	28	-10.101	19	-1.777	3	-5.99	19	-242.102	18
451	M46	1	max	74.547	22	35.016	18	8.013	19	1.485	5	1.097	35	17.46	20
452			min	-123.667	16	-18.627	8	-1.712	21	0.026	33	-4.069	29	-152.981	18
453		2	max	71.005	22	32.013	18	7.278	29	1.485	5	0.586	35	22.706	20
454			min	-120.285	16	-16.024	8	-1.567	35	0.026	33	-1.734	17	-163.889	18
455		3	max	67.463	22	29.011	18	7.278	29	1.485	5	1.028	19	27.026	20
456			min	-116.903	16	-13.42	8	-1.567	35	0.026	33	-0.4	21	-173.821	18
457		4	max	63.921	22	27.113	2	8.647	17	1.485	5	3.038	29	30.422	20
458			min	-113.521	16	-10.884	24	-3.093	23	0.026	33	-0.434	35	-182.775	18
459		5	max	60.379	22	27.113	2	10.112	17	1.485	5	5.995	17	32.891	20
460			min	-110.139	16	-11.484	24	-5.046	23	0.026	33	-1.532	23	-190.752	18
461	M47	1	max	193.136	18	-18.733	35	24.938	25	-0.119	23	15.374	35	32.898	20
462			min	-48.131	20	-240.48	3	-23.678	35	-2.45	3	-16.48	29	-190.686	18
463		2	max	190.755	18	-19.093	35	24.938	25	-0.119	23	7.667	35	40.657	20
464			min	-43.989	20	-241.08	3	-23.678	35	-2.45	3	-8.734	29	-116.929	18
465		3	max	188.374	18	-19.453	35	24.938	25	-0.119	23	0.379	23	52.103	8
466			min	-39.846	20	-241.68	3	-23.678	35	-2.45	3	-1.301	17	-42.194	18
467		4	max	185.992	18	-16.729	20	24.938	25	-0.119	23	8.007	25	94.237	16
468			min	-35.704	20	-242.28	3	-23.678	35	-2.45	3	-7.747	35	-25.042	22
469		5	max	183.611	18	-13.886	20	24.938	25	-0.119	23	16.124	25	167.157	16
470			min	-31.562	20	-242.88	3	-23.678	35	-2.45	3	-15.455	35	-14.816	22
471	M48	1	max	261.869	18	-22.362	32	23.735	33	2.096	5	16.442	31	32.625	20
472			min	-42.476	20	-323.215	3	-24.886	27	0.093	21	-15.411	33	-242.168	18
473		2	max	259.488	18	-22.722	32	23.735	33	2.096	5	8.714	31	42.18	20
474			min	-38.333	20	-323.815	3	-24.886	27	0.093	21	-7.685	33	-143.126	18
475		3	max	257.107	18	-23.082	32	23.735	33	2.096	5	1.3	19	56.56	8
476			min	-34.191	20	-324.415	3	-24.886	27	0.093	21	-0.379	21	-43.107	18
477		4	max	254.725	18	-22.246	20	23.735	33	2.096	5	7.766	33	121.527	16
478			min	-30.048	20	-325.015	3	-24.886	27	0.093	21	-7.991	27	-23.483	22
479		5	max	252.344	18	-19.403	20	23.735	33	2.096	5	15.492	33	219.99	16
480			min	-25.906	20	-325.615	3	-24.886	27	0.093	21	-16.091	27	-11.785	22
481	M49	1	max	187.064	18	-18.724	20	26.836	29	3.742	5	15.143	35	167.225	16
482			min	-27.465	20	-254.085	3	-23.471	35	0.118	35	-16.068	25	-14.812	22
483		2	max	184.721	18	-16.04	20	26.836	29	3.742	5	7.601	35	242.04	16
484			min	-23.405	20	-254.685	3	-23.471	35	0.118	35	-7.94	25	-1.57	22
485		3	max	182.379	18	-13.357	20	26.836	29	3.742	5	1.906	19	316.314	16
486			min	-19.345	20	-255.285	3	-23.471	35	0.118	35	-0.301	21	12.766	22
487		4	max	180.036	18	-10.673	20	26.836	29	3.742	5	10.261	29	391.461	5
488			min	-15.285	20	-257.411	18	-23.471	35	0.118	35	-7.482	35	28.196	22
489		5	max	177.694	18	-7.989	20	26.836	29	3.742	5	18.884	29	473.781	5
490			min	-11.224	20	-260.294	18	-23.471	35	0.118	35	-15.024	35	43.378	35

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
491	M50	1	max	254.559	18	-24.333	20	23.544	33	-0.138	33	16.03	27	219.922	16
492			min	-21.898	20	-337.929	3	-26.777	31	-4.033	3	-15.19	33	-11.788	22
493		2	max	252.216	18	-21.649	20	23.544	33	-0.138	33	7.921	27	320.299	16
494			min	-17.838	20	-338.529	3	-26.777	31	-4.033	3	-7.625	33	2.918	22
495		3	max	249.873	18	-18.965	20	23.544	33	-0.138	33	0.301	23	420.135	16
496			min	-13.778	20	-339.129	3	-26.777	31	-4.033	3	-1.907	17	18.719	22
497		4	max	247.531	18	-16.281	20	23.544	33	-0.138	33	7.506	33	526.246	5
498			min	-9.717	20	-339.729	3	-26.777	31	-4.033	3	-10.243	31	35.613	22
499		5	max	245.188	18	-13.598	20	23.544	33	-0.138	33	15.071	33	635.507	5
500			min	-5.657	20	-340.329	3	-26.777	31	-4.033	3	-18.847	31	53.601	22
501	M51	1	max	41.605	22	97.303	18	24.813	19	-0.158	33	11.425	21	159.924	28
502			min	-164.798	16	-9.256	20	-20.529	21	-4.005	3	-16.691	31	16.67	34
503		2	max	38.147	22	94.46	18	23.534	31	-0.158	33	5.559	33	139.205	16
504			min	-161.51	16	-6.625	20	-18.609	21	-4.005	3	-9.161	31	6.24	22
505		3	max	34.69	22	91.616	18	23.534	31	-0.158	33	0.298	23	118.818	16
506			min	-158.223	16	-3.994	20	-17.583	33	-4.005	3	-1.9	17	-4.576	22
507		4	max	31.233	22	88.773	18	23.534	31	-0.158	33	6.03	27	97.905	16
508			min	-154.935	16	-1.363	20	-17.583	33	-4.005	3	-5.693	33	-14.321	22
509		5	max	27.776	22	85.93	18	23.534	31	-0.158	33	13.429	31	76.465	16
510			min	-151.647	16	1.268	20	-17.583	33	-4.005	3	-11.319	33	-22.993	22
511	M52	1	max	39.959	22	100.459	18	20.539	23	3.846	5	16.671	29	252.245	5
512			min	-182.028	16	-8.951	20	-24.813	17	0.147	35	-11.431	23	23.232	22
513		2	max	36.502	22	97.616	18	18.619	23	3.846	5	9.151	29	227.2	16
514			min	-178.741	16	-6.32	20	-23.503	29	0.147	35	-5.572	35	11.28	22
515		3	max	33.045	22	94.772	18	17.625	35	3.846	5	1.9	19	205.774	16
516			min	-175.453	16	-3.689	20	-23.503	29	0.147	35	-0.298	21	0.401	22
517		4	max	29.588	22	91.929	18	17.625	35	3.846	5	5.706	35	183.822	16
518			min	-172.165	16	-1.058	20	-23.503	29	0.147	35	-6.009	25	-9.407	22
519		5	max	26.131	22	89.086	18	17.625	35	3.846	5	11.345	35	161.344	16
520			min	-168.877	16	1.573	20	-23.503	29	0.147	35	-13.409	29	-18.142	22
521	M53	1	max	31.629	22	75.379	18	18.705	27	0.019	23	11.752	33	76.487	16
522			min	-145.72	16	-5.283	20	-18.052	33	-0.046	17	-12.177	27	-22.992	22
523		2	max	28.087	22	72.376	18	18.705	27	0.019	23	5.876	33	58.009	16
524			min	-142.338	16	-2.44	20	-18.052	33	-0.046	17	-6.089	27	-29.161	22
525		3	max	24.545	22	69.374	18	18.705	27	0.019	23	0.435	23	44.352	8
526			min	-138.956	16	0.403	20	-18.052	33	-0.046	17	-0.435	9	-34.171	22
527		4	max	21.003	22	67.342	5	18.705	27	0.019	23	6.088	27	42.276	8
528			min	-135.574	16	3.247	20	-18.052	33	-0.046	17	-5.876	33	-41.455	18
529		5	max	17.461	22	66.742	5	18.705	27	0.019	23	12.177	27	39.604	20
530			min	-132.192	16	4.227	32	-18.052	33	-0.046	17	-11.751	33	-62.569	18
531	M54	1	max	29.98	22	78.12	18	18.115	35	0.02	23	12.123	25	161.322	16
532			min	-163.009	16	-5.013	20	-18.622	25	-0.039	17	-11.793	35	-18.143	22
533		2	max	26.438	22	75.118	18	18.115	35	0.02	23	6.062	25	141.921	16
534			min	-159.627	16	-2.17	20	-18.622	25	-0.039	17	-5.896	35	-24.365	22
535		3	max	22.896	22	72.115	18	18.115	35	0.02	23	0.435	11	121.933	16
536			min	-156.245	16	0.674	20	-18.622	25	-0.039	17	-0.435	21	-29.427	22
537		4	max	19.354	22	70.291	5	18.115	35	0.02	23	5.896	35	101.359	16
538			min	-152.863	16	3.517	20	-18.622	25	-0.039	17	-6.061	25	-33.328	22
539		5	max	15.812	22	69.691	5	18.115	35	0.02	23	11.793	35	80.197	16
540			min	-149.481	16	4.417	32	-18.622	25	-0.039	17	-12.122	25	-36.07	22
541	M55	1	max	31.652	35	57.985	5	22.495	31	3.329	5	11.593	33	39.605	20
542			min	-133.558	29	-1.041	32	-17.733	33	0.115	33	-13.2	31	-62.568	18
543		2	max	31.952	35	57.385	5	22.495	31	3.329	5	5.821	33	38.874	20
544			min	-133.058	29	-2.352	22	-17.733	33	0.115	33	-6.146	27	-79.855	18
545		3	max	32.252	35	57.927	16	22.495	31	3.329	5	1.748	19	37.217	20

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
546			min	-132.558	29	-5.915	22	-17.733	33	0.115	33	-0.359	21	-96.164	18
547		4	max	32.553	35	59.73	16	22.495	31	3.329	5	8.765	31	34.635	20
548			min	-132.057	29	-9.519	10	-17.733	33	0.115	33	-5.723	33	-111.495	18
549		5	max	32.853	35	61.532	16	22.495	31	3.329	5	16.087	31	31.128	20
550			min	-131.557	29	-13.322	10	-17.733	33	0.115	33	-11.495	33	-125.85	18
551	M56	1	max	26.216	33	60.886	5	17.801	35	-0.11	35	13.184	29	80.196	16
552			min	-148.082	31	-0.853	32	-22.469	29	-3.285	3	-11.636	35	-36.071	22
553		2	max	26.516	33	60.286	5	17.801	35	-0.11	35	6.12	25	61.314	16
554			min	-147.582	31	-2.193	22	-22.469	29	-3.285	3	-5.842	35	-35.937	22
555		3	max	26.816	33	60.715	16	17.801	35	-0.11	35	0.359	23	47.649	8
556			min	-147.082	31	-5.757	22	-22.469	29	-3.285	3	-1.746	17	-34.643	22
557		4	max	27.116	33	62.518	16	17.801	35	-0.11	35	5.746	35	44.908	8
558			min	-146.581	31	-9.32	22	-22.469	29	-3.285	3	-8.756	29	-35.116	18
559		5	max	27.416	33	64.32	16	17.801	35	-0.11	35	11.54	35	41.32	8
560			min	-146.081	31	-13.023	10	-22.469	29	-3.285	3	-16.07	29	-50.348	18
561	M57	1	max	221.243	31	-12.965	20	14.753	29	0.113	29	17.289	35	31.126	20
562			min	-20.508	33	-318.059	3	-13.034	35	-0.091	35	-19.391	29	-125.868	18
563		2	max	221.743	31	-10.122	20	14.753	29	0.113	29	13.047	35	39.961	8
564			min	-20.208	33	-318.659	3	-13.034	35	-0.091	35	-14.588	29	-24.363	18
565		3	max	222.244	31	-7.278	20	14.753	29	0.113	29	8.804	35	112.101	16
566			min	-19.908	33	-319.259	3	-13.034	35	-0.091	35	-9.786	29	-5.815	22
567		4	max	222.744	31	-4.435	20	14.753	29	0.113	29	4.562	35	205.464	16
568			min	-19.608	33	-319.859	3	-13.034	35	-0.091	35	-4.984	29	9.522	22
569		5	max	314.99	31	-7.955	20	23.695	25	0.113	29	0.312	25	315.246	5
570			min	-14.002	33	-437.128	3	-23.059	35	-0.091	35	-0.307	35	25.889	35
571	M58	1	max	200.433	29	-12.667	20	13.703	33	0.174	29	19.645	31	41.323	8
572			min	-18.326	35	-314.441	3	-15.307	31	-0.087	35	-17.54	33	-50.33	18
573		2	max	200.933	29	-9.824	20	13.703	33	0.174	29	14.663	31	94.578	16
574			min	-18.025	35	-315.041	3	-15.307	31	-0.087	35	-13.079	33	-15.62	22
575		3	max	201.433	29	-6.98	20	13.703	33	0.174	29	9.681	31	187.405	16
576			min	-17.725	35	-315.641	3	-15.307	31	-0.087	35	-8.619	33	-1.505	22
577		4	max	201.933	29	-4.137	20	13.703	33	0.174	29	4.699	31	281.231	5
578			min	-17.425	35	-316.241	3	-15.307	31	-0.087	35	-4.159	33	13.769	22
579		5	max	202.434	29	-1.293	20	13.703	33	0.174	29	0.302	33	384.263	5
580			min	-17.125	35	-318.978	18	-15.307	31	-0.087	35	-0.308	27	30.203	22
581	M59	1	max	16.305	29	6.01	25	-7.106	33	0.049	31	10.143	27	11.369	33
582			min	-13.937	35	-5.993	27	-105.241	3	-0.004	33	-9.116	33	-12.538	31
583		2	max	14.019	29	6.01	25	-1.157	33	0.049	31	-4.003	35	5.372	33
584			min	-10.89	35	-5.993	27	-54.495	31	-0.004	33	-76.629	3	-7.819	31
585		3	max	11.687	29	6.01	25	4.843	33	0.049	31	-10.684	22	3.494	32
586			min	-7.78	35	-5.993	27	-4.916	27	-0.004	33	-104.041	3	-6.182	30
587		4	max	9.274	29	6.01	25	55.064	29	0.049	31	-3.502	33	6.149	35
588			min	-4.563	35	-5.993	27	1.203	35	-0.004	33	-76.629	31	-8.461	29
589		5	max	7.034	29	6.01	25	104.914	5	0.049	31	10.636	25	12.128	35
590			min	-1.576	35	-5.993	27	7.102	35	-0.004	33	-9.575	35	-13.226	29
591	M60	1	max	22.037	25	13.861	26	-19.402	35	0.073	31	16.846	29	12.694	35
592			min	-21.752	35	-13.861	32	-341.449	3	-0.002	33	-10.257	35	-14.452	29
593		2	max	11.147	25	6.931	26	-6.972	35	0.073	31	-12.552	33	9.946	32
594			min	-10.863	35	-6.931	32	-170.732	3	-0.002	33	-247.086	3	-12.199	30
595		3	max	0.257	25	6.578	35	5.458	35	0.073	31	-24.2	35	13.412	32
596			min	-1.417	31	-6.593	33	-5.472	33	-0.002	33	-332.46	3	-14.804	30
597		4	max	10.917	27	6.929	24	170.701	5	0.073	31	-12.527	35	9.948	32
598			min	-10.646	33	-6.929	34	6.958	33	-0.002	33	-247.117	3	-12.211	30
599		5	max	21.807	27	13.859	24	341.418	5	0.073	31	16.808	31	12.779	33
600			min	-21.535	33	-13.859	34	19.388	33	-0.002	33	-10.322	33	-14.504	31

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
601	M61	1	max	3.22	5	12.084	27	2.985	35	0.072	31	19.906	25	23.5	35
602			min	0.078	33	-12.114	25	-21.307	25	-0.001	33	-19.595	35	-27.033	29
603		2	max	3.22	5	12.084	27	6.415	35	0.072	31	4.821	33	11.427	35
604			min	0.078	33	-12.114	25	-15.59	25	-0.001	33	-18.272	27	-17.544	29
605		3	max	3.22	5	12.084	27	9.855	27	0.072	31	-1.151	2	-0.644	34
606			min	0.078	33	-12.114	25	-9.873	25	-0.001	33	-12.426	3	-8.519	3
607		4	max	3.22	5	12.084	27	15.572	27	0.072	31	4.794	35	11.461	33
608			min	0.078	33	-12.114	25	-6.44	33	-0.001	33	-18.29	25	-17.494	31
609		5	max	3.22	5	12.084	27	21.288	27	0.072	31	19.868	27	23.569	33
610			min	0.078	33	-12.114	25	-3.01	33	-0.001	33	-19.645	33	-26.934	31
611	M62	1	max	46.965	25	23.066	26	-36.756	35	0.045	5	14.977	5	4.331	35
612			min	-44.246	35	-23.046	32	-560.446	3	0	33	0.865	35	-8.694	29
613		2	max	28.846	25	11.536	26	-18.352	35	0.045	5	-26.565	33	16.774	32
614			min	-26.128	35	-11.516	32	-280.202	3	0	33	-405.348	3	-18.849	30
615		3	max	24.551	16	2.426	35	0.07	31	0.045	5	-35.834	32	22.525	32
616			min	-19.997	22	-2.459	33	-0.078	25	0	33	-545.428	3	-23.913	26
617		4	max	24.551	16	11.549	24	280.286	5	0.045	5	-26.585	35	16.745	32
618			min	-19.997	22	-11.529	34	18.332	33	0	33	-405.264	3	-18.769	30
619		5	max	28.931	27	23.08	24	560.53	5	0.045	5	15.144	5	4.398	33
620			min	-26.209	33	-23.059	34	36.736	33	0	33	0.825	33	-8.501	31
621	M63	1	max	-0.43	34	9.149	25	0.554	33	0.023	31	15.109	27	17.77	33
622			min	-7.996	3	-9.189	27	-18.893	27	0	33	-14.714	33	-20.859	31
623		2	max	-0.43	34	9.149	25	3.984	33	0.023	31	2.402	35	8.645	33
624			min	-7.996	3	-9.189	27	-13.176	27	0	33	-15.821	25	-13.022	31
625		3	max	-0.43	34	9.149	25	7.435	25	0.023	31	-0.828	2	-0.479	20
626			min	-7.996	3	-9.189	27	-7.46	27	0	33	-12.072	3	-5.477	3
627		4	max	-0.43	34	9.149	25	13.151	25	0.023	31	2.382	33	8.673	35
628			min	-7.996	3	-9.189	27	-4.003	35	0	33	-15.845	27	-12.977	29
629		5	max	-0.43	34	9.149	25	18.868	25	0.023	31	15.058	25	17.827	35
630			min	-7.996	3	-9.189	27	-0.573	35	0	33	-14.752	35	-20.769	29
631	M64	1	max	6.896	5	9.17	25	0.725	33	0.002	31	15.487	27	17.857	33
632			min	0.314	35	-9.216	27	-19.066	27	0	33	-15.036	33	-20.202	31
633		2	max	6.896	5	9.17	25	4.155	33	0.002	31	2.596	35	8.707	33
634			min	0.314	35	-9.216	27	-13.349	27	0	33	-15.956	25	-12.363	31
635		3	max	6.896	5	9.17	25	7.602	25	0.002	31	-0.548	2	-0.441	35
636			min	0.314	35	-9.216	27	-7.633	27	0	33	-11.76	3	-4.778	3
637		4	max	6.896	5	9.17	25	13.319	25	0.002	31	2.572	33	8.743	35
638			min	0.314	35	-9.216	27	-4.178	35	0	33	-15.986	27	-12.321	29
639		5	max	6.896	5	9.17	25	19.036	25	0.002	31	15.426	25	17.928	35
640			min	0.314	35	-9.216	27	-0.748	35	0	33	-15.083	35	-20.115	29
641	M65	1	max	31.205	33	19.947	34	-30.366	23	0	33	12.758	17	5.43	23
642			min	-30.71	27	-19.95	24	-486.371	3	-0.019	3	-4.168	23	-10.578	17
643		2	max	15.394	33	9.885	34	-13.869	23	0	33	-21.514	21	14.452	32
644			min	-14.899	27	-9.888	24	-241.092	3	-0.019	3	-354.729	3	-17.069	30
645		3	max	0.636	35	2.958	11	2.314	23	0	33	-31.846	35	19.316	32
646			min	-3.798	29	-2.961	9	-3.379	17	-0.019	3	-473.373	3	-20.702	30
647		4	max	16.295	35	9.898	32	241.412	5	0	33	-21.468	23	14.421	32
648			min	-15.835	25	-9.901	26	13.889	21	-0.019	3	-353.93	3	-17.015	30
649		5	max	32.03	35	19.911	32	485.541	5	0	33	12.821	19	5.43	21
650			min	-31.57	25	-19.914	26	30.323	21	-0.019	3	-4.16	21	-10.519	19
651	M66	1	max	1314.084	5	0	35	0	35	0	35	0	35	0	35
652			min	74.693	20	0	1	0	1	0	1	0	1	0	1
653		2	max	1313.155	5	0	35	0	35	0	35	0	35	0	35
654			min	74.136	20	0	1	0	1	0	1	0	1	0	1
655		3	max	1312.227	5	0	35	0	35	0	35	0	35	0	35

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
656			min	73.579	20	0	1	0	1	0	1	0	1	0	1
657		4	max	1311.298	5	0	35	0	35	0	35	0	35	0	35
658			min	73.022	20	0	1	0	1	0	1	0	1	0	1
659		5	max	1310.37	5	0	35	0	35	0	35	0	35	0	35
660			min	72.464	20	0	1	0	1	0	1	0	1	0	1
661	M67	1	max	1168.103	5	0	35	0	35	0	35	0	35	0	35
662			min	64.071	20	0	1	0	1	0	1	0	1	0	1
663		2	max	1167.174	5	0	35	0	35	0	35	0	35	0	35
664			min	63.513	20	0	1	0	1	0	1	0	1	0	1
665		3	max	1166.246	5	0	35	0	35	0	35	0	35	0	35
666			min	62.956	20	0	1	0	1	0	1	0	1	0	1
667		4	max	1165.317	5	0	35	0	35	0	35	0	35	0	35
668			min	62.399	20	0	1	0	1	0	1	0	1	0	1
669		5	max	1164.388	5	0	35	0	35	0	35	0	35	0	35
670			min	61.842	20	0	1	0	1	0	1	0	1	0	1
671	M68	1	max	44.654	31	20.322	16	43.514	10	0.387	28	178.515	16	112.244	8
672			min	-37.449	33	-19.188	10	-73.753	16	-0.114	34	-39.296	22	-111.484	10
673		2	max	44.654	31	28.442	8	27.862	22	0.387	28	115.683	16	94.287	8
674			min	-37.449	33	-28.188	10	-93.797	16	-0.114	34	-13.89	22	-93.718	10
675		3	max	44.654	31	37.442	8	15.836	22	0.387	28	37.819	16	69.581	8
676			min	-37.449	33	-37.188	10	-113.841	16	-0.114	34	2.497	22	-69.202	10
677		4	max	44.654	31	46.442	8	3.809	22	0.387	28	9.863	22	38.125	8
678			min	-37.449	33	-46.188	10	-133.884	16	-0.114	34	-55.078	16	-37.936	10
679		5	max	44.654	31	55.442	8	-8.217	22	0.387	28	8.211	22	0.08	22
680			min	-37.449	33	-55.188	10	-153.928	16	-0.114	34	-163.008	16	-0.081	8
681	M69	1	max	36.5	32	33.729	33	-38.725	35	0.036	30	0	35	0	35
682			min	-45.273	30	-33.729	27	-666.838	3	-0.028	32	0	1	0	1
683		2	max	19.782	32	17.01	33	-19.519	35	0.036	30	-36.287	35	31.604	35
684			min	-32.734	30	-17.01	27	-336.28	3	-0.028	32	-624.839	3	-31.604	25
685		3	max	6.94	22	0.263	35	5.173	5	0.036	30	-48.264	35	42.028	35
686			min	-23.813	16	-0.263	25	0.282	20	-0.028	32	-830.931	3	-42.028	25
687		4	max	9.772	34	16.728	35	330.747	5	0.036	30	-36.055	35	31.387	35
688			min	-25.719	28	-16.728	25	19.217	20	-0.028	32	-620.581	3	-31.387	25
689		5	max	26.643	34	33.599	35	664.3	5	0.036	30	0	35	0	35
690			min	-38.373	28	-33.599	25	38.587	20	-0.028	32	0	1	0	1
691	M70	1	max	34.877	32	33.73	33	-38.727	35	0.014	32	0	35	0	35
692			min	-62.838	16	-33.73	27	-666.865	3	-0.025	30	0	1	0	1
693		2	max	34.607	22	17.012	33	-19.52	35	0.014	32	-36.29	35	31.606	35
694			min	-62.838	16	-17.012	27	-336.312	3	-0.025	30	-624.879	3	-31.606	25
695		3	max	34.607	22	0.264	35	5.19	5	0.014	32	-48.266	35	42.03	35
696			min	-62.838	16	-0.264	25	0.283	20	-0.025	30	-830.975	3	-42.03	25
697		4	max	34.607	22	16.73	35	330.776	5	0.014	32	-36.054	35	31.386	35
698			min	-62.838	16	-16.73	25	19.218	20	-0.025	30	-620.558	3	-31.386	25
699		5	max	34.607	22	33.598	35	664.27	5	0.014	32	0	35	0	35
700			min	-62.838	16	-33.598	25	38.585	20	-0.025	30	0	1	0	1
701	M71	1	max	70.176	22	33.897	33	-38.906	35	0.359	18	0	35	0	35
702			min	-112.686	16	-33.897	27	-670.147	3	-0.018	20	0	1	0	1
703		2	max	70.176	22	17.166	33	-19.686	35	0.359	18	-36.432	35	31.739	35
704			min	-112.686	16	-17.166	27	-339.353	3	-0.018	20	-627.488	3	-31.739	25
705		3	max	70.176	22	0.184	33	-0.197	35	0.359	18	-48.892	35	42.613	35
706			min	-112.686	16	-0.184	27	-3.613	3	-0.018	20	-842.439	3	-42.613	25
707		4	max	70.176	22	17.264	35	341.266	5	0.359	18	-36.651	35	31.944	35
708			min	-112.686	16	-17.264	25	19.791	20	-0.018	20	-631.512	3	-31.944	25
709		5	max	70.176	22	34.001	35	672.18	5	0.359	18	0	35	0	35
710			min	-112.686	16	-34.001	25	39.017	20	-0.018	20	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
711	M72	1	max	37.944	32	33.722	33	-38.718	35	0.022	27	0	35	0	35
712			min	-42.942	30	-33.722	27	-666.699	3	-0.02	33	0	1	0	1
713		2	max	21.345	20	17.008	33	-19.517	35	0.022	27	-36.295	35	31.611	35
714			min	-30.407	30	-17.008	27	-336.246	3	-0.02	33	-624.975	3	-31.611	25
715		3	max	21.345	20	0.26	35	5.103	5	0.022	27	-48.273	35	42.036	35
716			min	-30.296	18	-0.26	25	0.278	20	-0.02	33	-831.098	3	-42.036	25
717		4	max	21.345	20	16.732	35	330.812	5	0.022	27	-36.063	35	31.395	35
718			min	-30.296	18	-16.732	25	19.22	20	-0.02	33	-620.721	3	-31.395	25
719		5	max	26	34	33.606	35	664.438	5	0.022	27	0	35	0	35
720			min	-34.166	28	-33.606	25	38.594	20	-0.02	33	0	1	0	1
721	M73	1	max	15.831	35	66.611	34	-78.238	35	0.019	32	130.861	5	6.661	34
722			min	-108.362	29	-67.687	24	-1308.523	3	-0.039	30	7.829	35	-6.769	24
723		2	max	15.831	35	66.611	34	-78.264	35	0.019	32	98.147	5	4.996	34
724			min	-108.362	29	-67.687	24	-1308.566	3	-0.039	30	5.873	35	-5.077	24
725		3	max	15.831	35	66.611	34	-78.29	35	0.019	32	65.433	5	3.331	34
726			min	-108.362	29	-67.687	24	-1308.609	3	-0.039	30	3.916	35	-3.384	24
727		4	max	15.831	35	66.611	34	-78.316	35	0.019	32	32.717	5	1.665	34
728			min	-108.362	29	-67.687	24	-1308.652	3	-0.039	30	1.958	35	-1.692	24
729		5	max	15.831	35	66.611	34	-78.342	35	0.019	32	0	35	0	35
730			min	-108.362	29	-67.687	24	-1308.695	3	-0.039	30	0	1	0	1
731	M74	1	max	57.526	27	63.773	34	-78.241	34	0.043	27	130.873	5	6.377	34
732			min	-55.692	33	-68.869	24	-1308.641	3	-0.04	33	7.829	34	-6.887	24
733		2	max	57.526	27	63.773	34	-78.267	34	0.043	27	98.156	5	4.783	34
734			min	-55.692	33	-68.869	24	-1308.684	3	-0.04	33	5.873	34	-5.165	24
735		3	max	57.526	27	63.773	34	-78.293	34	0.043	27	65.438	5	3.189	34
736			min	-55.692	33	-68.869	24	-1308.727	3	-0.04	33	3.916	34	-3.443	24
737		4	max	57.526	27	63.773	34	-78.319	34	0.043	27	32.72	5	1.594	34
738			min	-55.692	33	-68.869	24	-1308.77	3	-0.04	33	1.958	34	-1.722	24
739		5	max	57.526	27	63.773	34	-78.345	34	0.043	27	0	35	0	35
740			min	-55.692	33	-68.869	24	-1308.813	3	-0.04	33	0	1	0	1
741	M75	1	max	56.561	35	57.72	34	-78.67	32	0.081	30	131.656	5	5.772	34
742			min	-58.45	25	-65.804	28	-1316.478	3	-0.064	32	7.872	32	-6.58	28
743		2	max	56.561	35	57.72	34	-78.696	32	0.081	30	98.744	5	4.329	34
744			min	-58.45	25	-65.804	28	-1316.521	3	-0.064	32	5.905	32	-4.935	28
745		3	max	56.561	35	57.72	34	-78.722	32	0.081	30	65.83	5	2.886	34
746			min	-58.45	25	-65.804	28	-1316.564	3	-0.064	32	3.937	32	-3.29	28
747		4	max	56.561	35	57.72	34	-78.748	32	0.081	30	32.916	5	1.443	34
748			min	-58.45	25	-65.804	28	-1316.608	3	-0.064	32	1.969	32	-1.645	28
749		5	max	56.561	35	57.72	34	-78.774	32	0.081	30	0	35	0	35
750			min	-58.45	25	-65.804	28	-1316.651	3	-0.064	32	0	1	0	1
751	M76	1	max	59.871	27	64.495	34	-78.201	33	0.061	30	130.796	5	6.45	34
752			min	-56.706	33	-65.976	24	-1307.871	3	-0.047	32	7.825	33	-6.598	24
753		2	max	59.871	27	64.495	34	-78.227	33	0.061	30	98.098	5	4.837	34
754			min	-56.706	33	-65.976	24	-1307.914	3	-0.047	32	5.87	33	-4.948	24
755		3	max	59.871	27	64.495	34	-78.252	33	0.061	30	65.4	5	3.225	34
756			min	-56.706	33	-65.976	24	-1307.957	3	-0.047	32	3.914	33	-3.299	24
757		4	max	59.871	27	64.495	34	-78.278	33	0.061	30	32.701	5	1.612	34
758			min	-56.706	33	-65.976	24	-1308.001	3	-0.047	32	1.957	33	-1.649	24
759		5	max	59.871	27	64.495	34	-78.304	33	0.061	30	0	35	0	35
760			min	-56.706	33	-65.976	24	-1308.044	3	-0.047	32	0	1	0	1
761	M77	1	max	84.368	31	165.343	22	256.337	16	0.091	22	30.503	22	176.879	10
762			min	-50.543	33	-168.466	8	-30.291	22	-0.525	16	-209.341	16	-177.412	8
763		2	max	83.034	31	159.643	22	230.1	16	0.091	22	15.642	22	99.947	10
764			min	-48.764	33	-162.766	8	-32.252	22	-0.525	16	-93.927	16	-98.744	8
765		3	max	81.798	31	153.943	22	205.716	16	0.091	22	12.886	29	25.721	10

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
766			min	-47.115	33	-157.066	8	-34.107	22	-0.525	16	-4.929	27	-23.315	20
767		4	max	80.71	31	148.243	22	184.176	16	0.091	22	102.118	16	50.469	8
768			min	-45.665	33	-151.366	8	-35.796	22	-0.525	16	-16.723	22	-46.666	22
769		5	max	79.157	31	142.543	22	153.763	16	0.091	22	183.146	16	121.014	8
770			min	-43.594	33	-145.666	8	-38	22	-0.525	16	-34.205	22	-115.727	22
771	M78	1	max	18.451	30	0	35	4.313	31	0.077	30	0	35	0	35
772			min	-2.597	32	0	1	0	2	-0.051	32	0	1	0	1
773		2	max	18.451	30	0	35	2.156	31	0.077	30	4.043	31	0	35
774			min	-2.597	32	0	1	0	2	-0.051	32	0	2	0	1
775		3	max	18.451	30	0	35	0	35	0.077	30	5.391	31	0	35
776			min	-2.597	32	0	1	0	1	-0.051	32	0	2	0	1
777		4	max	18.451	30	0	35	0	2	0.077	30	4.043	31	0	35
778			min	-2.597	32	0	1	-2.156	1	-0.051	32	0	2	0	1
779		5	max	18.451	30	0	35	0	2	0.077	30	0	35	0	35
780			min	-2.597	32	0	1	-4.313	1	-0.051	32	0	1	0	1
781	M79	1	max	59.412	32	34.319	35	678.433	5	0.001	33	0	35	0	35
782			min	-63.362	26	-34.319	25	39.358	20	-0.001	31	0	1	0	1
783		2	max	42.345	32	17.252	35	341.044	5	0.001	33	634.974	5	32.12	33
784			min	-46.296	26	-17.252	25	19.779	20	-0.001	31	36.84	20	-32.12	27
785		3	max	25.394	32	0.301	35	5.91	5	0.001	33	852.904	5	43.146	33
786			min	-31.64	30	-0.301	25	0.322	20	-0.001	31	49.462	20	-43.146	27
787		4	max	7.615	32	17.478	33	-20.02	35	0.001	33	641.077	5	32.431	33
788			min	-18.305	30	-17.478	27	-345.478	3	-0.001	31	37.173	20	-32.431	27
789		5	max	6.562	34	34.603	33	-39.662	35	0.001	33	0	35	0	35
790			min	-17.173	28	-34.603	27	-684.015	3	-0.001	31	0	1	0	1
791	M80	1	max	73.888	33	36.238	33	778.621	5	0.001	30	0	35	0	35
792			min	-87.02	31	-36.238	27	78.913	20	-0.001	32	0	1	0	1
793		2	max	73.888	33	18.136	33	389.639	5	0.001	30	730.573	5	34.004	35
794			min	-87.02	31	-18.136	27	39.475	20	-0.001	32	74.015	20	-34.004	25
795		3	max	73.888	33	0	35	0	35	0.001	30	974.098	5	45.339	35
796			min	-87.02	31	0	1	0	1	-0.001	32	98.687	20	-45.339	25
797		4	max	73.888	33	18.136	35	-39.475	35	0.001	30	730.573	5	34.004	35
798			min	-87.02	31	-18.136	25	-389.639	3	-0.001	32	74.015	20	-34.004	25
799		5	max	73.888	33	36.241	35	-78.917	35	0.001	30	0	35	0	35
800			min	-87.02	31	-36.241	25	-778.681	3	-0.001	32	0	1	0	1
801	M81	1	max	792.653	31	1.243	32	0.354	29	0.004	25	0	35	0.003	25
802			min	-235.79	33	-1.485	30	-0.153	35	-0.004	31	0	1	-0.003	31
803		2	max	790.796	31	1.243	32	0.354	29	0.004	25	0.585	29	2.45	30
804			min	-236.904	33	-1.485	30	-0.153	35	-0.004	31	-0.252	35	-2.051	32
805		3	max	788.939	31	1.243	32	0.354	29	0.004	25	1.169	29	4.9	30
806			min	-238.019	33	-1.485	30	-0.153	35	-0.004	31	-0.504	35	-4.102	32
807		4	max	787.081	31	1.243	32	0.354	29	0.004	25	1.754	29	7.349	30
808			min	-239.133	33	-1.485	30	-0.153	35	-0.004	31	-0.756	35	-6.152	32
809		5	max	785.224	31	1.243	32	0.354	29	0.004	25	2.338	29	9.799	30
810			min	-240.247	33	-1.485	30	-0.153	35	-0.004	31	-1.008	35	-8.202	32
811	M82	1	max	1195.874	29	0.537	24	0.41	27	0.001	30	0	35	0.001	32
812			min	-206.897	35	-0.905	30	-0.394	33	-0.001	32	0	1	-0.001	30
813		2	max	1194.017	29	0.537	24	0.41	27	0.001	30	0.676	27	1.492	30
814			min	-208.011	35	-0.905	30	-0.394	33	-0.001	32	-0.651	33	-0.886	24
815		3	max	1192.159	29	0.537	24	0.41	27	0.001	30	1.352	27	2.985	30
816			min	-209.125	35	-0.905	30	-0.394	33	-0.001	32	-1.301	33	-1.772	24
817		4	max	1190.302	29	0.537	24	0.41	27	0.001	30	2.028	27	4.478	30
818			min	-210.24	35	-0.905	30	-0.394	33	-0.001	32	-1.952	33	-2.658	24
819		5	max	1188.445	29	0.537	24	0.41	27	0.001	30	2.704	27	5.971	30
820			min	-211.354	35	-0.905	30	-0.394	33	-0.001	32	-2.602	33	-3.544	24

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
821	M83	1	max	32.095	35	30	20	66.813	31	0.057	35	0	35	0	35
822			min	-121.775	29	-30	10	0	2	-0.066	25	0	1	0	1
823		2	max	32.095	35	15	20	33.406	31	0.057	35	62.637	31	28.125	22
824			min	-121.775	29	-15	10	0	2	-0.066	25	0	2	-28.125	8
825		3	max	32.095	35	0	35	0	35	0.057	35	83.516	31	37.5	22
826			min	-121.775	29	0	1	0	1	-0.066	25	0	2	-37.5	8
827		4	max	32.095	35	15	22	0	2	0.057	35	62.637	31	28.125	22
828			min	-121.775	29	-15	8	-33.406	1	-0.066	25	0	2	-28.125	8
829		5	max	32.095	35	30	22	0	2	0.057	35	0	35	0	35
830			min	-121.775	29	-30	8	-66.813	1	-0.066	25	0	1	0	1
831	M84	1	max	47.202	24	34.33	35	678.66	5	0.01	29	0	35	0	35
832			min	-46.995	34	-34.33	25	39.37	20	-0.006	35	0	1	0	1
833		2	max	30.136	24	17.264	35	341.28	5	0.01	29	635.063	5	32.125	33
834			min	-29.929	34	-17.264	25	19.791	20	-0.006	35	36.845	20	-32.125	27
835		3	max	21.729	10	0.3	35	5.898	5	0.01	29	853.178	5	43.16	33
836			min	-21.535	20	-0.3	25	0.322	20	-0.006	35	49.477	20	-43.16	27
837		4	max	21.729	10	17.483	33	-20.025	35	0.01	29	641.339	5	32.444	33
838			min	-21.535	20	-17.483	27	-345.568	3	-0.006	35	37.187	20	-32.444	27
839		5	max	21.966	26	34.593	33	-39.651	35	0.01	29	0	35	0	35
840			min	-21.781	32	-34.593	27	-683.811	3	-0.006	35	0	1	0	1
841	M85	1	max	42.738	25	36.246	33	778.783	5	0.029	25	0	35	0	35
842			min	-39.13	35	-36.246	27	78.922	20	-0.062	31	0	1	0	1
843		2	max	42.738	25	18.127	33	389.48	5	0.029	25	730.185	5	33.984	35
844			min	-39.13	35	-18.127	27	39.466	20	-0.062	31	73.994	20	-33.984	25
845		3	max	42.738	25	0.01	35	-0.011	35	0.029	25	973.505	5	45.309	35
846			min	-39.13	35	-0.01	25	-0.194	3	-0.062	31	98.654	20	-45.309	25
847		4	max	42.738	25	18.125	35	-39.463	35	0.029	25	729.925	5	33.971	35
848			min	-39.13	35	-18.125	25	-389.428	3	-0.062	31	73.98	20	-33.971	25
849		5	max	43.912	24	36.231	35	-78.907	35	0.029	25	0	35	0	35
850			min	-40.311	34	-36.231	25	-778.496	3	-0.062	31	0	1	0	1
851	M86	1	max	892.987	31	1.155	27	0.036	27	0.005	31	0	35	0	35
852			min	-348.064	33	-0.049	2	-0.113	29	-0.004	25	0	1	0	1
853		2	max	893.922	31	0.447	27	0.036	27	0.005	31	0.612	27	0.004	2
854			min	-347.504	33	-0.049	2	-0.113	29	-0.004	25	-0.067	2	-0.56	27
855		3	max	894.856	31	-0.049	2	0.036	27	0.005	31	0.706	27	0.009	2
856			min	-346.943	33	-0.476	25	-0.113	29	-0.004	25	-0.134	2	-0.602	27
857		4	max	895.791	31	-0.049	2	0.036	27	0.005	31	0.289	35	0.22	33
858			min	-346.382	33	-1.184	25	-0.113	29	-0.004	25	-0.484	29	-0.144	35
859		5	max	896.725	31	-0.049	2	0.036	27	0.005	31	-0.236	35	1.327	25
860			min	-345.821	33	-1.892	25	-0.113	29	-0.004	25	-1.682	29	0.017	2
861	M87	1	max	1583.961	5	0.024	32	0.992	31	0	35	0	35	0	35
862			min	167.026	34	-0.177	30	-0.267	33	0	1	0	1	0	1
863		2	max	1582.104	5	0.024	32	0.992	31	0	35	1.637	31	0.292	30
864			min	165.911	34	-0.177	30	-0.267	33	0	1	-0.44	33	-0.04	32
865		3	max	1580.247	5	0.024	32	0.992	31	0	35	3.274	31	0.584	30
866			min	164.797	34	-0.177	30	-0.267	33	0	1	-0.88	33	-0.081	32
867		4	max	1578.389	5	0.024	32	0.992	31	0	35	4.91	31	0.877	30
868			min	163.683	34	-0.177	30	-0.267	33	0	1	-1.32	33	-0.121	32
869		5	max	1576.532	5	0.024	32	0.992	31	0	35	6.547	31	1.169	30
870			min	162.568	34	-0.177	30	-0.267	33	0	1	-1.761	33	-0.162	32
871	M88	1	max	2709.334	5	0.716	32	0.547	35	0	35	0	35	0	35
872			min	179.196	35	-1.199	30	-0.556	25	0	1	0	1	0	1
873		2	max	2707.477	5	0.716	32	0.547	35	0	35	0.903	35	1.979	30
874			min	178.082	35	-1.199	30	-0.556	25	0	1	-0.918	25	-1.181	32
875		3	max	2705.619	5	0.716	32	0.547	35	0	35	1.806	35	3.957	30

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
876			min	176.967	35	-1.199	30	-0.556	25	0	1	-1.836	25	-2.362	32
877		4	max	2703.762	5	0.716	32	0.547	35	0	35	2.709	35	5.936	30
878			min	175.853	35	-1.199	30	-0.556	25	0	1	-2.755	25	-3.543	32
879		5	max	2701.905	5	0.716	32	0.547	35	0	35	3.612	35	7.914	30
880			min	174.739	35	-1.199	30	-0.556	25	0	1	-3.673	25	-4.725	32
881	M89	1	max	657.384	29	1.416	15	0	29	0.001	32	0	35	0	35
882			min	-344.283	35	0	2	0	27	-0.001	30	0	1	0	1
883		2	max	656.449	29	0.708	15	0	29	0.001	32	0.777	29	0	2
884			min	-344.844	35	0	2	0	27	-0.001	30	0	2	-0.777	15
885		3	max	655.515	29	0	35	0	35	0.001	32	1.036	29	0	2
886			min	-345.405	35	0	1	0	1	-0.001	30	0	2	-1.036	15
887		4	max	654.58	29	0	2	0	29	0.001	32	0.777	29	0	2
888			min	-345.965	35	-0.708	16	0	27	-0.001	30	0	2	-0.777	15
889		5	max	653.646	29	0	2	0	29	0.001	32	0	35	0	35
890			min	-346.526	35	-1.416	16	0	27	-0.001	30	0	1	0	1
891	M90	1	max	650.656	29	1.416	31	0	29	0.009	32	0	35	0	35
892			min	-348.136	35	0	2	0	27	-0.01	26	0	1	0	1
893		2	max	649.722	29	0.708	31	0	29	0.009	32	0.777	29	0	2
894			min	-348.697	35	0	2	0	27	-0.01	26	0	2	-0.777	31
895		3	max	648.787	29	0	35	0	35	0.009	32	1.036	29	0	2
896			min	-349.258	35	0	1	0	1	-0.01	26	0	2	-1.036	31
897		4	max	647.853	29	0	2	0	29	0.009	32	0.777	29	0	2
898			min	-349.818	35	-0.708	7	0	27	-0.01	26	0	2	-0.777	31
899		5	max	646.918	29	0	2	0	29	0.009	32	0	35	0	35
900			min	-350.379	35	-1.416	7	0	27	-0.01	26	0	1	0	1
901	M91	1	max	898.672	31	1.892	25	0.111	29	0.005	31	-0.24	35	1.331	25
902			min	-344.634	33	0.049	2	-0.035	27	-0.005	25	-1.678	29	0.018	2
903		2	max	899.606	31	1.184	25	0.111	29	0.005	31	0.287	35	0.223	33
904			min	-344.073	33	0.049	2	-0.035	27	-0.005	25	-0.481	29	-0.147	35
905		3	max	900.541	31	0.476	25	0.111	29	0.005	31	0.704	27	0.009	2
906			min	-343.512	33	0.049	2	-0.035	27	-0.005	25	-0.134	2	-0.603	27
907		4	max	901.475	31	0.049	2	0.111	29	0.005	31	0.611	27	0.005	2
908			min	-342.951	33	-0.447	27	-0.035	27	-0.005	25	-0.067	2	-0.561	27
909		5	max	902.41	31	0.049	2	0.111	29	0.005	31	0	35	0	35
910			min	-342.391	33	-1.155	27	-0.035	27	-0.005	25	0	1	0	1
911	M92	1	max	9.283	33	1.786	8	30.971	5	0.046	32	0	35	0	35
912			min	-16.13	31	-1.748	22	4.163	33	-0.06	30	0	1	0	1
913		2	max	9.283	33	1.786	8	28.858	5	0.046	32	36.646	5	2.142	22
914			min	-16.13	31	-1.748	22	2.896	33	-0.06	30	4.324	33	-2.188	8
915		3	max	9.283	33	1.786	8	26.745	5	0.046	32	70.703	5	4.283	22
916			min	-16.13	31	-1.748	22	1.628	33	-0.06	30	7.094	33	-4.376	8
917		4	max	9.283	33	1.786	8	24.632	5	0.046	32	102.171	5	6.425	22
918			min	-16.13	31	-1.748	22	0.36	33	-0.06	30	8.312	33	-6.563	8
919		5	max	9.283	33	1.786	8	24.03	2	0.046	32	131.051	5	8.566	22
920			min	-16.13	31	-1.748	22	-1.512	25	-0.06	30	7.976	33	-8.751	8
921	M93	1	max	116.784	28	35.639	35	766.869	5	0.002	27	0	35	0	35
922			min	-86.129	34	-35.639	25	78.272	20	-0.002	33	0	1	0	1
923		2	max	103.425	28	17.828	35	383.592	5	0.002	27	719.235	5	33.427	33
924			min	-68.317	34	-17.828	25	39.145	20	-0.002	33	73.396	20	-33.427	27
925		3	max	102.125	31	0	35	0	35	0.002	27	958.98	5	44.569	33
926			min	-66.739	33	0	1	0	3	-0.002	33	97.862	20	-44.569	27
927		4	max	102.125	31	17.828	33	-39.145	35	0.002	27	719.235	5	33.427	33
928			min	-66.739	33	-17.828	27	-383.592	3	-0.002	33	73.396	20	-33.427	27
929		5	max	102.125	31	35.633	33	-78.266	35	0.002	27	0	35	0	35
930			min	-66.739	33	-35.633	27	-766.745	3	-0.002	33	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
931	M94	1	max	862.718	5	1.187	24	0.558	35	0	35	0	35	0	35
932			min	124.847	32	-1.177	34	-0.598	29	0	1	0	1	0	1
933		2	max	860.86	5	1.187	24	0.558	35	0	35	0.921	35	1.942	34
934			min	123.733	32	-1.177	34	-0.598	29	0	1	-0.987	29	-1.959	24
935		3	max	859.003	5	1.187	24	0.558	35	0	35	1.842	35	3.884	34
936			min	122.619	32	-1.177	34	-0.598	29	0	1	-1.973	29	-3.918	24
937		4	max	857.146	5	1.187	24	0.558	35	0	35	2.762	35	5.826	34
938			min	121.504	32	-1.177	34	-0.598	29	0	1	-2.96	29	-5.877	24
939		5	max	855.289	5	1.187	24	0.558	35	0	35	3.683	35	7.768	34
940			min	120.39	32	-1.177	34	-0.598	29	0	1	-3.947	29	-7.836	24
941	M95	1	max	46.482	31	26.817	8	80.059	5	0.06	25	0	35	0	35
942			min	-39.278	33	-26.795	22	12.035	2	-0.072	31	0	1	0	1
943		2	max	46.482	31	12.117	8	47.321	5	0.06	25	78.02	5	23.82	22
944			min	-39.278	33	-12.095	22	12.035	2	-0.072	31	14.742	2	-23.847	8
945		3	max	46.482	31	2.611	10	14.583	5	0.06	25	115.936	5	29.632	22
946			min	-39.278	33	-2.589	20	1.528	20	-0.072	31	29.485	2	-29.686	8
947		4	max	46.482	31	17.311	10	12.035	2	0.06	25	113.747	5	17.436	22
948			min	-39.278	33	-17.289	20	-30.191	8	-0.072	31	41.709	20	-17.518	8
949		5	max	46.482	31	32.011	10	12.035	2	0.06	25	71.455	5	12.685	20
950			min	-39.278	33	-31.989	20	-62.929	8	-0.072	31	7.488	20	-12.794	10
951	M96	1	max	53.399	28	35.639	35	766.869	5	0.065	31	0	35	0	35
952			min	-50.121	34	-35.639	25	78.272	20	-0.024	33	0	1	0	1
953		2	max	40.04	28	17.828	35	383.592	5	0.065	31	719.235	5	33.427	33
954			min	-32.309	34	-17.828	25	39.145	20	-0.024	33	73.396	20	-33.427	27
955		3	max	33.943	31	0	35	0	35	0.065	31	958.98	5	44.569	33
956			min	-24.2	33	0	1	0	3	-0.024	33	97.862	20	-44.569	27
957		4	max	33.943	31	17.828	33	-39.145	35	0.065	31	719.235	5	33.427	33
958			min	-24.2	33	-17.828	27	-383.592	3	-0.024	33	73.396	20	-33.427	27
959		5	max	33.943	31	35.633	33	-78.266	35	0.065	31	0	35	0	35
960			min	-24.2	33	-35.633	27	-766.745	3	-0.024	33	0	1	0	1
961	M97	1	max	1589.559	5	0.153	33	0.272	35	0	35	0	35	0	35
962			min	168.599	34	-0.419	31	-0.985	29	0	1	0	1	0	1
963		2	max	1587.702	5	0.153	33	0.272	35	0	35	0.448	35	0.692	31
964			min	167.484	34	-0.419	31	-0.985	29	0	1	-1.625	29	-0.253	33
965		3	max	1585.845	5	0.153	33	0.272	35	0	35	0.897	35	1.383	31
966			min	166.37	34	-0.419	31	-0.985	29	0	1	-3.25	29	-0.506	33
967		4	max	1583.988	5	0.153	33	0.272	35	0	35	1.345	35	2.075	31
968			min	165.256	34	-0.419	31	-0.985	29	0	1	-4.875	29	-0.759	33
969		5	max	1582.13	5	0.153	33	0.272	35	0	35	1.793	35	2.767	31
970			min	164.141	34	-0.419	31	-0.985	29	0	1	-6.5	29	-1.012	33
971	M98	1	max	70.027	20	33.678	33	-38.672	35	0.001	27	0	35	0	35
972			min	-73.012	10	-33.678	27	-665.854	3	0	2	0	1	0	1
973		2	max	70.027	20	16.985	33	-19.492	35	0.001	27	-36.247	35	31.566	35
974			min	-73.012	10	-16.985	27	-335.79	3	0	2	-624.092	3	-31.566	25
975		3	max	70.027	20	0.278	35	5.455	5	0.001	27	-48.197	35	41.965	35
976			min	-73.012	10	-0.278	25	0.298	20	0	2	-829.703	3	-41.965	25
977		4	max	70.027	20	16.715	35	330.485	5	0.001	27	-35.982	35	31.319	35
978			min	-73.012	10	-16.715	25	19.203	20	0	2	-619.232	3	-31.319	25
979		5	max	70.027	20	33.649	35	665.282	5	0.001	27	0	35	0	35
980			min	-73.012	10	-33.649	25	38.64	20	0	2	0	1	0	1
981	M99	1	max	158.842	20	33.73	33	-38.727	35	0.262	27	0	35	0	35
982			min	-159.958	10	-33.73	27	-666.865	3	-0.173	2	0	1	0	1
983		2	max	158.842	20	17.012	33	-19.52	35	0.262	27	-36.29	35	31.606	35
984			min	-159.958	10	-17.012	27	-336.311	3	-0.173	2	-624.88	3	-31.606	25
985		3	max	158.842	20	0.264	35	5.188	5	0.262	27	-48.266	35	42.03	35

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
986			min	-159.958	10	-0.264	25	0.283	20	-0.173	2	-830.977	3	-42.03	25
987		4	max	158.842	20	16.73	35	330.777	5	0.262	27	-36.054	35	31.386	35
988			min	-159.958	10	-16.73	25	19.219	20	-0.173	2	-620.559	3	-31.386	25
989		5	max	158.842	20	33.598	35	664.27	5	0.262	27	0	35	0	35
990			min	-159.958	10	-33.598	25	38.585	20	-0.173	2	0	1	0	1
991	M100	1	max	56.599	35	85.663	22	-78.273	20	0.046	32	130.971	5	8.566	22
992			min	-58.593	25	-87.513	8	-1309.628	3	-0.06	30	7.832	20	-8.751	8
993		2	max	56.599	35	85.663	22	-78.299	20	0.046	32	98.23	5	6.425	22
994			min	-58.593	25	-87.513	8	-1309.671	3	-0.06	30	5.875	20	-6.563	8
995		3	max	56.599	35	85.663	22	-78.325	20	0.046	32	65.488	5	4.283	22
996			min	-58.593	25	-87.513	8	-1309.715	3	-0.06	30	3.918	20	-4.376	8
997		4	max	56.599	35	85.663	22	-78.351	20	0.046	32	32.744	5	2.142	22
998			min	-58.593	25	-87.513	8	-1309.758	3	-0.06	30	1.959	20	-2.188	8
999		5	max	56.599	35	85.663	22	-78.377	20	0.046	32	0	35	0	35
1000			min	-58.593	25	-87.513	8	-1309.801	3	-0.06	30	0	1	0	1
1001	M101	1	max	75.677	27	126.853	20	-76.341	33	0.06	25	71.535	5	12.685	20
1002			min	-72.876	33	-127.941	10	-715.261	3	-0.072	31	7.639	33	-12.794	10
1003		2	max	75.677	27	126.853	20	-76.367	33	0.06	25	53.653	5	9.514	20
1004			min	-72.876	33	-127.941	10	-715.304	3	-0.072	31	5.73	33	-9.596	10
1005		3	max	75.677	27	126.853	20	-76.393	33	0.06	25	35.77	5	6.343	20
1006			min	-72.876	33	-127.941	10	-715.347	3	-0.072	31	3.821	33	-6.397	10
1007		4	max	75.677	27	126.853	20	-76.419	33	0.06	25	17.885	5	3.171	20
1008			min	-72.876	33	-127.941	10	-715.391	3	-0.072	31	1.911	33	-3.199	10
1009		5	max	75.677	27	126.853	20	-76.445	33	0.06	25	0	35	0	35
1010			min	-72.876	33	-127.941	10	-715.434	3	-0.072	31	0	1	0	1
1011	M102	1	max	915.076	31	1.416	5	0	33	0.008	30	0	35	0	35
1012			min	-515.242	33	0	2	0	3	-0.006	24	0	1	0	1
1013		2	max	916.011	31	0.708	5	0	33	0.008	30	0.777	5	0	2
1014			min	-514.681	33	0	2	0	3	-0.006	24	0	2	-0.777	3
1015		3	max	916.945	31	0	35	0	35	0.008	30	1.036	5	0	2
1016			min	-514.121	33	0	1	0	1	-0.006	24	0	2	-1.036	3
1017		4	max	917.88	31	0	2	0	33	0.008	30	0.777	5	0	2
1018			min	-513.56	33	-0.708	16	0	3	-0.006	24	0	2	-0.777	3
1019		5	max	918.815	31	0	2	0	33	0.008	30	0	35	0	35
1020			min	-512.999	33	-1.416	16	0	3	-0.006	24	0	1	0	1
1021	M103	1	max	1456.639	29	1.264	5	0.058	25	0.004	32	0	35	0	35
1022			min	-450.544	35	0.032	2	-0.828	31	-0.007	30	0	1	0	1
1023		2	max	1455.704	29	0.556	5	0.058	25	0.004	32	0.635	25	-0.241	32
1024			min	-451.104	35	0.032	2	-0.828	31	-0.007	30	-0.257	2	-1.262	31
1025		3	max	1454.77	29	0.032	2	0.058	25	0.004	32	0.752	25	-0.172	32
1026			min	-451.665	35	-0.478	27	-0.828	31	-0.007	30	-0.513	2	-2.007	31
1027		4	max	1453.835	29	0.032	2	0.058	25	0.004	32	0.355	33	0.208	32
1028			min	-452.226	35	-1.186	27	-0.828	31	-0.007	30	-1.405	31	-2.233	31
1029		5	max	1452.9	29	0.032	2	0.058	25	0.004	32	-0.148	33	1.312	24
1030			min	-452.787	35	-1.894	27	-0.828	31	-0.007	30	-2.909	31	-1.941	31
1031	M104	1	max	1450.871	29	1.894	27	0.83	31	0.005	32	-0.148	33	1.315	24
1032			min	-454.024	35	-0.032	2	-0.058	25	-0.009	30	-2.913	31	-1.945	31
1033		2	max	1449.937	29	1.186	27	0.83	31	0.005	32	0.355	33	0.211	32
1034			min	-454.584	35	-0.032	2	-0.058	25	-0.009	30	-1.408	31	-2.236	31
1035		3	max	1449.002	29	0.478	27	0.83	31	0.005	32	0.752	25	-0.17	32
1036			min	-455.145	35	-0.032	2	-0.058	25	-0.009	30	-0.515	2	-2.009	31
1037		4	max	1448.068	29	-0.032	2	0.83	31	0.005	32	0.635	25	-0.241	32
1038			min	-455.706	35	-0.556	3	-0.058	25	-0.009	30	-0.258	2	-1.264	31
1039		5	max	1447.133	29	-0.032	2	0.83	31	0.005	32	0	35	0	35
1040			min	-456.266	35	-1.264	3	-0.058	25	-0.009	30	0	1	0	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1041	M105	1	max	920.89	31	1.416	16	0	33	0.001	34	0	35	0	35
1042			min	-511.365	33	0	2	0	16	-0.002	28	0	1	0	1
1043		2	max	921.824	31	0.708	16	0	33	0.001	34	0.777	24	0	2
1044			min	-510.804	33	0	2	0	16	-0.002	28	0	2	-0.777	16
1045		3	max	922.759	31	0	35	0	35	0.001	34	1.036	24	0	2
1046			min	-510.243	33	0	1	0	1	-0.002	28	0	2	-1.036	16
1047		4	max	923.693	31	0	2	0	33	0.001	34	0.777	24	0	2
1048			min	-509.682	33	-0.708	3	0	16	-0.002	28	0	2	-0.777	16
1049		5	max	924.628	31	0	2	0	33	0.001	34	0	35	0	35
1050			min	-509.122	33	-1.416	3	0	16	-0.002	28	0	1	0	1
1051	M106	1	max	1244.306	28	1.195	24	0.226	28	0.004	32	0	35	0	35
1052			min	-659.759	34	0.009	2	-0.242	30	-0.004	26	0	1	0	1
1053		2	max	1243.371	28	0.487	24	0.226	28	0.004	32	0.72	24	-0.013	2
1054			min	-660.32	34	0.009	2	-0.242	30	-0.004	26	0	2	-0.684	30
1055		3	max	1242.436	28	0.009	2	0.226	28	0.004	32	0.921	24	-0.025	2
1056			min	-660.88	34	-0.489	26	-0.242	30	-0.004	26	-0.077	34	-0.851	30
1057		4	max	1241.502	28	0.009	2	0.226	28	0.004	32	0.604	24	0.423	28
1058			min	-661.441	34	-1.197	26	-0.242	30	-0.004	26	-0.591	26	-0.499	30
1059		5	max	1240.567	28	0.009	2	0.226	28	0.004	32	0.165	32	1.6	28
1060			min	-662.002	34	-1.905	26	-0.242	30	-0.004	26	-1.825	26	-0.051	2
1061	M107	1	max	1135.28	30	1.416	19	0	30	0	35	0	35	0	35
1062			min	-670.168	32	0	2	0	32	0	29	0	1	0	1
1063		2	max	1134.345	30	0.708	19	0	30	0	35	0.777	30	0	2
1064			min	-670.729	32	0	2	0	32	0	29	0	2	-0.777	24
1065		3	max	1133.411	30	0	35	0	35	0	35	1.036	30	0	2
1066			min	-671.29	32	0	1	0	1	0	29	0	2	-1.036	24
1067		4	max	1132.476	30	0	2	0	30	0	35	0.777	30	0	2
1068			min	-671.85	32	-0.708	26	0	24	0	29	0	2	-0.777	24
1069		5	max	1131.542	30	0	2	0	30	0	35	0	35	0	35
1070			min	-672.411	32	-1.416	26	0	32	0	29	0	1	0	1
1071	M108	1	max	1117.062	28	1.416	28	0	29	0.003	30	0	35	0	35
1072			min	-737.898	34	0	2	0	34	-0.002	24	0	1	0	1
1073		2	max	1116.128	28	0.708	28	0	29	0.003	30	0.777	28	0	2
1074			min	-738.459	34	0	2	0	34	-0.002	24	0	2	-0.777	26
1075		3	max	1115.193	28	0	35	0	35	0.003	30	1.036	28	0	2
1076			min	-739.02	34	0	1	0	1	-0.002	24	0	2	-1.036	26
1077		4	max	1114.258	28	0	2	0	29	0.003	30	0.777	28	0	2
1078			min	-739.58	34	-0.708	12	0	26	-0.002	24	0	2	-0.777	26
1079		5	max	1113.324	28	0	2	0	29	0.003	30	0	35	0	35
1080			min	-740.141	34	-1.416	12	0	34	-0.002	24	0	1	0	1
1081	M109	1	max	1164.431	30	1.176	26	0.113	26	0.01	30	0	35	0	35
1082			min	-654.435	32	-0.024	2	-0.264	28	-0.005	32	0	1	0	1
1083		2	max	1163.496	30	0.468	26	0.113	26	0.01	30	0.685	26	-0.016	2
1084			min	-654.996	32	-0.024	2	-0.264	28	-0.005	32	-0.051	2	-0.678	28
1085		3	max	1162.562	30	-0.024	2	0.113	26	0.01	30	0.851	26	-0.032	2
1086			min	-655.557	32	-0.467	24	-0.264	28	-0.005	32	-0.102	2	-0.837	28
1087		4	max	1161.627	30	-0.024	2	0.113	26	0.01	30	0.501	34	0.164	27
1088			min	-656.118	32	-1.175	24	-0.264	28	-0.005	32	-0.68	28	-0.478	28
1089		5	max	1160.693	30	-0.024	2	0.113	26	0.01	30	0.046	34	1.255	27
1090			min	-656.678	32	-1.883	24	-0.264	28	-0.005	32	-1.943	28	-0.065	2
1091	M110	1	max	1128.719	30	1.416	31	0	34	0.006	32	0	35	0	35
1092			min	-674.119	32	0	2	0	32	-0.016	30	0	1	0	1
1093		2	max	1127.785	30	0.708	31	0	34	0.006	32	0.777	31	0	2
1094			min	-674.68	32	0	2	0	32	-0.016	30	0	2	-0.777	31
1095		3	max	1126.85	30	0	35	0	35	0.006	32	1.036	31	0	2

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1096			min	-675.241	32	0	1	0	1	-0.016	30	0	2	-1.036	31
1097		4	max	1125.916	30	0	2	0	34	0.006	32	0.777	31	0	2
1098			min	-675.801	32	-0.708	30	0	32	-0.016	30	0	2	-0.777	31
1099		5	max	1124.981	30	0	2	0	34	0.006	32	0	35	0	35
1100			min	-676.362	32	-1.416	30	0	32	-0.016	30	0	1	0	1
1101	M111	1	max	1238.688	28	1.905	26	0.239	30	0.006	31	0.161	32	1.604	28
1102			min	-663.357	34	-0.009	2	-0.228	28	-0.004	33	-1.82	26	-0.043	2
1103		2	max	1237.753	28	1.197	26	0.239	30	0.006	31	0.601	24	0.426	28
1104			min	-663.918	34	-0.009	2	-0.228	28	-0.004	33	-0.588	26	-0.491	30
1105		3	max	1236.819	28	0.489	26	0.239	30	0.006	31	0.919	24	-0.021	2
1106			min	-664.479	34	-0.009	2	-0.228	28	-0.004	33	-0.075	34	-0.845	30
1107		4	max	1235.884	28	-0.009	2	0.239	30	0.006	31	0.719	24	-0.011	2
1108			min	-665.039	34	-0.487	24	-0.228	28	-0.004	33	0.002	2	-0.682	30
1109		5	max	1234.95	28	-0.009	2	0.239	30	0.006	31	0	35	0	35
1110			min	-665.6	34	-1.195	24	-0.228	28	-0.004	33	0	1	0	1
1111	M112	1	max	1158.773	30	1.883	24	0.262	28	0.013	30	0.047	34	1.257	27
1112			min	-658.045	32	0.024	2	-0.113	26	-0.006	32	-1.937	28	-0.057	2
1113		2	max	1157.838	30	1.175	24	0.262	28	0.013	30	0.501	34	0.166	27
1114			min	-658.606	32	0.024	2	-0.113	26	-0.006	32	-0.675	28	-0.474	28
1115		3	max	1156.904	30	0.467	24	0.262	28	0.013	30	0.851	26	-0.029	2
1116			min	-659.166	32	0.024	2	-0.113	26	-0.006	32	-0.098	2	-0.834	28
1117		4	max	1155.969	30	0.024	2	0.262	28	0.013	30	0.685	26	-0.014	2
1118			min	-659.727	32	-0.468	26	-0.113	26	-0.006	32	-0.049	2	-0.676	28
1119		5	max	1155.035	30	0.024	2	0.262	28	0.013	30	0	35	0	35
1120			min	-660.288	32	-1.176	26	-0.113	26	-0.006	32	0	1	0	1
1121	M113	1	max	1110.457	28	1.416	30	0	24	0.002	33	0	35	0	35
1122			min	-741.841	34	0	2	0	34	-0.011	31	0	1	0	1
1123		2	max	1109.523	28	0.708	30	0	24	0.002	33	0.777	30	0	2
1124			min	-742.402	34	0	2	0	34	-0.011	31	0	2	-0.777	10
1125		3	max	1108.588	28	0	35	0	35	0.002	33	1.036	30	0	2
1126			min	-742.962	34	0	1	0	1	-0.011	31	0	2	-1.036	10
1127		4	max	1107.654	28	0	2	0	24	0.002	33	0.777	30	0	2
1128			min	-743.523	34	-0.708	24	0	26	-0.011	31	0	2	-0.777	10
1129		5	max	1106.719	28	0	2	0	24	0.002	33	0	35	0	35
1130			min	-744.084	34	-1.416	24	0	34	-0.011	31	0	1	0	1

Envelope Maximum Member Section Forces

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
1	M1	max	1500.471	0	28	-0.008	6.6	35	1.422	6.6	30	0.004	6.6	26	9.386	6.6	30	1.699	6.6	29
2		min	-460.52	6.6	34	-0.257	0	29	-0.354	0	32	-0.003	0	32	-2.341	6.6	32	0	0	1
3	M2	max	841.801	0	31	1.093	6.6	30	0.446	6.6	2	0.019	6.6	28	2.947	6.6	2	2.104	6.6	32
4		min	-337.299	6.6	33	-0.318	0	32	-0.505	0	8	-0.007	0	34	-3.333	6.6	8	-7.212	6.6	30
5	M3	max	2704.02	0	5	0.562	6.6	32	0.643	6.6	35	0	6.6	35	4.243	6.6	35	6.44	6.6	30
6		min	171.862	6.6	33	-0.976	0	30	-0.652	0	25	0	0	1	-4.302	6.6	25	-3.708	6.6	32
7	M4	max	1637.8	0	29	0.891	6.6	31	0.691	6.6	27	0.004	6.6	34	4.561	6.6	27	4.005	6.6	33
8		min	-288.62	6.6	35	-0.606	0	33	-0.166	0	33	-0.031	0	28	-1.092	6.6	33	-5.862	6.6	31
9	M5	max	55.882	5	29	0	5	35	4.313	0	31	0.038	5	30	5.391	2.5	31	0	5	35
10		min	-22.444	0	35	0	0	1	-4.313	5	1	-0.02	0	32	0	0	1	0	0	1
11	M6	max	37.731	0	24	34.592	5	33	678.668	0	5	0.006	5	33	853.217	2.5	5	43.162	2.5	33
12		min	-35.646	0	34	-34.592	5	27	-683.803	5	3	-0.009	0	31	0	0	1	-43.162	2.5	27
13	M7	max	34.916	5	34	34.592	5	33	678.657	0	5	0	5	35	853.013	2.5	5	43.152	2.5	33
14		min	-56.425	5	28	-34.592	5	27	-683.791	5	3	-0.001	0	16	0	0	1	-43.152	2.5	27
15	M8	max	64.345	5	26	35.047	0	35	692.741	0	5	0.007	5	22	865.883	2.5	5	43.807	2.5	33
16		min	-62.019	5	32	-35.047	0	25	-690.977	5	3	-0.047	0	16	0	0	1	-43.807	2.5	27
17	M9	max	50.559	5	33	36.246	0	33	778.783	0	5	0.061	5	32	973.505	2.5	5	45.309	2.5	35

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
18		min	-239.573	0	31	-36.246	0	27	-778.496	5	3	-0.084	0	30	0	0	1	-45.309	2.5	25
19	M10	max	129.005	0	26	36.241	5	35	778.621	0	5	0.047	5	30	974.098	2.5	5	45.339	2.5	35
20		min	-127.833	0	32	-36.241	5	25	-778.681	5	3	-0.028	0	32	0	0	1	-45.339	2.5	25
21	M11	max	61.753	0	26	35.698	5	35	768.016	0	5	0.066	5	31	960.801	2.5	5	44.662	2.5	35
22		min	-58.889	0	32	-35.698	0	27	-768.016	5	3	-0.013	0	33	0	0	1	-44.662	2.5	25
23	M12	max	10.204	5	31	0	5	35	4.313	0	31	0.051	5	30	5.391	2.5	31	0	5	35
24		min	-9.58	0	33	0	0	1	-4.313	5	1	-0.042	0	32	0	0	1	0	0	1
25	M13	max	27.203	5	16	0	5	35	4.313	0	31	0.07	5	32	5.391	2.5	31	0	5	35
26		min	-7.727	0	22	0	0	1	-4.313	5	1	-0.097	0	30	0	0	1	0	0	1
27	M14	max	78.585	3	35	55.904	0	10	124.817	0	16	0.119	3	34	254.188	3	16	113.151	3	8
28		min	-180.384	0	29	-55.717	0	8	-44.66	3	10	-0.509	0	28	-29.705	3	22	-113.713	3	10
29	M15	max	1588.255	0	5	1.319	6.6	24	1.022	6.6	31	0	6.6	35	6.744	6.6	31	8.35	6.6	34
30		min	159.737	6.6	32	-1.265	0	34	-0.3	0	33	0	0	1	-1.98	6.6	33	-8.704	6.6	24
31	M16	max	2705.805	0	5	1.114	6.6	28	0.594	6.6	35	0	6.6	35	3.918	6.6	35	3.297	6.6	34
32		min	172.417	6.6	33	-0.5	0	34	-0.6	0	25	0	0	1	-3.963	6.6	25	-7.352	6.6	28
33	M17	max	9.636	5	31	0	5	35	4.313	0	31	0.052	5	32	5.391	2.5	31	0	5	35
34		min	-7.585	0	33	0	0	1	-4.313	5	1	-0.078	0	30	0	0	1	0	0	1
35	M18	max	39.522	0	32	34.605	5	33	678.425	0	5	0.009	5	31	852.845	2.5	5	43.143	2.5	33
36		min	-49.189	0	30	-34.605	5	27	-684.047	5	3	-0.005	0	33	0	0	1	-43.143	2.5	27
37	M19	max	103.1	5	32	36.246	0	33	778.783	0	5	0.035	5	30	973.505	2.5	5	45.309	2.5	35
38		min	-129.516	5	30	-36.246	0	27	-778.496	5	3	-0.032	0	24	0	0	1	-45.309	2.5	25
39	M20	max	1143.163	4.14	31	1.169	0	27	0.058	4.14	27	0.005	4.14	34	0.778	1.811	27	1.215	4.14	25
40		min	-461.78	0	33	-1.902	4.14	25	-0.295	0.302	29	-0.009	0	28	-2.201	4.14	29	-0.814	1.854	29
41	M21	max	2.625	2	21	158.038	2	20	38.204	0	22	0.762	2	16	250.088	0	16	186.778	2	10
42		min	-100.004	0	19	-161.812	2	10	-401.237	2	16	-0.078	0	22	-449.722	2	16	-185.469	2	8
43	M22	max	1403.382	0	30	0.591	6.6	28	1.19	6.6	31	0	6.6	29	7.852	6.6	31	2.6	6.6	34
44		min	-465.324	6.6	32	-0.394	0	34	-0.704	0	33	0	0	35	-4.648	6.6	33	-3.9	6.6	28
45	M23	max	1571.981	0	5	1.711	6.6	24	1.016	6.6	31	0	6.6	35	6.704	6.6	31	11.276	6.6	26
46		min	161.845	6.6	34	-1.708	0	26	-0.315	0	33	0	0	1	-2.082	6.6	33	-11.29	6.6	24
47	M24	max	2045.302	0	31	0.731	6.6	24	0.527	6.6	35	0.002	6.6	28	3.476	6.6	35	4.832	6.6	26
48		min	-296.917	6.6	33	-0.732	0	26	-0.548	0	25	-0.001	0	34	-3.616	6.6	25	-4.826	6.6	24
49	M25	max	2724.337	0	5	1.126	6.6	28	0.638	6.6	35	0	6.6	35	4.214	6.6	35	4.434	6.6	34
50		min	175.23	6.6	35	-0.672	0	34	-0.641	0	25	0	0	1	-4.231	6.6	25	-7.434	6.6	28
51	M26	max	811.54	0	29	1.416	0	29	0	4.14	29	0.039	4.14	28	1.036	2.07	29	0	4.14	35
52		min	-462.076	4.14	35	-1.416	4.14	27	0	0.345	27	-0.005	0	34	0	0	1	-1.036	2.07	29
53	M27	max	804.937	0	29	1.416	0	30	0	4.14	30	0.009	4.14	34	1.036	2.07	30	0	4.14	35
54		min	-465.944	4.14	35	-1.416	4.14	29	0	0.345	27	-0.014	0	28	0	0	1	-1.036	2.07	27
55	M28	max	1148.861	4.14	31	1.902	0	25	0.287	3.493	29	0.008	4.14	34	0.781	2.329	27	1.219	0	25
56		min	-458.303	0	33	-1.169	4.14	27	-0.06	0.086	27	-0.024	0	28	-2.175	0	29	-0.803	2.329	29
57	M29	max	1459.286	0	28	0.176	6.6	33	0.4	6.6	32	0.002	6.6	24	2.638	6.6	32	4.092	6.6	31
58		min	-451.491	6.6	34	-0.62	0	31	-1.458	0	30	-0.002	0	30	-9.622	6.6	30	-1.161	6.6	33
59	M30	max	854.175	0	5	0.633	6.6	30	0.637	6.6	35	0	6.6	35	4.206	6.6	35	1.817	6.6	32
60		min	93.869	6.6	22	-0.275	0	32	-1.545	0	29	0	0	1	-10.194	6.6	29	-4.176	6.6	30
61	M31	max	36.014	4.9	33	1.381	4.9	24	30.929	0	5	0.019	4.9	32	130.844	4.9	5	6.661	4.9	34
62		min	-123.918	0	31	-1.359	0	34	-1.572	4.9	25	-0.039	0	30	0	0	1	-6.769	4.9	24
63	M32	max	75.938	5	35	35.639	0	35	766.858	0	5	0.079	5	30	958.951	2.5	5	44.568	2.5	33
64		min	-94.001	0	25	-35.639	0	25	-766.754	5	3	-0.059	0	32	0	0	1	-44.568	2.5	27
65	M33	max	155.774	5	30	35.639	0	35	766.869	0	5	0.028	5	32	958.98	2.5	5	44.569	2.5	33
66		min	-97.12	5	32	-35.639	0	25	-766.745	5	3	-0.049	0	30	0	0	1	-44.569	2.5	27
67	M34	max	56.876	5	30	35.464	5	33	758.994	0	5	0.068	5	25	951.903	2.5	5	44.209	2.5	33
68		min	-50.369	5	32	-35.464	5	27	-763.429	5	3	-0.027	0	31	0	0	1	-44.209	2.5	27
69	M35	max	12.096	4.9	25	1.405	4.9	24	30.941	0	5	0.043	4.9	27	130.902	4.9	5	6.377	4.9	34
70		min	-10.258	0	35	-1.301	0	34	-1.571	4.9	24	-0.04	0	33	0	0	1	-6.887	4.9	24
71	M36	max	9.752	4.9	33	1.343	4.9	28	31.02	0	5	0.081	4.9	30	131.289	4.9	5	5.772	4.9	34
72		min	-17.1	0	31	-1.178	0	34	-1.562	4.9	10	-0.064	0	32	0	0	1	-6.58	4.9	28

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
73	M37	max	1587.638	0	5	1.272	6.6	28	0.285	6.6	35	0	6.6	35	1.88	6.6	35	7.638	6.6	34
74		min	160.748	6.6	32	-1.157	0	34	-0.983	0	29	0	0	1	-6.487	6.6	29	-8.395	6.6	28
75	M38	max	15.059	4.9	29	1.346	4.9	24	30.92	0	5	0.061	4.9	30	130.798	4.9	5	6.45	4.9	34
76		min	-8.204	0	35	-1.316	0	34	-1.568	4.9	27	-0.047	0	32	0	0	1	-6.598	4.9	24
77	M39	max	208.681	0	28	35.639	0	35	766.858	0	5	0.037	5	27	958.951	2.5	5	44.568	2.5	33
78		min	-144.435	0	34	-35.639	0	25	-766.754	5	3	-0.035	0	33	0	0	1	-44.568	2.5	27
79	M40	max	109.941	0.001	31	126.458	0.001	30	895.787	0	5	0.091	0.1	22	30.453	0.1	22	186.769	0	10
80		min	-84.639	0.001	33	-98.369	0.001	32	8.611	0.1	22	-0.525	0	16	-298.707	0	16	-185.477	0	8
81	M41	max	1071.824	0	30	0.595	6.6	28	0.346	6.6	34	0.001	6.6	35	2.284	6.6	34	2.563	6.6	34
82		min	-372.846	6.6	32	-0.389	0	34	-0.949	0	28	-0.003	0	29	-6.265	6.6	28	-3.928	6.6	28
83	M42	max	1584.702	0	5	1.622	6.6	24	0.318	6.6	35	0	6.6	35	2.097	6.6	35	10.42	6.6	34
84		min	163.68	6.6	34	-1.579	0	34	-1.053	0	29	0	0	1	-6.948	6.6	29	-10.703	6.6	24
85	M43	max	74.356	0	22	232.269	0	18	12.529	1.296	35	1.066	1.296	20	16.242	1.296	35	10.695	1.296	20
86		min	-283.426	0	16	-13.83	0	20	-12.774	0	25	-2.41	0	18	-16.56	1.296	25	-293.429	1.296	18
87	M44	max	81.085	0	22	123.962	0	18	12.753	1.296	27	2.283	1.296	18	16.533	1.296	27	17.453	1.296	20
88		min	-200.614	0	16	-19.043	0	20	-12.559	0	33	-1.094	0	20	-16.282	1.296	33	-153.022	1.296	18
89	M45	max	75.992	0.136	10	143.13	0	18	14.105	0	35	-0.045	1.302	35	3.519	0.054	31	32.633	1.302	20
90		min	-207.206	0	16	-66.942	0.136	16	-17.531	0	29	-1.777	0	3	-5.99	1.302	19	-300.33	0.095	18
91	M46	max	74.547	0	22	35.016	0	18	10.112	1.302	17	1.485	1.302	5	5.995	1.302	17	32.891	1.302	20
92		min	-123.667	0	16	-18.627	0	8	-5.046	1.302	23	0.026	0	33	-4.069	0	29	-190.752	1.302	18
93	M47	max	193.136	0	18	-13.886	1.302	20	24.938	1.302	25	-0.119	1.302	23	16.124	1.302	25	167.157	1.302	16
94		min	-48.131	0	20	-242.88	1.302	3	-23.678	0	35	-2.45	0	3	-16.48	0	29	-190.686	0	18
95	M48	max	261.869	0	18	-19.403	1.302	20	23.735	1.302	33	2.096	1.302	5	16.442	0	31	219.99	1.302	16
96		min	-42.476	0	20	-325.615	1.302	3	-24.886	0	27	0.093	0	21	-16.091	1.302	27	-242.168	0	18
97	M49	max	187.064	0	18	-7.989	1.285	20	26.836	1.285	29	3.742	1.285	5	18.884	1.285	29	473.781	1.285	5
98		min	-27.465	0	20	-260.294	1.285	18	-23.471	0	35	0.118	0	35	-16.068	0	25	-14.812	0	22
99	M50	max	254.559	0	18	-13.598	1.285	20	23.544	1.285	33	-0.138	1.285	33	16.03	0	27	635.507	1.285	5
100		min	-21.898	0	20	-340.329	1.285	3	-26.777	0	31	-4.033	0	3	-18.847	1.285	31	-11.788	0	22
101	M51	max	41.605	0	22	97.303	0	18	24.813	0	19	-0.158	1.28	33	13.429	1.28	31	159.924	0	28
102		min	-164.798	0	16	-9.256	0	20	-20.529	0	21	-4.005	0	3	-16.691	0	31	-22.993	1.28	22
103	M52	max	39.959	0	22	100.459	0	18	20.539	0	23	3.846	1.28	5	16.671	0	29	252.245	0	5
104		min	-182.028	0	16	-8.951	0	20	-24.813	0	17	0.147	0	35	-13.409	1.28	29	-18.142	1.28	22
105	M53	max	31.629	0	22	75.379	0	18	18.705	1.302	27	0.019	1.302	23	12.177	1.302	27	76.487	0	16
106		min	-145.72	0	16	-5.283	0	20	-18.052	0	33	-0.046	0	17	-12.177	0	27	-62.569	1.302	18
107	M54	max	29.98	0	22	78.12	0	18	18.115	1.302	35	0.02	1.302	23	12.123	0	25	161.322	0	16
108		min	-163.009	0	16	-5.013	0	20	-18.622	0	25	-0.039	0	17	-12.122	1.302	25	-36.07	1.302	22
109	M55	max	32.853	1.302	35	61.532	1.302	16	22.495	1.302	31	3.329	1.302	5	16.087	1.302	31	39.605	0	20
110		min	-133.558	0	29	-13.322	1.302	10	-17.733	0	33	0.115	0	33	-13.2	0	31	-125.85	1.302	18
111	M56	max	27.416	1.302	33	64.32	1.302	16	17.801	1.302	35	-0.11	1.302	35	13.184	0	29	80.196	0	16
112		min	-148.082	0	31	-13.023	1.302	10	-22.469	0	29	-3.285	0	3	-16.07	1.302	29	-50.348	1.302	18
113	M57	max	314.99	1.302	31	-2.776	1.166	20	23.695	1.302	25	0.113	1.302	29	17.289	0	35	315.246	1.302	5
114		min	-20.508	0	33	-437.128	1.302	3	-23.059	1.302	35	-0.091	0	35	-19.391	0	29	-125.868	0	18
115	M58	max	202.434	1.302	29	-1.293	1.302	20	13.703	1.302	33	0.174	1.302	29	19.645	0	31	384.263	1.302	5
116		min	-18.326	0	35	-318.978	1.302	18	-15.307	0	31	-0.087	0	35	-17.54	0	33	-50.33	0	18
117	M59	max	16.305	0	29	6.01	4	25	104.914	4	5	0.049	4	31	10.636	4	25	12.128	4	35
118		min	-13.937	0	35	-5.993	0	27	-105.241	0	3	-0.004	0	33	-104.041	2	3	-13.226	4	29
119	M60	max	22.037	0	25	13.861	0	26	341.418	4	5	0.073	4	31	16.846	0	29	13.412	2	32
120		min	-21.752	0	35	-13.861	0	32	-341.449	0	3	-0.002	0	33	-332.46	2	3	-14.804	2	30
121	M61	max	3.22	4	5	12.084	4	27	21.288	4	27	0.072	4	31	19.906	0	25	23.569	4	33
122		min	0.078	0	33	-12.114	0	25	-21.307	0	25	-0.001	0	33	-19.8	3.708	25	-27.033	0	29
123	M62	max	46.965	0	25	23.08	4	24	560.53	4	5	0.045	4	5	15.144	4	5	22.525	2	32
124		min	-44.246	0	35	-23.059	4	34	-560.446	0	3	0	0	33	-545.428	2	3	-23.913	2	26
125	M63	max	-0.43	4	34	9.149	4	25	18.868	4	25	0.023	4	31	15.109	0	27	17.827	4	35
126		min	-7.996	0	3	-9.189	0	27	-18.893	0	27	0	0	33	-16.11	3.292	27	-20.859	0	31
127	M64	max	6.896	4	5	9.17	4	25	19.036	4	25	0.002	4	31	15.487	0	27	17.928	4	35

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
128		min	0.314	0	35	-9.216	0	27	-19.066	0	27	0	0	33	-16.307	3.333	27	-20.202	0	31
129	M65	max	32.03	4	35	19.947	0	34	485.541	4	5	0	4	33	12.821	4	19	19.316	2	32
130		min	-31.57	4	25	-19.95	0	24	-486.371	0	3	-0.019	0	3	-473.373	2	3	-20.702	2	30
131	M66	max	1314.084	0	5	0	3.3	35	0	3.3	35	0	3.3	35	0	3.3	35	0	3.3	35
132		min	72.464	3.3	20	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
133	M67	max	1168.103	0	5	0	3.3	35	0	3.3	35	0	3.3	35	0	3.3	35	0	3.3	35
134		min	61.842	3.3	20	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1
135	M68	max	44.654	3	31	55.442	3	8	43.514	0	10	0.387	3	28	178.515	0	16	112.244	0	8
136		min	-37.449	0	33	-55.188	3	10	-153.928	3	16	-0.114	0	34	-163.008	3	16	-111.484	0	10
137	M69	max	36.5	0	32	33.729	0	33	664.3	5	5	0.036	5	30	0	5	35	42.028	2.5	35
138		min	-45.273	0	30	-33.729	0	27	-666.838	0	3	-0.028	0	32	-830.931	2.5	3	-42.028	2.5	25
139	M70	max	34.877	0	32	33.73	0	33	664.27	5	5	0.014	5	32	0	5	35	42.03	2.5	35
140		min	-62.838	0	16	-33.73	0	27	-666.865	0	3	-0.025	0	30	-830.975	2.5	3	-42.03	2.5	25
141	M71	max	70.176	5	22	34.001	5	35	672.18	5	5	0.359	5	18	0	5	35	42.613	2.5	35
142		min	-112.686	0	16	-34.001	5	25	-670.147	0	3	-0.018	0	20	-842.439	2.5	3	-42.613	2.5	25
143	M72	max	37.944	0	32	33.722	0	33	664.438	5	5	0.022	5	27	0	5	35	42.036	2.5	35
144		min	-42.942	0	30	-33.722	0	27	-666.699	0	3	-0.02	0	33	-831.098	2.5	3	-42.036	2.5	25
145	M73	max	15.831	0.1	35	66.611	0.1	34	-78.238	0	35	0.019	0.1	32	130.861	0	5	6.661	0	34
146		min	-108.362	0	29	-67.687	0	24	-1308.695	0.1	3	-0.039	0	30	0	0.1	1	-6.769	0	24
147	M74	max	57.526	0.1	27	63.773	0.1	34	-78.241	0	34	0.043	0.1	27	130.873	0	5	6.377	0	34
148		min	-55.692	0	33	-68.869	0	24	-1308.813	0.1	3	-0.04	0	33	0	0.1	1	-6.887	0	24
149	M75	max	56.561	0.1	35	57.72	0.1	34	-78.67	0	32	0.081	0.1	30	131.656	0	5	5.772	0	34
150		min	-58.45	0	25	-65.804	0	28	-1316.651	0.1	3	-0.064	0	32	0	0.1	1	-6.58	0	28
151	M76	max	59.871	0.1	27	64.495	0.1	34	-78.201	0	33	0.061	0.1	30	130.796	0	5	6.45	0	34
152		min	-56.706	0	33	-65.976	0	24	-1308.044	0.1	3	-0.047	0	32	0	0.1	1	-6.598	0	24
153	M77	max	84.368	0	31	165.343	0	22	256.337	0	16	0.091	1.9	22	183.146	1.9	16	176.879	0	10
154		min	-50.543	0	33	-168.466	0	8	-38	1.9	22	-0.525	0	16	-209.341	0	16	-177.412	0	8
155	M78	max	18.451	5	30	0	5	35	4.313	0	31	0.077	5	30	5.391	2.5	31	0	5	35
156		min	-2.597	0	32	0	0	1	-4.313	5	1	-0.051	0	32	0	0	1	0	0	1
157	M79	max	59.412	0	32	34.603	5	33	678.433	0	5	0.001	5	33	852.904	2.5	5	43.146	2.5	33
158		min	-63.362	0	26	-34.603	5	27	-684.015	5	3	-0.001	0	31	0	0	1	-43.146	2.5	27
159	M80	max	73.888	5	33	36.241	5	35	778.621	0	5	0.001	5	30	974.098	2.5	5	45.339	2.5	35
160		min	-87.02	0	31	-36.241	5	25	-778.681	5	3	-0.001	0	32	0	0	1	-45.339	2.5	25
161	M81	max	792.653	0	31	1.243	6.6	32	0.354	6.6	29	0.004	6.6	25	2.338	6.6	29	9.799	6.6	30
162		min	-240.247	6.6	33	-1.485	0	30	-0.153	0	35	-0.004	0	31	-1.008	6.6	35	-8.202	6.6	32
163	M82	max	1195.874	0	29	0.537	6.6	24	0.41	6.6	27	0.001	6.6	30	2.704	6.6	27	5.971	6.6	30
164		min	-211.354	6.6	35	-0.905	0	30	-0.394	0	33	-0.001	0	32	-2.602	6.6	33	-3.544	6.6	24
165	M83	max	32.095	5	35	30	5	22	66.813	0	31	0.057	5	35	83.516	2.5	31	37.5	2.5	22
166		min	-121.775	0	29	-30	5	8	-66.813	5	1	-0.066	0	25	0	0	1	-37.5	2.5	8
167	M84	max	47.202	0	24	34.593	5	33	678.66	0	5	0.01	5	29	853.178	2.5	5	43.16	2.5	33
168		min	-46.995	0	34	-34.593	5	27	-683.811	5	3	-0.006	0	35	0	0	1	-43.16	2.5	27
169	M85	max	43.912	5	24	36.246	0	33	778.783	0	5	0.029	5	25	973.505	2.5	5	45.309	2.5	35
170		min	-40.311	5	34	-36.246	0	27	-778.496	5	3	-0.062	0	31	0	0	1	-45.309	2.5	25
171	M86	max	896.725	4.14	31	1.155	0	27	0.036	4.14	27	0.005	4.14	31	0.732	1.725	27	1.327	4.14	25
172		min	-348.064	0	33	-1.892	4.14	25	-0.113	3.45	29	-0.004	0	25	-1.682	4.14	29	-0.647	1.639	27
173	M87	max	1583.961	0	5	0.024	6.6	32	0.992	6.6	31	0	6.6	35	6.547	6.6	31	1.169	6.6	30
174		min	162.568	6.6	34	-0.177	0	30	-0.267	0	33	0	0	1	-1.761	6.6	33	-0.162	6.6	32
175	M88	max	2709.334	0	5	0.716	6.6	32	0.547	6.6	35	0	6.6	35	3.612	6.6	35	7.914	6.6	30
176		min	174.739	6.6	35	-1.199	0	30	-0.556	0	25	0	0	1	-3.673	6.6	25	-4.725	6.6	32
177	M89	max	657.384	0	29	1.416	0	15	0	4.14	29	0.001	4.14	32	1.036	2.07	29	0	4.14	35
178		min	-346.526	4.14	35	-1.416	4.14	16	0	0.345	27	-0.001	0	30	0	0	1	-1.036	2.07	15
179	M90	max	650.656	0	29	1.416	0	31	0	4.14	29	0.009	4.14	32	1.036	2.07	29	0	4.14	35
180		min	-350.379	4.14	35	-1.416	4.14	7	0	3.105	27	-0.01	0	26	0	0	1	-1.036	2.07	31
181	M91	max	902.41	4.14	31	1.892	0	25	0.111	2.329	29	0.005	4.14	31	0.731	2.415	27	1.331	0	25
182		min	-344.634	0	33	-1.155	4.14	27	-0.035	0.086	27	-0.005	0	25	-1.678	0	29	-0.648	2.501	27

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
183	M92	max	9.283	4.9	33	1.786	4.9	8	30.971	0	5	0.046	4.9	32	131.051	4.9	5	8.566	4.9	22
184		min	-16.13	0	31	-1.748	0	22	-1.512	4.9	25	-0.06	0	30	0	0	1	-8.751	4.9	8
185	M93	max	116.784	0	28	35.639	0	35	766.869	0	5	0.002	5	27	958.98	2.5	5	44.569	2.5	33
186		min	-86.129	0	34	-35.639	0	25	-766.745	5	3	-0.002	0	33	0	0	1	-44.569	2.5	27
187	M94	max	862.718	0	5	1.187	6.6	24	0.558	6.6	35	0	6.6	35	3.683	6.6	35	7.768	6.6	34
188		min	120.39	6.6	32	-1.177	0	34	-0.598	0	29	0	0	1	-3.947	6.6	29	-7.836	6.6	24
189	M95	max	46.482	4.9	31	32.011	4.9	10	80.059	0	5	0.06	4.9	25	119.911	3.011	5	29.913	2.246	22
190		min	-39.278	0	33	-31.989	4.9	20	-62.929	4.9	8	-0.072	0	31	0	0	1	-29.964	2.246	8
191	M96	max	53.399	0	28	35.639	0	35	766.869	0	5	0.065	5	31	958.98	2.5	5	44.569	2.5	33
192		min	-50.121	0	34	-35.639	0	25	-766.745	5	3	-0.024	0	33	0	0	1	-44.569	2.5	27
193	M97	max	1589.559	0	5	0.153	6.6	33	0.272	6.6	35	0	6.6	35	1.793	6.6	35	2.767	6.6	31
194		min	164.141	6.6	34	-0.419	0	31	-0.985	0	29	0	0	1	-6.5	6.6	29	-1.012	6.6	33
195	M98	max	70.027	5	20	33.678	0	33	665.282	5	5	0.001	5	27	0	5	35	41.965	2.5	35
196		min	-73.012	0	10	-33.678	0	27	-665.854	0	3	0	0	2	-829.703	2.5	3	-41.965	2.5	25
197	M99	max	158.842	5	20	33.73	0	33	664.27	5	5	0.262	5	27	0	5	35	42.03	2.5	35
198		min	-159.958	0	10	-33.73	0	27	-666.865	0	3	-0.173	0	2	-830.977	2.5	3	-42.03	2.5	25
199	M100	max	56.599	0.1	35	85.663	0.1	22	-78.273	0	20	0.046	0.1	32	130.971	0	5	8.566	0	22
200		min	-58.593	0	25	-87.513	0	8	-1309.801	0.1	3	-0.06	0	30	0	0.1	1	-8.751	0	8
201	M101	max	75.677	0.1	27	126.853	0.1	20	-76.341	0	33	0.06	0.1	25	71.535	0	5	12.685	0	20
202		min	-72.876	0	33	-127.941	0	10	-715.434	0.1	3	-0.072	0	31	0	0.1	1	-12.794	0	10
203	M102	max	918.815	4.14	31	1.416	0	5	0	4.054	33	0.008	4.14	30	1.036	2.07	5	0	4.14	35
204		min	-515.242	0	33	-1.416	4.14	16	0	0.345	7	-0.006	0	24	0	0	1	-1.036	2.07	3
205	M103	max	1456.639	0	29	1.264	0	5	0.058	4.14	25	0.004	4.14	32	0.771	1.768	25	1.312	4.14	24
206		min	-452.787	4.14	35	-1.894	4.14	27	-0.828	2.76	31	-0.007	0	30	-2.909	4.14	31	-2.234	3.019	31
207	M104	max	1450.871	0	29	1.894	0	27	0.83	4.14	31	0.005	4.14	32	0.771	2.372	25	1.315	0	24
208		min	-456.266	4.14	35	-1.264	4.14	3	-0.058	2.933	25	-0.009	0	30	-2.913	0	31	-2.237	1.078	31
209	M105	max	924.628	4.14	31	1.416	0	16	0	3.838	33	0.001	4.14	34	1.036	2.07	24	0	4.14	35
210		min	-511.365	0	33	-1.416	4.14	3	0	0.345	16	-0.002	0	28	0	0	1	-1.036	2.07	16
211	M106	max	1244.306	0	28	1.195	0	24	0.226	0	28	0.004	4.14	32	0.924	1.941	24	1.6	4.14	28
212		min	-662.002	4.14	34	-1.905	4.14	26	-0.242	4.097	30	-0.004	0	26	-1.825	4.14	26	-0.859	1.898	30
213	M107	max	1135.28	0	30	1.416	0	19	0	0.518	30	0	4.14	35	1.036	2.07	30	0	4.14	35
214		min	-672.411	4.14	32	-1.416	4.14	26	0	3.795	24	0	0	29	0	0	1	-1.036	2.07	24
215	M108	max	1117.062	0	28	1.416	0	28	0	0.518	29	0.003	4.14	30	1.036	2.07	28	0	4.14	35
216		min	-740.141	4.14	34	-1.416	4.14	12	0	3.795	26	-0.002	0	24	0	0	1	-1.036	2.07	26
217	M109	max	1164.431	0	30	1.176	0	26	0.113	0.647	26	0.01	4.14	30	0.859	1.898	26	1.255	4.14	27
218		min	-656.678	4.14	32	-1.883	4.14	24	-0.264	3.968	28	-0.005	0	32	-1.943	4.14	28	-0.847	1.854	28
219	M110	max	1128.719	0	30	1.416	0	31	0	0.863	34	0.006	4.14	32	1.036	2.07	31	0	4.14	35
220		min	-676.362	4.14	32	-1.416	4.14	30	0	3.579	32	-0.016	0	30	0	0	1	-1.036	2.07	31
221	M111	max	1238.688	0	28	1.905	0	26	0.239	0.216	30	0.006	4.14	31	0.922	2.199	24	1.604	0	28
222		min	-665.6	4.14	34	-1.195	4.14	24	-0.228	4.054	28	-0.004	0	33	-1.82	0	26	-0.854	2.243	30
223	M112	max	1158.773	0	30	1.883	0	24	0.262	0.69	28	0.013	4.14	30	0.86	2.243	26	1.257	0	27
224		min	-660.288	4.14	32	-1.176	4.14	26	-0.113	4.054	26	-0.006	0	32	-1.937	0	28	-0.844	2.286	28
225	M113	max	1110.457	0	28	1.416	0	30	0	0.518	24	0.002	4.14	33	1.036	2.07	30	0	4.14	35
226		min	-744.084	4.14	34	-1.416	4.14	24	0	3.795	26	-0.011	0	31	0	0	1	-1.036	2.07	10

Envelope Member End Reactions

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1	M1	I	max	1500.471	28	-0.008	35	1.422	30	0.004	26	0.003	26	0	35
2			min	-456.062	34	-0.257	29	-0.354	32	-0.003	32	-0.003	32	0	1
3		J	max	1493.042	28	-0.008	35	1.422	30	0.004	26	9.386	30	1.699	29
4			min	-460.52	34	-0.257	29	-0.354	32	-0.003	32	-2.341	32	0.05	35
5	M2	I	max	841.801	31	1.093	30	0.446	2	0.019	28	0	35	0.014	28
6			min	-332.841	33	-0.318	32	-0.505	8	-0.007	34	0	1	-0.005	34
7		J	max	834.372	31	1.093	30	0.446	2	0.019	28	2.947	2	2.104	32
8			min	-337.299	33	-0.318	32	-0.505	8	-0.007	34	-3.333	8	-7.212	30

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
9	M3	I	max	2704.02	5	0.562	32	0.643	35	0	35	0	35	0	35
10			min	176.319	33	-0.976	30	-0.652	25	0	1	0	1	0	1
11		J	max	2696.591	5	0.562	32	0.643	35	0	35	4.243	35	6.44	30
12			min	171.862	33	-0.976	30	-0.652	25	0	1	-4.302	25	-3.708	32
13	M4	I	max	1637.8	29	0.891	31	0.691	27	0.004	34	0	35	0.024	28
14			min	-284.162	35	-0.606	33	-0.166	33	-0.031	28	0	1	-0.003	34
15		J	max	1630.371	29	0.891	31	0.691	27	0.004	34	4.561	27	4.005	33
16			min	-288.62	35	-0.606	33	-0.166	33	-0.031	28	-1.092	33	-5.862	31
17	M5	I	max	55.882	29	0	35	4.313	31	0.038	30	0	35	0	35
18			min	-22.444	35	0	1	0	2	-0.02	32	0	1	0	1
19		J	max	55.882	29	0	35	0	2	0.038	30	0	35	0	35
20			min	-22.444	35	0	1	-4.313	1	-0.02	32	0	1	0	1
21	M6	I	max	37.731	24	34.331	35	678.668	5	0.006	33	0	35	0	35
22			min	-35.646	34	-34.331	25	39.371	20	-0.009	31	0	1	0	1
23		J	max	33.809	26	34.592	33	-39.651	35	0.006	33	0	35	0	35
24			min	-31.703	32	-34.592	27	-683.803	3	-0.009	31	0	1	0	1
25	M7	I	max	27.709	32	34.33	35	678.657	5	0	35	0	35	0	35
26			min	-50.623	30	-34.33	25	39.37	20	-0.001	16	0	1	0	1
27		J	max	34.916	34	34.592	33	-39.65	35	0	35	0	35	0	35
28			min	-56.425	28	-34.592	27	-683.791	3	-0.001	16	0	1	0	1
29	M8	I	max	42.338	10	35.047	35	692.741	5	0.007	22	0	35	0	35
30			min	-39.908	20	-35.047	25	40.138	20	-0.047	16	0	1	0	1
31		J	max	64.345	26	34.957	33	-40.042	35	0.007	22	0	35	0	35
32			min	-62.019	32	-34.957	27	-690.977	3	-0.047	16	0	1	0	1
33	M9	I	max	50.559	33	36.246	33	778.783	5	0.061	32	0	35	0	35
34			min	-239.573	31	-36.246	27	78.922	20	-0.084	30	0	1	0	1
35		J	max	50.559	33	36.231	35	-78.907	35	0.061	32	0	35	0	35
36			min	-239.573	31	-36.231	25	-778.496	3	-0.084	30	0	1	0	1
37	M10	I	max	129.005	26	36.238	33	778.621	5	0.047	30	0	35	0	35
38			min	-127.833	32	-36.238	27	78.913	20	-0.028	32	0	1	0	1
39		J	max	84.718	25	36.241	35	-78.917	35	0.047	30	0	35	0	35
40			min	-88.619	31	-36.241	25	-778.681	3	-0.028	32	0	1	0	1
41	M11	I	max	61.753	26	35.698	33	768.016	5	0.066	31	0	35	0	35
42			min	-58.889	32	-35.698	27	78.335	20	-0.013	33	0	1	0	1
43		J	max	46.415	25	35.698	35	-78.335	35	0.066	31	0	35	0	35
44			min	-43.553	35	-35.698	25	-768.016	3	-0.013	33	0	1	0	1
45	M12	I	max	10.204	31	0	35	4.313	31	0.051	30	0	35	0	35
46			min	-9.58	33	0	1	0	2	-0.042	32	0	1	0	1
47		J	max	10.204	31	0	35	0	2	0.051	30	0	35	0	35
48			min	-9.58	33	0	1	-4.313	1	-0.042	32	0	1	0	1
49	M13	I	max	27.203	16	0	35	4.313	31	0.07	32	0	35	0	35
50			min	-7.727	22	0	1	0	2	-0.097	30	0	1	0	1
51		J	max	27.203	16	0	35	0	2	0.07	32	0	35	0	35
52			min	-7.727	22	0	1	-4.313	1	-0.097	30	0	1	0	1
53	M14	I	max	78.585	35	55.904	10	124.817	16	0.119	34	0	35	0	35
54			min	-180.384	29	-55.717	8	14.151	22	-0.509	28	0	1	0	1
55		J	max	78.585	35	19.904	10	61.107	2	0.119	34	254.188	16	113.151	8
56			min	-180.384	29	-19.717	8	-44.66	10	-0.509	28	-29.705	22	-113.713	10
57	M15	I	max	1588.255	5	1.319	24	1.022	31	0	35	0	35	0	35
58			min	164.194	32	-1.265	34	-0.3	33	0	1	0	1	0	1
59		J	max	1580.826	5	1.319	24	1.022	31	0	35	6.744	31	8.35	34
60			min	159.737	32	-1.265	34	-0.3	33	0	1	-1.98	33	-8.704	24
61	M16	I	max	2705.805	5	1.114	28	0.594	35	0	35	0	35	0	35
62			min	176.874	33	-0.5	34	-0.6	25	0	1	0	1	0	1
63		J	max	2698.376	5	1.114	28	0.594	35	0	35	3.918	35	3.297	34

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
64			min	172.417	33	-0.5	34	-0.6	25	0	1	-3.963	25	-7.352	28
65	M17	I	max	9.636	31	0	35	4.313	31	0.052	32	0	35	0	35
66			min	-7.585	33	0	1	0	2	-0.078	30	0	1	0	1
67		J	max	9.636	31	0	35	0	2	0.052	32	0	35	0	35
68			min	-7.585	33	0	1	-4.313	1	-0.078	30	0	1	0	1
69	M18	I	max	39.522	32	34.318	35	678.425	5	0.009	31	0	35	0	35
70			min	-49.189	30	-34.318	25	39.357	20	-0.005	33	0	1	0	1
71		J	max	25.142	34	34.605	33	-39.664	35	0.009	31	0	35	0	35
72			min	-38.451	28	-34.605	27	-684.047	3	-0.005	33	0	1	0	1
73	M19	I	max	61.646	33	36.246	33	778.783	5	0.035	30	0	35	0	35
74			min	-98.165	31	-36.246	27	78.922	20	-0.032	24	0	1	0	1
75		J	max	103.1	32	36.231	35	-78.907	35	0.035	30	0	35	0	35
76			min	-129.516	30	-36.231	25	-778.496	3	-0.032	24	0	1	0	1
77	M20	I	max	1139.425	31	1.169	27	0.058	27	0.005	34	0	35	0	35
78			min	-461.78	33	-0.079	2	-0.295	29	-0.009	28	0	1	0	1
79		J	max	1143.163	31	-0.079	2	0.058	27	0.005	34	-0.123	35	1.215	25
80			min	-459.537	33	-1.902	25	-0.295	29	-0.009	28	-2.201	29	-0.129	2
81	M21	I	max	2.625	21	134.038	20	38.204	22	0.762	16	250.088	16	106.789	20
82			min	-100.004	19	-137.812	10	-294.689	16	-0.078	22	-32.418	22	-112.846	10
83		J	max	2.625	21	158.038	20	30.171	22	0.762	16	35.733	22	186.778	10
84			min	-100.004	19	-161.812	10	-401.237	16	-0.078	22	-449.722	16	-185.469	8
85	M22	I	max	1403.382	30	0.591	28	1.19	31	0	29	0	35	0	35
86			min	-460.867	32	-0.394	34	-0.704	33	0	35	0	29	0	1
87		J	max	1395.953	30	0.591	28	1.19	31	0	29	7.852	31	2.6	34
88			min	-465.324	32	-0.394	34	-0.704	33	0	35	-4.648	33	-3.9	28
89	M23	I	max	1571.981	5	1.711	24	1.016	31	0	35	0	35	0	35
90			min	166.303	34	-1.708	26	-0.315	33	0	1	0	1	0	1
91		J	max	1564.552	5	1.711	24	1.016	31	0	35	6.704	31	11.276	26
92			min	161.845	34	-1.708	26	-0.315	33	0	1	-2.082	33	-11.29	24
93	M24	I	max	2045.302	31	0.731	24	0.527	35	0.002	28	0	35	0.001	28
94			min	-292.46	33	-0.732	26	-0.548	25	-0.001	34	0	1	-0.001	34
95		J	max	2037.873	31	0.731	24	0.527	35	0.002	28	3.476	35	4.832	26
96			min	-296.917	33	-0.732	26	-0.548	25	-0.001	34	-3.616	25	-4.826	24
97	M25	I	max	2724.337	5	1.126	28	0.638	35	0	35	0	35	0	35
98			min	179.687	35	-0.672	34	-0.641	25	0	1	0	1	0	1
99		J	max	2716.908	5	1.126	28	0.638	35	0	35	4.214	35	4.434	34
100			min	175.23	35	-0.672	34	-0.641	25	0	1	-4.231	25	-7.434	28
101	M26	I	max	811.54	29	1.416	29	0	29	0.039	28	0	35	0	35
102			min	-459.833	35	0	2	0	27	-0.005	34	0	1	0	1
103		J	max	807.801	29	0	2	0	29	0.039	28	0	35	0	35
104			min	-462.076	35	-1.416	27	0	27	-0.005	34	0	1	0	1
105	M27	I	max	804.937	29	1.416	30	0	30	0.009	34	0	35	0	35
106			min	-463.701	35	0	2	0	27	-0.014	28	0	1	0	1
107		J	max	801.199	29	0	2	0	30	0.009	34	0	35	0	35
108			min	-465.944	35	-1.416	29	0	27	-0.014	28	0	1	0	1
109	M28	I	max	1145.123	31	1.902	25	0.287	29	0.008	34	-0.118	35	1.219	25
110			min	-458.303	33	0.079	2	-0.06	27	-0.024	28	-2.175	29	-0.105	2
111		J	max	1148.861	31	0.079	2	0.287	29	0.008	34	0	35	0	35
112			min	-456.06	33	-1.169	27	-0.06	27	-0.024	28	0	1	0	1
113	M29	I	max	1459.286	28	0.176	33	0.4	32	0.002	24	0.001	24	0	35
114			min	-447.034	34	-0.62	31	-1.458	30	-0.002	30	-0.002	30	0	1
115		J	max	1451.857	28	0.176	33	0.4	32	0.002	24	2.638	32	4.092	31
116			min	-451.491	34	-0.62	31	-1.458	30	-0.002	30	-9.622	30	-1.161	33
117	M30	I	max	854.175	5	0.633	30	0.637	35	0	35	0	35	0	35
118			min	98.326	22	-0.275	32	-1.545	29	0	1	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
119		J	max	846.746	5	0.633	30	0.637	35	0	35	4.206	35	1.817	32
120			min	93.869	22	-0.275	32	-1.545	29	0	1	-10.194	29	-4.176	30
121	M31	I	max	36.014	33	1.381	24	30.929	5	0.019	32	0	35	0	35
122			min	-123.918	31	-1.359	34	4.125	33	-0.039	30	0	1	0	1
123		J	max	36.014	33	1.381	24	24.04	2	0.019	32	130.844	5	6.661	34
124			min	-123.918	31	-1.359	34	-1.572	25	-0.039	30	7.787	33	-6.769	24
125	M32	I	max	75.938	35	35.639	35	766.858	5	0.079	30	0	35	0	35
126			min	-94.001	25	-35.639	25	78.272	20	-0.059	32	0	1	0	1
127		J	max	75.938	35	35.633	33	-78.266	35	0.079	30	0	35	0	35
128			min	-94.001	25	-35.633	27	-766.754	3	-0.059	32	0	1	0	1
129	M33	I	max	134.49	31	35.639	35	766.869	5	0.028	32	0	35	0	35
130			min	-69.236	33	-35.639	25	78.272	20	-0.049	30	0	1	0	1
131		J	max	155.774	30	35.633	33	-78.266	35	0.028	32	0	35	0	35
132			min	-97.12	32	-35.633	27	-766.745	3	-0.049	30	0	1	0	1
133	M34	I	max	38.518	31	35.238	35	758.994	5	0.068	25	0	35	0	35
134			min	-26.03	33	-35.238	25	77.843	20	-0.027	31	0	1	0	1
135		J	max	56.876	30	35.464	33	-78.085	35	0.068	25	0	35	0	35
136			min	-50.369	32	-35.464	27	-763.429	3	-0.027	31	0	1	0	1
137	M35	I	max	12.096	25	1.405	24	30.941	5	0.043	27	0	35	0	35
138			min	-10.258	35	-1.301	34	4.125	32	-0.04	33	0	1	0	1
139		J	max	12.096	25	1.405	24	24.051	2	0.043	27	130.902	5	6.377	34
140			min	-10.258	35	-1.301	34	-1.571	24	-0.04	33	7.789	32	-6.887	24
141	M36	I	max	9.752	33	1.343	28	31.02	5	0.081	30	0	35	0	35
142			min	-17.1	31	-1.178	34	4.131	22	-0.064	32	0	1	0	1
143		J	max	9.752	33	1.343	28	24.122	2	0.081	30	131.289	5	5.772	34
144			min	-17.1	31	-1.178	34	-1.562	10	-0.064	32	7.818	22	-6.58	28
145	M37	I	max	1587.638	5	1.272	28	0.285	35	0	35	0	35	0	35
146			min	165.205	32	-1.157	34	-0.983	29	0	1	0	1	0	1
147		J	max	1580.209	5	1.272	28	0.285	35	0	35	1.88	35	7.638	34
148			min	160.748	32	-1.157	34	-0.983	29	0	1	-6.487	29	-8.395	28
149	M38	I	max	15.059	29	1.346	24	30.92	5	0.061	30	0	35	0	35
150			min	-8.204	35	-1.316	34	4.129	35	-0.047	32	0	1	0	1
151		J	max	15.059	29	1.346	24	24.031	2	0.061	30	130.798	5	6.45	34
152			min	-8.204	35	-1.316	34	-1.568	27	-0.047	32	7.808	35	-6.598	24
153	M39	I	max	208.681	28	35.639	35	766.858	5	0.037	27	0	35	0	35
154			min	-144.435	34	-35.639	25	78.272	20	-0.035	33	0	1	0	1
155		J	max	155.227	28	35.633	33	-78.266	35	0.037	27	0	35	0	35
156			min	-73.163	34	-35.633	27	-766.754	3	-0.035	33	0	1	0	1
157	M40	I	max	109.941	31	126.458	30	895.787	5	0.091	22	29.576	22	186.769	10
158			min	-84.639	33	-98.369	32	8.88	22	-0.525	16	-298.707	16	-185.477	8
159		J	max	109.791	31	126.363	30	892.589	5	0.091	22	30.453	22	176.879	10
160			min	-84.44	33	-98.241	32	8.611	22	-0.525	16	-209.647	16	-177.412	8
161	M41	I	max	1071.824	30	0.595	28	0.346	34	0.001	35	0.006	30	0.003	32
162			min	-368.389	32	-0.389	34	-0.949	28	-0.003	29	-0.003	32	-0.004	30
163		J	max	1064.395	30	0.595	28	0.346	34	0.001	35	2.284	34	2.563	34
164			min	-372.846	32	-0.389	34	-0.949	28	-0.003	29	-6.265	28	-3.928	28
165	M42	I	max	1584.702	5	1.622	24	0.318	35	0	35	0	35	0	35
166			min	168.138	34	-1.579	34	-1.053	29	0	1	0	1	0	1
167		J	max	1577.273	5	1.622	24	0.318	35	0	35	2.097	35	10.42	34
168			min	163.68	34	-1.579	34	-1.053	29	0	1	-6.948	29	-10.703	24
169	M43	I	max	74.356	22	232.269	18	12.529	35	1.066	20	0	35	0	35
170			min	-283.426	16	-13.83	20	-12.774	25	-2.41	18	0	1	0	1
171		J	max	60.271	22	220.429	5	12.529	35	1.066	20	16.242	35	10.695	20
172			min	-269.991	16	-2.669	20	-12.774	25	-2.41	18	-16.56	25	-293.429	18
173	M44	I	max	81.085	22	123.962	18	12.753	27	2.283	18	0	35	0	35

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
174			min	-200.614	16	-19.043	20	-12.559	33	-1.094	20	0	1	0	1
175		J	max	67	22	112.112	18	12.753	27	2.283	18	16.533	27	17.453	20
176			min	-187.179	16	-7.883	20	-12.559	33	-1.094	20	-16.282	33	-153.022	18
177	M45	I	max	67.776	22	143.13	18	14.105	35	-0.045	35	3.472	5	10.688	20
178			min	-207.206	16	-12.33	20	-17.531	29	-1.777	3	-0.184	33	-293.471	18
179		J	max	64.017	10	-3.935	34	5.035	21	-0.045	35	1.525	21	32.633	20
180			min	-58.395	20	-60.685	28	-10.101	19	-1.777	3	-5.99	19	-242.102	18
181	M46	I	max	74.547	22	35.016	18	8.013	19	1.485	5	1.097	35	17.46	20
182			min	-123.667	16	-18.627	8	-1.712	21	0.026	33	-4.069	29	-152.981	18
183		J	max	60.379	22	27.113	2	10.112	17	1.485	5	5.995	17	32.891	20
184			min	-110.139	16	-11.484	24	-5.046	23	0.026	33	-1.532	23	-190.752	18
185	M47	I	max	193.136	18	-18.733	35	24.938	25	-0.119	23	15.374	35	32.898	20
186			min	-48.131	20	-240.48	3	-23.678	35	-2.45	3	-16.48	29	-190.686	18
187		J	max	183.611	18	-13.886	20	24.938	25	-0.119	23	16.124	25	167.157	16
188			min	-31.562	20	-242.88	3	-23.678	35	-2.45	3	-15.455	35	-14.816	22
189	M48	I	max	261.869	18	-22.362	32	23.735	33	2.096	5	16.442	31	32.625	20
190			min	-42.476	20	-323.215	3	-24.886	27	0.093	21	-15.411	33	-242.168	18
191		J	max	252.344	18	-19.403	20	23.735	33	2.096	5	15.492	33	219.99	16
192			min	-25.906	20	-325.615	3	-24.886	27	0.093	21	-16.091	27	-11.785	22
193	M49	I	max	187.064	18	-18.724	20	26.836	29	3.742	5	15.143	35	167.225	16
194			min	-27.465	20	-254.085	3	-23.471	35	0.118	35	-16.068	25	-14.812	22
195		J	max	177.694	18	-7.989	20	26.836	29	3.742	5	18.884	29	473.781	5
196			min	-11.224	20	-260.294	18	-23.471	35	0.118	35	-15.024	35	43.378	35
197	M50	I	max	254.559	18	-24.333	20	23.544	33	-0.138	33	16.03	27	219.922	16
198			min	-21.898	20	-337.929	3	-26.777	31	-4.033	3	-15.19	33	-11.788	22
199		J	max	245.188	18	-13.598	20	23.544	33	-0.138	33	15.071	33	635.507	5
200			min	-5.657	20	-340.329	3	-26.777	31	-4.033	3	-18.847	31	53.601	22
201	M51	I	max	41.605	22	97.303	18	24.813	19	-0.158	33	11.425	21	159.924	28
202			min	-164.798	16	-9.256	20	-20.529	21	-4.005	3	-16.691	31	16.67	34
203		J	max	27.776	22	85.93	18	23.534	31	-0.158	33	13.429	31	76.465	16
204			min	-151.647	16	1.268	20	-17.583	33	-4.005	3	-11.319	33	-22.993	22
205	M52	I	max	39.959	22	100.459	18	20.539	23	3.846	5	16.671	29	252.245	5
206			min	-182.028	16	-8.951	20	-24.813	17	0.147	35	-11.431	23	23.232	22
207		J	max	26.131	22	89.086	18	17.625	35	3.846	5	11.345	35	161.344	16
208			min	-168.877	16	1.573	20	-23.503	29	0.147	35	-13.409	29	-18.142	22
209	M53	I	max	31.629	22	75.379	18	18.705	27	0.019	23	11.752	33	76.487	16
210			min	-145.72	16	-5.283	20	-18.052	33	-0.046	17	-12.177	27	-22.992	22
211		J	max	17.461	22	66.742	5	18.705	27	0.019	23	12.177	27	39.604	20
212			min	-132.192	16	4.227	32	-18.052	33	-0.046	17	-11.751	33	-62.569	18
213	M54	I	max	29.98	22	78.12	18	18.115	35	0.02	23	12.123	25	161.322	16
214			min	-163.009	16	-5.013	20	-18.622	25	-0.039	17	-11.793	35	-18.143	22
215		J	max	15.812	22	69.691	5	18.115	35	0.02	23	11.793	35	80.197	16
216			min	-149.481	16	4.417	32	-18.622	25	-0.039	17	-12.122	25	-36.07	22
217	M55	I	max	31.652	35	57.985	5	22.495	31	3.329	5	11.593	33	39.605	20
218			min	-133.558	29	-1.041	32	-17.733	33	0.115	33	-13.2	31	-62.568	18
219		J	max	32.853	35	61.532	16	22.495	31	3.329	5	16.087	31	31.128	20
220			min	-131.557	29	-13.322	10	-17.733	33	0.115	33	-11.495	33	-125.85	18
221	M56	I	max	26.216	33	60.886	5	17.801	35	-0.11	35	13.184	29	80.196	16
222			min	-148.082	31	-0.853	32	-22.469	29	-3.285	3	-11.636	35	-36.071	22
223		J	max	27.416	33	64.32	16	17.801	35	-0.11	35	11.54	35	41.32	8
224			min	-146.081	31	-13.023	10	-22.469	29	-3.285	3	-16.07	29	-50.348	18
225	M57	I	max	221.243	31	-12.965	20	14.753	29	0.113	29	17.289	35	31.126	20
226			min	-20.508	33	-318.059	3	-13.034	35	-0.091	35	-19.391	29	-125.868	18
227		J	max	314.99	31	-7.955	20	23.695	25	0.113	29	0.312	25	315.246	5
228			min	-14.002	33	-437.128	3	-23.059	35	-0.091	35	-0.307	35	25.889	35

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
229	M58	I	max	200.433	29	-12.667	20	13.703	33	0.174	29	19.645	31	41.323	8
230			min	-18.326	35	-314.441	3	-15.307	31	-0.087	35	-17.54	33	-50.33	18
231		J	max	202.434	29	-1.293	20	13.703	33	0.174	29	0.302	33	384.263	5
232			min	-17.125	35	-318.978	18	-15.307	31	-0.087	35	-0.308	27	30.203	22
233	M59	I	max	16.305	29	6.01	25	-7.106	33	0.049	31	10.143	27	11.369	33
234			min	-13.937	35	-5.993	27	-105.241	3	-0.004	33	-9.116	33	-12.538	31
235		J	max	7.034	29	6.01	25	104.914	5	0.049	31	10.636	25	12.128	35
236			min	-1.576	35	-5.993	27	7.102	35	-0.004	33	-9.575	35	-13.226	29
237	M60	I	max	22.037	25	13.861	26	-19.402	35	0.073	31	16.846	29	12.694	35
238			min	-21.752	35	-13.861	32	-341.449	3	-0.002	33	-10.257	35	-14.452	29
239		J	max	21.807	27	13.859	24	341.418	5	0.073	31	16.808	31	12.779	33
240			min	-21.535	33	-13.859	34	19.388	33	-0.002	33	-10.322	33	-14.504	31
241	M61	I	max	3.22	5	12.084	27	2.985	35	0.072	31	19.906	25	23.5	35
242			min	0.078	33	-12.114	25	-21.307	25	-0.001	33	-19.595	35	-27.033	29
243		J	max	3.22	5	12.084	27	21.288	27	0.072	31	19.868	27	23.569	33
244			min	0.078	33	-12.114	25	-3.01	33	-0.001	33	-19.645	33	-26.934	31
245	M62	I	max	46.965	25	23.066	26	-36.756	35	0.045	5	14.977	5	4.331	35
246			min	-44.246	35	-23.046	32	-560.446	3	0	33	0.865	35	-8.694	29
247		J	max	28.931	27	23.08	24	560.53	5	0.045	5	15.144	5	4.398	33
248			min	-26.209	33	-23.059	34	36.736	33	0	33	0.825	33	-8.501	31
249	M63	I	max	-0.43	34	9.149	25	0.554	33	0.023	31	15.109	27	17.77	33
250			min	-7.996	3	-9.189	27	-18.893	27	0	33	-14.714	33	-20.859	31
251		J	max	-0.43	34	9.149	25	18.868	25	0.023	31	15.058	25	17.827	35
252			min	-7.996	3	-9.189	27	-0.573	35	0	33	-14.752	35	-20.769	29
253	M64	I	max	6.896	5	9.17	25	0.725	33	0.002	31	15.487	27	17.857	33
254			min	0.314	35	-9.216	27	-19.066	27	0	33	-15.036	33	-20.202	31
255		J	max	6.896	5	9.17	25	19.036	25	0.002	31	15.426	25	17.928	35
256			min	0.314	35	-9.216	27	-0.748	35	0	33	-15.083	35	-20.115	29
257	M65	I	max	31.205	33	19.947	34	-30.366	23	0	33	12.758	17	5.43	23
258			min	-30.71	27	-19.95	24	-486.371	3	-0.019	3	-4.168	23	-10.578	17
259		J	max	32.03	35	19.911	32	485.541	5	0	33	12.821	19	5.43	21
260			min	-31.57	25	-19.914	26	30.323	21	-0.019	3	-4.16	21	-10.519	19
261	M66	I	max	1314.084	5	0	35	0	35	0	35	0	35	0	35
262			min	74.693	20	0	1	0	1	0	1	0	1	0	1
263		J	max	1310.37	5	0	35	0	35	0	35	0	35	0	35
264			min	72.464	20	0	1	0	1	0	1	0	1	0	1
265	M67	I	max	1168.103	5	0	35	0	35	0	35	0	35	0	35
266			min	64.071	20	0	1	0	1	0	1	0	1	0	1
267		J	max	1164.388	5	0	35	0	35	0	35	0	35	0	35
268			min	61.842	20	0	1	0	1	0	1	0	1	0	1
269	M68	I	max	44.654	31	20.322	16	43.514	10	0.387	28	178.515	16	112.244	8
270			min	-37.449	33	-19.188	10	-73.753	16	-0.114	34	-39.296	22	-111.484	10
271		J	max	44.654	31	55.442	8	-8.217	22	0.387	28	8.211	22	0.08	22
272			min	-37.449	33	-55.188	10	-153.928	16	-0.114	34	-163.008	16	-0.081	8
273	M69	I	max	36.5	32	33.729	33	-38.725	35	0.036	30	0	35	0	35
274			min	-45.273	30	-33.729	27	-666.838	3	-0.028	32	0	1	0	1
275		J	max	26.643	34	33.599	35	664.3	5	0.036	30	0	35	0	35
276			min	-38.373	28	-33.599	25	38.587	20	-0.028	32	0	1	0	1
277	M70	I	max	34.877	32	33.73	33	-38.727	35	0.014	32	0	35	0	35
278			min	-62.838	16	-33.73	27	-666.865	3	-0.025	30	0	1	0	1
279		J	max	34.607	22	33.598	35	664.27	5	0.014	32	0	35	0	35
280			min	-62.838	16	-33.598	25	38.585	20	-0.025	30	0	1	0	1
281	M71	I	max	70.176	22	33.897	33	-38.906	35	0.359	18	0	35	0	35
282			min	-112.686	16	-33.897	27	-670.147	3	-0.018	20	0	1	0	1
283		J	max	70.176	22	34.001	35	672.18	5	0.359	18	0	35	0	35

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
284			min	-112.686	16	-34.001	25	39.017	20	-0.018	20	0	1	0	1
285	M72	I	max	37.944	32	33.722	33	-38.718	35	0.022	27	0	35	0	35
286			min	-42.942	30	-33.722	27	-666.699	3	-0.02	33	0	1	0	1
287		J	max	26	34	33.606	35	664.438	5	0.022	27	0	35	0	35
288			min	-34.166	28	-33.606	25	38.594	20	-0.02	33	0	1	0	1
289	M73	I	max	15.831	35	66.611	34	-78.238	35	0.019	32	130.861	5	6.661	34
290			min	-108.362	29	-67.687	24	-1308.523	3	-0.039	30	7.829	35	-6.769	24
291		J	max	15.831	35	66.611	34	-78.342	35	0.019	32	0	35	0	35
292			min	-108.362	29	-67.687	24	-1308.695	3	-0.039	30	0	1	0	1
293	M74	I	max	57.526	27	63.773	34	-78.241	34	0.043	27	130.873	5	6.377	34
294			min	-55.692	33	-68.869	24	-1308.641	3	-0.04	33	7.829	34	-6.887	24
295		J	max	57.526	27	63.773	34	-78.345	34	0.043	27	0	35	0	35
296			min	-55.692	33	-68.869	24	-1308.813	3	-0.04	33	0	1	0	1
297	M75	I	max	56.561	35	57.72	34	-78.67	32	0.081	30	131.656	5	5.772	34
298			min	-58.45	25	-65.804	28	-1316.478	3	-0.064	32	7.872	32	-6.58	28
299		J	max	56.561	35	57.72	34	-78.774	32	0.081	30	0	35	0	35
300			min	-58.45	25	-65.804	28	-1316.651	3	-0.064	32	0	1	0	1
301	M76	I	max	59.871	27	64.495	34	-78.201	33	0.061	30	130.796	5	6.45	34
302			min	-56.706	33	-65.976	24	-1307.871	3	-0.047	32	7.825	33	-6.598	24
303		J	max	59.871	27	64.495	34	-78.304	33	0.061	30	0	35	0	35
304			min	-56.706	33	-65.976	24	-1308.044	3	-0.047	32	0	1	0	1
305	M77	I	max	84.368	31	165.343	22	256.337	16	0.091	22	30.503	22	176.879	10
306			min	-50.543	33	-168.466	8	-30.291	22	-0.525	16	-209.341	16	-177.412	8
307		J	max	79.157	31	142.543	22	153.763	16	0.091	22	183.146	16	121.014	8
308			min	-43.594	33	-145.666	8	-38	22	-0.525	16	-34.205	22	-115.727	22
309	M78	I	max	18.451	30	0	35	4.313	31	0.077	30	0	35	0	35
310			min	-2.597	32	0	1	0	2	-0.051	32	0	1	0	1
311		J	max	18.451	30	0	35	0	2	0.077	30	0	35	0	35
312			min	-2.597	32	0	1	-4.313	1	-0.051	32	0	1	0	1
313	M79	I	max	59.412	32	34.319	35	678.433	5	0.001	33	0	35	0	35
314			min	-63.362	26	-34.319	25	39.358	20	-0.001	31	0	1	0	1
315		J	max	6.562	34	34.603	33	-39.662	35	0.001	33	0	35	0	35
316			min	-17.173	28	-34.603	27	-684.015	3	-0.001	31	0	1	0	1
317	M80	I	max	73.888	33	36.238	33	778.621	5	0.001	30	0	35	0	35
318			min	-87.02	31	-36.238	27	78.913	20	-0.001	32	0	1	0	1
319		J	max	73.888	33	36.241	35	-78.917	35	0.001	30	0	35	0	35
320			min	-87.02	31	-36.241	25	-778.681	3	-0.001	32	0	1	0	1
321	M81	I	max	792.653	31	1.243	32	0.354	29	0.004	25	0	35	0.003	25
322			min	-235.79	33	-1.485	30	-0.153	35	-0.004	31	0	1	-0.003	31
323		J	max	785.224	31	1.243	32	0.354	29	0.004	25	2.338	29	9.799	30
324			min	-240.247	33	-1.485	30	-0.153	35	-0.004	31	-1.008	35	-8.202	32
325	M82	I	max	1195.874	29	0.537	24	0.41	27	0.001	30	0	35	0.001	32
326			min	-206.897	35	-0.905	30	-0.394	33	-0.001	32	0	1	-0.001	30
327		J	max	1188.445	29	0.537	24	0.41	27	0.001	30	2.704	27	5.971	30
328			min	-211.354	35	-0.905	30	-0.394	33	-0.001	32	-2.602	33	-3.544	24
329	M83	I	max	32.095	35	30	20	66.813	31	0.057	35	0	35	0	35
330			min	-121.775	29	-30	10	0	2	-0.066	25	0	1	0	1
331		J	max	32.095	35	30	22	0	2	0.057	35	0	35	0	35
332			min	-121.775	29	-30	8	-66.813	1	-0.066	25	0	1	0	1
333	M84	I	max	47.202	24	34.33	35	678.66	5	0.01	29	0	35	0	35
334			min	-46.995	34	-34.33	25	39.37	20	-0.006	35	0	1	0	1
335		J	max	21.966	26	34.593	33	-39.651	35	0.01	29	0	35	0	35
336			min	-21.781	32	-34.593	27	-683.811	3	-0.006	35	0	1	0	1
337	M85	I	max	42.738	25	36.246	33	778.783	5	0.029	25	0	35	0	35
338			min	-39.13	35	-36.246	27	78.922	20	-0.062	31	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
339		J	max	43.912	24	36.231	35	-78.907	35	0.029	25	0	35	0	35
340			min	-40.311	34	-36.231	25	-778.496	3	-0.062	31	0	1	0	1
341	M86	I	max	892.987	31	1.155	27	0.036	27	0.005	31	0	35	0	35
342			min	-348.064	33	-0.049	2	-0.113	29	-0.004	25	0	1	0	1
343		J	max	896.725	31	-0.049	2	0.036	27	0.005	31	-0.236	35	1.327	25
344			min	-345.821	33	-1.892	25	-0.113	29	-0.004	25	-1.682	29	0.017	2
345	M87	I	max	1583.961	5	0.024	32	0.992	31	0	35	0	35	0	35
346			min	167.026	34	-0.177	30	-0.267	33	0	1	0	1	0	1
347		J	max	1576.532	5	0.024	32	0.992	31	0	35	6.547	31	1.169	30
348			min	162.568	34	-0.177	30	-0.267	33	0	1	-1.761	33	-0.162	32
349	M88	I	max	2709.334	5	0.716	32	0.547	35	0	35	0	35	0	35
350			min	179.196	35	-1.199	30	-0.556	25	0	1	0	1	0	1
351		J	max	2701.905	5	0.716	32	0.547	35	0	35	3.612	35	7.914	30
352			min	174.739	35	-1.199	30	-0.556	25	0	1	-3.673	25	-4.725	32
353	M89	I	max	657.384	29	1.416	15	0	29	0.001	32	0	35	0	35
354			min	-344.283	35	0	2	0	27	-0.001	30	0	1	0	1
355		J	max	653.646	29	0	2	0	29	0.001	32	0	35	0	35
356			min	-346.526	35	-1.416	16	0	27	-0.001	30	0	1	0	1
357	M90	I	max	650.656	29	1.416	31	0	29	0.009	32	0	35	0	35
358			min	-348.136	35	0	2	0	27	-0.01	26	0	1	0	1
359		J	max	646.918	29	0	2	0	29	0.009	32	0	35	0	35
360			min	-350.379	35	-1.416	7	0	27	-0.01	26	0	1	0	1
361	M91	I	max	898.672	31	1.892	25	0.111	29	0.005	31	-0.24	35	1.331	25
362			min	-344.634	33	0.049	2	-0.035	27	-0.005	25	-1.678	29	0.018	2
363		J	max	902.41	31	0.049	2	0.111	29	0.005	31	0	35	0	35
364			min	-342.391	33	-1.155	27	-0.035	27	-0.005	25	0	1	0	1
365	M92	I	max	9.283	33	1.786	8	30.971	5	0.046	32	0	35	0	35
366			min	-16.13	31	-1.748	22	4.163	33	-0.06	30	0	1	0	1
367		J	max	9.283	33	1.786	8	24.03	2	0.046	32	131.051	5	8.566	22
368			min	-16.13	31	-1.748	22	-1.512	25	-0.06	30	7.976	33	-8.751	8
369	M93	I	max	116.784	28	35.639	35	766.869	5	0.002	27	0	35	0	35
370			min	-86.129	34	-35.639	25	78.272	20	-0.002	33	0	1	0	1
371		J	max	102.125	31	35.633	33	-78.266	35	0.002	27	0	35	0	35
372			min	-66.739	33	-35.633	27	-766.745	3	-0.002	33	0	1	0	1
373	M94	I	max	862.718	5	1.187	24	0.558	35	0	35	0	35	0	35
374			min	124.847	32	-1.177	34	-0.598	29	0	1	0	1	0	1
375		J	max	855.289	5	1.187	24	0.558	35	0	35	3.683	35	7.768	34
376			min	120.39	32	-1.177	34	-0.598	29	0	1	-3.947	29	-7.836	24
377	M95	I	max	46.482	31	26.817	8	80.059	5	0.06	25	0	35	0	35
378			min	-39.278	33	-26.795	22	12.035	2	-0.072	31	0	1	0	1
379		J	max	46.482	31	32.011	10	12.035	2	0.06	25	71.455	5	12.685	20
380			min	-39.278	33	-31.989	20	-62.929	8	-0.072	31	7.488	20	-12.794	10
381	M96	I	max	53.399	28	35.639	35	766.869	5	0.065	31	0	35	0	35
382			min	-50.121	34	-35.639	25	78.272	20	-0.024	33	0	1	0	1
383		J	max	33.943	31	35.633	33	-78.266	35	0.065	31	0	35	0	35
384			min	-24.2	33	-35.633	27	-766.745	3	-0.024	33	0	1	0	1
385	M97	I	max	1589.559	5	0.153	33	0.272	35	0	35	0	35	0	35
386			min	168.599	34	-0.419	31	-0.985	29	0	1	0	1	0	1
387		J	max	1582.13	5	0.153	33	0.272	35	0	35	1.793	35	2.767	31
388			min	164.141	34	-0.419	31	-0.985	29	0	1	-6.5	29	-1.012	33
389	M98	I	max	70.027	20	33.678	33	-38.672	35	0.001	27	0	35	0	35
390			min	-73.012	10	-33.678	27	-665.854	3	0	2	0	1	0	1
391		J	max	70.027	20	33.649	35	665.282	5	0.001	27	0	35	0	35
392			min	-73.012	10	-33.649	25	38.64	20	0	2	0	1	0	1
393	M99	I	max	158.842	20	33.73	33	-38.727	35	0.262	27	0	35	0	35

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
394			min	-159.958	10	-33.73	27	-666.865	3	-0.173	2	0	1	0	1
395		J	max	158.842	20	33.598	35	664.27	5	0.262	27	0	35	0	35
396			min	-159.958	10	-33.598	25	38.585	20	-0.173	2	0	1	0	1
397	M100	I	max	56.599	35	85.663	22	-78.273	20	0.046	32	130.971	5	8.566	22
398			min	-58.593	25	-87.513	8	-1309.628	3	-0.06	30	7.832	20	-8.751	8
399		J	max	56.599	35	85.663	22	-78.377	20	0.046	32	0	35	0	35
400			min	-58.593	25	-87.513	8	-1309.801	3	-0.06	30	0	1	0	1
401	M101	I	max	75.677	27	126.853	20	-76.341	33	0.06	25	71.535	5	12.685	20
402			min	-72.876	33	-127.941	10	-715.261	3	-0.072	31	7.639	33	-12.794	10
403		J	max	75.677	27	126.853	20	-76.445	33	0.06	25	0	35	0	35
404			min	-72.876	33	-127.941	10	-715.434	3	-0.072	31	0	1	0	1
405	M102	I	max	915.076	31	1.416	5	0	33	0.008	30	0	35	0	35
406			min	-515.242	33	0	2	0	3	-0.006	24	0	1	0	1
407		J	max	918.815	31	0	2	0	33	0.008	30	0	35	0	35
408			min	-512.999	33	-1.416	16	0	3	-0.006	24	0	1	0	1
409	M103	I	max	1456.639	29	1.264	5	0.058	25	0.004	32	0	35	0	35
410			min	-450.544	35	0.032	2	-0.828	31	-0.007	30	0	1	0	1
411		J	max	1452.9	29	0.032	2	0.058	25	0.004	32	-0.148	33	1.312	24
412			min	-452.787	35	-1.894	27	-0.828	31	-0.007	30	-2.909	31	-1.941	31
413	M104	I	max	1450.871	29	1.894	27	0.83	31	0.005	32	-0.148	33	1.315	24
414			min	-454.024	35	-0.032	2	-0.058	25	-0.009	30	-2.913	31	-1.945	31
415		J	max	1447.133	29	-0.032	2	0.83	31	0.005	32	0	35	0	35
416			min	-456.266	35	-1.264	3	-0.058	25	-0.009	30	0	1	0	1
417	M105	I	max	920.89	31	1.416	16	0	33	0.001	34	0	35	0	35
418			min	-511.365	33	0	2	0	16	-0.002	28	0	1	0	1
419		J	max	924.628	31	0	2	0	33	0.001	34	0	35	0	35
420			min	-509.122	33	-1.416	3	0	16	-0.002	28	0	1	0	1
421	M106	I	max	1244.306	28	1.195	24	0.226	28	0.004	32	0	35	0	35
422			min	-659.759	34	0.009	2	-0.242	30	-0.004	26	0	1	0	1
423		J	max	1240.567	28	0.009	2	0.226	28	0.004	32	0.165	32	1.6	28
424			min	-662.002	34	-1.905	26	-0.242	30	-0.004	26	-1.825	26	-0.051	2
425	M107	I	max	1135.28	30	1.416	19	0	30	0	35	0	35	0	35
426			min	-670.168	32	0	2	0	32	0	29	0	1	0	1
427		J	max	1131.542	30	0	2	0	30	0	35	0	35	0	35
428			min	-672.411	32	-1.416	26	0	32	0	29	0	1	0	1
429	M108	I	max	1117.062	28	1.416	28	0	29	0.003	30	0	35	0	35
430			min	-737.898	34	0	2	0	34	-0.002	24	0	1	0	1
431		J	max	1113.324	28	0	2	0	29	0.003	30	0	35	0	35
432			min	-740.141	34	-1.416	12	0	34	-0.002	24	0	1	0	1
433	M109	I	max	1164.431	30	1.176	26	0.113	26	0.01	30	0	35	0	35
434			min	-654.435	32	-0.024	2	-0.264	28	-0.005	32	0	1	0	1
435		J	max	1160.693	30	-0.024	2	0.113	26	0.01	30	0.046	34	1.255	27
436			min	-656.678	32	-1.883	24	-0.264	28	-0.005	32	-1.943	28	-0.065	2
437	M110	I	max	1128.719	30	1.416	31	0	34	0.006	32	0	35	0	35
438			min	-674.119	32	0	2	0	32	-0.016	30	0	1	0	1
439		J	max	1124.981	30	0	2	0	34	0.006	32	0	35	0	35
440			min	-676.362	32	-1.416	30	0	32	-0.016	30	0	1	0	1
441	M111	I	max	1238.688	28	1.905	26	0.239	30	0.006	31	0.161	32	1.604	28
442			min	-663.357	34	-0.009	2	-0.228	28	-0.004	33	-1.82	26	-0.043	2
443		J	max	1234.95	28	-0.009	2	0.239	30	0.006	31	0	35	0	35
444			min	-665.6	34	-1.195	24	-0.228	28	-0.004	33	0	1	0	1
445	M112	I	max	1158.773	30	1.883	24	0.262	28	0.013	30	0.047	34	1.257	27
446			min	-658.045	32	0.024	2	-0.113	26	-0.006	32	-1.937	28	-0.057	2
447		J	max	1155.035	30	0.024	2	0.262	28	0.013	30	0	35	0	35
448			min	-660.288	32	-1.176	26	-0.113	26	-0.006	32	0	1	0	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
449	M113	I	max	1110.457	28	1.416	30	0	24	0.002	33	0	35	0	35
450			min	-741.841	34	0	2	0	34	-0.011	31	0	1	0	1
451		J	max	1106.719	28	0	2	0	24	0.002	33	0	35	0	35
452			min	-744.084	34	-1.416	24	0	34	-0.011	31	0	1	0	1

Envelope Member 2nd/1st Moment Ratios

	Member		y-y Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC	z-z Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC
1	M1	max	-0.012	1.105	6.6	9	0.092	1.012	6.6	32
2		min	5.404	0.994	6.6	28	0.05	0.995	6.6	35
3	M2	max	-0.237	1.265	6.6	16	0.221	1.008	6.6	20
4		min	0.213	0.844	6.6	28	-0.126	0.974	6.6	8
5	M3	max	-0.002	2.182	6.6	12	-0.078	1.016	6.6	11
6		min	0.006	0.802	6.6	16	0.45	0.893	6.6	28
7	M4	max	0.139	1.124	6.6	2	0.068	1.677	6.6	30
8		min	0.282	0.952	6.6	10	-1.642	0.995	6.6	14
9	M5	max	5.391	1	2.5	31	NC	NC		
10		min	3.234	1	2.5	33	NC	NC		
11	M6	max	853.217	1	2.5	5	43.162	1	2.5	33
12		min	49.479	1	2.5	20	-43.162	1	2.5	27
13	M7	max	853.013	1	2.5	5	43.152	1	2.5	33
14		min	82.447	1	2.5	1	-43.152	1	2.5	27
15	M8	max	865.883	1	2.5	5	43.807	1	2.5	33
16		min	50.17	1	2.5	20	-43.807	1	2.5	27
17	M9	max	922.937	1	2.5	31	45.309	1	2.5	35
18		min	164.424	1	2.5	1	-45.309	1	2.5	25
19	M10	max	809.62	1	2.5	2	45.339	1	2.5	35
20		min	98.687	1	2.5	20	-45.339	1	2.5	25
21	M11	max	960.801	1	2.5	5	44.662	1	2.5	35
22		min	97.961	1	2.5	20	-33.496	1	2.5	29
23	M12	max	5.391	1	2.5	28	NC	NC		
24		min	3.234	1	2.5	34	NC	NC		
25	M13	max	5.391	1	2.5	31	NC	NC		
26		min	3.234	1	2.5	20	NC	NC		
27	M14	max	-29.705	1.011	3	22	23.339	1.126	3	28
28		min	23.595	0.992	1.344	10	-0.134	0.702	3	1
29	M15	max	-0.004	1.081	6.6	10	0.691	1.05	6.6	18
30		min	3.708	0.997	6.6	29	-8.61	1.002	6.6	32
31	M16	max	-0.11	1.036	6.6	30	0.668	1.01	6.6	10
32		min	0.08	0.99	6.6	14	-1.839	0.987	6.6	30
33	M17	max	5.391	1	2.5	31	NC	NC		
34		min	3.234	1	2.5	20	NC	NC		
35	M18	max	852.845	1	2.5	5	43.143	1	2.5	33
36		min	275.035	1	2.5	6	-43.143	1	2.5	27
37	M19	max	922.937	1	2.5	31	45.309	1	2.5	35
38		min	164.424	1	2.5	1	-45.309	1	2.5	25
39	M20	max	-0.589	1.315	4.14	2	-0.814	3.928	1.854	29
40		min	-0.526	0.992	4.14	23	-0.129	-0.304	4.14	2
41	M21	max	-14.821	1.033	0	10	-55	1.077	2	28
42		min	-16.977	0.986	2	34	-2.639	0.77	0	2
43	M22	max	6.56	1.006	6.6	28	0.338	1.056	6.6	30
44		min	0.716	0.972	6.6	29	-0.844	0.989	6.6	14
45	M23	max	-0.042	1.01	6.6	8	-0.008	1.206	6.6	4
46		min	3.535	0.996	6.6	29	0.001	0.04	6.6	29
47	M24	max	0.291	1.028	6.6	28	-0.017	2.031	6.6	15
48		min	-0.037	0.925	6.6	12	-0.005	-0.631	6.6	19

Envelope Member 2nd/1st Moment Ratios (Continued)

	Member		y-y Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC	z-z Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC
49	M25	max	0.003	1.082	6.6	22	0.904	1.008	6.6	10
50		min	0	0.468	6.6	10	-0.292	0.898	6.6	30
51	M26	max	1.036	1	2.07	29	-0.622	1	2.07	35
52		min	1.036	1	2.07	30	-1.036	1	2.07	30
53	M27	max	1.036	1	2.07	31	-1.036	1	2.07	31
54		min	0.622	1	2.07	33	-0.622	1	2.07	33
55	M28	max	-0.565	1.333	0	2	-0.803	3.823	2.329	29
56		min	-0.523	0.992	0	23	-0.105	-0.235	0	2
57	M29	max	0.037	1.034	6.6	11	-0.019	1.018	6.6	21
58		min	-5.156	0.993	6.6	28	1.862	0.995	6.6	29
59	M30	max	0.091	1.287	6.6	10	0.044	1.022	6.6	11
60		min	-0.413	0.987	6.6	34	-1.093	0.974	6.6	28
61	M31	max	8.288	1	3.981	32	-0.216	1.049	4.9	31
62		min	8.22	1	3.981	33	0	0.622	4.9	23
63	M32	max	759.988	1	2.5	15	44.568	1	2.5	33
64		min	97.86	1	2.5	20	-44.568	1	2.5	27
65	M33	max	958.98	1	2.5	5	44.569	1	2.5	33
66		min	97.862	1	2.5	20	-33.427	1	2.5	31
67	M34	max	789.443	1	2.5	2	44.209	1	2.5	33
68		min	97.476	1	2.5	20	-44.209	1	2.5	27
69	M35	max	13.746	1	3.981	27	0.597	1.036	4.9	18
70		min	8.221	1	3.981	32	-0.052	0.999	4.9	35
71	M36	max	8.273	1	3.981	35	0.834	1.045	4.9	18
72		min	8.25	1	3.981	34	-6.269	1.001	4.9	32
73	M37	max	0.069	1.011	6.6	24	-4.215	1.017	6.6	16
74		min	-0.016	0.994	6.6	20	-0.222	0.891	6.6	14
75	M38	max	13.739	1	3.981	27	-0.231	1.031	4.9	31
76		min	8.241	1	3.981	32	0.016	0.996	4.9	23
77	M39	max	97.86	1	2.5	35	44.568	1	2.5	33
78		min	163.101	1	2.5	1	-33.426	1	2.5	31
79	M40	max	13.899	1.033	0.1	10	-3.619	1.91	0.1	31
80		min	-3.173	0.953	0	34	1.127	0.926	0	25
81	M41	max	0.497	1.008	6.6	10	0.269	1.074	6.6	30
82		min	-2.607	0.994	6.6	30	-0.046	0.986	6.6	25
83	M42	max	0.062	1.008	6.6	24	-0.5	1.044	6.6	17
84		min	-3.684	0.996	6.6	31	0.735	0.992	6.6	29
85	M43	max	5.274	1.055	1.296	19	10.695	1.004	1.296	20
86		min	-0.174	0.999	1.296	10	-1.458	0.945	1.296	8
87	M44	max	-5.259	1.056	1.296	17	0.47	1.06	1.296	32
88		min	0.955	0.997	1.296	30	-6.757	0.992	1.296	24
89	M45	max	-3.915	1.071	1.302	29	26.431	1.007	1.302	8
90		min	-5.461	0.956	1.302	31	-13.248	0.996	0	24
91	M46	max	3.964	1.067	1.302	31	27.723	1.005	1.302	8
92		min	5.407	0.954	1.302	29	-99.011	0.992	1.302	12
93	M47	max	-3.274	1.067	1.302	19	167.157	1.011	1.302	16
94		min	-0.594	1	0	10	-152.883	0.998	0	29
95	M48	max	3.288	1.069	1.302	17	219.99	1.009	1.302	16
96		min	4.126	0.999	0	30	-171.347	1	0	15
97	M49	max	4.697	1.114	0	19	463.239	1.005	1.285	16
98		min	0.848	1	1.285	24	44.72	0.993	1.285	22
99	M50	max	-4.717	1.116	0	17	618.184	1.005	1.285	16
100		min	-6.672	0.999	1.285	30	53.601	0.994	1.285	22
101	M51	max	-6.514	1.264	1.28	29	159.067	1.008	0	16
102		min	-6.659	1	0	30	35.815	0.994	0	10
103	M52	max	6.531	1.268	1.28	31	248.101	1.006	0	16

Envelope Member 2nd/1st Moment Ratios (Continued)

	Member		y-y Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC	z-z Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC
104		min	0.508	1	0	32	23.232	0.993	0	22
105	M53	max	-9.922	1.163	1.302	29	76.487	1.016	0	16
106		min	-0.018	0.9	0	2	-9.042	0.999	1.302	27
107	M54	max	9.942	1.165	1.302	31	161.322	1.009	0	16
108		min	0.131	1	0	32	14.057	0.993	0	26
109	M55	max	7.073	1.243	0	29	1.266	1.021	0	9
110		min	4.967	0.873	1.302	17	-56.613	0.984	1.302	12
111	M56	max	-7.092	1.246	0	31	58.808	1.019	0	28
112		min	-4.966	0.873	1.302	19	2.62	1.001	0	35
113	M57	max	2.665	1.528	0.19	19	-33.01	1.005	0	22
114		min	-0.317	1	0	32	48.864	0.996	1.302	10
115	M58	max	-2.668	1.529	0.19	17	371.298	1.004	1.302	16
116		min	4.361	0.999	0	30	30.203	0.995	1.302	22
117	M59	max	-13.364	1.003	1.208	33	-12.538	1.048	0	31
118		min	-10.684	1	2	22	-2.168	0.997	4	14
119	M60	max	-25.441	1.001	2.458	33	-14.452	1.021	0	29
120		min	-24.217	1	2	22	-4.419	1	4	18
121	M61	max	-17.561	1.032	3.333	29	-27.033	1.038	0	29
122		min	-1.162	0.998	0	2	-1.079	1	0	10
123	M62	max	-35.842	1	2	22	-6.132	1.049	0	19
124		min	-59.732	1	2	25	-8.501	0.897	4	31
125	M63	max	-15.528	1.068	3.125	31	-20.859	1.116	0	31
126		min	-12.019	1	2	18	-5.211	0.999	0	30
127	M64	max	-15.381	1.07	3.125	31	-9.792	1.128	4	17
128		min	-6.727	1	2	22	-4.552	0.999	0	30
129	M65	max	-31.934	1	1.875	35	-9.69	1.059	0	29
130		min	-447.042	1	2	31	-0.793	1	0	10
131	M66	max	NC	NC			NC	NC		
132		min	NC	NC			NC	NC		
133	M67	max	NC	NC			NC	NC		
134		min	NC	NC			NC	NC		
135	M68	max	-24.341	1.021	0	10	0.514	1.121	0	4
136		min	-14.56	0.993	3	34	-0.569	0.92	0	11
137	M69	max	-830.931	1	2.5	5	42.028	1	2.5	35
138		min	-80.44	1	2.5	1	-31.521	1	2.5	29
139	M70	max	-784.067	1	2.5	31	42.03	1	2.5	35
140		min	-750.531	1	2.5	2	-31.522	1	2.5	29
141	M71	max	-794.879	1	2.5	31	42.613	1	2.5	35
142		min	-760.953	1	2.5	2	-42.613	1	2.5	25
143	M72	max	-831.098	1	2.5	5	42.036	1	2.5	35
144		min	-80.455	1	2.5	1	-42.036	1	2.5	25
145	M73	max	7.829	1	0	32	-0.216	1.049	0	31
146		min	7.83	1	0	33	0	0.622	0	23
147	M74	max	13.054	1	0	27	0.597	1.036	0	18
148		min	7.83	1	0	21	-0.052	0.999	0	35
149	M75	max	7.875	1	0	35	0.834	1.045	0	18
150		min	124.247	1	0	16	-6.269	1.001	0	32
151	M76	max	13.047	1	0	27	-0.231	1.031	0	31
152		min	7.826	1	0	32	0.016	0.996	0	23
153	M77	max	-5.672	1.025	1.9	34	3.672	1.309	1.9	2
154		min	-15.799	0.987	0	26	-176.88	1.002	0	20
155	M78	max	5.391	1	2.5	31	NC	NC		
156		min	3.234	1	2.5	20	NC	NC		
157	M79	max	852.904	1	2.5	5	43.146	1	2.5	33
158		min	275.054	1	2.5	6	-43.146	1	2.5	27

Envelope Member 2nd/1st Moment Ratios (Continued)

	Member		y-y Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC	z-z Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC
159	M80	max	809.62	1	2.5	2	45.339	1	2.5	35
160		min	164.478	1	2.5	1	-34.004	1	2.5	29
161	M81	max	-0.026	1.015	6.6	32	-3.092	1.036	6.6	28
162		min	0.029	0.982	6.6	24	0.783	0.927	6.6	12
163	M82	max	-0.034	1.021	6.6	10	-0.031	1.017	6.6	4
164		min	0.168	0.987	6.6	30	0.649	0.939	6.6	28
165	M83	max	83.516	1	2.5	31	37.5	1	2.5	22
166		min	50.109	1	2.5	20	-37.5	1	2.5	8
167	M84	max	853.178	1	2.5	5	43.16	1	2.5	33
168		min	49.477	1	2.5	20	-43.16	1	2.5	27
169	M85	max	98.654	1	2.5	35	45.309	1	2.5	35
170		min	164.424	1	2.5	1	-45.309	1	2.5	25
171	M86	max	-0.268	1.231	4.14	2	0.429	1.543	4.14	35
172		min	-0.987	0.989	4.14	31	0.017	0.081	4.14	2
173	M87	max	-0.01	1.021	6.6	22	-0.06	1.004	6.6	33
174		min	0.011	0.973	6.6	10	0.005	0.931	6.6	25
175	M88	max	-0.016	1.068	6.6	14	-0.065	1.022	6.6	11
176		min	0.009	0.922	6.6	18	0.311	0.841	6.6	28
177	M89	max	1.036	1	2.07	15	-0.622	1	2.07	33
178		min	1.036	1	2.07	25	-1.036	1	2.07	25
179	M90	max	0.622	1	2.07	35	-0.622	1	2.07	35
180		min	0.622	1	2.07	33	-0.622	1	2.07	33
181	M91	max	-0.267	1.232	0	2	0.866	1.232	0	27
182		min	-0.988	0.989	0	31	0.018	0.084	0	2
183	M92	max	8.389	1	4.032	35	-0.323	1.01	4.9	31
184		min	13.968	1	4.032	8	3.435	0.999	4.9	30
185	M93	max	795.876	1	2.5	2	44.569	1	2.5	33
186		min	163.103	1	2.5	1	-44.569	1	2.5	27
187	M94	max	1.673	1.012	6.6	31	-0.885	1.084	6.6	16
188		min	-0.343	0.988	6.6	15	0.294	0.938	6.6	15
189	M95	max	117.685	1	2.96	31	-0.211	1.009	4.9	31
190		min	86.57	1	2.552	9	2.768	0.998	4.9	30
191	M96	max	97.862	1	2.5	35	44.569	1	2.5	33
192		min	163.103	1	2.5	1	-44.569	1	2.5	27
193	M97	max	0.01	1.018	6.6	20	-0.038	1.011	6.6	20
194		min	-0.026	0.988	6.6	8	0.044	0.988	6.6	9
195	M98	max	-782.867	1	2.5	31	41.965	1	2.5	35
196		min	-267.672	1	2.5	6	-41.965	1	2.5	25
197	M99	max	-784.069	1	2.5	31	42.03	1	2.5	35
198		min	-268.077	1	2.5	6	-42.03	1	2.5	25
199	M100	max	7.835	1	0	35	-0.323	1.01	0	31
200		min	13.054	1	0	8	3.435	0.999	0	30
201	M101	max	12.757	1.002	0	27	-0.211	1.009	0	31
202		min	7.639	1	0	33	2.768	0.998	0	30
203	M102	max	0.622	1	2.07	33	-1.036	1	2.07	18
204		min	0.622	1	2.07	35	-0.622	1	2.07	35
205	M103	max	-1.026	1.793	4.14	2	-1.557	56.085	2.544	18
206		min	-0.761	0.955	4.14	26	-1.612	-20.146	2.588	19
207	M104	max	-1.031	1.787	0	2	-1.559	50.949	1.596	18
208		min	-0.764	0.955	0	26	-1.614	-20.837	1.553	19
209	M105	max	1.036	1	2.07	31	-1.036	1	2.07	16
210		min	1.036	1	2.07	25	-1.036	1	2.07	15
211	M106	max	-1.79	1.192	4.14	30	-0.051	3.457	4.14	2
212		min	-0.001	-0.095	4.14	2	0.586	-65.717	4.14	32
213	M107	max	1.036	1	2.07	24	-1.036	1	2.07	24

Envelope Member 2nd/1st Moment Ratios (Continued)

	Member			y-y Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC	z-z Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC
214		min		1.036	1	2.07	7	-1.036	1	2.07	12
215	M108	max		1.036	1	2.07	26	-1.036	1	2.07	24
216		min		0.622	1	2.07	32	-0.622	1	2.07	34
217	M109	max		-0.204	1.359	4.14	2	0.57	7.195	4.14	34
218		min		-0.463	0.98	4.14	22	-0.065	-0.455	4.14	2
219	M110	max		0.622	1	2.07	34	-1.036	1	2.07	31
220		min		1.036	1	2.07	30	-1.036	1	2.07	28
221	M111	max		-1.779	1.194	0	30	-0.043	6.235	0	2
222		min		0.007	0.485	0	2	0.583	-46.073	0	32
223	M112	max		-0.197	1.378	0	2	0.57	7.126	0	34
224		min		-0.462	0.98	0	22	-0.057	-0.382	0	2
225	M113	max		0.622	1	2.07	34	-0.622	1	2.07	34
226		min		1.036	1	2.07	28	-1.036	1	2.07	24

Envelope Member Section Stresses

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1	M1	1	max	1.6	28	0	35	0.003	30	0	35	0	35	0	26	0	32
2			min	-0.486	34	-0.001	29	-0.001	32	0	1	0	1	0	32	0	26
3		2	max	1.598	28	0	35	0.003	30	0	35	0.009	29	0.051	30	0.013	32
4			min	-0.487	34	-0.001	29	-0.001	32	-0.009	29	0	35	-0.013	32	-0.051	30
5		3	max	1.596	28	0	35	0.003	30	-0.001	35	0.018	29	0.102	30	0.025	32
6			min	-0.489	34	-0.001	29	-0.001	32	-0.018	29	0.001	35	-0.025	32	-0.102	30
7		4	max	1.594	28	0	35	0.003	30	-0.001	35	0.028	29	0.153	30	0.038	32
8			min	-0.49	34	-0.001	29	-0.001	32	-0.028	29	0.001	35	-0.038	32	-0.153	30
9		5	max	1.592	28	0	35	0.003	30	-0.001	35	0.037	29	0.204	30	0.051	32
10			min	-0.491	34	-0.001	29	-0.001	32	-0.037	29	0.001	35	-0.051	32	-0.204	30
11	M2	1	max	0.897	31	0.002	30	0.001	2	0	34	0	28	0	35	0	35
12			min	-0.355	33	-0.001	32	-0.001	8	0	28	0	34	0	1	0	1
13		2	max	0.895	31	0.002	30	0.001	2	0.039	30	0.012	32	0.016	2	0.018	8
14			min	-0.356	33	-0.001	32	-0.001	8	-0.012	32	-0.039	30	-0.018	8	-0.016	2
15		3	max	0.893	31	0.002	30	0.001	2	0.078	30	0.023	32	0.032	2	0.036	8
16			min	-0.357	33	-0.001	32	-0.001	8	-0.023	32	-0.078	30	-0.036	8	-0.032	2
17		4	max	0.892	31	0.002	30	0.001	2	0.118	30	0.034	32	0.048	2	0.054	8
18			min	-0.358	33	-0.001	32	-0.001	8	-0.034	32	-0.118	30	-0.054	8	-0.048	2
19		5	max	0.89	31	0.002	30	0.001	2	0.157	30	0.046	32	0.064	2	0.072	8
20			min	-0.36	33	-0.001	32	-0.001	8	-0.046	32	-0.157	30	-0.072	8	-0.064	2
21	M3	1	max	2.883	5	0.001	32	0.001	35	0	35	0	35	0	35	0	35
22			min	0.188	33	-0.002	30	-0.001	25	0	1	0	1	0	1	0	1
23		2	max	2.881	5	0.001	32	0.001	35	0.02	32	0.035	30	0.023	35	0.023	25
24			min	0.187	33	-0.002	30	-0.001	25	-0.035	30	-0.02	32	-0.023	25	-0.023	35
25		3	max	2.879	5	0.001	32	0.001	35	0.04	32	0.07	30	0.046	35	0.047	25
26			min	0.186	33	-0.002	30	-0.001	25	-0.07	30	-0.04	32	-0.047	25	-0.046	35
27		4	max	2.877	5	0.001	32	0.001	35	0.06	32	0.105	30	0.069	35	0.07	25
28			min	0.184	33	-0.002	30	-0.001	25	-0.105	30	-0.06	32	-0.07	25	-0.069	35
29		5	max	2.875	5	0.001	32	0.001	35	0.081	32	0.14	30	0.092	35	0.094	25
30			min	0.183	33	-0.002	30	-0.001	25	-0.14	30	-0.081	32	-0.094	25	-0.092	35
31	M4	1	max	1.746	29	0.002	31	0.001	27	0	34	0.001	28	0	35	0	35
32			min	-0.303	35	-0.001	33	0	33	-0.001	28	0	34	0	1	0	1
33		2	max	1.744	29	0.002	31	0.001	27	0.032	31	0.022	33	0.025	27	0.006	33
34			min	-0.304	35	-0.001	33	0	33	-0.022	33	-0.032	31	-0.006	33	-0.025	27
35		3	max	1.742	29	0.002	31	0.001	27	0.064	31	0.044	33	0.05	27	0.012	33
36			min	-0.305	35	-0.001	33	0	33	-0.044	33	-0.064	31	-0.012	33	-0.05	27
37		4	max	1.74	29	0.002	31	0.001	27	0.095	31	0.065	33	0.074	27	0.018	33
38			min	-0.307	35	-0.001	33	0	33	-0.065	33	-0.095	31	-0.018	33	-0.074	27
39		5	max	1.738	29	0.002	31	0.001	27	0.127	31	0.087	33	0.099	27	0.024	33

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
40			min	-0.308	35	-0.001	33	0	33	-0.087	33	-0.127	31	-0.024	33	-0.099	27
41	M5	1	max	0.039	29	0	35	0.005	31	0	35	0	35	0	35	0	35
42			min	-0.016	35	0	1	0	2	0	1	0	1	0	1	0	1
43		2	max	0.039	29	0	35	0.003	31	0	35	0	35	0.073	31	0	2
44			min	-0.016	35	0	1	0	2	0	1	0	1	0	2	-0.073	3
45		3	max	0.039	29	0	35	0	35	0	35	0	35	0.097	31	0	2
46			min	-0.016	35	0	1	0	1	0	1	0	1	0	2	-0.097	3
47		4	max	0.039	29	0	35	0	2	0	35	0	35	0.073	31	0	2
48			min	-0.016	35	0	1	-0.003	1	0	1	0	1	0	2	-0.073	3
49		5	max	0.039	29	0	35	0	2	0	35	0	35	0	35	0	35
50			min	-0.016	35	0	1	-0.005	1	0	1	0	1	0	1	0	1
51	M6	1	max	0.026	24	0.082	35	0.814	5	0	35	0	35	0	35	0	35
52			min	-0.025	34	-0.082	25	0.047	20	0	1	0	1	0	1	0	1
53		2	max	0.015	28	0.041	35	0.41	5	0.393	35	1.438	33	11.413	5	-0.662	35
54			min	-0.013	34	-0.041	25	0.024	20	-0.393	25	-1.438	27	0.662	20	-11.413	3
55		3	max	0.012	18	0.001	35	0.007	5	0.528	35	1.931	33	15.332	5	-0.889	35
56			min	-0.009	20	-0.001	25	0	20	-0.528	25	-1.931	27	0.889	20	-15.332	3
57		4	max	0.013	30	0.042	33	-0.024	35	0.397	35	1.452	33	11.524	5	-0.668	35
58			min	-0.01	32	-0.042	27	-0.415	3	-0.397	25	-1.452	27	0.668	20	-11.524	3
59		5	max	0.024	26	0.083	33	-0.048	35	0	35	0	35	0	35	0	35
60			min	-0.022	32	-0.083	27	-0.821	3	0	1	0	1	0	1	0	1
61	M7	1	max	0.019	32	0.082	35	0.814	5	0	35	0	35	0	35	0	35
62			min	-0.035	30	-0.082	25	0.047	20	0	1	0	1	0	1	0	1
63		2	max	0.014	22	0.041	35	0.409	5	0.393	35	1.437	33	11.41	5	-0.662	35
64			min	-0.032	16	-0.041	25	0.024	20	-0.393	25	-1.437	27	0.662	20	-11.41	3
65		3	max	0.014	22	0.001	35	0.007	5	0.528	35	1.931	33	15.328	5	-0.889	35
66			min	-0.032	16	-0.001	25	0	20	-0.528	25	-1.931	27	0.889	20	-15.328	3
67		4	max	0.014	22	0.042	33	-0.024	35	0.397	35	1.452	33	11.523	5	-0.668	35
68			min	-0.032	16	-0.042	27	-0.415	3	-0.397	25	-1.452	27	0.668	20	-11.523	3
69		5	max	0.024	34	0.083	33	-0.048	35	0	35	0	35	0	35	0	35
70			min	-0.039	28	-0.083	27	-0.821	3	0	1	0	1	0	1	0	1
71	M8	1	max	0.029	10	0.084	35	0.831	5	0	35	0	35	0	35	0	35
72			min	-0.028	20	-0.084	25	0.048	20	0	1	0	1	0	1	0	1
73		2	max	0.029	10	0.042	35	0.415	5	0.4	35	1.464	33	11.619	5	-0.673	35
74			min	-0.028	20	-0.042	25	0.024	20	-0.4	25	-1.464	27	0.673	20	-11.619	3
75		3	max	0.029	10	0	35	0.005	5	0.536	35	1.96	33	15.559	5	-0.902	35
76			min	-0.028	20	0	25	0	20	-0.536	25	-1.96	27	0.902	20	-15.559	3
77		4	max	0.033	26	0.043	33	-0.024	35	0.402	35	1.47	33	11.665	5	-0.676	35
78			min	-0.031	32	-0.043	27	-0.421	3	-0.402	25	-1.47	27	0.676	20	-11.665	3
79		5	max	0.045	26	0.084	33	-0.048	35	0	35	0	35	0	35	0	35
80			min	-0.043	32	-0.084	27	-0.829	3	0	1	0	1	0	1	0	1
81	M9	1	max	0.035	33	0.087	33	0.935	5	0	35	0	35	0	35	0	35
82			min	-0.167	31	-0.087	27	0.095	20	0	1	0	1	0	1	0	1
83		2	max	0.035	33	0.044	33	0.467	5	0.416	33	1.521	35	13.121	5	-1.33	35
84			min	-0.167	31	-0.044	27	0.047	20	-0.416	27	-1.521	25	1.33	20	-13.121	3
85		3	max	0.035	33	0	35	0	35	0.554	33	2.027	35	17.493	5	-1.773	35
86			min	-0.167	31	0	25	0	3	-0.554	27	-2.027	25	1.773	20	-17.493	3
87		4	max	0.035	33	0.043	35	-0.047	35	0.416	33	1.52	35	13.116	5	-1.329	35
88			min	-0.167	31	-0.043	25	-0.467	3	-0.416	27	-1.52	25	1.329	20	-13.116	3
89		5	max	0.035	33	0.087	35	-0.095	35	0	35	0	35	0	35	0	35
90			min	-0.167	31	-0.087	25	-0.934	3	0	1	0	1	0	1	0	1
91	M10	1	max	0.09	26	0.087	33	0.934	5	0	35	0	35	0	35	0	35
92			min	-0.089	32	-0.087	27	0.095	20	0	1	0	1	0	1	0	1
93		2	max	0.077	26	0.044	33	0.468	5	0.416	33	1.522	35	13.128	5	-1.33	35
94			min	-0.076	32	-0.044	27	0.047	20	-0.416	27	-1.522	25	1.33	20	-13.128	3

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
95		3	max	0.065	26	0	35	0	35	0.555	33	2.029	35	17.504	5	-1.773	35
96			min	-0.066	28	0	1	0	1	-0.555	27	-2.029	25	1.773	20	-17.504	3
97		4	max	0.059	25	0.044	35	-0.047	35	0.416	33	1.522	35	13.128	5	-1.33	35
98			min	-0.062	31	-0.044	25	-0.468	3	-0.416	27	-1.522	25	1.33	20	-13.128	3
99		5	max	0.059	25	0.087	35	-0.095	35	0	35	0	35	0	35	0	35
100			min	-0.062	31	-0.087	25	-0.934	3	0	1	0	1	0	1	0	1
101	M11	1	max	0.043	26	0.086	33	0.922	5	0	35	0	35	0	35	0	35
102			min	-0.041	32	-0.086	27	0.094	20	0	1	0	1	0	1	0	1
103		2	max	0.032	25	0.043	33	0.461	5	0.41	33	1.499	35	12.949	5	-1.32	35
104			min	-0.03	35	-0.043	27	0.047	20	-0.41	27	-1.499	25	1.32	20	-12.949	3
105		3	max	0.032	25	0	35	0	35	0.546	33	1.998	35	17.265	5	-1.76	35
106			min	-0.03	35	0	1	0	1	-0.546	27	-1.998	25	1.76	20	-17.265	3
107		4	max	0.032	25	0.043	35	-0.047	35	0.41	33	1.499	35	12.949	5	-1.32	35
108			min	-0.03	35	-0.043	25	-0.461	3	-0.41	27	-1.499	25	1.32	20	-12.949	3
109		5	max	0.032	25	0.086	35	-0.094	35	0	35	0	35	0	35	0	35
110			min	-0.03	35	-0.086	25	-0.922	3	0	1	0	1	0	1	0	1
111	M12	1	max	0.007	31	0	35	0.005	31	0	35	0	35	0	35	0	35
112			min	-0.007	33	0	1	0	2	0	1	0	1	0	1	0	1
113		2	max	0.007	31	0	35	0.003	31	0	35	0	35	0.073	31	0	2
114			min	-0.007	33	0	1	0	2	0	1	0	1	0	2	-0.073	3
115		3	max	0.007	31	0	35	0	35	0	35	0	35	0.097	31	0	2
116			min	-0.007	33	0	1	0	1	0	1	0	1	0	2	-0.097	3
117		4	max	0.007	31	0	35	0	2	0	35	0	35	0.073	31	0	2
118			min	-0.007	33	0	1	-0.003	1	0	1	0	1	0	2	-0.073	3
119		5	max	0.007	31	0	35	0	2	0	35	0	35	0	35	0	35
120			min	-0.007	33	0	1	-0.005	1	0	1	0	1	0	1	0	1
121	M13	1	max	0.019	16	0	35	0.005	31	0	35	0	35	0	35	0	35
122			min	-0.005	22	0	1	0	2	0	1	0	1	0	1	0	1
123		2	max	0.019	16	0	35	0.003	31	0	35	0	35	0.073	31	0	2
124			min	-0.005	22	0	1	0	2	0	1	0	1	0	2	-0.073	3
125		3	max	0.019	16	0	35	0	35	0	35	0	35	0.097	31	0	2
126			min	-0.005	22	0	1	0	1	0	1	0	1	0	2	-0.097	3
127		4	max	0.019	16	0	35	0	2	0	35	0	35	0.073	31	0	2
128			min	-0.005	22	0	1	-0.003	1	0	1	0	1	0	2	-0.073	3
129		5	max	0.019	16	0	35	0	2	0	35	0	35	0	35	0	35
130			min	-0.005	22	0	1	-0.005	1	0	1	0	1	0	1	0	1
131	M14	1	max	0.055	35	0.134	10	0.15	16	0	35	0	35	0	35	0	35
132			min	-0.125	29	-0.134	8	0.017	22	0	1	0	1	0	1	0	1
133		2	max	0.055	35	0.113	10	0.126	16	0.472	10	1.719	8	1.547	16	-0.11	22
134			min	-0.125	29	-0.112	8	0.003	22	-0.47	8	-1.725	10	0.11	22	-1.547	16
135		3	max	0.055	35	0.091	10	0.102	16	0.861	10	3.136	8	2.824	16	-0.057	22
136			min	-0.125	29	-0.091	8	-0.012	22	-0.857	8	-3.148	10	0.057	22	-2.824	16
137		4	max	0.055	35	0.069	10	0.078	16	1.167	10	4.25	8	3.831	16	0.157	22
138			min	-0.125	29	-0.069	8	-0.03	10	-1.162	8	-4.269	10	-0.157	22	-3.831	16
139		5	max	0.055	35	0.048	10	0.073	2	1.391	10	5.063	8	4.568	16	0.534	22
140			min	-0.125	29	-0.047	8	-0.054	10	-1.384	8	-5.088	10	-0.534	22	-4.568	16
141	M15	1	max	1.693	5	0.003	24	0.002	31	0	35	0	35	0	35	0	35
142			min	0.175	32	-0.003	34	-0.001	33	0	1	0	1	0	1	0	1
143		2	max	1.691	5	0.003	24	0.002	31	0.047	24	0.045	34	0.037	31	0.011	33
144			min	0.174	32	-0.003	34	-0.001	33	-0.045	34	-0.047	24	-0.011	33	-0.037	31
145		3	max	1.689	5	0.003	24	0.002	31	0.095	24	0.091	34	0.073	31	0.022	33
146			min	0.173	32	-0.003	34	-0.001	33	-0.091	34	-0.095	24	-0.022	33	-0.073	31
147		4	max	1.687	5	0.003	24	0.002	31	0.142	24	0.136	34	0.11	31	0.032	33
148			min	0.171	32	-0.003	34	-0.001	33	-0.136	34	-0.142	24	-0.032	33	-0.11	31
149		5	max	1.685	5	0.003	24	0.002	31	0.189	24	0.182	34	0.147	31	0.043	33

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
150			min	0.17	32	-0.003	34	-0.001	33	-0.182	34	-0.189	24	-0.043	33	-0.147	31
151	M16	1	max	2.885	5	0.002	28	0.001	35	0	35	0	35	0	35	0	35
152			min	0.189	33	-0.001	34	-0.001	25	0	1	0	1	0	1	0	1
153		2	max	2.883	5	0.002	28	0.001	35	0.04	28	0.018	34	0.021	35	0.022	25
154			min	0.187	33	-0.001	34	-0.001	25	-0.018	34	-0.04	28	-0.022	25	-0.021	35
155		3	max	2.881	5	0.002	28	0.001	35	0.08	28	0.036	34	0.043	35	0.043	25
156			min	0.186	33	-0.001	34	-0.001	25	-0.036	34	-0.08	28	-0.043	25	-0.043	35
157		4	max	2.879	5	0.002	28	0.001	35	0.12	28	0.054	34	0.064	35	0.065	25
158			min	0.185	33	-0.001	34	-0.001	25	-0.054	34	-0.12	28	-0.065	25	-0.064	35
159		5	max	2.877	5	0.002	28	0.001	35	0.16	28	0.072	34	0.085	35	0.086	25
160			min	0.184	33	-0.001	34	-0.001	25	-0.072	34	-0.16	28	-0.086	25	-0.085	35
161	M17	1	max	0.007	31	0	35	0.005	31	0	35	0	35	0	35	0	35
162			min	-0.005	33	0	1	0	2	0	1	0	1	0	1	0	1
163		2	max	0.007	31	0	35	0.003	31	0	35	0	35	0.073	31	0	2
164			min	-0.005	33	0	1	0	2	0	1	0	1	0	2	-0.073	3
165		3	max	0.007	31	0	35	0	35	0	35	0	35	0.097	31	0	2
166			min	-0.005	33	0	1	0	1	0	1	0	1	0	2	-0.097	3
167		4	max	0.007	31	0	35	0	2	0	35	0	35	0.073	31	0	2
168			min	-0.005	33	0	1	-0.003	1	0	1	0	1	0	2	-0.073	3
169		5	max	0.007	31	0	35	0	2	0	35	0	35	0	35	0	35
170			min	-0.005	33	0	1	-0.005	1	0	1	0	1	0	1	0	1
171	M18	1	max	0.027	32	0.082	35	0.814	5	0	35	0	35	0	35	0	35
172			min	-0.034	30	-0.082	25	0.047	20	0	1	0	1	0	1	0	1
173		2	max	0.016	32	0.041	35	0.409	5	0.393	35	1.437	33	11.41	5	-0.662	35
174			min	-0.025	30	-0.041	25	0.024	20	-0.393	25	-1.437	27	0.662	20	-11.41	3
175		3	max	0.005	35	0.001	35	0.007	5	0.528	35	1.931	33	15.325	5	-0.889	35
176			min	-0.017	29	-0.001	25	0	20	-0.528	25	-1.931	27	0.889	20	-15.325	3
177		4	max	0.006	34	0.042	33	-0.024	35	0.397	35	1.451	33	11.519	5	-0.668	35
178			min	-0.018	28	-0.042	27	-0.415	3	-0.397	25	-1.451	27	0.668	20	-11.519	3
179		5	max	0.017	34	0.083	33	-0.048	35	0	35	0	35	0	35	0	35
180			min	-0.027	28	-0.083	27	-0.821	3	0	1	0	1	0	1	0	1
181	M19	1	max	0.043	33	0.087	33	0.935	5	0	35	0	35	0	35	0	35
182			min	-0.068	31	-0.087	27	0.095	20	0	1	0	1	0	1	0	1
183		2	max	0.043	33	0.044	33	0.467	5	0.416	33	1.521	35	13.121	5	-1.33	35
184			min	-0.068	31	-0.044	27	0.047	20	-0.416	27	-1.521	25	1.33	20	-13.121	3
185		3	max	0.047	32	0	35	0	35	0.554	33	2.027	35	17.493	5	-1.773	35
186			min	-0.071	30	0	25	0	3	-0.554	27	-2.027	25	1.773	20	-17.493	3
187		4	max	0.059	32	0.043	35	-0.047	35	0.416	33	1.52	35	13.116	5	-1.329	35
188			min	-0.081	30	-0.043	25	-0.467	3	-0.416	27	-1.52	25	1.329	20	-13.116	3
189		5	max	0.072	32	0.087	35	-0.095	35	0	35	0	35	0	35	0	35
190			min	-0.09	30	-0.087	25	-0.934	3	0	1	0	1	0	1	0	1
191	M20	1	max	1.207	31	0.003	27	0	27	0	35	0	35	0	35	0	35
192			min	-0.489	33	0	2	-0.001	29	0	1	0	1	0	1	0	1
193		2	max	1.208	31	0.001	27	0	27	0.019	29	-0.001	2	0.038	27	0.011	2
194			min	-0.489	33	0	2	-0.001	29	0.001	2	-0.019	29	-0.009	2	-0.046	27
195		3	max	1.209	31	0	2	0	27	0.023	29	-0.002	2	0.045	27	0.021	2
196			min	-0.488	33	-0.001	25	-0.001	29	0.002	2	-0.023	29	-0.017	2	-0.055	27
197		4	max	1.21	31	0	2	0	27	0.012	29	0.004	33	0.022	35	0.063	29
198			min	-0.487	33	-0.003	25	-0.001	29	-0.004	33	-0.012	29	-0.051	29	-0.027	35
199		5	max	1.211	31	0	2	0	27	0.004	2	0.035	25	-0.007	35	0.159	29
200			min	-0.487	33	-0.005	25	-0.001	29	-0.035	25	-0.004	2	-0.129	29	0.009	35
201	M21	1	max	0.002	21	0.322	20	0.046	22	1.38	10	4.778	20	4.494	16	0.583	22
202			min	-0.07	19	-0.331	10	-0.354	16	-1.306	20	-5.05	10	-0.583	22	-4.494	16
203		2	max	0.002	21	0.336	20	0.043	22	0.519	10	1.712	20	1.69	16	0.25	22
204			min	-0.07	19	-0.345	10	-0.391	16	-0.468	20	-1.899	10	-0.25	22	-1.69	16

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
205		3	max	0.002	21	0.35	20	0.041	22	0.415	8	1.41	22	0.064	22	1.345	16
206			min	-0.07	19	-0.36	10	-0.419	16	-0.385	22	-1.518	8	-1.345	16	-0.064	22
207		4	max	0.002	21	0.365	20	0.039	22	1.323	8	4.806	22	0.362	22	4.597	16
208			min	-0.07	19	-0.374	10	-0.45	16	-1.314	22	-4.841	8	-4.597	16	-0.362	22
209		5	max	0.002	21	0.379	20	0.036	22	2.269	8	8.358	10	0.642	22	8.081	16
210			min	-0.07	19	-0.388	10	-0.481	16	-2.285	10	-8.299	8	-8.081	16	-0.642	22
211	M22	1	max	1.496	30	0.001	28	0.002	31	0	35	0	35	0	35	0	29
212			min	-0.491	32	-0.001	34	-0.001	33	0	1	0	1	0	29	0	35
213		2	max	1.494	30	0.001	28	0.002	31	0.021	28	0.014	34	0.043	31	0.025	33
214			min	-0.493	32	-0.001	34	-0.001	33	-0.014	34	-0.021	28	-0.025	33	-0.043	31
215		3	max	1.492	30	0.001	28	0.002	31	0.042	28	0.028	34	0.085	31	0.051	33
216			min	-0.494	32	-0.001	34	-0.001	33	-0.028	34	-0.042	28	-0.051	33	-0.085	31
217		4	max	1.49	30	0.001	28	0.002	31	0.064	28	0.042	34	0.128	31	0.076	33
218			min	-0.495	32	-0.001	34	-0.001	33	-0.042	34	-0.064	28	-0.076	33	-0.128	31
219		5	max	1.488	30	0.001	28	0.002	31	0.085	28	0.057	34	0.171	31	0.101	33
220			min	-0.496	32	-0.001	34	-0.001	33	-0.057	34	-0.085	28	-0.101	33	-0.171	31
221	M23	1	max	1.676	5	0.003	24	0.002	31	0	35	0	35	0	35	0	35
222			min	0.177	34	-0.003	26	-0.001	33	0	1	0	1	0	1	0	1
223		2	max	1.674	5	0.003	24	0.002	31	0.061	24	0.061	26	0.036	31	0.011	33
224			min	0.176	34	-0.003	26	-0.001	33	-0.061	26	-0.061	24	-0.011	33	-0.036	31
225		3	max	1.672	5	0.003	24	0.002	31	0.123	24	0.123	26	0.073	31	0.023	33
226			min	0.175	34	-0.003	26	-0.001	33	-0.123	26	-0.123	24	-0.023	33	-0.073	31
227		4	max	1.67	5	0.003	24	0.002	31	0.184	24	0.184	26	0.109	31	0.034	33
228			min	0.174	34	-0.003	26	-0.001	33	-0.184	26	-0.184	24	-0.034	33	-0.109	31
229		5	max	1.668	5	0.003	24	0.002	31	0.245	24	0.245	26	0.146	31	0.045	33
230			min	0.173	34	-0.003	26	-0.001	33	-0.245	26	-0.245	24	-0.045	33	-0.146	31
231	M24	1	max	2.18	31	0.001	24	0.001	35	0	34	0	28	0	35	0	35
232			min	-0.312	33	-0.001	26	-0.001	25	0	28	0	34	0	1	0	1
233		2	max	2.179	31	0.001	24	0.001	35	0.026	24	0.026	26	0.019	35	0.02	25
234			min	-0.313	33	-0.001	26	-0.001	25	-0.026	26	-0.026	24	-0.02	25	-0.019	35
235		3	max	2.177	31	0.001	24	0.001	35	0.052	24	0.053	26	0.038	35	0.039	25
236			min	-0.314	33	-0.001	26	-0.001	25	-0.053	26	-0.052	24	-0.039	25	-0.038	35
237		4	max	2.175	31	0.001	24	0.001	35	0.079	24	0.079	26	0.057	35	0.059	25
238			min	-0.315	33	-0.001	26	-0.001	25	-0.079	26	-0.079	24	-0.059	25	-0.057	35
239		5	max	2.173	31	0.001	24	0.001	35	0.105	24	0.105	26	0.076	35	0.079	25
240			min	-0.317	33	-0.001	26	-0.001	25	-0.105	26	-0.105	24	-0.079	25	-0.076	35
241	M25	1	max	2.904	5	0.002	28	0.001	35	0	35	0	35	0	35	0	35
242			min	0.192	35	-0.001	34	-0.001	25	0	1	0	1	0	1	0	1
243		2	max	2.902	5	0.002	28	0.001	35	0.04	28	0.024	34	0.023	35	0.023	25
244			min	0.19	35	-0.001	34	-0.001	25	-0.024	34	-0.04	28	-0.023	25	-0.023	35
245		3	max	2.9	5	0.002	28	0.001	35	0.081	28	0.048	34	0.046	35	0.046	25
246			min	0.189	35	-0.001	34	-0.001	25	-0.048	34	-0.081	28	-0.046	25	-0.046	35
247		4	max	2.898	5	0.002	28	0.001	35	0.121	28	0.072	34	0.069	35	0.069	25
248			min	0.188	35	-0.001	34	-0.001	25	-0.072	34	-0.121	28	-0.069	25	-0.069	35
249		5	max	2.896	5	0.002	28	0.001	35	0.162	28	0.096	34	0.092	35	0.092	25
250			min	0.187	35	-0.001	34	-0.001	25	-0.096	34	-0.162	28	-0.092	25	-0.092	35
251	M26	1	max	0.86	29	0.003	29	0	35	0	35	0	35	0	35	0	35
252			min	-0.487	35	0	2	0	1	0	1	0	1	0	1	0	1
253		2	max	0.859	29	0.002	29	0	35	0.023	29	0	2	0.046	29	0	2
254			min	-0.488	35	0	2	0	1	0	2	-0.023	29	0	2	-0.056	29
255		3	max	0.858	29	0	35	0	35	0.03	29	0	2	0.061	29	0	2
256			min	-0.488	35	0	1	0	1	0	2	-0.03	29	0	2	-0.075	29
257		4	max	0.857	29	0	2	0	35	0.023	29	0	2	0.046	29	0	2
258			min	-0.489	35	-0.002	27	0	1	0	2	-0.023	29	0	2	-0.056	29
259		5	max	0.856	29	0	2	0	35	0	35	0	35	0	35	0	35

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
260			min	-0.489	35	-0.003	27	0	1	0	1	0	1	0	1	0	1
261	M27	1	max	0.853	29	0.003	30	0	35	0	35	0	35	0	35	0	35
262			min	-0.491	35	0	2	0	1	0	1	0	1	0	1	0	1
263		2	max	0.852	29	0.002	30	0	35	0.023	27	0	2	0.046	30	0	2
264			min	-0.492	35	0	2	0	1	0	2	-0.023	27	0	2	-0.056	30
265		3	max	0.851	29	0	35	0	35	0.03	27	0	2	0.061	30	0	2
266			min	-0.492	35	0	1	0	1	0	2	-0.03	27	0	2	-0.075	30
267		4	max	0.85	29	0	2	0	35	0.023	27	0	2	0.046	30	0	2
268			min	-0.493	35	-0.002	29	0	1	0	2	-0.023	27	0	2	-0.056	30
269		5	max	0.849	29	0	2	0	35	0	35	0	35	0	35	0	35
270			min	-0.494	35	-0.003	29	0	1	0	1	0	1	0	1	0	1
271	M28	1	max	1.213	31	0.005	25	0.001	29	0.003	2	0.035	25	-0.007	35	0.157	29
272			min	-0.485	33	0	2	0	27	-0.035	25	-0.003	2	-0.128	29	0.009	35
273		2	max	1.214	31	0.003	25	0.001	29	0.012	29	0.004	33	0.022	35	0.062	29
274			min	-0.485	33	0	2	0	27	-0.004	33	-0.012	29	-0.05	29	-0.027	35
275		3	max	1.215	31	0.001	25	0.001	29	0.023	29	-0.002	2	0.045	27	0.02	2
276			min	-0.484	33	0	2	0	27	0.002	2	-0.023	29	-0.017	2	-0.055	27
277		4	max	1.216	31	0	2	0.001	29	0.019	29	-0.001	2	0.038	27	0.01	2
278			min	-0.484	33	-0.001	27	0	27	0.001	2	-0.019	29	-0.008	2	-0.046	27
279		5	max	1.217	31	0	2	0.001	29	0	35	0	35	0	35	0	35
280			min	-0.483	33	-0.003	27	0	27	0	1	0	1	0	1	0	1
281	M29	1	max	1.556	28	0	33	0.001	32	0	35	0	35	0	24	0	30
282			min	-0.477	34	-0.001	31	-0.003	30	0	1	0	1	0	30	0	24
283		2	max	1.554	28	0	33	0.001	32	0.006	33	0.022	31	0.014	32	0.052	30
284			min	-0.478	34	-0.001	31	-0.003	30	-0.022	31	-0.006	33	-0.052	30	-0.014	32
285		3	max	1.552	28	0	33	0.001	32	0.013	33	0.044	31	0.029	32	0.105	30
286			min	-0.479	34	-0.001	31	-0.003	30	-0.044	31	-0.013	33	-0.105	30	-0.029	32
287		4	max	1.55	28	0	33	0.001	32	0.019	33	0.067	31	0.043	32	0.157	30
288			min	-0.48	34	-0.001	31	-0.003	30	-0.067	31	-0.019	33	-0.157	30	-0.043	32
289		5	max	1.548	28	0	33	0.001	32	0.025	33	0.089	31	0.057	32	0.209	30
290			min	-0.481	34	-0.001	31	-0.003	30	-0.089	31	-0.025	33	-0.209	30	-0.057	32
291	M30	1	max	0.911	5	0.001	30	0.001	35	0	35	0	35	0	35	0	35
292			min	0.105	22	-0.001	32	-0.003	29	0	1	0	1	0	1	0	1
293		2	max	0.909	5	0.001	30	0.001	35	0.023	30	0.01	32	0.023	35	0.055	29
294			min	0.104	22	-0.001	32	-0.003	29	-0.01	32	-0.023	30	-0.055	29	-0.023	35
295		3	max	0.907	5	0.001	30	0.001	35	0.045	30	0.02	32	0.046	35	0.111	29
296			min	0.102	22	-0.001	32	-0.003	29	-0.02	32	-0.045	30	-0.111	29	-0.046	35
297		4	max	0.905	5	0.001	30	0.001	35	0.068	30	0.03	32	0.069	35	0.166	29
298			min	0.101	22	-0.001	32	-0.003	29	-0.03	32	-0.068	30	-0.166	29	-0.069	35
299		5	max	0.903	5	0.001	30	0.001	35	0.091	30	0.04	32	0.091	35	0.222	29
300			min	0.1	22	-0.001	32	-0.003	29	-0.04	32	-0.091	30	-0.222	29	-0.091	35
301	M31	1	max	0.025	33	0.003	24	0.037	5	0	35	0	35	0	35	0	35
302			min	-0.086	31	-0.003	34	0.005	33	0	1	0	1	0	1	0	1
303		2	max	0.025	33	0.003	24	0.035	5	0.021	24	0.075	34	0.658	5	-0.077	33
304			min	-0.086	31	-0.003	34	0.003	33	-0.02	34	-0.076	24	0.077	33	-0.658	3
305		3	max	0.025	33	0.003	24	0.032	5	0.041	24	0.149	34	1.269	5	-0.126	33
306			min	-0.086	31	-0.003	34	0.002	33	-0.041	34	-0.151	24	0.126	33	-1.269	3
307		4	max	0.025	33	0.003	24	0.03	5	0.062	24	0.224	34	1.833	5	-0.147	33
308			min	-0.086	31	-0.003	34	0	33	-0.061	34	-0.227	24	0.147	33	-1.833	3
309		5	max	0.025	33	0.003	24	0.029	2	0.083	24	0.298	34	2.351	5	-0.14	33
310			min	-0.086	31	-0.003	34	-0.002	25	-0.081	34	-0.303	24	0.14	33	-2.351	3
311	M32	1	max	0.053	35	0.086	35	0.92	5	0	35	0	35	0	35	0	35
312			min	-0.065	25	-0.086	25	0.094	20	0	1	0	1	0	1	0	1
313		2	max	0.053	35	0.043	35	0.46	5	0.409	35	1.496	33	12.924	5	-1.319	35
314			min	-0.065	25	-0.043	25	0.047	20	-0.409	25	-1.496	27	1.319	20	-12.924	3

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
315		3	max	0.053	35	0	35	0	35	0.545	35	1.994	33	17.232	5	-1.758	35
316			min	-0.065	25	0	1	0	1	-0.545	25	-1.994	27	1.758	20	-17.232	3
317		4	max	0.053	35	0.043	33	-0.047	35	0.409	35	1.496	33	12.924	5	-1.319	35
318			min	-0.065	25	-0.043	27	-0.46	3	-0.409	25	-1.496	27	1.319	20	-12.924	3
319		5	max	0.053	35	0.086	33	-0.094	35	0	35	0	35	0	35	0	35
320			min	-0.065	25	-0.086	27	-0.92	3	0	1	0	1	0	1	0	1
321	M33	1	max	0.094	31	0.086	35	0.92	5	0	35	0	35	0	35	0	35
322			min	-0.048	33	-0.086	25	0.094	20	0	1	0	1	0	1	0	1
323		2	max	0.094	31	0.043	35	0.46	5	0.409	35	1.496	33	12.924	5	-1.319	35
324			min	-0.048	33	-0.043	25	0.047	20	-0.409	25	-1.496	27	1.319	20	-12.924	3
325		3	max	0.094	31	0	35	0	35	0.545	35	1.994	33	17.232	5	-1.759	35
326			min	-0.048	33	0	1	0	3	-0.545	25	-1.994	27	1.759	20	-17.232	3
327		4	max	0.099	30	0.043	33	-0.047	35	0.409	35	1.496	33	12.924	5	-1.319	35
328			min	-0.055	32	-0.043	27	-0.46	3	-0.409	25	-1.496	27	1.319	20	-12.924	3
329		5	max	0.108	30	0.086	33	-0.094	35	0	35	0	35	0	35	0	35
330			min	-0.068	32	-0.086	27	-0.92	3	0	1	0	1	0	1	0	1
331	M34	1	max	0.027	31	0.085	35	0.911	5	0	35	0	35	0	35	0	35
332			min	-0.018	33	-0.085	25	0.093	20	0	1	0	1	0	1	0	1
333		2	max	0.027	31	0.042	35	0.457	5	0.405	35	1.481	33	12.808	5	-1.313	35
334			min	-0.018	33	-0.042	25	0.047	20	-0.405	25	-1.481	27	1.313	20	-12.808	3
335		3	max	0.027	31	0	35	0.001	5	0.541	35	1.978	33	17.105	5	-1.752	35
336			min	-0.018	33	0	25	0	20	-0.541	25	-1.978	27	1.752	20	-17.105	3
337		4	max	0.03	30	0.042	33	-0.047	35	0.406	35	1.486	33	12.846	5	-1.315	35
338			min	-0.023	32	-0.042	27	-0.457	3	-0.406	25	-1.486	27	1.315	20	-12.846	3
339		5	max	0.04	30	0.085	33	-0.094	35	0	35	0	35	0	35	0	35
340			min	-0.035	32	-0.085	27	-0.916	3	0	1	0	1	0	1	0	1
341	M35	1	max	0.008	25	0.003	24	0.037	5	0	35	0	35	0	35	0	35
342			min	-0.007	35	-0.003	34	0.005	32	0	1	0	1	0	1	0	1
343		2	max	0.008	25	0.003	24	0.035	5	0.021	24	0.071	34	0.658	5	-0.077	32
344			min	-0.007	35	-0.003	34	0.003	32	-0.02	34	-0.077	24	0.077	32	-0.658	3
345		3	max	0.008	25	0.003	24	0.032	5	0.042	24	0.143	34	1.269	5	-0.126	32
346			min	-0.007	35	-0.003	34	0.002	32	-0.039	34	-0.154	24	0.126	32	-1.269	3
347		4	max	0.008	25	0.003	24	0.03	5	0.063	24	0.214	34	1.834	5	-0.147	32
348			min	-0.007	35	-0.003	34	0	32	-0.059	34	-0.231	24	0.147	32	-1.834	3
349		5	max	0.008	25	0.003	24	0.029	2	0.084	24	0.285	34	2.352	5	-0.14	32
350			min	-0.007	35	-0.003	34	-0.002	24	-0.078	34	-0.308	24	0.14	32	-2.352	3
351	M36	1	max	0.007	33	0.003	28	0.037	5	0	35	0	35	0	35	0	35
352			min	-0.012	31	-0.003	34	0.005	22	0	1	0	1	0	1	0	1
353		2	max	0.007	33	0.003	28	0.035	5	0.02	28	0.065	34	0.66	5	-0.077	22
354			min	-0.012	31	-0.003	34	0.003	22	-0.018	34	-0.074	28	0.077	22	-0.66	3
355		3	max	0.007	33	0.003	28	0.032	5	0.04	28	0.129	34	1.273	5	-0.126	22
356			min	-0.012	31	-0.003	34	0.002	22	-0.035	34	-0.147	28	0.126	22	-1.273	3
357		4	max	0.007	33	0.003	28	0.03	5	0.06	28	0.194	34	1.839	5	-0.147	22
358			min	-0.012	31	-0.003	34	0	22	-0.053	34	-0.221	28	0.147	22	-1.839	3
359		5	max	0.007	33	0.003	28	0.029	2	0.08	28	0.258	34	2.359	5	-0.14	22
360			min	-0.012	31	-0.003	34	-0.002	10	-0.071	34	-0.294	28	0.14	22	-2.359	3
361	M37	1	max	1.693	5	0.003	28	0.001	35	0	35	0	35	0	35	0	35
362			min	0.176	32	-0.002	34	-0.002	29	0	1	0	1	0	1	0	1
363		2	max	1.691	5	0.003	28	0.001	35	0.046	28	0.042	34	0.01	35	0.035	29
364			min	0.175	32	-0.002	34	-0.002	29	-0.042	34	-0.046	28	-0.035	29	-0.01	35
365		3	max	1.689	5	0.003	28	0.001	35	0.091	28	0.083	34	0.02	35	0.071	29
366			min	0.174	32	-0.002	34	-0.002	29	-0.083	34	-0.091	28	-0.071	29	-0.02	35
367		4	max	1.687	5	0.003	28	0.001	35	0.137	28	0.125	34	0.031	35	0.106	29
368			min	0.173	32	-0.002	34	-0.002	29	-0.125	34	-0.137	28	-0.106	29	-0.031	35
369		5	max	1.685	5	0.003	28	0.001	35	0.183	28	0.166	34	0.041	35	0.141	29

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
370			min	0.171	32	-0.002	34	-0.002	29	-0.166	34	-0.183	28	-0.141	29	-0.041	35
371	M38	1	max	0.01	29	0.003	24	0.037	5	0	35	0	35	0	35	0	35
372			min	-0.006	35	-0.003	34	0.005	35	0	1	0	1	0	1	0	1
373		2	max	0.01	29	0.003	24	0.035	5	0.02	24	0.072	34	0.657	5	-0.077	35
374			min	-0.006	35	-0.003	34	0.003	35	-0.02	34	-0.074	24	0.077	35	-0.657	3
375		3	max	0.01	29	0.003	24	0.032	5	0.04	24	0.144	34	1.268	5	-0.126	35
376			min	-0.006	35	-0.003	34	0.002	35	-0.039	34	-0.148	24	0.126	35	-1.268	3
377		4	max	0.01	29	0.003	24	0.029	5	0.061	24	0.216	34	1.833	5	-0.147	35
378			min	-0.006	35	-0.003	34	0	35	-0.059	34	-0.221	24	0.147	35	-1.833	3
379		5	max	0.01	29	0.003	24	0.029	2	0.081	24	0.289	34	2.35	5	-0.14	35
380			min	-0.006	35	-0.003	34	-0.002	27	-0.079	34	-0.295	24	0.14	35	-2.35	3
381	M39	1	max	0.145	28	0.086	35	0.92	5	0	35	0	35	0	35	0	35
382			min	-0.1	34	-0.086	25	0.094	20	0	1	0	1	0	1	0	1
383		2	max	0.136	28	0.043	35	0.46	5	0.409	35	1.496	33	12.924	5	-1.319	35
384			min	-0.088	34	-0.043	25	0.047	20	-0.409	25	-1.496	27	1.319	20	-12.924	3
385		3	max	0.127	28	0	35	0	35	0.545	35	1.994	33	17.232	5	-1.758	35
386			min	-0.076	34	0	1	0	1	-0.545	25	-1.994	27	1.758	20	-17.232	3
387		4	max	0.117	28	0.043	33	-0.047	35	0.409	35	1.496	33	12.924	5	-1.319	35
388			min	-0.063	34	-0.043	27	-0.46	3	-0.409	25	-1.496	27	1.319	20	-12.924	3
389		5	max	0.108	28	0.086	33	-0.094	35	0	35	0	35	0	35	0	35
390			min	-0.051	34	-0.086	27	-0.92	3	0	1	0	1	0	1	0	1
391	M40	1	max	0.076	31	0.304	30	1.075	5	2.269	8	8.357	10	0.531	22	5.368	16
392			min	-0.059	33	-0.236	32	0.011	22	-2.285	10	-8.3	8	-5.368	16	-0.531	22
393		2	max	0.076	31	0.303	30	1.075	5	2.244	8	8.247	10	0.535	22	4.967	16
394			min	-0.059	33	-0.236	32	0.011	22	-2.254	10	-8.209	8	-4.967	16	-0.535	22
395		3	max	0.076	31	0.303	30	1.074	5	2.219	8	8.136	10	0.539	22	4.567	16
396			min	-0.059	33	-0.236	32	0.011	22	-2.224	10	-8.119	8	-4.567	16	-0.539	22
397		4	max	0.076	31	0.303	30	1.073	5	2.195	8	8.025	10	0.543	22	4.167	16
398			min	-0.059	33	-0.236	32	0.01	22	-2.194	10	-8.029	8	-4.167	16	-0.543	22
399		5	max	0.076	31	0.303	30	1.071	5	2.17	8	7.915	10	0.547	22	3.767	16
400			min	-0.059	33	-0.236	32	0.01	22	-2.164	10	-7.939	8	-3.767	16	-0.547	22
401	M41	1	max	1.143	30	0.001	28	0.001	34	0	30	0	32	0	30	0	32
402			min	-0.393	32	-0.001	34	-0.002	28	0	32	0	30	0	32	0	30
403		2	max	1.141	30	0.001	28	0.001	34	0.021	28	0.014	34	0.012	34	0.034	28
404			min	-0.394	32	-0.001	34	-0.002	28	-0.014	34	-0.021	28	-0.034	28	-0.012	34
405		3	max	1.139	30	0.001	28	0.001	34	0.043	28	0.028	34	0.025	34	0.068	28
406			min	-0.395	32	-0.001	34	-0.002	28	-0.028	34	-0.043	28	-0.068	28	-0.025	34
407		4	max	1.137	30	0.001	28	0.001	34	0.064	28	0.042	34	0.037	34	0.102	28
408			min	-0.396	32	-0.001	34	-0.002	28	-0.042	34	-0.064	28	-0.102	28	-0.037	34
409		5	max	1.135	30	0.001	28	0.001	34	0.085	28	0.056	34	0.05	34	0.136	28
410			min	-0.397	32	-0.001	34	-0.002	28	-0.056	34	-0.085	28	-0.136	28	-0.05	34
411	M42	1	max	1.689	5	0.003	24	0.001	35	0	35	0	35	0	35	0	35
412			min	0.179	34	-0.003	34	-0.002	29	0	1	0	1	0	1	0	1
413		2	max	1.687	5	0.003	24	0.001	35	0.058	24	0.057	34	0.011	35	0.038	29
414			min	0.178	34	-0.003	34	-0.002	29	-0.057	34	-0.058	24	-0.038	29	-0.011	35
415		3	max	1.685	5	0.003	24	0.001	35	0.116	24	0.113	34	0.023	35	0.076	29
416			min	0.177	34	-0.003	34	-0.002	29	-0.113	34	-0.116	24	-0.076	29	-0.023	35
417		4	max	1.684	5	0.003	24	0.001	35	0.175	24	0.17	34	0.034	35	0.113	29
418			min	0.176	34	-0.003	34	-0.002	29	-0.17	34	-0.175	24	-0.113	29	-0.034	35
419		5	max	1.682	5	0.003	24	0.001	35	0.233	24	0.227	34	0.046	35	0.151	29
420			min	0.174	34	-0.003	34	-0.002	29	-0.227	34	-0.233	24	-0.151	29	-0.046	35
421	M43	1	max	0.037	22	0.174	18	0.009	35	0	35	0	35	0	35	0	35
422			min	-0.142	16	-0.01	20	-0.01	25	0	1	0	1	0	1	0	1
423		2	max	0.035	22	0.172	18	0.009	35	0.337	18	0.018	20	0.585	35	0.596	25
424			min	-0.14	16	-0.008	20	-0.01	25	-0.018	20	-0.337	18	-0.596	25	-0.585	35

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
425		3	max	0.034	22	0.17	18	0.009	35	0.669	18	0.032	20	1.169	35	1.192	25
426			min	-0.138	16	-0.006	20	-0.01	25	-0.032	20	-0.669	18	-1.192	25	-1.169	35
427		4	max	0.032	22	0.168	18	0.009	35	0.997	18	0.042	20	1.754	35	1.789	25
428			min	-0.137	16	-0.004	20	-0.01	25	-0.042	20	-0.997	18	-1.789	25	-1.754	35
429		5	max	0.03	22	0.165	5	0.009	35	1.32	18	0.048	20	2.339	35	2.385	25
430			min	-0.135	16	-0.002	20	-0.01	25	-0.048	20	-1.32	18	-2.385	25	-2.339	35
431	M44	1	max	0.041	22	0.093	18	0.01	27	0	35	0	35	0	35	0	35
432			min	-0.1	16	-0.014	20	-0.009	33	0	1	0	1	0	1	0	1
433		2	max	0.039	22	0.091	18	0.01	27	0.179	18	0.026	20	0.595	27	0.586	33
434			min	-0.099	16	-0.012	20	-0.009	33	-0.026	20	-0.179	18	-0.586	33	-0.595	27
435		3	max	0.037	22	0.089	18	0.01	27	0.353	18	0.047	20	1.19	27	1.172	33
436			min	-0.097	16	-0.01	20	-0.009	33	-0.047	20	-0.353	18	-1.172	33	-1.19	27
437		4	max	0.035	22	0.086	18	0.01	27	0.523	18	0.065	20	1.786	27	1.758	33
438			min	-0.095	16	-0.008	20	-0.009	33	-0.065	20	-0.523	18	-1.758	33	-1.786	27
439		5	max	0.033	22	0.084	18	0.01	27	0.689	18	0.079	20	2.381	27	2.345	33
440			min	-0.094	16	-0.006	20	-0.009	33	-0.079	20	-0.689	18	-2.345	33	-2.381	27
441	M45	1	max	0.034	22	0.107	18	0.011	35	1.321	18	0.048	20	0.5	5	0.026	33
442			min	-0.104	16	-0.009	20	-0.013	29	-0.048	20	-1.321	18	-0.026	33	-0.5	3
443		2	max	0.037	10	0.005	22	0.001	33	1.309	18	0.077	20	0.254	31	0.097	33
444			min	-0.035	20	-0.049	16	-0.006	31	-0.077	20	-1.309	18	-0.097	33	-0.254	31
445		3	max	0.035	10	0.002	22	0.001	33	1.24	18	0.104	20	0.058	23	0.148	17
446			min	-0.033	20	-0.048	16	-0.006	31	-0.104	20	-1.24	18	-0.148	17	-0.058	23
447		4	max	0.034	10	-0.001	22	0.002	21	1.167	18	0.128	20	0.065	33	0.44	31
448			min	-0.031	20	-0.047	16	-0.006	19	-0.128	20	-1.167	18	-0.44	31	-0.065	33
449		5	max	0.032	10	-0.003	34	0.004	21	1.089	18	0.147	20	0.22	21	0.862	19
450			min	-0.029	20	-0.046	28	-0.008	19	-0.147	20	-1.089	18	-0.862	19	-0.22	21
451	M46	1	max	0.037	22	0.026	18	0.006	19	0.688	18	0.079	20	0.158	35	0.586	29
452			min	-0.062	16	-0.014	8	-0.001	21	-0.079	20	-0.688	18	-0.586	29	-0.158	35
453		2	max	0.036	22	0.024	18	0.005	29	0.738	18	0.102	20	0.084	35	0.25	17
454			min	-0.06	16	-0.012	8	-0.001	35	-0.102	20	-0.738	18	-0.25	17	-0.084	35
455		3	max	0.034	22	0.022	18	0.005	29	0.782	18	0.122	20	0.148	19	0.058	21
456			min	-0.058	16	-0.01	8	-0.001	35	-0.122	20	-0.782	18	-0.058	21	-0.148	19
457		4	max	0.032	22	0.02	2	0.006	17	0.822	18	0.137	20	0.438	29	0.062	35
458			min	-0.057	16	-0.008	24	-0.002	23	-0.137	20	-0.822	18	-0.062	35	-0.438	29
459		5	max	0.03	22	0.02	2	0.008	17	0.858	18	0.148	20	0.863	17	0.221	23
460			min	-0.055	16	-0.009	24	-0.004	23	-0.148	20	-0.858	18	-0.221	23	-0.863	17
461	M47	1	max	0.097	18	-0.014	35	0.019	25	0.858	18	0.148	20	2.214	35	2.373	29
462			min	-0.024	20	-0.18	3	-0.018	35	-0.148	20	-0.858	18	-2.373	29	-2.214	35
463		2	max	0.095	18	-0.014	35	0.019	25	0.526	18	0.183	20	1.104	35	1.258	29
464			min	-0.022	20	-0.181	3	-0.018	35	-0.183	20	-0.526	18	-1.258	29	-1.104	35
465		3	max	0.094	18	-0.015	35	0.019	25	0.19	18	0.234	8	0.055	23	0.187	17
466			min	-0.02	20	-0.181	3	-0.018	35	-0.234	8	-0.19	18	-0.187	17	-0.055	23
467		4	max	0.093	18	-0.013	20	0.019	25	0.113	22	0.424	16	1.153	25	1.116	35
468			min	-0.018	20	-0.182	3	-0.018	35	-0.424	16	-0.113	22	-1.116	35	-1.153	25
469		5	max	0.092	18	-0.01	20	0.019	25	0.067	22	0.752	16	2.322	25	2.225	35
470			min	-0.016	20	-0.182	3	-0.018	35	-0.752	16	-0.067	22	-2.225	35	-2.322	25
471	M48	1	max	0.131	18	-0.017	32	0.018	33	1.09	18	0.147	20	2.368	31	2.219	33
472			min	-0.021	20	-0.242	3	-0.019	27	-0.147	20	-1.09	18	-2.219	33	-2.368	31
473		2	max	0.13	18	-0.017	32	0.018	33	0.644	18	0.19	20	1.255	31	1.107	33
474			min	-0.019	20	-0.243	3	-0.019	27	-0.19	20	-0.644	18	-1.107	33	-1.255	31
475		3	max	0.129	18	-0.017	32	0.018	33	0.194	18	0.255	8	0.187	19	0.055	21
476			min	-0.017	20	-0.243	3	-0.019	27	-0.255	8	-0.194	18	-0.055	21	-0.187	19
477		4	max	0.127	18	-0.017	20	0.018	33	0.106	22	0.547	16	1.118	33	1.151	27
478			min	-0.015	20	-0.244	3	-0.019	27	-0.547	16	-0.106	22	-1.151	27	-1.118	33
479		5	max	0.126	18	-0.015	20	0.018	33	0.053	22	0.99	16	2.231	33	2.317	27

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
480			min	-0.013	20	-0.244	3	-0.019	27	-0.99	16	-0.053	22	-2.317	27	-2.231	33
481	M49	1	max	0.094	18	-0.014	20	0.02	29	0.067	22	0.753	16	2.181	35	2.314	25
482			min	-0.014	20	-0.191	3	-0.018	35	-0.753	16	-0.067	22	-2.314	25	-2.181	35
483		2	max	0.092	18	-0.012	20	0.02	29	0.007	22	1.089	16	1.095	35	1.143	25
484			min	-0.012	20	-0.191	3	-0.018	35	-1.089	16	-0.007	22	-1.143	25	-1.095	35
485		3	max	0.091	18	-0.01	20	0.02	29	-0.057	22	1.423	16	0.274	19	0.043	21
486			min	-0.01	20	-0.191	3	-0.018	35	-1.423	16	0.057	22	-0.043	21	-0.274	19
487		4	max	0.09	18	-0.008	20	0.02	29	-0.127	22	1.762	5	1.478	29	1.077	35
488			min	-0.008	20	-0.193	18	-0.018	35	-1.762	3	0.127	22	-1.077	35	-1.478	29
489		5	max	0.089	18	-0.006	20	0.02	29	-0.195	35	2.132	5	2.719	29	2.164	35
490			min	-0.006	20	-0.195	18	-0.018	35	-2.132	3	0.195	35	-2.164	35	-2.719	29
491	M50	1	max	0.127	18	-0.018	20	0.018	33	0.053	22	0.99	16	2.308	27	2.187	33
492			min	-0.011	20	-0.253	3	-0.02	31	-0.99	16	-0.053	22	-2.187	33	-2.308	27
493		2	max	0.126	18	-0.016	20	0.018	33	-0.013	22	1.441	16	1.141	27	1.098	33
494			min	-0.009	20	-0.254	3	-0.02	31	-1.441	16	0.013	22	-1.098	33	-1.141	27
495		3	max	0.125	18	-0.014	20	0.018	33	-0.084	22	1.891	16	0.043	23	0.275	17
496			min	-0.007	20	-0.254	3	-0.02	31	-1.891	16	0.084	22	-0.275	17	-0.043	23
497		4	max	0.124	18	-0.012	20	0.018	33	-0.16	22	2.368	5	1.081	33	1.475	31
498			min	-0.005	20	-0.255	3	-0.02	31	-2.368	3	0.16	22	-1.475	31	-1.081	33
499		5	max	0.123	18	-0.01	20	0.018	33	-0.241	22	2.86	5	2.17	33	2.714	31
500			min	-0.003	20	-0.255	3	-0.02	31	-2.86	3	0.241	22	-2.714	31	-2.17	33
501	M51	1	max	0.021	22	0.073	18	0.019	19	-0.075	34	0.72	28	1.645	21	2.404	31
502			min	-0.082	16	-0.007	20	-0.015	21	-0.72	28	0.075	34	-2.404	31	-1.645	21
503		2	max	0.019	22	0.071	18	0.018	31	-0.028	22	0.626	16	0.801	33	1.319	31
504			min	-0.081	16	-0.005	20	-0.014	21	-0.626	16	0.028	22	-1.319	31	-0.801	33
505		3	max	0.017	22	0.069	18	0.018	31	0.021	22	0.535	16	0.043	23	0.274	17
506			min	-0.079	16	-0.003	20	-0.013	33	-0.535	16	-0.021	22	-0.274	17	-0.043	23
507		4	max	0.016	22	0.067	18	0.018	31	0.064	22	0.441	16	0.868	27	0.82	33
508			min	-0.077	16	-0.001	20	-0.013	33	-0.441	16	-0.064	22	-0.82	33	-0.868	27
509		5	max	0.014	22	0.064	18	0.018	31	0.103	22	0.344	16	1.934	31	1.63	33
510			min	-0.076	16	0.001	20	-0.013	33	-0.344	16	-0.103	22	-1.63	33	-1.934	31
511	M52	1	max	0.02	22	0.075	18	0.015	23	-0.105	22	1.135	5	2.401	29	1.646	23
512			min	-0.091	16	-0.007	20	-0.019	17	-1.135	3	0.105	22	-1.646	23	-2.401	29
513		2	max	0.018	22	0.073	18	0.014	23	-0.051	22	1.022	16	1.318	29	0.802	35
514			min	-0.089	16	-0.005	20	-0.018	29	-1.022	16	0.051	22	-0.802	35	-1.318	29
515		3	max	0.017	22	0.071	18	0.013	35	-0.002	22	0.926	16	0.274	19	0.043	21
516			min	-0.088	16	-0.003	20	-0.018	29	-0.926	16	0.002	22	-0.043	21	-0.274	19
517		4	max	0.015	22	0.069	18	0.013	35	0.042	22	0.827	16	0.822	35	0.865	25
518			min	-0.086	16	-0.001	20	-0.018	29	-0.827	16	-0.042	22	-0.865	25	-0.822	35
519		5	max	0.013	22	0.067	18	0.013	35	0.082	22	0.726	16	1.634	35	1.931	29
520			min	-0.084	16	0.001	20	-0.018	29	-0.726	16	-0.082	22	-1.931	29	-1.634	35
521	M53	1	max	0.016	22	0.057	18	0.014	27	0.103	22	0.344	16	1.692	33	1.754	27
522			min	-0.073	16	-0.004	20	-0.014	33	-0.344	16	-0.103	22	-1.754	27	-1.692	33
523		2	max	0.014	22	0.054	18	0.014	27	0.131	22	0.261	16	0.846	33	0.877	27
524			min	-0.071	16	-0.002	20	-0.014	33	-0.261	16	-0.131	22	-0.877	27	-0.846	33
525		3	max	0.012	22	0.052	18	0.014	27	0.154	22	0.2	8	0.063	23	0.063	9
526			min	-0.069	16	0	20	-0.014	33	-0.2	8	-0.154	22	-0.063	9	-0.063	23
527		4	max	0.011	22	0.051	5	0.014	27	0.187	18	0.19	8	0.877	27	0.846	33
528			min	-0.068	16	0.002	20	-0.014	33	-0.19	8	-0.187	18	-0.846	33	-0.877	27
529		5	max	0.009	22	0.05	5	0.014	27	0.282	18	0.178	20	1.753	27	1.692	33
530			min	-0.066	16	0.003	32	-0.014	33	-0.178	20	-0.282	18	-1.692	33	-1.753	27
531	M54	1	max	0.015	22	0.059	18	0.014	35	0.082	22	0.726	16	1.746	25	1.698	35
532			min	-0.082	16	-0.004	20	-0.014	25	-0.726	16	-0.082	22	-1.698	35	-1.746	25
533		2	max	0.013	22	0.056	18	0.014	35	0.11	22	0.639	16	0.873	25	0.849	35
534			min	-0.08	16	-0.002	20	-0.014	25	-0.639	16	-0.11	22	-0.849	35	-0.873	25

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
535		3	max	0.011	22	0.054	18	0.014	35	0.132	22	0.549	16	0.063	11	0.063	21
536			min	-0.078	16	0.001	20	-0.014	25	-0.549	16	-0.132	22	-0.063	21	-0.063	11
537		4	max	0.01	22	0.053	5	0.014	35	0.15	22	0.456	16	0.849	35	0.873	25
538			min	-0.076	16	0.003	20	-0.014	25	-0.456	16	-0.15	22	-0.873	25	-0.849	35
539		5	max	0.008	22	0.052	5	0.014	35	0.162	22	0.361	16	1.698	35	1.746	25
540			min	-0.075	16	0.003	32	-0.014	25	-0.361	16	-0.162	22	-1.746	25	-1.698	35
541	M55	1	max	0.016	35	0.043	5	0.017	31	0.282	18	0.178	20	1.669	33	1.901	31
542			min	-0.067	29	-0.001	32	-0.013	33	-0.178	20	-0.282	18	-1.901	31	-1.669	33
543		2	max	0.016	35	0.043	5	0.017	31	0.359	18	0.175	20	0.838	33	0.885	27
544			min	-0.067	29	-0.002	22	-0.013	33	-0.175	20	-0.359	18	-0.885	27	-0.838	33
545		3	max	0.016	35	0.043	16	0.017	31	0.433	18	0.167	20	0.252	19	0.052	21
546			min	-0.066	29	-0.004	22	-0.013	33	-0.167	20	-0.433	18	-0.052	21	-0.252	19
547		4	max	0.016	35	0.045	16	0.017	31	0.502	18	0.156	20	1.262	31	0.824	33
548			min	-0.066	29	-0.007	10	-0.013	33	-0.156	20	-0.502	18	-0.824	33	-1.262	31
549		5	max	0.016	35	0.046	16	0.017	31	0.566	18	0.14	20	2.317	31	1.655	33
550			min	-0.066	29	-0.01	10	-0.013	33	-0.14	20	-0.566	18	-1.655	33	-2.317	31
551	M56	1	max	0.013	33	0.046	5	0.013	35	0.162	22	0.361	16	1.898	29	1.676	35
552			min	-0.074	31	-0.001	32	-0.017	29	-0.361	16	-0.162	22	-1.676	35	-1.898	29
553		2	max	0.013	33	0.045	5	0.013	35	0.162	22	0.276	16	0.881	25	0.841	35
554			min	-0.074	31	-0.002	22	-0.017	29	-0.276	16	-0.162	22	-0.841	35	-0.881	25
555		3	max	0.013	33	0.046	16	0.013	35	0.156	22	0.214	8	0.052	23	0.251	17
556			min	-0.074	31	-0.004	22	-0.017	29	-0.214	8	-0.156	22	-0.251	17	-0.052	23
557		4	max	0.014	33	0.047	16	0.013	35	0.158	18	0.202	8	0.827	35	1.261	29
558			min	-0.073	31	-0.007	22	-0.017	29	-0.202	8	-0.158	18	-1.261	29	-0.827	35
559		5	max	0.014	33	0.048	16	0.013	35	0.227	18	0.186	8	1.662	35	2.314	29
560			min	-0.073	31	-0.01	10	-0.017	29	-0.186	8	-0.227	18	-2.314	29	-1.662	35
561	M57	1	max	0.111	31	-0.01	20	0.011	29	0.566	18	0.14	20	2.49	35	2.792	29
562			min	-0.01	33	-0.239	3	-0.01	35	-0.14	20	-0.566	18	-2.792	29	-2.49	35
563		2	max	0.111	31	-0.008	20	0.011	29	0.11	18	0.18	8	1.879	35	2.101	29
564			min	-0.01	33	-0.239	3	-0.01	35	-0.18	8	-0.11	18	-2.101	29	-1.879	35
565		3	max	0.111	31	-0.005	20	0.011	29	0.026	22	0.504	16	1.268	35	1.409	29
566			min	-0.01	33	-0.239	3	-0.01	35	-0.504	16	-0.026	22	-1.409	29	-1.268	35
567		4	max	0.111	31	-0.003	20	0.011	29	-0.043	22	0.925	16	0.657	35	0.718	29
568			min	-0.01	33	-0.24	3	-0.01	35	-0.925	16	0.043	22	-0.718	29	-0.657	35
569		5	max	0.157	31	-0.006	20	0.018	25	-0.116	35	1.419	5	0.045	25	0.044	35
570			min	-0.007	33	-0.328	3	-0.017	35	-1.419	3	0.116	35	-0.044	35	-0.045	25
571	M58	1	max	0.1	29	-0.01	20	0.01	33	0.226	18	0.186	8	2.829	31	2.526	33
572			min	-0.009	35	-0.236	3	-0.011	31	-0.186	8	-0.226	18	-2.526	33	-2.829	31
573		2	max	0.1	29	-0.007	20	0.01	33	0.07	22	0.426	16	2.111	31	1.883	33
574			min	-0.009	35	-0.236	3	-0.011	31	-0.426	16	-0.07	22	-1.883	33	-2.111	31
575		3	max	0.101	29	-0.005	20	0.01	33	0.007	22	0.843	16	1.394	31	1.241	33
576			min	-0.009	35	-0.237	3	-0.011	31	-0.843	16	-0.007	22	-1.241	33	-1.394	31
577		4	max	0.101	29	-0.003	20	0.01	33	-0.062	22	1.266	5	0.677	31	0.599	33
578			min	-0.009	35	-0.237	3	-0.011	31	-1.266	3	0.062	22	-0.599	33	-0.677	31
579		5	max	0.101	29	-0.001	20	0.01	33	-0.136	22	1.729	5	0.043	33	0.044	27
580			min	-0.009	35	-0.239	18	-0.011	31	-1.729	3	0.136	22	-0.044	27	-0.043	33
581	M59	1	max	0.01	29	0.006	25	-0.028	33	0.03	31	0.027	33	0.31	27	0.066	33
582			min	-0.008	35	-0.006	27	-0.416	3	-0.027	33	-0.03	31	-0.279	33	-0.073	27
583		2	max	0.008	29	0.006	25	-0.005	33	0.019	31	0.013	33	-0.122	35	0.552	5
584			min	-0.006	35	-0.006	27	-0.216	31	-0.013	33	-0.019	31	-2.344	3	0.029	35
585		3	max	0.007	29	0.006	25	0.019	33	0.015	30	0.008	32	-0.327	22	0.75	5
586			min	-0.005	35	-0.006	27	-0.019	27	-0.008	32	-0.015	30	-3.182	3	0.077	22
587		4	max	0.006	29	0.006	25	0.218	29	0.02	29	0.015	35	-0.107	33	0.552	31
588			min	-0.003	35	-0.006	27	0.005	35	-0.015	35	-0.02	29	-2.344	31	0.025	33
589		5	max	0.004	29	0.006	25	0.415	5	0.031	29	0.029	35	0.325	25	0.069	35

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
590			min	-0.001	35	-0.006	27	0.028	35	-0.029	35	-0.031	29	-0.293	35	-0.077	25
591	M60	1	max	0.013	25	0.014	26	-0.077	35	0.034	29	0.03	35	0.515	29	0.074	35
592			min	-0.013	35	-0.014	32	-1.351	3	-0.03	35	-0.034	29	-0.314	35	-0.121	29
593		2	max	0.007	25	0.007	26	-0.028	35	0.029	30	0.024	32	-0.384	33	1.781	5
594			min	-0.006	35	-0.007	32	-0.675	3	-0.024	32	-0.029	30	-7.558	3	0.09	33
595		3	max	0	25	0.007	35	0.022	35	0.035	30	0.032	32	-0.74	35	2.396	5
596			min	-0.001	31	-0.007	33	-0.022	33	-0.032	32	-0.035	30	-10.169	3	0.174	35
597		4	max	0.006	27	0.007	24	0.675	5	0.029	30	0.024	32	-0.383	35	1.781	5
598			min	-0.006	33	-0.007	34	0.028	33	-0.024	32	-0.029	30	-7.559	3	0.09	35
599		5	max	0.013	27	0.014	24	1.351	5	0.034	31	0.03	33	0.514	31	0.074	33
600			min	-0.013	33	-0.014	34	0.077	33	-0.03	33	-0.034	31	-0.316	33	-0.121	31
601	M61	1	max	0.002	5	0.012	27	0.012	35	0.064	29	0.056	35	0.609	25	0.141	35
602			min	0	33	-0.012	25	-0.084	25	-0.056	35	-0.064	29	-0.599	35	-0.143	25
603		2	max	0.002	5	0.012	27	0.025	35	0.042	29	0.027	35	0.147	33	0.132	27
604			min	0	33	-0.012	25	-0.062	25	-0.027	35	-0.042	29	-0.559	27	-0.035	33
605		3	max	0.002	5	0.012	27	0.039	27	0.02	5	-0.002	34	-0.035	2	0.09	5
606			min	0	33	-0.012	25	-0.039	25	0.002	34	-0.02	3	-0.38	3	0.008	2
607		4	max	0.002	5	0.012	27	0.062	27	0.041	31	0.027	33	0.147	35	0.132	25
608			min	0	33	-0.012	25	-0.025	33	-0.027	33	-0.041	31	-0.559	25	-0.035	35
609		5	max	0.002	5	0.012	27	0.084	27	0.064	31	0.056	33	0.608	27	0.142	33
610			min	0	33	-0.012	25	-0.012	33	-0.056	33	-0.064	31	-0.601	33	-0.143	27
611	M62	1	max	0.028	25	0.024	26	-0.145	35	0.021	29	0.01	35	0.458	5	-0.006	35
612			min	-0.026	35	-0.024	32	-2.217	3	-0.01	35	-0.021	29	0.026	35	-0.108	3
613		2	max	0.017	25	0.012	26	-0.073	35	0.045	30	0.04	32	-0.813	33	2.921	5
614			min	-0.016	35	-0.012	32	-1.108	3	-0.04	32	-0.045	30	-12.399	3	0.191	33
615		3	max	0.015	16	0.002	35	0	31	0.057	26	0.053	32	-1.096	32	3.931	5
616			min	-0.012	22	-0.003	33	0	25	-0.053	32	-0.057	26	-16.684	3	0.258	32
617		4	max	0.015	16	0.012	24	1.109	5	0.044	30	0.04	32	-0.813	35	2.921	5
618			min	-0.012	22	-0.012	34	0.073	33	-0.04	32	-0.044	30	-12.396	3	0.192	35
619		5	max	0.017	27	0.024	24	2.217	5	0.02	31	0.01	33	0.463	5	-0.006	33
620			min	-0.016	33	-0.024	34	0.145	33	-0.01	33	-0.02	31	0.025	33	-0.109	3
621	M63	1	max	0	34	0.009	25	0.002	33	0.049	31	0.042	33	0.462	27	0.106	33
622			min	-0.005	3	-0.009	27	-0.075	27	-0.042	33	-0.049	31	-0.45	33	-0.109	27
623		2	max	0	34	0.009	25	0.016	33	0.031	31	0.02	33	0.073	35	0.114	25
624			min	-0.005	3	-0.009	27	-0.052	27	-0.02	33	-0.031	31	-0.484	25	-0.017	35
625		3	max	0	34	0.009	25	0.029	25	0.013	5	-0.001	20	-0.025	2	0.087	5
626			min	-0.005	3	-0.009	27	-0.03	27	0.001	20	-0.013	3	-0.369	3	0.006	2
627		4	max	0	34	0.009	25	0.052	25	0.031	29	0.021	35	0.073	33	0.114	27
628			min	-0.005	3	-0.009	27	-0.016	35	-0.021	35	-0.031	29	-0.485	27	-0.017	33
629		5	max	0	34	0.009	25	0.075	25	0.049	29	0.042	35	0.461	25	0.106	35
630			min	-0.005	3	-0.009	27	-0.002	35	-0.042	35	-0.049	29	-0.451	35	-0.109	25
631	M64	1	max	0.004	5	0.009	25	0.003	33	0.048	31	0.042	33	0.474	27	0.108	33
632			min	0	35	-0.009	27	-0.075	27	-0.042	33	-0.048	31	-0.46	33	-0.112	27
633		2	max	0.004	5	0.009	25	0.016	33	0.029	31	0.021	33	0.079	35	0.115	25
634			min	0	35	-0.009	27	-0.053	27	-0.021	33	-0.029	31	-0.488	25	-0.019	35
635		3	max	0.004	5	0.009	25	0.03	25	0.011	5	-0.001	35	-0.017	2	0.085	5
636			min	0	35	-0.009	27	-0.03	27	0.001	35	-0.011	3	-0.36	3	0.004	2
637		4	max	0.004	5	0.009	25	0.053	25	0.029	29	0.021	35	0.079	33	0.115	27
638			min	0	35	-0.009	27	-0.017	35	-0.021	35	-0.029	29	-0.489	27	-0.019	33
639		5	max	0.004	5	0.009	25	0.075	25	0.048	29	0.042	35	0.472	25	0.109	35
640			min	0	35	-0.009	27	-0.003	35	-0.042	35	-0.048	29	-0.461	35	-0.111	25
641	M65	1	max	0.019	33	0.02	34	-0.12	23	0.025	17	0.013	23	0.39	17	0.03	23
642			min	-0.018	27	-0.02	24	-1.924	3	-0.013	23	-0.025	17	-0.127	23	-0.092	17
643		2	max	0.009	33	0.01	34	-0.055	23	0.04	30	0.034	32	-0.658	21	2.557	5
644			min	-0.009	27	-0.01	24	-0.954	3	-0.034	32	-0.04	30	-10.85	3	0.155	21

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
645		3	max	0	35	0.003	11	0.009	23	0.049	30	0.046	32	-0.974	35	3.412	5
646			min	-0.002	29	-0.003	9	-0.013	17	-0.046	32	-0.049	30	-14.48	3	0.23	35
647		4	max	0.01	35	0.01	32	0.955	5	0.04	30	0.034	32	-0.657	23	2.551	5
648			min	-0.009	25	-0.01	26	0.055	21	-0.034	32	-0.04	30	-10.826	3	0.155	23
649		5	max	0.019	35	0.02	32	1.921	5	0.025	19	0.013	21	0.392	19	0.03	21
650			min	-0.019	25	-0.02	26	0.12	21	-0.013	21	-0.025	19	-0.127	21	-0.092	19
651	M66	1	max	1.401	5	0	35	0	35	0	35	0	35	0	35	0	35
652			min	0.08	20	0	1	0	1	0	1	0	1	0	1	0	1
653		2	max	1.4	5	0	35	0	35	0	35	0	35	0	35	0	35
654			min	0.079	20	0	1	0	1	0	1	0	1	0	1	0	1
655		3	max	1.399	5	0	35	0	35	0	35	0	35	0	35	0	35
656			min	0.078	20	0	1	0	1	0	1	0	1	0	1	0	1
657		4	max	1.398	5	0	35	0	35	0	35	0	35	0	35	0	35
658			min	0.078	20	0	1	0	1	0	1	0	1	0	1	0	1
659		5	max	1.397	5	0	35	0	35	0	35	0	35	0	35	0	35
660			min	0.077	20	0	1	0	1	0	1	0	1	0	1	0	1
661	M67	1	max	1.245	5	0	35	0	35	0	35	0	35	0	35	0	35
662			min	0.068	20	0	1	0	1	0	1	0	1	0	1	0	1
663		2	max	1.244	5	0	35	0	35	0	35	0	35	0	35	0	35
664			min	0.068	20	0	1	0	1	0	1	0	1	0	1	0	1
665		3	max	1.243	5	0	35	0	35	0	35	0	35	0	35	0	35
666			min	0.067	20	0	1	0	1	0	1	0	1	0	1	0	1
667		4	max	1.242	5	0	35	0	35	0	35	0	35	0	35	0	35
668			min	0.067	20	0	1	0	1	0	1	0	1	0	1	0	1
669		5	max	1.241	5	0	35	0	35	0	35	0	35	0	35	0	35
670			min	0.066	20	0	1	0	1	0	1	0	1	0	1	0	1
671	M68	1	max	0.031	31	0.049	16	0.052	10	1.364	10	5.023	8	3.208	16	0.706	22
672			min	-0.026	33	-0.046	10	-0.089	16	-1.373	8	-4.989	10	-0.706	22	-3.208	16
673		2	max	0.031	31	0.068	8	0.033	22	1.146	10	4.219	8	2.079	16	0.25	22
674			min	-0.026	33	-0.068	10	-0.113	16	-1.153	8	-4.194	10	-0.25	22	-2.079	16
675		3	max	0.031	31	0.09	8	0.019	22	0.846	10	3.114	8	0.68	16	-0.045	22
676			min	-0.026	33	-0.089	10	-0.137	16	-0.851	8	-3.097	10	0.045	22	-0.68	16
677		4	max	0.031	31	0.111	8	0.005	22	0.464	10	1.706	8	0.177	22	0.99	16
678			min	-0.026	33	-0.111	10	-0.161	16	-0.466	8	-1.698	10	-0.99	16	-0.177	22
679		5	max	0.031	31	0.133	8	-0.01	22	0.001	8	0.004	22	0.148	22	2.929	16
680			min	-0.026	33	-0.132	10	-0.185	16	-0.001	22	-0.004	8	-2.929	16	-0.148	22
681	M69	1	max	0.025	32	0.081	33	-0.046	35	0	35	0	35	0	35	0	35
682			min	-0.031	30	-0.081	27	-0.8	3	0	1	0	1	0	1	0	1
683		2	max	0.014	32	0.041	33	-0.023	35	0.387	33	1.414	35	-0.652	35	11.228	5
684			min	-0.023	30	-0.041	27	-0.404	3	-0.387	27	-1.414	25	-11.228	3	0.652	20
685		3	max	0.005	22	0.001	35	0.006	5	0.514	33	1.881	35	-0.867	35	14.931	5
686			min	-0.017	16	-0.001	25	0	20	-0.514	27	-1.881	25	-14.931	3	0.867	20
687		4	max	0.007	34	0.04	35	0.397	5	0.384	33	1.404	35	-0.648	35	11.151	5
688			min	-0.018	28	-0.04	25	0.023	20	-0.384	27	-1.404	25	-11.151	3	0.648	20
689		5	max	0.019	34	0.081	35	0.797	5	0	35	0	35	0	35	0	35
690			min	-0.027	28	-0.081	25	0.046	20	0	1	0	1	0	1	0	1
691	M70	1	max	0.024	32	0.081	33	-0.046	35	0	35	0	35	0	35	0	35
692			min	-0.044	16	-0.081	27	-0.8	3	0	1	0	1	0	1	0	1
693		2	max	0.024	22	0.041	33	-0.023	35	0.387	33	1.414	35	-0.652	35	11.229	5
694			min	-0.044	16	-0.041	27	-0.404	3	-0.387	27	-1.414	25	-11.229	3	0.652	20
695		3	max	0.024	22	0.001	35	0.006	5	0.514	33	1.881	35	-0.867	35	14.932	5
696			min	-0.044	16	-0.001	25	0	20	-0.514	27	-1.881	25	-14.932	3	0.867	20
697		4	max	0.024	22	0.04	35	0.397	5	0.384	33	1.404	35	-0.648	35	11.151	5
698			min	-0.044	16	-0.04	25	0.023	20	-0.384	27	-1.404	25	-11.151	3	0.648	20
699		5	max	0.024	22	0.081	35	0.797	5	0	35	0	35	0	35	0	35

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
700			min	-0.044	16	-0.081	25	0.046	20	0	1	0	1	0	1	0	1
701	M71	1	max	0.049	22	0.081	33	-0.047	35	0	35	0	35	0	35	0	35
702			min	-0.078	16	-0.081	27	-0.804	3	0	1	0	1	0	1	0	1
703		2	max	0.049	22	0.041	33	-0.024	35	0.388	33	1.42	35	-0.655	35	11.276	5
704			min	-0.078	16	-0.041	27	-0.407	3	-0.388	27	-1.42	25	-11.276	3	0.655	20
705		3	max	0.049	22	0	33	0	35	0.521	33	1.907	35	-0.879	35	15.138	5
706			min	-0.078	16	0	27	-0.004	3	-0.521	27	-1.907	25	-15.138	3	0.879	20
707		4	max	0.049	22	0.041	35	0.41	5	0.391	33	1.429	35	-0.659	35	11.348	5
708			min	-0.078	16	-0.041	25	0.024	20	-0.391	27	-1.429	25	-11.348	3	0.659	20
709		5	max	0.049	22	0.082	35	0.807	5	0	35	0	35	0	35	0	35
710			min	-0.078	16	-0.082	25	0.047	20	0	1	0	1	0	1	0	1
711	M72	1	max	0.026	32	0.081	33	-0.046	35	0	35	0	35	0	35	0	35
712			min	-0.03	30	-0.081	27	-0.8	3	0	1	0	1	0	1	0	1
713		2	max	0.015	20	0.041	33	-0.023	35	0.387	33	1.414	35	-0.652	35	11.23	5
714			min	-0.021	30	-0.041	27	-0.403	3	-0.387	27	-1.414	25	-11.23	3	0.652	20
715		3	max	0.015	20	0.001	35	0.006	5	0.514	33	1.881	35	-0.867	35	14.934	5
716			min	-0.021	18	-0.001	25	0	20	-0.514	27	-1.881	25	-14.934	3	0.867	20
717		4	max	0.015	20	0.04	35	0.397	5	0.384	33	1.405	35	-0.648	35	11.154	5
718			min	-0.021	18	-0.04	25	0.023	20	-0.384	27	-1.405	25	-11.154	3	0.648	20
719		5	max	0.018	34	0.081	35	0.797	5	0	35	0	35	0	35	0	35
720			min	-0.024	28	-0.081	25	0.046	20	0	1	0	1	0	1	0	1
721	M73	1	max	0.011	35	0.16	34	-0.094	35	0.083	24	0.298	34	2.351	5	-0.141	35
722			min	-0.075	29	-0.162	24	-1.57	3	-0.081	34	-0.303	24	0.141	35	-2.351	3
723		2	max	0.011	35	0.16	34	-0.094	35	0.062	24	0.224	34	1.764	5	-0.106	35
724			min	-0.075	29	-0.162	24	-1.57	3	-0.061	34	-0.227	24	0.106	35	-1.764	3
725		3	max	0.011	35	0.16	34	-0.094	35	0.041	24	0.149	34	1.176	5	-0.07	35
726			min	-0.075	29	-0.162	24	-1.57	3	-0.041	34	-0.151	24	0.07	35	-1.176	3
727		4	max	0.011	35	0.16	34	-0.094	35	0.021	24	0.075	34	0.588	5	-0.035	35
728			min	-0.075	29	-0.162	24	-1.57	3	-0.02	34	-0.076	24	0.035	35	-0.588	3
729		5	max	0.011	35	0.16	34	-0.094	35	0	35	0	35	0	35	0	35
730			min	-0.075	29	-0.162	24	-1.57	3	0	1	0	1	0	1	0	1
731	M74	1	max	0.04	27	0.153	34	-0.094	34	0.084	24	0.285	34	2.352	5	-0.141	34
732			min	-0.039	33	-0.165	24	-1.57	3	-0.078	34	-0.308	24	0.141	34	-2.352	3
733		2	max	0.04	27	0.153	34	-0.094	34	0.063	24	0.214	34	1.764	5	-0.106	34
734			min	-0.039	33	-0.165	24	-1.57	3	-0.059	34	-0.231	24	0.106	34	-1.764	3
735		3	max	0.04	27	0.153	34	-0.094	34	0.042	24	0.143	34	1.176	5	-0.07	34
736			min	-0.039	33	-0.165	24	-1.57	3	-0.039	34	-0.154	24	0.07	34	-1.176	3
737		4	max	0.04	27	0.153	34	-0.094	34	0.021	24	0.071	34	0.588	5	-0.035	34
738			min	-0.039	33	-0.165	24	-1.571	3	-0.02	34	-0.077	24	0.035	34	-0.588	3
739		5	max	0.04	27	0.153	34	-0.094	34	0	35	0	35	0	35	0	35
740			min	-0.039	33	-0.165	24	-1.571	3	0	1	0	1	0	1	0	1
741	M75	1	max	0.039	35	0.139	34	-0.094	32	0.08	28	0.258	34	2.366	5	-0.141	32
742			min	-0.041	25	-0.158	28	-1.58	3	-0.071	34	-0.294	28	0.141	32	-2.366	3
743		2	max	0.039	35	0.139	34	-0.094	32	0.06	28	0.194	34	1.774	5	-0.106	32
744			min	-0.041	25	-0.158	28	-1.58	3	-0.053	34	-0.221	28	0.106	32	-1.774	3
745		3	max	0.039	35	0.139	34	-0.094	32	0.04	28	0.129	34	1.183	5	-0.071	32
746			min	-0.041	25	-0.158	28	-1.58	3	-0.035	34	-0.147	28	0.071	32	-1.183	3
747		4	max	0.039	35	0.139	34	-0.094	32	0.02	28	0.065	34	0.591	5	-0.035	32
748			min	-0.041	25	-0.158	28	-1.58	3	-0.018	34	-0.074	28	0.035	32	-0.591	3
749		5	max	0.039	35	0.139	34	-0.095	32	0	35	0	35	0	35	0	35
750			min	-0.041	25	-0.158	28	-1.58	3	0	1	0	1	0	1	0	1
751	M76	1	max	0.042	27	0.155	34	-0.094	33	0.081	24	0.289	34	2.35	5	-0.141	33
752			min	-0.039	33	-0.158	24	-1.569	3	-0.079	34	-0.295	24	0.141	33	-2.35	3
753		2	max	0.042	27	0.155	34	-0.094	33	0.061	24	0.216	34	1.763	5	-0.105	33
754			min	-0.039	33	-0.158	24	-1.569	3	-0.059	34	-0.221	24	0.105	33	-1.763	3

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
755		3	max	0.042	27	0.155	34	-0.094	33	0.04	24	0.144	34	1.175	5	-0.07	33
756			min	-0.039	33	-0.158	24	-1.57	3	-0.039	34	-0.148	24	0.07	33	-1.175	3
757		4	max	0.042	27	0.155	34	-0.094	33	0.02	24	0.072	34	0.588	5	-0.035	33
758			min	-0.039	33	-0.158	24	-1.57	3	-0.02	34	-0.074	24	0.035	33	-0.588	3
759		5	max	0.042	27	0.155	34	-0.094	33	0	35	0	35	0	35	0	35
760			min	-0.039	33	-0.158	24	-1.57	3	0	1	0	1	0	1	0	1
761	M77	1	max	0.059	31	0.397	22	0.308	16	2.17	8	7.915	10	0.548	22	3.762	16
762			min	-0.035	33	-0.404	8	-0.036	22	-2.164	10	-7.939	8	-3.762	16	-0.548	22
763		2	max	0.058	31	0.383	22	0.276	16	1.208	8	4.472	10	0.281	22	1.688	16
764			min	-0.034	33	-0.391	8	-0.039	22	-1.223	10	-4.418	8	-1.688	16	-0.281	22
765		3	max	0.057	31	0.369	22	0.247	16	0.285	20	1.151	10	0.232	29	0.089	27
766			min	-0.033	33	-0.377	8	-0.041	22	-0.315	10	-1.043	20	-0.089	27	-0.232	29
767		4	max	0.056	31	0.356	22	0.221	16	0.571	22	2.258	8	1.835	16	0.301	22
768			min	-0.032	33	-0.363	8	-0.043	22	-0.617	8	-2.088	22	-0.301	22	-1.835	16
769		5	max	0.055	31	0.342	22	0.185	16	1.416	22	5.415	8	3.291	16	0.615	22
770			min	-0.03	33	-0.35	8	-0.046	22	-1.48	8	-5.178	22	-0.615	22	-3.291	16
771	M78	1	max	0.013	30	0	35	0.005	31	0	35	0	35	0	35	0	35
772			min	-0.002	32	0	1	0	2	0	1	0	1	0	1	0	1
773		2	max	0.013	30	0	35	0.003	31	0	35	0	35	0.073	31	0	2
774			min	-0.002	32	0	1	0	2	0	1	0	1	0	2	-0.073	3
775		3	max	0.013	30	0	35	0	35	0	35	0	35	0.097	31	0	2
776			min	-0.002	32	0	1	0	1	0	1	0	1	0	2	-0.097	3
777		4	max	0.013	30	0	35	0	2	0	35	0	35	0.073	31	0	2
778			min	-0.002	32	0	1	-0.003	1	0	1	0	1	0	2	-0.073	3
779		5	max	0.013	30	0	35	0	2	0	35	0	35	0	35	0	35
780			min	-0.002	32	0	1	-0.005	1	0	1	0	1	0	1	0	1
781	M79	1	max	0.041	32	0.082	35	0.814	5	0	35	0	35	0	35	0	35
782			min	-0.044	26	-0.082	25	0.047	20	0	1	0	1	0	1	0	1
783		2	max	0.029	32	0.041	35	0.409	5	0.393	35	1.437	33	11.41	5	-0.662	35
784			min	-0.032	26	-0.041	25	0.024	20	-0.393	25	-1.437	27	0.662	20	-11.41	3
785		3	max	0.018	32	0.001	35	0.007	5	0.528	35	1.931	33	15.326	5	-0.889	35
786			min	-0.022	30	-0.001	25	0	20	-0.528	25	-1.931	27	0.889	20	-15.326	3
787		4	max	0.005	32	0.042	33	-0.024	35	0.397	35	1.451	33	11.52	5	-0.668	35
788			min	-0.013	30	-0.042	27	-0.415	3	-0.397	25	-1.451	27	0.668	20	-11.52	3
789		5	max	0.005	34	0.083	33	-0.048	35	0	35	0	35	0	35	0	35
790			min	-0.012	28	-0.083	27	-0.821	3	0	1	0	1	0	1	0	1
791	M80	1	max	0.051	33	0.087	33	0.934	5	0	35	0	35	0	35	0	35
792			min	-0.061	31	-0.087	27	0.095	20	0	1	0	1	0	1	0	1
793		2	max	0.051	33	0.044	33	0.468	5	0.416	33	1.522	35	13.128	5	-1.33	35
794			min	-0.061	31	-0.044	27	0.047	20	-0.416	27	-1.522	25	1.33	20	-13.128	3
795		3	max	0.051	33	0	35	0	35	0.555	33	2.029	35	17.504	5	-1.773	35
796			min	-0.061	31	0	1	0	1	-0.555	27	-2.029	25	1.773	20	-17.504	3
797		4	max	0.051	33	0.044	35	-0.047	35	0.416	33	1.522	35	13.128	5	-1.33	35
798			min	-0.061	31	-0.044	25	-0.468	3	-0.416	27	-1.522	25	1.33	20	-13.128	3
799		5	max	0.051	33	0.087	35	-0.095	35	0	35	0	35	0	35	0	35
800			min	-0.061	31	-0.087	25	-0.934	3	0	1	0	1	0	1	0	1
801	M81	1	max	0.845	31	0.002	32	0.001	29	0	31	0	25	0	35	0	35
802			min	-0.251	33	-0.003	30	0	35	0	25	0	31	0	1	0	1
803		2	max	0.843	31	0.002	32	0.001	29	0.045	32	0.053	30	0.013	29	0.005	35
804			min	-0.253	33	-0.003	30	0	35	-0.053	30	-0.045	32	-0.005	35	-0.013	29
805		3	max	0.841	31	0.002	32	0.001	29	0.089	32	0.107	30	0.025	29	0.011	35
806			min	-0.254	33	-0.003	30	0	35	-0.107	30	-0.089	32	-0.011	35	-0.025	29
807		4	max	0.839	31	0.002	32	0.001	29	0.134	32	0.16	30	0.038	29	0.016	35
808			min	-0.255	33	-0.003	30	0	35	-0.16	30	-0.134	32	-0.016	35	-0.038	29
809		5	max	0.837	31	0.002	32	0.001	29	0.178	32	0.213	30	0.051	29	0.022	35

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
810			min	-0.256	33	-0.003	30	0	35	-0.213	30	-0.178	32	-0.022	35	-0.051	29
811	M82	1	max	1.275	29	0.001	24	0.001	27	0	30	0	32	0	35	0	35
812			min	-0.221	35	-0.002	30	-0.001	33	0	32	0	30	0	1	0	1
813		2	max	1.273	29	0.001	24	0.001	27	0.019	24	0.032	30	0.015	27	0.014	33
814			min	-0.222	35	-0.002	30	-0.001	33	-0.032	30	-0.019	24	-0.014	33	-0.015	27
815		3	max	1.271	29	0.001	24	0.001	27	0.039	24	0.065	30	0.029	27	0.028	33
816			min	-0.223	35	-0.002	30	-0.001	33	-0.065	30	-0.039	24	-0.028	33	-0.029	27
817		4	max	1.269	29	0.001	24	0.001	27	0.058	24	0.097	30	0.044	27	0.042	33
818			min	-0.224	35	-0.002	30	-0.001	33	-0.097	30	-0.058	24	-0.042	33	-0.044	27
819		5	max	1.267	29	0.001	24	0.001	27	0.077	24	0.13	30	0.059	27	0.057	33
820			min	-0.225	35	-0.002	30	-0.001	33	-0.13	30	-0.077	24	-0.057	33	-0.059	27
821	M83	1	max	0.022	35	0.072	20	0.08	31	0	35	0	35	0	35	0	35
822			min	-0.085	29	-0.072	10	0	2	0	1	0	1	0	1	0	1
823		2	max	0.022	35	0.036	20	0.04	31	0.344	20	1.259	22	1.126	31	0	2
824			min	-0.085	29	-0.036	10	0	2	-0.344	10	-1.259	8	0	2	-1.126	1
825		3	max	0.022	35	0	35	0	35	0.459	20	1.678	22	1.501	31	0	2
826			min	-0.085	29	0	1	0	1	-0.459	10	-1.678	8	0	2	-1.501	1
827		4	max	0.022	35	0.036	22	0	2	0.344	20	1.259	22	1.126	31	0	2
828			min	-0.085	29	-0.036	8	-0.04	1	-0.344	10	-1.259	8	0	2	-1.126	1
829		5	max	0.022	35	0.072	22	0	2	0	35	0	35	0	35	0	35
830			min	-0.085	29	-0.072	8	-0.08	1	0	1	0	1	0	1	0	1
831	M84	1	max	0.033	24	0.082	35	0.814	5	0	35	0	35	0	35	0	35
832			min	-0.033	34	-0.082	25	0.047	20	0	1	0	1	0	1	0	1
833		2	max	0.021	24	0.041	35	0.41	5	0.393	35	1.437	33	11.412	5	-0.662	35
834			min	-0.021	34	-0.041	25	0.024	20	-0.393	25	-1.437	27	0.662	20	-11.412	3
835		3	max	0.015	10	0.001	35	0.007	5	0.528	35	1.931	33	15.331	5	-0.889	35
836			min	-0.015	20	-0.001	25	0	20	-0.528	25	-1.931	27	0.889	20	-15.331	3
837		4	max	0.015	10	0.042	33	-0.024	35	0.397	35	1.452	33	11.524	5	-0.668	35
838			min	-0.015	20	-0.042	27	-0.415	3	-0.397	25	-1.452	27	0.668	20	-11.524	3
839		5	max	0.015	26	0.083	33	-0.048	35	0	35	0	35	0	35	0	35
840			min	-0.015	32	-0.083	27	-0.821	3	0	1	0	1	0	1	0	1
841	M85	1	max	0.03	25	0.087	33	0.935	5	0	35	0	35	0	35	0	35
842			min	-0.027	35	-0.087	27	0.095	20	0	1	0	1	0	1	0	1
843		2	max	0.03	25	0.044	33	0.467	5	0.416	33	1.521	35	13.121	5	-1.33	35
844			min	-0.027	35	-0.044	27	0.047	20	-0.416	27	-1.521	25	1.33	20	-13.121	3
845		3	max	0.03	25	0	35	0	35	0.554	33	2.027	35	17.493	5	-1.773	35
846			min	-0.027	35	0	25	0	3	-0.554	27	-2.027	25	1.773	20	-17.493	3
847		4	max	0.03	25	0.043	35	-0.047	35	0.416	33	1.52	35	13.116	5	-1.329	35
848			min	-0.027	35	-0.043	25	-0.467	3	-0.416	27	-1.52	25	1.329	20	-13.116	3
849		5	max	0.031	24	0.087	35	-0.095	35	0	35	0	35	0	35	0	35
850			min	-0.028	34	-0.087	25	-0.934	3	0	1	0	1	0	1	0	1
851	M86	1	max	0.946	31	0.003	27	0	27	0	35	0	35	0	35	0	35
852			min	-0.369	33	0	2	0	29	0	1	0	1	0	1	0	1
853		2	max	0.947	31	0.001	27	0	27	0.016	27	0	2	0.036	27	0.005	2
854			min	-0.368	33	0	2	0	29	0	2	-0.016	27	-0.004	2	-0.044	27
855		3	max	0.948	31	0	2	0	27	0.018	27	0	2	0.042	27	0.01	2
856			min	-0.368	33	-0.001	25	0	29	0	2	-0.018	27	-0.008	2	-0.051	27
857		4	max	0.949	31	0	2	0	27	0.004	35	0.006	33	0.017	35	0.035	29
858			min	-0.367	33	-0.003	25	0	29	-0.006	33	-0.004	35	-0.028	29	-0.021	35
859		5	max	0.95	31	0	2	0	27	-0.001	2	0.039	25	-0.014	35	0.121	29
860			min	-0.366	33	-0.005	25	0	29	-0.039	25	0.001	2	-0.099	29	0.017	35
861	M87	1	max	1.689	5	0	32	0.002	31	0	35	0	35	0	35	0	35
862			min	0.178	34	0	30	-0.001	33	0	1	0	1	0	1	0	1
863		2	max	1.687	5	0	32	0.002	31	0.001	32	0.006	30	0.036	31	0.01	33
864			min	0.177	34	0	30	-0.001	33	-0.006	30	-0.001	32	-0.01	33	-0.036	31

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
865		3	max	1.685	5	0	32	0.002	31	0.002	32	0.013	30	0.071	31	0.019	33
866			min	0.176	34	0	30	-0.001	33	-0.013	30	-0.002	32	-0.019	33	-0.071	31
867		4	max	1.683	5	0	32	0.002	31	0.003	32	0.019	30	0.107	31	0.029	33
868			min	0.175	34	0	30	-0.001	33	-0.019	30	-0.003	32	-0.029	33	-0.107	31
869		5	max	1.681	5	0	32	0.002	31	0.004	32	0.025	30	0.142	31	0.038	33
870			min	0.173	34	0	30	-0.001	33	-0.025	30	-0.004	32	-0.038	33	-0.142	31
871	M88	1	max	2.888	5	0.001	32	0.001	35	0	35	0	35	0	35	0	35
872			min	0.191	35	-0.002	30	-0.001	25	0	1	0	1	0	1	0	1
873		2	max	2.886	5	0.001	32	0.001	35	0.026	32	0.043	30	0.02	35	0.02	25
874			min	0.19	35	-0.002	30	-0.001	25	-0.043	30	-0.026	32	-0.02	25	-0.02	35
875		3	max	2.884	5	0.001	32	0.001	35	0.051	32	0.086	30	0.039	35	0.04	25
876			min	0.189	35	-0.002	30	-0.001	25	-0.086	30	-0.051	32	-0.04	25	-0.039	35
877		4	max	2.882	5	0.001	32	0.001	35	0.077	32	0.129	30	0.059	35	0.06	25
878			min	0.187	35	-0.002	30	-0.001	25	-0.129	30	-0.077	32	-0.06	25	-0.059	35
879		5	max	2.88	5	0.001	32	0.001	35	0.103	32	0.172	30	0.079	35	0.08	25
880			min	0.186	35	-0.002	30	-0.001	25	-0.172	30	-0.103	32	-0.08	25	-0.079	35
881	M89	1	max	0.696	29	0.003	15	0	35	0	35	0	35	0	35	0	35
882			min	-0.365	35	0	2	0	1	0	1	0	1	0	1	0	1
883		2	max	0.695	29	0.002	15	0	35	0.023	15	0	2	0.046	29	0	2
884			min	-0.365	35	0	2	0	1	0	2	-0.023	15	0	2	-0.056	15
885		3	max	0.694	29	0	35	0	35	0.03	15	0	2	0.061	29	0	2
886			min	-0.366	35	0	1	0	1	0	2	-0.03	15	0	2	-0.075	15
887		4	max	0.693	29	0	2	0	35	0.023	15	0	2	0.046	29	0	2
888			min	-0.366	35	-0.002	16	0	1	0	2	-0.023	15	0	2	-0.056	15
889		5	max	0.692	29	0	2	0	35	0	35	0	35	0	35	0	35
890			min	-0.367	35	-0.003	16	0	1	0	1	0	1	0	1	0	1
891	M90	1	max	0.689	29	0.003	31	0	35	0	35	0	35	0	35	0	35
892			min	-0.369	35	0	2	0	1	0	1	0	1	0	1	0	1
893		2	max	0.688	29	0.002	31	0	35	0.023	31	0	2	0.046	29	0	2
894			min	-0.369	35	0	2	0	1	0	2	-0.023	31	0	2	-0.056	12
895		3	max	0.687	29	0	35	0	35	0.03	31	0	2	0.061	29	0	2
896			min	-0.37	35	0	1	0	1	0	2	-0.03	31	0	2	-0.075	12
897		4	max	0.686	29	0	2	0	35	0.023	31	0	2	0.046	29	0	2
898			min	-0.371	35	-0.002	7	0	1	0	2	-0.023	31	0	2	-0.056	12
899		5	max	0.685	29	0	2	0	35	0	35	0	35	0	35	0	35
900			min	-0.371	35	-0.003	7	0	1	0	1	0	1	0	1	0	1
901	M91	1	max	0.952	31	0.005	25	0	29	-0.001	2	0.039	25	-0.014	35	0.121	29
902			min	-0.365	33	0	2	0	27	-0.039	25	0.001	2	-0.099	29	0.017	35
903		2	max	0.953	31	0.003	25	0	29	0.004	35	0.006	33	0.017	35	0.035	29
904			min	-0.364	33	0	2	0	27	-0.006	33	-0.004	35	-0.028	29	-0.021	35
905		3	max	0.954	31	0.001	25	0	29	0.018	27	0	2	0.041	27	0.01	2
906			min	-0.364	33	0	2	0	27	0	2	-0.018	27	-0.008	2	-0.051	27
907		4	max	0.955	31	0	2	0	29	0.016	27	0	2	0.036	27	0.005	2
908			min	-0.363	33	-0.001	27	0	27	0	2	-0.016	27	-0.004	2	-0.044	27
909		5	max	0.956	31	0	2	0	29	0	35	0	35	0	35	0	35
910			min	-0.363	33	-0.003	27	0	27	0	1	0	1	0	1	0	1
911	M92	1	max	0.006	33	0.004	8	0.037	5	0	35	0	35	0	35	0	35
912			min	-0.011	31	-0.004	22	0.005	33	0	1	0	1	0	1	0	1
913		2	max	0.006	33	0.004	8	0.035	5	0.027	8	0.096	22	0.658	5	-0.078	33
914			min	-0.011	31	-0.004	22	0.003	33	-0.026	22	-0.098	8	0.078	33	-0.658	3
915		3	max	0.006	33	0.004	8	0.032	5	0.054	8	0.192	22	1.27	5	-0.127	33
916			min	-0.011	31	-0.004	22	0.002	33	-0.052	22	-0.196	8	0.127	33	-1.27	3
917		4	max	0.006	33	0.004	8	0.03	5	0.08	8	0.287	22	1.836	5	-0.149	33
918			min	-0.011	31	-0.004	22	0	33	-0.079	22	-0.294	8	0.149	33	-1.836	3
919		5	max	0.006	33	0.004	8	0.029	2	0.107	8	0.383	22	2.355	5	-0.143	33

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
920			min	-0.011	31	-0.004	22	-0.002	25	-0.105	22	-0.392	8	0.143	33	-2.355	3
921	M93	1	max	0.081	28	0.086	35	0.92	5	0	35	0	35	0	35	0	35
922			min	-0.06	34	-0.086	25	0.094	20	0	1	0	1	0	1	0	1
923		2	max	0.072	28	0.043	35	0.46	5	0.409	35	1.496	33	12.924	5	-1.319	35
924			min	-0.048	34	-0.043	25	0.047	20	-0.409	25	-1.496	27	1.319	20	-12.924	3
925		3	max	0.071	31	0	35	0	35	0.545	35	1.994	33	17.232	5	-1.759	35
926			min	-0.046	33	0	1	0	3	-0.545	25	-1.994	27	1.759	20	-17.232	3
927		4	max	0.071	31	0.043	33	-0.047	35	0.409	35	1.496	33	12.924	5	-1.319	35
928			min	-0.046	33	-0.043	27	-0.46	3	-0.409	25	-1.496	27	1.319	20	-12.924	3
929		5	max	0.071	31	0.086	33	-0.094	35	0	35	0	35	0	35	0	35
930			min	-0.046	33	-0.086	27	-0.92	3	0	1	0	1	0	1	0	1
931	M94	1	max	0.92	5	0.002	24	0.001	35	0	35	0	35	0	35	0	35
932			min	0.133	32	-0.002	34	-0.001	29	0	1	0	1	0	1	0	1
933		2	max	0.918	5	0.002	24	0.001	35	0.043	24	0.042	34	0.02	35	0.021	29
934			min	0.132	32	-0.002	34	-0.001	29	-0.042	34	-0.043	24	-0.021	29	-0.02	35
935		3	max	0.916	5	0.002	24	0.001	35	0.085	24	0.084	34	0.04	35	0.043	29
936			min	0.131	32	-0.002	34	-0.001	29	-0.084	34	-0.085	24	-0.043	29	-0.04	35
937		4	max	0.914	5	0.002	24	0.001	35	0.128	24	0.127	34	0.06	35	0.064	29
938			min	0.13	32	-0.002	34	-0.001	29	-0.127	34	-0.128	24	-0.064	29	-0.06	35
939		5	max	0.912	5	0.002	24	0.001	35	0.17	24	0.169	34	0.08	35	0.086	29
940			min	0.128	32	-0.002	34	-0.001	29	-0.169	34	-0.17	24	-0.086	29	-0.08	35
941	M95	1	max	0.032	31	0.064	8	0.096	5	0	35	0	35	0	35	0	35
942			min	-0.027	33	-0.064	22	0.014	2	0	1	0	1	0	1	0	1
943		2	max	0.032	31	0.029	8	0.057	5	0.292	8	1.066	22	1.402	5	-0.265	2
944			min	-0.027	33	-0.029	22	0.014	2	-0.291	22	-1.067	8	0.265	2	-1.402	3
945		3	max	0.032	31	0.006	10	0.017	5	0.363	8	1.326	22	2.083	5	-0.53	2
946			min	-0.027	33	-0.006	20	0.002	20	-0.362	22	-1.328	8	0.53	2	-2.083	3
947		4	max	0.032	31	0.042	10	0.014	2	0.214	8	0.78	22	2.044	5	-0.749	20
948			min	-0.027	33	-0.041	20	-0.036	8	-0.213	22	-0.784	8	0.749	20	-2.044	3
949		5	max	0.032	31	0.077	10	0.014	2	0.156	10	0.568	20	1.284	5	-0.135	20
950			min	-0.027	33	-0.077	20	-0.076	8	-0.155	20	-0.572	10	0.135	20	-1.284	3
951	M96	1	max	0.037	28	0.086	35	0.92	5	0	35	0	35	0	35	0	35
952			min	-0.035	34	-0.086	25	0.094	20	0	1	0	1	0	1	0	1
953		2	max	0.028	28	0.043	35	0.46	5	0.409	35	1.496	33	12.924	5	-1.319	35
954			min	-0.022	34	-0.043	25	0.047	20	-0.409	25	-1.496	27	1.319	20	-12.924	3
955		3	max	0.024	31	0	35	0	35	0.545	35	1.994	33	17.232	5	-1.759	35
956			min	-0.017	33	0	1	0	3	-0.545	25	-1.994	27	1.759	20	-17.232	3
957		4	max	0.024	31	0.043	33	-0.047	35	0.409	35	1.496	33	12.924	5	-1.319	35
958			min	-0.017	33	-0.043	27	-0.46	3	-0.409	25	-1.496	27	1.319	20	-12.924	3
959		5	max	0.024	31	0.086	33	-0.094	35	0	35	0	35	0	35	0	35
960			min	-0.017	33	-0.086	27	-0.92	3	0	1	0	1	0	1	0	1
961	M97	1	max	1.695	5	0	33	0.001	35	0	35	0	35	0	35	0	35
962			min	0.18	34	-0.001	31	-0.002	29	0	1	0	1	0	1	0	1
963		2	max	1.693	5	0	33	0.001	35	0.006	33	0.015	31	0.01	35	0.035	29
964			min	0.179	34	-0.001	31	-0.002	29	-0.015	31	-0.006	33	-0.035	29	-0.01	35
965		3	max	1.691	5	0	33	0.001	35	0.011	33	0.03	31	0.019	35	0.071	29
966			min	0.177	34	-0.001	31	-0.002	29	-0.03	31	-0.011	33	-0.071	29	-0.019	35
967		4	max	1.689	5	0	33	0.001	35	0.017	33	0.045	31	0.029	35	0.106	29
968			min	0.176	34	-0.001	31	-0.002	29	-0.045	31	-0.017	33	-0.106	29	-0.029	35
969		5	max	1.687	5	0	33	0.001	35	0.022	33	0.06	31	0.039	35	0.141	29
970			min	0.175	34	-0.001	31	-0.002	29	-0.06	31	-0.022	33	-0.141	29	-0.039	35
971	M98	1	max	0.049	20	0.081	33	-0.046	35	0	35	0	35	0	35	0	35
972			min	-0.051	10	-0.081	27	-0.799	3	0	1	0	1	0	1	0	1
973		2	max	0.049	20	0.041	33	-0.023	35	0.386	33	1.412	35	-0.651	35	11.214	5
974			min	-0.051	10	-0.041	27	-0.403	3	-0.386	27	-1.412	25	-11.214	3	0.651	20

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
975		3	max	0.049	20	0.001	35	0.007	5	0.513	33	1.878	35	-0.866	35	14.909	5
976			min	-0.051	10	-0.001	25	0	20	-0.513	27	-1.878	25	-14.909	3	0.866	20
977		4	max	0.049	20	0.04	35	0.397	5	0.383	33	1.401	35	-0.647	35	11.127	5
978			min	-0.051	10	-0.04	25	0.023	20	-0.383	27	-1.401	25	-11.127	3	0.647	20
979		5	max	0.049	20	0.081	35	0.798	5	0	35	0	35	0	35	0	35
980			min	-0.051	10	-0.081	25	0.046	20	0	1	0	1	0	1	0	1
981	M99	1	max	0.11	20	0.081	33	-0.046	35	0	35	0	35	0	35	0	35
982			min	-0.111	10	-0.081	27	-0.8	3	0	1	0	1	0	1	0	1
983		2	max	0.11	20	0.041	33	-0.023	35	0.387	33	1.414	35	-0.652	35	11.229	5
984			min	-0.111	10	-0.041	27	-0.404	3	-0.387	27	-1.414	25	-11.229	3	0.652	20
985		3	max	0.11	20	0.001	35	0.006	5	0.514	33	1.881	35	-0.867	35	14.932	5
986			min	-0.111	10	-0.001	25	0	20	-0.514	27	-1.881	25	-14.932	3	0.867	20
987		4	max	0.11	20	0.04	35	0.397	5	0.384	33	1.404	35	-0.648	35	11.151	5
988			min	-0.111	10	-0.04	25	0.023	20	-0.384	27	-1.404	25	-11.151	3	0.648	20
989		5	max	0.11	20	0.081	35	0.797	5	0	35	0	35	0	35	0	35
990			min	-0.111	10	-0.081	25	0.046	20	0	1	0	1	0	1	0	1
991	M100	1	max	0.039	35	0.206	22	-0.094	20	0.107	8	0.383	22	2.353	5	-0.141	20
992			min	-0.041	25	-0.21	8	-1.572	3	-0.105	22	-0.392	8	0.141	20	-2.353	3
993		2	max	0.039	35	0.206	22	-0.094	20	0.08	8	0.287	22	1.765	5	-0.106	20
994			min	-0.041	25	-0.21	8	-1.572	3	-0.079	22	-0.294	8	0.106	20	-1.765	3
995		3	max	0.039	35	0.206	22	-0.094	20	0.054	8	0.192	22	1.177	5	-0.07	20
996			min	-0.041	25	-0.21	8	-1.572	3	-0.052	22	-0.196	8	0.07	20	-1.177	3
997		4	max	0.039	35	0.206	22	-0.094	20	0.027	8	0.096	22	0.588	5	-0.035	20
998			min	-0.041	25	-0.21	8	-1.572	3	-0.026	22	-0.098	8	0.035	20	-0.588	3
999		5	max	0.039	35	0.206	22	-0.094	20	0	35	0	35	0	35	0	35
1000			min	-0.041	25	-0.21	8	-1.572	3	0	1	0	1	0	1	0	1
1001	M101	1	max	0.053	27	0.304	20	-0.092	33	0.156	10	0.568	20	1.285	5	-0.137	33
1002			min	-0.051	33	-0.307	10	-0.858	3	-0.155	20	-0.572	10	0.137	33	-1.285	3
1003		2	max	0.053	27	0.304	20	-0.092	33	0.117	10	0.426	20	0.964	5	-0.103	33
1004			min	-0.051	33	-0.307	10	-0.858	3	-0.116	20	-0.429	10	0.103	33	-0.964	3
1005		3	max	0.053	27	0.304	20	-0.092	33	0.078	10	0.284	20	0.643	5	-0.069	33
1006			min	-0.051	33	-0.307	10	-0.858	3	-0.078	20	-0.286	10	0.069	33	-0.643	3
1007		4	max	0.053	27	0.304	20	-0.092	33	0.039	10	0.142	20	0.321	5	-0.034	33
1008			min	-0.051	33	-0.307	10	-0.858	3	-0.039	20	-0.143	10	0.034	33	-0.321	3
1009		5	max	0.053	27	0.304	20	-0.092	33	0	35	0	35	0	35	0	35
1010			min	-0.051	33	-0.307	10	-0.859	3	0	1	0	1	0	1	0	1
1011	M102	1	max	0.969	31	0.003	5	0	35	0	35	0	35	0	35	0	35
1012			min	-0.546	33	0	2	0	1	0	1	0	1	0	1	0	1
1013		2	max	0.97	31	0.002	5	0	35	0.023	5	0	2	0.046	5	0	2
1014			min	-0.545	33	0	2	0	1	0	2	-0.023	3	0	2	-0.056	3
1015		3	max	0.971	31	0	35	0	35	0.03	5	0	2	0.061	5	0	2
1016			min	-0.545	33	0	1	0	1	0	2	-0.03	3	0	2	-0.075	3
1017		4	max	0.972	31	0	2	0	35	0.023	5	0	2	0.046	5	0	2
1018			min	-0.544	33	-0.002	16	0	1	0	2	-0.023	3	0	2	-0.056	3
1019		5	max	0.973	31	0	2	0	35	0	35	0	35	0	35	0	35
1020			min	-0.543	33	-0.003	16	0	1	0	1	0	1	0	1	0	1
1021	M103	1	max	1.543	29	0.003	5	0	25	0	35	0	35	0	35	0	35
1022			min	-0.477	35	0	2	-0.002	31	0	1	0	1	0	1	0	1
1023		2	max	1.542	29	0.001	5	0	25	0.037	31	-0.007	32	0.037	25	0.018	2
1024			min	-0.478	35	0	2	-0.002	31	0.007	32	-0.037	31	-0.015	2	-0.046	25
1025		3	max	1.541	29	0	2	0	25	0.058	31	-0.005	32	0.044	25	0.037	2
1026			min	-0.478	35	-0.001	27	-0.002	31	0.005	32	-0.058	31	-0.03	2	-0.054	25
1027		4	max	1.54	29	0	2	0	25	0.065	31	0.006	32	0.021	33	0.101	31
1028			min	-0.479	35	-0.003	27	-0.002	31	-0.006	32	-0.065	31	-0.083	31	-0.026	33
1029		5	max	1.539	29	0	2	0	25	0.057	31	0.038	24	-0.009	33	0.21	31

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1030			min	-0.48	35	-0.005	27	-0.002	31	-0.038	24	-0.057	31	-0.171	31	0.011	33
1031	M104	1	max	1.537	29	0.005	27	0.002	31	0.057	31	0.038	24	-0.009	33	0.21	31
1032			min	-0.481	35	0	2	0	25	-0.038	24	-0.057	31	-0.171	31	0.011	33
1033		2	max	1.536	29	0.003	27	0.002	31	0.065	31	0.006	32	0.021	33	0.101	31
1034			min	-0.482	35	0	2	0	25	-0.006	32	-0.065	31	-0.083	31	-0.026	33
1035		3	max	1.535	29	0.001	27	0.002	31	0.059	31	-0.005	32	0.044	25	0.037	2
1036			min	-0.482	35	0	2	0	25	0.005	32	-0.059	31	-0.03	2	-0.054	25
1037		4	max	1.534	29	0	2	0.002	31	0.037	31	-0.007	32	0.037	25	0.019	2
1038			min	-0.483	35	-0.001	3	0	25	0.007	32	-0.037	31	-0.015	2	-0.046	25
1039		5	max	1.533	29	0	2	0.002	31	0	35	0	35	0	35	0	35
1040			min	-0.483	35	-0.003	3	0	25	0	1	0	1	0	1	0	1
1041	M105	1	max	0.976	31	0.003	16	0	35	0	35	0	35	0	35	0	35
1042			min	-0.542	33	0	2	0	1	0	1	0	1	0	1	0	1
1043		2	max	0.977	31	0.002	16	0	35	0.023	16	0	2	0.046	24	0	2
1044			min	-0.541	33	0	2	0	1	0	2	-0.023	16	0	2	-0.056	24
1045		3	max	0.977	31	0	35	0	35	0.03	16	0	2	0.061	24	0	2
1046			min	-0.541	33	0	1	0	1	0	2	-0.03	16	0	2	-0.075	24
1047		4	max	0.978	31	0	2	0	35	0.023	16	0	2	0.046	24	0	2
1048			min	-0.54	33	-0.002	3	0	1	0	2	-0.023	16	0	2	-0.056	24
1049		5	max	0.979	31	0	2	0	35	0	35	0	35	0	35	0	35
1050			min	-0.539	33	-0.003	3	0	1	0	1	0	1	0	1	0	1
1051	M106	1	max	1.318	28	0.003	24	0.001	28	0	35	0	35	0	35	0	35
1052			min	-0.699	34	0	2	-0.001	30	0	1	0	1	0	1	0	1
1053		2	max	1.317	28	0.001	24	0.001	28	0.02	30	0	2	0.042	24	0	2
1054			min	-0.699	34	0	2	-0.001	30	0	2	-0.02	30	0	2	-0.052	24
1055		3	max	1.316	28	0	2	0.001	28	0.025	30	-0.001	2	0.054	24	0.006	34
1056			min	-0.7	34	-0.001	26	-0.001	30	0.001	2	-0.025	30	-0.005	34	-0.066	24
1057		4	max	1.315	28	0	2	0.001	28	0.015	30	0.012	28	0.036	24	0.043	26
1058			min	-0.701	34	-0.003	26	-0.001	30	-0.012	28	-0.015	30	-0.035	26	-0.044	24
1059		5	max	1.314	28	0	2	0.001	28	0.001	2	0.047	28	0.01	32	0.132	26
1060			min	-0.701	34	-0.005	26	-0.001	30	-0.047	28	-0.001	2	-0.107	26	-0.012	32
1061	M107	1	max	1.203	30	0.003	19	0	35	0	35	0	35	0	35	0	35
1062			min	-0.71	32	0	2	0	1	0	1	0	1	0	1	0	1
1063		2	max	1.202	30	0.002	19	0	35	0.023	24	0	2	0.046	30	0	2
1064			min	-0.711	32	0	2	0	1	0	2	-0.023	24	0	2	-0.056	17
1065		3	max	1.201	30	0	35	0	35	0.03	24	0	2	0.061	30	0	2
1066			min	-0.711	32	0	1	0	1	0	2	-0.03	24	0	2	-0.075	17
1067		4	max	1.2	30	0	2	0	35	0.023	24	0	2	0.046	30	0	2
1068			min	-0.712	32	-0.002	26	0	1	0	2	-0.023	24	0	2	-0.056	17
1069		5	max	1.199	30	0	2	0	35	0	35	0	35	0	35	0	35
1070			min	-0.712	32	-0.003	26	0	1	0	1	0	1	0	1	0	1
1071	M108	1	max	1.183	28	0.003	28	0	35	0	35	0	35	0	35	0	35
1072			min	-0.782	34	0	2	0	1	0	1	0	1	0	1	0	1
1073		2	max	1.182	28	0.002	28	0	35	0.023	28	0	2	0.046	28	0	2
1074			min	-0.782	34	0	2	0	1	0	2	-0.023	26	0	2	-0.056	28
1075		3	max	1.181	28	0	35	0	35	0.03	28	0	2	0.061	28	0	2
1076			min	-0.783	34	0	1	0	1	0	2	-0.03	26	0	2	-0.075	28
1077		4	max	1.18	28	0	2	0	35	0.023	28	0	2	0.046	28	0	2
1078			min	-0.783	34	-0.002	12	0	1	0	2	-0.023	26	0	2	-0.056	28
1079		5	max	1.179	28	0	2	0	35	0	35	0	35	0	35	0	35
1080			min	-0.784	34	-0.003	12	0	1	0	1	0	1	0	1	0	1
1081	M109	1	max	1.234	30	0.003	26	0	26	0	35	0	35	0	35	0	35
1082			min	-0.693	32	0	2	-0.001	28	0	1	0	1	0	1	0	1
1083		2	max	1.233	30	0.001	26	0	26	0.02	28	0	2	0.04	26	0.004	2
1084			min	-0.694	32	0	2	-0.001	28	0	2	-0.02	28	-0.003	2	-0.049	26

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1085		3	max	1.232	30	0	2	0	26	0.024	28	-0.001	2	0.05	26	0.007	2
1086			min	-0.694	32	-0.001	24	-0.001	28	0.001	2	-0.024	28	-0.006	2	-0.061	26
1087		4	max	1.231	30	0	2	0	26	0.014	28	0.005	27	0.029	34	0.049	28
1088			min	-0.695	32	-0.003	24	-0.001	28	-0.005	27	-0.014	28	-0.04	28	-0.036	34
1089		5	max	1.23	30	0	2	0	26	0.002	2	0.037	27	0.003	34	0.14	28
1090			min	-0.696	32	-0.005	24	-0.001	28	-0.037	27	-0.002	2	-0.114	28	-0.003	34
1091	M110	1	max	1.196	30	0.003	31	0	35	0	35	0	35	0	35	0	35
1092			min	-0.714	32	0	2	0	1	0	1	0	1	0	1	0	1
1093		2	max	1.195	30	0.002	31	0	35	0.023	31	0	2	0.046	31	0	2
1094			min	-0.715	32	0	2	0	1	0	2	-0.023	31	0	2	-0.056	31
1095		3	max	1.194	30	0	35	0	35	0.03	31	0	2	0.061	31	0	2
1096			min	-0.715	32	0	1	0	1	0	2	-0.03	31	0	2	-0.075	31
1097		4	max	1.193	30	0	2	0	35	0.023	31	0	2	0.046	31	0	2
1098			min	-0.716	32	-0.002	30	0	1	0	2	-0.023	31	0	2	-0.056	31
1099		5	max	1.192	30	0	2	0	35	0	35	0	35	0	35	0	35
1100			min	-0.716	32	-0.003	30	0	1	0	1	0	1	0	1	0	1
1101	M111	1	max	1.312	28	0.005	26	0.001	30	0.001	2	0.047	28	0.009	32	0.131	26
1102			min	-0.703	34	0	2	-0.001	28	-0.047	28	-0.001	2	-0.107	26	-0.012	32
1103		2	max	1.311	28	0.003	26	0.001	30	0.014	30	0.012	28	0.035	24	0.042	26
1104			min	-0.703	34	0	2	-0.001	28	-0.012	28	-0.014	30	-0.035	26	-0.043	24
1105		3	max	1.31	28	0.001	26	0.001	30	0.025	30	-0.001	2	0.054	24	0.005	34
1106			min	-0.704	34	0	2	-0.001	28	0.001	2	-0.025	30	-0.004	34	-0.066	24
1107		4	max	1.309	28	0	2	0.001	30	0.02	30	0	2	0.042	24	0	2
1108			min	-0.704	34	-0.001	24	-0.001	28	0	2	-0.02	30	0	2	-0.052	24
1109		5	max	1.308	28	0	2	0.001	30	0	35	0	35	0	35	0	35
1110			min	-0.705	34	-0.003	24	-0.001	28	0	1	0	1	0	1	0	1
1111	M112	1	max	1.228	30	0.005	24	0.001	28	0.002	2	0.037	27	0.003	34	0.14	28
1112			min	-0.697	32	0	2	0	26	-0.037	27	-0.002	2	-0.114	28	-0.003	34
1113		2	max	1.227	30	0.003	24	0.001	28	0.014	28	0.005	27	0.029	34	0.049	28
1114			min	-0.698	32	0	2	0	26	-0.005	27	-0.014	28	-0.04	28	-0.036	34
1115		3	max	1.226	30	0.001	24	0.001	28	0.024	28	-0.001	2	0.05	26	0.007	2
1116			min	-0.698	32	0	2	0	26	0.001	2	-0.024	28	-0.006	2	-0.061	26
1117		4	max	1.225	30	0	2	0.001	28	0.02	28	0	2	0.04	26	0.004	2
1118			min	-0.699	32	-0.001	26	0	26	0	2	-0.02	28	-0.003	2	-0.049	26
1119		5	max	1.224	30	0	2	0.001	28	0	35	0	35	0	35	0	35
1120			min	-0.699	32	-0.003	26	0	26	0	1	0	1	0	1	0	1
1121	M113	1	max	1.176	28	0.003	30	0	35	0	35	0	35	0	35	0	35
1122			min	-0.786	34	0	2	0	1	0	1	0	1	0	1	0	1
1123		2	max	1.175	28	0.002	30	0	35	0.023	30	0	2	0.046	30	0	2
1124			min	-0.786	34	0	2	0	1	0	2	-0.023	10	0	2	-0.056	12
1125		3	max	1.174	28	0	35	0	35	0.03	30	0	2	0.061	30	0	2
1126			min	-0.787	34	0	1	0	1	0	2	-0.03	10	0	2	-0.075	12
1127		4	max	1.173	28	0	2	0	35	0.023	30	0	2	0.046	30	0	2
1128			min	-0.788	34	-0.002	24	0	1	0	2	-0.023	10	0	2	-0.056	12
1129		5	max	1.172	28	0	2	0	35	0	35	0	35	0	35	0	35
1130			min	-0.788	34	-0.003	24	0	1	0	1	0	1	0	1	0	1

Envelope Member Section Deflections - Service

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1	M1	1	max	0	35	0	35	0	35	0	33	NC	35	NC	35
2			min	0	1	0	1	0	1	0	31	NC	1	NC	1
3		2	max	0.001	34	0.006	26	0.006	33	0	33	NC	35	NC	35
4			min	-0.004	28	-0.006	32	-0.009	31	0	31	NC	1	NC	1
5		3	max	0.002	34	0.012	26	0.011	33	0	33	NC	35	NC	35
6			min	-0.008	28	-0.012	32	-0.016	31	0	31	6606.179	32	7997.938	30

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
7		4	max	0.004	34	0.018	26	0.015	33	0	33	NC	35	NC	35
8			min	-0.012	28	-0.018	32	-0.019	31	0	31	4389.271	32	9141.062	30
9		5	max	0.005	34	0.024	34	0.018	25	0	33	NC	35	NC	35
10			min	-0.016	28	-0.024	24	-0.018	35	0	31	3256.866	24	5969.676	29
11	M2	1	max	0	35	0	35	0	35	0.001	5	NC	35	NC	35
12			min	0	1	0	1	0	1	0	35	NC	1	NC	1
13		2	max	0.001	33	0.004	34	0.005	25	0.001	5	NC	35	NC	35
14			min	-0.002	31	-0.007	28	-0.003	35	0	35	NC	1	NC	1
15		3	max	0.002	33	0.009	34	0.01	25	0.001	5	NC	35	NC	35
16			min	-0.004	31	-0.014	28	-0.007	35	0	35	7478.259	24	NC	1
17		4	max	0.003	33	0.015	34	0.014	25	0.001	5	NC	35	NC	34
18			min	-0.007	31	-0.019	28	-0.011	35	0	35	4644.568	24	7106.243	35
19		5	max	0.004	33	0.024	34	0.017	25	0.001	5	NC	35	NC	34
20			min	-0.009	31	-0.025	24	-0.017	35	0	35	3179.893	24	4738.769	35
21	M3	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
22			min	0	1	0	1	0	1	0	1	NC	1	NC	1
23		2	max	0	33	0.009	26	0.007	25	0	35	NC	35	NC	35
24			min	-0.007	3	-0.009	32	-0.007	35	0	1	NC	1	NC	1
25		3	max	-0.001	33	0.017	26	0.014	25	0	35	NC	35	NC	35
26			min	-0.014	3	-0.016	32	-0.013	35	0	1	8406.091	28	NC	1
27		4	max	-0.001	33	0.022	26	0.018	25	0	35	NC	35	NC	35
28			min	-0.021	3	-0.022	32	-0.017	35	0	1	5488.732	28	NC	1
29		5	max	-0.002	33	0.024	34	0.018	25	0	35	NC	35	NC	35
30			min	-0.028	3	-0.025	24	-0.018	35	0	1	4001.268	28	NC	1
31	M4	1	max	0	35	0	35	0	35	0.001	29	NC	35	NC	35
32			min	0	1	0	1	0	1	0	35	NC	1	NC	1
33		2	max	0.001	35	0.009	34	0.005	33	0.001	29	NC	35	NC	35
34			min	-0.004	29	-0.009	28	-0.007	27	0	35	NC	1	NC	1
35		3	max	0.001	35	0.016	34	0.01	33	0.001	29	NC	35	NC	35
36			min	-0.009	29	-0.016	24	-0.013	27	0	35	NC	1	NC	1
37		4	max	0.002	35	0.022	34	0.014	33	0.001	29	NC	35	NC	35
38			min	-0.013	29	-0.022	24	-0.017	27	0	35	NC	1	7255.371	29
39		5	max	0.003	35	0.024	34	0.017	25	0.001	29	NC	35	NC	35
40			min	-0.017	29	-0.025	24	-0.017	35	0	35	NC	1	5224.253	29
41	M5	1	max	0.017	35	0.024	34	0.003	33	0	30	NC	35	NC	35
42			min	-0.017	25	-0.025	24	-0.021	31	0	32	NC	1	NC	1
43		2	max	0.017	35	0.024	34	0.001	33	0	20	NC	35	NC	35
44			min	-0.017	25	-0.024	24	-0.02	31	0	18	NC	1	NC	1
45		3	max	0.017	35	0.024	34	0	32	0	32	NC	35	NC	35
46			min	-0.017	25	-0.024	24	-0.018	30	0	30	NC	1	NC	1
47		4	max	0.017	35	0.024	34	0.002	32	0	32	NC	35	NC	35
48			min	-0.017	25	-0.024	24	-0.017	30	0	30	NC	1	NC	1
49		5	max	0.017	35	0.024	34	0.005	32	0	32	NC	35	NC	35
50			min	-0.017	25	-0.024	24	-0.015	30	0	30	NC	1	NC	1
51	M6	1	max	0.024	34	0.018	25	-0.002	33	0	25	NC	35	NC	35
52			min	-0.025	24	-0.018	35	-0.028	3	0	35	NC	1	NC	1
53		2	max	0.024	34	0.058	25	-0.015	33	0	25	NC	34	4091.515	22
54			min	-0.025	24	-0.058	35	-0.279	3	0	35	1479.447	27	237.31	3
55		3	max	0.024	34	0.075	25	-0.02	33	0	25	NC	34	2910.936	35
56			min	-0.025	24	-0.075	35	-0.379	3	0	35	1052.454	25	168.82	3
57		4	max	0.024	34	0.058	25	-0.013	33	0	29	NC	34	4081.949	35
58			min	-0.025	24	-0.058	35	-0.275	3	0	35	1475.746	33	236.72	3
59		5	max	0.024	34	0.017	25	0.003	33	0	29	NC	35	NC	35
60			min	-0.025	24	-0.017	35	-0.021	31	0	35	NC	1	NC	1
61	M7	1	max	0.024	34	0.018	25	-0.002	35	0	33	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
62			min	-0.025	24	-0.018	35	-0.028	3	0	27	NC	1	NC	1
63		2	max	0.024	34	0.059	25	-0.017	35	0	33	NC	34	4092.361	34
64			min	-0.025	24	-0.058	35	-0.281	3	0	27	1479.774	27	237.363	3
65		3	max	0.024	34	0.075	25	-0.022	34	0	33	NC	34	2911.506	34
66			min	-0.025	24	-0.075	35	-0.384	3	0	27	1052.675	27	168.856	3
67		4	max	0.024	34	0.059	25	-0.017	33	0	25	NC	34	4082.626	34
68			min	-0.025	24	-0.059	35	-0.282	3	0	35	1476.008	25	236.762	3
69		5	max	0.024	34	0.018	25	-0.002	33	0	25	NC	35	NC	35
70			min	-0.025	24	-0.018	35	-0.028	3	0	35	NC	1	NC	1
71	M8	1	max	0.024	34	0.017	25	0.003	35	0	22	NC	35	NC	35
72			min	-0.025	24	-0.017	35	-0.017	29	0	16	NC	1	NC	1
73		2	max	0.024	34	0.059	25	-0.013	35	0	22	NC	34	4031.747	33
74			min	-0.025	24	-0.058	35	-0.275	3	0	16	1456.344	25	233.628	3
75		3	max	0.024	34	0.076	25	-0.02	35	0	22	NC	34	2870.513	34
76			min	-0.025	24	-0.075	35	-0.382	3	0	16	1036.831	33	166.33	3
77		4	max	0.024	34	0.059	25	-0.016	35	0	33	NC	34	4027.98	20
78			min	-0.025	24	-0.059	35	-0.282	3	0	27	1454.889	27	233.396	3
79		5	max	0.024	34	0.018	25	-0.002	35	0	33	NC	35	NC	35
80			min	-0.025	24	-0.018	35	-0.028	3	0	27	NC	1	NC	1
81	M9	1	max	0.024	24	0.017	35	0.005	32	0	28	NC	35	NC	35
82			min	-0.024	34	-0.017	25	-0.015	30	0	34	NC	1	NC	1
83		2	max	0.024	24	0.06	35	-0.028	32	0	28	NC	34	2047.07	23
84			min	-0.024	34	-0.06	25	-0.3	3	0	34	1405.689	33	207.45	3
85		3	max	0.024	24	0.077	35	-0.042	33	0	5	NC	34	1458.564	23
86			min	-0.024	34	-0.078	25	-0.417	3	0	33	1001.592	33	147.813	3
87		4	max	0.024	24	0.06	35	-0.028	34	0.001	30	NC	34	2047.171	32
88			min	-0.024	34	-0.061	25	-0.301	3	0	32	1405.831	27	207.469	3
89		5	max	0.024	24	0.018	35	0.005	34	0.001	30	NC	35	NC	35
90			min	-0.024	34	-0.018	25	-0.016	28	0	32	NC	1	NC	1
91	M10	1	max	0.024	24	0.018	35	0.005	34	0.001	30	NC	35	NC	35
92			min	-0.024	34	-0.018	25	-0.016	28	0	32	NC	1	NC	1
93		2	max	0.024	24	0.061	35	-0.026	34	0.001	30	NC	34	2046.386	35
94			min	-0.024	34	-0.061	25	-0.302	3	0	32	1404.735	25	207.321	3
95		3	max	0.025	24	0.078	35	-0.04	34	0.001	30	NC	34	1458.05	35
96			min	-0.024	34	-0.078	25	-0.42	3	0	32	1000.874	27	147.716	3
97		4	max	0.025	24	0.06	35	-0.029	34	0	29	NC	34	2046.385	23
98			min	-0.024	34	-0.061	25	-0.305	3	0	35	1404.735	27	207.321	3
99		5	max	0.025	24	0.018	35	-0.002	34	0	29	NC	35	NC	35
100			min	-0.024	34	-0.018	25	-0.016	3	0	35	NC	1	NC	1
101	M11	1	max	0.025	24	0.018	35	-0.002	34	0	29	NC	35	NC	35
102			min	-0.024	34	-0.018	25	-0.016	3	0	35	NC	1	NC	1
103		2	max	0.025	24	0.06	35	-0.03	33	0	29	NC	34	2061.536	34
104			min	-0.024	34	-0.06	25	-0.299	3	0	27	1426.026	25	210.19	3
105		3	max	0.025	24	0.076	35	-0.04	33	0	29	NC	34	1468.845	21
106			min	-0.024	34	-0.077	25	-0.412	3	0	27	1016.044	25	149.76	3
107		4	max	0.025	24	0.059	35	-0.027	33	0	29	NC	34	2061.536	23
108			min	-0.024	34	-0.059	25	-0.294	3	0	27	1426.026	25	210.19	3
109		5	max	0.025	24	0.017	35	0.004	33	0	29	NC	35	NC	35
110			min	-0.024	34	-0.017	25	-0.009	31	0	27	NC	1	NC	1
111	M12	1	max	0.018	35	0.024	34	-0.002	33	0	29	NC	35	NC	35
112			min	-0.018	25	-0.025	24	-0.028	3	0	35	NC	1	NC	1
113		2	max	0.018	35	0.024	34	-0.001	34	0	29	NC	35	NC	35
114			min	-0.018	25	-0.024	24	-0.026	3	0	35	NC	1	NC	1
115		3	max	0.018	35	0.024	34	0	34	0	28	NC	35	NC	35
116			min	-0.018	25	-0.024	24	-0.023	28	0	34	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
117		4	max	0.018	35	0.024	34	0.002	34	0	28	NC	35	NC	35
118			min	-0.018	25	-0.024	24	-0.02	28	0	34	NC	1	NC	1
119		5	max	0.018	35	0.024	34	0.005	34	0	28	NC	35	NC	35
120			min	-0.018	25	-0.024	24	-0.016	28	0	34	NC	1	NC	1
121	M13	1	max	0.018	35	0.024	34	-0.002	35	0	35	NC	35	NC	35
122			min	-0.018	25	-0.025	24	-0.028	3	0	29	NC	1	NC	1
123		2	max	0.018	35	0.024	34	-0.003	35	0	34	NC	35	NC	35
124			min	-0.018	25	-0.025	24	-0.027	3	0	28	NC	1	NC	1
125		3	max	0.018	35	0.024	34	-0.003	34	0	34	NC	35	NC	35
126			min	-0.018	25	-0.025	24	-0.025	3	0	28	NC	1	NC	1
127		4	max	0.018	35	0.024	34	-0.003	34	0	34	NC	35	NC	35
128			min	-0.018	25	-0.025	24	-0.021	3	0	24	NC	1	NC	1
129		5	max	0.018	35	0.024	34	-0.002	34	0	26	NC	35	NC	35
130			min	-0.018	25	-0.025	24	-0.016	3	0	32	NC	1	NC	1
131	M14	1	max	0.017	25	0.025	24	0.004	33	0.001	30	NC	35	NC	35
132			min	-0.017	35	-0.024	34	-0.009	31	0	32	NC	1	NC	1
133		2	max	0.017	25	0.055	8	0	22	0.001	30	NC	35	NC	35
134			min	-0.017	35	-0.055	10	-0.04	16	0	32	1447.164	10	2054.237	16
135		3	max	0.017	25	0.09	20	0.001	22	0.001	30	NC	35	NC	34
136			min	-0.017	35	-0.092	10	-0.067	16	0	32	925.394	10	1313.497	16
137		4	max	0.017	25	0.106	20	0.003	22	0.002	16	NC	35	NC	34
138			min	-0.017	35	-0.108	10	-0.08	16	0	22	1091.064	10	1548.496	16
139		5	max	0.017	25	0.096	20	0.004	22	0.002	16	NC	35	NC	35
140			min	-0.017	35	-0.098	10	-0.074	16	0	22	NC	1	NC	1
141	M15	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
142			min	0	1	0	1	0	1	0	1	NC	1	NC	1
143		2	max	0	32	0.012	34	0.005	33	0	35	NC	35	NC	35
144			min	-0.004	3	-0.012	24	-0.008	31	0	1	NC	1	NC	1
145		3	max	-0.001	32	0.021	34	0.01	25	0	35	NC	35	NC	35
146			min	-0.008	3	-0.021	24	-0.014	31	0	1	8626.773	24	NC	1
147		4	max	-0.001	32	0.026	34	0.014	25	0	35	NC	35	NC	35
148			min	-0.012	3	-0.026	24	-0.016	31	0	1	9859.17	24	NC	1
149		5	max	-0.002	32	0.024	34	0.017	25	0	35	NC	35	NC	35
150			min	-0.017	3	-0.024	24	-0.017	35	0	1	NC	1	6734.95	29
151	M16	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
152			min	0	1	0	1	0	1	0	1	NC	1	NC	1
153		2	max	0	33	0.008	34	0.007	25	0	35	NC	35	NC	35
154			min	-0.007	3	-0.01	28	-0.007	35	0	1	NC	1	NC	1
155		3	max	-0.001	33	0.016	34	0.013	25	0	35	NC	35	NC	35
156			min	-0.014	3	-0.018	28	-0.012	35	0	1	NC	1	NC	1
157		4	max	-0.001	33	0.021	34	0.016	25	0	35	NC	35	NC	35
158			min	-0.021	3	-0.022	24	-0.016	35	0	1	7116.854	30	NC	1
159		5	max	-0.002	33	0.024	34	0.017	25	0	35	NC	35	NC	35
160			min	-0.028	3	-0.025	24	-0.017	35	0	1	4631.268	30	NC	1
161	M17	1	max	0.017	35	0.024	34	-0.002	33	0	35	NC	35	NC	35
162			min	-0.017	25	-0.025	24	-0.028	3	0	29	NC	1	NC	1
163		2	max	0.017	35	0.024	34	-0.003	33	0	35	NC	35	NC	35
164			min	-0.017	25	-0.025	24	-0.027	3	0	29	NC	1	NC	1
165		3	max	0.017	35	0.024	34	-0.003	32	0	34	NC	35	NC	35
166			min	-0.017	25	-0.024	24	-0.025	3	0	28	NC	1	NC	1
167		4	max	0.017	35	0.024	34	-0.003	32	0	34	NC	35	NC	35
168			min	-0.017	25	-0.024	24	-0.021	3	0	28	NC	1	NC	1
169		5	max	0.017	35	0.024	34	-0.002	32	0	34	NC	35	NC	35
170			min	-0.017	25	-0.024	24	-0.017	3	0	24	NC	1	NC	1
171	M18	1	max	0.024	34	0.017	25	0.003	33	0	29	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
172			min	-0.025	24	-0.017	35	-0.021	31	0	35	NC	1	NC	1
173		2	max	0.024	34	0.058	25	-0.013	33	0	29	NC	34	4092.899	33
174			min	-0.025	24	-0.058	35	-0.274	3	0	35	1479.982	35	237.396	3
175		3	max	0.024	34	0.074	25	-0.02	33	0	25	NC	34	2912.003	22
176			min	-0.025	24	-0.074	35	-0.379	3	0	35	1052.867	27	168.886	3
177		4	max	0.024	34	0.058	25	-0.015	33	0	25	NC	34	4083.468	22
178			min	-0.025	24	-0.057	35	-0.279	3	0	35	1476.334	27	236.814	3
179		5	max	0.024	34	0.017	25	-0.002	33	0	25	NC	35	NC	35
180			min	-0.025	24	-0.017	35	-0.028	3	0	35	NC	1	NC	1
181	M19	1	max	0.024	24	0.017	35	-0.002	32	0	29	NC	35	NC	35
182			min	-0.024	34	-0.017	25	-0.017	3	0	35	NC	1	NC	1
183		2	max	0.024	24	0.059	35	-0.029	32	0	28	NC	34	2047.07	22
184			min	-0.024	34	-0.06	25	-0.304	3	0	34	1405.689	25	207.45	3
185		3	max	0.024	24	0.077	35	-0.04	32	0	28	NC	34	1458.564	33
186			min	-0.024	34	-0.077	25	-0.419	3	0	34	1001.592	25	147.813	3
187		4	max	0.024	24	0.06	35	-0.026	32	0	28	NC	34	2047.171	33
188			min	-0.024	34	-0.06	25	-0.301	3	0	34	1405.831	25	207.469	3
189		5	max	0.024	24	0.017	35	0.005	32	0	28	NC	35	NC	35
190			min	-0.024	34	-0.017	25	-0.015	30	0	34	NC	1	NC	1
191	M20	1	max	0.015	31	0.015	35	0.025	24	0	33	NC	35	NC	35
192			min	-0.006	33	-0.022	29	-0.024	34	-0.001	31	NC	1	NC	1
193		2	max	0.013	31	0.012	35	0.021	32	0	33	NC	35	NC	35
194			min	-0.005	33	-0.018	29	-0.022	26	0	31	NC	1	7656.796	24
195		3	max	0.011	31	0.009	35	0.018	32	0	33	NC	35	NC	35
196			min	-0.004	33	-0.013	29	-0.019	26	0	31	NC	1	3787.944	30
197		4	max	0.009	31	0.006	35	0.017	28	0	20	NC	35	NC	31
198			min	-0.004	33	-0.009	29	-0.015	34	0	18	NC	1	2511.765	30
199		5	max	0.007	31	0.004	35	0.015	28	0	20	NC	35	NC	31
200			min	-0.003	33	-0.005	25	-0.012	34	0	18	NC	1	1927.085	30
201	M21	1	max	0.017	25	0.096	20	0.004	22	0.002	16	NC	35	NC	10
202			min	-0.017	35	-0.098	10	-0.074	16	0	22	265.66	10	403.809	16
203		2	max	0.017	25	0.072	20	0.003	22	0.002	16	NC	35	NC	34
204			min	-0.017	35	-0.074	10	-0.058	16	0	22	361.576	10	554.539	16
205		3	max	0.017	25	0.043	20	0.001	22	0.001	16	NC	35	NC	34
206			min	-0.017	35	-0.045	10	-0.038	16	0	22	647.677	10	1025.611	16
207		4	max	0.017	25	0.028	32	0.002	35	0.001	31	NC	35	NC	35
208			min	-0.017	35	-0.029	26	-0.023	29	0	33	2051.743	10	3659.391	16
209		5	max	0.017	25	0.025	24	0.003	35	0	31	NC	35	NC	35
210			min	-0.017	35	-0.024	34	-0.017	29	0	33	NC	1	NC	1
211	M22	1	max	0	35	0	35	0	35	0	31	NC	35	NC	35
212			min	0	1	0	1	0	1	0	33	NC	1	NC	1
213		2	max	0.001	32	0.008	34	0.007	33	0	31	NC	35	NC	35
214			min	-0.004	30	-0.008	24	-0.009	31	0	33	NC	1	NC	1
215		3	max	0.002	32	0.015	34	0.014	33	0	31	NC	35	NC	35
216			min	-0.007	30	-0.015	24	-0.015	31	0	33	NC	1	9562.65	31
217		4	max	0.004	32	0.02	34	0.017	33	0	31	NC	35	NC	35
218			min	-0.011	30	-0.021	24	-0.018	31	0	33	NC	1	9406.782	29
219		5	max	0.005	32	0.024	34	0.017	25	0	31	NC	35	NC	35
220			min	-0.015	30	-0.024	24	-0.017	35	0	33	NC	1	6542.063	29
221	M23	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
222			min	0	1	0	1	0	1	0	1	NC	1	NC	1
223		2	max	0	34	0.013	34	0.006	25	0	35	NC	35	NC	35
224			min	-0.004	3	-0.014	24	-0.008	31	0	1	NC	1	NC	1
225		3	max	-0.001	34	0.024	34	0.011	25	0	35	NC	35	NC	35
226			min	-0.008	3	-0.024	24	-0.013	31	0	1	6650.729	24	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
227		4	max	-0.001	34	0.029	34	0.015	25	0	35	NC	35	NC	35
228			min	-0.012	3	-0.029	24	-0.016	31	0	1	7600.833	24	NC	1
229		5	max	-0.002	34	0.024	34	0.018	25	0	35	NC	35	NC	35
230			min	-0.016	3	-0.025	24	-0.018	35	0	1	NC	1	5507.781	29
231	M24	1	max	0	35	0	35	0	35	0	32	NC	35	NC	35
232			min	0	1	0	1	0	1	0	30	NC	1	NC	1
233		2	max	0.001	33	0.009	34	0.007	25	0	32	NC	35	NC	35
234			min	-0.005	31	-0.009	24	-0.007	35	0	30	NC	1	NC	1
235		3	max	0.002	33	0.017	34	0.012	25	0	32	NC	35	NC	35
236			min	-0.011	31	-0.017	24	-0.012	35	0	30	NC	1	NC	1
237		4	max	0.002	33	0.023	34	0.016	25	0	32	NC	35	NC	35
238			min	-0.016	31	-0.023	24	-0.016	35	0	30	NC	1	NC	1
239		5	max	0.003	33	0.024	34	0.017	25	0	32	NC	35	NC	35
240			min	-0.021	31	-0.025	24	-0.017	35	0	30	NC	1	NC	1
241	M25	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
242			min	0	1	0	1	0	1	0	1	NC	1	NC	1
243		2	max	0	35	0.009	34	0.007	25	0	35	NC	35	NC	35
244			min	-0.007	3	-0.01	28	-0.007	35	0	1	NC	1	NC	1
245		3	max	-0.001	35	0.017	34	0.014	25	0	35	NC	35	NC	35
246			min	-0.014	3	-0.018	28	-0.013	35	0	1	9738.398	30	NC	1
247		4	max	-0.001	35	0.022	34	0.017	25	0	35	NC	35	NC	35
248			min	-0.021	3	-0.023	24	-0.017	35	0	1	6391.347	30	NC	1
249		5	max	-0.002	35	0.024	34	0.018	25	0	35	NC	35	NC	35
250			min	-0.028	3	-0.025	24	-0.018	35	0	1	4691.415	30	NC	1
251	M26	1	max	0	35	0	35	0	35	0.001	28	NC	35	NC	35
252			min	0	1	0	1	0	1	0	34	NC	1	NC	1
253		2	max	0.001	35	0	33	0.003	28	0.001	28	NC	35	NC	35
254			min	-0.001	29	-0.004	31	-0.004	26	0	34	NC	1	7050.896	26
255		3	max	0.002	35	0.001	33	0.006	28	0	28	NC	35	NC	35
256			min	-0.003	29	-0.006	31	-0.007	26	0	34	NC	1	3694.705	26
257		4	max	0.002	35	0.002	33	0.01	28	0	28	NC	35	NC	35
258			min	-0.004	29	-0.008	31	-0.01	26	0	34	NC	1	2351.761	28
259		5	max	0.003	35	0.004	33	0.015	28	0	28	NC	35	NC	35
260			min	-0.005	29	-0.008	31	-0.012	34	0	34	NC	1	1677.861	28
261	M27	1	max	0.003	35	0.004	33	0.015	28	0	28	NC	35	NC	35
262			min	-0.005	29	-0.008	31	-0.012	34	0	34	NC	1	NC	1
263		2	max	0.004	35	0.006	33	0.015	28	0	28	NC	35	NC	35
264			min	-0.007	29	-0.011	31	-0.016	26	0	34	NC	1	6833.033	26
265		3	max	0.005	35	0.008	33	0.018	32	0	28	NC	35	NC	35
266			min	-0.008	29	-0.013	27	-0.02	26	0	34	NC	1	3575.239	26
267		4	max	0.005	35	0.012	33	0.021	32	0	28	NC	35	NC	31
268			min	-0.009	29	-0.016	27	-0.022	26	0	34	NC	1	2528.607	26
269		5	max	0.006	35	0.016	33	0.025	24	0	28	NC	35	NC	31
270			min	-0.011	29	-0.017	27	-0.024	34	0	34	NC	1	2007.01	26
271	M28	1	max	0.007	31	0.004	35	0.015	28	0	20	NC	35	NC	35
272			min	-0.003	33	-0.005	25	-0.012	34	0	18	NC	1	NC	1
273		2	max	0.006	31	0.002	35	0.012	28	0	20	NC	35	NC	35
274			min	-0.002	33	-0.003	25	-0.009	26	0	18	NC	1	7173.121	28
275		3	max	0.004	31	0.001	35	0.008	28	0	32	NC	35	NC	35
276			min	-0.001	33	-0.003	25	-0.007	26	0	30	NC	1	3416.272	28
277		4	max	0.002	31	0	35	0.004	28	0	32	NC	35	NC	35
278			min	-0.001	33	-0.002	25	-0.003	26	0	30	NC	1	2240.284	28
279		5	max	0	35	0	35	0	35	0	32	NC	35	NC	35
280			min	0	1	0	1	0	1	0	30	NC	1	1677.861	28
281	M29	1	max	0	35	0	35	0	35	0	30	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
282			min	0	1	0	1	0	1	0	32	NC	1	NC	1
283		2	max	0.001	34	0.007	26	0.009	29	0	30	NC	35	NC	35
284			min	-0.004	28	-0.006	32	-0.006	35	0	32	NC	1	NC	1
285		3	max	0.002	34	0.013	26	0.016	29	0	30	NC	35	NC	35
286			min	-0.008	28	-0.012	32	-0.011	35	0	32	NC	1	7801.966	30
287		4	max	0.004	34	0.019	26	0.018	29	0	30	NC	35	NC	35
288			min	-0.011	28	-0.018	32	-0.015	35	0	32	6708.405	28	8917.004	30
289		5	max	0.005	34	0.023	34	0.018	25	0	30	NC	35	NC	35
290			min	-0.015	28	-0.024	24	-0.018	35	0	32	4204.898	28	5722.331	31
291	M30	1	max	0	35	0	35	0	35	0.005	22	NC	35	NC	35
292			min	0	1	0	1	0	1	-0.005	8	NC	1	NC	1
293		2	max	0	22	0.004	34	0.011	29	0.005	22	NC	35	NC	35
294			min	-0.002	3	-0.005	28	-0.007	35	-0.005	8	NC	1	NC	1
295		3	max	-0.001	22	0.01	34	0.018	29	0.005	22	NC	35	NC	35
296			min	-0.004	3	-0.01	28	-0.013	35	-0.005	8	7684.373	24	7365.859	29
297		4	max	-0.001	22	0.016	34	0.021	29	0.005	22	NC	35	NC	35
298			min	-0.007	3	-0.017	24	-0.017	35	-0.005	8	4781.228	24	8418.124	29
299		5	max	-0.001	22	0.024	34	0.018	25	0.005	22	NC	35	NC	35
300			min	-0.009	3	-0.024	24	-0.017	35	-0.005	8	3279.676	24	7171.224	31
301	M31	1	max	0.017	35	0.024	34	0.004	32	0	32	NC	35	NC	35
302			min	-0.017	25	-0.024	24	-0.011	30	0	30	NC	1	NC	1
303		2	max	0.017	35	0.027	34	0	32	0	32	NC	35	NC	35
304			min	-0.017	25	-0.027	24	-0.034	30	0	30	NC	1	2783.156	3
305		3	max	0.017	35	0.029	34	-0.002	32	0	32	NC	35	NC	35
306			min	-0.017	25	-0.03	24	-0.049	3	0	30	NC	1	1754.538	3
307		4	max	0.017	35	0.029	34	-0.002	33	0	20	NC	35	NC	35
308			min	-0.017	25	-0.029	24	-0.048	3	0	18	NC	1	2028.492	3
309		5	max	0.017	35	0.025	34	0.003	33	0	30	NC	35	NC	35
310			min	-0.017	25	-0.025	24	-0.025	31	0	32	NC	1	NC	1
311	M32	1	max	0.023	34	0.018	25	0.005	34	0.001	30	NC	35	NC	35
312			min	-0.024	24	-0.018	35	-0.015	28	0	32	NC	1	NC	1
313		2	max	0.023	34	0.06	25	-0.027	34	0.001	31	NC	34	2063.662	33
314			min	-0.024	24	-0.06	35	-0.295	3	0	33	1429.04	25	210.596	3
315		3	max	0.023	34	0.077	25	-0.04	35	0.001	31	NC	34	1470.359	33
316			min	-0.024	24	-0.076	35	-0.409	3	0	33	1018.191	25	150.049	3
317		4	max	0.023	34	0.059	25	-0.027	35	0.001	31	NC	34	2063.662	33
318			min	-0.024	24	-0.059	35	-0.294	3	0	33	1429.04	25	210.596	3
319		5	max	0.024	34	0.017	25	0.004	32	0.001	31	NC	35	NC	35
320			min	-0.024	24	-0.017	35	-0.011	30	0	33	NC	1	NC	1
321	M33	1	max	0.024	34	0.018	25	-0.002	34	0	31	NC	35	NC	35
322			min	-0.024	24	-0.018	35	-0.017	3	0	33	NC	1	NC	1
323		2	max	0.024	34	0.06	25	-0.029	34	0	31	NC	34	2063.629	21
324			min	-0.024	24	-0.06	35	-0.3	3	0	33	1428.993	25	210.589	3
325		3	max	0.024	34	0.077	25	-0.039	34	0.001	30	NC	34	1470.336	34
326			min	-0.024	24	-0.077	35	-0.414	3	0	32	1018.157	33	150.045	3
327		4	max	0.023	34	0.06	25	-0.026	34	0.001	30	NC	34	2063.629	33
328			min	-0.024	24	-0.06	35	-0.298	3	0	32	1428.993	25	210.589	3
329		5	max	0.023	34	0.018	25	0.005	34	0.001	30	NC	35	NC	35
330			min	-0.024	24	-0.018	35	-0.015	28	0	32	NC	1	NC	1
331	M34	1	max	0.024	34	0.018	25	-0.001	22	0.001	29	NC	35	NC	35
332			min	-0.024	24	-0.017	35	-0.009	3	0	35	NC	1	NC	1
333		2	max	0.024	34	0.059	25	-0.03	22	0	16	NC	34	2072.327	35
334			min	-0.024	24	-0.059	35	-0.293	3	0	22	1441.391	27	212.256	3
335		3	max	0.024	34	0.076	25	-0.042	22	0	16	NC	34	1476.213	35
336			min	-0.024	24	-0.076	35	-0.41	3	0	22	1026.532	27	151.171	3

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
337		4	max	0.024	34	0.06	25	-0.031	34	0	16	NC	34	2071.466	35
338			min	-0.024	24	-0.059	35	-0.298	3	0	22	1440.16	25	212.091	3
339		5	max	0.024	34	0.018	25	-0.002	34	0	31	NC	35	NC	35
340			min	-0.024	24	-0.018	35	-0.017	3	0	33	NC	1	NC	1
341	M35	1	max	0.018	35	0.023	34	0.005	34	0	28	NC	35	NC	35
342			min	-0.018	25	-0.024	24	-0.015	28	0	34	NC	1	NC	1
343		2	max	0.018	35	0.027	34	0.001	34	0	28	NC	35	NC	35
344			min	-0.018	25	-0.027	24	-0.039	28	0	34	NC	1	2782.013	3
345		3	max	0.018	35	0.029	34	-0.002	34	0	28	NC	35	NC	35
346			min	-0.018	25	-0.03	24	-0.055	3	0	34	NC	1	1753.811	3
347		4	max	0.018	35	0.029	34	-0.003	34	0	28	NC	35	NC	35
348			min	-0.018	25	-0.029	24	-0.056	3	0	34	NC	1	2027.642	3
349		5	max	0.018	35	0.025	34	-0.002	34	0	29	NC	35	NC	35
350			min	-0.018	25	-0.025	24	-0.032	3	0	35	NC	1	NC	1
351	M36	1	max	0.018	35	0.024	34	-0.002	34	0	34	NC	35	NC	35
352			min	-0.018	25	-0.024	24	-0.017	3	0	24	NC	1	NC	1
353		2	max	0.018	35	0.027	34	-0.004	34	0	34	NC	35	NC	35
354			min	-0.018	25	-0.027	24	-0.042	3	0	28	NC	1	2774.397	3
355		3	max	0.018	35	0.029	34	-0.005	34	0	34	NC	35	NC	35
356			min	-0.018	25	-0.03	24	-0.058	3	0	28	NC	1	1748.969	3
357		4	max	0.018	35	0.028	34	-0.005	35	0	34	NC	35	NC	35
358			min	-0.018	25	-0.029	24	-0.057	3	0	28	NC	1	2021.979	3
359		5	max	0.018	35	0.025	34	-0.002	35	0	35	NC	35	NC	35
360			min	-0.018	25	-0.025	24	-0.032	3	0	29	NC	1	NC	1
361	M37	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
362			min	0	1	0	1	0	1	0	1	NC	1	NC	1
363		2	max	0	32	0.011	34	0.007	29	0	35	NC	35	NC	35
364			min	-0.004	3	-0.012	24	-0.005	35	0	1	NC	1	NC	1
365		3	max	-0.001	32	0.02	34	0.013	29	0	35	NC	35	NC	35
366			min	-0.008	3	-0.021	24	-0.01	35	0	1	8944.098	28	NC	1
367		4	max	-0.001	32	0.025	34	0.015	29	0	35	NC	35	NC	35
368			min	-0.012	3	-0.026	24	-0.014	35	0	1	NC	1	NC	1
369		5	max	-0.002	32	0.024	34	0.017	25	0	35	NC	35	NC	35
370			min	-0.017	3	-0.024	24	-0.017	35	0	1	NC	1	5904.279	31
371	M38	1	max	0.017	35	0.024	34	-0.002	32	0	34	NC	35	NC	35
372			min	-0.017	25	-0.024	24	-0.017	3	0	28	NC	1	NC	1
373		2	max	0.017	35	0.027	34	-0.004	32	0	34	NC	35	NC	35
374			min	-0.017	25	-0.028	24	-0.042	3	0	28	NC	1	2784.074	3
375		3	max	0.017	35	0.029	34	-0.005	32	0	34	NC	35	NC	35
376			min	-0.017	25	-0.03	24	-0.058	3	0	28	NC	1	1755.122	3
377		4	max	0.017	35	0.029	34	-0.005	32	0	35	NC	35	NC	35
378			min	-0.017	25	-0.029	24	-0.057	3	0	29	NC	1	2029.176	3
379		5	max	0.017	35	0.025	34	-0.002	33	0	35	NC	35	NC	35
380			min	-0.017	25	-0.025	24	-0.032	3	0	29	NC	1	NC	1
381	M39	1	max	0.024	34	0.017	25	0.004	32	0.001	31	NC	35	NC	35
382			min	-0.024	24	-0.017	35	-0.011	30	0	33	NC	1	NC	1
383		2	max	0.024	34	0.059	25	-0.027	32	0.001	31	NC	34	2063.662	35
384			min	-0.024	24	-0.059	35	-0.295	3	0	33	1429.04	33	210.596	3
385		3	max	0.024	34	0.076	25	-0.04	32	0	31	NC	34	1470.359	34
386			min	-0.024	24	-0.076	35	-0.412	3	0	33	1018.191	33	150.049	3
387		4	max	0.024	34	0.059	25	-0.029	32	0	31	NC	34	2063.662	34
388			min	-0.024	24	-0.059	35	-0.299	3	0	33	1429.04	33	210.596	3
389		5	max	0.024	34	0.017	25	-0.002	32	0	31	NC	35	NC	35
390			min	-0.024	24	-0.017	35	-0.017	3	0	33	NC	1	NC	1
391	M40	1	max	0.017	25	0.025	24	0.003	35	0	31	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
392			min	-0.017	35	-0.024	34	-0.017	29	0	33	5182.951	25	5502.508	27
393		2	max	0.017	25	0.025	24	0.003	35	0	31	NC	35	NC	35
394			min	-0.017	35	-0.024	34	-0.017	29	0	33	6914.537	25	6353.902	16
395		3	max	0.017	25	0.025	24	0.003	35	0	31	NC	35	NC	35
396			min	-0.017	35	-0.024	34	-0.017	29	0	33	3389.752	16	2960.158	16
397		4	max	0.017	25	0.025	24	0.003	35	0	31	NC	35	NC	35
398			min	-0.017	35	-0.024	34	-0.018	29	0	33	2006.276	16	1853.738	16
399		5	max	0.017	25	0.025	24	0.003	35	0	31	NC	35	NC	35
400			min	-0.017	35	-0.025	34	-0.018	29	0	33	1353.239	16	1315.063	16
401	M41	1	max	0	35	0	35	0	35	0	34	NC	35	NC	35
402			min	0	1	0	1	0	1	0	28	NC	1	NC	1
403		2	max	0.001	32	0.008	34	0.005	29	0	34	NC	35	NC	35
404			min	-0.003	30	-0.008	24	-0.003	35	0	28	NC	1	NC	1
405		3	max	0.002	32	0.014	34	0.01	29	0	34	NC	35	NC	35
406			min	-0.006	30	-0.015	24	-0.007	35	0	28	NC	1	NC	1
407		4	max	0.003	32	0.02	34	0.012	29	0	34	NC	35	NC	34
408			min	-0.008	30	-0.021	24	-0.011	35	0	28	NC	1	6634.871	25
409		5	max	0.004	32	0.024	34	0.017	25	0	34	NC	35	NC	34
410			min	-0.011	30	-0.024	24	-0.017	35	0	28	NC	1	4624.806	25
411	M42	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
412			min	0	1	0	1	0	1	0	1	NC	1	NC	1
413		2	max	0	34	0.013	34	0.008	29	0	35	NC	35	NC	35
414			min	-0.004	3	-0.013	24	-0.006	35	0	1	NC	1	NC	1
415		3	max	-0.001	34	0.023	34	0.014	29	0	35	NC	35	NC	35
416			min	-0.008	3	-0.023	24	-0.011	35	0	1	7015.7	24	NC	1
417		4	max	-0.001	34	0.027	34	0.017	29	0	35	NC	35	NC	35
418			min	-0.012	3	-0.028	24	-0.015	35	0	1	8017.943	24	NC	1
419		5	max	-0.002	34	0.024	34	0.018	25	0	35	NC	35	NC	35
420			min	-0.017	3	-0.024	24	-0.018	35	0	1	NC	1	6245.309	31
421	M43	1	max	0.098	16	0.044	20	0.017	25	0.001	20	NC	35	NC	35
422			min	-0.077	22	-0.094	18	-0.017	35	-0.003	18	NC	1	NC	1
423		2	max	0.098	16	0.046	20	0.086	25	0.001	20	NC	35	NC	34
424			min	-0.077	22	-0.093	18	-0.086	35	-0.002	18	NC	1	696.965	25
425		3	max	0.098	16	0.048	20	0.147	25	0.001	20	NC	35	NC	34
426			min	-0.077	22	-0.091	18	-0.145	35	-0.001	18	NC	1	435.603	25
427		4	max	0.098	16	0.05	20	0.189	25	0	20	NC	35	NC	34
428			min	-0.077	22	-0.09	18	-0.188	35	0	18	NC	1	497.832	25
429		5	max	0.099	16	0.052	20	0.204	33	0	31	NC	35	NC	35
430			min	-0.077	22	-0.087	18	-0.204	35	0	33	NC	1	NC	1
431	M44	1	max	0.099	16	0.048	20	0.018	25	0.002	10	NC	35	NC	35
432			min	-0.077	22	-0.063	18	-0.017	35	-0.001	20	NC	1	NC	1
433		2	max	0.099	16	0.05	20	0.086	33	0.001	10	NC	35	NC	34
434			min	-0.077	22	-0.063	18	-0.086	35	-0.001	16	NC	1	698.137	27
435		3	max	0.099	16	0.051	20	0.146	33	0.001	22	NC	35	NC	34
436			min	-0.077	22	-0.062	18	-0.146	27	-0.001	16	NC	1	436.336	27
437		4	max	0.099	16	0.053	20	0.188	33	0	22	NC	35	NC	34
438			min	-0.077	22	-0.063	10	-0.188	35	-0.001	16	NC	1	498.67	27
439		5	max	0.099	16	0.055	20	0.204	33	0	35	NC	35	NC	35
440			min	-0.077	22	-0.063	10	-0.204	35	-0.001	3	NC	1	NC	1
441	M45	1	max	0.099	16	0.053	20	0.204	33	0	31	NC	35	NC	35
442			min	-0.077	22	-0.088	18	-0.204	35	0	33	NC	1	NC	1
443		2	max	0.099	16	0.055	20	0.203	33	0.001	31	NC	35	NC	35
444			min	-0.077	22	-0.085	18	-0.202	35	0	33	NC	1	NC	1
445		3	max	0.099	16	0.057	20	0.2	25	0.001	5	NC	35	NC	35
446			min	-0.077	22	-0.081	18	-0.199	35	0	33	NC	1	4125.498	17

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
447		4	max	0.099	16	0.059	20	0.197	25	0.002	5	NC	35	NC	35
448			min	-0.077	22	-0.077	18	-0.195	35	0	33	NC	1	3307.325	31
449		5	max	0.099	16	0.061	20	0.194	25	0.002	5	NC	35	NC	35
450			min	-0.077	22	-0.072	18	-0.194	27	0	33	NC	1	NC	1
451	M46	1	max	0.099	16	0.056	20	0.204	33	0	35	NC	35	NC	35
452			min	-0.077	22	-0.064	10	-0.204	35	-0.001	3	NC	1	NC	1
453		2	max	0.099	16	0.058	20	0.203	33	0	35	NC	35	NC	35
454			min	-0.077	22	-0.064	10	-0.202	35	-0.002	3	NC	1	NC	1
455		3	max	0.099	16	0.059	20	0.199	33	0	35	NC	35	NC	35
456			min	-0.077	22	-0.064	10	-0.199	27	-0.002	3	NC	1	4131.019	19
457		4	max	0.099	16	0.061	20	0.196	33	0	35	NC	35	NC	35
458			min	-0.077	22	-0.065	10	-0.196	27	-0.003	3	NC	1	3282.008	29
459		5	max	0.099	16	0.063	20	0.194	25	0	35	NC	35	NC	35
460			min	-0.077	22	-0.065	10	-0.194	27	-0.003	3	NC	1	NC	1
461	M47	1	max	0.099	16	0.063	20	0.194	25	0	35	NC	35	NC	35
462			min	-0.077	22	-0.065	10	-0.194	27	-0.003	3	NC	1	NC	1
463		2	max	0.099	16	0.065	8	0.18	25	0	35	NC	35	NC	34
464			min	-0.077	22	-0.065	10	-0.178	35	-0.003	3	NC	1	1341.67	29
465		3	max	0.099	16	0.067	8	0.148	25	0	35	NC	35	NC	35
466			min	-0.077	22	-0.065	22	-0.146	35	-0.002	3	NC	1	3145.04	17
467		4	max	0.099	16	0.069	8	0.115	25	0	35	NC	35	NC	34
468			min	-0.077	22	-0.065	22	-0.114	27	-0.001	3	NC	1	1833.893	27
469		5	max	0.099	16	0.07	8	0.1	25	0	21	NC	35	NC	35
470			min	-0.077	22	-0.065	22	-0.099	27	0	19	NC	1	NC	1
471	M48	1	max	0.099	16	0.061	20	0.194	25	0.002	5	NC	35	NC	35
472			min	-0.077	22	-0.072	18	-0.194	27	0	33	NC	1	NC	1
473		2	max	0.099	16	0.063	20	0.179	33	0.002	5	NC	35	NC	34
474			min	-0.077	22	-0.067	18	-0.179	27	0	33	NC	1	1344.469	31
475		3	max	0.098	16	0.065	20	0.147	25	0.001	5	NC	35	NC	35
476			min	-0.077	22	-0.066	10	-0.147	27	0	33	NC	1	3148.173	19
477		4	max	0.098	16	0.067	8	0.115	25	0.001	5	NC	35	NC	34
478			min	-0.077	22	-0.066	22	-0.115	27	0	33	NC	1	1830.062	25
479		5	max	0.098	16	0.069	8	0.1	25	0	9	NC	35	NC	35
480			min	-0.077	22	-0.066	22	-0.099	27	0	2	NC	1	NC	1
481	M49	1	max	0.1	16	0.069	8	0.1	25	0	21	NC	35	NC	34
482			min	-0.078	22	-0.064	22	-0.099	27	0	19	1555.3	30	169.735	25
483		2	max	0.1	16	0.07	8	0.085	25	0	35	NC	35	NC	34
484			min	-0.078	22	-0.064	22	-0.085	27	-0.001	3	2322.311	30	202.412	27
485		3	max	0.1	16	0.072	8	0.054	33	0	35	NC	35	NC	34
486			min	-0.078	22	-0.064	22	-0.055	27	-0.003	3	2042.89	16	336.695	27
487		4	max	0.1	16	0.073	8	0.023	33	0	35	NC	35	NC	34
488			min	-0.078	22	-0.064	22	-0.025	31	-0.004	3	1480.244	16	815.484	31
489		5	max	0.1	16	0.074	8	0.009	25	0	35	NC	35	NC	35
490			min	-0.078	22	-0.064	22	-0.009	35	-0.005	3	1235.666	16	NC	1
491	M50	1	max	0.099	16	0.067	8	0.1	25	0	9	NC	35	NC	34
492			min	-0.078	22	-0.064	22	-0.099	27	0	2	860.217	30	169.757	25
493		2	max	0.099	16	0.069	8	0.086	25	0.001	5	NC	35	NC	34
494			min	-0.078	22	-0.064	22	-0.085	27	0	33	1247.957	30	201.827	25
495		3	max	0.099	16	0.071	8	0.055	25	0.002	5	NC	35	NC	34
496			min	-0.078	22	-0.064	22	-0.054	35	0	33	1286.288	16	335.701	25
497		4	max	0.099	16	0.072	8	0.027	29	0.004	5	NC	34	NC	34
498			min	-0.078	22	-0.064	22	-0.023	35	0	33	918.89	16	808.646	29
499		5	max	0.099	16	0.074	8	0.009	25	0.005	5	NC	34	NC	35
500			min	-0.078	22	-0.064	22	-0.009	35	0	33	752.22	16	NC	1
501	M51	1	max	0.1	16	0.073	8	0.009	25	0	35	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
502			min	-0.079	22	-0.064	22	-0.009	35	-0.005	3	8674.098	30	NC	1
503		2	max	0.1	16	0.074	16	0.024	29	0	35	NC	35	NC	34
504			min	-0.079	22	-0.064	22	-0.018	35	-0.004	3	NC	1	957.781	29
505		3	max	0.1	16	0.075	16	0.042	29	0	35	NC	35	NC	34
506			min	-0.079	22	-0.065	22	-0.04	35	-0.002	3	6819.333	16	452.856	29
507		4	max	0.1	16	0.076	16	0.063	25	0	35	NC	35	NC	34
508			min	-0.079	22	-0.065	22	-0.063	27	-0.001	29	5133.739	16	283.868	25
509		5	max	0.101	16	0.077	16	0.073	25	0	35	NC	35	NC	34
510			min	-0.079	22	-0.065	22	-0.073	27	0	25	4350.496	16	239.341	27
511	M52	1	max	0.099	16	0.073	8	0.009	25	0.005	5	NC	35	NC	35
512			min	-0.079	22	-0.064	22	-0.009	35	0	33	2505.025	30	NC	1
513		2	max	0.099	16	0.074	8	0.018	33	0.004	5	NC	35	NC	34
514			min	-0.079	22	-0.064	22	-0.022	31	0	33	3823.407	30	949.163	31
515		3	max	0.1	16	0.076	16	0.04	33	0.002	5	NC	35	NC	34
516			min	-0.079	22	-0.064	22	-0.042	27	0	33	3207.524	16	448.766	31
517		4	max	0.1	16	0.078	16	0.063	25	0.001	31	NC	35	NC	34
518			min	-0.079	22	-0.065	22	-0.063	27	0	33	2353.075	16	282.64	27
519		5	max	0.1	16	0.079	16	0.073	25	0	31	NC	35	NC	34
520			min	-0.079	22	-0.065	22	-0.073	27	0	33	1946.953	16	239.368	27
521	M53	1	max	0.099	16	0.079	16	0.073	25	0	35	NC	35	NC	35
522			min	-0.077	22	-0.067	22	-0.073	27	0	25	NC	1	NC	1
523		2	max	0.099	16	0.079	16	0.084	25	0	35	NC	35	NC	34
524			min	-0.077	22	-0.067	22	-0.083	27	0	25	NC	1	2359.18	27
525		3	max	0.099	16	0.079	16	0.107	25	0	35	NC	35	NC	35
526			min	-0.077	22	-0.067	22	-0.107	27	0	25	NC	1	NC	1
527		4	max	0.099	16	0.08	16	0.13	25	0	35	NC	35	NC	34
528			min	-0.077	22	-0.067	22	-0.131	27	0	25	NC	1	2359.794	27
529		5	max	0.099	16	0.08	16	0.141	25	0	35	NC	35	NC	35
530			min	-0.077	22	-0.067	22	-0.141	27	0	25	NC	1	NC	1
531	M54	1	max	0.098	16	0.081	16	0.073	25	0	31	NC	35	NC	35
532			min	-0.077	22	-0.067	22	-0.073	27	0	33	NC	1	NC	1
533		2	max	0.098	16	0.082	16	0.083	25	0	31	NC	35	NC	34
534			min	-0.077	22	-0.067	22	-0.084	27	0	33	NC	1	2369.736	25
535		3	max	0.098	16	0.083	16	0.107	25	0	31	NC	35	NC	35
536			min	-0.077	22	-0.067	22	-0.107	27	0	33	NC	1	NC	1
537		4	max	0.098	16	0.084	16	0.131	25	0	31	NC	35	NC	34
538			min	-0.077	22	-0.067	22	-0.131	27	0	33	NC	1	2370.432	25
539		5	max	0.098	16	0.084	16	0.141	25	0	31	NC	35	NC	35
540			min	-0.077	22	-0.067	22	-0.141	27	0	33	NC	1	NC	1
541	M55	1	max	0.099	16	0.08	16	0.141	25	0	35	NC	35	NC	35
542			min	-0.077	22	-0.067	22	-0.141	27	0	25	NC	1	NC	1
543		2	max	0.099	16	0.08	16	0.151	25	0	35	NC	35	NC	34
544			min	-0.077	22	-0.067	22	-0.152	27	-0.001	29	NC	1	2051.312	29
545		3	max	0.099	16	0.08	16	0.174	25	0	35	NC	35	NC	35
546			min	-0.077	22	-0.067	22	-0.176	27	-0.002	29	NC	1	2260.727	19
547		4	max	0.099	16	0.08	16	0.197	25	0	35	NC	35	NC	34
548			min	-0.077	22	-0.067	22	-0.2	27	-0.003	3	NC	1	1232.906	31
549		5	max	0.099	16	0.081	16	0.208	25	0	35	NC	35	NC	35
550			min	-0.077	22	-0.066	22	-0.209	27	-0.004	3	NC	1	NC	1
551	M56	1	max	0.098	16	0.084	16	0.141	25	0	31	NC	35	NC	35
552			min	-0.077	22	-0.067	22	-0.141	27	0	33	NC	1	NC	1
553		2	max	0.098	16	0.084	16	0.151	25	0.001	31	NC	35	NC	34
554			min	-0.077	22	-0.067	22	-0.152	27	0	33	NC	1	2049.878	31
555		3	max	0.098	16	0.084	16	0.175	25	0.002	5	NC	35	NC	35
556			min	-0.077	22	-0.067	22	-0.175	27	0	33	NC	1	2262.262	17

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
557		4	max	0.098	16	0.084	16	0.199	25	0.003	5	NC	35	NC	34
558			min	-0.077	22	-0.066	22	-0.198	27	0	33	NC	1	1233.929	29
559		5	max	0.098	16	0.084	16	0.208	25	0.004	5	NC	35	NC	35
560			min	-0.077	22	-0.066	22	-0.209	27	0	33	NC	1	NC	1
561	M57	1	max	0.099	16	0.081	16	0.208	25	0	35	NC	35	NC	34
562			min	-0.077	22	-0.066	22	-0.209	27	-0.004	3	3363.755	18	74.694	27
563		2	max	0.099	16	0.081	16	0.191	25	0	35	NC	35	NC	34
564			min	-0.077	22	-0.066	22	-0.19	27	-0.004	3	4674.038	18	81.723	25
565		3	max	0.099	16	0.082	16	0.144	25	0	35	NC	35	NC	34
566			min	-0.077	22	-0.065	22	-0.143	27	-0.004	3	7271.524	3	108.301	25
567		4	max	0.099	16	0.082	16	0.077	25	0	35	NC	35	NC	34
568			min	-0.077	22	-0.065	22	-0.076	35	-0.004	3	5149.963	31	202.107	25
569		5	max	0.099	16	0.082	16	0	35	0	35	NC	35	NC	35
570			min	-0.077	22	-0.065	22	0	1	-0.004	3	4430.255	31	NC	1
571	M58	1	max	0.098	16	0.084	16	0.208	25	0.004	5	NC	35	NC	34
572			min	-0.077	22	-0.066	22	-0.209	27	0	33	6894.972	8	74.694	27
573		2	max	0.098	16	0.084	16	0.189	25	0.004	5	NC	35	NC	34
574			min	-0.077	22	-0.066	22	-0.192	27	0	33	7878.595	16	81.519	27
575		3	max	0.098	16	0.084	16	0.141	33	0.004	5	NC	35	NC	34
576			min	-0.077	22	-0.065	22	-0.144	27	0	33	8751.185	16	108.391	27
577		4	max	0.098	16	0.083	16	0.075	33	0.004	5	NC	35	NC	34
578			min	-0.077	22	-0.065	22	-0.077	27	0	33	NC	1	203.307	27
579		5	max	0.098	16	0.082	16	0	35	0.004	5	NC	35	NC	35
580			min	-0.077	22	-0.064	22	0	1	0	33	NC	1	NC	1
581	M59	1	max	0.204	35	0.105	8	0.041	16	0	22	NC	35	NC	35
582			min	-0.204	33	-0.099	22	-0.002	22	-0.001	16	NC	1	NC	1
583		2	max	0.204	35	0.104	8	0.058	16	0	22	NC	35	NC	35
584			min	-0.204	33	-0.099	22	-0.001	22	-0.001	16	NC	1	3839.303	3
585		3	max	0.204	35	0.103	8	0.068	16	0	22	NC	35	NC	35
586			min	-0.204	33	-0.099	22	0	22	-0.001	16	NC	1	2728.179	3
587		4	max	0.204	35	0.103	8	0.069	16	0	22	NC	35	NC	35
588			min	-0.204	33	-0.099	22	0	22	-0.001	16	NC	1	3839.429	3
589		5	max	0.204	35	0.102	8	0.062	16	0	22	NC	35	NC	35
590			min	-0.204	33	-0.1	22	-0.001	22	-0.001	16	NC	1	NC	1
591	M60	1	max	0.194	27	0.11	8	0.029	16	0	22	NC	35	NC	35
592			min	-0.194	25	-0.1	22	0	22	-0.001	16	NC	1	NC	1
593		2	max	0.194	27	0.11	8	0.072	5	0	22	NC	35	NC	35
594			min	-0.194	25	-0.101	22	0.003	22	-0.001	16	NC	1	1194.723	3
595		3	max	0.194	27	0.109	8	0.092	5	0	22	NC	35	NC	35
596			min	-0.194	25	-0.101	22	0.004	22	-0.001	16	NC	1	849.765	3
597		4	max	0.194	27	0.109	8	0.079	5	0	22	NC	35	NC	35
598			min	-0.194	25	-0.101	22	0.003	22	-0.002	16	NC	1	1194.676	3
599		5	max	0.194	27	0.108	8	0.044	16	0	22	NC	35	NC	35
600			min	-0.194	25	-0.101	22	0.001	22	-0.002	16	NC	1	NC	1
601	M61	1	max	0.099	27	0.116	16	0.015	16	0	22	NC	35	NC	35
602			min	-0.1	25	-0.101	22	0.001	22	-0.001	16	NC	1	NC	1
603		2	max	0.099	27	0.115	8	0.019	16	0	22	NC	35	NC	35
604			min	-0.1	25	-0.101	22	0.001	22	-0.001	16	NC	1	NC	1
605		3	max	0.099	27	0.115	8	0.021	16	0	22	NC	35	NC	35
606			min	-0.1	25	-0.101	22	0.002	22	-0.001	16	NC	1	NC	1
607		4	max	0.099	27	0.115	8	0.022	16	0	22	NC	35	NC	35
608			min	-0.1	25	-0.101	22	0.002	22	-0.002	16	NC	1	NC	1
609		5	max	0.099	27	0.114	8	0.022	16	0	22	NC	35	NC	35
610			min	-0.1	25	-0.101	22	0.001	22	-0.002	16	NC	1	NC	1
611	M62	1	max	0.009	35	0.124	16	0.006	5	0	22	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
612			min	-0.009	25	-0.101	22	0	20	0	16	NC	1	NC	1
613		2	max	0.009	35	0.124	16	0.072	5	0	22	NC	35	NC	35
614			min	-0.009	25	-0.101	22	0.005	20	0	16	NC	1	728.313	3
615		3	max	0.009	35	0.123	16	0.099	5	0	22	NC	35	7884.377	32
616			min	-0.009	25	-0.101	22	0.006	20	-0.001	16	NC	1	518.03	3
617		4	max	0.009	35	0.123	16	0.073	5	0	22	NC	35	NC	35
618			min	-0.009	25	-0.101	22	0.005	20	-0.001	16	NC	1	728.36	3
619		5	max	0.009	35	0.122	16	0.007	5	0	22	NC	35	NC	35
620			min	-0.009	25	-0.101	22	0	20	-0.001	16	NC	1	NC	1
621	M63	1	max	0.073	27	0.126	16	0.005	18	0	22	NC	35	NC	35
622			min	-0.073	25	-0.102	22	-0.001	20	0	16	NC	1	NC	1
623		2	max	0.073	27	0.127	16	0.006	18	0	22	NC	35	NC	35
624			min	-0.073	25	-0.102	22	-0.001	20	0	16	NC	1	NC	1
625		3	max	0.073	27	0.127	16	0.006	18	0	22	NC	35	NC	35
626			min	-0.073	25	-0.102	22	0	20	0	16	NC	1	NC	1
627		4	max	0.073	27	0.127	16	0.005	18	0	22	NC	35	NC	35
628			min	-0.073	25	-0.102	22	-0.001	20	0	16	NC	1	NC	1
629		5	max	0.073	27	0.127	16	0.003	18	0	22	NC	35	NC	35
630			min	-0.073	25	-0.102	22	-0.002	20	0	16	NC	1	NC	1
631	M64	1	max	0.141	27	0.127	16	0.005	18	0	20	NC	35	NC	35
632			min	-0.141	25	-0.103	22	-0.002	20	0	18	NC	1	NC	1
633		2	max	0.141	27	0.128	16	0.006	18	0	20	NC	35	NC	35
634			min	-0.141	25	-0.102	22	-0.001	20	0	18	NC	1	NC	1
635		3	max	0.141	27	0.128	16	0.005	18	0	20	NC	35	NC	35
636			min	-0.141	25	-0.102	22	-0.001	20	0	18	NC	1	NC	1
637		4	max	0.141	27	0.129	16	0.004	18	0	20	NC	35	NC	35
638			min	-0.141	25	-0.102	22	-0.001	20	0	18	NC	1	NC	1
639		5	max	0.141	27	0.129	16	0.002	22	0	20	NC	35	NC	35
640			min	-0.141	25	-0.102	22	-0.002	8	0	18	NC	1	NC	1
641	M65	1	max	0.209	27	0.128	16	0.004	18	0	20	NC	35	NC	35
642			min	-0.208	25	-0.102	22	-0.001	20	0	18	NC	1	NC	1
643		2	max	0.209	27	0.128	16	0.059	5	0	20	NC	35	NC	35
644			min	-0.208	25	-0.102	22	0.002	20	0	18	NC	1	835.162	3
645		3	max	0.209	27	0.128	16	0.082	5	0	20	NC	35	8848.3	35
646			min	-0.208	25	-0.102	22	0.004	20	0	18	NC	1	594.682	3
647		4	max	0.209	27	0.129	16	0.058	5	0	20	NC	35	NC	35
648			min	-0.208	25	-0.102	22	0.002	20	0	18	NC	1	835.461	3
649		5	max	0.209	27	0.129	16	0.001	22	0	8	NC	35	NC	35
650			min	-0.208	25	-0.102	22	-0.002	8	0	18	NC	1	NC	1
651	M66	1	max	0	35	0	35	0	35	0	25	NC	35	NC	35
652			min	0	1	0	1	0	1	0	35	NC	1	NC	1
653		2	max	0	20	0.025	22	0.002	25	0	25	NC	35	NC	35
654			min	-0.002	3	-0.031	16	-0.002	35	0	35	NC	1	NC	1
655		3	max	0	20	0.051	22	0.005	25	0	25	NC	35	NC	35
656			min	-0.003	3	-0.061	16	-0.004	35	0	35	NC	1	NC	1
657		4	max	0	20	0.076	22	0.007	25	0	25	NC	35	NC	35
658			min	-0.005	3	-0.092	16	-0.007	35	0	35	NC	1	NC	1
659		5	max	0	20	0.101	22	0.009	25	0	25	NC	35	NC	35
660			min	-0.007	3	-0.122	16	-0.009	35	0	35	NC	1	NC	1
661	M67	1	max	0	35	0	35	0	35	0	25	NC	35	NC	35
662			min	0	1	0	1	0	1	0	35	NC	1	NC	1
663		2	max	0	20	0.025	22	0.002	25	0	25	NC	35	NC	35
664			min	-0.002	3	-0.031	16	-0.002	35	0	35	NC	1	NC	1
665		3	max	0	20	0.051	22	0.005	25	0	25	NC	35	NC	35
666			min	-0.003	3	-0.062	16	-0.004	35	0	35	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
667		4	max	0	20	0.076	22	0.007	25	0	25	NC	35	NC	35
668			min	-0.005	3	-0.093	16	-0.007	35	0	35	NC	1	NC	1
669		5	max	0	20	0.101	22	0.009	25	0	25	NC	35	NC	35
670			min	-0.006	3	-0.124	16	-0.009	35	0	35	NC	1	NC	1
671	M68	1	max	0.018	25	0.099	8	0.005	22	0.001	16	NC	35	NC	35
672			min	-0.017	35	-0.096	22	-0.05	16	0	22	393.398	8	870.702	16
673		2	max	0.018	25	0.109	8	0.004	22	0.001	16	NC	35	NC	35
674			min	-0.017	35	-0.106	22	-0.048	16	0	22	355.568	8	920.298	16
675		3	max	0.018	25	0.092	8	0.002	22	0.001	16	NC	35	NC	35
676			min	-0.017	35	-0.09	22	-0.035	16	0	35	427.479	8	1354.25	16
677		4	max	0.018	25	0.055	8	0	22	0.001	30	NC	35	NC	35
678			min	-0.017	35	-0.054	22	-0.019	16	0	32	758.354	8	3347.38	16
679		5	max	0.018	25	0.024	24	-0.001	22	0.001	30	NC	35	NC	35
680			min	-0.017	35	-0.024	34	-0.009	3	0	32	NC	1	NC	1
681	M69	1	max	0.025	34	0.018	35	0.032	5	0	34	NC	35	NC	35
682			min	-0.025	24	-0.018	25	0.002	34	-0.003	3	NC	1	NC	1
683		2	max	0.025	34	0.057	35	0.277	5	0	34	NC	34	4182.022	32
684			min	-0.025	24	-0.058	25	0.015	33	-0.003	3	1514.523	25	242.9	3
685		3	max	0.025	34	0.073	35	0.374	5	0	35	NC	34	2981.877	35
686			min	-0.025	24	-0.073	25	0.02	33	-0.003	3	1079.946	25	173.202	3
687		4	max	0.025	34	0.057	35	0.272	5	0	35	NC	34	4188.946	21
688			min	-0.025	24	-0.057	25	0.013	33	-0.003	3	1517.21	33	243.328	3
689		5	max	0.025	34	0.017	35	0.025	31	0	35	NC	35	NC	35
690			min	-0.025	24	-0.017	25	-0.003	33	-0.003	3	NC	1	NC	1
691	M70	1	max	0.025	34	0.018	35	0.032	5	0	34	NC	35	NC	35
692			min	-0.025	24	-0.018	25	0.002	35	-0.003	3	NC	1	NC	1
693		2	max	0.025	34	0.057	35	0.279	5	0	34	NC	34	4181.859	33
694			min	-0.025	24	-0.058	25	0.017	34	-0.003	3	1514.459	33	242.89	3
695		3	max	0.025	34	0.073	35	0.379	5	0	34	NC	34	2981.78	23
696			min	-0.025	24	-0.074	25	0.022	34	-0.003	3	1079.908	33	173.196	3
697		4	max	0.025	34	0.057	35	0.279	5	0	34	NC	34	4188.871	23
698			min	-0.025	24	-0.058	25	0.016	34	-0.003	3	1517.181	25	243.324	3
699		5	max	0.025	34	0.018	35	0.032	5	0	34	NC	35	NC	35
700			min	-0.025	24	-0.018	25	0.002	34	-0.003	3	NC	1	NC	1
701	M71	1	max	0.025	34	0.017	35	0.018	29	0	22	NC	35	NC	35
702			min	-0.025	24	-0.017	25	-0.003	35	-0.001	16	NC	1	NC	1
703		2	max	0.025	34	0.057	35	0.269	5	0	22	NC	34	4141.422	35
704			min	-0.025	24	-0.058	25	0.013	35	-0.001	16	1498.775	25	240.391	3
705		3	max	0.025	34	0.074	35	0.375	5	0	22	NC	34	2947.223	34
706			min	-0.025	24	-0.074	25	0.02	35	-0.002	16	1066.505	35	171.06	3
707		4	max	0.025	34	0.058	35	0.278	5	0	22	NC	34	4135.058	34
708			min	-0.025	24	-0.058	25	0.015	35	-0.002	3	1496.308	25	239.998	3
709		5	max	0.025	34	0.018	35	0.032	5	0	34	NC	35	NC	35
710			min	-0.025	24	-0.018	25	0.002	35	-0.003	3	NC	1	NC	1
711	M72	1	max	0.025	34	0.017	35	0.025	31	0	35	NC	35	NC	35
712			min	-0.025	24	-0.017	25	-0.003	33	-0.003	3	NC	1	NC	1
713		2	max	0.025	34	0.057	35	0.272	5	0	35	NC	34	4181.222	33
714			min	-0.025	24	-0.057	25	0.013	33	-0.003	3	1514.212	25	242.851	3
715		3	max	0.025	34	0.072	35	0.374	5	0	35	NC	34	2981.302	35
716			min	-0.025	24	-0.073	25	0.02	33	-0.003	3	1079.723	27	173.166	3
717		4	max	0.025	34	0.056	35	0.276	5	0	35	NC	34	4188.111	33
718			min	-0.025	24	-0.056	25	0.015	33	-0.003	3	1516.886	27	243.277	3
719		5	max	0.025	34	0.017	35	0.032	5	0	35	NC	35	NC	35
720			min	-0.025	24	-0.017	25	0.002	33	-0.003	3	NC	1	NC	1
721	M73	1	max	0.017	35	0.025	34	0.003	33	0	30	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
722			min	-0.017	25	-0.025	24	-0.025	31	0	32	NC	1	NC	1
723		2	max	0.017	35	0.025	34	0.003	33	0	30	NC	35	NC	35
724			min	-0.017	25	-0.025	24	-0.024	31	0	32	NC	1	NC	1
725		3	max	0.017	35	0.024	34	0.003	33	0	30	NC	35	NC	35
726			min	-0.017	25	-0.025	24	-0.023	31	0	32	NC	1	NC	1
727		4	max	0.017	35	0.024	34	0.003	33	0	30	NC	35	NC	35
728			min	-0.017	25	-0.025	24	-0.022	31	0	32	NC	1	NC	1
729		5	max	0.017	35	0.024	34	0.003	33	0	30	NC	35	NC	35
730			min	-0.017	25	-0.025	24	-0.021	31	0	32	NC	1	NC	1
731	M74	1	max	0.018	35	0.025	34	-0.002	34	0	29	NC	35	NC	35
732			min	-0.018	25	-0.025	24	-0.032	3	0	35	NC	1	NC	1
733		2	max	0.018	35	0.025	34	-0.002	34	0	29	NC	35	NC	35
734			min	-0.018	25	-0.025	24	-0.031	3	0	35	NC	1	NC	1
735		3	max	0.018	35	0.024	34	-0.002	34	0	29	NC	35	NC	35
736			min	-0.018	25	-0.025	24	-0.03	3	0	35	NC	1	NC	1
737		4	max	0.018	35	0.024	34	-0.002	33	0	29	NC	35	NC	35
738			min	-0.018	25	-0.025	24	-0.029	3	0	35	NC	1	NC	1
739		5	max	0.018	35	0.024	34	-0.002	33	0	29	NC	35	NC	35
740			min	-0.018	25	-0.025	24	-0.028	3	0	35	NC	1	NC	1
741	M75	1	max	0.018	35	0.025	34	-0.002	35	0	35	NC	35	NC	35
742			min	-0.018	25	-0.025	24	-0.032	3	0	29	NC	1	NC	1
743		2	max	0.018	35	0.025	34	-0.002	35	0	35	NC	35	NC	35
744			min	-0.018	25	-0.025	24	-0.031	3	0	29	NC	1	NC	1
745		3	max	0.018	35	0.024	34	-0.002	35	0	35	NC	35	NC	35
746			min	-0.018	25	-0.025	24	-0.03	3	0	29	NC	1	NC	1
747		4	max	0.018	35	0.024	34	-0.002	35	0	35	NC	35	NC	35
748			min	-0.018	25	-0.025	24	-0.029	3	0	29	NC	1	NC	1
749		5	max	0.018	35	0.024	34	-0.002	35	0	35	NC	35	NC	35
750			min	-0.018	25	-0.025	24	-0.028	3	0	29	NC	1	NC	1
751	M76	1	max	0.017	35	0.025	34	-0.002	33	0	35	NC	35	NC	35
752			min	-0.017	25	-0.025	24	-0.032	3	0	29	NC	1	NC	1
753		2	max	0.017	35	0.025	34	-0.002	33	0	35	NC	35	NC	35
754			min	-0.017	25	-0.025	24	-0.031	3	0	29	NC	1	NC	1
755		3	max	0.017	35	0.025	34	-0.002	33	0	35	NC	35	NC	35
756			min	-0.017	25	-0.025	24	-0.03	3	0	29	NC	1	NC	1
757		4	max	0.017	35	0.024	34	-0.002	33	0	35	NC	35	NC	35
758			min	-0.017	25	-0.025	24	-0.029	3	0	29	NC	1	NC	1
759		5	max	0.017	35	0.024	34	-0.002	33	0	35	NC	35	NC	35
760			min	-0.017	25	-0.025	24	-0.028	3	0	29	NC	1	NC	1
761	M77	1	max	0.017	25	0.025	24	0.003	35	0	31	NC	35	NC	35
762			min	-0.017	35	-0.025	34	-0.018	29	0	33	NC	1	NC	1
763		2	max	0.017	25	0.031	24	0.002	35	0.001	31	NC	35	NC	35
764			min	-0.017	35	-0.029	34	-0.023	29	0	33	2594.544	10	NC	1
765		3	max	0.017	25	0.048	8	0.002	22	0.001	16	NC	35	NC	35
766			min	-0.017	35	-0.046	22	-0.033	16	0	22	3737.754	10	NC	1
767		4	max	0.018	25	0.077	8	0.004	22	0.001	16	NC	35	NC	35
768			min	-0.017	35	-0.074	22	-0.043	16	0	22	NC	1	NC	1
769		5	max	0.018	25	0.099	8	0.005	22	0.001	16	NC	35	NC	35
770			min	-0.017	35	-0.096	22	-0.05	16	0	22	NC	1	NC	1
771	M78	1	max	0.015	35	0.024	34	-0.002	35	0	29	NC	35	NC	35
772			min	-0.016	25	-0.025	24	-0.028	3	0	35	NC	1	NC	1
773		2	max	0.015	35	0.024	34	-0.003	35	0	29	NC	35	NC	35
774			min	-0.016	25	-0.025	24	-0.027	3	0	35	NC	1	NC	1
775		3	max	0.015	35	0.024	34	-0.003	34	0	28	NC	35	NC	35
776			min	-0.016	25	-0.025	24	-0.025	3	0	34	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
777		4	max	0.015	35	0.024	34	-0.003	34	0	28	NC	35	NC	35
778			min	-0.016	25	-0.025	24	-0.021	3	0	34	NC	1	NC	1
779		5	max	0.015	35	0.024	34	-0.002	34	0	24	NC	35	NC	35
780			min	-0.016	25	-0.025	24	-0.017	3	0	34	NC	1	NC	1
781	M79	1	max	0.024	34	0.017	25	-0.002	33	0	25	NC	35	NC	35
782			min	-0.025	24	-0.017	35	-0.028	3	0	35	NC	1	NC	1
783		2	max	0.024	34	0.057	25	-0.017	33	0	25	NC	34	4092.749	35
784			min	-0.025	24	-0.057	35	-0.281	3	0	35	1479.924	35	237.387	3
785		3	max	0.024	34	0.073	25	-0.022	33	0	25	NC	34	2911.87	33
786			min	-0.025	24	-0.073	35	-0.384	3	0	35	1052.816	35	168.878	3
787		4	max	0.024	34	0.057	25	-0.017	35	0	25	NC	34	4083.275	34
788			min	-0.025	24	-0.056	35	-0.282	3	0	35	1476.259	33	236.802	3
789		5	max	0.024	34	0.016	25	-0.002	35	0	25	NC	35	NC	35
790			min	-0.025	24	-0.015	35	-0.028	3	0	35	NC	1	NC	1
791	M80	1	max	0.025	24	0.015	35	-0.002	34	0	29	NC	35	NC	35
792			min	-0.024	34	-0.016	25	-0.017	3	0	35	NC	1	NC	1
793		2	max	0.025	24	0.058	35	-0.031	34	0	29	NC	34	2046.386	32
794			min	-0.024	34	-0.059	25	-0.306	3	0	35	1404.735	25	207.321	3
795		3	max	0.024	24	0.076	35	-0.043	32	0	29	NC	34	1458.05	32
796			min	-0.024	34	-0.076	25	-0.423	3	0	35	1000.874	35	147.716	3
797		4	max	0.024	24	0.059	35	-0.031	32	0	29	NC	34	2046.385	20
798			min	-0.024	34	-0.059	25	-0.306	3	0	35	1404.735	35	207.321	3
799		5	max	0.024	24	0.017	35	-0.002	32	0	29	NC	35	NC	35
800			min	-0.024	34	-0.017	25	-0.017	3	0	35	NC	1	NC	1
801	M81	1	max	0	35	0	35	0	35	0	32	NC	35	NC	35
802			min	0	1	0	1	0	1	0	30	NC	1	NC	1
803		2	max	0.001	33	0.012	26	0.003	33	0	32	NC	35	NC	35
804			min	-0.002	31	-0.012	32	-0.003	31	0	30	NC	1	NC	1
805		3	max	0.001	33	0.022	26	0.005	33	0	32	NC	35	NC	35
806			min	-0.004	31	-0.021	32	-0.006	31	0	30	7662.539	30	NC	1
807		4	max	0.002	33	0.026	26	0.009	33	0	32	NC	35	NC	34
808			min	-0.006	31	-0.026	32	-0.009	27	0	30	8757.222	30	8913.424	27
809		5	max	0.002	33	0.024	34	0.013	25	0	32	NC	35	NC	34
810			min	-0.008	31	-0.025	24	-0.013	35	0	30	NC	1	5950.733	25
811	M82	1	max	0	35	0	35	0	35	0	31	NC	35	NC	35
812			min	0	1	0	1	0	1	0	25	NC	1	NC	1
813		2	max	0.001	35	0.008	34	0.005	25	0	31	NC	35	NC	35
814			min	-0.003	29	-0.009	24	-0.005	35	0	25	NC	1	NC	1
815		3	max	0.001	35	0.016	34	0.01	25	0	31	NC	35	NC	35
816			min	-0.006	29	-0.016	24	-0.009	35	0	25	8561.827	28	NC	1
817		4	max	0.002	35	0.022	34	0.013	25	0	31	NC	35	NC	35
818			min	-0.009	29	-0.022	24	-0.012	35	0	25	5536.946	28	NC	1
819		5	max	0.002	35	0.024	34	0.014	25	0	31	NC	35	NC	35
820			min	-0.012	29	-0.025	24	-0.013	35	0	25	3985.665	28	NC	1
821	M83	1	max	0.013	35	0.024	34	0.002	35	0	31	NC	35	NC	35
822			min	-0.014	25	-0.025	24	-0.012	29	0	25	NC	1	NC	1
823		2	max	0.013	35	0.042	22	-0.007	2	0	31	NC	35	NC	2
824			min	-0.014	25	-0.043	8	-0.035	29	0	33	1698.37	8	2418.12	18
825		3	max	0.013	35	0.057	22	-0.006	2	0	30	NC	35	NC	2
826			min	-0.013	25	-0.057	8	-0.043	3	0	32	1210.089	8	1722.91	26
827		4	max	0.013	35	0.043	22	-0.006	2	0	30	NC	35	NC	2
828			min	-0.013	25	-0.043	8	-0.033	31	0	32	1698.37	22	2418.12	3
829		5	max	0.013	35	0.024	34	0.002	33	0	30	NC	35	NC	35
830			min	-0.013	25	-0.025	24	-0.008	31	0	32	NC	1	NC	1
831	M84	1	max	0.024	34	0.016	25	-0.002	35	0	25	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
832			min	-0.025	24	-0.015	35	-0.028	3	0	35	NC	1	NC	1
833		2	max	0.024	34	0.056	25	-0.016	35	0	33	NC	34	4091.733	34
834			min	-0.025	24	-0.055	35	-0.277	3	0	27	1479.531	25	237.324	3
835		3	max	0.024	34	0.072	25	-0.02	35	0	33	NC	34	2911.054	23
836			min	-0.025	24	-0.071	35	-0.375	3	0	31	1052.5	27	168.828	3
837		4	max	0.024	34	0.055	25	-0.014	35	0	33	NC	34	4082.055	34
838			min	-0.025	24	-0.054	35	-0.268	3	0	31	1475.787	35	236.727	3
839		5	max	0.024	34	0.014	25	0.002	35	0	33	NC	35	NC	35
840			min	-0.025	24	-0.013	35	-0.012	29	0	31	NC	1	NC	1
841	M85	1	max	0.025	24	0.013	35	0.002	33	0	29	NC	35	NC	35
842			min	-0.024	34	-0.013	25	-0.008	31	0	35	NC	1	NC	1
843		2	max	0.025	24	0.056	35	-0.028	33	0	29	NC	34	2047.07	20
844			min	-0.024	34	-0.057	25	-0.298	3	0	35	1405.689	33	207.45	3
845		3	max	0.025	24	0.074	35	-0.041	33	0	29	NC	34	1458.564	32
846			min	-0.024	34	-0.074	25	-0.417	3	0	35	1001.592	33	147.813	3
847		4	max	0.025	24	0.057	35	-0.03	33	0	29	NC	34	2047.171	20
848			min	-0.024	34	-0.058	25	-0.303	3	0	35	1405.831	27	207.469	3
849		5	max	0.025	24	0.015	35	-0.002	34	0	29	NC	35	NC	35
850			min	-0.024	34	-0.016	25	-0.017	3	0	35	NC	1	NC	1
851	M86	1	max	0.012	31	0.012	35	0.025	24	0	31	NC	35	NC	35
852			min	-0.004	33	-0.016	29	-0.024	34	0	33	NC	1	NC	1
853		2	max	0.01	31	0.009	35	0.021	32	0	31	NC	35	NC	35
854			min	-0.004	33	-0.013	29	-0.022	26	0	33	NC	1	7423.33	24
855		3	max	0.009	31	0.006	35	0.018	32	0	31	NC	35	NC	35
856			min	-0.003	33	-0.01	29	-0.019	26	0	33	NC	1	3831.318	24
857		4	max	0.007	31	0.005	35	0.015	24	0	28	NC	35	NC	35
858			min	-0.003	33	-0.007	29	-0.015	26	0	34	NC	1	2639.338	24
859		5	max	0.006	31	0.003	35	0.012	24	0	28	NC	35	NC	31
860			min	-0.002	33	-0.004	25	-0.012	34	0	34	NC	1	1987.52	26
861	M87	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
862			min	0	1	0	1	0	1	0	1	NC	1	NC	1
863		2	max	0	34	0.006	26	0.005	25	0	35	NC	35	NC	35
864			min	-0.004	3	-0.006	32	-0.007	31	0	1	NC	1	NC	1
865		3	max	-0.001	34	0.013	26	0.01	25	0	35	NC	35	NC	35
866			min	-0.008	3	-0.012	32	-0.013	31	0	1	8910.271	28	NC	1
867		4	max	-0.001	34	0.019	26	0.013	25	0	35	NC	35	NC	35
868			min	-0.012	3	-0.019	24	-0.015	31	0	1	5720.361	28	NC	1
869		5	max	-0.002	34	0.024	34	0.016	25	0	35	NC	35	NC	35
870			min	-0.017	3	-0.025	24	-0.015	35	0	1	4078.949	28	7011.106	29
871	M88	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
872			min	0	1	0	1	0	1	0	1	NC	1	NC	1
873		2	max	0	35	0.01	26	0.006	25	0	35	NC	35	NC	35
874			min	-0.007	3	-0.009	32	-0.006	35	0	1	NC	1	NC	1
875		3	max	-0.001	35	0.018	26	0.012	25	0	35	NC	35	NC	35
876			min	-0.014	3	-0.017	32	-0.011	35	0	1	8265.631	28	NC	1
877		4	max	-0.001	35	0.023	26	0.015	25	0	35	NC	35	NC	35
878			min	-0.021	3	-0.023	32	-0.015	35	0	1	5432.889	28	NC	1
879		5	max	-0.002	35	0.024	34	0.016	25	0	35	NC	35	NC	35
880			min	-0.028	3	-0.025	24	-0.015	35	0	1	3995.954	28	NC	1
881	M89	1	max	0	35	0	35	0	35	0	24	NC	35	NC	35
882			min	0	1	0	1	0	1	0	26	NC	1	NC	1
883		2	max	0.001	35	0	33	0.002	32	0	24	NC	35	NC	35
884			min	-0.001	29	-0.003	31	-0.004	26	0	34	NC	1	7089.693	26
885		3	max	0.001	35	0	33	0.005	32	0	24	NC	35	NC	35
886			min	-0.002	29	-0.006	31	-0.007	26	0	34	NC	1	3716.016	26

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
887		4	max	0.002	35	0.001	33	0.009	32	0	24	NC	35	NC	35
888			min	-0.003	29	-0.006	31	-0.01	26	0	34	NC	1	2634.488	26
889		5	max	0.002	35	0.003	33	0.012	24	0	24	NC	35	NC	35
890			min	-0.004	29	-0.006	31	-0.012	34	0	34	NC	1	2005.639	24
891	M90	1	max	0.002	35	0.003	33	0.012	24	0	24	NC	35	NC	35
892			min	-0.004	29	-0.006	31	-0.012	34	0	34	NC	1	NC	1
893		2	max	0.003	35	0.004	33	0.015	32	0	24	NC	35	NC	35
894			min	-0.005	29	-0.01	31	-0.016	26	0	34	NC	1	6823.626	26
895		3	max	0.003	35	0.006	33	0.017	32	0	24	NC	35	NC	35
896			min	-0.006	29	-0.012	31	-0.02	26	0	34	NC	1	3570.089	26
897		4	max	0.004	35	0.009	33	0.021	32	0	24	NC	35	NC	35
898			min	-0.007	29	-0.013	31	-0.022	26	0	34	NC	1	2524.743	26
899		5	max	0.005	35	0.012	33	0.025	24	0	24	NC	35	NC	35
900			min	-0.008	29	-0.013	27	-0.024	34	0	34	NC	1	2003.765	26
901	M91	1	max	0.006	31	0.003	35	0.012	24	0	28	NC	35	NC	35
902			min	-0.002	33	-0.004	25	-0.012	34	0	34	NC	1	NC	1
903		2	max	0.004	31	0.002	35	0.009	32	0	28	NC	35	NC	35
904			min	-0.002	33	-0.003	25	-0.009	26	0	34	NC	1	7676.285	24
905		3	max	0.003	31	0	35	0.006	32	0	28	NC	35	NC	35
906			min	-0.001	33	-0.002	25	-0.006	26	0	34	NC	1	3825.535	24
907		4	max	0.001	31	0	2	0.003	32	0	28	NC	35	NC	35
908			min	-0.001	33	-0.001	25	-0.003	26	0	34	NC	1	2602.905	24
909		5	max	0	35	0	35	0	35	0	28	NC	35	NC	35
910			min	0	1	0	1	0	1	0	34	NC	1	2005.639	24
911	M92	1	max	0.015	35	0.024	34	-0.002	34	0	28	NC	35	NC	35
912			min	-0.016	25	-0.025	24	-0.017	3	0	34	NC	1	NC	1
913		2	max	0.015	35	0.027	34	-0.004	34	0	28	NC	35	NC	35
914			min	-0.016	25	-0.027	24	-0.042	3	0	34	NC	1	2779.078	3
915		3	max	0.015	35	0.029	34	-0.005	34	0	28	NC	35	NC	35
916			min	-0.016	25	-0.029	24	-0.058	3	0	34	8818.6	8	1751.945	3
917		4	max	0.015	35	0.028	34	-0.005	35	0	29	NC	35	NC	35
918			min	-0.016	25	-0.029	24	-0.057	3	0	35	NC	1	2025.46	3
919		5	max	0.015	35	0.025	34	-0.002	35	0	29	NC	35	NC	35
920			min	-0.016	25	-0.025	24	-0.032	3	0	35	NC	1	NC	1
921	M93	1	max	0.024	34	0.017	25	-0.002	32	0	31	NC	35	NC	35
922			min	-0.024	24	-0.017	35	-0.017	3	0	33	NC	1	NC	1
923		2	max	0.024	34	0.058	25	-0.031	32	0	31	NC	34	2063.629	22
924			min	-0.025	24	-0.058	35	-0.301	3	0	33	1428.993	27	210.589	3
925		3	max	0.024	34	0.075	25	-0.043	32	0	31	NC	34	1470.336	35
926			min	-0.025	24	-0.075	35	-0.416	3	0	33	1018.157	25	150.045	3
927		4	max	0.024	34	0.058	25	-0.031	34	0	31	NC	34	2063.629	35
928			min	-0.025	24	-0.058	35	-0.301	3	0	33	1428.993	27	210.589	3
929		5	max	0.024	34	0.016	25	-0.002	34	0	31	NC	35	NC	35
930			min	-0.025	24	-0.015	35	-0.017	3	0	33	NC	1	NC	1
931	M94	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
932			min	0	1	0	1	0	1	0	1	NC	1	NC	1
933		2	max	0	32	0.011	34	0.006	25	0	35	NC	35	NC	35
934			min	-0.002	3	-0.011	24	-0.006	35	0	1	NC	1	NC	1
935		3	max	-0.001	32	0.02	34	0.011	25	0	35	NC	35	NC	35
936			min	-0.004	3	-0.021	24	-0.011	35	0	1	9582.713	24	NC	1
937		4	max	-0.001	32	0.025	34	0.014	25	0	35	NC	35	NC	35
938			min	-0.007	3	-0.026	24	-0.013	35	0	1	NC	1	NC	1
939		5	max	-0.001	32	0.024	34	0.014	25	0	35	NC	35	NC	35
940			min	-0.009	3	-0.025	24	-0.013	35	0	1	NC	1	NC	1
941	M95	1	max	0.013	35	0.024	34	-0.001	32	0	30	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
942			min	-0.014	25	-0.025	24	-0.009	3	0	32	NC	1	NC	1
943		2	max	0.013	35	0.034	22	-0.016	35	0	30	NC	35	6639.704	2
944			min	-0.014	25	-0.034	8	-0.044	3	0	32	2214.019	8	1749.102	3
945		3	max	0.013	35	0.044	22	-0.021	35	0	30	NC	35	4149.815	2
946			min	-0.014	25	-0.044	8	-0.061	3	0	32	1629.255	8	1192.924	3
947		4	max	0.013	35	0.032	22	-0.015	35	0	31	NC	35	4742.646	2
948			min	-0.014	25	-0.033	8	-0.052	29	0	33	2435.075	8	1551.058	3
949		5	max	0.013	35	0.025	34	0.001	35	0	31	NC	35	NC	35
950			min	-0.014	25	-0.025	24	-0.016	29	0	33	NC	1	NC	1
951	M96	1	max	0.024	34	0.016	25	-0.002	34	0	31	NC	35	NC	35
952			min	-0.025	24	-0.015	35	-0.017	3	0	33	NC	1	NC	1
953		2	max	0.024	34	0.057	25	-0.031	34	0	5	NC	34	2063.629	35
954			min	-0.025	24	-0.057	35	-0.3	3	0	33	1428.993	25	210.589	3
955		3	max	0.024	34	0.074	25	-0.042	34	0	5	NC	34	1470.336	32
956			min	-0.025	24	-0.073	35	-0.413	3	0	35	1018.157	27	150.045	3
957		4	max	0.024	34	0.056	25	-0.03	35	0	29	NC	34	2063.629	20
958			min	-0.025	24	-0.056	35	-0.296	3	0	35	1428.993	27	210.589	3
959		5	max	0.024	34	0.014	25	-0.001	32	0	29	NC	35	NC	35
960			min	-0.025	24	-0.013	35	-0.009	3	0	35	NC	1	NC	1
961	M97	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
962			min	0	1	0	1	0	1	0	1	NC	1	NC	1
963		2	max	0	34	0.007	26	0.007	29	0	35	NC	35	NC	35
964			min	-0.004	3	-0.007	32	-0.005	35	0	1	NC	1	NC	1
965		3	max	-0.001	34	0.013	26	0.012	29	0	35	NC	35	NC	35
966			min	-0.008	3	-0.013	32	-0.01	35	0	1	8950.178	28	NC	1
967		4	max	-0.001	34	0.019	26	0.014	29	0	35	NC	35	NC	35
968			min	-0.012	3	-0.019	32	-0.013	35	0	1	5629.061	28	NC	1
969		5	max	-0.002	34	0.024	34	0.016	25	0	35	NC	35	NC	35
970			min	-0.017	3	-0.025	24	-0.015	35	0	1	3911.82	28	6658.274	31
971	M98	1	max	0.025	34	0.017	35	0.032	5	0	35	NC	35	NC	35
972			min	-0.025	24	-0.017	25	0.002	33	-0.003	3	NC	1	NC	1
973		2	max	0.025	34	0.056	35	0.279	5	0	35	NC	34	4187.738	35
974			min	-0.025	24	-0.056	25	0.016	33	-0.003	3	1516.741	25	243.254	3
975		3	max	0.025	34	0.071	35	0.378	5	0	35	NC	34	2986.208	22
976			min	-0.025	24	-0.072	25	0.022	33	-0.003	3	1081.627	27	173.47	3
977		4	max	0.025	34	0.055	35	0.278	5	0	33	NC	34	4195.512	20
978			min	-0.025	24	-0.055	25	0.016	35	-0.003	3	1519.76	27	243.735	3
979		5	max	0.025	34	0.015	35	0.032	5	0	33	NC	35	NC	35
980			min	-0.025	24	-0.016	25	0.002	35	-0.003	3	NC	1	NC	1
981	M99	1	max	0.025	34	0.015	35	0.032	5	0	33	NC	35	NC	35
982			min	-0.025	24	-0.016	25	0.002	35	-0.003	3	NC	1	NC	1
983		2	max	0.025	34	0.054	35	0.275	5	0	33	NC	34	4181.855	35
984			min	-0.025	24	-0.055	25	0.016	35	-0.003	3	1514.458	35	242.89	3
985		3	max	0.025	34	0.07	35	0.37	5	-0.001	33	NC	34	2981.777	33
986			min	-0.025	24	-0.07	25	0.021	35	-0.003	3	1079.907	33	173.195	3
987		4	max	0.025	34	0.053	35	0.266	5	-0.001	33	NC	34	4188.866	35
988			min	-0.025	24	-0.054	25	0.014	35	-0.003	3	1517.179	25	243.324	3
989		5	max	0.025	34	0.013	35	0.016	29	-0.001	33	NC	35	NC	35
990			min	-0.025	24	-0.014	25	-0.001	35	-0.003	3	NC	1	NC	1
991	M100	1	max	0.015	35	0.025	34	-0.002	35	0	29	NC	35	NC	35
992			min	-0.016	25	-0.025	24	-0.032	3	0	35	NC	1	NC	1
993		2	max	0.015	35	0.025	34	-0.002	35	0	29	NC	35	NC	35
994			min	-0.016	25	-0.025	24	-0.031	3	0	35	NC	1	NC	1
995		3	max	0.015	35	0.025	34	-0.002	35	0	29	NC	35	NC	35
996			min	-0.016	25	-0.025	24	-0.03	3	0	35	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
997		4	max	0.015	35	0.024	34	-0.002	35	0	29	NC	35	NC	35
998			min	-0.016	25	-0.025	24	-0.029	3	0	35	NC	1	NC	1
999		5	max	0.015	35	0.024	34	-0.002	35	0	29	NC	35	NC	35
1000			min	-0.016	25	-0.025	24	-0.028	3	0	35	NC	1	NC	1
1001	M101	1	max	0.013	35	0.025	34	0.001	35	0	31	NC	35	NC	35
1002			min	-0.014	25	-0.025	24	-0.016	29	0	33	NC	1	NC	1
1003		2	max	0.013	35	0.025	34	0.001	35	0	31	NC	35	NC	35
1004			min	-0.014	25	-0.025	24	-0.015	29	0	33	NC	1	NC	1
1005		3	max	0.013	35	0.025	34	0.001	35	0	31	NC	35	NC	35
1006			min	-0.014	25	-0.025	24	-0.014	29	0	33	NC	1	NC	1
1007		4	max	0.013	35	0.025	34	0.002	35	0	31	NC	35	NC	35
1008			min	-0.014	25	-0.025	24	-0.013	29	0	25	NC	1	NC	1
1009		5	max	0.013	35	0.024	34	0.002	35	0	31	NC	35	NC	35
1010			min	-0.014	25	-0.025	24	-0.012	29	0	25	NC	1	NC	1
1011	M102	1	max	0.012	31	0.015	35	0.024	24	0	28	NC	35	NC	35
1012			min	-0.007	33	-0.017	25	-0.024	34	0	26	NC	1	NC	1
1013		2	max	0.01	31	0.011	35	0.021	32	0	28	NC	35	NC	35
1014			min	-0.006	33	-0.016	29	-0.022	26	0	26	NC	1	6581.978	30
1015		3	max	0.009	31	0.008	35	0.018	28	0	28	NC	35	NC	35
1016			min	-0.005	33	-0.015	29	-0.02	26	0	34	NC	1	3156.025	30
1017		4	max	0.008	31	0.006	35	0.019	28	0	24	NC	35	NC	35
1018			min	-0.004	33	-0.013	29	-0.017	26	0	34	NC	1	2002.567	30
1019		5	max	0.006	31	0.004	35	0.02	28	0	24	NC	35	NC	35
1020			min	-0.003	33	-0.01	29	-0.014	34	0	34	NC	1	1439.143	30
1021	M103	1	max	0	35	0	35	0	35	0	32	NC	35	NC	35
1022			min	0	1	0	1	0	1	0	30	NC	1	NC	1
1023		2	max	0.001	35	0	33	0.006	31	0	32	NC	35	NC	35
1024			min	-0.002	29	-0.002	27	-0.004	26	0	30	NC	1	4591.927	28
1025		3	max	0.001	35	0.001	33	0.011	28	0	32	NC	35	NC	35
1026			min	-0.005	29	-0.003	27	-0.008	26	0	30	NC	1	2302.925	28
1027		4	max	0.002	35	0.003	33	0.017	28	0	32	NC	35	NC	30
1028			min	-0.007	29	-0.004	27	-0.011	26	0	30	NC	1	1563.364	28
1029		5	max	0.003	35	0.005	33	0.02	28	0	32	NC	35	NC	30
1030			min	-0.009	29	-0.005	27	-0.014	34	0	30	NC	1	1226.807	28
1031	M104	1	max	0.003	35	0.005	33	0.02	28	0	32	NC	35	NC	35
1032			min	-0.009	29	-0.005	27	-0.014	34	0	30	NC	1	NC	1
1033		2	max	0.004	35	0.007	33	0.022	28	0	32	NC	35	NC	35
1034			min	-0.012	29	-0.009	31	-0.017	26	0	30	NC	1	6643.298	30
1035		3	max	0.004	35	0.009	33	0.021	28	0	24	NC	35	NC	35
1036			min	-0.014	29	-0.014	31	-0.02	26	0	30	NC	1	3060.899	30
1037		4	max	0.005	35	0.012	33	0.022	32	0	24	NC	35	NC	35
1038			min	-0.017	29	-0.019	31	-0.022	26	0	30	NC	1	1956.736	30
1039		5	max	0.006	35	0.016	33	0.025	24	0	24	NC	35	NC	35
1040			min	-0.019	29	-0.024	31	-0.024	34	0	30	NC	1	1438.239	30
1041	M105	1	max	0.006	31	0.004	35	0.02	28	0	24	NC	35	NC	35
1042			min	-0.003	33	-0.01	29	-0.014	34	0	34	NC	1	NC	1
1043		2	max	0.005	31	0.002	35	0.014	28	0	24	NC	35	NC	35
1044			min	-0.002	33	-0.009	29	-0.011	26	0	34	NC	1	4433.301	28
1045		3	max	0.003	31	0.001	35	0.009	28	0	24	NC	35	NC	35
1046			min	-0.002	33	-0.007	29	-0.008	26	0	34	NC	1	2282.392	28
1047		4	max	0.002	31	0	35	0.004	28	0	24	NC	35	NC	33
1048			min	-0.001	33	-0.004	29	-0.004	26	0	34	NC	1	1579.46	28
1049		5	max	0	35	0	35	0	35	0	24	NC	35	NC	30
1050			min	0	1	0	1	0	1	0	34	NC	1	1226.807	28
1051	M106	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1052			min	0	1	0	1	0	1	0	29	NC	1	NC	1
1053		2	max	0.001	34	0	32	0.002	35	0	35	NC	35	NC	35
1054			min	-0.002	28	-0.002	30	-0.003	25	0	29	NC	1	NC	1
1055		3	max	0.002	34	0.001	32	0.004	35	0	35	NC	35	NC	34
1056			min	-0.004	28	-0.004	30	-0.005	25	0	29	NC	1	5356.615	25
1057		4	max	0.003	34	0.003	32	0.006	35	0	35	NC	35	NC	23
1058			min	-0.006	28	-0.005	30	-0.007	25	0	29	NC	1	3738.267	25
1059		5	max	0.004	34	0.006	32	0.009	35	0	35	NC	35	NC	23
1060			min	-0.008	28	-0.007	30	-0.009	25	0	29	NC	1	2863.753	25
1061	M107	1	max	0	35	0	35	0	35	0	33	NC	35	NC	35
1062			min	0	1	0	1	0	1	0	27	NC	1	NC	1
1063		2	max	0.001	32	0	34	0.002	33	0	33	NC	35	NC	35
1064			min	-0.002	30	-0.004	28	-0.003	27	0	27	NC	1	9254.277	27
1065		3	max	0.002	32	0.001	34	0.003	33	0	33	NC	35	NC	34
1066			min	-0.004	30	-0.007	28	-0.006	27	0	27	NC	1	4923.149	27
1067		4	max	0.003	32	0.003	34	0.006	33	0	33	NC	35	NC	23
1068			min	-0.006	30	-0.008	28	-0.008	27	0	27	NC	1	3563.723	27
1069		5	max	0.004	32	0.006	34	0.009	25	0	33	NC	35	NC	23
1070			min	-0.007	30	-0.008	28	-0.009	35	0	27	NC	1	2863.753	25
1071	M108	1	max	0	35	0	35	0	35	0	35	NC	35	NC	35
1072			min	0	1	0	1	0	1	0	25	NC	1	NC	1
1073		2	max	0.001	34	0	32	0.001	35	0	35	NC	35	NC	35
1074			min	-0.002	28	-0.004	30	-0.003	25	0	25	NC	1	9638.975	25
1075		3	max	0.002	34	0.001	32	0.003	35	0	35	NC	35	NC	34
1076			min	-0.004	28	-0.007	30	-0.006	25	0	25	NC	1	5141.476	25
1077		4	max	0.004	34	0.003	32	0.005	35	0	35	NC	35	NC	34
1078			min	-0.005	28	-0.008	30	-0.007	25	0	25	NC	1	3735.98	25
1079		5	max	0.005	34	0.006	32	0.008	35	0	35	NC	35	NC	30
1080			min	-0.007	28	-0.008	30	-0.008	25	0	25	NC	1	3050.233	25
1081	M109	1	max	0	35	0	35	0	35	0	33	NC	35	NC	35
1082			min	0	1	0	1	0	1	0	31	NC	1	NC	1
1083		2	max	0.001	32	0.001	34	0.002	28	0	33	NC	35	NC	35
1084			min	-0.002	30	-0.002	28	-0.002	27	0	31	NC	1	NC	1
1085		3	max	0.002	32	0.002	34	0.004	28	0	33	NC	35	NC	34
1086			min	-0.004	30	-0.004	28	-0.004	27	0	31	NC	1	6035.912	27
1087		4	max	0.003	32	0.004	34	0.006	33	0	33	NC	35	NC	30
1088			min	-0.006	30	-0.005	28	-0.006	27	0	31	NC	1	4179.807	35
1089		5	max	0.004	32	0.006	34	0.008	25	0	33	NC	35	NC	30
1090			min	-0.008	30	-0.007	28	-0.008	35	0	31	NC	1	3050.233	25
1091	M110	1	max	0.004	32	0.006	34	0.009	25	0	33	NC	35	NC	35
1092			min	-0.007	30	-0.008	28	-0.009	35	0	27	NC	1	NC	1
1093		2	max	0.005	32	0.009	34	0.01	33	0	25	NC	35	NC	34
1094			min	-0.009	30	-0.015	28	-0.012	27	0	35	NC	1	8719.816	27
1095		3	max	0.007	32	0.012	34	0.012	33	0	25	NC	35	NC	34
1096			min	-0.011	30	-0.02	28	-0.015	27	0	35	NC	1	4621.748	27
1097		4	max	0.008	32	0.017	34	0.015	33	0	29	NC	35	NC	23
1098			min	-0.013	30	-0.023	28	-0.017	27	0	35	NC	1	3328.065	27
1099		5	max	0.009	32	0.022	34	0.018	25	0	29	NC	35	NC	23
1100			min	-0.015	30	-0.026	28	-0.018	35	0	35	NC	1	2649.09	25
1101	M111	1	max	0.004	34	0.006	32	0.009	35	0	35	NC	35	NC	35
1102			min	-0.008	28	-0.007	30	-0.009	25	0	29	NC	1	NC	1
1103		2	max	0.005	34	0.009	32	0.011	35	0	34	NC	35	NC	35
1104			min	-0.01	28	-0.011	30	-0.011	25	0	28	NC	1	NC	1
1105		3	max	0.006	34	0.013	32	0.013	35	0	34	NC	35	NC	32
1106			min	-0.012	28	-0.015	26	-0.014	25	0	28	NC	1	5313.149	25

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1107		4	max	0.008	34	0.017	32	0.015	35	0	34	NC	35	NC	23
1108			min	-0.014	28	-0.02	26	-0.016	25	0	28	NC	1	3644.039	25
1109		5	max	0.009	34	0.022	32	0.017	35	0	34	NC	35	NC	23
1110			min	-0.016	28	-0.024	26	-0.017	25	0	28	NC	1	2838.83	25
1111	M112	1	max	0.004	32	0.006	34	0.008	25	0	33	NC	35	NC	35
1112			min	-0.008	30	-0.007	28	-0.008	35	0	31	NC	1	NC	1
1113		2	max	0.005	32	0.009	34	0.01	33	0	33	NC	35	NC	34
1114			min	-0.009	30	-0.011	28	-0.01	27	0	31	NC	1	9740.94	27
1115		3	max	0.006	32	0.013	34	0.012	33	0	33	NC	35	NC	34
1116			min	-0.011	30	-0.016	28	-0.013	27	0	31	NC	1	4782.034	27
1117		4	max	0.007	32	0.017	34	0.015	33	0	33	NC	35	NC	30
1118			min	-0.013	30	-0.02	28	-0.016	27	0	31	NC	1	3234.296	27
1119		5	max	0.009	32	0.021	34	0.018	25	0	33	NC	35	NC	23
1120			min	-0.015	30	-0.024	28	-0.018	35	0	31	NC	1	2488.432	27
1121	M113	1	max	0.005	34	0.006	32	0.008	35	0	35	NC	35	NC	35
1122			min	-0.007	28	-0.008	30	-0.008	25	0	25	NC	1	NC	1
1123		2	max	0.006	34	0.009	32	0.01	35	0	35	NC	35	NC	35
1124			min	-0.009	28	-0.013	30	-0.011	25	0	25	NC	1	8914.641	25
1125		3	max	0.007	34	0.012	32	0.012	35	0	35	NC	35	NC	32
1126			min	-0.011	28	-0.017	26	-0.014	25	0	25	NC	1	4731.359	25
1127		4	max	0.008	34	0.016	32	0.014	35	0	35	NC	35	NC	23
1128			min	-0.013	28	-0.02	26	-0.016	25	0	25	NC	1	3413.481	25
1129		5	max	0.01	34	0.021	32	0.017	35	0	31	NC	35	NC	23
1130			min	-0.014	28	-0.023	26	-0.017	25	0	25	NC	1	2665.653	31

Envelope AISI S100-16: ASD Member Cold Formed Steel Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pn/Om[lb]	Tn/Om[lb]	Mnyy/Om[lb-ft]	Mnzz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
1	M59	1200S200-97	0.119	2	5	0.019	0	z	5	18629.826	50299.401	884.053	6836.931	8145.361	5687.827	1.008	H1.2-1
2	M60	1200S200-97	0.377	2	5	0.061	0	z	5	17069.542	50299.401	884.053	6833.845	8145.361	5687.827	1.002	H1.1-2
3	M61	1200S200-97	0.026	4	33	0.004	4	z	31	18629.826	50299.401	884.053	7003.544	8145.361	5687.827	2.262	H1.2-1
4	M62	1200S200-97	0.618	2	5	0.099	4	z	5	18629.826	50299.401	884.053	6833.438	8145.361	5687.827	1.01	H1.2-1
5	M63	1200S200-97	0.02	3.5	27	0.003	0	z	27	17069.542	50299.401	884.053	6949.894	8145.361	5687.827	2.256	H1.1-2
6	M64	1200S200-97	0.02	3.542	27	0.003	0	z	27	18629.826	50299.401	884.053	6952.677	8145.361	5687.827	2.257	H1.2-1
7	M65	1200S200-97	0.536	2	5	0.086	0	z	5	17069.542	50299.401	884.053	6833.704	8145.361	5687.827	1.004	H1.1-2

Envelope AA ADM1-20: ASD - BUILDING Member Aluminum Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/Om[lb]	Pnt/Om[lb]	Mny/Om[lb-ft]	Mnz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
1	M1	RT2X2X0.125	0.337	6.6	28	0	6.6	z	30	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
2	M2	RT2X2X0.125	0.189	6.6	31	0	6.6	y	30	4519.026	18278.974	975.758	975.758	5000	5000	1.749	H.1-1
3	M3	RT2X2X0.125	0.6	6.6	5	0	6.6	y	30	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
4	M4	RT2X2X0.125	0.362	0	29	0	6.6	y	28	4519.026	18278.974	975.758	975.758	5000	5000	1.664	H.1-1
5	M5	EDGEBEAM	0.013	2.5	29	0.001	5	z	30	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
6	M6	EDGEBEAM	0.513	2.5	5	0.056	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
7	M7	EDGEBEAM	0.512	2.5	5	0.056	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
8	M8	EDGEBEAM	0.52	2.5	5	0.056	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
9	M9	EDGEBEAM	0.585	2.5	5	0.064	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
10	M10	EDGEBEAM	0.585	2.5	5	0.063	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
11	M11	EDGEBEAM	0.577	2.5	5	0.063	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
12	M12	EDGEBEAM	0.003	2.5	31	0.001	5	z	30	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
13	M13	EDGEBEAM	0.003	2.5	31	0.001	5	z	30	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
14	M14	EDGEBEAM	0.189	3	16	0.013	0	z	16	16689.74	28012.821	1664.434	570.315	6153.846	12307.692	1	H.1-1
15	M15	RT2X2X0.125	0.357	6.6	5	0	6.6	y	24	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
16	M16	RT2X2X0.125	0.602	6.6	5	0	6.6	y	28	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1

Envelope AA ADM1-20: ASD - BUILDING Member Aluminum Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/Om[lb]	Pnt/Om[lb]	Mny/Om[lb-ft]	Mnz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
17	M17	EDGEBEAM	0.003	2.5	31	0.001	5	z	30	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
18	M18	EDGEBEAM	0.512	2.5	5	0.056	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
19	M19	EDGEBEAM	0.585	2.5	5	0.063	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
20	M20	L2X2X0.25	0.403	4.14	31	0	4.14	y	28	2866.035	18395.897	441.491	664.078	5769.231	5769.231	1	H.1-1
21	M21	EDGEBEAM	0.335	2	16	0.038	2	z	16	22739.016	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
22	M22	RT2X2X0.125	0.311	6.6	30	0	6.6	z	31	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
23	M23	RT2X2X0.125	0.352	6.6	5	0	6.6	y	24	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
24	M24	RT2X2X0.125	0.454	6.6	31	0	6.6	y	26	4519.026	18278.974	975.758	975.758	5000	5000	1.75	H.1-1
25	M25	RT2X2X0.125	0.606	6.6	5	0	6.6	y	28	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
26	M26	L2X2X0.25	0.286	1.854	29	0.001	4.14	y	28	2866.035	18395.897	602.75	664.078	5769.231	5769.231	1	H.1-1
27	M27	L2X2X0.25	0.284	1.854	29	0	4.14	y	28	2866.035	18395.897	602.75	664.078	5769.231	5769.231	1	H.1-1
28	M28	L2X2X0.25	0.404	0	31	0.001	0	y	28	2866.035	18395.897	441.491	664.078	5769.231	5769.231	1	H.1-1
29	M29	RT2X2X0.125	0.329	6.6	28	0	6.6	z	30	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
30	M30	RT2X2X0.125	0.196	6.6	5	0	6.6	z	29	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
31	M31	EDGEBEAM	0.079	4.9	5	0.003	0	z	5	6256.046	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
32	M32	EDGEBEAM	0.576	2.5	5	0.063	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
33	M33	EDGEBEAM	0.59	2.5	5	0.062	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
34	M34	EDGEBEAM	0.572	2.5	5	0.062	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
35	M35	EDGEBEAM	0.079	4.9	5	0.003	0	z	29	6256.046	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
36	M36	EDGEBEAM	0.08	4.9	5	0.003	0	z	30	6256.046	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
37	M37	RT2X2X0.125	0.358	6.6	5	0	6.6	y	28	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
38	M38	EDGEBEAM	0.079	4.9	5	0.003	0	z	30	6256.046	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
39	M39	EDGEBEAM	0.593	2.5	5	0.062	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
40	M40	EDGEBEAM	0.244	0	16	0.076	0	z	16	29591.161	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
41	M41	RT2X2X0.125	0.238	6.6	30	0	6.6	z	28	4519.026	18278.974	975.758	975.758	5000	5000	1.762	H.1-1
42	M42	RT2X2X0.125	0.356	6.6	5	0	6.6	y	24	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
43	M43	0.25X8STRINGER	0.231	1.296	29	0.019	0	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
44	M44	0.25X8STRINGER	0.148	1.296	31	0.014	0	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
45	M45	0.25X8STRINGER	0.21	0.136	18	0.013	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
46	M46	0.25X8STRINGER	0.139	1.302	18	0.007	0	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
47	M47	0.25X8STRINGER	0.207	0	29	0.02	1.302	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
48	M48	0.25X8STRINGER	0.26	0	31	0.022	1.302	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
49	M49	0.25X8STRINGER	0.412	1.285	29	0.025	1.285	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
50	M50	0.25X8STRINGER	0.511	1.285	31	0.03	1.285	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
51	M51	0.25X8STRINGER	0.171	0	19	0.019	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
52	M52	0.25X8STRINGER	0.228	0	29	0.019	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
53	M53	0.25X8STRINGER	0.084	0	29	0.003	0	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
54	M54	0.25X8STRINGER	0.135	0	29	0.003	0	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
55	M55	0.25X8STRINGER	0.144	1.302	31	0.016	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
56	M56	0.25X8STRINGER	0.096	0	29	0.016	0	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
57	M57	0.25X8STRINGER	0.273	1.302	5	0.018	1.302	y	5	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
58	M58	0.25X8STRINGER	0.283	1.302	5	0.013	1.302	y	18	3714.688	38974.359	202.991	1652.258	24615.385	24615.385	1	H.1-1
59	M66	RT2X2X0.125	0.097	0	5	0	3.3	z	35	13558.83	18278.974	975.758	975.758	5000	5000	1	H.1-1
60	M67	RT2X2X0.125	0.086	0	5	0	3.3	z	35	13558.83	18278.974	975.758	975.758	5000	5000	1	H.1-1
61	M68	EDGEBEAM	0.156	0	16	0.015	3	z	16	16689.74	28012.821	1664.434	482.575	6153.846	12307.692	1	H.1-1
62	M69	EDGEBEAM	0.499	2.5	5	0.054	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
63	M70	EDGEBEAM	0.499	2.5	5	0.054	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
64	M71	EDGEBEAM	0.506	2.5	5	0.057	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
65	M72	EDGEBEAM	0.499	2.5	5	0.054	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
66	M73	EDGEBEAM	0.079	0	5	0.106	0.1	z	5	29591.161	28012.821	1664.434	711.07	6153.846	12307.692	1	H.1-1
67	M74	EDGEBEAM	0.079	0	5	0.106	0.1	z	5	29591.161	28012.821	1664.434	711.07	6153.846	12307.692	1	H.1-1
68	M75	EDGEBEAM	0.08	0	5	0.107	0.1	z	5	29591.161	28012.821	1664.434	711.07	6153.846	12307.692	1	H.1-1
69	M76	EDGEBEAM	0.079	0	5	0.106	0.1	z	5	29591.161	28012.821	1664.434	711.07	6153.846	12307.692	1	H.1-1
70	M77	EDGEBEAM	0.189	0	16	0.03	0	y	8	23349.609	28012.821	1664.434	711.07	6153.846	12307.692	1	H.1-1
71	M78	EDGEBEAM	0.003	2.5	31	0.001	5	z	30	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1

Envelope AA ADM1-20: ASD - BUILDING Member Aluminum Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/Om[lb]	Pnt/Om[lb]	Mny/Om[lb-ft]	Mnz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
72	M79	EDGEBEAM	0.512	2.5	5	0.056	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
73	M80	EDGEBEAM	0.585	2.5	5	0.063	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
74	M81	RT2X2X0.125	0.177	6.6	31	0	6.6	y	30	4519.026	18278.974	975.758	975.758	5000	5000	1.747	H.1-1
75	M82	RT2X2X0.125	0.265	6.6	29	0	6.6	y	30	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
76	M83	EDGEBEAM	0.07	2.5	10	0.006	5	z	25	6008.306	28012.821	1664.434	515.332	6153.846	12307.692	1	H.1-1
77	M84	EDGEBEAM	0.513	2.5	5	0.056	5	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
78	M85	EDGEBEAM	0.585	2.5	5	0.064	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
79	M86	L2X2X0.25	0.317	4.14	31	0	4.14	y	25	2866.035	18395.897	441.491	664.078	5769.231	5769.231	1	H.1-1
80	M87	RT2X2X0.125	0.356	6.6	5	0	6.6	z	31	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
81	M88	RT2X2X0.125	0.602	6.6	5	0	6.6	y	30	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
82	M89	L2X2X0.25	0.232	1.854	29	0	4.14	y	30	2866.035	18395.897	602.75	664.078	5769.231	5769.231	1	H.1-1
83	M90	L2X2X0.25	0.23	1.854	29	0	4.14	y	26	2866.035	18395.897	602.75	664.078	5769.231	5769.231	1	H.1-1
84	M91	L2X2X0.25	0.318	0	31	0	0	y	25	2866.035	18395.897	441.491	664.078	5769.231	5769.231	1	H.1-1
85	M92	EDGEBEAM	0.079	4.9	5	0.003	0	z	30	6256.046	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
86	M93	EDGEBEAM	0.585	2.5	5	0.062	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
87	M94	RT2X2X0.125	0.191	6.6	5	0	6.6	y	24	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
88	M95	EDGEBEAM	0.081	2.807	18	0.007	0	z	31	6256.046	28012.821	1664.434	438.09	6153.846	12307.692	1	H.1-1
89	M96	EDGEBEAM	0.576	2.5	5	0.063	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
90	M97	RT2X2X0.125	0.358	6.6	5	0	6.6	z	29	4519.026	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
91	M98	EDGEBEAM	0.498	2.5	5	0.054	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
92	M99	EDGEBEAM	0.499	2.5	5	0.055	0	z	5	6008.306	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
93	M100	EDGEBEAM	0.079	0	5	0.107	0.1	z	5	29591.161	28012.821	1664.434	711.07	6153.846	12307.692	1	H.1-1
94	M101	EDGEBEAM	0.045	0	18	0.058	0.1	z	5	29591.161	28012.821	1664.434	711.07	6153.846	12307.692	1	H.1-1
95	M102	L2X2X0.25	0.323	2.286	31	0	4.14	y	30	2866.035	18395.897	602.75	664.078	5769.231	5769.231	1	H.1-1
96	M103	L2X2X0.25	0.511	4.14	29	0	4.14	y	24	2866.035	18395.897	441.491	664.078	5769.231	5769.231	1	H.1-1
97	M104	L2X2X0.25	0.511	0	29	0	0	y	30	2866.035	18395.897	441.491	664.078	5769.231	5769.231	1	H.1-1
98	M105	L2X2X0.25	0.325	2.286	31	0	4.14	y	28	2866.035	18395.897	602.75	664.078	5769.231	5769.231	1	H.1-1
99	M106	L2X2X0.25	0.436	1.466	28	0	4.14	y	26	2866.035	18395.897	602.75	664.078	5769.231	5769.231	1	H.1-1
100	M107	L2X2X0.25	0.399	1.854	30	0	4.14	y	29	2866.035	18395.897	602.75	664.078	5769.231	5769.231	1	H.1-1
101	M108	L2X2X0.25	0.393	1.854	28	0	4.14	y	30	2866.035	18395.897	602.75	664.078	5769.231	5769.231	1	H.1-1
102	M109	L2X2X0.25	0.408	4.14	30	0	4.14	y	30	2866.035	18395.897	441.491	664.078	5769.231	5769.231	1	H.1-1
103	M110	L2X2X0.25	0.397	1.854	30	0	4.14	y	30	2866.035	18395.897	602.75	664.078	5769.231	5769.231	1	H.1-1
104	M111	L2X2X0.25	0.435	0	28	0	0	y	31	2866.035	18395.897	441.491	664.078	5769.231	5769.231	1	H.1-1
105	M112	L2X2X0.25	0.408	0	30	0	0	y	30	2866.035	18395.897	441.491	664.078	5769.231	5769.231	1	H.1-1
106	M113	L2X2X0.25	0.39	1.854	28	0	4.14	y	31	2866.035	18395.897	602.75	664.078	5769.231	5769.231	1	H.1-1

Envelope Plate Principal Stresses

	Plate		Surface	Sigma1 [ksi]	LC	Sigma2 [ksi]	LC	Tau Max [ksi]	LC	Angle [rad]	LC	Von Mises [ksi]	LC
1	P1	max	T	0.316	28	0.048	31	0.185	28	2.276	25	0.347	28
2		min		-0.011	33	-0.099	33	0.01	23	-0.699	32	0.029	21
3		max	B	0.316	28	0.048	31	0.185	28	2.276	25	0.347	28
4		min		-0.011	33	-0.099	33	0.01	23	-0.699	32	0.029	21
5	P2	max	T	0.199	28	0.009	35	0.112	28	1.363	33	0.213	28
6		min		-0.012	25	-0.167	34	0.003	9	-0.7	29	0.007	1
7		max	B	0.199	28	0.009	35	0.112	28	1.363	33	0.213	28
8		min		-0.012	25	-0.167	34	0.003	9	-0.7	29	0.007	1
9	P3	max	T	0.182	31	0.048	16	0.13	25	2.339	31	0.226	25
10		min		0.003	22	-0.126	35	0.009	1	-0.782	11	0.02	1
11		max	B	0.182	31	0.048	16	0.13	25	2.339	31	0.226	25
12		min		0.003	22	-0.126	35	0.009	1	-0.782	11	0.02	1
13	P4	max	T	0.178	30	0.017	35	0.099	30	2.094	24	0.189	30
14		min		-0.019	25	-0.13	32	0.004	1	-0.674	20	0.008	1
15		max	B	0.178	30	0.017	35	0.099	30	2.094	24	0.189	30
16		min		-0.019	25	-0.13	32	0.004	1	-0.674	20	0.008	1
17	P5	max	T	0.211	30	0.056	16	0.105	30	2.179	30	0.211	30

Envelope Plate Principal Stresses (Continued)

	Plate		Surface	Sigma1 [ksi]	LC	Sigma2 [ksi]	LC	Tau Max [ksi]	LC	Angle [rad]	LC	Von Mises [ksi]	LC
18		min		0.02	23	-0.114	35	0.002	1	-0.768	26	0.02	1
19		max	B	0.211	30	0.056	16	0.105	30	2.179	30	0.211	30
20		min		0.02	23	-0.114	35	0.002	1	-0.768	26	0.02	1
21	P6	max	T	0.118	32	0.01	24	0.128	30	2.344	16	0.239	30
22		min		-0.002	23	-0.217	30	0.005	9	-0.75	12	0.013	9
23		max	B	0.118	32	0.01	24	0.128	30	2.344	16	0.239	30
24		min		-0.002	23	-0.217	30	0.005	9	-0.75	12	0.013	9
25	P7	max	T	0.139	33	0.008	32	0.144	31	2.335	2	0.261	31
26		min		-0.008	34	-0.221	31	0.007	29	-0.782	31	0.013	29
27		max	B	0.139	33	0.008	32	0.144	31	2.335	2	0.261	31
28		min		-0.008	34	-0.221	31	0.007	29	-0.782	31	0.013	29
29	P8	max	T	0.211	34	0.058	30	0.166	28	2.3	10	0.3	28
30		min		-0.014	32	-0.25	28	0.01	1	-0.775	22	0.018	1
31		max	B	0.211	34	0.058	30	0.166	28	2.3	10	0.3	28
32		min		-0.014	32	-0.25	28	0.01	1	-0.775	22	0.018	1
33	P9	max	T	0.088	29	0.017	16	0.057	25	2.322	33	0.099	29
34		min		-0.002	22	-0.054	33	0.004	26	-0.025	26	0.007	26
35		max	B	0.088	29	0.017	16	0.057	25	2.322	33	0.099	29
36		min		-0.002	22	-0.054	33	0.004	26	-0.025	26	0.007	26
37	P10	max	T	0.119	20	0.024	16	0.074	18	2.296	27	0.151	18
38		min		-0.018	22	-0.154	18	0.007	1	-0.775	23	0.012	1
39		max	B	0.119	20	0.024	16	0.074	18	2.296	27	0.151	18
40		min		-0.018	22	-0.154	18	0.007	1	-0.775	23	0.012	1
41	P11	max	T	0.135	31	0.013	34	0.074	31	1.697	33	0.142	31
42		min		-0.017	24	-0.093	33	0.002	9	-0.027	34	0.007	1
43		max	B	0.135	31	0.013	34	0.074	31	1.697	33	0.142	31
44		min		-0.017	24	-0.093	33	0.002	9	-0.027	34	0.007	1
45	P12	max	T	0.171	31	0.041	30	0.118	25	2.308	26	0.206	25
46		min		0.012	32	-0.111	35	0.01	1	-0.672	34	0.022	1
47		max	B	0.171	31	0.041	30	0.118	25	2.308	26	0.206	25
48		min		0.012	32	-0.111	35	0.01	1	-0.672	34	0.022	1
49	P13	max	T	0.108	34	0.006	34	0.085	31	1.291	32	0.165	28
50		min		-0.007	24	-0.162	28	0.003	1	-0.618	22	0.007	1
51		max	B	0.108	34	0.006	34	0.085	31	1.291	32	0.165	28
52		min		-0.007	24	-0.162	28	0.003	1	-0.618	22	0.007	1
53	P14	max	T	0.136	33	0.002	26	0.118	31	2.331	33	0.212	31
54		min		0.002	32	-0.176	31	0.005	8	-0.379	34	0.009	8
55		max	B	0.136	33	0.002	26	0.118	31	2.331	33	0.212	31
56		min		0.002	32	-0.176	31	0.005	8	-0.379	34	0.009	8

Envelope Plate Forces (per ft)

	Plate		Qx [lb]	LC	Qy [lb]	LC	Mx [lb-ft]	LC	My [lb-ft]	LC	Mxy [lb-ft]	LC	Fx [lb]	LC	Fy [lb]	LC	Fxy [lb]	LC
1	P1	max	0	35	0	35	0	35	0	35	0	35	107.734	31	19.375	31	35.469	34
2		min	0	1	0	1	0	1	0	1	0	1	-24.388	33	-15.097	33	-52.399	28
3	P2	max	1.248	30	0	35	0	35	0	35	0	35	57.946	28	10.451	32	26.927	26
4		min	0	1	0	1	0	1	0	1	0	1	-45.142	34	-11.922	26	-30.427	28
5	P3	max	0	35	0	35	0	35	0	35	0	35	31.541	16	56.16	29	41.479	33
6		min	0	1	0	1	0	1	0	1	0	1	-28.849	22	-16.821	35	-43.472	31
7	P4	max	1.454	34	0	35	0	35	0	35	0	35	56.664	30	15.506	35	21.951	30
8		min	-1.48	24	0	1	0	1	0	1	0	1	-36.748	32	-22.292	29	-18.147	24
9	P5	max	0	35	0	35	0	35	0	35	0	35	43.447	29	53.275	31	27.858	32
10		min	0	1	0	1	0	1	0	1	0	1	-32.678	35	-8.003	33	-35.484	30
11	P6	max	0	35	4.787	16	0	35	0	35	0	35	35.048	33	11.203	32	16.188	32
12		min	0	1	0	10	0	1	0	1	0	1	-51.407	31	-13.502	30	-42.07	30
13	P7	max	0	35	0	22	0	35	0	35	0	35	25.853	20	19.804	33	32.327	33

Envelope Plate Forces (per ft) (Continued)

	Plate		Qx [lb]	LC	Qy [lb]	LC	Mx [lb-ft]	LC	My [lb-ft]	LC	Mxy [lb-ft]	LC	Fx [lb]	LC	Fy [lb]	LC	Fxy [lb]	LC
14		min	0	1	-15.595	16	0	1	0	1	0	1	-35.239	18	-27.91	31	-51.962	31
15	P8	max	0	35	0	35	0	35	0	35	0	35	60.924	34	47.149	30	42.284	28
16		min	-1.513	28	0	1	0	1	0	1	0	1	-72.584	28	-20.558	32	-27.227	34
17	P9	max	0	35	67.447	5	0	35	0	35	0	35	6.102	16	29.918	16	20.281	35
18		min	0	1	5.459	22	0	1	0	1	0	1	-0.789	22	-10.431	22	-20.377	25
19	P10	max	1.547	8	0	35	0	35	0	35	0	35	11.6	29	42.812	20	18.885	33
20		min	-2.169	18	0	1	0	1	0	1	0	1	-9.868	35	-55.22	18	-18.992	27
21	P11	max	0	35	0	35	0	35	0	35	0	35	43.435	31	4.753	34	15.781	31
22		min	0	1	0	1	0	1	0	1	0	1	-32.968	33	-7.198	28	-3.564	33
23	P12	max	0	35	0	35	0	35	0	35	0	35	20.89	31	49.52	29	39.966	31
24		min	0	1	0	1	0	1	0	1	0	1	-12.517	33	-12.787	35	-38.088	33
25	P13	max	0	35	0	35	0	35	0	35	0	35	36.656	34	4.542	34	24.47	31
26		min	0	1	0	1	0	1	0	1	0	1	-47.161	28	-9.145	28	-10.189	33
27	P14	max	0	35	0	35	0	35	0	35	0	35	15.945	33	19.171	33	42.389	31
28		min	0	1	0	1	0	1	0	1	0	1	-21.086	31	-20.647	31	-31.486	33

Envelope Plate/Shell Corner Forces

	Plate	Node		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	P1	N43	max	82.79	32	10.668	25	95.871	34	2.344	33	0.001	32	5.387	29
2			min	-105.885	30	-0.412	2	-136.461	28	-4.22	31	-0.002	30	-4.682	35
3		N44	max	85.868	34	13.615	24	81.473	34	2.344	33	0.002	31	13.847	32
4			min	-468.983	28	-1.603	34	-125.534	28	-4.218	31	-0.001	33	-14.596	26
5		N56	max	374.329	31	14.835	30	95.4	28	1.174	33	0.002	33	13.846	32
6			min	-130.247	33	-1.334	32	-94.686	26	-4.435	31	-0.006	31	-14.595	26
7		N39	max	235.201	28	8.932	27	166.595	28	1.174	33	0	35	5.386	29
8			min	-84.491	34	-2.025	2	-83.003	34	-4.437	31	0	1	-4.682	35
9	P2	N39	max	32.467	22	8.496	27	37.755	34	1.462	32	0	35	3.263	35
10			min	-61.64	16	-1.586	2	-53.176	28	-5.243	30	0	1	-3.57	25
11		N56	max	231.214	34	15.862	30	97.001	26	1.462	32	0.002	33	15.272	30
12			min	-256.875	28	-1.475	32	-98.959	28	-5.24	30	-0.006	31	-13.712	32
13		N37	max	126.92	27	13.2	24	74.353	28	0.998	33	0	35	15.272	30
14			min	-124.708	33	-1.063	34	-38.887	34	-4.369	31	0	1	-13.708	32
15		N40	max	184.992	28	9.39	25	90.476	32	0.997	33	0	35	3.262	35
16			min	-128.886	34	-1.132	2	-97.246	26	-4.371	31	0	1	-3.568	25
17	P3	N40	max	87.127	35	9.032	25	136.392	25	1.317	25	0	35	2.124	33
18			min	-90.307	25	-1.64	2	-126.566	35	-2.493	2	0	1	-3.122	31
19		N37	max	163.509	33	8.362	24	73.497	33	1.318	25	0	35	2.36	32
20			min	-180.51	31	-0.745	2	-120.598	31	-2.491	2	0	1	-6.986	30
21		N38	max	44.536	25	11.07	30	166.011	35	3.37	8	0.008	5	2.356	32
22			min	-42.033	35	2.84	32	-277.31	29	-2.92	2	0	35	-6.981	30
23		N41	max	140.015	31	9.429	24	238.033	28	3.372	8	0.008	29	2.122	33
24			min	-117.918	33	-0.525	2	-32.786	34	-2.922	2	-0.001	35	-3.121	31
25	P4	N55	max	102.744	32	8.918	27	75.418	34	1.223	33	0	35	4.564	35
26			min	-152.704	30	-1.533	2	-78.16	24	-3.274	31	0	1	-5.221	29
27		N42	max	146.917	33	14.25	26	72.569	29	1.224	33	0	35	17.041	26
28			min	-180.236	31	-1.886	32	-59.549	35	-3.272	31	0	1	-16.817	32
29		N44	max	240.37	30	15.169	24	87.742	24	2.369	33	0.002	31	17.042	26
30			min	-171.266	32	-2.97	34	-78.928	34	-3.636	31	-0.001	33	-16.819	32
31		N43	max	83.486	31	10.632	25	93.299	35	2.369	33	0.001	32	4.565	35
32			min	-65.881	33	-0.207	2	-136.966	29	-3.638	31	-0.002	30	-5.222	29
33	P5	N53	max	64.862	35	12.586	24	206.676	31	1.03	2	0.002	34	12.66	24
34			min	-99.838	25	-0.61	34	-90.309	33	-1.389	26	-0.004	28	-11.964	34
35		N43	max	98.526	35	10.322	29	91.247	32	1.032	2	0.001	32	6.402	29
36			min	-142.74	29	0.93	2	-279.258	30	-1.389	26	-0.002	30	-2.814	35
37		N39	max	57.02	24	10.614	27	63.218	33	1.018	22	0	35	6.4	29

Envelope Plate/Shell Corner Forces (Continued)

	Plate	Node		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
38			min	-44.492	30	-0.512	2	-77.026	27	-7.956	16	0	1	-2.813	35
39		N50	max	228.785	29	11.937	26	154.891	30	1.018	22	0.004	30	12.659	24
40			min	-174.079	35	-2.231	32	-75.166	32	-7.958	16	-0.001	32	-11.964	34
41	P6	N50	max	317.867	30	17.48	30	71.677	32	14.735	16	0.004	30	12.905	26
42			min	-155.878	32	0.242	32	-149.118	30	0.174	22	-0.001	32	-12.735	32
43		N39	max	34.291	22	7.243	27	23.799	33	14.738	16	0	35	2.277	35
44			min	-100.735	16	-4.352	2	-72.066	31	0.174	22	0	1	-3.796	29
45		N40	max	94.911	32	6.127	10	128.742	30	45.103	16	0	35	2.276	35
46			min	-146.825	30	-9.552	16	-65.277	32	-1.707	22	0	1	-3.792	29
47		N51	max	93.97	33	27.123	28	85.99	31	45.1	16	0	35	12.902	26
48			min	-121.338	31	1.208	34	-21.699	33	-1.707	22	0	1	-12.732	32
49	P7	N51	max	217.318	31	5.667	10	102.279	33	1.764	22	0	35	2.042	32
50			min	-136.732	33	-8.989	16	-157.358	31	-39.823	16	0	1	-4.05	30
51		N40	max	62.808	22	23.396	16	59.358	33	1.764	22	0	35	2.462	25
52			min	-85.34	16	4.049	22	-102.453	31	-39.82	16	0	1	-2.071	35
53		N41	max	102.626	33	69.889	16	242.003	31	7.117	22	0.008	29	2.461	25
54			min	-178.041	31	1.586	22	-158.378	33	-155.108	16	-0.001	35	-2.07	35
55		N35	max	51.922	16	7.808	22	22.31	17	7.117	22	0.08	22	2.039	32
56			min	-36.908	22	-53.671	16	-8.942	23	-155.112	16	-0.081	8	-4.046	30
57	P8	N54	max	194.809	31	13.286	26	105.686	29	3.421	29	0	35	14.505	34
58			min	-154.59	33	-1.326	32	-41.605	35	-0.523	35	0	1	-15.757	24
59		N55	max	179.135	28	8.711	27	119.946	28	3.422	29	0	35	2.549	35
60			min	-165.187	34	-2.418	2	-113.505	34	-0.521	35	0	1	-6.151	29
61		N43	max	127.204	29	9.06	25	-6.493	35	5.811	28	0.001	32	2.55	35
62			min	-96.792	35	-0.054	2	-190.702	3	-1.332	34	-0.002	30	-6.152	29
63		N53	max	275.567	34	15.863	28	186.346	30	5.809	28	0.002	34	14.506	34
64			min	-395.208	28	-1.741	34	-135.628	32	-1.332	34	-0.004	28	-15.758	24
65	P9	N7	max	18.702	33	10.892	35	37.31	35	0.284	29	0.168	33	384.263	5
66			min	-75.197	31	-146.784	29	-48.247	29	-0.263	35	-0.227	31	30.203	22
67		N6	max	22.641	35	9.476	33	44.909	27	0.275	25	0.177	25	315.246	5
68			min	-65.701	29	-121.435	31	-40.587	33	-0.267	35	-0.179	27	25.889	35
69		N27	max	78.845	31	161.29	29	44.212	29	2.416	8	2.797	18	315.233	5
70			min	-48.913	33	-31.374	35	-35.158	35	-3.479	18	-2.001	8	25.888	35
71		N26	max	107.446	29	173.586	31	43.28	33	2.429	8	2.843	18	384.251	5
72			min	-50.885	35	-27.566	33	-46.871	27	-3.357	18	-1.996	8	30.202	22
73	P10	N27	max	65.664	20	74.708	18	50.557	33	3.527	29	2.409	27	0.178	22
74			min	-79.06	18	-51.92	20	-51.505	27	-2.934	27	-2.98	29	-0.891	16
75		N52	max	80.352	18	55.18	8	39.583	16	13.851	18	8.17	8	0.18	22
76			min	-70.782	20	-55.142	10	-14.136	22	-9.843	8	-11.452	18	-0.894	16
77		N46	max	89.753	18	62.608	8	75.8	35	13.872	18	8.097	8	0.167	22
78			min	-61.55	20	-79.706	18	-83.899	25	-9.884	8	-11.423	18	-1.25	16
79		N26	max	66.669	20	78.896	18	25.125	25	3.632	29	2.417	27	0.165	22
80			min	-91.045	18	-49.15	20	-24.631	35	-2.923	27	-2.921	29	-1.247	16
81	P11	N66	max	55.784	32	9.573	25	35.601	31	1.378	25	0	35	3.413	25
82			min	-110.891	30	-1.492	2	-25.724	25	-4.015	31	0	1	-3.271	35
83		N67	max	116.882	25	10.87	24	56.288	28	1.379	25	0	35	8.153	32
84			min	-116.852	27	0.385	2	-9.951	34	-4.012	31	0	1	-8.758	30
85		N42	max	191.194	31	12.436	30	19.432	33	0.727	33	0	35	8.155	32
86			min	-134.651	33	1.185	32	-45.378	31	-3.46	31	0	1	-8.757	30
87		N55	max	66.445	26	8.651	27	16.493	34	0.726	33	0	35	3.415	25
88			min	-63.668	32	-1.015	2	-47.276	28	-3.462	31	0	1	-3.272	35
89	P12	N71	max	104.12	33	8.882	31	196.263	31	1.037	35	0.002	31	3.719	30
90			min	-135.512	31	0.358	2	-6.737	33	-2.32	29	-0.001	25	-1.814	32
91		N65	max	38.914	35	12.22	30	142.302	35	1.036	35	0.006	32	9.847	30
92			min	-42.422	25	1.278	32	-242.292	29	-2.318	29	-0.007	30	-8.261	32

Envelope Plate/Shell Corner Forces (Continued)

	Plate	Node		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
93		N67	max	168.769	31	10.965	24	67.665	33	0.412	33	0	35	9.85	30
94			min	-148.906	33	-0.279	2	-115.458	31	-2.598	31	0	1	-8.263	32
95		N66	max	88.168	25	8.509	25	125.995	25	0.412	33	0	35	3.72	30
96			min	-80.873	35	-1.869	2	-113.245	35	-2.599	31	0	1	-1.814	32
97	P13	N69	max	110.415	31	11.264	28	52.578	31	3.068	2	0	35	7.402	24
98			min	-90.421	33	1.481	2	-19.717	33	-0.319	27	0	1	-6.816	34
99		N66	max	131.501	28	8.749	25	73.071	28	3.071	2	0	35	3.182	29
100			min	-101.275	34	-0.876	2	-35.399	34	-0.319	27	0	1	-2.278	35
101		N55	max	68.911	30	9.092	27	21.42	25	3.101	29	0	35	3.187	29
102			min	-52.558	32	-1.373	2	-33.644	31	-1.488	27	0	1	-2.278	35
103		N54	max	141.365	33	10.481	26	31.528	34	3.099	29	0	35	7.404	24
104			min	-232.767	31	0.768	2	-90.162	28	-1.489	27	0	1	-6.818	34
105	P14	N70	max	24.563	33	10.964	26	19.849	31	3.919	29	0	35	7.816	34
106			min	-33.951	31	0.824	2	-4.181	33	-3.708	35	0	1	-7.884	24
107		N71	max	139.38	31	9.711	27	192.096	31	3.92	29	0.002	31	2.261	31
108			min	-104.286	33	0.079	2	-153.249	33	-3.708	35	-0.001	25	-1.766	25
109		N66	max	72.565	31	8.296	24	57.392	33	3.471	29	0	35	2.262	31
110			min	-53.144	33	-1.447	2	-88.861	31	-1.463	35	0	1	-1.767	25
111		N69	max	132.867	33	10.841	24	100.038	33	3.469	29	0	35	7.818	34
112			min	-177.994	31	0.545	2	-123.084	31	-1.464	35	0	1	-7.886	24

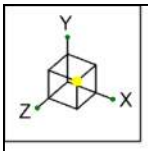
Load Combination Design

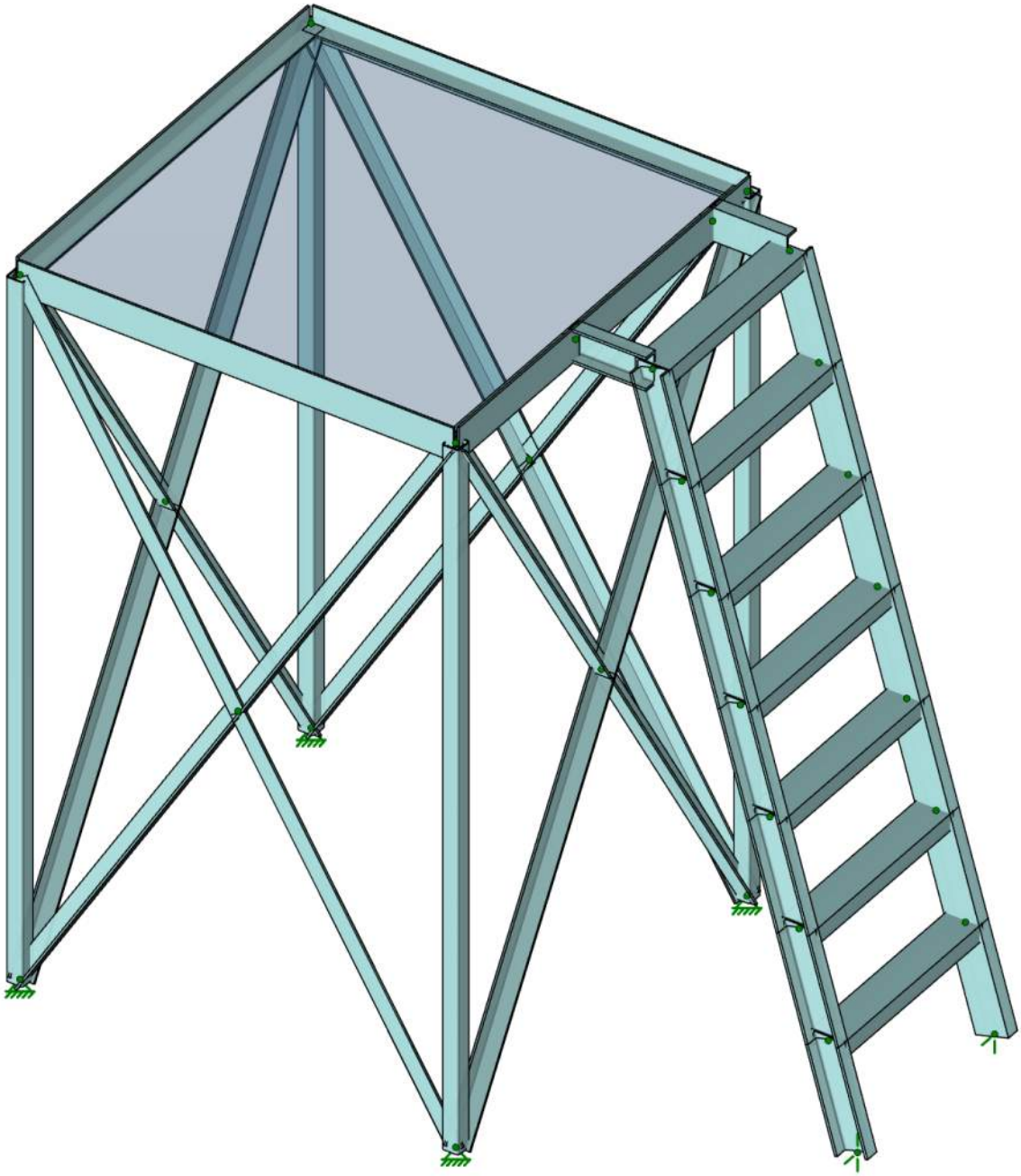
	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
1	Deflection 1		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	Deflection 2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	Deflection 3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	IBC 21/ASCE ASD 1	0.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	IBC 21/ASCE ASD 2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	IBC 21/ASCE ASD 3 (b)	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	IBC 21/ASCE ASD 4 (b)	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8	IBC 21/ASCE ASD 5 (a) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	IBC 21/ASCE ASD 5 (a) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	IBC 21/ASCE ASD 5 (a) (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	IBC 21/ASCE ASD 5 (a) (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12	IBC 21/ASCE ASD 6 (a) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13	IBC 21/ASCE ASD 6 (a) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14	IBC 21/ASCE ASD 6 (a) (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
15	IBC 21/ASCE ASD 6 (a) (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
16	IBC 21/ASCE ASD 6 (b) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
17	IBC 21/ASCE ASD 6 (b) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
18	IBC 21/ASCE ASD 6 (b) (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19	IBC 21/ASCE ASD 6 (b) (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
20	IBC 21/ASCE ASD 7 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
21	IBC 21/ASCE ASD 7 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
22	IBC 21/ASCE ASD 7 (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
23	IBC 21/ASCE ASD 7 (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
24	IBC 21/ASCE ASD 8 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
25	IBC 21/ASCE ASD 8 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
26	IBC 21/ASCE ASD 8 (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
27	IBC 21/ASCE ASD 8 (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
28	IBC 21/ASCE ASD 9 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
29	IBC 21/ASCE ASD 9 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
30	IBC 21/ASCE ASD 9 (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
31	IBC 21/ASCE ASD 9 (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
32	IBC 21/ASCE ASD 10 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Load Combination Design (Continued)

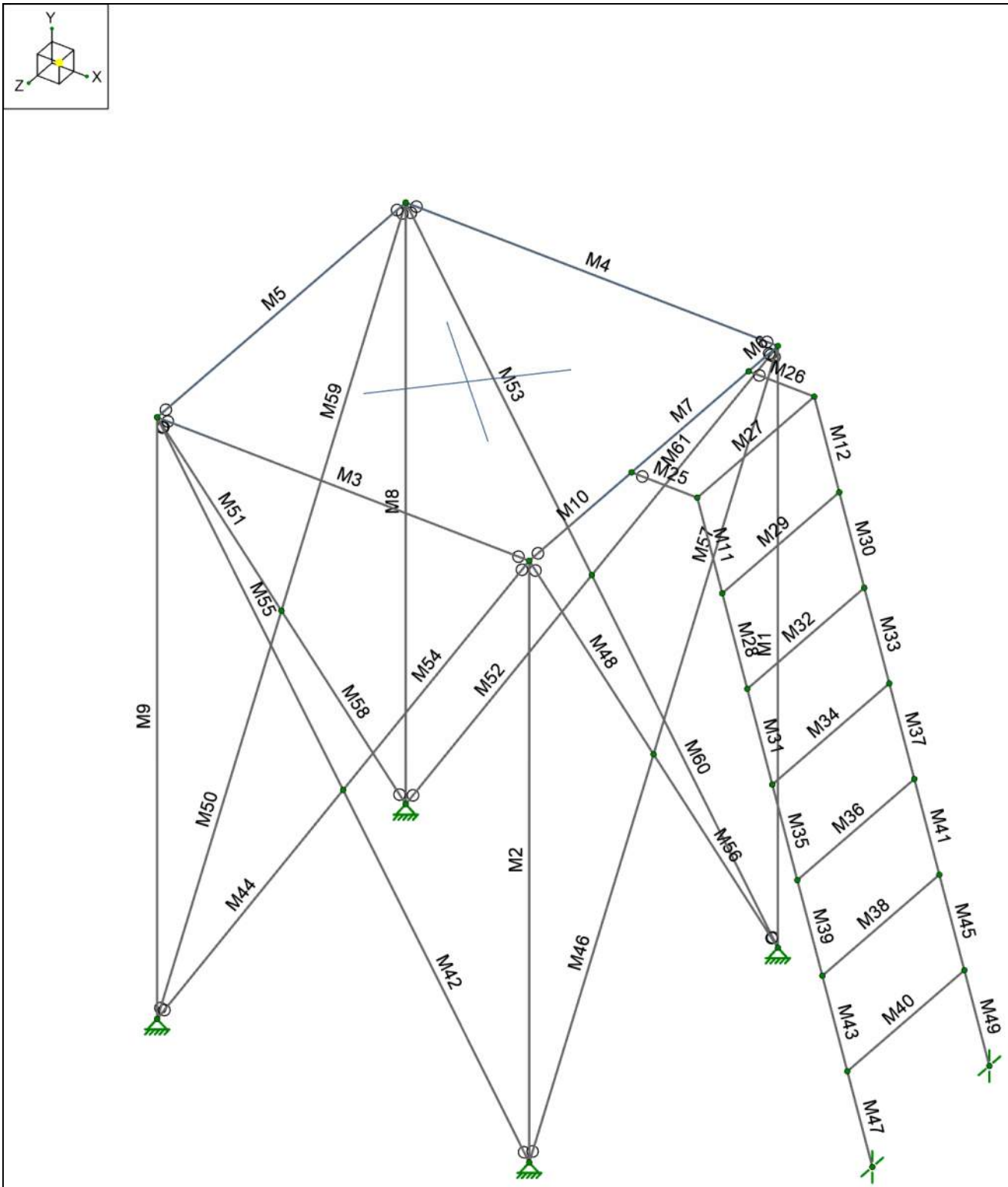
	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
33	IBC 21/ASCE ASD 10 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
34	IBC 21/ASCE ASD 10 (c)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
35	IBC 21/ASCE ASD 10 (d)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

REMOVABLE LANDING AND LADDER STRUCTURAL CALCULATIONS

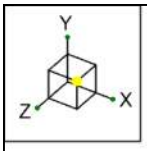


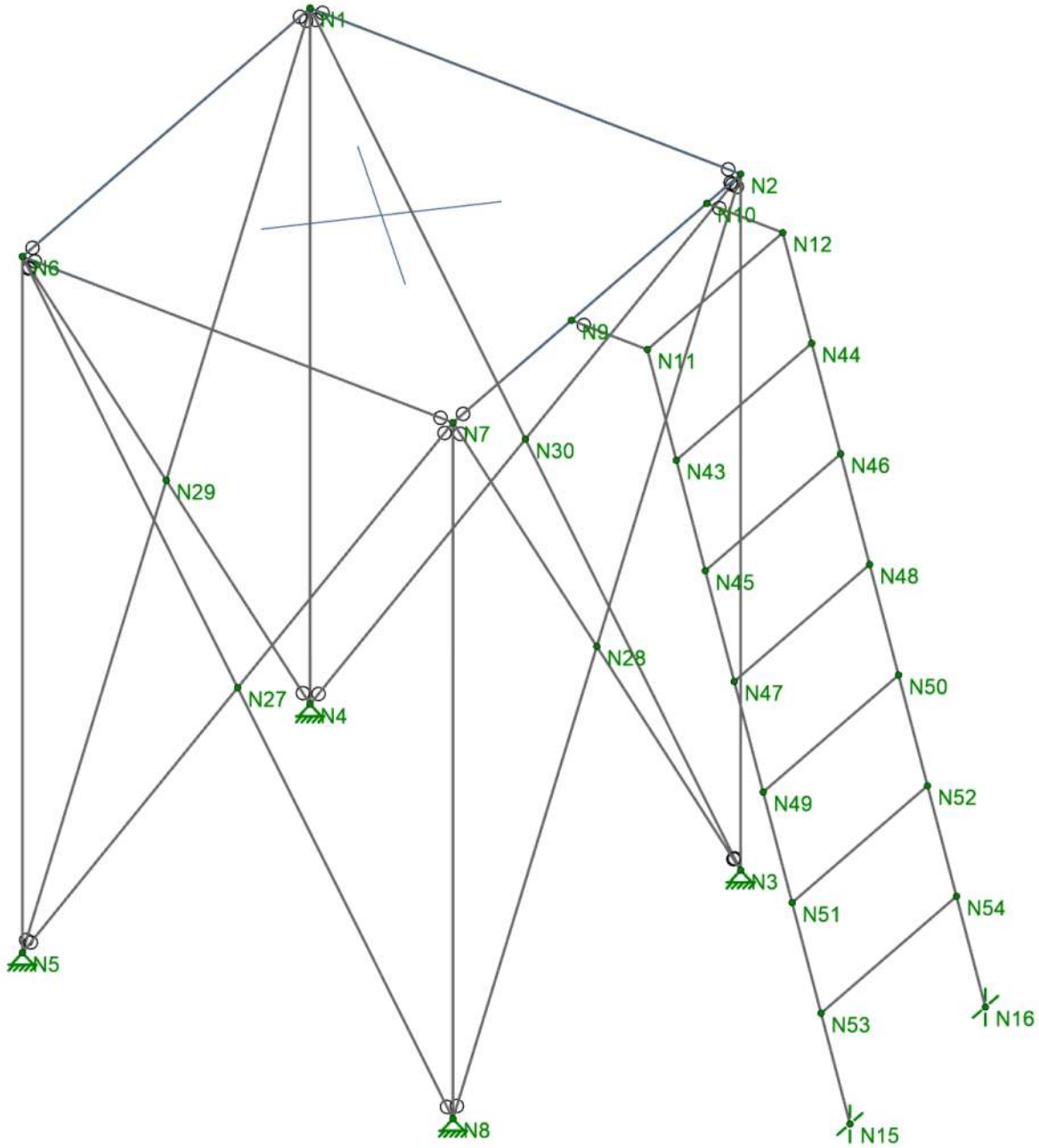


RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Access Platform w/ Ladder	SK-1
	AMP		Feb 21, 2025 at 12:00 PM
	2241015.20		Access Platform with Ladder.…

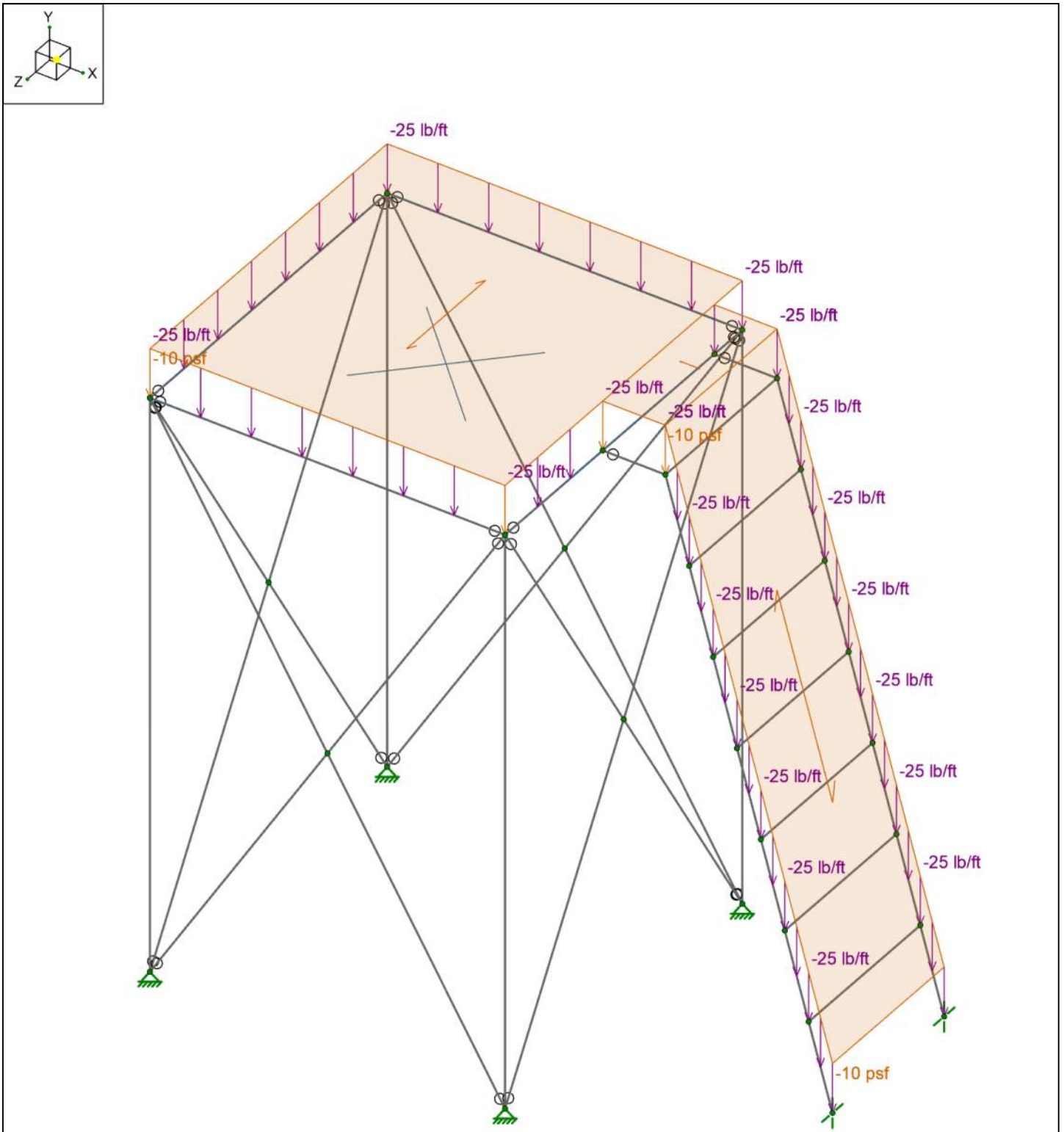


IRISA A NEMETSCHEK COMPANY	AHBL, Inc.	Access Platform w/ Ladder	SK-2
	AMP		Feb 21, 2025 at 12:00 PM
	2241015.20		Access Platform with Ladder....



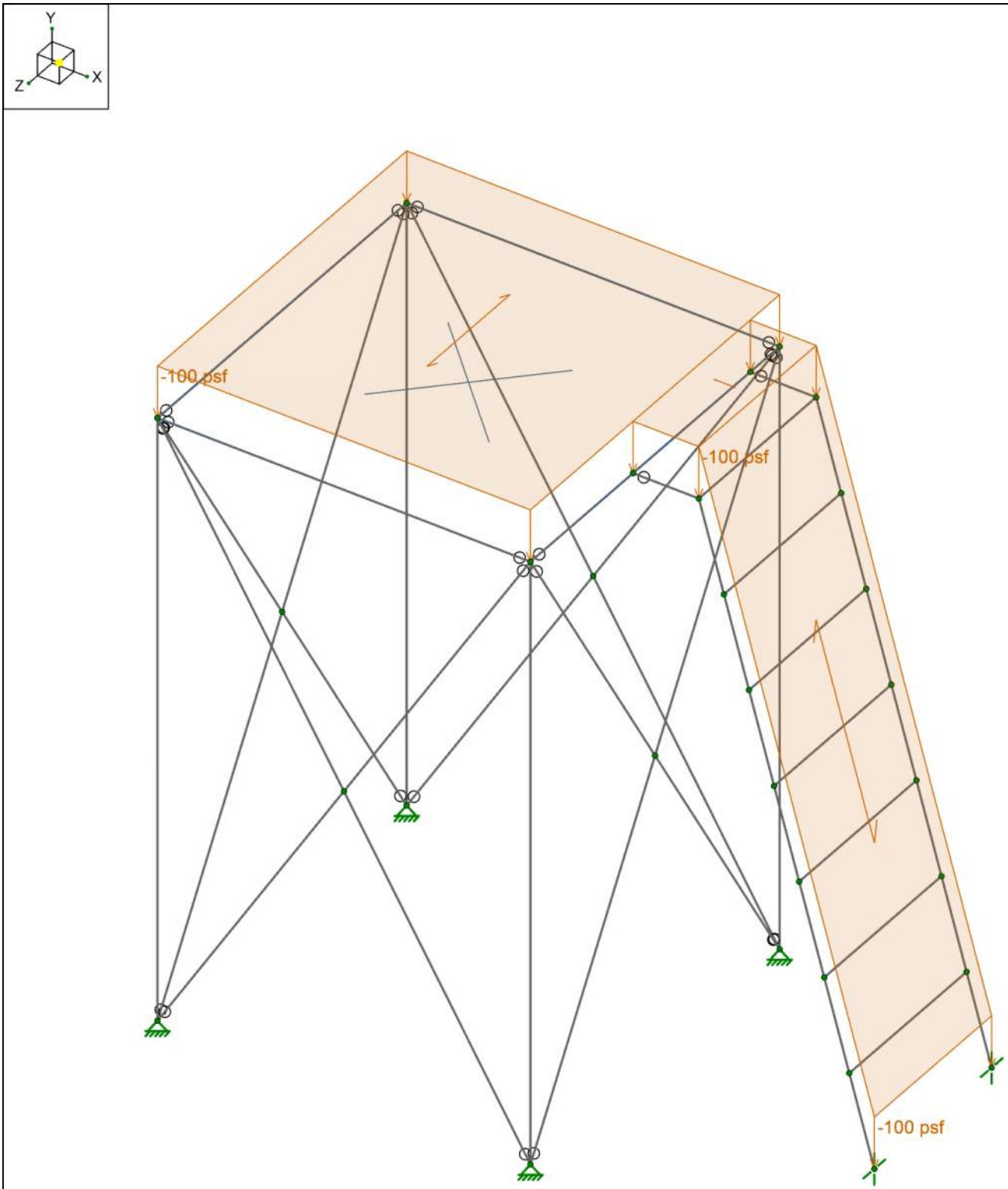


IRISA A NEMETSCHEK COMPANY	AHBL, Inc.	Access Platform w/ Ladder	SK-3
	AMP		Feb 21, 2025 at 12:01 PM
	2241015.20		Access Platform with Ladder....



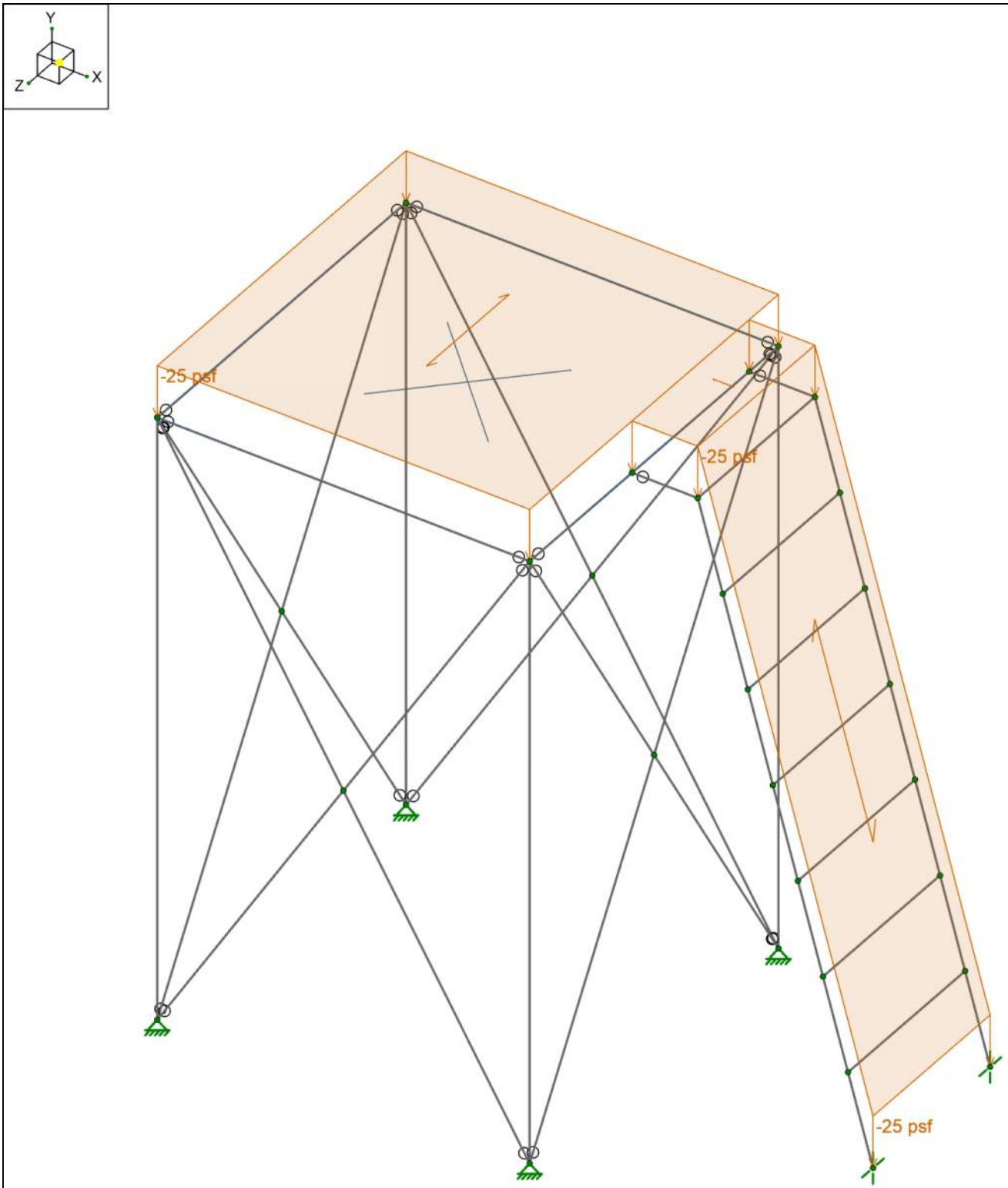
Loads: BLC 1, Dead

IRISA A NEMETSCHEK COMPANY	AHBL, Inc.	Access Platform w/ Ladder	SK-4
	AMP		Feb 21, 2025 at 12:01 PM
	2241015.20		Access Platform with Ladder....



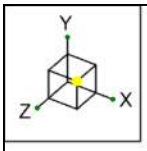
Loads: BLC 2, Live

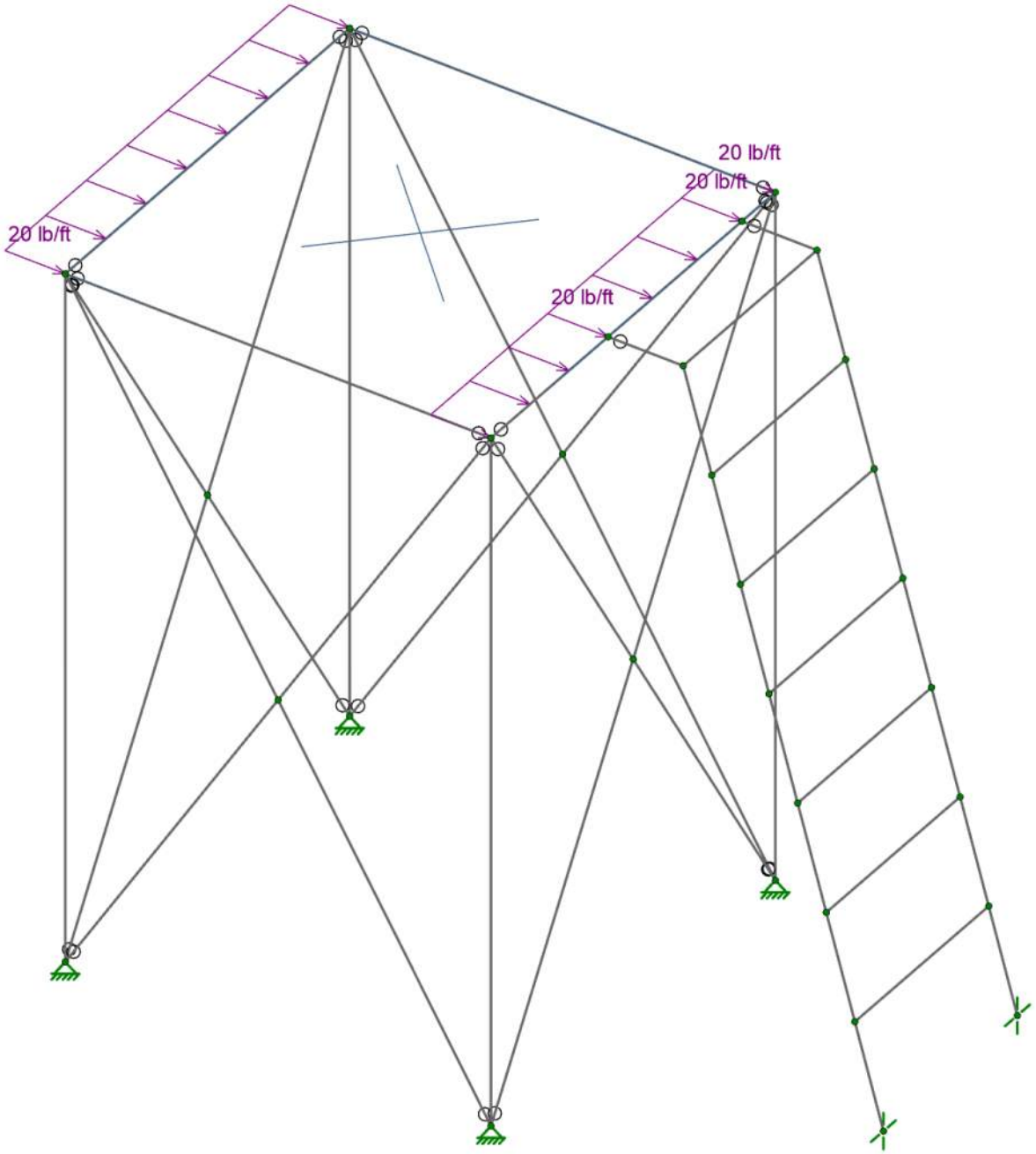
IRISA	AHBL, Inc.	Access Platform w/ Ladder	SK-5
	AMP		Feb 21, 2025 at 12:01 PM
	2241015.20		Access Platform with Ladder....



Loads: BLC 3, Snow

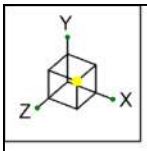
IRISA	AHBL, Inc.	Access Platform w/ Ladder	SK-6
	AMP		Feb 21, 2025 at 12:02 PM
	2241015.20		Access Platform with Ladder....

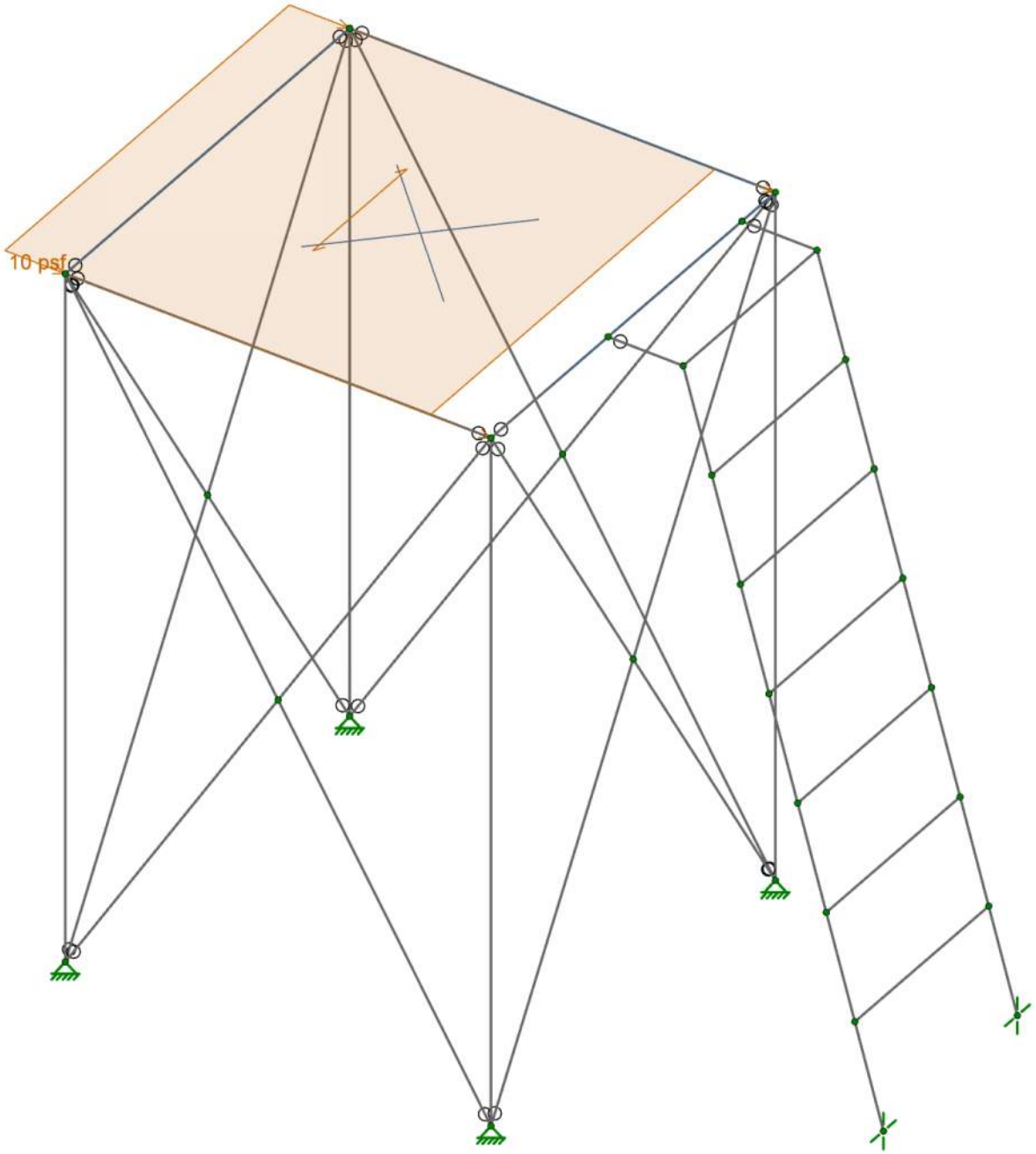




Loads: BLC 4, Wind

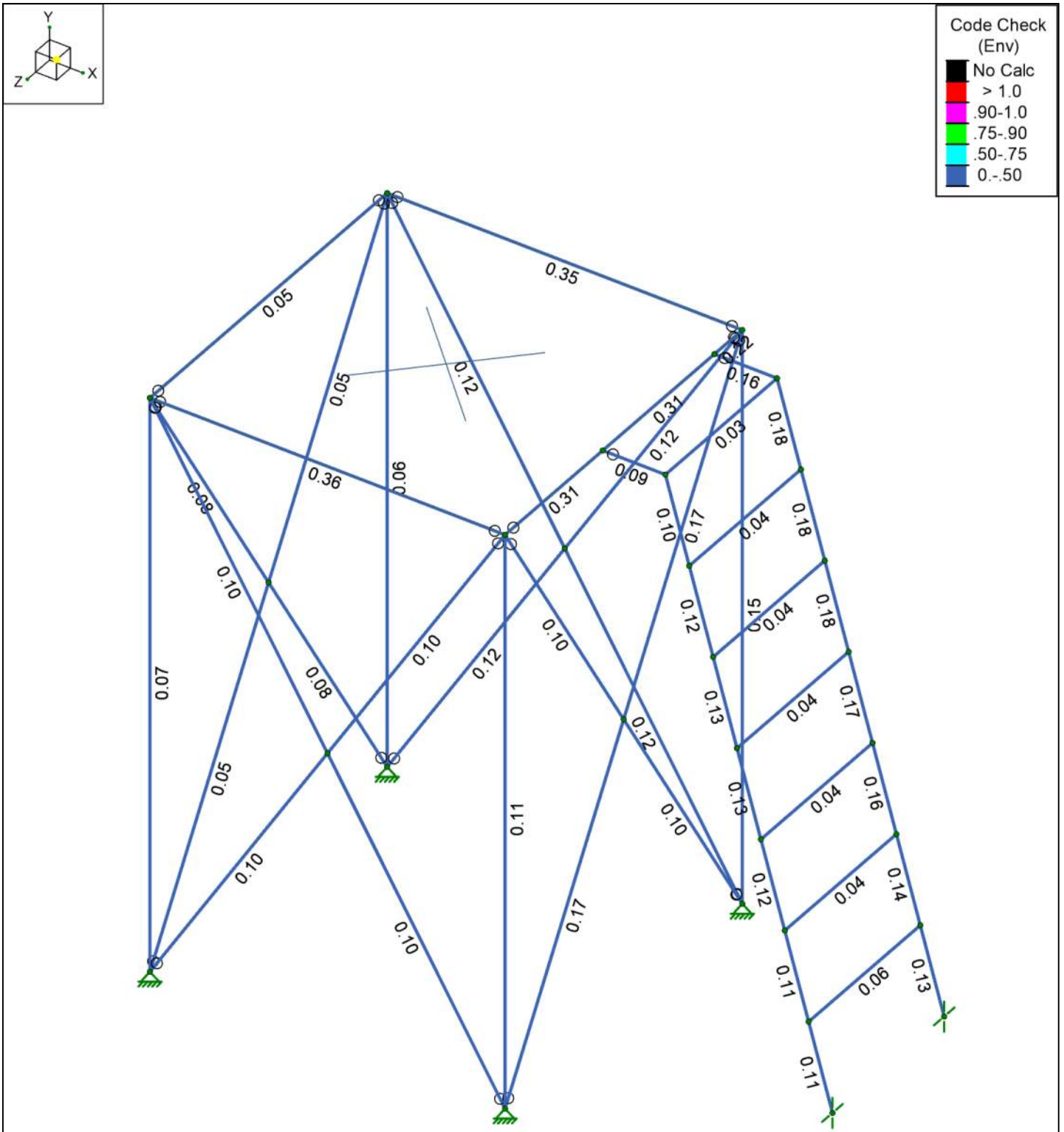
IRISA A NEMETSCHEK COMPANY	AHBL, Inc.	Access Platform w/ Ladder	SK-7
	AMP		Feb 21, 2025 at 12:02 PM
	2241015.20		Access Platform with Ladder....





Loads: BLC 5, Seismic

IRISA A NEMETSCHEK COMPANY	AHBL, Inc.	Access Platform w/ Ladder	SK-8
	AMP		Feb 21, 2025 at 12:02 PM
	2241015.20		Access Platform with Ladder....



Member Code Checks Displayed (Enveloped)

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Access Platform w/ Ladder	SK-9
	AMP		Feb 21, 2025 at 12:03 PM
	2241015.20		Access Platform with Ladder....

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	N1	0.75	7	0	
2	N2	5	7	0	
3	N3	5	0	0	
4	N4	0.75	0	0	
5	N5	0.75	0	4.25	
6	N6	0.75	7	4.25	
7	N7	5	7	4.25	
8	N8	5	0	4.25	
9	N9	5	7	2.5	
10	N10	5	7	0.5	
11	N11	5.75	7	2.5	
12	N12	5.75	7	0.5	
13	N15	7.75	0	2.5	
14	N16	7.75	0	0.5	
15	N43	6.035714	6	2.5	
16	N44	6.035714	6	0.5	
17	N45	6.321429	5	2.5	
18	N46	6.321429	5	0.5	
19	N47	6.607143	4	2.5	
20	N48	6.607143	4	0.5	
21	N49	6.892857	3	2.5	
22	N50	6.892857	3	0.5	
23	N51	7.178571	2	2.5	
24	N52	7.178571	2	0.5	
25	N53	7.464286	1	2.5	
26	N54	7.464286	1	0.5	
27	N27	2.875	3.5	4.25	
28	N28	5	3.5	2.125	
29	N29	0.75	3.5	2.125	
30	N30	2.875	3.5	0	

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]
1	N3	Reaction	Reaction	Reaction
2	N4	Reaction	Reaction	Reaction
3	N5	Reaction	Reaction	Reaction
4	N8	Reaction	Reaction	Reaction
5	N15		Reaction	Reaction
6	N16		Reaction	Reaction

Aluminum Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e^{5}°F^{-1}]	Density [k/ft^{3}]	Table B.4	kt	Ftu [ksi]	Fty [ksi]	Fcy [ksi]	Fsu [ksi]	Ct
1	3003-H14	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	19	16	13	12	141
2	6061-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	38	35	35	24	141
3	6063-T5	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	22	16	16	13	141
4	6063-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	30	25	25	19	141
5	5052-H34	10200	3787.5	0.33	1.3	0.173	Table B.4-1	1	34	26	24	20	141
6	6061-T6 W	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	24	15	15	15	141

Aluminum Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Ladder	USC4X1.85	None	None	6061-T6	Typical	1.57	0.32	3.83	0.031
2	Post	RT2X2X0.125	Column	Rectangular Tubes	6061-T6	Typical	0.938	0.552	0.552	0.824
3	Landing Edge Bm	EDGEBEAM	Beam	None	6061-T6	Typical	1.438	1.336	0.421	0.03
4	L Brace	L2X2X0.25	VBrace	None	6061-T6	Typical	0.944	0.342	0.342	0.018
5	Ladder Tread	AACS4X1.74	VBrace	None	6061-T6	Typical	1.48	0.601	3.91	0.02

Member Primary Data

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N3	N2		Post	Column	Rectangular Tubes	6061-T6	Typical
2	M2	N8	N7		Post	Column	Rectangular Tubes	6061-T6	Typical
3	M3	N7	N6	270	Landing Edge Bm	Beam	None	6061-T6	Typical
4	M4	N1	N2	270	Landing Edge Bm	Beam	None	6061-T6	Typical
5	M5	N6	N1	270	Landing Edge Bm	Beam	None	6061-T6	Typical
6	M6	N2	N10	270	Landing Edge Bm	Beam	None	6061-T6	Typical
7	M7	N10	N9	270	Landing Edge Bm	Beam	None	6061-T6	Typical
8	M8	N4	N1		Post	Column	Rectangular Tubes	6061-T6	Typical
9	M9	N5	N6		Post	Column	Rectangular Tubes	6061-T6	Typical
10	M10	N9	N7	270	Landing Edge Bm	Beam	None	6061-T6	Typical
11	M11	N11	N43		Ladder	None	None	6061-T6	Typical
12	M12	N12	N44	180	Ladder	None	None	6061-T6	Typical
13	M28	N43	N45		Ladder	None	None	6061-T6	Typical
14	M30	N44	N46	180	Ladder	None	None	6061-T6	Typical
15	M31	N45	N47		Ladder	None	None	6061-T6	Typical
16	M33	N46	N48	180	Ladder	None	None	6061-T6	Typical
17	M35	N47	N49		Ladder	None	None	6061-T6	Typical
18	M37	N48	N50	180	Ladder	None	None	6061-T6	Typical
19	M39	N49	N51		Ladder	None	None	6061-T6	Typical
20	M41	N50	N52	180	Ladder	None	None	6061-T6	Typical
21	M43	N51	N53		Ladder	None	None	6061-T6	Typical
22	M45	N52	N54	180	Ladder	None	None	6061-T6	Typical
23	M47	N53	N15		Ladder	None	None	6061-T6	Typical
24	M49	N54	N16	180	Ladder	None	None	6061-T6	Typical
25	M25	N11	N9	180	Ladder	None	None	6061-T6	Typical
26	M26	N12	N10		Ladder	None	None	6061-T6	Typical
27	M27	N11	N12	90	Ladder Tread	VBrace	None	6061-T6	Typical
28	M29	N43	N44	90	Ladder Tread	VBrace	None	6061-T6	Typical
29	M32	N45	N46	90	Ladder Tread	VBrace	None	6061-T6	Typical
30	M34	N47	N48	90	Ladder Tread	VBrace	None	6061-T6	Typical
31	M36	N49	N50	90	Ladder Tread	VBrace	None	6061-T6	Typical
32	M38	N51	N52	90	Ladder Tread	VBrace	None	6061-T6	Typical
33	M40	N53	N54	90	Ladder Tread	VBrace	None	6061-T6	Typical
34	M42	N8	N27		L Brace	VBrace	None	6061-T6	Typical
35	M44	N5	N27		L Brace	VBrace	None	6061-T6	Typical
36	M46	N8	N28		L Brace	VBrace	None	6061-T6	Typical
37	M48	N7	N28		L Brace	VBrace	None	6061-T6	Typical
38	M50	N5	N29		L Brace	VBrace	None	6061-T6	Typical
39	M51	N6	N29		L Brace	VBrace	None	6061-T6	Typical
40	M52	N4	N30		L Brace	VBrace	None	6061-T6	Typical
41	M53	N1	N30		L Brace	VBrace	None	6061-T6	Typical
42	M54	N27	N7		L Brace	VBrace	None	6061-T6	Typical
43	M55	N27	N6		L Brace	VBrace	None	6061-T6	Typical
44	M56	N28	N3		L Brace	VBrace	None	6061-T6	Typical
45	M57	N28	N2		L Brace	VBrace	None	6061-T6	Typical
46	M58	N29	N4		L Brace	VBrace	None	6061-T6	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rule
47	M59	N29	N1		L Brace	VBrace	None	6061-T6	Typical
48	M60	N30	N3		L Brace	VBrace	None	6061-T6	Typical
49	M61	N30	N2		L Brace	VBrace	None	6061-T6	Typical

Member Advanced Data

	Label	I Release	J Release	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
1	M1					** NA **	None
2	M2					** NA **	None
3	M3	BenPIN	BenPIN			Default	None
4	M4	BenPIN	BenPIN			Default	None
5	M5	BenPIN	BenPIN			Default	None
6	M6	BenPIN				Default	None
7	M7					Default	None
8	M8					** NA **	None
9	M9					** NA **	None
10	M10		BenPIN			Default	None
11	M11					** NA **	None
12	M12					** NA **	None
13	M28					** NA **	None
14	M30					** NA **	None
15	M31					** NA **	None
16	M33					** NA **	None
17	M35					** NA **	None
18	M37					** NA **	None
19	M39					** NA **	None
20	M41					** NA **	None
21	M43					** NA **	None
22	M45					** NA **	None
23	M47					** NA **	None
24	M49					** NA **	None
25	M25		BenPIN			** NA **	None
26	M26		BenPIN			** NA **	None
27	M27					** NA **	None
28	M29					** NA **	None
29	M32					** NA **	None
30	M34					** NA **	None
31	M36					** NA **	None
32	M38					** NA **	None
33	M40					** NA **	None
34	M42	BenPIN				** NA **	None
35	M44	BenPIN				** NA **	None
36	M46	BenPIN				** NA **	None
37	M48	BenPIN				** NA **	None
38	M50	BenPIN				** NA **	None
39	M51	BenPIN				** NA **	None
40	M52	BenPIN				** NA **	None
41	M53	BenPIN				** NA **	None
42	M54		BenPIN			** NA **	None
43	M55		BenPIN			** NA **	None
44	M56		BenPIN			** NA **	None
45	M57		BenPIN			** NA **	None
46	M58		BenPIN			** NA **	None
47	M59		BenPIN			** NA **	None
48	M60		BenPIN			** NA **	None
49	M61		BenPIN			** NA **	None

Aluminum Design Parameters

	Label	Shape	Length [ft]	Lb y-y [ft]	Lcomp top [ft]	Lcomp bot [ft]	Function
1	M1	Post	7		Lbyy		Lateral
2	M2	Post	7		Lbyy		Lateral
3	M3	Landing Edge Bm	4.25	1	Lbyy	Lbyy	Lateral
4	M4	Landing Edge Bm	4.25	1	Lbyy	Lbyy	Lateral
5	M5	Landing Edge Bm	4.25		Lbyy		Lateral
6	M6	Landing Edge Bm	0.5		Lbyy		Lateral
7	M7	Landing Edge Bm	2		Lbyy		Lateral
8	M8	Post	7		Lbyy		Lateral
9	M9	Post	7		Lbyy		Lateral
10	M10	Landing Edge Bm	1.75		Lbyy		Lateral
11	M11	Ladder	1.04		Lbyy		Lateral
12	M12	Ladder	1.04		Lbyy		Lateral
13	M28	Ladder	1.04		Lbyy		Lateral
14	M30	Ladder	1.04		Lbyy		Lateral
15	M31	Ladder	1.04		Lbyy		Lateral
16	M33	Ladder	1.04		Lbyy		Lateral
17	M35	Ladder	1.04		Lbyy		Lateral
18	M37	Ladder	1.04		Lbyy		Lateral
19	M39	Ladder	1.04		Lbyy		Lateral
20	M41	Ladder	1.04		Lbyy		Lateral
21	M43	Ladder	1.04		Lbyy		Lateral
22	M45	Ladder	1.04		Lbyy		Lateral
23	M47	Ladder	1.04		Lbyy		Lateral
24	M49	Ladder	1.04		Lbyy		Lateral
25	M25	Ladder	0.75		Lbyy		Lateral
26	M26	Ladder	0.75		Lbyy		Lateral
27	M27	Ladder Tread	2		Lbyy		Lateral
28	M29	Ladder Tread	2		Lbyy		Lateral
29	M32	Ladder Tread	2		Lbyy		Lateral
30	M34	Ladder Tread	2		Lbyy		Lateral
31	M36	Ladder Tread	2		Lbyy		Lateral
32	M38	Ladder Tread	2		Lbyy		Lateral
33	M40	Ladder Tread	2		Lbyy		Lateral
34	M42	L Brace	4.095		Lbyy		Lateral
35	M44	L Brace	4.095		Lbyy		Lateral
36	M46	L Brace	4.095		Lbyy		Lateral
37	M48	L Brace	4.095		Lbyy		Lateral
38	M50	L Brace	4.095		Lbyy		Lateral
39	M51	L Brace	4.095		Lbyy		Lateral
40	M52	L Brace	4.095		Lbyy		Lateral
41	M53	L Brace	4.095		Lbyy		Lateral
42	M54	L Brace	4.095		Lbyy		Lateral
43	M55	L Brace	4.095		Lbyy		Lateral
44	M56	L Brace	4.095		Lbyy		Lateral
45	M57	L Brace	4.095		Lbyy		Lateral
46	M58	L Brace	4.095		Lbyy		Lateral
47	M59	L Brace	4.095		Lbyy		Lateral
48	M60	L Brace	4.095		Lbyy		Lateral
49	M61	L Brace	4.095		Lbyy		Lateral

Plate Primary Data

	Label	A Node	B Node	C Node	D Node	Material	Thickness [in]
1	P1	N6	N1	N2	N7	gen_Steel	0.03

Plate Advanced Data

	Label	Plane Stress	Rotate
1	P1		0

Member Distributed Loads (BLC 1 : Dead)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M4	Y	-25	-25	0	%100
2	M3	Y	-25	-25	0	%100
3	M5	Y	-25	-25	0	%100
4	M10	Y	-25	-25	0	%100
5	M6	Y	-25	-25	0	%100
6	M25	Y	-25	-25	0	%100
7	M11	Y	-25	-25	0	%100
8	M28	Y	-25	-25	0	%100
9	M31	Y	-25	-25	0	%100
10	M35	Y	-25	-25	0	%100
11	M39	Y	-25	-25	0	%100
12	M43	Y	-25	-25	0	%100
13	M47	Y	-25	-25	0	%100
14	M26	Y	-25	-25	0	%100
15	M12	Y	-25	-25	0	%100
16	M30	Y	-25	-25	0	%100
17	M33	Y	-25	-25	0	%100
18	M37	Y	-25	-25	0	%100
19	M41	Y	-25	-25	0	%100
20	M45	Y	-25	-25	0	%100
21	M49	Y	-25	-25	0	%100

Member Distributed Loads (BLC 4 : Wind)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M5	X	20	20	0	%100
2	M10	X	20	20	0	%100
3	M7	X	20	20	0	%100
4	M6	X	20	20	0	%100

Member Distributed Loads (BLC 6 : BLC 1 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M3	Y	-21.557	-21.557	2.193e-15	4.25
2	M4	Y	-20.943	-20.943	4.441e-16	4.25
3	M11	Y	-10	-10	1.138e-15	1.04
4	M12	Y	-10	-10	8.049e-16	1.04
5	M28	Y	-10	-10	9.437e-16	1.04
6	M30	Y	-10	-10	1.554e-15	1.04
7	M31	Y	-10	-10	8.604e-16	1.04
8	M33	Y	-10	-10	6.939e-16	1.04
9	M35	Y	-10	-10	5.274e-16	1.04
10	M37	Y	-10	-10	0	1.04
11	M39	Y	-10	-10	3.886e-16	1.04
12	M41	Y	-10	-10	3.053e-16	1.04
13	M43	Y	-10	-10	6.106e-16	1.04
14	M45	Y	-10	-10	8.327e-17	1.04
15	M47	Y	-10	-10	4.718e-16	1.04
16	M49	Y	-10	-10	0	1.04

Member Distributed Loads (BLC 6 : BLC 1 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
17	M7	Y	-7.5	-7.5	1.388e-16	2

Member Distributed Loads (BLC 7 : BLC 2 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M3	Y	-215.575	-215.575	2.193e-15	4.25
2	M4	Y	-209.425	-209.425	4.441e-16	4.25
3	M11	Y	-100	-100	1.138e-15	1.04
4	M12	Y	-100	-100	8.049e-16	1.04
5	M28	Y	-100	-100	9.437e-16	1.04
6	M30	Y	-100	-100	1.554e-15	1.04
7	M31	Y	-100	-100	8.604e-16	1.04
8	M33	Y	-100	-100	6.939e-16	1.04
9	M35	Y	-100	-100	5.274e-16	1.04
10	M37	Y	-100	-100	0	1.04
11	M39	Y	-100	-100	3.886e-16	1.04
12	M41	Y	-100	-100	3.053e-16	1.04
13	M43	Y	-100	-100	6.106e-16	1.04
14	M45	Y	-100	-100	8.327e-17	1.04
15	M47	Y	-100	-100	4.718e-16	1.04
16	M49	Y	-100	-100	0	1.04
17	M7	Y	-75	-75	1.388e-16	2

Member Distributed Loads (BLC 8 : BLC 3 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M12	Y	-25	-25	8.049e-16	1.04
2	M28	Y	-25	-25	9.437e-16	1.04
3	M30	Y	-25	-25	1.554e-15	1.04
4	M31	Y	-25	-25	8.604e-16	1.04
5	M33	Y	-25	-25	6.939e-16	1.04
6	M35	Y	-25	-25	5.274e-16	1.04
7	M37	Y	-25	-25	0	1.04
8	M39	Y	-25	-25	3.886e-16	1.04
9	M41	Y	-25	-25	3.053e-16	1.04
10	M43	Y	-25	-25	6.106e-16	1.04
11	M45	Y	-25	-25	8.327e-17	1.04
12	M47	Y	-25	-25	4.718e-16	1.04
13	M49	Y	-25	-25	0	1.04
14	M7	Y	-18.75	-18.75	1.388e-16	2
15	M3	Y	-53.894	-53.894	2.193e-15	4.25
16	M4	Y	-52.356	-52.356	4.441e-16	4.25
17	M11	Y	-25	-25	1.138e-15	1.04

Member Distributed Loads (BLC 9 : BLC 5 Transient Area Loads)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M3	X	21.557	21.557	2.193e-15	4.25
2	M4	X	20.943	20.943	4.441e-16	4.25

Member Area Loads (BLC 1 : Dead)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N6	N1	N2	N7	Y	A-B	-10	-10	-10	-10	Yes
2	N15	N11	N12	N16	Y	A-B	-10	-10	-10	-10	Yes
3	N11	N9	N10	N12	Y	A-B	-10	-10	-10	-10	Yes

Member Area Loads (BLC 2 : Live)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N6	N1	N2	N7	Y	A-B	-100	-100	-100	-100	Yes
2	N15	N11	N12	N16	Y	A-B	-100	-100	-100	-100	Yes
3	N11	N9	N10	N12	Y	A-B	-100	-100	-100	-100	Yes

Member Area Loads (BLC 3 : Snow)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N6	N1	N2	N7	Y	A-B	-25	-25	-25	-25	Yes
2	N15	N11	N12	N16	Y	A-B	-25	-25	-25	-25	Yes
3	N11	N9	N10	N12	Y	A-B	-25	-25	-25	-25	Yes

Member Area Loads (BLC 5 : Seismic)

	Node A	Node B	Node C	Node D	Direction	Load Direction	A Magnitude [psf]	B Magnitude [psf]	C Magnitude [psf]	D Magnitude [psf]	Exclude Braces
1	N6	N1	N2	N7	X	A-B	10	10	10	10	Yes

Basic Load Cases

	BLC Description	Category	Y Gravity	Distributed	Area(Member)
1	Dead	DL	-1	21	3
2	Live	LL			3
3	Snow	SL			3
4	Wind	WL		4	
5	Seismic	EL			1
6	BLC 1 Transient Area Loads	None		17	
7	BLC 2 Transient Area Loads	None		17	
8	BLC 3 Transient Area Loads	None		17	
9	BLC 5 Transient Area Loads	None		2	

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	Deflection 1	Yes	C	DL	1										
2	Deflection 2	Yes	C	LL	1										
3	Deflection 3	Yes	C	DL	1	LL	1								
4	IBC 21/ASCE ASD 1	Yes	C	DL	1										
5	IBC 21/ASCE ASD 2	Yes	C	DL	1	LL	1	LLS	1						
6	IBC 21/ASCE ASD 3 (b)	Yes	C	DL	1	SL	1	SLN	1						
7	IBC 21/ASCE ASD 4 (b)	Yes	C	DL	1	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75		
8	IBC 21/ASCE ASD 5 (a) (a)	Yes	C	DL	1	WL	0.6								
9	IBC 21/ASCE ASD 5 (a) (b)	Yes	C	DL	1	WL	-0.6								
10	IBC 21/ASCE ASD 6 (a) (a)	Yes	C	DL	1	WL	0.45	LL	0.75	LLS	0.75				
11	IBC 21/ASCE ASD 6 (a) (b)	Yes	C	DL	1	WL	-0.45	LL	0.75	LLS	0.75				
12	IBC 21/ASCE ASD 6 (b) (a)	Yes	C	DL	1	WL	0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
13	IBC 21/ASCE ASD 6 (b) (b)	Yes	C	DL	1	WL	-0.45	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
14	IBC 21/ASCE ASD 7 (a)	Yes	C	DL	0.6	WL	0.6								

Load Combinations (Continued)

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
15	IBC 21/ASCE ASD 7 (b)	Yes	C	DL	0.6	WL	-0.6								
16	IBC 21/ASCE ASD 8 (a)	Yes	C	DL	1	EL	0.7								
17	IBC 21/ASCE ASD 8 (b)	Yes	C	DL	1	EL	-0.7								
18	IBC 21/ASCE ASD 9 (a)	Yes	C	DL	1	EL	0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
19	IBC 21/ASCE ASD 9 (b)	Yes	C	DL	1	EL	-0.525	LL	0.75	LLS	0.75	SL	0.75	SLN	0.75
20	IBC 21/ASCE ASD 10 (a)	Yes	C	DL	0.6	EL	0.7								
21	IBC 21/ASCE ASD 10 (b)	Yes	C	DL	0.6	EL	-0.7								

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N3	max	3.822	21	1151.742	18	143.862	18	0	21	0	21	0	21
2		min	-179.957	18	76.499	21	9.378	21	0	1	0	1	0	1
3	N4	max	175.841	19	743.536	19	118.372	19	0	21	0	21	0	21
4		min	-5.564	20	17.831	20	8.076	20	0	1	0	1	0	1
5	N5	max	148.947	19	640.601	19	-1.956	20	0	21	0	21	0	21
6		min	-9.351	20	2.716	20	-78.491	19	0	1	0	1	0	1
7	N8	max	11.087	21	1088.121	18	-27.523	15	0	21	0	21	0	21
8		min	-144.801	18	67.743	21	-253.211	3	0	1	0	1	0	1
9	N15	max	0	21	573.023	5	35.762	12	0	21	0	21	0	21
10		min	0	1	90.842	14	3.338	15	0	1	0	1	0	1
11	N16	max	0	21	701.409	5	36.019	12	0	21	0	21	0	21
12		min	0	1	114.182	15	3.545	15	0	1	0	1	0	1
13	Totals:	max	126.437	21	4742.308	5	0	13						
14		min	-126.438	16	798.022	15	0	14						

Envelope Node Displacements

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
1	N1	max	0.005	18	0	20	0	20	1.384e-6	12	-1.254e-6	20	2.656e-6	21
2		min	-0.002	21	-0.003	19	-0.001	3	-3.526e-7	15	-2.461e-5	19	-8.684e-5	18
3	N2	max	0.005	18	-0.001	21	0.001	12	-5.442e-6	15	1.835e-7	20	2.18e-6	21
4		min	-0.002	21	-0.007	3	0	15	-4.248e-5	3	-1.657e-5	19	-8.969e-5	18
5	N3	max	0	18	0	21	0	21	3.614e-5	12	6.439e-8	20	2.635e-5	21
6		min	0	21	0	18	0	18	3.557e-6	15	-1.687e-5	19	-4.562e-5	18
7	N4	max	0	20	0	20	0	20	-2.304e-6	15	-1.188e-6	20	2.685e-5	21
8		min	0	19	0	19	0	19	-1.74e-5	3	-2.408e-5	19	-4.262e-5	18
9	N5	max	0	20	0	20	0	19	-1.966e-6	15	-6.37e-7	15	3.019e-5	21
10		min	0	19	0	19	0	20	-1.694e-5	3	-2.318e-5	12	-3.146e-5	16
11	N6	max	0.003	18	0	20	0	15	1.946e-6	12	-6.64e-7	15	9.112e-6	21
12		min	-0.002	21	-0.003	19	-0.001	3	6.594e-8	15	-2.354e-5	12	-4.718e-5	18
13	N7	max	0.003	18	0	21	0.001	12	-5.267e-6	15	2.967e-7	15	8.967e-6	21
14		min	-0.002	21	-0.005	18	0	15	-3.953e-5	3	-1.564e-5	12	-4.818e-5	18
15	N8	max	0	18	0	21	0	5	3.944e-5	12	2.994e-7	15	3.007e-5	21
16		min	0	21	0	18	0	15	3.813e-6	15	-1.519e-5	12	-3.167e-5	16
17	N9	max	0.014	14	-0.023	14	0.001	12	-4.4e-4	14	6.054e-4	13	6.172e-6	21
18		min	-0.062	13	-0.143	3	0	15	-2.808e-3	3	-3.388e-4	14	-6.528e-5	18
19	N10	max	0.009	14	-0.011	21	0.001	12	8.746e-3	5	9.436e-4	14	2.979e-6	21
20		min	-0.015	13	-0.065	3	0	15	1.426e-3	14	-2.995e-3	13	-8.481e-5	18
21	N11	max	0.014	14	-0.021	14	0.022	13	1.205e-3	13	1.926e-4	14	9.584e-4	5
22		min	-0.062	13	-0.137	3	0	14	5.461e-5	14	-2.024e-3	13	1.955e-4	15
23	N12	max	0.009	14	-0.017	15	0.022	13	1.354e-3	13	1.9e-4	14	-4.892e-4	15
24		min	-0.015	13	-0.103	3	0	14	8.452e-5	14	-2.035e-3	13	-3.418e-3	3
25	N15	max	0.426	5	0	14	0	15	-1.139e-4	15	2.854e-3	5	9.46e-3	5
26		min	0.06	15	0	3	0	12	-1.624e-3	12	3.927e-4	15	1.441e-3	14

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
27	N16	max	0.351	5	0	15	0	15	-1.153e-4	15	2.85e-3	5	9.559e-3	5
28		min	0.047	15	0	3	0	12	-1.626e-3	12	3.903e-4	15	1.528e-3	15
29	N43	max	0.017	14	-0.02	14	0.017	13	6.397e-4	13	5.951e-4	8	1.966e-3	5
30		min	-0.047	13	-0.132	3	-0.001	14	-7.862e-5	14	-5.038e-4	15	3.521e-4	14
31	N44	max	0.003	14	-0.018	15	0.017	13	6.194e-4	13	5.934e-4	8	-1.533e-4	15
32		min	-0.042	13	-0.111	3	-0.001	14	-7.991e-5	14	-5.049e-4	15	-1.208e-3	3
33	N45	max	0.023	8	-0.019	14	0.012	13	2.352e-4	13	1.828e-3	12	3.386e-3	5
34		min	-0.021	15	-0.123	3	-0.001	14	-1.528e-4	14	-2.481e-4	15	5.442e-4	14
35	N46	max	0.003	14	-0.018	15	0.012	13	2.455e-4	13	1.827e-3	12	1.215e-3	5
36		min	-0.041	13	-0.112	3	-0.001	14	-1.485e-4	14	-2.488e-4	15	2.112e-4	21
37	N47	max	0.064	12	-0.017	14	0.008	13	1.301e-4	15	2.614e-3	12	5.015e-3	5
38		min	-0.011	15	-0.109	3	-0.002	14	-2.572e-4	12	-3.694e-5	15	7.776e-4	14
39	N48	max	0.009	14	-0.017	15	0.008	13	1.335e-4	15	2.613e-3	12	3.658e-3	5
40		min	-0.013	13	-0.103	3	-0.002	14	-2.521e-4	12	-3.772e-5	15	6.034e-4	15
41	N49	max	0.13	12	-0.014	14	0.004	13	7.896e-5	15	3.033e-3	12	6.646e-3	5
42		min	0.002	15	-0.088	3	-0.002	14	-3.855e-4	12	1.389e-4	15	1.018e-3	14
43	N50	max	0.057	12	-0.014	15	0.004	13	8.253e-5	15	3.031e-3	12	5.92e-3	5
44		min	-0.001	15	-0.087	3	-0.002	14	-3.795e-4	12	1.381e-4	15	9.582e-4	15
45	N51	max	0.214	12	-0.01	14	0.001	15	3.433e-5	15	3.174e-3	12	8.071e-3	5
46		min	0.019	15	-0.063	3	-0.003	12	-4.467e-4	12	2.886e-4	15	1.231e-3	14
47	N52	max	0.137	12	-0.01	15	0.001	15	3.767e-5	15	3.173e-3	12	7.799e-3	5
48		min	0.012	15	-0.063	3	-0.003	12	-4.412e-4	12	2.878e-4	15	1.253e-3	15
49	N53	max	0.314	5	-0.005	14	0	15	-1.738e-5	15	3.147e-3	5	9.078e-3	5
50		min	0.039	15	-0.033	3	-0.005	12	-5.786e-4	12	4.203e-4	15	1.383e-3	14
51	N54	max	0.237	5	-0.005	15	0	15	-1.282e-5	15	3.146e-3	5	9.083e-3	5
52		min	0.029	15	-0.033	3	-0.005	12	-5.71e-4	12	4.196e-4	15	1.454e-3	15
53	N27	max	0.001	20	0	14	0.001	18	1.524e-6	12	-5.401e-6	15	1.811e-5	21
54		min	-0.001	17	-0.002	3	0	21	-2.508e-7	15	-4.206e-5	3	-3.298e-5	18
55	N28	max	0.002	18	0	21	0.001	12	3.266e-6	12	-1.986e-6	15	1.868e-5	21
56		min	-0.001	21	-0.003	3	0	15	-2.374e-7	15	-2.038e-5	12	-7.051e-5	18
57	N29	max	0.002	18	0	20	0	15	-1.094e-6	15	-1.823e-6	15	1.784e-5	21
58		min	-0.001	21	-0.001	19	0	3	-7.832e-6	3	-1.897e-5	12	-5.513e-5	18
59	N30	max	0.001	16	0	15	0	8	1.728e-5	5	-1.975e-6	15	1.394e-5	21
60		min	-0.001	21	-0.002	3	0	15	2.312e-6	15	-1.802e-5	12	-5.469e-5	18

Envelope Member Section Forces

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1	M1	1	max	618.24	5	0.01	20	-0.011	15	0	21	0.001	19	0	21
2			min	65.144	21	-0.087	19	-0.099	3	-0.001	18	0	20	-0.001	3
3		2	max	616.27	5	0.01	20	-0.011	15	0	21	-0.02	15	0.151	19
4			min	63.962	21	-0.087	19	-0.099	3	-0.001	18	-0.172	3	-0.018	20
5		3	max	614.3	5	0.01	20	-0.011	15	0	21	-0.04	15	0.303	19
6			min	62.78	21	-0.087	19	-0.099	3	-0.001	18	-0.345	3	-0.037	20
7		4	max	612.33	5	0.01	20	-0.011	15	0	21	-0.06	15	0.455	19
8			min	61.598	21	-0.087	19	-0.099	3	-0.001	18	-0.518	3	-0.055	20
9		5	max	610.361	5	0.01	20	-0.011	15	0	21	-0.08	15	0.607	19
10			min	60.416	21	-0.087	19	-0.099	3	-0.001	18	-0.691	3	-0.073	20
11	M2	1	max	433.495	18	0.015	20	-0.011	15	0.001	12	0	14	0	14
12			min	35.812	21	-0.053	19	-0.099	3	0	15	0	13	-0.001	3
13		2	max	431.525	18	0.015	20	-0.011	15	0.001	12	-0.02	15	0.092	19
14			min	34.63	21	-0.053	19	-0.099	3	0	15	-0.174	3	-0.027	20
15		3	max	429.556	18	0.015	20	-0.011	15	0.001	12	-0.04	15	0.186	19
16			min	33.449	21	-0.053	19	-0.099	3	0	15	-0.347	3	-0.054	20
17		4	max	427.586	18	0.015	20	-0.011	15	0.001	12	-0.06	15	0.279	19
18			min	32.267	21	-0.053	19	-0.099	3	0	15	-0.52	3	-0.081	20

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
19		5	max	425.616	18	0.015	20	-0.011	15	0.001	12	-0.08	15	0.373	19
20			min	31.085	21	-0.053	19	-0.099	3	0	15	-0.694	3	-0.107	20
21	M3	1	max	29.528	20	0	21	560.697	5	0.008	5	0	21	0	21
22			min	-41.355	19	0	1	61.56	14	0.001	15	0	1	0	1
23		2	max	13.494	20	0	21	280.349	5	0.008	5	446.805	5	0	21
24			min	-29.33	19	0	1	30.78	14	0.001	15	49.056	14	0	1
25		3	max	-1.465	14	0	21	0	21	0.008	5	595.741	5	0	21
26			min	-18.171	3	0	1	0	1	0.001	15	65.408	14	0	1
27		4	max	13.493	21	0	21	-30.78	21	0.008	5	446.805	5	0	21
28			min	-29.328	18	0	1	-280.349	3	0.001	15	49.056	14	0	1
29		5	max	29.526	21	0	21	-61.56	21	0.008	5	0	21	0	21
30			min	-41.353	18	0	1	-560.697	3	0.001	15	0	1	0	1
31	M4	1	max	21.746	21	0	21	546.322	5	0.008	5	0	21	0	21
32			min	-79.241	18	0	1	60.776	14	0.001	15	0	1	0	1
33		2	max	6.17	21	0	21	273.161	5	0.008	5	435.35	5	0	21
34			min	-67.559	18	0	1	30.388	14	0.001	15	48.431	14	0	1
35		3	max	-8.276	15	0	21	0	21	0.008	5	580.467	5	0	21
36			min	-58.565	3	0	1	0	1	0.001	15	64.575	14	0	1
37		4	max	6.163	20	0	21	-30.388	21	0.008	5	435.35	5	0	21
38			min	-67.549	19	0	1	-273.161	3	0.001	15	48.431	14	0	1
39		5	max	21.739	20	0	21	-60.776	21	0.008	5	0	21	0	21
40			min	-79.231	19	0	1	-546.322	3	0.001	15	0	1	0	1
41	M5	1	max	3.775	20	25.5	14	56.791	19	-0.001	15	0	21	0	21
42			min	-16.396	19	-25.5	9	0	2	-0.008	3	0	1	0	1
43		2	max	3.775	20	12.75	14	28.395	19	-0.001	15	45.255	19	20.32	15
44			min	-16.396	19	-12.75	9	0	2	-0.008	3	0	2	-20.32	8
45		3	max	3.775	20	0	21	0	21	-0.001	15	60.34	19	27.094	15
46			min	-16.396	19	0	1	0	1	-0.008	3	0	2	-27.094	8
47		4	max	3.775	20	12.75	15	0	2	-0.001	15	45.255	19	20.32	15
48			min	-16.396	19	-12.75	8	-28.395	1	-0.008	3	0	2	-20.32	8
49		5	max	3.775	20	25.5	15	0	2	-0.001	15	0	21	0	21
50			min	-16.396	19	-25.5	8	-56.791	1	-0.008	3	0	1	0	1
51	M6	1	max	-8.615	15	21.047	15	724.198	5	-0.001	15	0	21	0	21
52			min	-107.515	12	-65.629	12	122.674	15	-0.008	3	0	1	0	1
53		2	max	-8.615	15	19.547	15	720.858	5	-0.001	15	90.316	5	8.133	12
54			min	-107.515	12	-64.504	12	120.67	15	-0.008	3	15.209	15	-2.537	15
55		3	max	-8.615	15	18.047	15	717.517	5	-0.001	15	180.214	5	16.126	12
56			min	-107.515	12	-63.379	12	118.665	15	-0.008	3	30.167	15	-4.887	15
57		4	max	-8.615	15	16.547	15	714.176	5	-0.001	15	269.695	5	23.978	12
58			min	-107.515	12	-62.254	12	116.661	15	-0.008	3	44.875	15	-7.049	15
59		5	max	-8.615	15	15.047	15	710.836	5	-0.001	15	358.758	5	31.689	12
60			min	-107.515	12	-61.129	12	114.657	15	-0.008	3	59.333	15	-9.024	15
61	M7	1	max	-4.512	21	60.505	13	138.464	5	-0.001	15	350.658	5	31.689	12
62			min	-71.747	18	-5.829	14	8.658	14	-0.008	3	57.989	15	-9.024	15
63		2	max	-4.512	21	56.005	13	97.61	13	-0.001	15	409.362	5	18.74	14
64			min	-71.747	18	0.171	14	5.89	14	-0.008	3	68.58	14	-20.126	9
65		3	max	-4.512	21	51.505	13	57.842	13	-0.001	15	447.01	5	17.155	14
66			min	-71.747	18	6.171	14	3.123	14	-0.008	3	70.833	14	-44.052	13
67		4	max	-4.512	21	51.355	5	21.52	9	-0.001	15	463.602	5	12.569	14
68			min	-71.747	18	6.51	15	-1.946	2	-0.008	3	71.703	14	-68.679	13
69		5	max	-4.512	21	55.692	12	16.907	9	-0.001	15	459.137	5	4.984	14
70			min	-71.747	18	0.51	15	-39.446	2	-0.008	3	71.189	14	-91.057	13
71	M8	1	max	255.853	19	0.01	20	0.024	5	0.002	5	0	20	0	14
72			min	11.701	20	-0.087	19	0.003	15	0	20	-0.001	19	0	13
73		2	max	253.884	19	0.01	20	0.024	5	0.002	5	0.04	5	0.152	19

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
74			min	10.519	20	-0.087	19	0.003	15	0	20	0.004	15	-0.018	20
75		3	max	251.914	19	0.01	20	0.024	5	0.002	5	0.082	5	0.304	19
76			min	9.337	20	-0.087	19	0.003	15	0	20	0.009	15	-0.037	20
77		4	max	249.944	19	0.01	20	0.024	5	0.002	5	0.123	5	0.455	19
78			min	8.156	20	-0.087	19	0.003	15	0	20	0.013	15	-0.055	20
79		5	max	247.974	19	0.01	20	0.024	5	0.002	5	0.165	5	0.607	19
80			min	6.974	20	-0.087	19	0.003	15	0	20	0.018	15	-0.073	20
81	M9	1	max	262.566	19	0.015	20	0.024	5	0.001	12	0.001	13	0	20
82			min	12.814	20	-0.053	19	0.003	15	0	15	0	14	-0.001	19
83		2	max	260.597	19	0.015	20	0.024	5	0.001	12	0.042	5	0.092	19
84			min	11.632	20	-0.053	19	0.003	15	0	15	0.005	15	-0.027	20
85		3	max	258.627	19	0.015	20	0.024	5	0.001	12	0.083	5	0.185	19
86			min	10.45	20	-0.053	19	0.003	15	0	15	0.009	15	-0.054	20
87		4	max	256.657	19	0.015	20	0.024	5	0.001	12	0.124	5	0.278	19
88			min	9.268	20	-0.053	19	0.003	15	0	15	0.013	15	-0.081	20
89		5	max	254.687	19	0.015	20	0.024	5	0.001	12	0.166	5	0.371	19
90			min	8.087	20	-0.053	19	0.003	15	0	15	0.018	15	-0.108	20
91	M10	1	max	1.927	21	-7.652	14	-26.956	14	-0.001	15	463.431	5	4.984	14
92			min	-38.466	18	-45.649	3	-241.433	3	-0.008	3	71.726	14	-91.057	13
93		2	max	1.927	21	-2.402	14	-33.971	14	-0.001	15	355.246	5	7.183	14
94			min	-38.466	18	-48.095	13	-253.125	3	-0.008	3	58.399	14	-70.877	13
95		3	max	1.927	21	2.848	14	-40.987	14	-0.001	15	241.946	5	7.086	14
96			min	-38.466	18	-52.032	13	-264.818	3	-0.008	3	42.002	14	-48.974	13
97		4	max	1.927	21	8.098	14	-48.002	14	-0.001	15	123.531	5	4.691	14
98			min	-38.466	18	-55.97	13	-276.51	3	-0.008	3	22.535	14	-25.348	13
99		5	max	1.927	21	13.348	14	-55.017	14	-0.001	15	0	21	0	21
100			min	-38.466	18	-59.907	13	-288.202	3	-0.008	3	0	1	0	1
101	M11	1	max	-10.89	14	120.861	5	-2.135	15	1.567	5	17.085	12	-14.103	14
102			min	-183.751	13	18.127	15	-30.543	12	0.255	15	1.075	15	-153.496	13
103		2	max	-5.357	14	111.084	5	-2.135	15	1.567	5	9.144	12	-19.457	14
104			min	-151.092	13	16.546	15	-30.543	12	0.255	15	0.52	15	-182.249	3
105		3	max	0.176	14	101.306	5	-2.135	15	1.567	5	1.203	12	-24.399	14
106			min	-118.434	13	14.965	15	-30.543	12	0.255	15	-0.036	15	-209.86	3
107		4	max	5.708	14	91.529	5	-2.135	15	1.567	5	-0.591	15	-28.93	14
108			min	-85.775	13	13.384	15	-30.543	12	0.255	15	-6.738	12	-234.929	3
109		5	max	11.241	14	81.751	5	-2.135	15	1.567	5	-1.146	15	-33.05	14
110			min	-53.117	13	11.804	15	-30.543	12	0.255	15	-14.68	12	-257.455	3
111	M12	1	max	-74.259	15	-11.135	14	41.238	12	1.612	5	-3	15	420.566	5
112			min	-529.61	3	-82.416	3	4.747	15	0.264	15	-25.369	12	63.029	15
113		2	max	-68.727	15	-9.554	14	41.238	12	1.612	5	-1.766	15	440.724	5
114			min	-495.389	3	-72.639	3	4.747	15	0.264	15	-14.647	12	66.564	15
115		3	max	-63.194	15	-7.973	14	41.238	12	1.612	5	-0.532	15	458.339	5
116			min	-461.168	3	-62.862	3	4.747	15	0.264	15	-3.952	3	69.689	15
117		4	max	-57.662	15	-6.392	14	41.238	12	1.612	5	6.797	12	473.412	5
118			min	-426.947	3	-53.084	3	4.747	15	0.264	15	0.702	15	72.403	15
119		5	max	-52.129	15	-4.812	14	41.238	12	1.612	5	17.519	12	485.943	5
120			min	-392.726	3	-43.307	3	4.747	15	0.264	15	1.937	15	74.706	15
121	M28	1	max	3.04	14	80.753	5	-3.326	15	1.082	5	19.609	12	-33.205	14
122			min	-82.331	13	11.461	15	-36.267	12	0.184	14	1.831	15	-258.29	3
123		2	max	8.572	14	70.976	5	-3.326	15	1.082	5	10.179	12	-36.8	14
124			min	-49.673	13	9.88	15	-36.267	12	0.184	14	0.966	15	-278.015	3
125		3	max	15.739	8	61.198	5	-3.326	15	1.082	5	0.754	5	-39.984	14
126			min	-17.014	13	8.299	15	-36.267	12	0.184	14	0.101	15	-295.198	3
127		4	max	32.824	12	51.421	5	-3.326	15	1.082	5	-0.764	15	-42.758	14
128			min	-3.173	15	6.718	15	-36.267	12	0.184	14	-8.68	12	-309.839	3

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
129		5	max	65.482	12	41.643	5	-3.326	15	1.082	5	-1.628	15	-45.12	14
130			min	2.359	15	5.138	15	-36.267	12	0.184	14	-18.109	12	-321.937	3
131	M30	1	max	-47.725	15	-4.655	14	35.514	12	1.077	5	-1.845	15	485.108	5
132			min	-356.409	3	-43.329	3	3.557	15	0.183	14	-18.71	12	74.557	15
133		2	max	-42.192	15	-3.074	14	35.514	12	1.077	5	-0.921	15	495.103	5
134			min	-322.188	3	-33.552	3	3.557	15	0.183	14	-9.476	12	76.386	15
135		3	max	-36.66	15	-1.493	14	35.514	12	1.077	5	0.004	15	502.555	5
136			min	-287.967	3	-23.774	3	3.557	15	0.183	14	-0.242	12	77.804	15
137		4	max	-31.127	15	0.088	14	35.514	12	1.077	5	8.991	12	507.466	5
138			min	-253.746	3	-14.401	13	3.557	15	0.183	14	0.929	15	78.81	15
139		5	max	-25.595	15	1.668	14	35.514	12	1.077	5	18.225	12	509.834	5
140			min	-219.525	3	-5.07	13	3.557	15	0.183	14	1.854	15	79.406	15
141	M31	1	max	30.184	12	40.164	5	-3.114	15	0.708	13	18.464	12	-45.205	14
142			min	-0.165	15	4.793	15	-35.227	12	0.084	14	1.629	15	-322.508	3
143		2	max	62.842	12	30.387	5	-3.114	15	0.708	13	9.304	12	-47.049	14
144			min	5.368	15	3.213	15	-35.227	12	0.084	14	0.819	15	-331.68	3
145		3	max	95.501	12	20.715	12	-3.114	15	0.708	13	0.145	12	-48.483	14
146			min	10.9	15	1.632	15	-35.227	12	0.084	14	0.01	15	-338.31	3
147		4	max	128.159	12	11.384	12	-3.114	15	0.708	13	-0.8	15	-49.505	14
148			min	16.433	15	0.051	15	-35.227	12	0.084	14	-9.014	12	-342.397	3
149		5	max	161.274	5	2.053	12	-3.114	15	0.708	13	-1.609	15	-50.117	14
150			min	21.966	15	-1.53	15	-35.227	12	0.084	14	-18.173	12	-343.942	3
151	M33	1	max	-21.021	15	2.011	8	36.51	12	0.709	13	-1.987	15	509.263	5
152			min	-181.494	3	-4.913	13	3.767	15	0.084	14	-19.217	12	79.284	15
153		2	max	-15.489	15	6.71	12	36.51	12	0.709	13	-1.007	15	509.058	5
154			min	-147.273	3	0.335	15	3.767	15	0.084	14	-9.725	12	79.402	15
155		3	max	-9.956	15	16.041	12	36.51	12	0.709	13	-0.028	15	506.311	5
156			min	-113.963	12	1.916	15	3.767	15	0.084	14	-0.232	12	79.109	15
157		4	max	-4.424	15	25.372	12	36.51	12	0.709	13	9.261	12	501.023	5
158			min	-81.305	12	3.497	15	3.767	15	0.084	14	0.952	15	78.406	15
159		5	max	1.109	15	35.008	5	36.51	12	0.709	13	18.753	12	493.191	5
160			min	-48.646	12	5.078	15	3.767	15	0.084	14	1.931	15	77.291	15
161	M35	1	max	126.442	5	1.161	14	-3.146	15	0.447	13	18.534	12	-50.145	14
162			min	19.419	15	-2.123	9	-35.366	12	0.006	14	1.651	15	-344.299	3
163		2	max	160.663	5	-0.42	14	-3.146	15	0.447	13	9.338	12	-50.241	14
164			min	24.952	15	-11.365	13	-35.366	12	0.006	14	0.833	15	-342.786	3
165		3	max	194.884	5	-2.001	14	-3.146	15	0.447	13	0.143	12	-49.926	14
166			min	30.484	15	-20.696	13	-35.366	12	0.006	14	0.015	15	-338.731	3
167		4	max	229.105	5	-3.582	14	-3.146	15	0.447	13	-0.803	15	-49.2	14
168			min	36.017	15	-30.262	3	-35.366	12	0.006	14	-9.052	12	-332.134	3
169		5	max	263.326	5	-5.162	14	-3.146	15	0.447	13	-1.621	15	-48.064	14
170			min	41.549	15	-40.04	3	-35.366	12	0.006	14	-18.247	12	-322.995	3
171	M37	1	max	5.781	9	35.682	5	36.305	12	0.446	13	-1.951	15	492.834	5
172			min	-9.706	12	5.363	15	3.729	15	0.006	14	-19.006	12	77.189	15
173		2	max	30.945	13	45.46	5	36.305	12	0.446	13	-0.981	15	482.286	5
174			min	0.749	14	6.943	15	3.729	15	0.006	14	-9.567	12	75.59	15
175		3	max	63.603	13	55.237	5	36.305	12	0.446	13	-0.012	15	469.195	5
176			min	6.281	14	8.524	15	3.729	15	0.006	14	-0.127	12	73.579	15
177		4	max	96.3	5	65.015	5	36.305	12	0.446	13	9.312	12	453.562	5
178			min	11.814	14	10.105	15	3.729	15	0.006	14	0.958	15	71.157	15
179		5	max	130.521	5	74.792	5	36.305	12	0.446	13	18.752	12	435.387	5
180			min	17.347	14	11.686	15	3.729	15	0.006	14	1.928	15	68.324	15
181	M39	1	max	228.287	5	-5.552	14	-3.143	15	0.252	13	18.698	12	-48.048	14
182			min	38.981	15	-42.441	3	-35.295	12	-0.052	14	1.665	15	-323.186	3
183		2	max	262.508	5	-7.133	14	-3.143	15	0.252	13	9.521	12	-46.399	14

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
184			min	44.514	15	-52.219	3	-35.295	12	-0.052	14	0.848	15	-310.88	3
185		3	max	296.729	5	-8.714	14	-3.143	15	0.252	13	0.345	12	-44.338	14
186			min	50.047	15	-61.996	3	-35.295	12	-0.052	14	0.031	15	-296.032	3
187		4	max	330.95	5	-10.294	14	-3.143	15	0.252	13	-0.786	15	-41.867	14
188			min	55.579	15	-71.774	3	-35.295	12	-0.052	14	-8.832	12	-278.641	3
189		5	max	365.171	5	-11.875	14	-3.143	15	0.252	13	-1.604	15	-38.985	14
190			min	61.112	15	-81.551	3	-35.295	12	-0.052	14	-18.009	12	-258.709	3
191	M41	1	max	168.976	5	77.218	5	36.27	12	0.252	13	-1.972	15	435.196	5
192			min	28.189	14	12.014	15	3.725	15	-0.052	14	-19.214	12	68.239	15
193		2	max	203.197	5	86.996	5	36.27	12	0.252	13	-1.003	15	413.847	5
194			min	33.722	14	13.595	15	3.725	15	-0.052	14	-9.783	12	64.91	15
195		3	max	237.418	5	96.773	5	36.27	12	0.252	13	-0.035	15	389.957	5
196			min	39.254	14	15.176	15	3.725	15	-0.052	14	-0.353	12	61.169	15
197		4	max	271.639	5	106.551	5	36.27	12	0.252	13	9.078	12	363.525	5
198			min	44.787	14	16.756	15	3.725	15	-0.052	14	0.934	15	57.018	15
199		5	max	305.86	5	116.328	5	36.27	12	0.252	13	18.508	12	334.55	5
200			min	50.319	14	18.337	15	3.725	15	-0.052	14	1.902	15	52.456	15
201	M43	1	max	328.356	5	-12.245	14	-3.101	15	0.138	13	20.752	12	-38.938	14
202			min	56.111	14	-84.148	3	-35.226	12	-0.085	14	1.846	15	-258.78	3
203		2	max	362.577	5	-13.825	14	-3.101	15	0.138	13	11.593	12	-35.549	14
204			min	61.644	14	-93.926	3	-35.226	12	-0.085	14	1.04	15	-235.63	3
205		3	max	396.798	5	-15.406	14	-3.101	15	0.138	13	2.434	12	-31.748	14
206			min	67.176	14	-103.703	3	-35.226	12	-0.085	14	0.234	15	-209.938	3
207		4	max	431.019	5	-16.987	14	-3.101	15	0.138	13	-0.572	15	-27.537	14
208			min	72.709	14	-113.48	3	-35.226	12	-0.085	14	-6.725	12	-181.704	3
209		5	max	465.24	5	-18.568	14	-3.101	15	0.138	13	-1.378	15	-22.915	14
210			min	78.241	14	-123.258	3	-35.226	12	-0.085	14	-15.884	12	-150.928	3
211	M45	1	max	346.09	5	119.729	5	36.327	12	0.138	13	-2.17	15	334.478	5
212			min	59.368	15	18.694	15	3.762	15	-0.085	14	-21.29	12	52.382	15
213		2	max	380.311	5	129.506	5	36.327	12	0.138	13	-1.192	15	302.077	5
214			min	64.901	15	20.275	15	3.762	15	-0.085	14	-11.845	12	47.316	15
215		3	max	414.532	5	139.284	5	36.327	12	0.138	13	-0.213	15	267.134	5
216			min	70.434	15	21.856	15	3.762	15	-0.085	14	-2.4	12	41.839	15
217		4	max	448.753	5	149.061	5	36.327	12	0.138	13	7.045	12	229.649	5
218			min	75.966	15	23.437	15	3.762	15	-0.085	14	0.765	15	35.951	15
219		5	max	482.974	5	158.839	5	36.327	12	0.138	13	16.491	12	189.621	5
220			min	81.499	15	25.017	15	3.762	15	-0.085	14	1.743	15	29.652	15
221	M47	1	max	414.091	5	-18.808	14	-3.333	15	0	21	37.524	12	-22.849	14
222			min	65.217	14	-125.564	3	-36.08	12	0	1	3.467	15	-150.926	3
223		2	max	448.312	5	-20.389	14	-3.333	15	0	21	28.143	12	-17.753	14
224			min	70.749	14	-135.342	3	-36.08	12	0	1	2.6	15	-117.008	3
225		3	max	482.533	5	-21.97	14	-3.333	15	0	21	18.762	12	-12.246	14
226			min	76.282	14	-145.119	3	-36.08	12	0	1	1.733	15	-80.547	3
227		4	max	516.754	5	-23.55	14	-3.333	15	0	21	9.381	12	-6.329	14
228			min	81.815	14	-154.897	3	-36.08	12	0	1	0.867	15	-41.545	3
229		5	max	550.975	5	-25.131	14	-3.333	15	0	21	0	21	0	21
230			min	87.347	14	-164.674	3	-36.08	12	0	1	0	1	0	1
231	M49	1	max	537.538	5	162.772	5	36.425	12	0	21	-3.682	15	189.622	5
232			min	87.658	15	25.285	15	3.54	15	0	1	-37.882	12	29.584	15
233		2	max	571.759	5	172.549	5	36.425	12	0	21	-2.761	15	146.03	5
234			min	93.191	15	26.865	15	3.54	15	0	1	-28.412	12	22.805	15
235		3	max	605.98	5	182.326	5	36.425	12	0	21	-1.841	15	99.896	5
236			min	98.723	15	28.446	15	3.54	15	0	1	-18.941	12	15.614	15
237		4	max	640.201	5	192.104	5	36.425	12	0	21	-0.92	15	51.219	5
238			min	104.256	15	30.027	15	3.54	15	0	1	-9.471	12	8.013	15

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
239		5	max	674.422	5	201.881	5	36.425	12	0	21	0	21	0	21
240			min	109.789	15	31.608	15	3.54	15	0	1	0	1	0	1
241	M25	1	max	98.82	12	193.142	13	35.764	12	-0.538	14	-2.609	15	152.418	13
242			min	9.462	15	12.437	14	3.479	15	-4.294	3	-26.823	12	13.865	14
243		2	max	98.82	12	198.183	13	35.764	12	-0.538	14	-1.957	15	115.731	13
244			min	9.462	15	15.462	14	3.479	15	-4.294	3	-20.117	12	11.249	14
245		3	max	98.82	12	203.224	13	35.764	12	-0.538	14	-1.305	15	78.099	13
246			min	9.462	15	18.486	14	3.479	15	-4.294	3	-13.412	12	8.067	14
247		4	max	98.82	12	208.264	13	35.764	12	-0.538	14	-0.652	15	39.522	13
248			min	9.462	15	21.511	14	3.479	15	-4.294	3	-6.706	12	4.317	14
249		5	max	98.82	12	213.305	13	35.764	12	-0.538	14	0	21	0	21
250			min	9.462	15	24.535	14	3.479	15	-4.294	3	0	1	0	1
251	M26	1	max	-9.462	15	-78.229	15	-3.417	15	8.1	5	27.208	12	-63.209	15
252			min	-98.82	12	-552.208	3	-36.277	12	1.344	15	2.562	15	-421.717	3
253		2	max	-9.462	15	-81.254	15	-3.417	15	8.1	5	20.406	12	-48.257	15
254			min	-98.82	12	-557.249	3	-36.277	12	1.344	15	1.922	15	-317.706	3
255		3	max	-9.462	15	-84.278	15	-3.417	15	8.1	5	13.604	12	-32.738	15
256			min	-98.82	12	-562.29	3	-36.277	12	1.344	15	1.281	15	-212.749	3
257		4	max	-9.462	15	-87.303	15	-3.417	15	8.1	5	6.802	12	-16.653	15
258			min	-98.82	12	-567.331	3	-36.277	12	1.344	15	0.641	15	-106.847	3
259		5	max	-9.462	15	-90.327	15	-3.417	15	8.1	5	0	21	0	21
260			min	-98.82	12	-572.371	3	-36.277	12	1.344	15	0	1	0	1
261	M27	1	max	5.211	5	31.364	12	17.149	12	-0.18	15	-2.005	15	30.054	12
262			min	1.144	14	2.896	15	0.744	15	-1.151	3	-20.808	12	2.659	15
263		2	max	5.211	5	31.364	12	18.037	12	-0.18	15	-1.5	15	14.373	12
264			min	1.144	14	2.896	15	1.277	15	-1.151	3	-12.011	12	1.211	15
265		3	max	5.211	5	31.364	12	18.925	12	-0.18	15	-0.682	14	-0.225	21
266			min	1.144	14	2.896	15	1.809	15	-1.151	3	-2.897	3	-1.349	3
267		4	max	5.211	5	31.364	12	19.813	12	-0.18	15	6.914	12	-1.685	15
268			min	1.144	14	2.896	15	2.342	15	-1.151	3	0.309	15	-16.991	12
269		5	max	5.211	5	31.364	12	20.701	12	-0.18	15	17.042	12	-3.133	15
270			min	1.144	14	2.896	15	2.875	15	-1.151	3	1.613	15	-32.673	12
271	M29	1	max	-1.071	14	10.186	12	31.983	12	-0.149	15	-2.85	15	9.896	12
272			min	-6.03	3	0.977	15	2.17	15	-0.835	3	-32.833	12	0.862	15
273		2	max	-1.071	14	10.186	12	32.871	12	-0.149	15	-1.631	15	4.803	12
274			min	-6.03	3	0.977	15	2.703	15	-0.835	3	-16.619	12	0.373	15
275		3	max	-1.071	14	10.186	12	33.759	12	-0.149	15	0.311	2	-0.107	2
276			min	-6.03	3	0.977	15	3.235	15	-0.835	3	-0.257	8	-0.298	3
277		4	max	-1.071	14	10.186	12	34.647	12	-0.149	15	17.14	12	-0.604	15
278			min	-6.03	3	0.977	15	3.768	15	-0.835	3	1.604	15	-5.383	12
279		5	max	-1.071	14	10.186	12	35.535	12	-0.149	15	34.686	12	-1.092	15
280			min	-6.03	3	0.977	15	4.301	15	-0.835	3	3.621	15	-10.476	12
281	M32	1	max	1.048	5	10.532	12	33.703	12	-0.085	14	-3.122	15	10.415	12
282			min	0.19	14	1.01	15	2.337	15	-0.571	3	-35.06	12	0.931	15
283		2	max	1.048	5	10.532	12	34.591	12	-0.085	14	-1.82	15	5.149	12
284			min	0.19	14	1.01	15	2.869	15	-0.571	3	-17.987	12	0.426	15
285		3	max	1.048	5	10.532	12	35.479	12	-0.085	14	-0.053	2	0.018	2
286			min	0.19	14	1.01	15	3.402	15	-0.571	3	-0.473	3	-0.133	8
287		4	max	1.048	5	10.532	12	36.367	12	-0.085	14	17.493	12	-0.585	15
288			min	0.19	14	1.01	15	3.935	15	-0.571	3	1.582	15	-5.382	12
289		5	max	1.048	5	10.532	12	37.255	12	-0.085	14	35.898	12	-1.09	15
290			min	0.19	14	1.01	15	4.468	15	-0.571	3	3.683	15	-10.648	12
291	M34	1	max	-0.031	14	10.517	12	33.942	12	-0.028	14	-3.127	15	10.372	12
292			min	-0.19	3	1.009	15	2.36	15	-0.369	13	-35.212	12	0.923	15
293		2	max	-0.031	14	10.517	12	34.83	12	-0.028	14	-1.814	15	5.113	12

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
294			min	-0.19	3	1.009	15	2.893	15	-0.369	13	-18.019	12	0.419	15
295		3	max	-0.031	14	10.517	12	35.718	12	-0.028	14	0.009	2	-0.003	2
296			min	-0.19	3	1.009	15	3.426	15	-0.369	13	-0.391	8	-0.145	3
297		4	max	-0.031	14	10.517	12	36.606	12	-0.028	14	17.699	12	-0.59	15
298			min	-0.19	3	1.009	15	3.959	15	-0.369	13	1.612	15	-5.404	12
299		5	max	-0.031	14	10.517	12	37.494	12	-0.028	14	36.224	12	-1.094	15
300			min	-0.19	3	1.009	15	4.492	15	-0.369	13	3.725	15	-10.662	12
301	M36	1	max	0.039	5	10.504	12	34.177	12	0.016	14	-3.154	15	10.364	12
302			min	-0.001	14	1.007	15	2.383	15	-0.221	13	-35.463	12	0.923	15
303		2	max	0.039	5	10.504	12	35.065	12	0.016	14	-1.829	15	5.112	12
304			min	-0.001	14	1.007	15	2.916	15	-0.221	13	-18.152	12	0.419	15
305		3	max	0.039	5	10.504	12	35.953	12	0.016	14	-0.002	2	0.001	2
306			min	-0.001	14	1.007	15	3.449	15	-0.221	13	-0.398	3	-0.14	8
307		4	max	0.039	5	10.504	12	36.841	12	0.016	14	17.801	12	-0.588	15
308			min	-0.001	14	1.007	15	3.981	15	-0.221	13	1.62	15	-5.392	12
309		5	max	0.039	5	10.504	12	37.729	12	0.016	14	36.443	12	-1.091	15
310			min	-0.001	14	1.007	15	4.514	15	-0.221	13	3.743	15	-10.644	12
311	M38	1	max	0.08	5	10.917	12	35.956	12	0.048	14	-3.314	15	10.774	12
312			min	0.005	2	1.045	15	2.547	15	-0.114	13	-37.234	12	0.959	15
313		2	max	0.08	5	10.917	12	36.844	12	0.048	14	-1.907	15	5.316	12
314			min	0.005	2	1.045	15	3.08	15	-0.114	13	-19.034	12	0.437	15
315		3	max	0.08	5	10.917	12	37.732	12	0.048	14	0	2	0	2
316			min	0.005	2	1.045	15	3.613	15	-0.114	13	-0.39	8	-0.143	13
317		4	max	0.08	5	10.917	12	38.62	12	0.048	14	18.698	12	-0.608	15
318			min	0.005	2	1.045	15	4.146	15	-0.114	13	1.706	15	-5.601	12
319		5	max	0.08	5	10.917	12	39.508	12	0.048	14	38.231	12	-1.13	15
320			min	0.005	2	1.045	15	4.678	15	-0.114	13	3.912	15	-11.059	12
321	M40	1	max	-0.018	2	14.795	12	50.044	12	0.067	8	-4.629	15	14.662	12
322			min	-0.424	12	1.517	15	3.841	15	-0.067	9	-51.356	12	1.437	15
323		2	max	-0.018	2	14.795	12	50.932	12	0.067	8	-2.575	15	7.265	12
324			min	-0.424	12	1.517	15	4.374	15	-0.067	9	-26.112	12	0.679	15
325		3	max	-0.018	2	14.795	12	51.82	12	0.067	8	0	2	0	2
326			min	-0.424	12	1.517	15	4.907	15	-0.067	9	-0.424	3	-0.132	9
327		4	max	-0.018	2	14.795	12	52.708	12	0.067	8	25.708	12	-0.838	15
328			min	-0.424	12	1.517	15	5.44	15	-0.067	9	2.332	15	-7.53	12
329		5	max	-0.018	2	14.795	12	53.596	12	0.067	8	52.284	12	-1.596	15
330			min	-0.424	12	1.517	15	5.973	15	-0.067	9	5.185	15	-14.927	12
331	M42	1	max	280.905	18	0.973	18	0.042	12	0.001	13	0	21	0	21
332			min	-20.409	21	0.049	2	0.003	15	0	14	0	1	0	1
333		2	max	279.914	18	0.371	18	0.042	12	0.001	13	0.515	18	-0.016	2
334			min	-21.004	21	0.049	2	0.003	15	0	14	0.055	2	-0.458	18
335		3	max	278.923	18	0.049	2	0.042	12	0.001	13	0.595	18	-0.031	2
336			min	-21.598	21	-0.301	17	0.003	15	0	14	0.11	2	-0.48	18
337		4	max	277.932	18	0.049	2	0.042	12	0.001	13	0.239	18	0.025	21
338			min	-22.193	21	-0.902	17	0.003	15	0	14	-0.001	21	-0.066	18
339		5	max	276.94	18	0.049	2	0.042	12	0.001	13	0.22	2	0.897	17
340			min	-22.788	21	-1.504	17	0.003	15	0	14	-0.843	17	-0.063	2
341	M44	1	max	288.309	19	0.915	17	0.03	19	0.001	13	0	21	0	21
342			min	-17.136	20	-0.015	2	0.003	15	0	14	0	1	0	1
343		2	max	287.318	19	0.313	17	0.03	19	0.001	13	0.453	19	0.026	2
344			min	-17.73	20	-0.015	2	0.003	15	0	14	0.005	2	-0.438	9
345		3	max	286.327	19	-0.015	2	0.03	19	0.001	13	0.471	19	0.053	2
346			min	-18.325	20	-0.328	18	0.003	15	0	14	0.009	2	-0.441	9
347		4	max	285.335	19	-0.015	2	0.03	19	0.001	13	0.053	19	0.119	12
348			min	-18.92	20	-0.929	18	0.003	15	0	14	-0.025	20	-0.019	15

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
349		5	max	284.344	19	-0.015	2	0.03	19	0.001	13	0.019	2	1.029	12
350			min	-19.514	20	-1.531	18	0.003	15	0	14	-0.897	16	0.106	2
351	M46	1	max	489.099	5	0.9	16	0.079	5	0	14	0	21	0	21
352			min	53.891	15	-0.018	2	0.009	15	-0.002	3	0	1	0	1
353		2	max	488.108	5	0.298	16	0.079	5	0	14	0.474	18	0.054	2
354			min	53.296	15	-0.018	2	0.009	15	-0.002	3	0.028	2	-0.418	16
355		3	max	487.116	5	-0.018	2	0.079	5	0	14	0.513	18	0.107	2
356			min	52.701	15	-0.329	19	0.009	15	-0.002	3	0.055	2	-0.401	16
357		4	max	486.125	5	-0.018	2	0.079	5	0	14	0.116	18	0.228	5
358			min	52.107	15	-0.931	19	0.009	15	-0.002	3	0.011	21	0.027	20
359		5	max	485.134	5	-0.018	2	0.079	5	0	14	0.11	2	1.175	5
360			min	51.512	15	-1.533	19	0.009	15	-0.002	3	-0.84	17	0.215	2
361	M48	1	max	269.295	18	0.924	19	-0.009	15	0	15	0	21	0	21
362			min	13.134	21	0.012	2	-0.077	3	-0.002	12	0	1	0	1
363		2	max	270.286	18	0.322	19	-0.009	15	0	15	0.428	17	-0.049	2
364			min	13.729	21	0.012	2	-0.077	3	-0.002	12	-0.031	2	-0.505	3
365		3	max	271.277	18	0.012	2	-0.009	15	0	15	0.42	17	-0.098	2
366			min	14.324	21	-0.3	16	-0.077	3	-0.002	12	-0.063	2	-0.573	3
367		4	max	272.268	18	0.012	2	-0.009	15	0	15	-0.01	21	-0.025	20
368			min	14.919	21	-0.901	16	-0.077	3	-0.002	12	-0.129	18	-0.207	3
369		5	max	273.259	18	0.012	2	-0.009	15	0	15	-0.126	2	0.805	16
370			min	15.513	21	-1.503	16	-0.077	3	-0.002	12	-1.043	18	-0.195	2
371	M50	1	max	152.849	19	0.92	13	0.031	12	0	20	0	21	0	21
372			min	4.676	20	0.011	2	0.003	15	-0.002	19	0	1	0	1
373		2	max	151.858	19	0.318	13	0.031	12	0	20	0.469	19	0.008	2
374			min	4.081	20	0.011	2	0.003	15	-0.002	19	0.023	2	-0.437	9
375		3	max	150.867	19	0.011	2	0.031	12	0	20	0.503	19	0.016	2
376			min	3.487	20	-0.301	8	0.003	15	-0.002	19	0.046	2	-0.437	9
377		4	max	149.876	19	0.011	2	0.031	12	0	20	0.102	19	0.043	12
378			min	2.892	20	-0.903	8	0.003	15	-0.002	19	0.009	20	-0.007	15
379		5	max	148.885	19	0.011	2	0.031	12	0	20	0.092	2	0.929	12
380			min	2.297	20	-1.504	8	0.003	15	-0.002	19	-0.844	16	0.031	2
381	M51	1	max	219.614	19	0.904	8	-0.003	15	0.001	13	0	21	0	21
382			min	10.533	20	-0.011	2	-0.033	12	0	14	0	1	0	1
383		2	max	220.605	19	0.302	8	-0.003	15	0.001	13	0.43	16	-0.008	2
384			min	11.127	20	-0.011	2	-0.033	12	0	14	-0.024	2	-0.452	12
385		3	max	221.596	19	-0.011	2	-0.003	15	0.001	13	0.423	16	-0.016	2
386			min	11.722	20	-0.318	13	-0.033	12	0	14	-0.048	2	-0.469	12
387		4	max	222.587	19	-0.011	2	-0.003	15	0.001	13	-0.007	20	0.008	15
388			min	12.317	20	-0.92	13	-0.033	12	0	14	-0.105	19	-0.049	12
389		5	max	223.579	19	-0.011	2	-0.003	15	0.001	13	-0.096	2	0.875	9
390			min	12.912	20	-1.522	13	-0.033	12	0	14	-1.011	19	-0.032	2
391	M52	1	max	340.035	19	0.902	17	0.119	12	0	20	0	21	0	21
392			min	-9.862	20	-0.078	2	0.003	15	-0.003	19	0	1	0	1
393		2	max	339.043	19	0.3	17	0.119	12	0	20	0.449	19	0.118	2
394			min	-10.456	20	-0.078	2	0.003	15	-0.003	19	0.004	2	-0.423	17
395		3	max	338.052	19	-0.078	2	0.119	12	0	20	0.462	19	0.235	2
396			min	-11.051	20	-0.416	18	0.003	15	-0.003	19	0.008	2	-0.411	17
397		4	max	337.061	19	-0.078	2	0.119	12	0	20	0.04	19	0.506	18
398			min	-11.646	20	-1.018	18	0.003	15	-0.003	19	-0.015	20	-0.01	21
399		5	max	336.07	19	-0.078	2	0.119	12	0	20	0.016	2	1.546	18
400			min	-12.241	20	-1.62	18	0.003	15	-0.003	19	-0.885	16	0.47	2
401	M53	1	max	338.46	18	1.014	18	-0.003	15	0	15	0	21	0	21
402			min	-12.283	21	0.074	2	-0.12	12	-0.001	12	0	1	0	1
403		2	max	339.451	18	0.412	18	-0.003	15	0	15	0.438	16	-0.114	2

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
404			min	-11.688	21	0.074	2	-0.12	12	-0.001	12	-0.007	2	-0.602	18
405		3	max	340.442	18	0.074	2	-0.003	15	0	15	0.441	16	-0.228	2
406			min	-11.093	21	-0.301	17	-0.12	12	-0.001	12	-0.014	2	-0.769	18
407		4	max	341.433	18	0.074	2	-0.003	15	0	15	0.014	20	0.013	21
408			min	-10.498	21	-0.903	17	-0.12	12	-0.001	12	-0.049	19	-0.5	18
409		5	max	342.425	18	0.074	2	-0.003	15	0	15	-0.029	2	0.829	17
410			min	-9.904	21	-1.505	17	-0.12	12	-0.001	12	-0.936	19	-0.456	2
411	M54	1	max	282.569	19	1.616	18	-0.003	15	0	20	-0.167	2	1.275	12
412			min	-20.55	20	0.08	2	-0.031	19	0	19	-1.115	18	0.295	2
413		2	max	281.578	19	1.014	18	-0.003	15	0	20	0.012	21	0.303	12
414			min	-21.145	20	0.08	2	-0.031	19	0	19	-0.183	18	0.013	15
415		3	max	280.587	19	0.412	18	-0.003	15	0	20	0.434	17	0.147	2
416			min	-21.74	20	0.08	2	-0.031	19	0	19	-0.083	2	-0.405	9
417		4	max	279.596	19	0.08	2	-0.003	15	0	20	0.435	17	0.074	2
418			min	-22.334	20	-0.289	17	-0.031	19	0	19	-0.042	2	-0.42	9
419		5	max	278.605	19	0.08	2	-0.003	15	0	20	0	21	0	21
420			min	-22.929	20	-0.891	17	-0.031	19	0	19	0	1	0	1
421	M55	1	max	274.956	18	1.539	19	-0.003	15	0	20	0.034	2	1.076	19
422			min	-23.858	21	0.016	2	-0.042	12	-0.002	19	-0.912	17	0.126	2
423		2	max	273.964	18	0.937	19	-0.003	15	0	20	0.057	18	0.154	19
424			min	-24.452	21	0.016	2	-0.042	12	-0.002	19	-0.032	21	-0.007	20
425		3	max	272.973	18	0.336	19	-0.003	15	0	20	0.474	18	0.063	2
426			min	-25.047	21	0.016	2	-0.042	12	-0.002	19	0.017	2	-0.429	16
427		4	max	271.982	18	0.016	2	-0.003	15	0	20	0.455	18	0.031	2
428			min	-25.642	21	-0.307	16	-0.042	12	-0.002	19	0.009	2	-0.432	16
429		5	max	270.991	18	0.016	2	-0.003	15	0	20	0	21	0	21
430			min	-26.237	21	-0.909	16	-0.042	12	-0.002	19	0	1	0	1
431	M56	1	max	275.335	18	1.469	9	0.076	5	0.002	5	0.174	2	0.718	9
432			min	16.658	21	-0.115	2	0.009	15	0	21	-0.823	17	-0.493	2
433		2	max	276.326	18	0.867	9	0.076	5	0.002	5	0.177	5	-0.06	15
434			min	17.253	21	-0.115	2	0.009	15	0	21	0.018	21	-0.508	3
435		3	max	277.317	18	0.265	9	0.076	5	0.002	5	0.553	5	-0.246	2
436			min	17.848	21	-0.115	2	0.009	15	0	21	0.087	2	-0.775	3
437		4	max	278.308	18	-0.115	2	0.076	5	0.002	5	0.494	5	-0.123	2
438			min	18.442	21	-0.459	3	0.009	15	0	21	0.044	2	-0.605	3
439		5	max	279.299	18	-0.115	2	0.076	5	0.002	5	0	21	0	21
440			min	19.037	21	-1.06	3	0.009	15	0	21	0	1	0	1
441	M57	1	max	483.569	5	1.67	5	-0.009	15	0	20	-0.186	2	1.582	5
442			min	50.453	15	0.121	2	-0.08	3	-0.003	19	-1.118	3	0.516	2
443		2	max	482.577	5	1.068	5	-0.009	15	0	20	-0.017	21	0.533	5
444			min	49.858	15	0.121	2	-0.08	3	-0.003	19	-0.185	3	0.06	15
445		3	max	481.586	5	0.466	5	-0.009	15	0	20	0.412	17	0.258	2
446			min	49.263	15	0.121	2	-0.08	3	-0.003	19	-0.093	2	-0.358	9
447		4	max	480.595	5	0.121	2	-0.009	15	0	20	0.424	17	0.129	2
448			min	48.669	15	-0.265	9	-0.08	3	-0.003	19	-0.047	2	-0.397	9
449		5	max	479.604	5	0.121	2	-0.009	15	0	20	0	21	0	21
450			min	48.074	15	-0.867	9	-0.08	3	-0.003	19	0	1	0	1
451	M58	1	max	225.461	19	1.494	16	0.033	12	0.001	13	0.034	2	0.813	16
452			min	14.017	20	-0.034	2	0.003	15	0	14	-0.87	8	-0.162	2
453		2	max	226.452	19	0.892	16	0.033	12	0.001	13	0.043	13	-0.022	20
454			min	14.611	20	-0.034	2	0.003	15	0	14	-0.003	14	-0.177	3
455		3	max	227.443	19	0.29	16	0.033	12	0.001	13	0.464	13	-0.081	2
456			min	15.206	20	-0.034	2	0.003	15	0	14	0.017	2	-0.554	3
457		4	max	228.434	19	-0.034	2	0.033	12	0.001	13	0.45	13	-0.041	2
458			min	15.801	20	-0.351	19	0.003	15	0	14	0.009	2	-0.495	3

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
459		5	max	229.426	19	-0.034	2	0.033	12	0.001	13	0	21	0	21
460			min	16.396	20	-0.953	19	0.003	15	0	14	0	1	0	1
461	M59	1	max	147.113	19	1.555	19	-0.003	15	0	20	-0.038	2	1.103	19
462			min	1.211	20	0.035	2	-0.031	12	-0.002	19	-0.932	13	0.162	2
463		2	max	146.122	19	0.953	19	-0.003	15	0	20	0.005	14	0.174	19
464			min	0.617	20	0.035	2	-0.031	12	-0.002	19	-0.045	13	0.019	20
465		3	max	145.131	19	0.351	19	-0.003	15	0	20	0.436	8	0.081	2
466			min	0.022	20	0.035	2	-0.031	12	-0.002	19	-0.019	2	-0.409	16
467		4	max	144.139	19	0.035	2	-0.003	15	0	20	0.436	8	0.04	2
468			min	-0.573	20	-0.292	16	-0.031	12	-0.002	19	-0.01	2	-0.422	16
469		5	max	143.148	19	0.035	2	-0.003	15	0	20	0	21	0	21
470			min	-1.168	20	-0.894	16	-0.031	12	-0.002	19	0	1	0	1
471	M60	1	max	344.744	18	1.474	17	0.122	12	0	20	0.212	2	0.738	17
472			min	-8.807	21	-0.158	2	0.003	15	-0.001	19	-0.83	17	-0.703	2
473		2	max	345.735	18	0.872	17	0.122	12	0	20	0.218	18	-0.028	21
474			min	-8.213	21	-0.158	2	0.003	15	-0.001	19	0.01	21	-0.742	18
475		3	max	346.727	18	0.271	17	0.122	12	0	20	0.581	18	-0.28	21
476			min	-7.618	21	-0.158	2	0.003	15	-0.001	19	0.106	2	-0.93	18
477		4	max	347.718	18	-0.158	2	0.122	12	0	20	0.508	18	-0.176	2
478			min	-7.023	21	-0.522	18	0.003	15	-0.001	19	0.053	2	-0.683	18
479		5	max	348.709	18	-0.158	2	0.122	12	0	20	0	21	0	21
480			min	-6.429	21	-1.124	18	0.003	15	-0.001	19	0	1	0	1
481	M61	1	max	334.628	19	1.73	18	-0.003	15	0.003	5	-0.229	2	1.862	18
482			min	-13.188	20	0.163	2	-0.118	12	0	20	-1.184	18	0.562	15
483		2	max	333.637	19	1.128	18	-0.003	15	0.003	5	-0.011	21	0.743	18
484			min	-13.783	20	0.163	2	-0.118	12	0	20	-0.234	18	0.029	15
485		3	max	332.646	19	0.526	18	-0.003	15	0.003	5	0.413	17	0.356	2
486			min	-14.377	20	0.163	2	-0.118	12	0	20	-0.115	2	-0.367	9
487		4	max	331.655	19	0.163	2	-0.003	15	0.003	5	0.424	17	0.178	2
488			min	-14.972	20	-0.27	17	-0.118	12	0	20	-0.057	2	-0.401	9
489		5	max	330.664	19	0.163	2	-0.003	15	0.003	5	0	21	0	21
490			min	-15.567	20	-0.871	17	-0.118	12	0	20	0	1	0	1

Envelope Maximum Member Section Forces

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
1	M1	max	618.24	0	5	0.01	7	20	-0.011	7	15	0	7	21	0.001	0	19	0.607	7	19
2		min	60.416	7	21	-0.087	0	19	-0.099	0	3	-0.001	0	18	-0.691	7	3	-0.073	7	20
3	M2	max	433.495	0	18	0.015	7	20	-0.011	7	15	0.001	7	12	0	0	14	0.373	7	19
4		min	31.085	7	21	-0.053	0	19	-0.099	0	3	0	0	15	-0.694	7	3	-0.107	7	20
5	M3	max	29.528	0	20	0	4.25	21	560.697	0	5	0.008	4.25	5	595.741	2.125	5	0	4.25	21
6		min	-41.355	0	19	0	0	1	-560.697	4.25	3	0.001	0	15	0	0	1	0	0	1
7	M4	max	21.746	0	21	0	4.25	21	546.322	0	5	0.008	4.25	5	580.467	2.125	5	0	4.25	21
8		min	-79.241	0	18	0	0	1	-546.322	4.25	3	0.001	0	15	0	0	1	0	0	1
9	M5	max	3.775	4.25	20	25.5	4.25	15	56.791	0	19	-0.001	4.25	15	60.34	2.125	19	27.094	2.125	15
10		min	-16.396	0	19	-25.5	0	9	-56.791	4.25	1	-0.008	0	3	0	0	1	-27.094	2.125	8
11	M6	max	-8.615	0.5	15	21.047	0	15	724.198	0	5	-0.001	0.5	15	358.758	0.5	5	31.689	0.5	12
12		min	-107.515	0	12	-65.629	0	12	114.657	0.5	15	-0.008	0	3	0	0	1	-9.024	0.5	15
13	M7	max	-4.512	2	21	60.505	0	13	138.464	0	5	-0.001	2	15	464.474	1.646	5	31.689	0	12
14		min	-71.747	0	18	-5.829	0	14	-39.446	2	2	-0.008	0	3	57.989	0	15	-91.057	2	13
15	M8	max	255.853	0	19	0.01	7	20	0.024	7	5	0.002	7	5	0.165	7	5	0.607	7	19
16		min	6.974	7	20	-0.087	0	19	0.003	0	15	0	0	20	-0.001	0	19	-0.073	7	20
17	M9	max	262.566	0	19	0.015	7	20	0.024	7	5	0.001	7	12	0.166	7	5	0.371	7	19
18		min	8.087	7	20	-0.053	0	19	0.003	0	15	0	0	15	0	0	14	-0.108	7	20
19	M10	max	1.927	1.75	21	13.348	1.75	14	-26.956	0	14	-0.001	1.75	15	463.431	0	5	7.424	0.638	14
20		min	-38.466	0	18	-59.907	1.75	13	-288.202	1.75	3	-0.008	0	3	0	1.75	1	-91.057	0	13

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
21	M11	max	11.241	1.04	14	120.861	0	5	-2.135	1.04	15	1.567	1.04	5	17.085	0	12	-14.103	0	14
22		min	-183.751	0	13	11.804	1.04	15	-30.543	0	12	0.255	0	15	-14.68	1.04	12	-257.455	1.04	3
23	M12	max	-52.129	1.04	15	-4.812	1.04	14	41.238	1.04	12	1.612	1.04	5	17.519	1.04	12	485.943	1.04	5
24		min	-529.61	0	3	-82.416	0	3	4.747	0	15	0.264	0	15	-25.369	0	12	63.029	0	15
25	M28	max	65.482	1.04	12	80.753	0	5	-3.326	1.04	15	1.082	1.04	5	19.609	0	12	-33.205	0	14
26		min	-82.331	0	13	5.138	1.04	15	-36.267	0	12	0.184	0	14	-18.109	1.04	12	-321.937	1.04	3
27	M30	max	-25.595	1.04	15	1.668	1.04	14	35.514	1.04	12	1.077	1.04	5	18.225	1.04	12	509.834	1.04	5
28		min	-356.409	0	3	-43.329	0	3	3.557	0	15	0.183	0	14	-18.71	0	12	74.557	0	15
29	M31	max	161.274	1.04	5	40.164	0	5	-3.114	1.04	15	0.708	1.04	13	18.464	0	12	-45.205	0	14
30		min	-0.165	0	15	-1.53	1.04	15	-35.227	0	12	0.084	0	14	-18.173	1.04	12	-343.942	1.04	3
31	M33	max	1.109	1.04	15	35.008	1.04	5	36.51	1.04	12	0.709	1.04	13	18.753	1.04	12	509.487	0.108	5
32		min	-181.494	0	3	-4.913	0	13	3.767	0	15	0.084	0	14	-19.217	0	12	77.291	1.04	15
33	M35	max	263.326	1.04	5	1.161	0	14	-3.146	1.04	15	0.447	1.04	13	18.534	0	12	-48.064	1.04	14
34		min	19.419	0	15	-40.04	1.04	3	-35.366	0	12	0.006	0	14	-18.247	1.04	12	-344.299	0	3
35	M37	max	130.521	1.04	5	74.792	1.04	5	36.305	1.04	12	0.446	1.04	13	18.752	1.04	12	492.834	0	5
36		min	-9.706	0	12	5.363	0	15	3.729	0	15	0.006	0	14	-19.006	0	12	68.324	1.04	15
37	M39	max	365.171	1.04	5	-5.552	0	14	-3.143	1.04	15	0.252	1.04	13	18.698	0	12	-38.985	1.04	14
38		min	38.981	0	15	-81.551	1.04	3	-35.295	0	12	-0.052	0	14	-18.009	1.04	12	-323.186	0	3
39	M41	max	305.86	1.04	5	116.328	1.04	5	36.27	1.04	12	0.252	1.04	13	18.508	1.04	12	435.196	0	5
40		min	28.189	0	14	12.014	0	15	3.725	0	15	-0.052	0	14	-19.214	0	12	52.456	1.04	15
41	M43	max	465.24	1.04	5	-12.245	0	14	-3.101	1.04	15	0.138	1.04	13	20.752	0	12	-22.915	1.04	14
42		min	56.111	0	14	-123.258	1.04	3	-35.226	0	12	-0.085	0	14	-15.884	1.04	12	-258.78	0	3
43	M45	max	482.974	1.04	5	158.839	1.04	5	36.327	1.04	12	0.138	1.04	13	16.491	1.04	12	334.478	0	5
44		min	59.368	0	15	18.694	0	15	3.762	0	15	-0.085	0	14	-21.29	0	12	29.652	1.04	15
45	M47	max	550.975	1.04	5	-18.808	0	14	-3.333	1.04	15	0	1.04	21	37.524	0	12	0	1.04	21
46		min	65.217	0	14	-164.674	1.04	3	-36.08	0	12	0	0	1	0	1.04	1	-150.926	0	3
47	M49	max	674.422	1.04	5	201.881	1.04	5	36.425	1.04	12	0	1.04	21	0	1.04	21	189.622	0	5
48		min	87.658	0	15	25.285	0	15	3.54	0	15	0	0	1	-37.882	0	12	0	1.04	1
49	M25	max	98.82	0.75	12	213.305	0.75	13	35.764	0.75	12	-0.538	0.75	14	0	0.75	21	152.418	0	13
50		min	9.462	0	15	12.437	0	14	3.479	0	15	-4.294	0	3	-26.823	0	12	0	0.75	1
51	M26	max	-9.462	0.75	15	-78.229	0	15	-3.417	0.75	15	8.1	0.75	5	27.208	0	12	0	0.75	21
52		min	-98.82	0	12	-572.371	0.75	3	-36.277	0	12	1.344	0	15	0	0.75	1	-421.717	0	3
53	M27	max	5.211	2	5	31.364	2	12	20.701	2	12	-0.18	2	15	17.042	2	12	30.054	0	12
54		min	1.144	0	14	2.896	0	15	0.744	0	15	-1.151	0	3	-20.808	0	12	-32.673	2	12
55	M29	max	-1.071	2	14	10.186	2	12	35.535	2	12	-0.149	2	15	34.686	2	12	9.896	0	12
56		min	-6.03	0	3	0.977	0	15	2.17	0	15	-0.835	0	3	-32.833	0	12	-10.476	2	12
57	M32	max	1.048	2	5	10.532	2	12	37.255	2	12	-0.085	2	14	35.898	2	12	10.415	0	12
58		min	0.19	0	14	1.01	0	15	2.337	0	15	-0.571	0	3	-35.06	0	12	-10.648	2	12
59	M34	max	-0.031	2	14	10.517	2	12	37.494	2	12	-0.028	2	14	36.224	2	12	10.372	0	12
60		min	-0.19	0	3	1.009	0	15	2.36	0	15	-0.369	0	13	-35.212	0	12	-10.662	2	12
61	M36	max	0.039	2	5	10.504	2	12	37.729	2	12	0.016	2	14	36.443	2	12	10.364	0	12
62		min	-0.001	0	14	1.007	0	15	2.383	0	15	-0.221	0	13	-35.463	0	12	-10.644	2	12
63	M38	max	0.08	2	5	10.917	2	12	39.508	2	12	0.048	2	14	38.231	2	12	10.774	0	12
64		min	0.005	0	2	1.045	0	15	2.547	0	15	-0.114	0	13	-37.234	0	12	-11.059	2	12
65	M40	max	-0.018	2	2	14.795	2	12	53.596	2	12	0.067	2	8	52.284	2	12	14.662	0	12
66		min	-0.424	0	12	1.517	0	15	3.841	0	15	-0.067	0	9	-51.356	0	12	-14.927	2	12
67	M42	max	280.905	0	18	0.973	0	18	0.042	0.427	12	0.001	4.095	13	0.617	1.706	18	0.897	4.095	17
68		min	-22.788	4.095	21	-1.504	4.095	17	0.003	3.711	15	0	0	14	-0.843	4.095	17	-0.524	1.578	18
69	M44	max	288.309	0	19	0.915	0	17	0.03	2.559	19	0.001	4.095	13	0.517	1.578	19	1.029	4.095	12
70		min	-19.514	4.095	20	-1.531	4.095	18	0.003	3.711	15	0	0	14	-0.897	4.095	16	-0.494	1.535	9
71	M46	max	489.099	0	5	0.9	0	16	0.079	2.559	5	0	4.095	14	0.55	1.621	18	1.175	4.095	5
72		min	51.512	4.095	15	-1.533	4.095	19	0.009	3.711	15	-0.002	0	3	-0.84	4.095	17	-0.464	1.493	16
73	M48	max	273.259	4.095	18	0.924	0	19	-0.009	0.256	15	0	4.095	15	0.478	1.535	17	0.805	4.095	16
74		min	13.134	0	21	-1.503	4.095	16	-0.077	3.37	3	-0.002	0	12	-1.043	4.095	18	-0.599	1.706	3
75	M50	max	152.849	0	19	0.92	0	13	0.031	0.043	12	0	4.095	20	0.542	1.621	19	0.929	4.095	12

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
76		min	2.297	4.095	20	-1.504	4.095	8	0.003	3.711	15	-0.002	0	19	-0.844	4.095	16	-0.491	1.535	9
77	M51	max	223.579	4.095	19	0.904	0	8	-0.003	0.085	15	0.001	4.095	13	0.481	1.535	16	0.875	4.095	9
78		min	10.533	0	20	-1.522	4.095	13	-0.033	2.943	12	0	0	14	-1.011	4.095	19	-0.515	1.578	12
79	M52	max	340.035	0	19	0.902	0	17	0.119	3.839	12	0	4.095	20	0.51	1.578	19	1.546	4.095	18
80		min	-12.241	4.095	20	-1.62	4.095	18	0.003	3.967	15	-0.003	0	19	-0.885	4.095	16	-0.472	1.493	17
81	M53	max	342.425	4.095	18	1.014	0	18	-0.003	0.085	15	0	4.095	15	0.494	1.535	16	0.829	4.095	17
82		min	-12.283	0	21	-1.505	4.095	17	-0.12	3.881	12	-0.001	0	12	-0.936	4.095	19	-0.772	1.919	18
83	M54	max	282.569	0	19	1.616	0	18	-0.003	0.597	15	0	4.095	20	0.489	2.559	17	1.275	0	12
84		min	-22.929	4.095	20	-0.891	4.095	17	-0.031	3.625	19	0	0	19	-1.115	0	18	-0.467	2.602	9
85	M55	max	274.956	0	18	1.539	0	19	-0.003	0.512	15	0	4.095	20	0.519	2.516	18	1.076	0	19
86		min	-26.237	4.095	21	-0.909	4.095	16	-0.042	3.625	12	-0.002	0	19	-0.912	0	17	-0.485	2.559	16
87	M56	max	279.299	4.095	18	1.469	0	9	0.076	0.043	5	0.002	4.095	5	0.582	2.431	5	0.718	0	9
88		min	16.658	0	21	-1.06	4.095	3	0.009	4.095	15	0	0	21	-0.823	0	17	-0.777	2.175	3
89	M57	max	483.569	0	5	1.67	0	5	-0.009	0.768	15	0	4.095	20	0.473	2.602	17	1.582	0	5
90		min	48.074	4.095	15	-0.867	4.095	9	-0.08	3.924	3	-0.003	0	19	-1.118	0	3	-0.433	2.644	9
91	M58	max	229.426	4.095	19	1.494	0	16	0.033	1.493	12	0.001	4.095	13	0.512	2.516	13	0.813	0	16
92		min	14.017	0	20	-0.953	4.095	19	0.003	4.009	15	0	0	14	-0.87	0	8	-0.583	2.431	3
93	M59	max	147.113	0	19	1.555	0	19	-0.003	0.554	15	0	4.095	20	0.491	2.559	8	1.103	0	19
94		min	-1.168	4.095	20	-0.894	4.095	16	-0.031	3.924	12	-0.002	0	19	-0.932	0	13	-0.47	2.602	16
95	M60	max	348.709	4.095	18	1.474	0	17	0.122	3.54	12	0	4.095	20	0.605	2.389	18	0.738	0	17
96		min	-8.807	0	21	-1.124	4.095	18	0.003	3.967	15	-0.001	0	19	-0.83	0	17	-0.931	1.962	18
97	M61	max	334.628	0	19	1.73	0	18	-0.003	3.924	15	0.003	4.095	5	0.473	2.602	17	1.862	0	18
98		min	-15.567	4.095	20	-0.871	4.095	17	-0.118	0.341	12	0	0	20	-1.184	0	18	-0.44	2.644	9

Envelope Member End Reactions

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1	M1	I	max	618.24	5	0.01	20	-0.011	15	0	21	0.001	19	0	21
2			min	65.144	21	-0.087	19	-0.099	3	-0.001	18	0	20	-0.001	3
3		J	max	610.361	5	0.01	20	-0.011	15	0	21	-0.08	15	0.607	19
4			min	60.416	21	-0.087	19	-0.099	3	-0.001	18	-0.691	3	-0.073	20
5	M2	I	max	433.495	18	0.015	20	-0.011	15	0.001	12	0	14	0	14
6			min	35.812	21	-0.053	19	-0.099	3	0	15	0	13	-0.001	3
7		J	max	425.616	18	0.015	20	-0.011	15	0.001	12	-0.08	15	0.373	19
8			min	31.085	21	-0.053	19	-0.099	3	0	15	-0.694	3	-0.107	20
9	M3	I	max	29.528	20	0	21	560.697	5	0.008	5	0	21	0	21
10			min	-41.355	19	0	1	61.56	14	0.001	15	0	1	0	1
11		J	max	29.526	21	0	21	-61.56	21	0.008	5	0	21	0	21
12			min	-41.353	18	0	1	-560.697	3	0.001	15	0	1	0	1
13	M4	I	max	21.746	21	0	21	546.322	5	0.008	5	0	21	0	21
14			min	-79.241	18	0	1	60.776	14	0.001	15	0	1	0	1
15		J	max	21.739	20	0	21	-60.776	21	0.008	5	0	21	0	21
16			min	-79.231	19	0	1	-546.322	3	0.001	15	0	1	0	1
17	M5	I	max	3.775	20	25.5	14	56.791	19	-0.001	15	0	21	0	21
18			min	-16.396	19	-25.5	9	0	2	-0.008	3	0	1	0	1
19		J	max	3.775	20	25.5	15	0	2	-0.001	15	0	21	0	21
20			min	-16.396	19	-25.5	8	-56.791	1	-0.008	3	0	1	0	1
21	M6	I	max	-8.615	15	21.047	15	724.198	5	-0.001	15	0	21	0	21
22			min	-107.515	12	-65.629	12	122.674	15	-0.008	3	0	1	0	1
23		J	max	-8.615	15	15.047	15	710.836	5	-0.001	15	358.758	5	31.689	12
24			min	-107.515	12	-61.129	12	114.657	15	-0.008	3	59.333	15	-9.024	15
25	M7	I	max	-4.512	21	60.505	13	138.464	5	-0.001	15	350.658	5	31.689	12
26			min	-71.747	18	-5.829	14	8.658	14	-0.008	3	57.989	15	-9.024	15
27		J	max	-4.512	21	55.692	12	16.907	9	-0.001	15	459.137	5	4.984	14
28			min	-71.747	18	0.51	15	-39.446	2	-0.008	3	71.189	14	-91.057	13
29	M8	I	max	255.853	19	0.01	20	0.024	5	0.002	5	0	20	0	14

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
30			min	11.701	20	-0.087	19	0.003	15	0	20	-0.001	19	0	13
31		J	max	247.974	19	0.01	20	0.024	5	0.002	5	0.165	5	0.607	19
32			min	6.974	20	-0.087	19	0.003	15	0	20	0.018	15	-0.073	20
33	M9	I	max	262.566	19	0.015	20	0.024	5	0.001	12	0.001	13	0	20
34			min	12.814	20	-0.053	19	0.003	15	0	15	0	14	-0.001	19
35		J	max	254.687	19	0.015	20	0.024	5	0.001	12	0.166	5	0.371	19
36			min	8.087	20	-0.053	19	0.003	15	0	15	0.018	15	-0.108	20
37	M10	I	max	1.927	21	-7.652	14	-26.956	14	-0.001	15	463.431	5	4.984	14
38			min	-38.466	18	-45.649	3	-241.433	3	-0.008	3	71.726	14	-91.057	13
39		J	max	1.927	21	13.348	14	-55.017	14	-0.001	15	0	21	0	21
40			min	-38.466	18	-59.907	13	-288.202	3	-0.008	3	0	1	0	1
41	M11	I	max	-10.89	14	120.861	5	-2.135	15	1.567	5	17.085	12	-14.103	14
42			min	-183.751	13	18.127	15	-30.543	12	0.255	15	1.075	15	-153.496	13
43		J	max	11.241	14	81.751	5	-2.135	15	1.567	5	-1.146	15	-33.05	14
44			min	-53.117	13	11.804	15	-30.543	12	0.255	15	-14.68	12	-257.455	3
45	M12	I	max	-74.259	15	-11.135	14	41.238	12	1.612	5	-3	15	420.566	5
46			min	-529.61	3	-82.416	3	4.747	15	0.264	15	-25.369	12	63.029	15
47		J	max	-52.129	15	-4.812	14	41.238	12	1.612	5	17.519	12	485.943	5
48			min	-392.726	3	-43.307	3	4.747	15	0.264	15	1.937	15	74.706	15
49	M28	I	max	3.04	14	80.753	5	-3.326	15	1.082	5	19.609	12	-33.205	14
50			min	-82.331	13	11.461	15	-36.267	12	0.184	14	1.831	15	-258.29	3
51		J	max	65.482	12	41.643	5	-3.326	15	1.082	5	-1.628	15	-45.12	14
52			min	2.359	15	5.138	15	-36.267	12	0.184	14	-18.109	12	-321.937	3
53	M30	I	max	-47.725	15	-4.655	14	35.514	12	1.077	5	-1.845	15	485.108	5
54			min	-356.409	3	-43.329	3	3.557	15	0.183	14	-18.71	12	74.557	15
55		J	max	-25.595	15	1.668	14	35.514	12	1.077	5	18.225	12	509.834	5
56			min	-219.525	3	-5.07	13	3.557	15	0.183	14	1.854	15	79.406	15
57	M31	I	max	30.184	12	40.164	5	-3.114	15	0.708	13	18.464	12	-45.205	14
58			min	-0.165	15	4.793	15	-35.227	12	0.084	14	1.629	15	-322.508	3
59		J	max	161.274	5	2.053	12	-3.114	15	0.708	13	-1.609	15	-50.117	14
60			min	21.966	15	-1.53	15	-35.227	12	0.084	14	-18.173	12	-343.942	3
61	M33	I	max	-21.021	15	2.011	8	36.51	12	0.709	13	-1.987	15	509.263	5
62			min	-181.494	3	-4.913	13	3.767	15	0.084	14	-19.217	12	79.284	15
63		J	max	1.109	15	35.008	5	36.51	12	0.709	13	18.753	12	493.191	5
64			min	-48.646	12	5.078	15	3.767	15	0.084	14	1.931	15	77.291	15
65	M35	I	max	126.442	5	1.161	14	-3.146	15	0.447	13	18.534	12	-50.145	14
66			min	19.419	15	-2.123	9	-35.366	12	0.006	14	1.651	15	-344.299	3
67		J	max	263.326	5	-5.162	14	-3.146	15	0.447	13	-1.621	15	-48.064	14
68			min	41.549	15	-40.04	3	-35.366	12	0.006	14	-18.247	12	-322.995	3
69	M37	I	max	5.781	9	35.682	5	36.305	12	0.446	13	-1.951	15	492.834	5
70			min	-9.706	12	5.363	15	3.729	15	0.006	14	-19.006	12	77.189	15
71		J	max	130.521	5	74.792	5	36.305	12	0.446	13	18.752	12	435.387	5
72			min	17.347	14	11.686	15	3.729	15	0.006	14	1.928	15	68.324	15
73	M39	I	max	228.287	5	-5.552	14	-3.143	15	0.252	13	18.698	12	-48.048	14
74			min	38.981	15	-42.441	3	-35.295	12	-0.052	14	1.665	15	-323.186	3
75		J	max	365.171	5	-11.875	14	-3.143	15	0.252	13	-1.604	15	-38.985	14
76			min	61.112	15	-81.551	3	-35.295	12	-0.052	14	-18.009	12	-258.709	3
77	M41	I	max	168.976	5	77.218	5	36.27	12	0.252	13	-1.972	15	435.196	5
78			min	28.189	14	12.014	15	3.725	15	-0.052	14	-19.214	12	68.239	15
79		J	max	305.86	5	116.328	5	36.27	12	0.252	13	18.508	12	334.55	5
80			min	50.319	14	18.337	15	3.725	15	-0.052	14	1.902	15	52.456	15
81	M43	I	max	328.356	5	-12.245	14	-3.101	15	0.138	13	20.752	12	-38.938	14
82			min	56.111	14	-84.148	3	-35.226	12	-0.085	14	1.846	15	-258.78	3
83		J	max	465.24	5	-18.568	14	-3.101	15	0.138	13	-1.378	15	-22.915	14
84			min	78.241	14	-123.258	3	-35.226	12	-0.085	14	-15.884	12	-150.928	3

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
85	M45	I	max	346.09	5	119.729	5	36.327	12	0.138	13	-2.17	15	334.478	5
86			min	59.368	15	18.694	15	3.762	15	-0.085	14	-21.29	12	52.382	15
87		J	max	482.974	5	158.839	5	36.327	12	0.138	13	16.491	12	189.621	5
88			min	81.499	15	25.017	15	3.762	15	-0.085	14	1.743	15	29.652	15
89	M47	I	max	414.091	5	-18.808	14	-3.333	15	0	21	37.524	12	-22.849	14
90			min	65.217	14	-125.564	3	-36.08	12	0	1	3.467	15	-150.926	3
91		J	max	550.975	5	-25.131	14	-3.333	15	0	21	0	21	0	21
92			min	87.347	14	-164.674	3	-36.08	12	0	1	0	1	0	1
93	M49	I	max	537.538	5	162.772	5	36.425	12	0	21	-3.682	15	189.622	5
94			min	87.658	15	25.285	15	3.54	15	0	1	-37.882	12	29.584	15
95		J	max	674.422	5	201.881	5	36.425	12	0	21	0	21	0	21
96			min	109.789	15	31.608	15	3.54	15	0	1	0	1	0	1
97	M25	I	max	98.82	12	193.142	13	35.764	12	-0.538	14	-2.609	15	152.418	13
98			min	9.462	15	12.437	14	3.479	15	-4.294	3	-26.823	12	13.865	14
99		J	max	98.82	12	213.305	13	35.764	12	-0.538	14	0	21	0	21
100			min	9.462	15	24.535	14	3.479	15	-4.294	3	0	1	0	1
101	M26	I	max	-9.462	15	-78.229	15	-3.417	15	8.1	5	27.208	12	-63.209	15
102			min	-98.82	12	-552.208	3	-36.277	12	1.344	15	2.562	15	-421.717	3
103		J	max	-9.462	15	-90.327	15	-3.417	15	8.1	5	0	21	0	21
104			min	-98.82	12	-572.371	3	-36.277	12	1.344	15	0	1	0	1
105	M27	I	max	5.211	5	31.364	12	17.149	12	-0.18	15	-2.005	15	30.054	12
106			min	1.144	14	2.896	15	0.744	15	-1.151	3	-20.808	12	2.659	15
107		J	max	5.211	5	31.364	12	20.701	12	-0.18	15	17.042	12	-3.133	15
108			min	1.144	14	2.896	15	2.875	15	-1.151	3	1.613	15	-32.673	12
109	M29	I	max	-1.071	14	10.186	12	31.983	12	-0.149	15	-2.85	15	9.896	12
110			min	-6.03	3	0.977	15	2.17	15	-0.835	3	-32.833	12	0.862	15
111		J	max	-1.071	14	10.186	12	35.535	12	-0.149	15	34.686	12	-1.092	15
112			min	-6.03	3	0.977	15	4.301	15	-0.835	3	3.621	15	-10.476	12
113	M32	I	max	1.048	5	10.532	12	33.703	12	-0.085	14	-3.122	15	10.415	12
114			min	0.19	14	1.01	15	2.337	15	-0.571	3	-35.06	12	0.931	15
115		J	max	1.048	5	10.532	12	37.255	12	-0.085	14	35.898	12	-1.09	15
116			min	0.19	14	1.01	15	4.468	15	-0.571	3	3.683	15	-10.648	12
117	M34	I	max	-0.031	14	10.517	12	33.942	12	-0.028	14	-3.127	15	10.372	12
118			min	-0.19	3	1.009	15	2.36	15	-0.369	13	-35.212	12	0.923	15
119		J	max	-0.031	14	10.517	12	37.494	12	-0.028	14	36.224	12	-1.094	15
120			min	-0.19	3	1.009	15	4.492	15	-0.369	13	3.725	15	-10.662	12
121	M36	I	max	0.039	5	10.504	12	34.177	12	0.016	14	-3.154	15	10.364	12
122			min	-0.001	14	1.007	15	2.383	15	-0.221	13	-35.463	12	0.923	15
123		J	max	0.039	5	10.504	12	37.729	12	0.016	14	36.443	12	-1.091	15
124			min	-0.001	14	1.007	15	4.514	15	-0.221	13	3.743	15	-10.644	12
125	M38	I	max	0.08	5	10.917	12	35.956	12	0.048	14	-3.314	15	10.774	12
126			min	0.005	2	1.045	15	2.547	15	-0.114	13	-37.234	12	0.959	15
127		J	max	0.08	5	10.917	12	39.508	12	0.048	14	38.231	12	-1.13	15
128			min	0.005	2	1.045	15	4.678	15	-0.114	13	3.912	15	-11.059	12
129	M40	I	max	-0.018	2	14.795	12	50.044	12	0.067	8	-4.629	15	14.662	12
130			min	-0.424	12	1.517	15	3.841	15	-0.067	9	-51.356	12	1.437	15
131		J	max	-0.018	2	14.795	12	53.596	12	0.067	8	52.284	12	-1.596	15
132			min	-0.424	12	1.517	15	5.973	15	-0.067	9	5.185	15	-14.927	12
133	M42	I	max	280.905	18	0.973	18	0.042	12	0.001	13	0	21	0	21
134			min	-20.409	21	0.049	2	0.003	15	0	14	0	1	0	1
135		J	max	276.94	18	0.049	2	0.042	12	0.001	13	0.22	2	0.897	17
136			min	-22.788	21	-1.504	17	0.003	15	0	14	-0.843	17	-0.063	2
137	M44	I	max	288.309	19	0.915	17	0.03	19	0.001	13	0	21	0	21
138			min	-17.136	20	-0.015	2	0.003	15	0	14	0	1	0	1
139		J	max	284.344	19	-0.015	2	0.03	19	0.001	13	0.019	2	1.029	12

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
140			min	-19.514	20	-1.531	18	0.003	15	0	14	-0.897	16	0.106	2
141	M46	I	max	489.099	5	0.9	16	0.079	5	0	14	0	21	0	21
142			min	53.891	15	-0.018	2	0.009	15	-0.002	3	0	1	0	1
143		J	max	485.134	5	-0.018	2	0.079	5	0	14	0.11	2	1.175	5
144			min	51.512	15	-1.533	19	0.009	15	-0.002	3	-0.84	17	0.215	2
145	M48	I	max	269.295	18	0.924	19	-0.009	15	0	15	0	21	0	21
146			min	13.134	21	0.012	2	-0.077	3	-0.002	12	0	1	0	1
147		J	max	273.259	18	0.012	2	-0.009	15	0	15	-0.126	2	0.805	16
148			min	15.513	21	-1.503	16	-0.077	3	-0.002	12	-1.043	18	-0.195	2
149	M50	I	max	152.849	19	0.92	13	0.031	12	0	20	0	21	0	21
150			min	4.676	20	0.011	2	0.003	15	-0.002	19	0	1	0	1
151		J	max	148.885	19	0.011	2	0.031	12	0	20	0.092	2	0.929	12
152			min	2.297	20	-1.504	8	0.003	15	-0.002	19	-0.844	16	0.031	2
153	M51	I	max	219.614	19	0.904	8	-0.003	15	0.001	13	0	21	0	21
154			min	10.533	20	-0.011	2	-0.033	12	0	14	0	1	0	1
155		J	max	223.579	19	-0.011	2	-0.003	15	0.001	13	-0.096	2	0.875	9
156			min	12.912	20	-1.522	13	-0.033	12	0	14	-1.011	19	-0.032	2
157	M52	I	max	340.035	19	0.902	17	0.119	12	0	20	0	21	0	21
158			min	-9.862	20	-0.078	2	0.003	15	-0.003	19	0	1	0	1
159		J	max	336.07	19	-0.078	2	0.119	12	0	20	0.016	2	1.546	18
160			min	-12.241	20	-1.62	18	0.003	15	-0.003	19	-0.885	16	0.47	2
161	M53	I	max	338.46	18	1.014	18	-0.003	15	0	15	0	21	0	21
162			min	-12.283	21	0.074	2	-0.12	12	-0.001	12	0	1	0	1
163		J	max	342.425	18	0.074	2	-0.003	15	0	15	-0.029	2	0.829	17
164			min	-9.904	21	-1.505	17	-0.12	12	-0.001	12	-0.936	19	-0.456	2
165	M54	I	max	282.569	19	1.616	18	-0.003	15	0	20	-0.167	2	1.275	12
166			min	-20.55	20	0.08	2	-0.031	19	0	19	-1.115	18	0.295	2
167		J	max	278.605	19	0.08	2	-0.003	15	0	20	0	21	0	21
168			min	-22.929	20	-0.891	17	-0.031	19	0	19	0	1	0	1
169	M55	I	max	274.956	18	1.539	19	-0.003	15	0	20	0.034	2	1.076	19
170			min	-23.858	21	0.016	2	-0.042	12	-0.002	19	-0.912	17	0.126	2
171		J	max	270.991	18	0.016	2	-0.003	15	0	20	0	21	0	21
172			min	-26.237	21	-0.909	16	-0.042	12	-0.002	19	0	1	0	1
173	M56	I	max	275.335	18	1.469	9	0.076	5	0.002	5	0.174	2	0.718	9
174			min	16.658	21	-0.115	2	0.009	15	0	21	-0.823	17	-0.493	2
175		J	max	279.299	18	-0.115	2	0.076	5	0.002	5	0	21	0	21
176			min	19.037	21	-1.06	3	0.009	15	0	21	0	1	0	1
177	M57	I	max	483.569	5	1.67	5	-0.009	15	0	20	-0.186	2	1.582	5
178			min	50.453	15	0.121	2	-0.08	3	-0.003	19	-1.118	3	0.516	2
179		J	max	479.604	5	0.121	2	-0.009	15	0	20	0	21	0	21
180			min	48.074	15	-0.867	9	-0.08	3	-0.003	19	0	1	0	1
181	M58	I	max	225.461	19	1.494	16	0.033	12	0.001	13	0.034	2	0.813	16
182			min	14.017	20	-0.034	2	0.003	15	0	14	-0.87	8	-0.162	2
183		J	max	229.426	19	-0.034	2	0.033	12	0.001	13	0	21	0	21
184			min	16.396	20	-0.953	19	0.003	15	0	14	0	1	0	1
185	M59	I	max	147.113	19	1.555	19	-0.003	15	0	20	-0.038	2	1.103	19
186			min	1.211	20	0.035	2	-0.031	12	-0.002	19	-0.932	13	0.162	2
187		J	max	143.148	19	0.035	2	-0.003	15	0	20	0	21	0	21
188			min	-1.168	20	-0.894	16	-0.031	12	-0.002	19	0	1	0	1
189	M60	I	max	344.744	18	1.474	17	0.122	12	0	20	0.212	2	0.738	17
190			min	-8.807	21	-0.158	2	0.003	15	-0.001	19	-0.83	17	-0.703	2
191		J	max	348.709	18	-0.158	2	0.122	12	0	20	0	21	0	21
192			min	-6.429	21	-1.124	18	0.003	15	-0.001	19	0	1	0	1
193	M61	I	max	334.628	19	1.73	18	-0.003	15	0.003	5	-0.229	2	1.862	18
194			min	-13.188	20	0.163	2	-0.118	12	0	20	-1.184	18	0.562	15

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
195		J	max	330.664	19	0.163	2	-0.003	15	0.003	5	0	21	0	21
196			min	-15.567	20	-0.871	17	-0.118	12	0	20	0	1	0	1

Envelope Member Section Stresses

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1	M1	1	max	0.659	5	0	20	0	15	0	5	0	21	0	19	0	20
2			min	0.069	21	0	19	0	3	0	21	0	3	0	20	0	19
3		2	max	0.657	5	0	20	0	15	0	20	0.003	19	0	15	0.004	5
4			min	0.068	21	0	19	0	3	-0.003	19	0	20	-0.004	3	0	15
5		3	max	0.655	5	0	20	0	15	0.001	20	0.007	19	-0.001	15	0.008	5
6			min	0.067	21	0	19	0	3	-0.007	19	-0.001	20	-0.008	3	0.001	15
7		4	max	0.653	5	0	20	0	15	0.001	20	0.01	19	-0.001	15	0.011	5
8			min	0.066	21	0	19	0	3	-0.01	19	-0.001	20	-0.011	3	0.001	15
9		5	max	0.651	5	0	20	0	15	0.002	20	0.013	19	-0.002	15	0.015	5
10			min	0.064	21	0	19	0	3	-0.013	19	-0.002	20	-0.015	3	0.002	15
11	M2	1	max	0.462	18	0	20	0	15	0	5	0	14	0	14	0	13
12			min	0.038	21	0	19	0	3	0	14	0	3	0	13	0	14
13		2	max	0.46	18	0	20	0	15	0.001	20	0.002	19	0	15	0.004	5
14			min	0.037	21	0	19	0	3	-0.002	19	-0.001	20	-0.004	3	0	15
15		3	max	0.458	18	0	20	0	15	0.001	20	0.004	19	-0.001	15	0.008	5
16			min	0.036	21	0	19	0	3	-0.004	19	-0.001	20	-0.008	3	0.001	15
17		4	max	0.456	18	0	20	0	15	0.002	20	0.006	19	-0.001	15	0.011	5
18			min	0.034	21	0	19	0	3	-0.006	19	-0.002	20	-0.011	3	0.001	15
19		5	max	0.454	18	0	20	0	15	0.002	20	0.008	19	-0.002	15	0.015	5
20			min	0.033	21	0	19	0	3	-0.008	19	-0.002	20	-0.015	3	0.002	15
21	M3	1	max	0.021	20	0	21	0.673	5	0	21	0	21	0	21	0	21
22			min	-0.029	19	0	1	0.074	14	0	1	0	1	0	1	0	1
23		2	max	0.009	20	0	21	0.336	5	0	21	0	21	8.029	5	-0.881	21
24			min	-0.02	19	0	1	0.037	14	0	1	0	1	0.881	14	-8.029	3
25		3	max	-0.001	14	0	21	0	21	0	21	0	21	10.705	5	-1.175	21
26			min	-0.013	3	0	1	0	1	0	1	0	1	1.175	14	-10.705	3
27		4	max	0.009	21	0	21	-0.037	21	0	21	0	21	8.029	5	-0.881	21
28			min	-0.02	18	0	1	-0.336	3	0	1	0	1	0.881	14	-8.029	3
29		5	max	0.021	21	0	21	-0.074	21	0	21	0	21	0	21	0	21
30			min	-0.029	18	0	1	-0.673	3	0	1	0	1	0	1	0	1
31	M4	1	max	0.015	21	0	21	0.656	5	0	21	0	21	0	21	0	21
32			min	-0.055	18	0	1	0.073	14	0	1	0	1	0	1	0	1
33		2	max	0.004	21	0	21	0.328	5	0	21	0	21	7.823	5	-0.87	21
34			min	-0.047	18	0	1	0.036	14	0	1	0	1	0.87	14	-7.823	3
35		3	max	-0.006	15	0	21	0	21	0	21	0	21	10.431	5	-1.16	21
36			min	-0.041	3	0	1	0	1	0	1	0	1	1.16	14	-10.431	3
37		4	max	0.004	20	0	21	-0.036	21	0	21	0	21	7.823	5	-0.87	21
38			min	-0.047	19	0	1	-0.328	3	0	1	0	1	0.87	14	-7.823	3
39		5	max	0.015	20	0	21	-0.073	21	0	21	0	21	0	21	0	21
40			min	-0.055	19	0	1	-0.656	3	0	1	0	1	0	1	0	1
41	M5	1	max	0.003	20	0.061	14	0.068	19	0	21	0	21	0	21	0	21
42			min	-0.011	19	-0.061	9	0	2	0	1	0	1	0	1	0	1
43		2	max	0.003	20	0.031	14	0.034	19	0.249	14	0.909	15	0.813	19	0	2
44			min	-0.011	19	-0.031	9	0	2	-0.249	9	-0.909	8	0	2	-0.813	1
45		3	max	0.003	20	0	21	0	21	0.331	14	1.212	15	1.084	19	0	2
46			min	-0.011	19	0	1	0	1	-0.331	9	-1.212	8	0	2	-1.084	1
47		4	max	0.003	20	0.031	15	0	2	0.249	14	0.909	15	0.813	19	0	2
48			min	-0.011	19	-0.031	8	-0.034	1	-0.249	9	-0.909	8	0	2	-0.813	1
49		5	max	0.003	20	0.061	15	0	2	0	21	0	21	0	21	0	21
50			min	-0.011	19	-0.061	8	-0.068	1	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
51	M6	1	max	-0.006	15	0.051	15	0.869	5	0	21	0	21	0	21	0	21
52			min	-0.075	12	-0.158	12	0.147	15	0	1	0	1	0	1	0	1
53		2	max	-0.006	15	0.047	15	0.865	5	0.031	15	0.364	12	1.623	5	-0.273	15
54			min	-0.075	12	-0.155	12	0.145	15	-0.099	12	-0.114	15	0.273	15	-1.623	3
55		3	max	-0.006	15	0.043	15	0.861	5	0.06	15	0.722	12	3.238	5	-0.542	15
56			min	-0.075	12	-0.152	12	0.142	15	-0.197	12	-0.219	15	0.542	15	-3.238	3
57		4	max	-0.006	15	0.04	15	0.857	5	0.086	15	1.073	12	4.846	5	-0.806	15
58			min	-0.075	12	-0.149	12	0.14	15	-0.293	12	-0.315	15	0.806	15	-4.846	3
59		5	max	-0.006	15	0.036	15	0.853	5	0.11	15	1.418	12	6.447	5	-1.066	15
60			min	-0.075	12	-0.147	12	0.138	15	-0.388	12	-0.404	15	1.066	15	-6.447	3
61	M7	1	max	-0.003	21	0.145	13	0.166	5	0.11	15	1.418	12	6.301	5	-1.042	15
62			min	-0.05	18	-0.014	14	0.01	14	-0.388	12	-0.404	15	1.042	15	-6.301	3
63		2	max	-0.003	21	0.134	13	0.117	13	0.246	9	0.839	14	7.356	5	-1.232	14
64			min	-0.05	18	0	14	0.007	14	-0.229	14	-0.901	9	1.232	14	-7.356	3
65		3	max	-0.003	21	0.124	13	0.069	13	0.539	13	0.768	14	8.032	5	-1.273	14
66			min	-0.05	18	0.015	14	0.004	14	-0.21	14	-1.971	13	1.273	14	-8.032	3
67		4	max	-0.003	21	0.123	5	0.026	9	0.84	13	0.562	14	8.331	5	-1.288	14
68			min	-0.05	18	0.016	15	-0.002	2	-0.154	14	-3.073	13	1.288	14	-8.331	3
69		5	max	-0.003	21	0.134	12	0.02	9	1.114	13	0.223	14	8.25	5	-1.279	14
70			min	-0.05	18	0.001	15	-0.047	2	-0.061	14	-4.075	13	1.279	14	-8.25	3
71	M8	1	max	0.273	19	0	20	0	5	0	13	0	14	0	20	0	19
72			min	0.012	20	0	19	0	15	0	14	0	13	0	19	0	20
73		2	max	0.271	19	0	20	0	5	0	20	0.003	19	0.001	5	0	15
74			min	0.011	20	0	19	0	15	-0.003	19	0	20	0	15	-0.001	3
75		3	max	0.269	19	0	20	0	5	0.001	20	0.007	19	0.002	5	0	15
76			min	0.01	20	0	19	0	15	-0.007	19	-0.001	20	0	15	-0.002	3
77		4	max	0.266	19	0	20	0	5	0.001	20	0.01	19	0.003	5	0	15
78			min	0.009	20	0	19	0	15	-0.01	19	-0.001	20	0	15	-0.003	3
79		5	max	0.264	19	0	20	0	5	0.002	20	0.013	19	0.004	5	0	15
80			min	0.007	20	0	19	0	15	-0.013	19	-0.002	20	0	15	-0.004	3
81	M9	1	max	0.28	19	0	20	0	5	0	19	0	20	0	13	0	14
82			min	0.014	20	0	19	0	15	0	20	0	19	0	14	0	13
83		2	max	0.278	19	0	20	0	5	0.001	20	0.002	19	0.001	5	0	15
84			min	0.012	20	0	19	0	15	-0.002	19	-0.001	20	0	15	-0.001	3
85		3	max	0.276	19	0	20	0	5	0.001	20	0.004	19	0.002	5	0	15
86			min	0.011	20	0	19	0	15	-0.004	19	-0.001	20	0	15	-0.002	3
87		4	max	0.274	19	0	20	0	5	0.002	20	0.006	19	0.003	5	0	15
88			min	0.01	20	0	19	0	15	-0.006	19	-0.002	20	0	15	-0.003	3
89		5	max	0.272	19	0	20	0	5	0.002	20	0.008	19	0.004	5	0	15
90			min	0.009	20	0	19	0	15	-0.008	19	-0.002	20	0	15	-0.004	3
91	M10	1	max	0.001	21	-0.018	14	-0.032	14	1.114	13	0.223	14	8.328	5	-1.289	14
92			min	-0.027	18	-0.11	3	-0.29	3	-0.061	14	-4.075	13	1.289	14	-8.328	3
93		2	max	0.001	21	-0.006	14	-0.041	14	0.867	13	0.321	14	6.384	5	-1.049	14
94			min	-0.027	18	-0.115	13	-0.304	3	-0.088	14	-3.172	13	1.049	14	-6.384	3
95		3	max	0.001	21	0.007	14	-0.049	14	0.599	13	0.317	14	4.348	5	-0.755	14
96			min	-0.027	18	-0.125	13	-0.318	3	-0.087	14	-2.191	13	0.755	14	-4.348	3
97		4	max	0.001	21	0.019	14	-0.058	14	0.31	13	0.21	14	2.22	5	-0.405	14
98			min	-0.027	18	-0.134	13	-0.332	3	-0.057	14	-1.134	13	0.405	14	-2.22	3
99		5	max	0.001	21	0.032	14	-0.066	14	0	21	0	21	0	21	0	21
100			min	-0.027	18	-0.144	13	-0.346	3	0	1	0	1	0	1	0	1
101	M11	1	max	-0.007	14	0.168	5	-0.002	15	0.962	13	-0.088	14	0.718	12	-0.019	15
102			min	-0.117	13	0.025	15	-0.033	12	0.088	14	-0.962	13	0.045	15	-0.295	12
103		2	max	-0.003	14	0.154	5	-0.002	15	1.142	5	-0.122	14	0.384	12	-0.009	15
104			min	-0.096	13	0.023	15	-0.033	12	0.122	14	-1.142	3	0.022	15	-0.158	12
105		3	max	0	14	0.141	5	-0.002	15	1.315	5	-0.153	14	0.051	12	0.001	15

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
106			min	-0.075	13	0.021	15	-0.033	12	0.153	14	-1.315	3	-0.001	15	-0.021	12
107		4	max	0.004	14	0.127	5	-0.002	15	1.472	5	-0.181	14	-0.025	15	0.116	12
108			min	-0.055	13	0.019	15	-0.033	12	0.181	14	-1.472	3	-0.283	12	0.01	15
109		5	max	0.007	14	0.114	5	-0.002	15	1.613	5	-0.207	14	-0.048	15	0.253	12
110			min	-0.034	13	0.016	15	-0.033	12	0.207	14	-1.613	3	-0.617	12	0.02	15
111	M12	1	max	-0.047	15	-0.015	14	0.044	12	-0.395	15	2.635	5	-0.126	15	0.438	12
112			min	-0.337	3	-0.114	3	0.005	15	-2.635	3	0.395	15	-1.065	12	0.052	15
113		2	max	-0.044	15	-0.013	14	0.044	12	-0.417	15	2.762	5	-0.074	15	0.253	12
114			min	-0.316	3	-0.101	3	0.005	15	-2.762	3	0.417	15	-0.615	12	0.03	15
115		3	max	-0.04	15	-0.011	14	0.044	12	-0.437	15	2.872	5	-0.022	15	0.068	5
116			min	-0.294	3	-0.087	3	0.005	15	-2.872	3	0.437	15	-0.166	3	0.009	15
117		4	max	-0.037	15	-0.009	14	0.044	12	-0.454	15	2.967	5	0.285	12	-0.012	15
118			min	-0.272	3	-0.074	3	0.005	15	-2.967	3	0.454	15	0.03	15	-0.117	12
119		5	max	-0.033	15	-0.007	14	0.044	12	-0.468	15	3.045	5	0.736	12	-0.033	15
120			min	-0.25	3	-0.06	3	0.005	15	-3.045	3	0.468	15	0.081	15	-0.302	12
121	M28	1	max	0.002	14	0.112	5	-0.004	15	1.619	5	-0.208	14	0.824	12	-0.032	15
122			min	-0.052	13	0.016	15	-0.039	12	0.208	14	-1.619	3	0.077	15	-0.338	12
123		2	max	0.005	14	0.099	5	-0.004	15	1.742	5	-0.231	14	0.428	12	-0.017	15
124			min	-0.032	13	0.014	15	-0.039	12	0.231	14	-1.742	3	0.041	15	-0.176	12
125		3	max	0.01	8	0.085	5	-0.004	15	1.85	5	-0.251	14	0.032	5	-0.002	15
126			min	-0.011	13	0.012	15	-0.039	12	0.251	14	-1.85	3	0.004	15	-0.013	3
127		4	max	0.021	12	0.071	5	-0.004	15	1.942	5	-0.268	14	-0.032	15	0.15	12
128			min	-0.002	15	0.009	15	-0.039	12	0.268	14	-1.942	3	-0.365	12	0.013	15
129		5	max	0.042	12	0.058	5	-0.004	15	2.017	5	-0.283	14	-0.068	15	0.312	12
130			min	0.002	15	0.007	15	-0.039	12	0.283	14	-2.017	3	-0.761	12	0.028	15
131	M30	1	max	-0.03	15	-0.006	14	0.038	12	-0.467	15	3.04	5	-0.078	15	0.323	12
132			min	-0.227	3	-0.06	3	0.004	15	-3.04	3	0.467	15	-0.786	12	0.032	15
133		2	max	-0.027	15	-0.004	14	0.038	12	-0.479	15	3.102	5	-0.039	15	0.163	12
134			min	-0.205	3	-0.047	3	0.004	15	-3.102	3	0.479	15	-0.398	12	0.016	15
135		3	max	-0.023	15	-0.002	14	0.038	12	-0.488	15	3.149	5	0	15	0.004	12
136			min	-0.183	3	-0.033	3	0.004	15	-3.149	3	0.488	15	-0.01	12	0	15
137		4	max	-0.02	15	0	14	0.038	12	-0.494	15	3.18	5	0.378	12	-0.016	15
138			min	-0.162	3	-0.02	13	0.004	15	-3.18	3	0.494	15	0.039	15	-0.155	12
139		5	max	-0.016	15	0.002	14	0.038	12	-0.498	15	3.195	5	0.765	12	-0.032	15
140			min	-0.14	3	-0.007	13	0.004	15	-3.195	3	0.498	15	0.078	15	-0.314	12
141	M31	1	max	0.019	12	0.056	5	-0.003	15	2.021	5	-0.283	14	0.775	12	-0.028	15
142			min	0	15	0.007	15	-0.038	12	0.283	14	-2.021	3	0.068	15	-0.318	12
143		2	max	0.04	12	0.042	5	-0.003	15	2.078	5	-0.295	14	0.391	12	-0.014	15
144			min	0.003	15	0.004	15	-0.038	12	0.295	14	-2.078	3	0.034	15	-0.161	12
145		3	max	0.061	12	0.029	12	-0.003	15	2.12	5	-0.304	14	0.006	12	0	15
146			min	0.007	15	0.002	15	-0.038	12	0.304	14	-2.12	3	0	15	-0.003	12
147		4	max	0.082	12	0.016	12	-0.003	15	2.146	5	-0.31	14	-0.034	15	0.155	12
148			min	0.01	15	0	15	-0.038	12	0.31	14	-2.146	3	-0.379	12	0.014	15
149		5	max	0.103	5	0.003	12	-0.003	15	2.155	5	-0.314	14	-0.068	15	0.313	12
150			min	0.014	15	-0.002	15	-0.038	12	0.314	14	-2.155	3	-0.763	12	0.028	15
151	M33	1	max	-0.013	15	0.003	8	0.039	12	-0.497	15	3.191	5	-0.083	15	0.332	12
152			min	-0.116	3	-0.007	13	0.004	15	-3.191	3	0.497	15	-0.807	12	0.034	15
153		2	max	-0.01	15	0.009	12	0.039	12	-0.498	15	3.19	5	-0.042	15	0.168	12
154			min	-0.094	3	0	15	0.004	15	-3.19	3	0.498	15	-0.408	12	0.017	15
155		3	max	-0.006	15	0.022	12	0.039	12	-0.496	15	3.173	5	-0.001	15	0.004	12
156			min	-0.073	12	0.003	15	0.004	15	-3.173	3	0.496	15	-0.01	12	0	15
157		4	max	-0.003	15	0.035	12	0.039	12	-0.491	15	3.14	5	0.389	12	-0.016	15
158			min	-0.052	12	0.005	15	0.004	15	-3.14	3	0.491	15	0.04	15	-0.16	12
159		5	max	0.001	15	0.049	5	0.039	12	-0.484	15	3.09	5	0.788	12	-0.033	15
160			min	-0.031	12	0.007	15	0.004	15	-3.09	3	0.484	15	0.081	15	-0.323	12

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
161	M35	1	max	0.081	5	0.002	14	-0.003	15	2.157	5	-0.314	14	0.778	12	-0.028	15
162			min	0.012	15	-0.003	9	-0.038	12	0.314	14	-2.157	3	0.069	15	-0.32	12
163		2	max	0.102	5	-0.001	14	-0.003	15	2.148	5	-0.315	14	0.392	12	-0.014	15
164			min	0.016	15	-0.016	13	-0.038	12	0.315	14	-2.148	3	0.035	15	-0.161	12
165		3	max	0.124	5	-0.003	14	-0.003	15	2.123	5	-0.313	14	0.006	12	0	15
166			min	0.019	15	-0.029	13	-0.038	12	0.313	14	-2.123	3	0.001	15	-0.002	12
167		4	max	0.146	5	-0.005	14	-0.003	15	2.081	5	-0.308	14	-0.034	15	0.156	12
168			min	0.023	15	-0.042	3	-0.038	12	0.308	14	-2.081	3	-0.38	12	0.014	15
169		5	max	0.168	5	-0.007	14	-0.003	15	2.024	5	-0.301	14	-0.068	15	0.315	12
170			min	0.026	15	-0.056	3	-0.038	12	0.301	14	-2.024	3	-0.766	12	0.028	15
171	M37	1	max	0.004	9	0.05	5	0.039	12	-0.484	15	3.088	5	-0.082	15	0.328	12
172			min	-0.006	12	0.007	15	0.004	15	-3.088	3	0.484	15	-0.798	12	0.034	15
173		2	max	0.02	13	0.063	5	0.039	12	-0.474	15	3.022	5	-0.041	15	0.165	12
174			min	0	14	0.01	15	0.004	15	-3.022	3	0.474	15	-0.402	12	0.017	15
175		3	max	0.041	13	0.077	5	0.039	12	-0.461	15	2.94	5	0	15	0.002	12
176			min	0.004	14	0.012	15	0.004	15	-2.94	3	0.461	15	-0.005	12	0	15
177		4	max	0.061	5	0.09	5	0.039	12	-0.446	15	2.842	5	0.391	12	-0.017	15
178			min	0.008	14	0.014	15	0.004	15	-2.842	3	0.446	15	0.04	15	-0.161	12
179		5	max	0.083	5	0.104	5	0.039	12	-0.428	15	2.728	5	0.788	12	-0.033	15
180			min	0.011	14	0.016	15	0.004	15	-2.728	3	0.428	15	0.081	15	-0.323	12
181	M39	1	max	0.145	5	-0.008	14	-0.003	15	2.025	5	-0.301	14	0.785	12	-0.029	15
182			min	0.025	15	-0.059	3	-0.038	12	0.301	14	-2.025	3	0.07	15	-0.323	12
183		2	max	0.167	5	-0.01	14	-0.003	15	1.948	5	-0.291	14	0.4	12	-0.015	15
184			min	0.028	15	-0.073	3	-0.038	12	0.291	14	-1.948	3	0.036	15	-0.164	12
185		3	max	0.189	5	-0.012	14	-0.003	15	1.855	5	-0.278	14	0.014	12	-0.001	15
186			min	0.032	15	-0.086	3	-0.038	12	0.278	14	-1.855	3	0.001	15	-0.006	12
187		4	max	0.211	5	-0.014	14	-0.003	15	1.746	5	-0.262	14	-0.033	15	0.152	12
188			min	0.035	15	-0.1	3	-0.038	12	0.262	14	-1.746	3	-0.371	12	0.014	15
189		5	max	0.233	5	-0.016	14	-0.003	15	1.621	5	-0.244	14	-0.067	15	0.311	12
190			min	0.039	15	-0.113	3	-0.038	12	0.244	14	-1.621	3	-0.756	12	0.028	15
191	M41	1	max	0.108	5	0.107	5	0.039	12	-0.428	15	2.727	5	-0.083	15	0.331	12
192			min	0.018	14	0.017	15	0.004	15	-2.727	3	0.428	15	-0.807	12	0.034	15
193		2	max	0.129	5	0.121	5	0.039	12	-0.407	15	2.593	5	-0.042	15	0.169	12
194			min	0.021	14	0.019	15	0.004	15	-2.593	3	0.407	15	-0.411	12	0.017	15
195		3	max	0.151	5	0.134	5	0.039	12	-0.383	15	2.444	5	-0.001	15	0.006	12
196			min	0.025	14	0.021	15	0.004	15	-2.444	3	0.383	15	-0.015	12	0.001	15
197		4	max	0.173	5	0.148	5	0.039	12	-0.357	15	2.278	5	0.381	12	-0.016	15
198			min	0.029	14	0.023	15	0.004	15	-2.278	3	0.357	15	0.039	15	-0.157	12
199		5	max	0.195	5	0.162	5	0.039	12	-0.329	15	2.096	5	0.777	12	-0.033	15
200			min	0.032	14	0.025	15	0.004	15	-2.096	3	0.329	15	0.08	15	-0.319	12
201	M43	1	max	0.209	5	-0.017	14	-0.003	15	1.622	5	-0.244	14	0.872	12	-0.032	15
202			min	0.036	14	-0.117	3	-0.038	12	0.244	14	-1.622	3	0.078	15	-0.358	12
203		2	max	0.231	5	-0.019	14	-0.003	15	1.477	5	-0.223	14	0.487	12	-0.018	15
204			min	0.039	14	-0.13	3	-0.038	12	0.223	14	-1.477	3	0.044	15	-0.2	12
205		3	max	0.253	5	-0.021	14	-0.003	15	1.316	5	-0.199	14	0.102	12	-0.004	15
206			min	0.043	14	-0.144	3	-0.038	12	0.199	14	-1.316	3	0.01	15	-0.042	12
207		4	max	0.275	5	-0.024	14	-0.003	15	1.139	5	-0.173	14	-0.024	15	0.116	12
208			min	0.046	14	-0.158	3	-0.038	12	0.173	14	-1.139	3	-0.282	12	0.01	15
209		5	max	0.296	5	-0.026	14	-0.003	15	0.946	5	-0.144	14	-0.058	15	0.274	12
210			min	0.05	14	-0.171	3	-0.038	12	0.144	14	-0.946	3	-0.667	12	0.024	15
211	M45	1	max	0.22	5	0.166	5	0.039	12	-0.328	15	2.096	5	-0.091	15	0.367	12
212			min	0.038	15	0.026	15	0.004	15	-2.096	3	0.328	15	-0.894	12	0.037	15
213		2	max	0.242	5	0.18	5	0.039	12	-0.296	15	1.893	5	-0.05	15	0.204	12
214			min	0.041	15	0.028	15	0.004	15	-1.893	3	0.296	15	-0.497	12	0.021	15
215		3	max	0.264	5	0.193	5	0.039	12	-0.262	15	1.674	5	-0.009	15	0.041	12

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
216			min	0.045	15	0.03	15	0.004	15	-1.674	3	0.262	15	-0.101	12	0.004	15
217		4	max	0.286	5	0.207	5	0.039	12	-0.225	15	1.439	5	0.296	12	-0.013	15
218			min	0.048	15	0.033	15	0.004	15	-1.439	3	0.225	15	0.032	15	-0.122	12
219		5	max	0.308	5	0.221	5	0.039	12	-0.186	15	1.188	5	0.693	12	-0.03	15
220			min	0.052	15	0.035	15	0.004	15	-1.188	3	0.186	15	0.073	15	-0.284	12
221	M47	1	max	0.264	5	-0.026	14	-0.004	15	0.946	5	-0.143	14	1.576	12	-0.06	15
222			min	0.042	14	-0.174	3	-0.038	12	0.143	14	-0.946	3	0.146	15	-0.647	12
223		2	max	0.286	5	-0.028	14	-0.004	15	0.733	5	-0.111	14	1.182	12	-0.045	15
224			min	0.045	14	-0.188	3	-0.038	12	0.111	14	-0.733	3	0.109	15	-0.485	12
225		3	max	0.307	5	-0.031	14	-0.004	15	0.505	5	-0.077	14	0.788	12	-0.03	15
226			min	0.049	14	-0.202	3	-0.038	12	0.077	14	-0.505	3	0.073	15	-0.324	12
227		4	max	0.329	5	-0.033	14	-0.004	15	0.26	5	-0.04	14	0.394	12	-0.015	15
228			min	0.052	14	-0.215	3	-0.038	12	0.04	14	-0.26	3	0.036	15	-0.162	12
229		5	max	0.351	5	-0.035	14	-0.004	15	0	21	0	21	0	21	0	21
230			min	0.056	14	-0.229	3	-0.038	12	0	1	0	1	0	1	0	1
231	M49	1	max	0.342	5	0.226	5	0.039	12	-0.185	15	1.188	5	-0.155	15	0.653	12
232			min	0.056	15	0.035	15	0.004	15	-1.188	3	0.185	15	-1.591	12	0.064	15
233		2	max	0.364	5	0.24	5	0.039	12	-0.143	15	0.915	5	-0.116	15	0.49	12
234			min	0.059	15	0.037	15	0.004	15	-0.915	3	0.143	15	-1.193	12	0.048	15
235		3	max	0.386	5	0.253	5	0.039	12	-0.098	15	0.626	5	-0.077	15	0.327	12
236			min	0.063	15	0.04	15	0.004	15	-0.626	3	0.098	15	-0.796	12	0.032	15
237		4	max	0.408	5	0.267	5	0.039	12	-0.05	15	0.321	5	-0.039	15	0.163	12
238			min	0.066	15	0.042	15	0.004	15	-0.321	3	0.05	15	-0.398	12	0.016	15
239		5	max	0.43	5	0.28	5	0.039	12	0	21	0	21	0	21	0	21
240			min	0.07	15	0.044	15	0.004	15	0	1	0	1	0	1	0	1
241	M25	1	max	0.063	12	0.268	13	0.038	12	-0.087	14	0.955	13	-0.11	15	0.463	12
242			min	0.006	15	0.017	14	0.004	15	-0.955	13	0.087	14	-1.127	12	0.045	15
243		2	max	0.063	12	0.275	13	0.038	12	-0.07	14	0.725	13	-0.082	15	0.347	12
244			min	0.006	15	0.021	14	0.004	15	-0.725	13	0.07	14	-0.845	12	0.034	15
245		3	max	0.063	12	0.282	13	0.038	12	-0.051	14	0.489	13	-0.055	15	0.231	12
246			min	0.006	15	0.026	14	0.004	15	-0.489	13	0.051	14	-0.563	12	0.023	15
247		4	max	0.063	12	0.289	13	0.038	12	-0.027	14	0.248	13	-0.027	15	0.116	12
248			min	0.006	15	0.03	14	0.004	15	-0.248	13	0.027	14	-0.282	12	0.011	15
249		5	max	0.063	12	0.296	13	0.038	12	0	21	0	21	0	21	0	21
250			min	0.006	15	0.034	14	0.004	15	0	1	0	1	0	1	0	1
251	M26	1	max	-0.006	15	-0.109	15	-0.004	15	2.643	5	-0.396	15	1.143	12	-0.044	15
252			min	-0.063	12	-0.767	3	-0.039	12	0.396	15	-2.643	3	0.108	15	-0.469	12
253		2	max	-0.006	15	-0.113	15	-0.004	15	1.991	5	-0.302	15	0.857	12	-0.033	15
254			min	-0.063	12	-0.774	3	-0.039	12	0.302	15	-1.991	3	0.081	15	-0.352	12
255		3	max	-0.006	15	-0.117	15	-0.004	15	1.333	5	-0.205	15	0.571	12	-0.022	15
256			min	-0.063	12	-0.781	3	-0.039	12	0.205	15	-1.333	3	0.054	15	-0.235	12
257		4	max	-0.006	15	-0.121	15	-0.004	15	0.67	5	-0.104	15	0.286	12	-0.011	15
258			min	-0.063	12	-0.788	3	-0.039	12	0.104	15	-0.67	3	0.027	15	-0.117	12
259		5	max	-0.006	15	-0.125	15	-0.004	15	0	21	0	21	0	21	0	21
260			min	-0.063	12	-0.795	3	-0.039	12	0	1	0	1	0	1	0	1
261	M27	1	max	0.004	5	0.052	12	0.019	12	-0.016	15	0.184	12	-0.054	15	0.271	12
262			min	0.001	14	0.005	15	0.001	15	-0.184	12	0.016	15	-0.56	12	0.026	15
263		2	max	0.004	5	0.052	12	0.02	12	-0.007	15	0.088	12	-0.04	15	0.157	12
264			min	0.001	14	0.005	15	0.001	15	-0.088	12	0.007	15	-0.323	12	0.02	15
265		3	max	0.004	5	0.052	12	0.021	12	0.008	5	-0.001	21	-0.018	14	0.038	5
266			min	0.001	14	0.005	15	0.002	15	0.001	21	-0.008	3	-0.078	3	0.009	14
267		4	max	0.004	5	0.052	12	0.022	12	0.104	12	-0.01	15	0.186	12	-0.004	15
268			min	0.001	14	0.005	15	0.003	15	0.01	15	-0.104	12	0.008	15	-0.09	12
269		5	max	0.004	5	0.052	12	0.023	12	0.201	12	-0.019	15	0.458	12	-0.021	15
270			min	0.001	14	0.005	15	0.003	15	0.019	15	-0.201	12	0.043	15	-0.222	12

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
271	M29	1	max	-0.001	14	0.017	12	0.035	12	-0.005	15	0.061	12	-0.077	15	0.428	12
272			min	-0.004	3	0.002	15	0.002	15	-0.061	12	0.005	15	-0.883	12	0.037	15
273		2	max	-0.001	14	0.017	12	0.036	12	-0.002	15	0.029	12	-0.044	15	0.217	12
274			min	-0.004	3	0.002	15	0.003	15	-0.029	12	0.002	15	-0.447	12	0.021	15
275		3	max	-0.001	14	0.017	12	0.037	12	0.002	5	-0.001	2	0.008	2	0.003	8
276			min	-0.004	3	0.002	15	0.004	15	0.001	2	-0.002	3	-0.007	8	-0.004	2
277		4	max	-0.001	14	0.017	12	0.038	12	0.033	12	-0.004	15	0.461	12	-0.021	15
278			min	-0.004	3	0.002	15	0.004	15	0.004	15	-0.033	12	0.043	15	-0.223	12
279		5	max	-0.001	14	0.017	12	0.039	12	0.064	12	-0.007	15	0.933	12	-0.047	15
280			min	-0.004	3	0.002	15	0.005	15	0.007	15	-0.064	12	0.097	15	-0.452	12
281	M32	1	max	0.001	5	0.018	12	0.037	12	-0.006	15	0.064	12	-0.084	15	0.457	12
282			min	0	14	0.002	15	0.003	15	-0.064	12	0.006	15	-0.943	12	0.041	15
283		2	max	0.001	5	0.018	12	0.038	12	-0.003	15	0.032	12	-0.049	15	0.235	12
284			min	0	14	0.002	15	0.003	15	-0.032	12	0.003	15	-0.484	12	0.024	15
285		3	max	0.001	5	0.018	12	0.039	12	0.001	8	0	2	-0.001	2	0.006	5
286			min	0	14	0.002	15	0.004	15	0	2	-0.001	8	-0.013	3	0.001	2
287		4	max	0.001	5	0.018	12	0.04	12	0.033	12	-0.004	15	0.47	12	-0.021	15
288			min	0	14	0.002	15	0.004	15	0.004	15	-0.033	12	0.043	15	-0.228	12
289		5	max	0.001	5	0.018	12	0.04	12	0.065	12	-0.007	15	0.965	12	-0.048	15
290			min	0	14	0.002	15	0.005	15	0.007	15	-0.065	12	0.099	15	-0.468	12
291	M34	1	max	0	14	0.018	12	0.037	12	-0.006	15	0.064	12	-0.084	15	0.459	12
292			min	0	3	0.002	15	0.003	15	-0.064	12	0.006	15	-0.947	12	0.041	15
293		2	max	0	14	0.018	12	0.038	12	-0.003	15	0.031	12	-0.049	15	0.235	12
294			min	0	3	0.002	15	0.003	15	-0.031	12	0.003	15	-0.485	12	0.024	15
295		3	max	0	14	0.018	12	0.039	12	0.001	5	0	2	0	2	0.005	8
296			min	0	3	0.002	15	0.004	15	0	2	-0.001	3	-0.011	8	0	2
297		4	max	0	14	0.018	12	0.04	12	0.033	12	-0.004	15	0.476	12	-0.021	15
298			min	0	3	0.002	15	0.004	15	0.004	15	-0.033	12	0.043	15	-0.231	12
299		5	max	0	14	0.018	12	0.041	12	0.065	12	-0.007	15	0.974	12	-0.049	15
300			min	0	3	0.002	15	0.005	15	0.007	15	-0.065	12	0.1	15	-0.472	12
301	M36	1	max	0	5	0.018	12	0.037	12	-0.006	15	0.064	12	-0.085	15	0.462	12
302			min	0	14	0.002	15	0.003	15	-0.064	12	0.006	15	-0.954	12	0.041	15
303		2	max	0	5	0.018	12	0.038	12	-0.003	15	0.031	12	-0.049	15	0.237	12
304			min	0	14	0.002	15	0.003	15	-0.031	12	0.003	15	-0.488	12	0.024	15
305		3	max	0	5	0.018	12	0.039	12	0.001	8	0	2	0	2	0.005	5
306			min	0	14	0.002	15	0.004	15	0	2	-0.001	8	-0.011	3	0	2
307		4	max	0	5	0.018	12	0.04	12	0.033	12	-0.004	15	0.479	12	-0.021	15
308			min	0	14	0.002	15	0.004	15	0.004	15	-0.033	12	0.044	15	-0.232	12
309		5	max	0	5	0.018	12	0.041	12	0.065	12	-0.007	15	0.98	12	-0.049	15
310			min	0	14	0.002	15	0.005	15	0.007	15	-0.065	12	0.101	15	-0.475	12
311	M38	1	max	0	5	0.018	12	0.039	12	-0.006	15	0.066	12	-0.089	15	0.485	12
312			min	0	2	0.002	15	0.003	15	-0.066	12	0.006	15	-1.001	12	0.043	15
313		2	max	0	5	0.018	12	0.04	12	-0.003	15	0.033	12	-0.051	15	0.248	12
314			min	0	2	0.002	15	0.003	15	-0.033	12	0.003	15	-0.512	12	0.025	15
315		3	max	0	5	0.018	12	0.041	12	0.001	13	0	2	0	2	0.005	8
316			min	0	2	0.002	15	0.004	15	0	2	-0.001	13	-0.01	8	0	2
317		4	max	0	5	0.018	12	0.042	12	0.034	12	-0.004	15	0.503	12	-0.022	15
318			min	0	2	0.002	15	0.005	15	0.004	15	-0.034	12	0.046	15	-0.244	12
319		5	max	0	5	0.018	12	0.043	12	0.068	12	-0.007	15	1.028	12	-0.051	15
320			min	0	2	0.002	15	0.005	15	0.007	15	-0.068	12	0.105	15	-0.498	12
321	M40	1	max	0	2	0.025	12	0.054	12	-0.009	15	0.09	12	-0.124	15	0.67	12
322			min	0	12	0.003	15	0.004	15	-0.09	12	0.009	15	-1.381	12	0.06	15
323		2	max	0	2	0.025	12	0.055	12	-0.004	15	0.045	12	-0.069	15	0.34	12
324			min	0	12	0.003	15	0.005	15	-0.045	12	0.004	15	-0.702	12	0.034	15
325		3	max	0	2	0.025	12	0.056	12	0.001	9	0	2	0	2	0.006	5

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
326			min	0	12	0.003	15	0.005	15	0	2	-0.001	9	-0.011	3	0	2
327		4	max	0	2	0.025	12	0.057	12	0.046	12	-0.005	15	0.691	12	-0.03	15
328			min	0	12	0.003	15	0.006	15	0.005	15	-0.046	12	0.063	15	-0.335	12
329		5	max	0	2	0.025	12	0.058	12	0.092	12	-0.01	15	1.406	12	-0.068	15
330			min	0	12	0.003	15	0.006	15	0.01	15	-0.092	12	0.139	15	-0.682	12
331	M42	1	max	0.298	18	0.002	18	0	12	0	21	0	21	0	21	0	21
332			min	-0.022	21	0	2	0	15	0	1	0	1	0	1	0	1
333		2	max	0.297	18	0.001	18	0	12	0.013	18	0	2	0.03	18	-0.004	2
334			min	-0.022	21	0	2	0	15	0	2	-0.013	18	0.003	2	-0.037	18
335		3	max	0.295	18	0	2	0	12	0.014	18	-0.001	2	0.035	18	-0.008	2
336			min	-0.023	21	-0.001	17	0	15	0.001	2	-0.014	18	0.006	2	-0.043	18
337		4	max	0.294	18	0	2	0	12	0.002	18	0.001	21	0.014	18	0	21
338			min	-0.024	21	-0.002	17	0	15	-0.001	21	-0.002	18	0	21	-0.017	18
339		5	max	0.293	18	0	2	0	12	0.002	2	0.026	17	0.013	2	0.061	17
340			min	-0.024	21	-0.004	17	0	15	-0.026	17	-0.002	2	-0.05	17	-0.016	2
341	M44	1	max	0.305	19	0.002	17	0	19	0	21	0	21	0	21	0	21
342			min	-0.018	20	0	2	0	15	0	1	0	1	0	1	0	1
343		2	max	0.304	19	0.001	17	0	19	0.013	9	0.001	2	0.027	19	0	2
344			min	-0.019	20	0	2	0	15	-0.001	2	-0.013	9	0	2	-0.033	19
345		3	max	0.303	19	0	2	0	19	0.013	9	0.002	2	0.028	19	-0.001	2
346			min	-0.019	20	-0.001	18	0	15	-0.002	2	-0.013	9	0.001	2	-0.034	19
347		4	max	0.302	19	0	2	0	19	0.001	15	0.003	12	0.003	19	0.002	20
348			min	-0.02	20	-0.002	18	0	15	-0.003	12	-0.001	15	-0.001	20	-0.004	19
349		5	max	0.301	19	0	2	0	19	-0.003	2	0.03	12	0.001	2	0.065	16
350			min	-0.021	20	-0.004	18	0	15	-0.03	12	0.003	2	-0.053	16	-0.001	2
351	M46	1	max	0.518	5	0.002	16	0	5	0	21	0	21	0	21	0	21
352			min	0.057	15	0	2	0	15	0	1	0	1	0	1	0	1
353		2	max	0.517	5	0.001	16	0	5	0.012	16	0.002	2	0.028	18	-0.002	2
354			min	0.056	15	0	2	0	15	-0.002	2	-0.012	16	0.002	2	-0.034	18
355		3	max	0.516	5	0	2	0	5	0.012	16	0.003	2	0.03	18	-0.004	2
356			min	0.056	15	-0.001	19	0	15	-0.003	2	-0.012	16	0.003	2	-0.037	18
357		4	max	0.515	5	0	2	0	5	-0.001	20	0.007	5	0.007	18	-0.001	21
358			min	0.055	15	-0.002	19	0	15	-0.007	3	0.001	20	0.001	21	-0.008	18
359		5	max	0.514	5	0	2	0	5	-0.006	2	0.034	5	0.006	2	0.061	17
360			min	0.055	15	-0.004	19	0	15	-0.034	3	0.006	2	-0.049	17	-0.008	2
361	M48	1	max	0.285	18	0.002	19	0	15	0	21	0	21	0	21	0	21
362			min	0.014	21	0	2	0	3	0	1	0	1	0	1	0	1
363		2	max	0.286	18	0.001	19	0	15	0.015	5	-0.001	2	0.025	17	0.002	2
364			min	0.015	21	0	2	0	3	0.001	2	-0.015	3	-0.002	2	-0.031	17
365		3	max	0.287	18	0	2	0	15	0.017	5	-0.003	2	0.025	17	0.005	2
366			min	0.015	21	-0.001	16	0	3	0.003	2	-0.017	3	-0.004	2	-0.03	17
367		4	max	0.288	18	0	2	0	15	0.006	5	-0.001	20	-0.001	21	0.009	18
368			min	0.016	21	-0.002	16	0	3	0.001	20	-0.006	3	-0.008	18	0.001	21
369		5	max	0.289	18	0	2	0	15	0.006	2	0.023	16	-0.007	2	0.075	18
370			min	0.016	21	-0.004	16	0	3	-0.023	16	-0.006	2	-0.061	18	0.009	2
371	M50	1	max	0.162	19	0.002	13	0	12	0	21	0	21	0	21	0	21
372			min	0.005	20	0	2	0	15	0	1	0	1	0	1	0	1
373		2	max	0.161	19	0.001	13	0	12	0.013	9	0	2	0.028	19	-0.002	2
374			min	0.004	20	0	2	0	15	0	2	-0.013	9	0.001	2	-0.034	19
375		3	max	0.16	19	0	2	0	12	0.013	9	0	2	0.03	19	-0.003	2
376			min	0.004	20	-0.001	8	0	15	0	2	-0.013	9	0.003	2	-0.036	19
377		4	max	0.159	19	0	2	0	12	0	15	0.001	12	0.006	19	-0.001	20
378			min	0.003	20	-0.002	8	0	15	-0.001	12	0	15	0.001	20	-0.007	19
379		5	max	0.158	19	0	2	0	12	-0.001	2	0.027	12	0.005	2	0.061	16
380			min	0.002	20	-0.004	8	0	15	-0.027	12	0.001	2	-0.05	16	-0.007	2

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
381	M51	1	max	0.233	19	0.002	8	0	15	0	21	0	21	0	21	0	21
382			min	0.011	20	0	2	0	12	0	1	0	1	0	1	0	1
383		2	max	0.234	19	0.001	8	0	15	0.013	12	0	2	0.025	16	0.002	2
384			min	0.012	20	0	2	0	12	0	2	-0.013	12	-0.001	2	-0.031	16
385		3	max	0.235	19	0	2	0	15	0.014	12	0	2	0.025	16	0.003	2
386			min	0.012	20	-0.001	13	0	12	0	2	-0.014	12	-0.003	2	-0.031	16
387		4	max	0.236	19	0	2	0	15	0.001	12	0	15	0	20	0.008	19
388			min	0.013	20	-0.002	13	0	12	0	15	-0.001	12	-0.006	19	0	20
389		5	max	0.237	19	0	2	0	15	0.001	2	0.025	9	-0.006	2	0.073	19
390			min	0.014	20	-0.004	13	0	12	-0.025	9	-0.001	2	-0.059	19	0.007	2
391	M52	1	max	0.36	19	0.002	17	0	12	0	21	0	21	0	21	0	21
392			min	-0.01	20	0	2	0	15	0	1	0	1	0	1	0	1
393		2	max	0.359	19	0.001	17	0	12	0.012	17	0.003	2	0.026	19	0	2
394			min	-0.011	20	0	2	0	15	-0.003	2	-0.012	17	0	2	-0.032	19
395		3	max	0.358	19	0	2	0	12	0.012	17	0.007	2	0.027	19	-0.001	2
396			min	-0.012	20	-0.001	18	0	15	-0.007	2	-0.012	17	0	2	-0.033	19
397		4	max	0.357	19	0	2	0	12	0	21	0.015	18	0.002	19	0.001	20
398			min	-0.012	20	-0.002	18	0	15	-0.015	18	0	21	-0.001	20	-0.003	19
399		5	max	0.356	19	0	2	0	12	-0.014	2	0.045	18	0.001	2	0.064	16
400			min	-0.013	20	-0.004	18	0	15	-0.045	18	0.014	2	-0.052	16	-0.001	2
401	M53	1	max	0.359	18	0.002	18	0	15	0	21	0	21	0	21	0	21
402			min	-0.013	21	0	2	0	12	0	1	0	1	0	1	0	1
403		2	max	0.36	18	0.001	18	0	15	0.018	18	-0.003	2	0.026	16	0.001	2
404			min	-0.012	21	0	2	0	12	0.003	2	-0.018	18	0	2	-0.032	16
405		3	max	0.361	18	0	2	0	15	0.022	18	-0.007	2	0.026	16	0.001	2
406			min	-0.012	21	-0.001	17	0	12	0.007	2	-0.022	18	-0.001	2	-0.032	16
407		4	max	0.362	18	0	2	0	15	0.015	18	0	21	0.001	20	0.004	19
408			min	-0.011	21	-0.002	17	0	12	0	21	-0.015	18	-0.003	19	-0.001	20
409		5	max	0.363	18	0	2	0	15	0.013	2	0.024	17	-0.002	2	0.067	19
410			min	-0.01	21	-0.004	17	0	12	-0.024	17	-0.013	2	-0.055	19	0.002	2
411	M54	1	max	0.299	19	0.004	18	0	15	-0.009	2	0.037	12	-0.01	2	0.08	18
412			min	-0.022	20	0	2	0	19	-0.037	12	0.009	2	-0.066	18	0.012	2
413		2	max	0.298	19	0.002	18	0	15	0	15	0.009	12	0.001	21	0.013	18
414			min	-0.022	20	0	2	0	19	-0.009	12	0	15	-0.011	18	-0.001	21
415		3	max	0.297	19	0.001	18	0	15	0.012	9	0.004	2	0.026	17	0.006	2
416			min	-0.023	20	0	2	0	19	-0.004	2	-0.012	9	-0.005	2	-0.031	17
417		4	max	0.296	19	0	2	0	15	0.012	9	0.002	2	0.026	17	0.003	2
418			min	-0.024	20	-0.001	17	0	19	-0.002	2	-0.012	9	-0.002	2	-0.031	17
419		5	max	0.295	19	0	2	0	15	0	21	0	21	0	21	0	21
420			min	-0.024	20	-0.002	17	0	19	0	1	0	1	0	1	0	1
421	M55	1	max	0.291	18	0.004	19	0	15	-0.004	2	0.031	19	0.002	2	0.066	17
422			min	-0.025	21	0	2	0	12	-0.031	19	0.004	2	-0.054	17	-0.002	2
423		2	max	0.29	18	0.002	19	0	15	0	20	0.004	19	0.003	18	0.002	21
424			min	-0.026	21	0	2	0	12	-0.004	19	0	20	-0.002	21	-0.004	18
425		3	max	0.289	18	0.001	19	0	15	0.012	16	0.002	2	0.028	18	-0.001	2
426			min	-0.027	21	0	2	0	12	-0.002	2	-0.012	16	0.001	2	-0.034	18
427		4	max	0.288	18	0	2	0	15	0.013	16	0.001	2	0.027	18	-0.001	2
428			min	-0.027	21	-0.001	16	0	12	-0.001	2	-0.013	16	0.001	2	-0.033	18
429		5	max	0.287	18	0	2	0	15	0	21	0	21	0	21	0	21
430			min	-0.028	21	-0.002	16	0	12	0	1	0	1	0	1	0	1
431	M56	1	max	0.292	18	0.004	9	0	5	0.014	2	0.021	9	0.01	2	0.059	17
432			min	0.018	21	0	2	0	15	-0.021	9	-0.014	2	-0.048	17	-0.013	2
433		2	max	0.293	18	0.002	9	0	5	0.015	5	-0.002	15	0.01	5	-0.001	21
434			min	0.018	21	0	2	0	15	0.002	15	-0.015	3	0.001	21	-0.013	3
435		3	max	0.294	18	0.001	9	0	5	0.023	5	-0.007	2	0.033	5	-0.006	2

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
436			min	0.019	21	0	2	0	15	0.007	2	-0.023	3	0.005	2	-0.04	3
437		4	max	0.295	18	0	2	0	5	0.018	5	-0.004	2	0.029	5	-0.003	2
438			min	0.02	21	-0.001	3	0	15	0.004	2	-0.018	3	0.003	2	-0.036	3
439		5	max	0.296	18	0	2	0	5	0	21	0	21	0	21	0	21
440			min	0.02	21	-0.003	3	0	15	0	1	0	1	0	1	0	1
441	M57	1	max	0.512	5	0.004	5	0	15	-0.015	2	0.046	5	-0.011	2	0.081	5
442			min	0.053	15	0	2	0	3	-0.046	3	0.015	2	-0.066	3	0.013	2
443		2	max	0.511	5	0.003	5	0	15	-0.002	15	0.016	5	-0.001	21	0.013	5
444			min	0.053	15	0	2	0	3	-0.016	3	0.002	15	-0.011	3	0.001	21
445		3	max	0.51	5	0.001	5	0	15	0.01	9	0.008	2	0.024	17	0.007	2
446			min	0.052	15	0	2	0	3	-0.008	2	-0.01	9	-0.005	2	-0.03	17
447		4	max	0.509	5	0	2	0	15	0.012	9	0.004	2	0.025	17	0.003	2
448			min	0.052	15	-0.001	9	0	3	-0.004	2	-0.012	9	-0.003	2	-0.031	17
449		5	max	0.508	5	0	2	0	15	0	21	0	21	0	21	0	21
450			min	0.051	15	-0.002	9	0	3	0	1	0	1	0	1	0	1
451	M58	1	max	0.239	19	0.004	16	0	12	0.005	2	0.024	16	0.002	2	0.063	8
452			min	0.015	20	0	2	0	15	-0.024	16	-0.005	2	-0.051	8	-0.002	2
453		2	max	0.24	19	0.002	16	0	12	0.005	5	-0.001	20	0.003	13	0	14
454			min	0.015	20	0	2	0	15	0.001	20	-0.005	3	0	14	-0.003	13
455		3	max	0.241	19	0.001	16	0	12	0.016	5	-0.002	2	0.027	13	-0.001	2
456			min	0.016	20	0	2	0	15	0.002	2	-0.016	3	0.001	2	-0.033	13
457		4	max	0.242	19	0	2	0	12	0.014	5	-0.001	2	0.026	13	-0.001	2
458			min	0.017	20	-0.001	19	0	15	0.001	2	-0.014	3	0.001	2	-0.032	13
459		5	max	0.243	19	0	2	0	12	0	21	0	21	0	21	0	21
460			min	0.017	20	-0.002	19	0	15	0	1	0	1	0	1	0	1
461	M59	1	max	0.156	19	0.004	19	0	15	-0.005	2	0.032	19	-0.002	2	0.067	13
462			min	0.001	20	0	2	0	12	-0.032	19	0.005	2	-0.055	13	0.003	2
463		2	max	0.155	19	0.002	19	0	15	-0.001	20	0.005	19	0	14	0.003	13
464			min	0.001	20	0	2	0	12	-0.005	19	0.001	20	-0.003	13	0	14
465		3	max	0.154	19	0.001	19	0	15	0.012	16	0.002	2	0.026	8	0.001	2
466			min	0	20	0	2	0	12	-0.002	2	-0.012	16	-0.001	2	-0.031	8
467		4	max	0.153	19	0	2	0	15	0.012	16	0.001	2	0.026	8	0.001	2
468			min	-0.001	20	-0.001	16	0	12	-0.001	2	-0.012	16	-0.001	2	-0.031	8
469		5	max	0.152	19	0	2	0	15	0	21	0	21	0	21	0	21
470			min	-0.001	20	-0.002	16	0	12	0	1	0	1	0	1	0	1
471	M60	1	max	0.365	18	0.004	17	0	12	0.02	2	0.021	17	0.012	2	0.06	17
472			min	-0.009	21	0	2	0	15	-0.021	17	-0.02	2	-0.049	17	-0.015	2
473		2	max	0.366	18	0.002	17	0	12	0.022	18	-0.001	21	0.013	18	-0.001	21
474			min	-0.009	21	0	2	0	15	0.001	21	-0.022	18	0.001	21	-0.016	18
475		3	max	0.367	18	0.001	17	0	12	0.027	18	-0.008	21	0.034	18	-0.008	2
476			min	-0.008	21	0	2	0	15	0.008	21	-0.027	18	0.006	2	-0.042	18
477		4	max	0.368	18	0	2	0	12	0.02	18	-0.005	2	0.03	18	-0.004	2
478			min	-0.007	21	-0.001	18	0	15	0.005	2	-0.02	18	0.003	2	-0.037	18
479		5	max	0.369	18	0	2	0	12	0	21	0	21	0	21	0	21
480			min	-0.007	21	-0.003	18	0	15	0	1	0	1	0	1	0	1
481	M61	1	max	0.354	19	0.004	18	0	15	-0.016	15	0.054	18	-0.013	2	0.085	18
482			min	-0.014	20	0	2	0	12	-0.054	18	0.016	15	-0.07	18	0.017	2
483		2	max	0.353	19	0.003	18	0	15	-0.001	15	0.022	18	-0.001	21	0.017	18
484			min	-0.015	20	0	2	0	12	-0.022	18	0.001	15	-0.014	18	0.001	21
485		3	max	0.352	19	0.001	18	0	15	0.011	9	0.01	2	0.024	17	0.008	2
486			min	-0.015	20	0	2	0	12	-0.01	2	-0.011	9	-0.007	2	-0.03	17
487		4	max	0.351	19	0	2	0	15	0.012	9	0.005	2	0.025	17	0.004	2
488			min	-0.016	20	-0.001	17	0	12	-0.005	2	-0.012	9	-0.003	2	-0.031	17
489		5	max	0.35	19	0	2	0	15	0	21	0	21	0	21	0	21
490			min	-0.016	20	-0.002	17	0	12	0	1	0	1	0	1	0	1

Envelope Member Section Stresses (Continued)

Member	Sec	Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC

Envelope Member Section Deflections - Service

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
1	M47	1	max	0.118	5	0.292	5	0	15	0	15	NC	21	NC	21
2			min	0.017	15	0.036	15	-0.005	12	-0.003	3	NC	1	NC	1
3		2	max	0.117	5	0.321	5	0	15	0	15	NC	21	NC	21
4			min	0.017	15	0.041	15	-0.006	12	-0.003	3	NC	1	8413.257	12
5		3	max	0.117	5	0.351	5	0	15	0	15	NC	21	NC	21
6			min	0.017	15	0.047	15	-0.004	12	-0.003	3	NC	1	7361.6	12
7		4	max	0.117	5	0.38	5	0	15	0	15	NC	21	NC	21
8			min	0.017	15	0.052	15	-0.002	12	-0.003	3	NC	1	NC	1
9		5	max	0.117	5	0.41	5	0	21	0	15	NC	21	NC	21
10			min	0.016	15	0.058	15	0	1	-0.003	3	NC	1	NC	1
11	M49	1	max	0.097	5	-0.026	15	0.005	12	0	15	NC	21	NC	21
12			min	0.013	15	-0.219	3	0	15	-0.003	3	NC	1	NC	1
13		2	max	0.097	5	-0.031	15	0.006	12	0	15	NC	21	NC	21
14			min	0.013	15	-0.248	3	0	15	-0.003	3	NC	1	8333.64	12
15		3	max	0.097	5	-0.036	15	0.004	12	0	15	NC	21	NC	21
16			min	0.013	15	-0.277	3	0	15	-0.003	3	NC	1	7291.935	12
17		4	max	0.097	5	-0.04	15	0.002	12	0	15	NC	21	NC	21
18			min	0.013	15	-0.307	3	0	15	-0.003	3	NC	1	NC	1
19		5	max	0.096	5	-0.045	15	0	21	0	15	NC	21	NC	21
20			min	0.013	15	-0.337	3	0	1	-0.003	3	NC	1	NC	1
21	M40	1	max	0.005	12	0.314	5	0.033	5	-0.001	14	NC	21	NC	21
22			min	0	15	0.039	15	0.005	14	-0.009	3	NC	1	NC	1
23		2	max	0.005	12	0.295	5	0.034	5	-0.001	14	NC	21	NC	21
24			min	0	15	0.036	15	0.006	14	-0.009	3	NC	1	NC	1
25		3	max	0.005	12	0.275	5	0.033	5	-0.002	14	NC	21	NC	21
26			min	0	15	0.034	15	0.005	14	-0.009	3	NC	1	NC	1
27		4	max	0.005	12	0.256	5	0.032	5	-0.002	15	NC	21	NC	21
28			min	0	15	0.031	15	0.005	21	-0.009	3	NC	1	NC	1
29		5	max	0.005	12	0.237	5	0.033	5	-0.001	15	NC	21	NC	21
30			min	0	15	0.029	15	0.005	15	-0.009	3	NC	1	NC	1
31	M43	1	max	0.118	5	0.189	12	0.001	15	0	15	NC	21	NC	21
32			min	0.017	15	0.015	15	-0.003	12	-0.003	12	NC	1	NC	1
33		2	max	0.118	5	0.214	12	0.001	15	0	15	NC	21	NC	21
34			min	0.017	15	0.02	15	-0.004	12	-0.003	12	NC	1	NC	1
35		3	max	0.118	5	0.239	12	0.001	15	0	15	NC	21	NC	21
36			min	0.017	15	0.025	15	-0.005	12	-0.003	12	7906.106	3	NC	1
37		4	max	0.118	5	0.264	12	0.001	15	0	15	NC	21	NC	21
38			min	0.017	15	0.03	15	-0.005	12	-0.003	12	NC	1	NC	1
39		5	max	0.118	5	0.292	5	0	15	0	15	NC	21	NC	21
40			min	0.017	15	0.036	15	-0.005	12	-0.003	3	NC	1	NC	1
41	M45	1	max	0.097	5	-0.009	15	0.003	12	0	15	NC	21	NC	21
42			min	0.013	15	-0.115	12	-0.001	15	-0.003	12	NC	1	NC	1
43		2	max	0.097	5	-0.013	15	0.004	12	0	15	NC	21	NC	21
44			min	0.013	15	-0.139	12	-0.001	15	-0.003	12	7924.341	3	NC	1
45		3	max	0.097	5	-0.017	15	0.005	12	0	15	NC	21	NC	21
46			min	0.013	15	-0.165	12	-0.001	15	-0.003	12	6207.95	3	NC	1
47		4	max	0.097	5	-0.022	15	0.005	12	0	15	NC	21	NC	21
48			min	0.013	15	-0.191	3	-0.001	15	-0.003	12	8677.545	3	NC	1
49		5	max	0.097	5	-0.026	15	0.005	12	0	15	NC	21	NC	21
50			min	0.013	15	-0.219	3	0	15	-0.003	3	NC	1	NC	1
51	M38	1	max	0.003	12	0.214	12	0.063	5	-0.001	14	NC	21	NC	21
52			min	-0.001	15	0.019	15	0.01	14	-0.008	3	NC	1	NC	1
53		2	max	0.003	12	0.195	12	0.064	5	-0.001	14	NC	21	NC	21
54			min	-0.001	15	0.018	15	0.01	14	-0.008	3	NC	1	NC	1
55		3	max	0.003	12	0.175	12	0.063	5	-0.001	14	NC	21	NC	21

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
56			min	-0.001	15	0.016	15	0.01	14	-0.008	3	NC	1	NC	1
57		4	max	0.003	12	0.156	12	0.062	5	-0.001	15	NC	21	NC	21
58			min	-0.001	15	0.014	15	0.01	15	-0.008	3	NC	1	NC	1
59		5	max	0.003	12	0.137	12	0.063	5	-0.001	15	NC	21	NC	21
60			min	-0.001	15	0.012	15	0.01	15	-0.008	3	NC	1	NC	1
61	M39	1	max	0.118	5	0.102	12	0.004	13	0	15	NC	21	NC	21
62			min	0.017	15	-0.002	15	-0.002	14	-0.003	12	NC	1	NC	1
63		2	max	0.118	5	0.122	12	0.002	9	0	15	NC	21	NC	21
64			min	0.017	15	0.002	15	-0.002	14	-0.003	12	7338.636	3	NC	1
65		3	max	0.118	5	0.144	12	0.002	9	0	15	NC	21	NC	21
66			min	0.017	15	0.006	15	-0.002	14	-0.003	12	5600.213	3	NC	1
67		4	max	0.118	5	0.166	12	0.002	15	0	15	NC	21	NC	21
68			min	0.017	15	0.011	15	-0.002	12	-0.003	12	7610.951	3	NC	1
69		5	max	0.118	5	0.189	12	0.001	15	0	15	NC	21	NC	21
70			min	0.017	15	0.015	15	-0.003	12	-0.003	12	NC	1	NC	1
71	M25	1	max	0.062	13	0.137	5	0.022	13	0	14	NC	21	NC	21
72			min	-0.014	14	0.021	14	0	14	-0.001	13	NC	1	NC	1
73		2	max	0.062	13	0.139	5	0.017	13	0	14	NC	21	NC	21
74			min	-0.014	14	0.022	14	0	14	0	13	NC	1	NC	1
75		3	max	0.062	13	0.14	5	0.012	13	0.001	12	NC	21	NC	21
76			min	-0.014	14	0.022	14	0	14	0	15	NC	1	NC	1
77		4	max	0.062	13	0.142	5	0.007	13	0.002	5	NC	21	NC	21
78			min	-0.014	14	0.023	14	0	14	0	15	NC	1	NC	1
79		5	max	0.062	13	0.143	5	0.001	12	0.003	5	NC	21	NC	21
80			min	-0.014	14	0.023	14	0	15	0	14	NC	1	NC	1
81	M36	1	max	0.002	14	0.13	12	0.088	5	-0.001	14	NC	21	NC	21
82			min	-0.004	13	0.002	15	0.014	14	-0.007	3	NC	1	NC	1
83		2	max	0.002	14	0.112	12	0.089	5	-0.001	14	NC	21	NC	21
84			min	-0.004	13	0.001	15	0.014	14	-0.006	3	NC	1	NC	1
85		3	max	0.002	14	0.093	12	0.088	5	-0.001	14	NC	21	NC	21
86			min	-0.004	13	0.001	15	0.015	14	-0.006	3	NC	1	NC	1
87		4	max	0.002	14	0.075	12	0.086	5	-0.001	15	NC	21	NC	21
88			min	-0.004	13	0	15	0.015	15	-0.006	3	NC	1	NC	1
89		5	max	0.002	14	0.057	12	0.087	5	-0.001	15	NC	21	NC	21
90			min	-0.004	13	-0.001	15	0.014	15	-0.006	3	NC	1	NC	1
91	M41	1	max	0.098	5	0.005	15	0.002	14	0	15	NC	21	NC	21
92			min	0.013	15	-0.032	12	-0.004	13	-0.003	12	NC	1	NC	1
93		2	max	0.098	5	0.002	15	0.002	14	0	15	NC	21	NC	21
94			min	0.013	15	-0.05	12	-0.002	9	-0.003	12	5547.972	3	NC	1
95		3	max	0.098	5	-0.002	15	0.002	14	0	15	NC	21	NC	21
96			min	0.013	15	-0.071	12	-0.002	9	-0.003	12	4248.402	3	NC	1
97		4	max	0.097	5	-0.005	15	0.002	12	0	15	NC	21	NC	21
98			min	0.013	15	-0.092	12	-0.002	15	-0.003	12	5792.546	3	NC	1
99		5	max	0.097	5	-0.009	15	0.003	12	0	15	NC	21	NC	21
100			min	0.013	15	-0.115	12	-0.001	15	-0.003	12	NC	1	NC	1
101	M26	1	max	0.015	13	-0.017	15	0	14	0	14	NC	21	NC	21
102			min	-0.009	14	-0.103	3	-0.022	13	-0.001	13	NC	1	NC	1
103		2	max	0.015	13	-0.016	15	0	14	0	14	NC	21	NC	21
104			min	-0.009	14	-0.094	3	-0.017	13	-0.003	3	NC	1	NC	1
105		3	max	0.015	13	-0.014	21	0	14	-0.001	14	NC	21	NC	21
106			min	-0.009	14	-0.085	3	-0.012	13	-0.005	3	NC	1	NC	1
107		4	max	0.015	13	-0.013	21	0	14	-0.001	14	NC	21	NC	21
108			min	-0.009	14	-0.075	3	-0.006	13	-0.007	3	NC	1	NC	1
109		5	max	0.015	13	-0.011	21	0	15	-0.001	14	NC	21	NC	21
110			min	-0.009	14	-0.065	3	-0.001	12	-0.009	3	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
111	M35	1	max	0.118	5	0.034	12	0.008	13	0	15	NC	21	NC	21
112			min	0.017	15	-0.017	15	-0.002	14	-0.003	12	NC	1	NC	1
113		2	max	0.118	5	0.049	12	0.007	13	0	15	NC	21	NC	21
114			min	0.017	15	-0.013	15	-0.002	14	-0.003	12	6493.277	3	NC	1
115		3	max	0.118	5	0.066	12	0.006	13	0	15	NC	21	NC	21
116			min	0.017	15	-0.01	15	-0.002	14	-0.003	12	4892.493	3	NC	1
117		4	max	0.118	5	0.083	12	0.005	13	0	15	NC	21	NC	21
118			min	0.017	15	-0.006	15	-0.002	14	-0.003	12	6561.917	3	NC	1
119		5	max	0.118	5	0.102	12	0.004	13	0	15	NC	21	NC	21
120			min	0.017	15	-0.002	15	-0.002	14	-0.003	12	NC	1	NC	1
121	M11	1	max	0.118	5	0.008	14	0.022	13	0.002	13	NC	21	NC	21
122			min	0.017	15	-0.096	13	0	14	0	14	NC	1	NC	1
123		2	max	0.118	5	0.008	14	0.021	13	0.002	13	NC	21	NC	21
124			min	0.017	15	-0.093	13	-0.001	14	0	14	NC	1	NC	1
125		3	max	0.118	5	0.009	14	0.019	13	0.001	13	NC	21	NC	21
126			min	0.017	15	-0.09	13	-0.001	14	0	14	7909.082	3	NC	1
127		4	max	0.118	5	0.01	14	0.018	13	0.001	13	NC	21	NC	21
128			min	0.017	15	-0.085	13	-0.001	14	0	14	NC	1	NC	1
129		5	max	0.118	5	0.011	14	0.017	13	0.001	15	NC	21	NC	21
130			min	0.017	15	-0.08	13	-0.001	14	-0.001	8	NC	1	NC	1
131	M28	1	max	0.118	5	0.011	14	0.017	13	0.001	15	NC	21	NC	21
132			min	0.017	15	-0.08	13	-0.001	14	-0.001	8	NC	1	NC	1
133		2	max	0.118	5	0.012	14	0.015	13	0	15	NC	21	NC	21
134			min	0.017	15	-0.074	13	-0.001	14	-0.001	12	7631.094	3	NC	1
135		3	max	0.118	5	0.013	14	0.014	13	0	15	NC	21	NC	21
136			min	0.017	15	-0.066	13	-0.001	14	-0.001	12	5616.072	3	NC	1
137		4	max	0.119	5	0.015	14	0.013	13	0	15	NC	21	NC	21
138			min	0.017	15	-0.058	13	-0.001	14	-0.001	12	7360.76	3	NC	1
139		5	max	0.119	5	0.016	14	0.012	13	0	15	NC	21	NC	21
140			min	0.017	15	-0.048	13	-0.001	14	-0.002	12	NC	1	NC	1
141	M30	1	max	0.097	5	0.069	13	0.001	14	0.001	15	NC	21	NC	21
142			min	0.013	15	0.002	14	-0.017	13	-0.001	8	NC	1	NC	1
143		2	max	0.097	5	0.072	13	0.001	14	0	15	NC	21	NC	21
144			min	0.013	15	0.003	14	-0.015	13	-0.001	12	4413.233	3	NC	1
145		3	max	0.097	5	0.073	13	0.001	14	0	15	NC	21	NC	21
146			min	0.013	15	0.003	14	-0.014	13	-0.001	12	3294.933	3	NC	1
147		4	max	0.098	5	0.072	13	0.001	14	0	15	NC	21	NC	21
148			min	0.013	15	0.003	14	-0.013	13	-0.001	12	4377.116	3	NC	1
149		5	max	0.098	5	0.069	13	0.001	14	0	15	NC	21	NC	21
150			min	0.013	15	0.002	14	-0.012	13	-0.002	12	NC	1	NC	1
151	M12	1	max	0.097	5	0.041	13	0	14	0.002	13	NC	21	NC	21
152			min	0.013	15	-0.004	14	-0.022	13	0	14	NC	1	NC	1
153		2	max	0.097	5	0.051	13	0.001	14	0.002	13	NC	21	NC	21
154			min	0.013	15	-0.002	14	-0.02	13	0	14	4878.201	3	NC	1
155		3	max	0.097	5	0.058	13	0.001	14	0.001	13	NC	21	NC	21
156			min	0.013	15	0	14	-0.019	13	0	14	3613.387	3	NC	1
157		4	max	0.097	5	0.065	13	0.001	14	0.001	13	NC	21	NC	21
158			min	0.013	15	0.001	14	-0.018	13	0	14	4763.331	3	NC	1
159		5	max	0.097	5	0.069	13	0.001	14	0.001	15	NC	21	NC	21
160			min	0.013	15	0.002	14	-0.017	13	-0.001	8	NC	1	NC	1
161	M33	1	max	0.098	5	0.069	13	0.001	14	0	15	NC	21	NC	21
162			min	0.013	15	0.002	14	-0.012	13	-0.002	12	NC	1	NC	1
163		2	max	0.098	5	0.064	13	0.002	14	0	15	NC	21	NC	21
164			min	0.013	15	0.001	14	-0.011	13	-0.002	12	4350.894	3	NC	1
165		3	max	0.098	5	0.058	13	0.002	14	0	15	NC	21	NC	21

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
166			min	0.013	15	0	14	-0.01	13	-0.002	12	3270.449	3	NC	1
167		4	max	0.098	5	0.05	13	0.002	14	0	15	NC	21	NC	21
168			min	0.013	15	-0.001	14	-0.009	13	-0.002	12	4374.022	3	NC	1
169		5	max	0.098	5	0.04	13	0.002	14	0	15	NC	21	NC	21
170			min	0.013	15	-0.003	14	-0.008	13	-0.003	12	NC	1	NC	1
171	M34	1	max	0.002	14	0.064	12	0.109	5	-0.001	14	NC	21	NC	21
172			min	-0.008	13	-0.011	15	0.017	14	-0.005	3	NC	1	NC	1
173		2	max	0.002	14	0.048	12	0.108	5	-0.001	14	NC	21	NC	21
174			min	-0.008	13	-0.011	15	0.017	14	-0.005	3	NC	1	NC	1
175		3	max	0.002	14	0.033	12	0.106	5	-0.001	14	NC	21	NC	21
176			min	-0.008	13	-0.011	15	0.018	14	-0.004	3	NC	1	NC	1
177		4	max	0.002	14	0.017	12	0.104	5	-0.001	21	NC	21	NC	21
178			min	-0.008	13	-0.011	15	0.018	15	-0.004	3	NC	1	NC	1
179		5	max	0.002	14	0.009	14	0.103	5	-0.001	15	NC	21	NC	21
180			min	-0.008	13	-0.013	13	0.017	15	-0.004	3	NC	1	NC	1
181	M27	1	max	0	14	0.014	14	0.137	5	0	15	NC	21	NC	21
182			min	-0.022	13	-0.062	13	0.021	14	-0.001	3	NC	1	NC	1
183		2	max	0	14	0.013	14	0.129	5	0	2	NC	21	NC	21
184			min	-0.022	13	-0.051	13	0.021	14	0	16	NC	1	NC	1
185		3	max	0	14	0.011	14	0.12	5	0.001	5	NC	21	NC	21
186			min	-0.022	13	-0.039	13	0.02	14	0	15	NC	1	NC	1
187		4	max	0	14	0.01	14	0.111	5	0.002	5	NC	21	NC	21
188			min	-0.022	13	-0.027	13	0.019	21	0	15	NC	1	NC	1
189		5	max	0	14	0.009	14	0.103	5	0.003	5	NC	21	NC	21
190			min	-0.022	13	-0.015	13	0.017	15	0	15	NC	1	NC	1
191	M7	1	max	0.001	12	0.009	14	-0.011	21	0	21	NC	21	NC	21
192			min	0	15	-0.015	13	-0.065	3	0	18	NC	1	NC	1
193		2	max	0.001	12	0.013	14	-0.018	14	0	21	NC	21	5731.511	14
194			min	0	15	-0.034	13	-0.111	3	0	18	3650.494	13	931.261	3
195		3	max	0.001	12	0.016	14	-0.023	14	0	21	NC	21	4259.796	14
196			min	0	15	-0.05	13	-0.139	3	0	18	2183.252	13	681.31	3
197		4	max	0.001	12	0.016	14	-0.024	14	0	21	NC	21	5647.214	14
198			min	0	15	-0.06	13	-0.15	3	0	18	2438.205	13	893.618	3
199		5	max	0.001	12	0.014	14	-0.023	14	0	21	NC	21	NC	21
200			min	0	15	-0.062	13	-0.143	3	0	18	NC	1	NC	1
201	M10	1	max	0.001	12	0.014	14	-0.023	14	0	21	NC	21	NC	21
202			min	0	15	-0.062	13	-0.143	3	0	18	NC	1	NC	1
203		2	max	0.001	12	0.012	14	-0.02	14	0	21	NC	21	9781.451	14
204			min	0	15	-0.055	13	-0.121	3	0	18	2579.653	13	1640.581	3
205		3	max	0.001	12	0.009	14	-0.015	14	0	21	NC	21	8360.355	14
206			min	0	15	-0.04	13	-0.089	3	0	18	2232.33	13	1426.047	3
207		4	max	0.001	12	0.006	14	-0.008	14	0	21	NC	21	NC	21
208			min	0	15	-0.021	13	-0.049	3	0	18	3542.309	13	2270.396	3
209		5	max	0.001	12	0.003	18	0	21	0	21	NC	21	NC	21
210			min	0	15	-0.002	21	-0.005	18	0	18	NC	1	NC	1
211	M31	1	max	0.119	5	0.016	14	0.012	13	0	15	NC	21	NC	21
212			min	0.017	15	-0.048	13	-0.001	14	-0.002	12	NC	1	NC	1
213		2	max	0.118	5	0.018	14	0.011	13	0	15	NC	21	NC	21
214			min	0.017	15	-0.037	13	-0.002	14	-0.002	12	6570.378	3	NC	1
215		3	max	0.118	5	0.02	14	0.01	13	0	15	NC	21	NC	21
216			min	0.017	15	-0.025	13	-0.002	14	-0.002	12	4898.608	3	NC	1
217		4	max	0.118	5	0.023	8	0.009	13	0	15	NC	21	NC	21
218			min	0.017	15	-0.02	15	-0.002	14	-0.002	12	6501.149	3	NC	1
219		5	max	0.118	5	0.034	12	0.008	13	0	15	NC	21	NC	21
220			min	0.017	15	-0.017	15	-0.002	14	-0.003	12	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
221	M29	1	max	0.001	14	0.017	14	0.132	5	0	14	NC	21	NC	21
222			min	-0.017	13	-0.047	13	0.02	14	-0.002	3	NC	1	NC	1
223		2	max	0.001	14	0.014	14	0.128	5	0	14	NC	21	NC	21
224			min	-0.017	13	-0.045	13	0.021	14	-0.001	3	NC	1	NC	1
225		3	max	0.001	14	0.01	14	0.122	5	0	14	NC	21	NC	21
226			min	-0.017	13	-0.044	13	0.02	14	0	13	NC	1	NC	1
227		4	max	0.001	14	0.007	14	0.116	5	0	12	NC	21	NC	21
228			min	-0.017	13	-0.043	13	0.02	21	0	15	NC	1	NC	1
229		5	max	0.001	14	0.003	14	0.111	5	0.001	5	NC	21	NC	21
230			min	-0.017	13	-0.042	13	0.018	15	0	15	NC	1	NC	1
231	M32	1	max	0.001	14	0.023	8	0.123	5	-0.001	14	NC	21	NC	21
232			min	-0.012	13	-0.021	15	0.019	14	-0.003	3	NC	1	NC	1
233		2	max	0.001	14	0.018	14	0.121	5	0	14	NC	21	NC	21
234			min	-0.012	13	-0.022	13	0.019	14	-0.003	3	NC	1	NC	1
235		3	max	0.001	14	0.013	14	0.117	5	0	14	NC	21	NC	21
236			min	-0.012	13	-0.029	13	0.02	14	-0.002	3	NC	1	NC	1
237		4	max	0.001	14	0.008	14	0.114	5	0	14	NC	21	NC	21
238			min	-0.012	13	-0.035	13	0.019	21	-0.002	3	NC	1	NC	1
239		5	max	0.001	14	0.003	14	0.112	5	0	21	NC	21	NC	21
240			min	-0.012	13	-0.041	13	0.018	15	-0.001	3	NC	1	NC	1
241	M37	1	max	0.098	5	0.04	13	0.002	14	0	15	NC	21	NC	21
242			min	0.013	15	-0.003	14	-0.008	13	-0.003	12	NC	1	NC	1
243		2	max	0.098	5	0.028	13	0.002	14	0	15	NC	21	NC	21
244			min	0.013	15	-0.006	14	-0.007	13	-0.003	12	4660.646	3	NC	1
245		3	max	0.098	5	0.015	13	0.002	14	0	15	NC	21	NC	21
246			min	0.013	15	-0.008	14	-0.006	13	-0.003	12	3529.633	3	NC	1
247		4	max	0.098	5	0.008	15	0.002	14	0	15	NC	21	NC	21
248			min	0.013	15	-0.015	12	-0.005	13	-0.003	12	4756.954	3	NC	1
249		5	max	0.098	5	0.005	15	0.002	14	0	15	NC	21	NC	21
250			min	0.013	15	-0.032	12	-0.004	13	-0.003	12	NC	1	NC	1
251	M5	1	max	0.001	5	0.002	21	0	20	0	18	NC	21	NC	21
252			min	0	15	-0.003	18	-0.003	19	0	21	NC	1	NC	1
253		2	max	0.001	5	0.02	15	-0.002	2	0	18	NC	21	NC	2
254			min	0	15	-0.021	8	-0.016	19	0	21	2765.513	8	3937.504	3
255		3	max	0.001	5	0.027	15	-0.002	2	0	18	NC	21	NC	2
256			min	0	15	-0.028	8	-0.021	19	0	21	1970.428	8	2805.472	17
257		4	max	0.001	5	0.02	15	-0.002	2	0	18	NC	21	NC	2
258			min	0	20	-0.021	8	-0.016	19	0	21	2765.513	8	3937.504	7
259		5	max	0.001	5	0.002	21	0	20	0	18	NC	21	NC	21
260			min	0	20	-0.005	18	-0.003	19	0	21	NC	1	NC	1
261	M6	1	max	0.001	12	0.005	18	-0.001	21	0	21	NC	21	NC	21
262			min	0	15	-0.002	21	-0.007	3	0	18	NC	1	NC	1
263		2	max	0.001	12	0.004	8	-0.003	21	0	21	NC	21	NC	21
264			min	0	15	-0.004	15	-0.022	3	0	18	NC	1	NC	1
265		3	max	0.001	12	0.006	14	-0.006	21	0	21	NC	21	NC	21
266			min	0	15	-0.007	9	-0.037	3	0	18	NC	1	6658.789	3
267		4	max	0.001	12	0.007	14	-0.009	21	0	21	NC	21	NC	21
268			min	0	15	-0.011	13	-0.052	3	0	18	NC	1	7615.511	3
269		5	max	0.001	12	0.009	14	-0.011	21	0	21	NC	21	NC	21
270			min	0	15	-0.015	13	-0.065	3	0	18	NC	1	NC	1
271	M61	1	max	0	20	0	21	0	8	0	15	NC	21	NC	21
272			min	-0.002	19	-0.002	18	0	15	0	12	NC	1	NC	1
273		2	max	0	20	0	21	0	2	0	20	NC	21	NC	21
274			min	-0.003	19	-0.003	18	0	9	0	19	NC	1	NC	1
275		3	max	0	20	0	21	0	2	0	20	NC	21	NC	21

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
276			min	-0.003	19	-0.005	18	0	9	0	19	NC	1	NC	1
277		4	max	0	20	0	21	0	2	0	20	NC	21	NC	21
278			min	-0.004	19	-0.007	18	0	9	0	19	NC	1	NC	1
279		5	max	0	20	0.001	21	0.001	12	0	20	NC	21	NC	21
280			min	-0.004	19	-0.008	18	0	15	0	19	NC	1	NC	1
281	M54	1	max	0	20	0.001	21	0.001	18	0	15	NC	21	NC	21
282			min	-0.002	19	-0.001	18	0	21	0	3	NC	1	NC	1
283		2	max	0	20	0	21	0.001	18	0	15	NC	21	NC	21
284			min	-0.002	19	-0.002	18	0	9	0	3	NC	1	NC	1
285		3	max	0	20	0	21	0.001	2	0	15	NC	21	NC	21
286			min	-0.003	19	-0.004	18	0	9	0	3	NC	1	NC	1
287		4	max	0	20	0.001	21	0.001	12	0	15	NC	21	NC	21
288			min	-0.003	19	-0.005	18	0	9	0	12	NC	1	NC	1
289		5	max	0	20	0.001	21	0.001	12	0	15	NC	21	NC	21
290			min	-0.004	19	-0.005	18	0	15	0	12	NC	1	NC	1
291	M1	1	max	0	21	0	21	0	21	0	20	NC	21	NC	21
292			min	0	1	0	1	0	1	0	19	NC	1	NC	1
293		2	max	0	21	0.001	21	0.001	12	0	20	NC	21	NC	21
294			min	-0.002	3	-0.001	18	0	15	0	19	NC	1	NC	1
295		3	max	0	21	0.001	21	0.001	12	0	20	NC	21	NC	21
296			min	-0.003	3	-0.002	18	0	15	0	19	NC	1	NC	1
297		4	max	-0.001	21	0.001	21	0.001	12	0	20	NC	21	NC	21
298			min	-0.005	3	-0.003	18	0	15	0	19	NC	1	NC	1
299		5	max	-0.001	21	0.002	21	0.001	12	0	20	NC	21	NC	21
300			min	-0.007	3	-0.005	18	0	15	0	19	NC	1	NC	1
301	M8	1	max	0	21	0	21	0	21	0	20	NC	21	NC	21
302			min	0	1	0	1	0	1	0	19	NC	1	NC	1
303		2	max	0	20	0.001	21	0	15	0	20	NC	21	NC	21
304			min	-0.001	19	-0.001	18	0	3	0	19	NC	1	NC	1
305		3	max	0	20	0.001	21	0	15	0	20	NC	21	NC	21
306			min	-0.001	19	-0.002	18	-0.001	3	0	19	NC	1	NC	1
307		4	max	0	20	0.001	21	0	20	0	20	NC	21	NC	21
308			min	-0.002	19	-0.003	18	-0.001	3	0	19	NC	1	NC	1
309		5	max	0	20	0.002	21	0	20	0	20	NC	21	NC	21
310			min	-0.003	19	-0.005	18	-0.001	3	0	19	NC	1	NC	1
311	M48	1	max	0.004	18	0	15	0.003	18	0	18	NC	21	NC	21
312			min	0	21	-0.003	12	-0.002	21	0	21	NC	1	NC	1
313		2	max	0.003	18	-0.001	15	0.003	18	0	18	NC	21	NC	21
314			min	0	21	-0.004	12	-0.002	17	0	21	NC	1	NC	1
315		3	max	0.003	18	-0.001	15	0.002	18	0	18	NC	21	NC	21
316			min	0	21	-0.004	12	-0.002	17	0	21	NC	1	NC	1
317		4	max	0.002	18	-0.001	15	0.002	18	0	18	NC	21	NC	21
318			min	0	21	-0.003	12	-0.001	21	0	21	NC	1	NC	1
319		5	max	0.002	18	0	15	0.002	18	0	18	NC	21	NC	21
320			min	0	21	-0.003	3	-0.001	21	0	21	NC	1	NC	1
321	M2	1	max	0	21	0	21	0	21	0	15	NC	21	NC	21
322			min	0	1	0	1	0	1	0	12	NC	1	NC	1
323		2	max	0	21	0.001	21	0.001	12	0	15	NC	21	NC	21
324			min	-0.001	18	-0.001	16	0	15	0	12	NC	1	NC	1
325		3	max	0	21	0.001	21	0.001	12	0	15	NC	21	NC	21
326			min	-0.002	18	-0.001	18	0	15	0	12	NC	1	NC	1
327		4	max	0	21	0.002	21	0.002	12	0	15	NC	21	NC	21
328			min	-0.004	18	-0.002	18	0	15	0	12	NC	1	NC	1
329		5	max	0	21	0.002	21	0.001	12	0	15	NC	21	NC	21
330			min	-0.005	18	-0.003	18	0	15	0	12	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
331	M9	1	max	0	21	0	21	0	21	0	15	NC	21	NC	21
332			min	0	1	0	1	0	1	0	12	NC	1	NC	1
333		2	max	0	20	0.001	21	0	15	0	15	NC	21	NC	21
334			min	-0.001	19	-0.001	16	0	3	0	12	NC	1	NC	1
335		3	max	0	20	0.001	21	0	15	0	15	NC	21	NC	21
336			min	-0.001	19	-0.001	18	-0.001	3	0	12	NC	1	NC	1
337		4	max	0	20	0.002	21	0	15	0	15	NC	21	NC	21
338			min	-0.002	19	-0.002	18	-0.001	3	0	12	NC	1	NC	1
339		5	max	0	20	0.002	21	0	15	0	15	NC	21	NC	21
340			min	-0.003	19	-0.003	18	-0.001	3	0	12	NC	1	NC	1
341	M53	1	max	0.004	18	0.003	18	0	20	0	19	NC	21	NC	21
342			min	0	21	-0.002	21	-0.001	3	0	20	NC	1	NC	1
343		2	max	0.004	18	0.001	20	0	20	0	19	NC	21	NC	21
344			min	0	21	-0.002	17	-0.001	3	0	20	NC	1	NC	1
345		3	max	0.003	18	0.001	20	0	2	0	19	NC	21	NC	21
346			min	0	21	-0.002	17	-0.001	13	0	20	NC	1	NC	1
347		4	max	0.003	18	0.001	20	0	2	0	5	NC	21	NC	21
348			min	0	21	-0.002	19	0	13	0	15	NC	1	NC	1
349		5	max	0.002	18	0	20	0	8	0	12	NC	21	NC	21
350			min	0	21	-0.002	19	0	15	0	15	NC	1	NC	1
351	M57	1	max	0	15	0	21	0.002	18	0	18	NC	21	NC	21
352			min	-0.003	3	0	18	-0.001	21	0	21	NC	1	NC	1
353		2	max	0	15	0	21	0.003	18	0	18	NC	21	NC	21
354			min	-0.004	3	-0.001	18	-0.001	21	0	21	NC	1	NC	1
355		3	max	0	15	-0.001	21	0.003	18	0	18	NC	21	NC	21
356			min	-0.005	3	-0.002	18	-0.002	21	0	21	NC	1	NC	1
357		4	max	-0.001	15	-0.001	21	0.004	18	0	18	NC	21	NC	21
358			min	-0.005	3	-0.003	18	-0.002	21	0	21	NC	1	NC	1
359		5	max	-0.001	15	0	21	0.005	18	0	18	NC	21	NC	21
360			min	-0.006	3	-0.003	18	-0.002	21	0	21	NC	1	8193.873	18
361	M56	1	max	0.002	18	0	15	0.002	18	0	18	NC	21	NC	21
362			min	0	21	-0.003	3	-0.001	21	0	21	NC	1	NC	1
363		2	max	0.001	18	0	15	0.001	18	0	18	NC	21	NC	21
364			min	0	21	-0.003	3	-0.001	17	0	21	NC	1	NC	1
365		3	max	0.001	18	-0.001	15	0	2	0	18	NC	21	NC	21
366			min	0	21	-0.003	3	-0.001	17	0	21	NC	1	NC	1
367		4	max	0	18	-0.001	15	0	2	0	18	NC	21	NC	21
368			min	0	21	-0.002	3	-0.001	17	0	21	NC	1	NC	1
369		5	max	0	21	0	21	0	21	0	18	NC	21	NC	21
370			min	0	1	0	1	0	1	0	21	NC	1	NC	1
371	M59	1	max	0	20	0	20	0.002	18	0	18	NC	21	NC	21
372			min	-0.001	19	-0.001	19	-0.001	21	0	21	NC	1	NC	1
373		2	max	0	20	0	20	0.002	18	0	18	NC	21	NC	21
374			min	-0.001	19	-0.002	19	-0.001	21	0	21	NC	1	NC	1
375		3	max	0	20	-0.001	20	0.003	18	0	18	NC	21	NC	21
376			min	-0.001	19	-0.002	19	-0.002	21	0	21	NC	1	NC	1
377		4	max	0	20	-0.001	20	0.004	18	0	18	NC	21	NC	21
378			min	-0.002	19	-0.003	19	-0.002	21	0	21	NC	1	NC	1
379		5	max	0	20	0	20	0.005	18	0	18	NC	21	NC	21
380			min	-0.002	19	-0.002	19	-0.002	21	0	21	NC	1	8627.404	18
381	M55	1	max	0	21	0	20	0	21	0	15	NC	21	NC	21
382			min	-0.002	18	-0.001	19	-0.001	18	0	3	NC	1	NC	1
383		2	max	0	21	0.001	20	0	21	0	15	NC	21	NC	21
384			min	-0.002	18	-0.002	19	-0.001	18	0	12	NC	1	NC	1
385		3	max	0	21	0.001	20	0	2	0	15	NC	21	NC	21

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
386			min	-0.003	18	-0.002	17	-0.001	16	0	12	NC	1	NC	1
387		4	max	0	21	0.001	20	0	2	0	15	NC	21	NC	21
388			min	-0.003	18	-0.003	17	0	16	0	12	NC	1	NC	1
389		5	max	0	21	0.002	20	0.001	5	0	15	NC	21	NC	21
390			min	-0.004	18	-0.002	17	0	15	0	12	NC	1	NC	1
391	M60	1	max	0.002	18	0	20	0	8	0	12	NC	21	NC	21
392			min	0	21	-0.002	19	0	15	0	15	NC	1	NC	1
393		2	max	0.002	18	0	20	0	2	0	5	NC	21	NC	21
394			min	0	21	-0.002	19	0	13	0	15	NC	1	NC	1
395		3	max	0.001	18	0	20	0	2	0	5	NC	21	NC	21
396			min	0	21	-0.002	19	-0.001	13	0	20	NC	1	NC	1
397		4	max	0.001	18	0	20	0	2	0	19	NC	21	NC	21
398			min	0	21	-0.001	19	0	13	0	20	NC	1	NC	1
399		5	max	0	21	0	21	0	21	0	19	NC	21	NC	21
400			min	0	1	0	1	0	1	0	20	NC	1	NC	1
401	M42	1	max	0	21	0	21	0	21	0	15	NC	21	NC	21
402			min	0	1	0	1	0	1	0	12	NC	1	NC	1
403		2	max	0	21	0	2	0	21	0	15	NC	21	NC	21
404			min	0	18	-0.001	19	-0.001	18	0	12	NC	1	NC	1
405		3	max	0	21	0	20	0	21	0	15	NC	21	NC	21
406			min	-0.001	18	-0.002	19	-0.001	18	0	12	NC	1	NC	1
407		4	max	0	21	0	20	0	21	0	15	NC	21	NC	21
408			min	-0.001	18	-0.002	19	-0.001	18	0	12	NC	1	NC	1
409		5	max	0	21	0	20	0	21	0	15	NC	21	NC	21
410			min	-0.002	18	-0.001	19	-0.001	18	0	3	NC	1	NC	1
411	M52	1	max	0	21	0	21	0	21	0	20	NC	21	NC	21
412			min	0	1	0	1	0	1	0	19	NC	1	NC	1
413		2	max	0	20	0	2	0	2	0	20	NC	21	NC	21
414			min	-0.001	19	-0.001	18	-0.001	3	0	19	NC	1	NC	1
415		3	max	0	20	0	2	0	2	0	20	NC	21	NC	21
416			min	-0.001	19	-0.001	18	-0.001	13	0	19	NC	1	NC	1
417		4	max	0	20	0	21	0	2	0	20	NC	21	NC	21
418			min	-0.002	19	-0.001	18	0	13	0	19	NC	1	NC	1
419		5	max	0	20	0	21	0	8	0	15	NC	21	NC	21
420			min	-0.002	19	-0.002	18	0	15	0	12	NC	1	NC	1
421	M50	1	max	0	21	0	21	0	21	0	20	NC	21	NC	21
422			min	0	1	0	1	0	1	0	19	NC	1	NC	1
423		2	max	0	20	0	2	0	2	0	20	NC	21	NC	21
424			min	0	19	-0.001	19	-0.001	17	0	19	NC	1	NC	1
425		3	max	0	20	0	2	0	2	0	20	NC	21	NC	21
426			min	0	19	-0.002	19	-0.001	17	0	17	NC	1	NC	1
427		4	max	0	20	0	20	0.001	18	0	20	NC	21	NC	21
428			min	-0.001	19	-0.001	19	-0.001	17	0	17	NC	1	NC	1
429		5	max	0	20	0	20	0.002	18	0	18	NC	21	NC	21
430			min	-0.001	19	-0.001	19	-0.001	21	0	21	NC	1	NC	1
431	M44	1	max	0	21	0	21	0	21	0	15	NC	21	NC	21
432			min	0	1	0	1	0	1	0	12	NC	1	NC	1
433		2	max	0	20	0	2	0	2	0	15	NC	21	NC	21
434			min	0	19	-0.001	18	0	17	0	12	NC	1	NC	1
435		3	max	0	20	0	21	0	2	0	15	NC	21	NC	21
436			min	-0.001	19	-0.001	18	-0.001	17	0	12	NC	1	NC	1
437		4	max	0	20	0	21	0	18	0	15	NC	21	NC	21
438			min	-0.001	19	-0.001	18	0	17	0	3	NC	1	NC	1
439		5	max	0	20	0.001	21	0.001	18	0	15	NC	21	NC	21
440			min	-0.002	19	-0.001	18	0	21	0	3	NC	1	NC	1

Envelope Member Section Deflections - Service (Continued)

	Member	Sec		x [in]	LC	y [in]	LC	z [in]	LC	x Rotate [rad]	LC	(n) L/y' Ratio	LC	(n) L/z' Ratio	LC
441	M51	1	max	0.003	19	0	20	0.003	18	0	18	NC	21	NC	21
442			min	0	20	-0.001	19	-0.002	21	0	21	NC	1	NC	1
443		2	max	0.003	19	0	2	0.002	18	0	18	NC	21	NC	21
444			min	0	20	-0.001	19	-0.002	17	0	21	NC	1	NC	1
445		3	max	0.002	19	0	2	0.002	18	0	18	NC	21	NC	21
446			min	0	20	-0.001	19	-0.002	17	0	21	NC	1	NC	1
447		4	max	0.002	19	0	2	0.002	18	0	18	NC	21	NC	21
448			min	0	20	-0.001	13	-0.001	21	0	21	NC	1	NC	1
449		5	max	0.001	19	0	14	0.002	18	0	18	NC	21	NC	21
450			min	0	20	0	13	-0.001	21	0	21	NC	1	NC	1
451	M3	1	max	0.002	21	0.001	12	0	21	0	5	NC	21	NC	21
452			min	-0.003	18	0	15	-0.005	18	0	15	NC	1	NC	1
453		2	max	0.002	21	0.001	12	-0.015	21	0	5	NC	21	3632.435	20
454			min	-0.003	18	0	15	-0.132	3	0	15	NC	1	398.813	3
455		3	max	0.002	21	0	12	-0.02	14	0	5	NC	21	2588.11	20
456			min	-0.003	18	0	15	-0.183	3	0	15	NC	1	284.154	3
457		4	max	0.002	21	0	14	-0.014	20	0	5	NC	21	3632.435	15
458			min	-0.003	18	0	3	-0.131	3	0	21	NC	1	398.813	3
459		5	max	0.002	21	0	15	0	20	0	15	NC	21	NC	21
460			min	-0.003	18	-0.001	3	-0.003	19	0	12	NC	1	NC	1
461	M58	1	max	0.001	19	0	14	0.002	18	0	18	NC	21	NC	21
462			min	0	20	0	13	-0.001	21	0	21	NC	1	NC	1
463		2	max	0.001	19	0	2	0.001	18	0	18	NC	21	NC	21
464			min	0	20	-0.001	13	-0.001	17	0	21	NC	1	NC	1
465		3	max	0.001	19	0	2	0.001	18	0	18	NC	21	NC	21
466			min	0	20	-0.001	13	-0.001	17	0	21	NC	1	NC	1
467		4	max	0	19	0	2	0	2	0	18	NC	21	NC	21
468			min	0	20	-0.001	19	-0.001	17	0	21	NC	1	NC	1
469		5	max	0	21	0	21	0	21	0	18	NC	21	NC	21
470			min	0	1	0	1	0	1	0	21	NC	1	NC	1
471	M46	1	max	0	21	0	21	0	21	0	20	NC	21	NC	21
472			min	0	1	0	1	0	1	0	19	NC	1	NC	1
473		2	max	0	15	0	2	0	2	0	20	NC	21	NC	21
474			min	-0.001	3	-0.001	18	-0.001	17	0	17	NC	1	NC	1
475		3	max	0	15	0	2	0	2	0	20	NC	21	NC	21
476			min	-0.002	3	-0.001	18	-0.001	17	0	17	NC	1	NC	1
477		4	max	0	15	0	21	0.001	18	0	18	NC	21	NC	21
478			min	-0.002	3	-0.001	18	-0.001	17	0	21	NC	1	NC	1
479		5	max	0	15	0	21	0.002	18	0	18	NC	21	NC	21
480			min	-0.003	3	0	18	-0.001	21	0	21	NC	1	NC	1
481	M4	1	max	0.005	18	0.001	5	0	20	0	12	NC	21	NC	21
482			min	-0.002	21	0	20	-0.003	19	0	15	NC	1	NC	1
483		2	max	0.005	18	0.001	5	-0.014	20	0	14	NC	21	3679.299	21
484			min	-0.002	21	0	14	-0.128	3	0	3	NC	1	409.307	3
485		3	max	0.005	18	0	13	-0.02	15	0	15	NC	21	2621.5	21
486			min	-0.002	21	0	8	-0.18	3	0	3	NC	1	291.631	3
487		4	max	0.005	18	0	15	-0.015	21	0	15	NC	21	3679.299	21
488			min	-0.002	21	0	12	-0.13	3	0	3	NC	1	409.307	3
489		5	max	0.005	18	0	15	-0.001	21	0	15	NC	21	NC	21
490			min	-0.002	21	-0.001	12	-0.007	3	0	3	NC	1	NC	1

Envelope AA ADM1-20: ASD - BUILDING Member Aluminum Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/Om[lb]	Pnt/Om[lb]	Mny/Om[lb-ft]	Mnz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
1	M3	EDGEBEAM	0.358	2.125	5	0.046	4.25	z	5	8315.995	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1
2	M4	EDGEBEAM	0.349	2.125	5	0.044	4.25	z	5	8315.995	28012.821	1664.434	684.176	6153.846	12307.692	1	H.1-1

Envelope AA ADM1-20: ASD - BUILDING Member Aluminum Code Checks (Continued)

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/Om[lb]	Pnt/Om[lb]	Mny/Om[lb-ft]	Mnz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
3	M10	EDGEBEAM	0.315	0	5	0.023	1.75	z	5	23718.454	28012.821	1664.434	711.07	6153.846	12307.692	1	H.1-1
4	M7	EDGEBEAM	0.312	2	5	0.011	0	z	5	22739.016	28012.821	1664.434	601.675	6153.846	12307.692	1	H.1-1
5	M6	EDGEBEAM	0.225	0.5	5	0.059	0	z	5	24913.342	28012.821	1664.434	679.986	6153.846	12307.692	1	H.1-1
6	M30	USC4X1.85	0.184	0	5	0.015	0	y	5	30033.562	30594.872	757.576	3385.101	8861.538	11551.015	1.015	H.1-1
7	M12	USC4X1.85	0.181	0	5	0.024	0	y	5	30033.562	30594.872	757.576	3385.101	8861.538	11551.015	1.057	H.1-1
8	M33	USC4X1.85	0.18	0	5	0.011	1.04	y	5	30033.562	30594.872	757.576	3385.101	8861.538	11551.015	1.007	H.1-1
9	M37	USC4X1.85	0.175	0	5	0.012	1.04	y	5	30033.562	30594.872	757.576	3385.101	8861.538	11551.015	1.048	H.1-1
10	M57	L2X2X0.25	0.17	0	5	0	0	y	19	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
11	M46	L2X2X0.25	0.169	4.095	5	0	4.095	y	5	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
12	M26	USC4X1.85	0.16	0	5	0.14	0.75	y	5	32571.894	30594.872	641.026	3385.101	8861.538	11551.015	1.736	H.1-1
13	M41	USC4X1.85	0.158	0	5	0.015	1.04	y	5	30033.562	30594.872	757.576	3385.101	8861.538	11551.015	1.108	H.1-1
14	M1	RT2X2X0.125	0.154	0	5	0	7	z	5	4017.322	18278.974	975.758	975.758	5000	5000	1.748	H.1-1
15	M45	USC4X1.85	0.143	0	5	0.019	1.04	y	5	30033.562	30594.872	757.576	3385.101	8861.538	11551.015	1.228	H.1-1
16	M35	USC4X1.85	0.132	1.04	5	0.009	1.04	y	13	30033.562	30594.872	641.026	3385.101	8861.538	11551.015	1.017	H.1-1
17	M49	USC4X1.85	0.132	0	5	0.023	1.04	y	5	30033.562	30594.872	641.026	3385.101	8861.538	11551.015	1.689	H.1-1
18	M31	USC4X1.85	0.129	1.04	5	0.011	0	y	5	30033.562	30594.872	641.026	3385.101	8861.538	11551.015	1.017	H.1-1
19	M28	USC4X1.85	0.123	1.04	5	0.019	0	y	5	30033.562	30594.872	641.026	3385.101	8861.538	11551.015	1.086	H.1-1
20	M60	L2X2X0.25	0.121	2.474	18	0	0	y	17	2930.033	18395.897	602.75	667.639	5769.231	5769.231	1	H.1-1
21	M39	USC4X1.85	0.12	0	5	0.011	1.04	y	13	30033.562	30594.872	641.026	3385.101	8861.538	11551.015	1.087	H.1-1
22	M61	L2X2X0.25	0.12	0	19	0	0	y	5	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
23	M53	L2X2X0.25	0.119	4.095	18	0	4.095	y	17	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
24	M52	L2X2X0.25	0.119	4.095	19	0	4.095	y	5	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
25	M43	USC4X1.85	0.114	0	5	0.015	1.04	y	13	30033.562	30594.872	641.026	3385.101	8861.538	11551.015	1.212	H.1-1
26	M2	RT2X2X0.125	0.108	0	18	0	7	z	5	4017.322	18278.974	975.758	975.758	5000	5000	1.753	H.1-1
27	M47	USC4X1.85	0.107	0	5	0.019	1.04	y	5	30033.562	30594.872	641.026	3385.101	8861.538	11551.015	1.675	H.1-1
28	M54	L2X2X0.25	0.101	0	19	0	0	y	5	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
29	M44	L2X2X0.25	0.101	4.095	19	0	4.095	y	5	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
30	M11	USC4X1.85	0.098	1.04	5	0.028	0	y	5	30033.562	30594.872	641.026	3385.101	8861.538	11551.015	1.207	H.1-1
31	M55	L2X2X0.25	0.097	0	18	0	0	y	19	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
32	M42	L2X2X0.25	0.097	1.408	18	0	4.095	y	17	2930.033	18395.897	602.75	667.639	5769.231	5769.231	1	H.1-1
33	M56	L2X2X0.25	0.097	2.559	18	0	0	y	9	2930.033	18395.897	602.75	667.639	5769.231	5769.231	1	H.1-1
34	M48	L2X2X0.25	0.097	4.095	18	0	4.095	y	18	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
35	M25	USC4X1.85	0.086	0	5	0.064	0.75	y	5	32571.894	30594.872	641.026	3385.101	8861.538	11551.015	1.719	H.1-1
36	M51	L2X2X0.25	0.08	4.095	19	0	4.095	y	13	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
37	M58	L2X2X0.25	0.08	0	19	0	0	y	9	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
38	M9	RT2X2X0.125	0.065	0	19	0	7	y	19	4017.322	18278.974	975.758	975.758	5000	5000	1.749	H.1-1
39	M8	RT2X2X0.125	0.064	0	19	0	7	y	19	4017.322	18278.974	975.758	975.758	5000	5000	1.746	H.1-1
40	M40	AACS4X1.74	0.056	0	12	0.005	2	z	12	22985.587	28841.026	1183.044	3302.271	7384.615	11323.077	1.722	H.1-1
41	M59	L2X2X0.25	0.054	0	19	0	0	y	19	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
42	M50	L2X2X0.25	0.054	4.095	19	0	4.095	y	5	2930.033	18395.897	441.491	667.639	5769.231	5769.231	1	H.1-1
43	M5	EDGEBEAM	0.05	2.125	9	0.005	4.25	z	5	8315.995	28012.821	1664.434	534.146	6153.846	12307.692	1	H.1-1
44	M38	AACS4X1.74	0.04	0	12	0.004	2	z	13	22985.587	28841.026	1183.044	3303.005	7384.615	11323.077	1.726	H.1-1
45	M36	AACS4X1.74	0.039	0	12	0.005	2	z	13	22985.587	28841.026	1183.044	3303.049	7384.615	11323.077	1.726	H.1-1
46	M34	AACS4X1.74	0.038	0	12	0.007	2	z	5	22985.587	28841.026	1183.044	3303.132	7384.615	11323.077	1.727	H.1-1
47	M32	AACS4X1.74	0.038	0	12	0.01	2	z	5	22985.587	28841.026	1183.044	3302.651	7384.615	11323.077	1.724	H.1-1
48	M29	AACS4X1.74	0.036	0	12	0.012	2	z	5	22985.587	28841.026	1183.044	3305.477	7384.615	11323.077	1.74	H.1-1
49	M27	AACS4X1.74	0.03	0	12	0.017	2	y	5	22985.587	28841.026	1183.044	3307.284	7384.615	11323.077	1.751	H.1-1

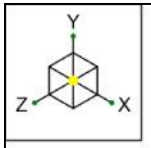
Load Combination Design

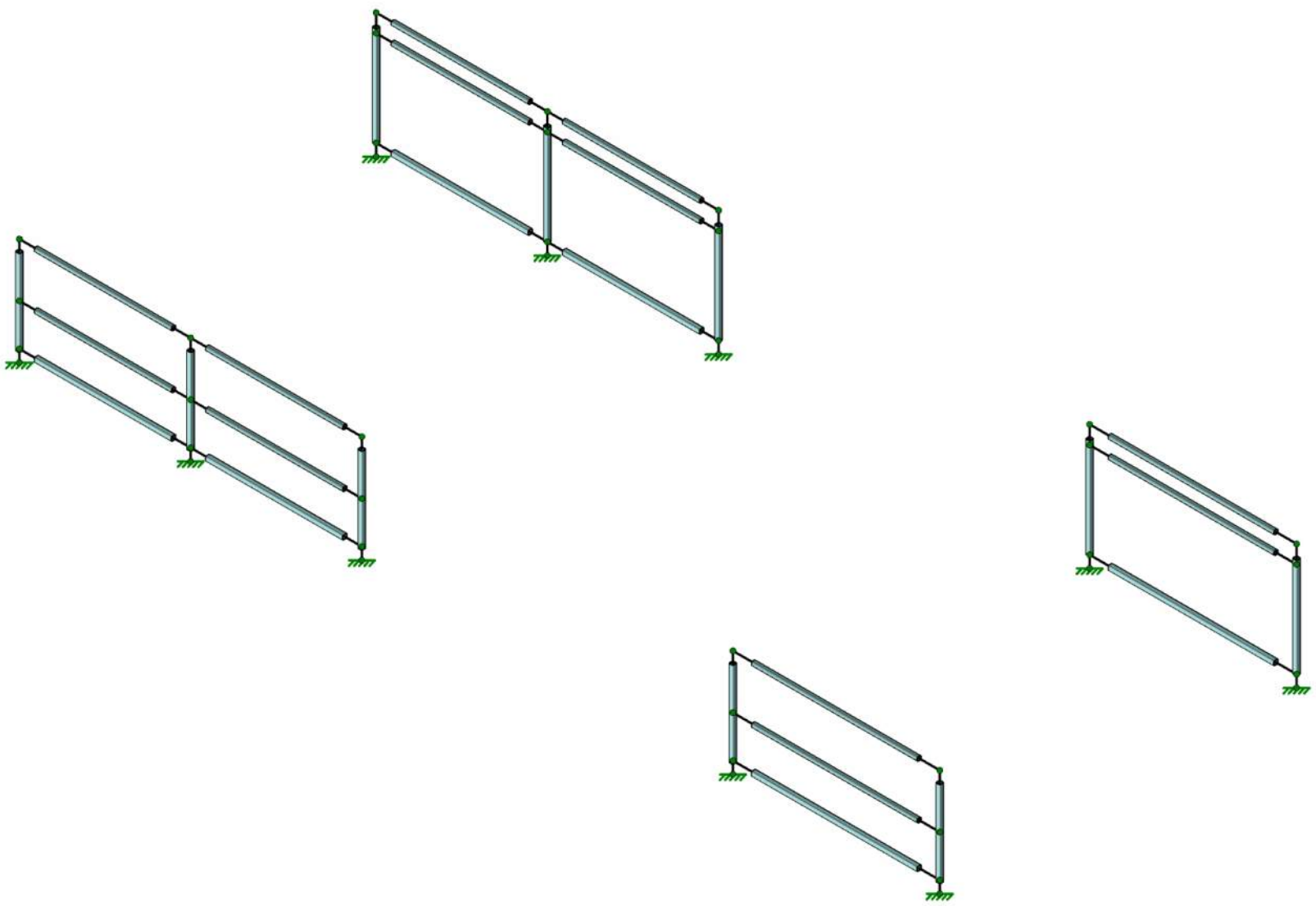
	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
1	Deflection 1		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	Deflection 2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	Deflection 3		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	IBC 21/ASCE ASD 1	0.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	IBC 21/ASCE ASD 2		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Load Combination Design (Continued)

	Description	CD	Service	Hot Rolled	Cold Formed	Wood	Concrete	Masonry	Aluminum	Stainless	Connection
6	IBC 21/ASCE ASD 3 (b)	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	IBC 21/ASCE ASD 4 (b)	1.15	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8	IBC 21/ASCE ASD 5 (a) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	IBC 21/ASCE ASD 5 (a) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	IBC 21/ASCE ASD 6 (a) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	IBC 21/ASCE ASD 6 (a) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12	IBC 21/ASCE ASD 6 (b) (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13	IBC 21/ASCE ASD 6 (b) (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14	IBC 21/ASCE ASD 7 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
15	IBC 21/ASCE ASD 7 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
16	IBC 21/ASCE ASD 8 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
17	IBC 21/ASCE ASD 8 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
18	IBC 21/ASCE ASD 9 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19	IBC 21/ASCE ASD 9 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
20	IBC 21/ASCE ASD 10 (a)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
21	IBC 21/ASCE ASD 10 (b)	1.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

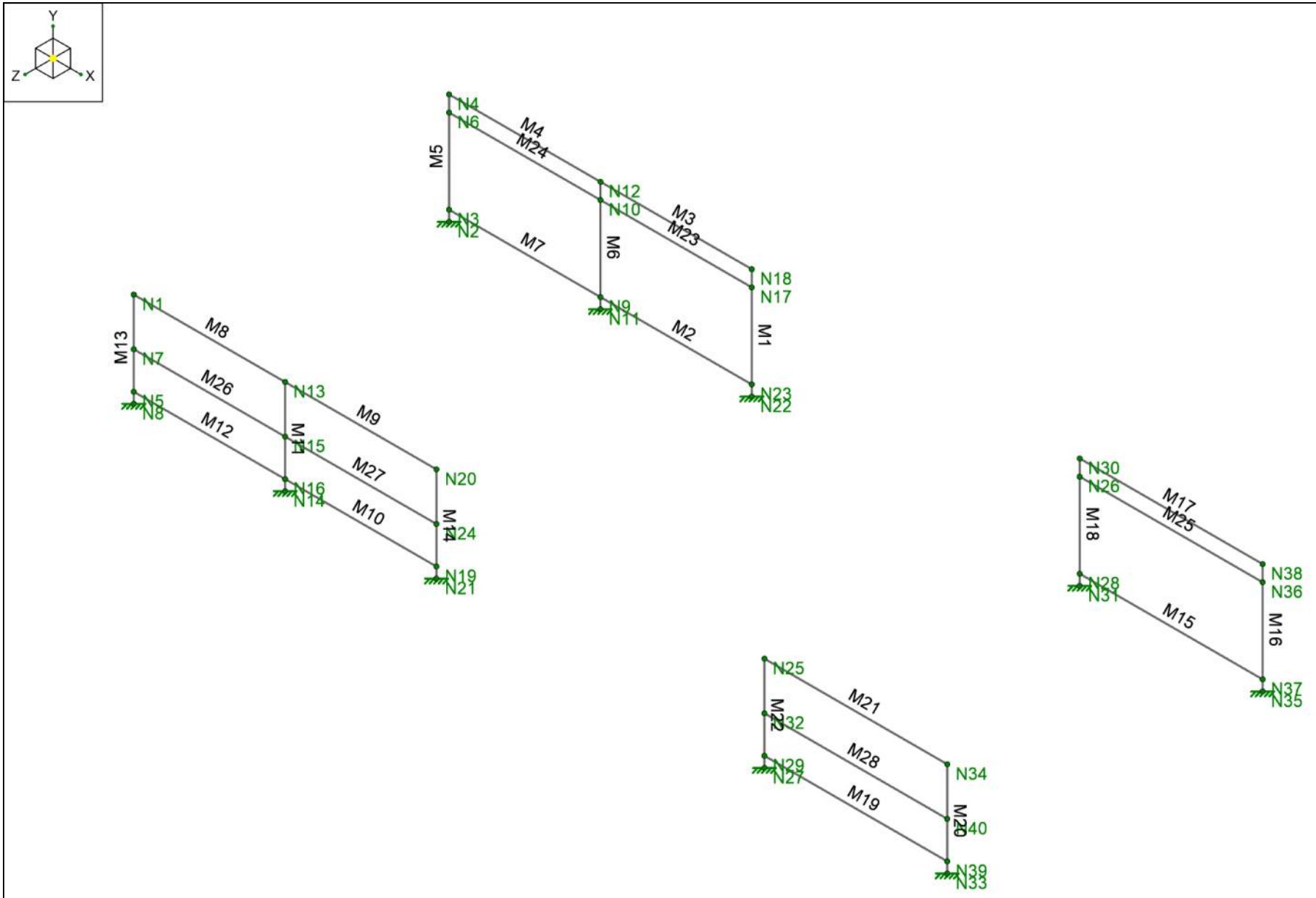
RAILING DESIGN





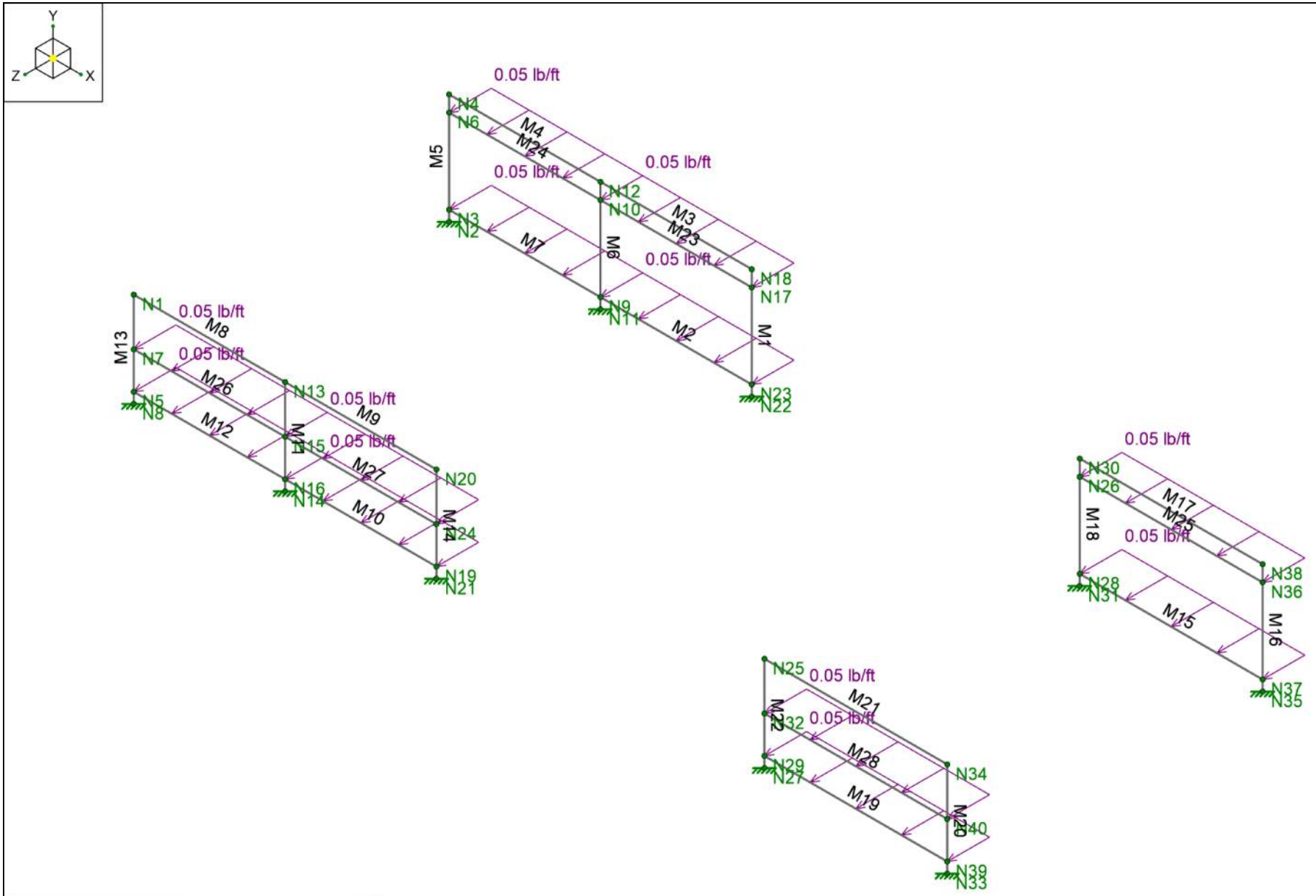
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Welcome Ramp Standards	SK-1
	AMP		Oct 20, 2024 at 04:43 PM
	2240887.20		Typical Railing



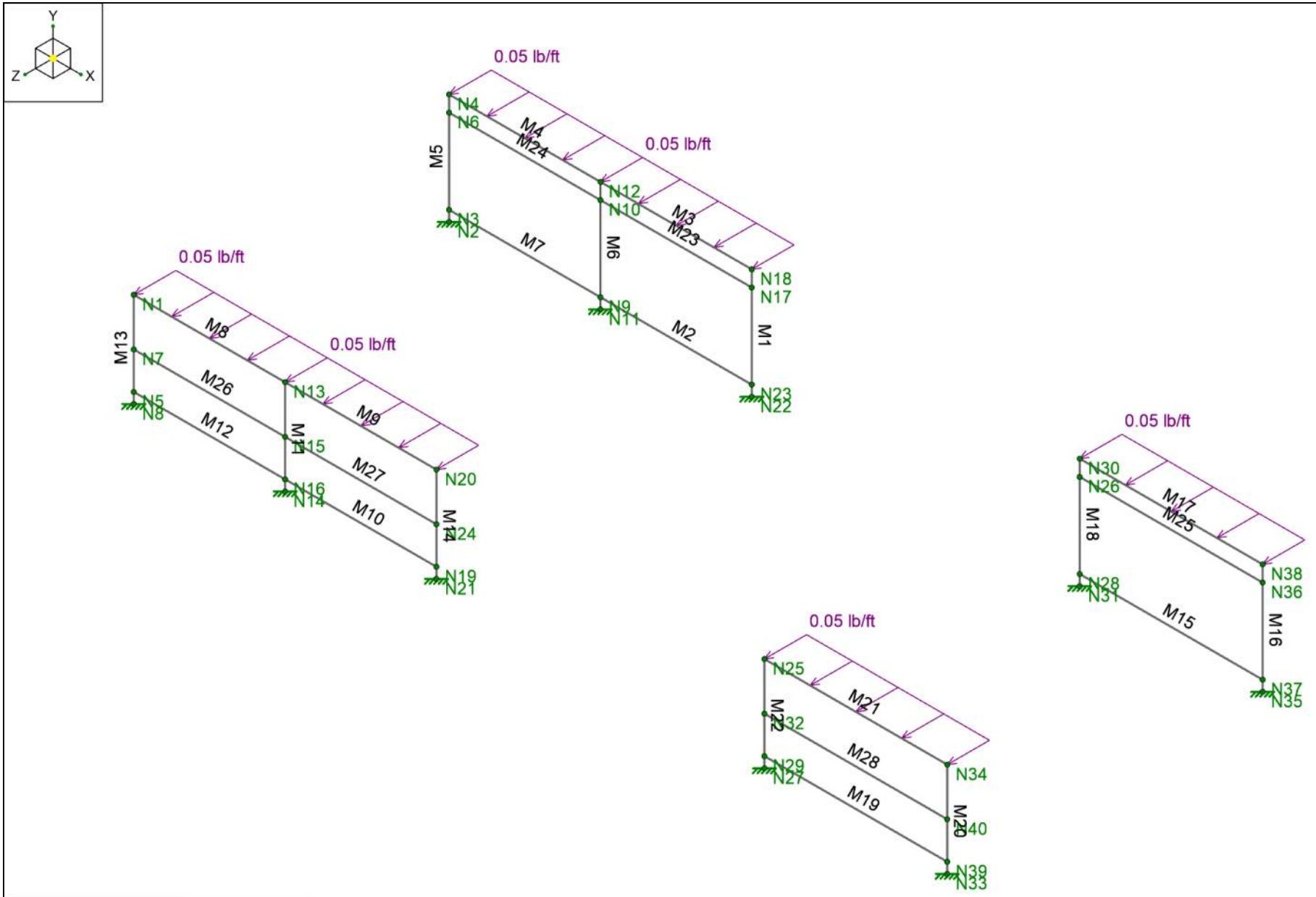
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Welcome Ramp Standards	SK-2
	AMP		Oct 20, 2024 at 04:43 PM
	2240887.20		Typical Railing



Loads: BLC 2, Uniform Live - Intermediate Rail
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Welcome Ramp Standards	SK-3
	AMP		Oct 20, 2024 at 04:43 PM
	2240887.20		Typical Railing



Loads: BLC 3, Uniform Live - Top Rail
Envelope Only Solution

RISA A NEMETSCHEK COMPANY	AHBL, Inc.	Welcome Ramp Standards	SK-4
	AMP		Oct 20, 2024 at 04:43 PM
	2240887.20		Typical Railing

Node Coordinates

	Label	X [ft]	Y [ft]	Z [ft]	Detach From Diaphragm
1	N1	0	3	10	
2	N2	0	0	0	
3	N3	0	0.333	0	
4	N4	0	3.5	0	
5	N5	0	0.333	10	
6	N6	0	3	0	
7	N7	0	1.5	10	
8	N8	0	0	10	
9	N9	4.8	0.333	0	
10	N10	4.8	3	0	
11	N11	4.8	0	0	
12	N12	4.8	3.5	0	
13	N13	4.8	3	10	
14	N14	4.8	0	10	
15	N15	4.8	1.5	10	
16	N16	4.8	0.333	10	
17	N17	9.6	3	0	
18	N18	9.6	3.5	0	
19	N19	9.6	0.333	10	
20	N20	9.6	3	10	
21	N21	9.6	0	10	
22	N22	9.6	0	0	
23	N23	9.6	0.333	0	
24	N24	9.6	1.5	10	
25	N25	20	3	10	
26	N26	20	3	0	
27	N27	20	0	10	
28	N28	20	0.333	0	
29	N29	20	0.333	10	
30	N30	20	3.5	0	
31	N31	20	0	0	
32	N32	20	1.5	10	
33	N33	25.8	0	10	
34	N34	25.8	3	10	
35	N35	25.8	0	0	
36	N36	25.8	3	0	
37	N37	25.8	0.333	0	
38	N38	25.8	3.5	0	
39	N39	25.8	0.333	10	
40	N40	25.8	1.5	10	

Node Boundary Conditions

	Node Label	X [k/in]	Y [k/in]	Z [k/in]	X Rot [k-ft/rad]	Y Rot [k-ft/rad]	Z Rot [k-ft/rad]
1	N2	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
2	N11	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
3	N22	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
4	N21	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
5	N14	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
6	N8	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
7	N31	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
8	N35	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
9	N27	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction
10	N33	Reaction	Reaction	Reaction	Reaction	Reaction	Reaction

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Ry	Fu [ksi]	Rt
1	A992	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	0.3	0.65	0.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	0.3	0.65	0.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	0.3	0.65	0.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	0.3	0.65	0.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	0.3	0.65	0.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	0.3	0.65	0.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	0.3	0.65	0.49	35	1.6	60	1.2
9	A1085	29000	11154	0.3	0.65	0.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	0.3	0.65	0.49	65	1.1	80	1.1

Cold Formed Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Yield [ksi]	Fu [ksi]
1	A653 SS Gr33	29500	11346	0.3	0.65	0.49	33	45
2	A653 SS Gr50/1	29500	11346	0.3	0.65	0.49	50	65

Wood Properties

	Label	Type	Database	Species	Grade	Cm	Ci	Emod	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]
1	DF	Solid Sawn	Visually Graded	Douglas Fir-Larch	No.1			1	0.3	0.3	0.035
2	SP	Solid Sawn	Visually Graded	Southern Pine	No.1			1	0.3	0.3	0.035
3	HF	Solid Sawn	Visually Graded	Hem-Fir	No.1			1	0.3	0.3	0.035
4	SPF	Solid Sawn	Visually Graded	Spruce-Pine-fir	No.1			1	0.3	0.3	0.035
5	24F-1.8E DF Balanced	Glulam	NDS Table 5A	24F-1.8E_DF_BAL	na			1	0.3	0.3	0.035
6	24F-1.8E DF Unbalanced	Glulam	NDS Table 5A	24F-1.8E_DF_UNBAL	na			1	0.3	0.3	0.035
7	24F-1.8E SP Balanced	Glulam	NDS Table 5A	24F-1.8E_SP_BAL	na			1	0.3	0.3	0.035
8	24F-1.8E SP Unbalanced	Glulam	NDS Table 5A	24F-1.8E_SP_UNBAL	na			1	0.3	0.3	0.035
9	1.3E-1600F_VERSALAM	SCL	Boise Cascade	1.3E-1600F_VERSALAM	na			1	0.3	0.3	0.035
10	1.35E LSL_SolidStart	SCL	Louisiana Pacific	1.35E LSL_SolidStart	na			1	0.3	0.3	0.035
11	1.3E_RIGIDLAM LVL	SCL	Roseburg Forest Products_2012	1.3E_RIGIDLAM LVL	na			1	0.3	0.3	0.035
12	2.0E_DF Parallam PSL	SCL	TrusJoist	2.0E_DF Parallam PSL	na			1	0.3	0.3	0.035
13	LVL_PRL_1.5E_2250F	Custom	N/A	LVL_PRL_1.5E_2250F	na			1	0.3	0.3	0.035
14	LVL_Microlam_1.9E_2600F	Custom	N/A	LVL_Microllam_1.9E_2600F	na			1	0.3	0.3	0.035
15	PSL_Parallam_2.0E_2900F	Custom	N/A	PSL_Parallam_2.0E_2900F	na			1	0.3	0.3	0.035
16	LSL_TimberStrand_1.55E_2325F	Custom	N/A	LSL_TimberStrand_1.55E_2325F	na			1	0.3	0.3	0.035

Concrete Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	f'c [ksi]	Lambda	Flex Steel [ksi]	Shear Steel [ksi]
1	Conc3000NW	3156	1372	0.15	0.6	0.145	3	1	60	60
2	Conc3500NW	3409	1482	0.15	0.6	0.145	3.5	1	60	60
3	Conc4000NW	3644	1584	0.15	0.6	0.145	4	1	60	60
4	Conc3000LW	2085	907	0.15	0.6	0.11	3	0.75	60	60
5	Conc3500LW	2252	979	0.15	0.6	0.11	3.5	0.75	60	60
6	Conc4000LW	2408	1047	0.15	0.6	0.11	4	0.75	60	60

Masonry Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Self Weight [k/ft³]	f'm [ksi]	Flex Steel [ksi]	Shear Steel [ksi]
1	Concrete Matl	1350	540	0.25	0.6	Custom	1.5	60	60
2	Clay Matl	1050	420	0.25	0.6	Custom	1.5	60	60
3	Gen Masonry	1050	420	0.25	0.6	0.08	1.5	60	60

Aluminum Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Table B.4	kt	Ftu [ksi]	Fty [ksi]	Fcy [ksi]	Fsu [ksi]	Ct
1	3003-H14	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	19	16	13	12	141
2	6061-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	38	35	35	24	141
3	6063-T5	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	22	16	16	13	141
4	6063-T6	10100	3787.5	0.33	1.3	0.173	Table B.4-2	1	30	25	25	19	141
5	5052-H34	10200	3787.5	0.33	1.3	0.173	Table B.4-1	1	34	26	24	20	141
6	6061-T6 W	10100	3787.5	0.33	1.3	0.173	Table B.4-1	1	24	15	15	15	141

Stainless Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	n	Yield [ksi]	Fu [ksi]
1	A276 S316	28000	10780	0.3	0.93	0.5	5.6	30	75
2	A276 S321	29000	11165	0.3	0.73	0.48	5.6	65	94
3	A276 S304	28000	10780	0.3	0.93	0.49	5.6	30	75

General Materials Properties

	Label	E [ksi]	G [ksi]	Nu	Therm. Coeff. [1e⁵°F⁻¹]	Density [k/ft³]	Plate Methodology
1	gen_Conc3NW	3155	1372	0.15	0.6	0.145	Isotropic
2	gen_Conc4NW	3644	1584	0.15	0.6	0.145	Isotropic
3	gen_Conc3LW	2085	906	0.15	0.6	0.11	Isotropic
4	gen_Conc4LW	2408	1047	0.15	0.6	0.11	Isotropic
5	gen_Alum	10100	4077	0.3	1.29	0.173	Isotropic
6	gen_Steel	29000	11154	0.3	0.65	0.49	Isotropic
7	gen_Plywood	1800	38	0	0.3	0.035	Isotropic
8	RIGID	1e+6		0.3	0	0	Isotropic
9	gen_Ortho				0.65	0.49	Orthotropic

Aluminum Section Sets

	Label	Shape	Type	Design List	Material	Design Rule	Area [in²]	Iyy [in⁴]	Izz [in⁴]	J [in⁴]
1	Horiz Guard	RT1.5X1.5X0.156	Beam	Rectangular Tubes	6061-T6	Typical	0.839	0.256	0.256	0.379
2	Post 1875 6061-T6	RT1.5X1.5X.1875	Column	Rectangular Tubes	6061-T6	Typical	0.987	0.289	0.289	0.425
3	Handrail	1.500ODX0.188	Beam	Pipe	6063-T5	Typical	0.775	0.17	0.17	0.333
4	POST 1875 6063-T5	RT1.5X1.5X.1875	Column	Rectangular Tubes	6063-T5	Typical	0.987	0.289	0.289	0.425

Member Primary Data

	Label	I Node	J Node	Section/Shape	Type	Design List	Material	Design Rule
1	M1	N18	N22	Post 1875 6061-T6	Column	Rectangular Tubes	6061-T6	Typical
2	M2	N9	N23	Horiz Guard	Beam	Rectangular Tubes	6061-T6	Typical
3	M3	N12	N18	Handrail	Beam	Pipe	6063-T5	Typical
4	M4	N4	N12	Handrail	Beam	Pipe	6063-T5	Typical
5	M5	N2	N4	Post 1875 6061-T6	Column	Rectangular Tubes	6061-T6	Typical
6	M6	N12	N11	Post 1875 6061-T6	Column	Rectangular Tubes	6061-T6	Typical
7	M7	N3	N9	Horiz Guard	Beam	Rectangular Tubes	6061-T6	Typical
8	M8	N1	N13	Handrail	Beam	Pipe	6063-T5	Typical
9	M9	N13	N20	Handrail	Beam	Pipe	6063-T5	Typical
10	M10	N16	N19	Horiz Guard	Beam	Rectangular Tubes	6061-T6	Typical
11	M11	N13	N14	Post 1875 6061-T6	Column	Rectangular Tubes	6061-T6	Typical
12	M12	N5	N16	Horiz Guard	Beam	Rectangular Tubes	6061-T6	Typical
13	M13	N8	N1	Post 1875 6061-T6	Column	Rectangular Tubes	6061-T6	Typical
14	M14	N20	N21	Post 1875 6061-T6	Column	Rectangular Tubes	6061-T6	Typical
15	M15	N28	N37	Horiz Guard	Beam	Rectangular Tubes	6061-T6	Typical

Member Primary Data (Continued)

	Label	I Node	J Node	Section/Shape	Type	Design List	Material	Design Rule
16	M16	N38	N35	Post 1875 6061-T6	Column	Rectangular Tubes	6061-T6	Typical
17	M17	N30	N38	Handrail	Beam	Pipe	6063-T5	Typical
18	M18	N30	N31	Post 1875 6061-T6	Column	Rectangular Tubes	6061-T6	Typical
19	M19	N29	N39	Horiz Guard	Beam	Rectangular Tubes	6061-T6	Typical
20	M20	N34	N33	Post 1875 6061-T6	Column	Rectangular Tubes	6061-T6	Typical
21	M21	N25	N34	Handrail	Beam	Pipe	6063-T5	Typical
22	M22	N25	N27	Post 1875 6061-T6	Column	Rectangular Tubes	6061-T6	Typical
23	M23	N10	N17	Handrail	Beam	Pipe	6063-T5	Typical
24	M24	N6	N10	Handrail	Beam	Pipe	6063-T5	Typical
25	M25	N26	N36	Handrail	Beam	Pipe	6063-T5	Typical
26	M26	N7	N15	Handrail	Beam	Pipe	6063-T5	Typical
27	M27	N15	N24	Handrail	Beam	Pipe	6063-T5	Typical
28	M28	N32	N40	Handrail	Beam	Pipe	6063-T5	Typical

Member Advanced Data

	Label	Col-Wall Vert Release	Physical	Deflection Ratio Options	Seismic DR
1	M1		Yes	** NA **	None
2	M2		Yes	Default	None
3	M3		Yes	Default	None
4	M4		Yes	Default	None
5	M5		Yes	** NA **	None
6	M6		Yes	** NA **	None
7	M7		Yes	Default	None
8	M8		Yes	Default	None
9	M9		Yes	Default	None
10	M10		Yes	Default	None
11	M11		Yes	** NA **	None
12	M12		Yes	Default	None
13	M13		Yes	** NA **	None
14	M14		Yes	** NA **	None
15	M15		Yes	Default	None
16	M16		Yes	** NA **	None
17	M17		Yes	Default	None
18	M18		Yes	** NA **	None
19	M19		Yes	Default	None
20	M20		Yes	** NA **	None
21	M21		Yes	Default	None
22	M22		Yes	** NA **	None
23	M23		Yes	Default	None
24	M24		Yes	Default	None
25	M25		Yes	Default	None
26	M26		Yes	Default	None
27	M27		Yes	Default	None
28	M28		Yes	Default	None

Aluminum Design Parameters

	Label	Shape	Length [ft]	Lcomp top [ft]	Function
1	M1	Post 1875 6061-T6	3.5	Lbyy	Lateral
2	M2	Horiz Guard	4.8	Lbyy	Lateral
3	M3	Handrail	4.8	Lbyy	Lateral
4	M4	Handrail	4.8	Lbyy	Lateral
5	M5	Post 1875 6061-T6	3.5	Lbyy	Lateral
6	M6	Post 1875 6061-T6	3.5	Lbyy	Lateral

Aluminum Design Parameters (Continued)

	Label	Shape	Length [ft]	Lcomp top [ft]	Function
7	M7	Horiz Guard	4.8	Lbyy	Lateral
8	M8	Handrail	4.8	Lbyy	Lateral
9	M9	Handrail	4.8	Lbyy	Lateral
10	M10	Horiz Guard	4.8	Lbyy	Lateral
11	M11	Post 1875 6061-T6	3	Lbyy	Lateral
12	M12	Horiz Guard	4.8	Lbyy	Lateral
13	M13	Post 1875 6061-T6	3	Lbyy	Lateral
14	M14	Post 1875 6061-T6	3	Lbyy	Lateral
15	M15	Horiz Guard	5.8	Lbyy	Lateral
16	M16	Post 1875 6061-T6	3.5	Lbyy	Lateral
17	M17	Handrail	5.8	Lbyy	Lateral
18	M18	Post 1875 6061-T6	3.5	Lbyy	Lateral
19	M19	Horiz Guard	5.8	Lbyy	Lateral
20	M20	Post 1875 6061-T6	3	Lbyy	Lateral
21	M21	Handrail	5.8	Lbyy	Lateral
22	M22	Post 1875 6061-T6	3	Lbyy	Lateral
23	M23	Handrail	4.8	Lbyy	Lateral
24	M24	Handrail	4.8	Lbyy	Lateral
25	M25	Handrail	5.8	Lbyy	Lateral
26	M26	Handrail	4.8	Lbyy	Lateral
27	M27	Handrail	4.8	Lbyy	Lateral
28	M28	Handrail	5.8	Lbyy	Lateral

Nodal Loads and Enforced Displacements

No Data to Print...

Member Point Loads

No Data to Print...

Member Distributed Loads (BLC 2 : Uniform Live - Intermediate Rail)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M26	Z	0.05	0.05	0	%100
2	M27	Z	0.05	0.05	0	%100
3	M12	Z	0.05	0.05	0	%100
4	M10	Z	0.05	0.05	0	%100
5	M7	Z	0.05	0.05	0	%100
6	M2	Z	0.05	0.05	0	%100
7	M19	Z	0.05	0.05	0	%100
8	M28	Z	0.05	0.05	0	%100
9	M15	Z	0.05	0.05	0	%100
10	M24	Z	0.05	0.05	0	%100
11	M23	Z	0.05	0.05	0	%100
12	M25	Z	0.05	0.05	0	%100

Member Distributed Loads (BLC 3 : Uniform Live - Top Rail)

	Member Label	Direction	Start Magnitude [lb/ft, F, psf, lb-ft/ft]	End Magnitude [lb/ft, F, psf, lb-ft/ft]	Start Location [(ft, %)]	End Location [(ft, %)]
1	M8	Z	0.05	0.05	0	%100
2	M9	Z	0.05	0.05	0	%100
3	M4	Z	0.05	0.05	0	%100
4	M3	Z	0.05	0.05	0	%100
5	M21	Z	0.05	0.05	0	%100
6	M17	Z	0.05	0.05	0	%100

Wall Panel Distributed Loads

No Data to Print...

Diaphragm Distributed Loads

No Data to Print...

Basic Load Cases

	BLC Description	Category	Y Gravity	Distributed
1	Dead Load	DL	-1	
2	Uniform Live - Intermediate Rail	LL		12
3	Uniform Live - Top Rail	LL		6
4	Point Live - Intermediate Rail	LL		
5	Point Live - Hand Rail	LL		
6	Point Live - Top Rail	LL		

Moving Loads

	Tag	Pattern	Increment [ft]	Both Ways	1st Node	2nd Node	3rd Node
1	M1	200#LL	0.5	Yes	N7	N15	N24
2	M2	200#LL	0.5	Yes	N6	N10	N17
3	M3	200#LL	0.5	Yes	N32	N40	
4	M4	200#LL	0.5	Yes	N26	N36	
5	M5	200#LL	0.5	Yes	N1	N13	N20
6	M6	200#LL	0.5	Yes	N4	N12	N18
7	M7	200#LL	0.5	Yes	N25	N34	
8	M8	200#LL	0.5	Yes	N30	N38	

Moving Load Patterns

	Pattern Label	Magnitude [lb]	Direction	Distance [ft]
1	200#LL	200	Z	0

Load Combinations

	Description	Solve	P-Delta	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor	BLC	Factor
1	Dead Load	Yes	C	1	1								
2	D + L Uniform - Intermediate	Yes	C	1	1	2	1						
3	D + L Uniform - Top Rail	Yes	C	1	1	3	1						
4	D + L Point - Intermediate	Yes	C	1	1	M1	1	M3	1				
5	D + L Point - Handrail	Yes	C	1	1	M2	1	M4	1				
6	D + L Point - Top Rail	Yes	C	1	1	M5	1	M6	1	M7	1	M8	1

Envelope Node Reactions

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N2	max	2.564	6-1	10.857	6-1	8.275	6-21	0	4-1	32.588	5-7	0.272	6-1
2		min	2.564	1	10.857	1	-182.085	5-1	-506.608	6-1	-35.691	6-1	0.272	1
3	N11	max	0	6-1	18.235	6-1	0	4-1	0	4-1	26.733	5-16	0	6-1
4		min	0	1	18.235	1	-149.154	5-31	-377.312	6-31	-26.733	5-36	0	1
5	N22	max	-2.564	6-1	10.857	6-1	8.275	6-1	0	4-1	35.691	6-21	-0.272	6-1
6		min	-2.564	1	10.857	1	-182.085	5-21	-506.608	6-21	-32.588	5-27	-0.272	1
7	N21	max	-2.601	6-1	10.29	6-1	10.825	4-6	0	5-1	26.829	6-21	-0.095	6-1
8		min	-2.601	1	10.29	1	-193.892	4-21	-452.694	6-21	-51.114	4-25	-0.095	1
9	N14	max	0	6-1	17.593	6-1	0	5-1	0	5-1	36.175	4-15	0	6-1

Envelope Node Reactions (Continued)

	Node Label		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
10		min	0	1	17.593	1	-182.284	4-31	-352.718	6-11	-36.175	4-35	0	1
11	N8	max	2.601	6-1	10.29	6-1	10.825	4-26	0	5-1	51.114	4-5	0.095	6-1
12		min	2.601	1	10.29	1	-193.892	4-1	-452.694	6-1	-26.829	6-1	0.095	1
13	N31	max	4.872	6-1	12.456	6-1	0	6-13	0	6-13	48.32	5-26	0.231	6-1
14		min	4.872	1	12.456	1	-191.311	5-1	-552.64	6-1	-30.595	6-1	0.231	1
15	N35	max	-4.872	6-1	12.456	6-1	0	6-13	0	6-13	30.595	6-21	-0.231	6-1
16		min	-4.872	1	12.456	1	-191.311	5-21	-552.64	6-21	-48.32	5-6	-0.231	1
17	N27	max	4.461	6-1	11.864	6-1	0	6-13	0	6-13	75.425	4-6	0.041	6-1
18		min	4.461	1	11.864	1	-196.944	4-1	-483.45	6-1	-21.786	6-1	0.041	1
19	N33	max	-4.461	6-1	11.864	6-1	0	6-13	0	6-13	21.786	6-21	-0.041	6-1
20		min	-4.461	1	11.864	1	-196.944	4-21	-483.45	6-21	-75.425	4-26	-0.041	1
21	Totals:	max	0	6-1	126.763	6-1	0	1						
22		min	0	1	126.763	1	-800	6-12						

Envelope Node Displacements

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
1	N1	max	0	6-1	0	6-1	0.966	6-1	3.852e-2	6-1	9.318e-3	6-1	-3.392e-5	6-1
2		min	0	1	0	1	0	1	0	1	-1.288e-2	6-35	-3.392e-5	1
3	N2	max	0	6-1	0	6-1	0	5-1	0	6-1	0	6-1	0	6-1
4		min	0	1	0	1	0	6-21	0	1	0	5-7	0	1
5	N3	max	0	6-1	0	6-1	0.02	6-1	9.796e-3	6-1	1.064e-3	6-1	-1.435e-5	6-1
6		min	0	1	0	1	0	1	0	1	-9.718e-4	5-7	-1.435e-5	1
7	N4	max	0	6-1	0	6-1	1.425	6-1	4.716e-2	6-1	1.388e-2	6-1	-2.845e-5	6-1
8		min	0	1	0	1	0	1	0	1	-1.207e-2	6-8	-2.845e-5	1
9	N5	max	0	6-1	0	6-1	0.018	6-1	8.667e-3	6-1	8.e-4	6-1	-1.085e-5	6-1
10		min	0	1	0	1	0	1	0	1	-1.524e-3	4-5	-1.085e-5	1
11	N6	max	0	6-1	0	6-1	1.14	6-1	4.722e-2	6-1	1.243e-2	6-1	-1.893e-5	6-1
12		min	0	1	0	1	0	1	0	1	-1.028e-2	5-7	-1.893e-5	1
13	N7	max	0	6-1	0	6-1	0.309	6-1	3.007e-2	6-1	4.435e-3	6-1	-8.011e-6	6-1
14		min	0	1	0	1	0	1	0	1	-8.191e-3	4-5	-8.011e-6	1
15	N8	max	0	6-1	0	6-1	0	4-1	0	6-1	0	6-1	0	6-1
16		min	0	1	0	1	0	4-26	0	1	0	4-5	0	1
17	N9	max	0	6-1	0	6-1	0.015	6-31	7.27e-3	6-31	7.971e-4	5-36	0	6-1
18		min	0	1	0	1	0	1	0	1	-7.971e-4	5-16	0	1
19	N10	max	0	6-1	0	6-1	0.843	6-31	3.43e-2	6-31	1.028e-2	5-36	0	6-1
20		min	0	1	0	1	0	1	0	1	-1.028e-2	5-16	0	1
21	N11	max	0	6-1	0	6-1	0	5-31	0	6-31	0	5-36	0	6-1
22		min	0	1	0	1	0	1	0	1	0	5-16	0	1
23	N12	max	0	6-1	0	6-1	1.05	6-31	3.407e-2	6-31	1.276e-2	6-5	0	6-1
24		min	0	1	0	1	0	1	0	1	-1.276e-2	6-25	0	1
25	N13	max	0	6-1	0	6-1	0.742	6-11	2.898e-2	6-11	1.227e-2	6-6	0	6-1
26		min	0	1	0	1	0	1	0	1	-1.227e-2	6-26	0	1
27	N14	max	0	6-1	0	6-1	0	4-11	0	6-11	0	4-35	0	6-1
28		min	0	1	0	1	0	1	0	1	0	4-15	0	1
29	N15	max	0	6-1	0	6-1	0.239	6-11	2.303e-2	6-11	6.548e-3	4-7	0	6-1
30		min	0	1	0	1	0	1	0	1	-6.548e-3	4-27	0	1
31	N16	max	0	6-1	0	6-1	0.014	6-11	6.705e-3	6-11	1.079e-3	4-35	0	6-1
32		min	0	1	0	1	0	1	0	1	-1.079e-3	4-15	0	1
33	N17	max	0	6-1	0	6-1	1.14	6-21	4.722e-2	6-21	1.028e-2	5-27	1.893e-5	6-1
34		min	0	1	0	1	0	1	0	1	-1.243e-2	6-21	1.893e-5	1
35	N18	max	0	6-1	0	6-1	1.425	6-21	4.716e-2	6-21	1.207e-2	6-28	2.845e-5	6-1
36		min	0	1	0	1	0	1	0	1	-1.388e-2	6-21	2.845e-5	1
37	N19	max	0	6-1	0	6-1	0.018	6-21	8.667e-3	6-21	1.524e-3	4-25	1.085e-5	6-1
38		min	0	1	0	1	0	1	0	1	-8.e-4	6-21	1.085e-5	1
39	N20	max	0	6-1	0	6-1	0.966	6-21	3.852e-2	6-21	1.288e-2	6-15	3.392e-5	6-1

Envelope Node Displacements (Continued)

	Node Label		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation [rad]	LC	Y Rotation [rad]	LC	Z Rotation [rad]	LC
40		min	0	1	0	1	0	1	0	1	-9.318e-3	6-21	3.392e-5	1
41	N21	max	0	6-1	0	6-1	0	4-21	0	6-21	0	4-25	0	6-1
42		min	0	1	0	1	0	4-6	0	1	0	6-21	0	1
43	N22	max	0	6-1	0	6-1	0	5-21	0	6-21	0	5-27	0	6-1
44		min	0	1	0	1	0	6-1	0	1	0	6-21	0	1
45	N23	max	0	6-1	0	6-1	0.02	6-21	9.796e-3	6-21	9.718e-4	5-27	1.435e-5	6-1
46		min	0	1	0	1	0	1	0	1	-1.064e-3	6-21	1.435e-5	1
47	N24	max	0	6-1	0	6-1	0.309	6-21	3.007e-2	6-21	8.191e-3	4-25	8.011e-6	6-1
48		min	0	1	0	1	0	1	0	1	-4.435e-3	6-21	8.011e-6	1
49	N25	max	0	6-1	0	6-1	1.037	6-1	4.164e-2	6-1	7.579e-3	6-1	-5.42e-5	6-1
50		min	0	1	0	1	0	1	0	1	-1.879e-2	6-27	-5.42e-5	1
51	N26	max	0	6-1	0	6-1	1.254	6-1	5.246e-2	6-1	1.063e-2	6-1	-2.313e-5	6-1
52		min	0	1	0	1	0	1	0	1	-1.466e-2	5-7	-2.313e-5	1
53	N27	max	0	6-1	0	6-1	0	4-1	0	6-1	0	6-1	0	6-1
54		min	0	1	0	1	0	1	0	1	0	4-6	0	1
55	N28	max	0	6-1	0	6-1	0.022	6-1	1.07e-2	6-1	9.123e-4	6-1	-2.141e-5	6-1
56		min	0	1	0	1	0	1	0	1	-1.441e-3	5-26	-2.141e-5	1
57	N29	max	0	6-1	0	6-1	0.019	6-1	9.273e-3	6-1	6.496e-4	6-1	-1.61e-5	6-1
58		min	0	1	0	1	0	1	0	1	-2.249e-3	4-6	-1.61e-5	1
59	N30	max	0	6-1	0	6-1	1.572	6-1	5.257e-2	6-1	1.184e-2	6-1	-3.609e-5	6-1
60		min	0	1	0	1	0	1	0	1	-1.714e-2	6-26	-3.609e-5	1
61	N31	max	0	6-1	0	6-1	0	5-1	0	6-1	0	6-1	0	6-1
62		min	0	1	0	1	0	1	0	1	0	5-26	0	1
63	N32	max	0	6-1	0	6-1	0.331	6-1	3.231e-2	6-1	3.608e-3	6-1	-1.104e-5	6-1
64		min	0	1	0	1	0	1	0	1	-1.149e-2	4-28	-1.104e-5	1
65	N33	max	0	6-1	0	6-1	0	4-21	0	6-21	0	4-26	0	6-1
66		min	0	1	0	1	0	1	0	1	0	6-21	0	1
67	N34	max	0	6-1	0	6-1	1.037	6-21	4.164e-2	6-21	1.879e-2	6-7	5.42e-5	6-1
68		min	0	1	0	1	0	1	0	1	-7.579e-3	6-21	5.42e-5	1
69	N35	max	0	6-1	0	6-1	0	5-21	0	6-21	0	5-6	0	6-1
70		min	0	1	0	1	0	1	0	1	0	6-21	0	1
71	N36	max	0	6-1	0	6-1	1.254	6-21	5.246e-2	6-21	1.466e-2	5-27	2.313e-5	6-1
72		min	0	1	0	1	0	1	0	1	-1.063e-2	6-21	2.313e-5	1
73	N37	max	0	6-1	0	6-1	0.022	6-21	1.07e-2	6-21	1.441e-3	5-6	2.141e-5	6-1
74		min	0	1	0	1	0	1	0	1	-9.123e-4	6-21	2.141e-5	1
75	N38	max	0	6-1	0	6-1	1.572	6-21	5.257e-2	6-21	1.714e-2	6-6	3.609e-5	6-1
76		min	0	1	0	1	0	1	0	1	-1.184e-2	6-21	3.609e-5	1
77	N39	max	0	6-1	0	6-1	0.019	6-21	9.273e-3	6-21	2.249e-3	4-26	1.61e-5	6-1
78		min	0	1	0	1	0	1	0	1	-6.496e-4	6-21	1.61e-5	1
79	N40	max	0	6-1	0	6-1	0.331	6-21	3.231e-2	6-21	1.149e-2	4-8	1.104e-5	6-1
80		min	0	1	0	1	0	1	0	1	-3.608e-3	6-21	1.104e-5	1

Envelope Member Section Forces

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1	M1	1	max	2.164	6-40	-5.025	6-40	15.89	5-19	55.872	5-18	47.999	6-21	-1.565	6-40
2			min	2.164	1	-5.025	1	-183.9	6-21	-68.31	6-16	-29.909	6-7	-1.565	1
3		2	max	5.387	6-40	-0.499	6-40	5.935	6-1	47.593	6-21	9.37	5-21	-0.506	6-40
4			min	5.387	1	-0.499	1	-178.878	5-21	-38.995	5-27	-71.348	6-31	-0.506	1
5		3	max	6.423	6-40	-0.499	6-40	5.935	6-1	47.593	6-21	0	4-40	-0.069	6-40
6			min	6.423	1	-0.499	1	-178.878	5-21	-38.995	5-27	-212.826	6-21	-0.069	1
7		4	max	7.459	6-40	-0.499	6-40	5.935	6-1	47.593	6-21	0	4-40	0.367	6-40
8			min	7.459	1	-0.499	1	-178.878	5-21	-38.995	5-27	-365.849	6-21	0.367	1
9		5	max	10.857	6-40	-2.564	6-40	8.269	6-1	35.691	6-21	0	4-40	-0.272	6-40
10			min	10.857	1	-2.564	1	-182.162	5-21	-32.588	5-27	-506.608	6-21	-0.272	1
11	M2	1	max	2.066	6-40	2.468	6-40	4.363	6-21	9.582	6-8	9.106	5-6	2.016	6-40

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
12			min	2.066	1	2.468	1	-3.326	6-6	-13.625	6-21	-9.042	6-21	2.016	1
13		2	max	2.066	6-40	1.261	6-40	4.363	6-21	9.582	6-8	5.209	5-36	-0.221	6-40
14			min	2.066	1	1.261	1	-3.326	6-6	-13.625	6-21	-4.568	5-15	-0.221	1
15		3	max	2.066	6-40	0.053	6-40	4.363	6-21	9.582	6-8	1.43	6-21	-1.009	6-40
16			min	2.066	1	0.053	1	-3.326	6-6	-13.625	6-21	-5.182	5-15	-1.009	1
17		4	max	2.066	6-40	-1.155	6-40	4.363	6-21	9.582	6-8	6.666	6-21	-0.348	6-40
18			min	2.066	1	-1.155	1	-3.326	6-6	-13.625	6-21	-5.796	5-15	-0.348	1
19		5	max	2.066	6-40	-2.362	6-40	4.363	6-21	9.582	6-8	11.903	6-21	1.762	6-40
20			min	2.066	1	-2.362	1	-3.326	6-6	-13.625	6-21	-7.873	6-33	1.762	1
21	M3	1	max	5.025	6-40	2.3	6-40	15.707	5-30	29.909	6-7	80.112	6-26	1.893	6-40
22			min	5.025	1	2.3	1	-178.766	6-11	-47.999	6-21	-63.371	5-12	1.893	1
23		2	max	5.025	6-40	1.184	6-40	35.504	6-29	29.909	6-7	26.784	6-21	-0.198	6-40
24			min	5.025	1	1.184	1	-151.531	6-13	-47.999	6-21	-130.647	6-13	-0.198	1
25		3	max	5.025	6-40	0.068	6-40	92.821	6-26	29.909	6-7	14.232	6-38	-0.949	6-40
26			min	5.025	1	0.068	1	-89.707	6-16	-47.999	6-21	-157.117	6-26	-0.949	1
27		4	max	5.025	6-40	-1.048	6-40	135.831	6-24	29.909	6-7	13.094	6-37	-0.362	6-40
28			min	5.025	1	-1.048	1	-48.484	6-18	-47.999	6-21	-111.844	6-18	-0.362	1
29		5	max	5.025	6-40	-2.164	6-40	181.568	6-20	29.909	6-7	68.31	6-16	1.565	6-40
30			min	5.025	1	-2.164	1	-16.41	6-21	-47.999	6-21	-55.872	5-18	1.565	1
31	M4	1	max	5.025	6-40	2.164	6-40	16.41	6-1	47.999	6-1	68.31	6-36	1.565	6-40
32			min	5.025	1	2.164	1	-181.568	6-40	-29.909	6-27	-55.872	5-38	1.565	1
33		2	max	5.025	6-40	1.048	6-40	48.484	6-38	47.999	6-1	13.094	6-17	-0.362	6-40
34			min	5.025	1	1.048	1	-135.831	6-4	-29.909	6-27	-111.844	6-38	-0.362	1
35		3	max	5.025	6-40	-0.068	6-40	89.707	6-36	47.999	6-1	14.232	6-18	-0.949	6-40
36			min	5.025	1	-0.068	1	-92.821	6-6	-29.909	6-27	-157.117	6-6	-0.949	1
37		4	max	5.025	6-40	-1.184	6-40	151.531	6-33	47.999	6-1	26.784	6-1	-0.198	6-40
38			min	5.025	1	-1.184	1	-35.504	6-9	-29.909	6-27	-130.647	6-33	-0.198	1
39		5	max	5.025	6-40	-2.3	6-40	178.766	6-31	47.999	6-1	80.112	6-6	1.893	6-40
40			min	5.025	1	-2.3	1	-15.707	5-10	-29.909	6-27	-63.371	5-32	1.893	1
41	M5	1	max	10.857	6-40	-2.564	6-40	8.269	6-21	32.588	5-7	506.608	6-1	0.272	6-40
42			min	10.857	1	-2.564	1	-182.162	5-1	-35.691	6-1	0	1	0.272	1
43		2	max	7.459	6-40	-0.499	6-40	5.935	6-21	38.995	5-7	365.849	6-1	-0.367	6-40
44			min	7.459	1	-0.499	1	-178.878	5-1	-47.593	6-1	0	1	-0.367	1
45		3	max	6.423	6-40	-0.499	6-40	5.935	6-21	38.995	5-7	212.826	6-1	0.069	6-40
46			min	6.423	1	-0.499	1	-178.878	5-1	-47.593	6-1	0	1	0.069	1
47		4	max	5.387	6-40	-0.499	6-40	5.935	6-21	38.995	5-7	71.348	6-11	0.506	6-40
48			min	5.387	1	-0.499	1	-178.878	5-1	-47.593	6-1	-9.37	5-1	0.506	1
49		5	max	2.164	6-40	-5.025	6-40	15.89	5-39	68.31	6-36	29.909	6-27	1.565	6-40
50			min	2.164	1	-5.025	1	-183.9	6-1	-55.872	5-38	-47.999	6-1	1.565	1
51	M6	1	max	4.601	6-40	0	6-40	29.05	5-11	73.551	6-27	48.159	6-11	0	6-40
52			min	4.601	1	0	1	-163.494	6-11	-73.551	6-7	-24.156	6-21	0	1
53		2	max	10.19	6-40	0	6-40	0	4-40	39.705	5-16	26.37	5-11	0	6-40
54			min	10.19	1	0	1	-146.224	5-31	-39.705	5-36	-71.331	6-1	0	1
55		3	max	11.226	6-40	0	6-40	0	4-40	39.705	5-16	0	4-40	0	6-40
56			min	11.226	1	0	1	-146.224	5-31	-39.705	5-36	-152.802	6-31	0	1
57		4	max	12.262	6-40	0	6-40	0	4-40	39.705	5-16	0	4-40	0	6-40
58			min	12.262	1	0	1	-146.224	5-31	-39.705	5-36	-272.799	6-31	0	1
59		5	max	18.235	6-40	0	6-40	0	4-40	26.733	5-16	0	4-40	0	6-40
60			min	18.235	1	0	1	-149.252	5-31	-26.733	5-36	-377.312	6-31	0	1
61	M7	1	max	2.066	6-40	2.362	6-40	3.326	6-26	13.625	6-1	11.903	6-1	1.762	6-40
62			min	2.066	1	2.362	1	-4.363	6-1	-9.582	6-28	-7.873	6-13	1.762	1
63		2	max	2.066	6-40	1.155	6-40	3.326	6-26	13.625	6-1	6.666	6-1	-0.348	6-40
64			min	2.066	1	1.155	1	-4.363	6-1	-9.582	6-28	-5.796	5-35	-0.348	1
65		3	max	2.066	6-40	-0.053	6-40	3.326	6-26	13.625	6-1	1.43	6-1	-1.009	6-40
66			min	2.066	1	-0.053	1	-4.363	6-1	-9.582	6-28	-5.182	5-35	-1.009	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
67		4	max	2.066	6-40	-1.261	6-40	3.326	6-26	13.625	6-1	5.209	5-16	-0.221	6-40
68			min	2.066	1	-1.261	1	-4.363	6-1	-9.582	6-28	-4.568	5-35	-0.221	1
69		5	max	2.066	6-40	-2.468	6-40	3.326	6-26	13.625	6-1	9.106	5-26	2.016	6-40
70			min	2.066	1	-2.468	1	-4.363	6-1	-9.582	6-28	-9.042	6-1	2.016	1
71	M8	1	max	1.654	6-40	2.15	6-40	17.076	6-1	46.035	6-1	59.331	6-6	1.52	6-40
72			min	1.654	1	2.15	1	-180.317	6-40	-31.839	6-13	-36.349	6-1	1.52	1
73		2	max	1.654	6-40	1.034	6-40	52.357	6-38	46.035	6-1	15.625	6-15	-0.39	6-40
74			min	1.654	1	1.034	1	-132.18	6-4	-31.839	6-13	-120.967	6-38	-0.39	1
75		3	max	1.654	6-40	-0.082	6-40	92.188	6-36	46.035	6-1	17.936	6-16	-0.96	6-40
76			min	1.654	1	-0.082	1	-91.432	6-6	-31.839	6-13	-160.107	6-6	-0.96	1
77		4	max	1.654	6-40	-1.198	6-40	150.153	6-33	46.035	6-1	25.125	6-1	-0.192	6-40
78			min	1.654	1	-1.198	1	-37.302	6-9	-31.839	6-13	-131.919	6-33	-0.192	1
79		5	max	1.654	6-40	-2.314	6-40	177.479	6-31	46.035	6-1	81.064	6-36	1.916	6-40
80			min	1.654	1	-2.314	1	-15.782	6-11	-31.839	6-13	-47.969	6-11	1.916	1
81	M9	1	max	1.654	6-40	2.314	6-40	15.782	6-31	31.839	6-33	81.064	6-16	1.916	6-40
82			min	1.654	1	2.314	1	-177.479	6-11	-46.035	6-21	-47.969	6-31	1.916	1
83		2	max	1.654	6-40	1.198	6-40	37.302	6-29	31.839	6-33	25.125	6-21	-0.192	6-40
84			min	1.654	1	1.198	1	-150.153	6-13	-46.035	6-21	-131.919	6-13	-0.192	1
85		3	max	1.654	6-40	0.082	6-40	91.432	6-26	31.839	6-33	17.936	6-36	-0.96	6-40
86			min	1.654	1	0.082	1	-92.188	6-16	-46.035	6-21	-160.107	6-26	-0.96	1
87		4	max	1.654	6-40	-1.034	6-40	132.18	6-24	31.839	6-33	15.625	6-35	-0.39	6-40
88			min	1.654	1	-1.034	1	-52.357	6-18	-46.035	6-21	-120.967	6-18	-0.39	1
89		5	max	1.654	6-40	-2.15	6-40	180.317	6-20	31.839	6-33	59.331	6-26	1.52	6-40
90			min	1.654	1	-2.15	1	-17.076	6-21	-46.035	6-21	-36.349	6-21	1.52	1
91	M10	1	max	1.224	6-40	2.455	6-40	2.838	6-21	9.586	6-33	10.443	4-35	1.996	6-40
92			min	1.224	1	2.455	1	-2.874	4-35	-12.853	6-21	-6.728	4-28	1.996	1
93		2	max	1.224	6-40	1.248	6-40	2.838	6-21	9.586	6-33	6.994	4-35	-0.226	6-40
94			min	1.224	1	1.248	1	-2.874	4-35	-12.853	6-21	-6.551	4-14	-0.226	1
95		3	max	1.224	6-40	0.04	6-40	2.838	6-21	9.586	6-33	3.544	4-35	-0.999	6-40
96			min	1.224	1	0.04	1	-2.874	4-35	-12.853	6-21	-7.573	4-26	-0.999	1
97		4	max	1.224	6-40	-1.168	6-40	2.838	6-21	9.586	6-33	4.551	6-21	-0.322	6-40
98			min	1.224	1	-1.168	1	-2.874	4-35	-12.853	6-21	-10.082	4-25	-0.322	1
99		5	max	1.224	6-40	-2.375	6-40	2.838	6-21	9.586	6-33	7.956	6-21	1.804	6-40
100			min	1.224	1	-2.375	1	-2.874	4-35	-12.853	6-21	-13.08	4-17	1.804	1
101	M11	1	max	4.629	6-40	0	6-40	11.591	4-11	59.633	6-15	57.142	6-11	0	6-40
102			min	4.629	1	0	1	-161.984	6-11	-59.633	6-35	-28.691	6-21	0	1
103		2	max	5.517	6-40	0	6-40	11.591	4-11	59.633	6-15	18.36	4-11	0	6-40
104			min	5.517	1	0	1	-161.984	6-11	-59.633	6-35	-64.346	6-11	0	1
105		3	max	10.907	6-40	0	6-40	0	5-40	59.633	6-15	46.033	4-31	0	6-40
106			min	10.907	1	0	1	-181.689	4-31	-59.633	6-35	-185.834	6-11	0	1
107		4	max	11.794	6-40	0	6-40	0	5-40	52.376	4-27	0	5-40	0	6-40
108			min	11.794	1	0	1	-181.689	4-31	-52.376	4-7	-252.611	6-11	0	1
109		5	max	17.593	6-40	0	6-40	0	5-40	36.175	4-15	0	5-40	0	6-40
110			min	17.593	1	0	1	-182.342	4-11	-36.175	4-35	-352.718	6-11	0	1
111	M12	1	max	1.224	6-40	2.375	6-40	2.874	4-15	12.853	6-1	7.956	6-1	1.804	6-40
112			min	1.224	1	2.375	1	-2.838	6-1	-9.586	6-13	-13.08	4-37	1.804	1
113		2	max	1.224	6-40	1.168	6-40	2.874	4-15	12.853	6-1	4.551	6-1	-0.322	6-40
114			min	1.224	1	1.168	1	-2.838	6-1	-9.586	6-13	-10.082	4-5	-0.322	1
115		3	max	1.224	6-40	-0.04	6-40	2.874	4-15	12.853	6-1	3.544	4-15	-0.999	6-40
116			min	1.224	1	-0.04	1	-2.838	6-1	-9.586	6-13	-7.573	4-6	-0.999	1
117		4	max	1.224	6-40	-1.248	6-40	2.874	4-15	12.853	6-1	6.994	4-15	-0.226	6-40
118			min	1.224	1	-1.248	1	-2.838	6-1	-9.586	6-13	-6.551	4-34	-0.226	1
119		5	max	1.224	6-40	-2.455	6-40	2.874	4-15	12.853	6-1	10.443	4-15	1.996	6-40
120			min	1.224	1	-2.455	1	-2.838	6-1	-9.586	6-13	-6.728	4-8	1.996	1
121	M13	1	max	10.29	6-40	-2.601	6-40	10.823	4-26	51.114	4-5	452.694	6-1	0.095	6-40

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
122			min	10.29	1	-2.601	1	-193.931	4-1	-26.829	6-1	0	1	0.095	1
123		2	max	7.027	6-40	-1.377	6-40	7.964	4-26	63.797	4-5	327.727	6-1	-0.269	6-40
124			min	7.027	1	-1.377	1	-193.126	4-1	-34.785	6-1	0	1	-0.269	1
125		3	max	6.139	6-40	-1.377	6-34	7.964	4-26	63.797	4-5	228.662	6-1	-0.96	6-40
126			min	6.139	1	-1.654	1	-193.126	4-1	-36.349	6-1	-31.087	4-1	-0.96	1
127		4	max	3.037	6-40	-1.654	6-40	7.471	4-3	59.331	6-6	91.313	6-1	0.28	6-40
128			min	3.037	1	-1.654	1	-183.132	6-1	-36.349	6-1	-13.611	4-1	0.28	1
129		5	max	2.15	6-40	-1.654	6-40	7.471	4-3	59.331	6-6	31.839	6-13	1.52	6-40
130			min	2.15	1	-1.654	1	-183.132	6-1	-36.349	6-1	-46.035	6-1	1.52	1
131	M14	1	max	2.15	6-40	-1.654	6-40	7.471	4-23	36.349	6-21	46.035	6-21	-1.52	6-40
132			min	2.15	1	-1.654	1	-183.132	6-21	-59.331	6-26	-31.839	6-33	-1.52	1
133		2	max	3.037	6-40	-1.654	6-40	7.471	4-23	36.349	6-21	13.611	4-21	-0.28	6-40
134			min	3.037	1	-1.654	1	-183.132	6-21	-59.331	6-26	-91.313	6-21	-0.28	1
135		3	max	6.139	6-40	-1.377	6-40	7.964	4-6	36.349	6-21	31.087	4-21	0.96	6-40
136			min	6.139	1	-1.654	1	-193.126	4-21	-63.797	4-25	-228.662	6-21	0.96	1
137		4	max	7.027	6-40	-1.377	6-40	7.964	4-6	34.785	6-21	0	5-40	0.269	6-40
138			min	7.027	1	-1.377	1	-193.126	4-21	-63.797	4-25	-327.727	6-21	0.269	1
139		5	max	10.29	6-40	-2.601	6-40	10.823	4-6	26.829	6-21	0	5-40	-0.095	6-40
140			min	10.29	1	-2.601	1	-193.931	4-21	-51.114	4-25	-452.694	6-21	-0.095	1
141	M15	1	max	4.217	6-40	2.919	6-40	3.476	6-21	13.18	6-1	10.08	6-1	2.715	6-40
142			min	4.217	1	2.919	1	-3.476	6-1	-13.18	6-21	-10.08	6-21	2.715	1
143		2	max	4.217	6-40	1.459	6-40	3.476	6-21	13.18	6-1	5.04	6-1	-0.459	6-40
144			min	4.217	1	1.459	1	-3.476	6-1	-13.18	6-21	-7.089	5-7	-0.459	1
145		3	max	4.217	6-40	0	6-40	3.476	6-21	13.18	6-1	0	6-40	-1.517	6-40
146			min	4.217	1	0	1	-3.476	6-1	-13.18	6-21	-7.083	5-7	-1.517	1
147		4	max	4.217	6-40	-1.459	6-40	3.476	6-21	13.18	6-1	5.04	6-21	-0.459	6-40
148			min	4.217	1	-1.459	1	-3.476	6-1	-13.18	6-21	-7.089	5-27	-0.459	1
149		5	max	4.217	6-40	-2.919	6-40	3.476	6-21	13.18	6-1	10.08	6-21	2.715	6-40
150			min	4.217	1	-2.919	1	-3.476	6-1	-13.18	6-21	-10.08	6-1	2.715	1
151	M16	1	max	2.697	6-40	-8.273	6-40	10.935	5-23	60.723	5-24	44.316	6-21	-2.488	6-40
152			min	2.697	1	-8.273	1	-191.06	6-21	-93.184	6-8	-44.316	6-1	-2.488	1
153		2	max	6.43	6-40	-0.654	6-40	0	6-40	40.675	6-21	0	6-40	-0.638	6-40
154			min	6.43	1	-0.654	1	-188.862	5-21	-55.363	5-27	-100.54	6-1	-0.638	1
155		3	max	7.466	6-40	-0.654	6-40	0	6-40	40.675	6-21	0	6-40	-0.065	6-40
156			min	7.466	1	-0.654	1	-188.862	5-21	-55.363	5-27	-238.175	6-21	-0.065	1
157		4	max	8.502	6-40	-0.654	6-40	0	6-40	40.675	6-21	0	6-40	0.507	6-40
158			min	8.502	1	-0.654	1	-188.862	5-21	-55.363	5-27	-401.478	6-21	0.507	1
159		5	max	12.456	6-40	-4.872	6-40	0	6-40	30.595	6-21	0	6-40	-0.231	6-40
160			min	12.456	1	-4.872	1	-191.406	5-21	-48.32	5-6	-552.64	6-21	-0.231	1
161	M17	1	max	8.273	6-40	2.697	6-40	11.218	5-31	44.316	6-1	93.184	6-28	2.488	6-40
162			min	8.273	1	2.697	1	-185.149	6-32	-44.316	6-21	-60.723	5-4	2.488	1
163		2	max	8.273	6-40	1.349	6-40	41.48	6-30	44.316	6-1	13.608	6-21	-0.445	6-40
164			min	8.273	1	1.349	1	-151.97	6-4	-44.316	6-21	-140.691	6-4	-0.445	1
165		3	max	8.273	6-40	0	6-40	96.11	6-27	44.316	6-1	0	6-40	-1.422	6-40
166			min	8.273	1	0	1	-96.11	6-7	-44.316	6-21	-190.201	6-7	-1.422	1
167		4	max	8.273	6-40	-1.349	6-40	151.97	6-24	44.316	6-1	13.608	6-1	-0.445	6-40
168			min	8.273	1	-1.349	1	-41.48	6-10	-44.316	6-21	-140.691	6-24	-0.445	1
169		5	max	8.273	6-40	-2.697	6-40	185.149	6-12	44.316	6-1	93.184	6-8	2.488	6-40
170			min	8.273	1	-2.697	1	-11.218	5-11	-44.316	6-21	-60.723	5-24	2.488	1
171	M18	1	max	2.697	6-40	8.273	6-40	10.935	5-3	93.184	6-28	44.316	6-1	2.488	6-40
172			min	2.697	1	8.273	1	-191.06	6-1	-60.723	5-4	-44.316	6-21	2.488	1
173		2	max	6.43	6-40	0.654	6-40	0	6-40	55.363	5-7	0	6-40	0.638	6-40
174			min	6.43	1	0.654	1	-188.862	5-1	-40.675	6-1	-100.54	6-21	0.638	1
175		3	max	7.466	6-40	0.654	6-40	0	6-40	55.363	5-7	0	6-40	0.065	6-40
176			min	7.466	1	0.654	1	-188.862	5-1	-40.675	6-1	-238.175	6-1	0.065	1

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
177		4	max	8.502	6-40	0.654	6-40	0	6-40	55.363	5-7	0	6-40	-0.507	6-40
178			min	8.502	1	0.654	1	-188.862	5-1	-40.675	6-1	-401.478	6-1	-0.507	1
179		5	max	12.456	6-40	4.872	6-40	0	6-40	48.32	5-26	0	6-40	0.231	6-40
180			min	12.456	1	4.872	1	-191.406	5-1	-30.595	6-1	-552.64	6-1	0.231	1
181	M19	1	max	2.499	6-40	2.919	6-40	2.249	6-21	11.827	6-1	6.521	6-1	2.742	6-40
182			min	2.499	1	2.919	1	-2.249	6-1	-11.827	6-21	-13.69	4-29	2.742	1
183		2	max	2.499	6-40	1.459	6-40	2.249	6-21	11.827	6-1	3.26	6-1	-0.432	6-40
184			min	2.499	1	1.459	1	-2.249	6-1	-11.827	6-21	-11.719	4-28	-0.432	1
185		3	max	2.499	6-40	0	6-40	2.249	6-21	11.827	6-1	0	6-40	-1.49	6-40
186			min	2.499	1	0	1	-2.249	6-1	-11.827	6-21	-10.789	4-27	-1.49	1
187		4	max	2.499	6-40	-1.459	6-40	2.249	6-21	11.827	6-1	3.26	6-21	-0.432	6-40
188			min	2.499	1	-1.459	1	-2.249	6-1	-11.827	6-21	-11.719	4-8	-0.432	1
189		5	max	2.499	6-40	-2.919	6-40	2.249	6-21	11.827	6-1	6.521	6-21	2.742	6-40
190			min	2.499	1	-2.919	1	-2.249	6-1	-11.827	6-21	-13.69	4-9	2.742	1
191	M20	1	max	2.697	6-40	-2.617	6-40	5.451	4-23	33.622	4-9	41.771	6-21	-2.429	6-40
192			min	2.697	1	-2.617	1	-190.075	6-21	-83.815	6-26	-41.771	6-1	-2.429	1
193		2	max	3.585	6-40	-2.617	6-40	5.451	4-23	33.622	4-9	11.453	4-21	-0.466	6-40
194			min	3.585	1	-2.617	1	-190.075	6-21	-83.815	6-26	-100.785	6-21	-0.466	1
195		3	max	7.17	6-40	-1.962	6-32	0	6-40	29.564	6-21	26.116	4-21	1.496	6-40
196			min	7.17	1	-2.617	1	-196.342	4-21	-88.433	4-8	-243.341	6-21	1.496	1
197		4	max	8.058	6-40	-1.962	6-40	0	6-40	28.307	6-21	0	6-40	0.397	6-40
198			min	8.058	1	-1.962	1	-196.342	4-21	-88.433	4-8	-351.669	6-21	0.397	1
199		5	max	11.864	6-40	-4.461	6-40	0	6-40	21.786	6-21	0	6-40	-0.041	6-40
200			min	11.864	1	-4.461	1	-196.992	4-21	-75.425	4-26	-483.45	6-21	-0.041	1
201	M21	1	max	2.617	6-40	2.697	6-40	10.195	6-1	41.771	6-1	83.815	6-6	2.429	6-40
202			min	2.617	1	2.697	1	-183.314	6-32	-41.771	6-21	-33.622	4-29	2.429	1
203		2	max	2.617	6-40	1.349	6-40	44.345	6-30	41.771	6-1	14.782	6-21	-0.504	6-40
204			min	2.617	1	1.349	1	-149.246	6-4	-41.771	6-21	-149.759	6-4	-0.504	1
205		3	max	2.617	6-40	0	6-40	96.355	6-27	41.771	6-1	0	6-40	-1.482	6-40
206			min	2.617	1	0	1	-96.355	6-7	-41.771	6-21	-196.867	6-7	-1.482	1
207		4	max	2.617	6-40	-1.349	6-40	149.246	6-24	41.771	6-1	14.782	6-1	-0.504	6-40
208			min	2.617	1	-1.349	1	-44.345	6-10	-41.771	6-21	-149.759	6-24	-0.504	1
209		5	max	2.617	6-40	-2.697	6-40	183.314	6-12	41.771	6-1	83.815	6-26	2.429	6-40
210			min	2.617	1	-2.697	1	-10.195	6-21	-41.771	6-21	-33.622	4-9	2.429	1
211	M22	1	max	2.697	6-40	2.617	6-40	5.451	4-3	83.815	6-6	41.771	6-1	2.429	6-40
212			min	2.697	1	2.617	1	-190.075	6-1	-33.622	4-29	-41.771	6-21	2.429	1
213		2	max	3.585	6-40	2.617	6-40	5.451	4-3	83.815	6-6	11.453	4-1	0.466	6-40
214			min	3.585	1	2.617	1	-190.075	6-1	-33.622	4-29	-100.785	6-1	0.466	1
215		3	max	7.17	6-40	2.617	6-40	0	6-40	88.433	4-28	26.116	4-1	-1.496	6-40
216			min	7.17	1	1.962	4-1	-196.342	4-1	-29.564	6-1	-243.341	6-1	-1.496	1
217		4	max	8.058	6-40	1.962	6-40	0	6-40	88.433	4-28	0	6-40	-0.397	6-40
218			min	8.058	1	1.962	1	-196.342	4-1	-28.307	6-1	-351.669	6-1	-0.397	1
219		5	max	11.864	6-40	4.461	6-40	0	6-40	75.425	4-6	0	6-40	0.041	6-40
220			min	11.864	1	4.461	1	-196.992	4-1	-21.786	6-1	-483.45	6-1	0.041	1
221	M23	1	max	-4.527	6-40	2.277	6-40	14.52	6-30	31.697	6-34	86.447	5-15	1.856	6-40
222			min	-4.527	1	2.277	1	-184.773	5-11	-49.729	6-21	-62.426	6-29	1.856	1
223		2	max	-4.527	6-40	1.161	6-40	30.408	5-29	31.697	6-34	17.799	6-21	-0.207	6-40
224			min	-4.527	1	1.161	1	-155.481	5-13	-49.729	6-21	-118.936	5-13	-0.207	1
225		3	max	-4.527	6-40	0.045	6-40	93.313	5-26	31.697	6-34	12.042	6-40	-0.93	6-40
226			min	-4.527	1	0.045	1	-87.436	5-16	-49.729	6-21	-150.295	5-26	-0.93	1
227		4	max	-4.527	6-40	-1.071	6-40	140.596	5-24	31.697	6-34	8.595	6-5	-0.315	6-40
228			min	-4.527	1	-1.071	1	-42.322	5-18	-49.729	6-21	-100.825	5-18	-0.315	1
229		5	max	-4.527	6-40	-2.187	6-40	189.537	5-20	31.697	6-34	80.81	5-25	1.64	6-40
230			min	-4.527	1	-2.187	1	-13.073	6-19	-49.729	6-21	-50.566	6-24	1.64	1
231	M24	1	max	-4.527	6-40	2.187	6-40	13.073	6-39	49.729	6-1	80.81	5-5	1.64	6-40

Envelope Member Section Forces (Continued)

	Member	Sec		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
232			min	-4.527	1	2.187	1	-189.537	5-40	-31.697	6-14	-50.566	6-4	1.64	1
233		2	max	-4.527	6-40	1.071	6-40	42.322	5-38	49.729	6-1	8.595	6-25	-0.315	6-40
234			min	-4.527	1	1.071	1	-140.596	5-4	-31.697	6-14	-100.825	5-38	-0.315	1
235		3	max	-4.527	6-40	-0.045	6-40	87.436	5-36	49.729	6-1	12.042	6-20	-0.93	6-40
236			min	-4.527	1	-0.045	1	-93.313	5-6	-31.697	6-14	-150.295	5-6	-0.93	1
237		4	max	-4.527	6-40	-1.161	6-40	155.481	5-33	49.729	6-1	17.799	6-1	-0.207	6-40
238			min	-4.527	1	-1.161	1	-30.408	5-9	-31.697	6-14	-118.936	5-33	-0.207	1
239		5	max	-4.527	6-40	-2.277	6-40	184.773	5-31	49.729	6-1	86.447	5-35	1.856	6-40
240			min	-4.527	1	-2.277	1	-14.52	6-10	-31.697	6-14	-62.426	6-9	1.856	1
241	M25	1	max	-7.618	6-40	2.697	6-40	9.399	6-3	46.328	6-1	105.022	5-28	2.531	6-40
242			min	-7.618	1	2.697	1	-190.346	5-32	-46.328	6-21	-56.949	6-29	2.531	1
243		2	max	-7.618	6-40	1.349	6-40	37.325	5-30	46.328	6-1	6.73	6-21	-0.402	6-40
244			min	-7.618	1	1.349	1	-155.726	5-4	-46.328	6-21	-129.818	5-4	-0.402	1
245		3	max	-7.618	6-40	0	6-40	95.814	5-27	46.328	6-1	0	6-40	-1.38	6-40
246			min	-7.618	1	0	1	-95.814	5-7	-46.328	6-21	-183.133	5-7	-1.38	1
247		4	max	-7.618	6-40	-1.349	6-40	155.726	5-24	46.328	6-1	6.73	6-1	-0.402	6-40
248			min	-7.618	1	-1.349	1	-37.325	5-10	-46.328	6-21	-129.818	5-24	-0.402	1
249		5	max	-7.618	6-40	-2.697	6-40	190.346	5-12	46.328	6-1	105.022	5-8	2.531	6-40
250			min	-7.618	1	-2.697	1	-9.399	6-23	-46.328	6-21	-56.949	6-9	2.531	1
251	M26	1	max	-0.276	6-40	2.213	6-40	9.185	4-27	37.861	6-1	91.587	4-37	1.725	6-40
252			min	-0.276	1	2.213	1	-195.938	4-40	-27.376	6-13	-26.047	6-37	1.725	1
253		2	max	-0.276	6-40	1.097	6-40	38.911	4-38	37.861	6-1	2.63	6-25	-0.262	6-40
254			min	-0.276	1	1.097	1	-142.504	4-4	-27.376	6-13	-92.102	4-38	-0.262	1
255		3	max	-0.276	6-40	-0.019	6-40	87.943	4-36	37.861	6-1	13.074	4-27	-0.909	6-40
256			min	-0.276	1	-0.019	1	-91.169	4-6	-27.376	6-13	-138.169	4-6	-0.909	1
257		4	max	-0.276	6-40	-1.135	6-40	161.757	4-33	37.861	6-1	24.096	4-27	-0.217	6-40
258			min	-0.276	1	-1.135	1	-22.926	4-9	-27.376	6-13	-97.039	4-33	-0.217	1
259		5	max	-0.276	6-40	-2.251	6-40	193.594	4-31	37.861	6-1	108.569	4-7	1.815	6-40
260			min	-0.276	1	-2.251	1	-4.041	6-32	-27.376	6-13	-23.367	6-9	1.815	1
261	M27	1	max	-0.276	6-40	2.251	6-40	4.041	6-12	27.376	6-33	108.569	4-27	1.815	6-40
262			min	-0.276	1	2.251	1	-193.594	4-11	-37.861	6-21	-23.367	6-29	1.815	1
263		2	max	-0.276	6-40	1.135	6-40	22.926	4-29	27.376	6-33	24.096	4-7	-0.217	6-40
264			min	-0.276	1	1.135	1	-161.757	4-13	-37.861	6-21	-97.039	4-13	-0.217	1
265		3	max	-0.276	6-40	0.019	6-40	91.169	4-26	27.376	6-33	13.074	4-7	-0.909	6-40
266			min	-0.276	1	0.019	1	-87.943	4-16	-37.861	6-21	-138.169	4-26	-0.909	1
267		4	max	-0.276	6-40	-1.097	6-40	142.504	4-24	27.376	6-33	2.63	6-5	-0.262	6-40
268			min	-0.276	1	-1.097	1	-38.911	4-18	-37.861	6-21	-92.102	4-18	-0.262	1
269		5	max	-0.276	6-40	-2.213	6-40	195.938	4-20	27.376	6-33	91.587	4-17	1.725	6-40
270			min	-0.276	1	-2.213	1	-9.185	4-7	-37.861	6-21	-26.047	6-17	1.725	1
271	M28	1	max	-0.654	6-40	2.697	6-40	3.388	6-30	34.594	6-1	120.097	4-5	2.571	6-40
272			min	-0.654	1	2.697	1	-193.793	4-32	-34.594	6-21	-29.884	6-5	2.571	1
273		2	max	-0.654	6-40	1.349	6-40	34.719	4-30	34.594	6-1	1.116	4-21	-0.362	6-40
274			min	-0.654	1	1.349	1	-158.066	4-4	-34.594	6-21	-117.236	4-4	-0.362	1
275		3	max	-0.654	6-40	0	6-40	95.633	4-27	34.594	6-1	0	6-40	-1.34	6-40
276			min	-0.654	1	0	1	-95.633	4-7	-34.594	6-21	-171.168	4-7	-1.34	1
277		4	max	-0.654	6-40	-1.349	6-40	158.066	4-24	34.594	6-1	1.116	4-1	-0.362	6-40
278			min	-0.654	1	-1.349	1	-34.719	4-10	-34.594	6-21	-117.236	4-24	-0.362	1
279		5	max	-0.654	6-40	-2.697	6-40	193.793	4-12	34.594	6-1	120.097	4-25	2.571	6-40
280			min	-0.654	1	-2.697	1	-3.388	6-10	-34.594	6-21	-29.884	6-25	2.571	1

Envelope Maximum Member Section Forces

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
1	M1	max	10.857	3.5	6-40	-0.499	3.135	6-40	15.89	0.474	5-19	55.872	0.474	5-18	74.586	0.51	5-21	0.817	0.474	6-40
2		min	2.164	0	1	-5.025	0	1	-183.9	0	6-21	-68.31	0	6-16	-506.608	3.5	6-21	-1.565	0	1
3	M2	max	2.066	4.8	6-40	2.468	0	6-40	4.363	4.8	6-21	9.582	4.8	6-8	11.903	4.8	6-21	2.016	0	6-40

Envelope Maximum Member Section Forces (Continued)

	Member		Axial[lb]	Loc[ft]	LC	y Shear[lb]	Loc[ft]	LC	z Shear[lb]	Loc[ft]	LC	Torque[lb-ft]	Loc[ft]	LC	y-y Moment[lb-ft]	Loc[ft]	LC	z-z Moment[lb-ft]	Loc[ft]	LC
4		min	2.066	0	1	-2.362	4.8	1	-3.326	0	6-6	-13.625	0	6-21	-9.042	0	6-21	-1.01	2.45	1
5	M3	max	5.025	4.8	6-40	2.3	0	6-40	181.568	4.8	6-20	29.909	4.8	6-7	80.112	0	6-26	1.893	0	6-40
6		min	5.025	0	1	-2.164	4.8	1	-178.766	0	6-11	-47.999	0	6-21	-166.399	2.3	6-26	-0.952	2.45	1
7	M4	max	5.025	4.8	6-40	2.164	0	6-40	178.766	4.8	6-31	47.999	4.8	6-1	80.112	4.8	6-6	1.893	4.8	6-40
8		min	5.025	0	1	-2.3	4.8	1	-181.568	0	6-40	-29.909	0	6-27	-166.399	2.5	6-6	-0.952	2.35	1
9	M5	max	10.857	0	6-40	-0.499	2.99	6-40	15.89	3.5	5-39	68.31	3.5	6-36	506.608	0	6-1	1.565	3.5	6-40
10		min	2.164	3.5	1	-5.025	3.026	1	-183.9	3.026	6-1	-55.872	3.026	5-38	-74.586	2.99	5-1	-0.817	3.026	1
11	M6	max	18.235	3.5	6-40	0	3.5	6-40	29.05	0.474	5-11	73.551	0.474	6-27	79.681	0.51	5-11	0	3.5	6-40
12		min	4.601	0	1	0	0	1	-163.494	0	6-11	-73.551	0	6-7	-377.312	3.5	6-31	0	0	1
13	M7	max	2.066	4.8	6-40	2.362	0	6-40	3.326	4.8	6-26	13.625	4.8	6-1	11.903	0	6-1	2.016	4.8	6-40
14		min	2.066	0	1	-2.468	4.8	1	-4.363	0	6-1	-9.582	0	6-28	-9.042	4.8	6-1	-1.01	2.35	1
15	M8	max	1.654	4.8	6-40	2.15	0	6-40	177.479	4.8	6-31	46.035	4.8	6-1	81.064	4.8	6-36	1.916	4.8	6-40
16		min	1.654	0	1	-2.314	4.8	1	-180.317	0	6-40	-31.839	0	6-13	-169.25	2.5	6-6	-0.964	2.3	1
17	M9	max	1.654	4.8	6-40	2.314	0	6-40	180.317	4.8	6-20	31.839	4.8	6-33	81.064	0	6-16	1.916	0	6-40
18		min	1.654	0	1	-2.15	4.8	1	-177.479	0	6-11	-46.035	0	6-21	-169.25	2.3	6-26	-0.964	2.5	1
19	M10	max	1.224	4.8	6-40	2.455	0	6-40	2.838	4.8	6-21	9.586	4.8	6-33	10.443	0	4-35	1.996	0	6-40
20		min	1.224	0	1	-2.375	4.8	1	-2.874	0	4-35	-12.853	0	6-21	-13.08	4.8	4-17	-0.999	2.45	1
21	M11	max	17.593	3	6-40	0	3	6-40	11.591	1.469	4-11	59.633	1.5	6-15	57.142	0	6-11	0	3	6-40
22		min	4.629	0	1	0	0	1	-182.342	2.688	4-11	-59.633	0	6-35	-352.718	3	6-11	0	0	1
23	M12	max	1.224	4.8	6-40	2.375	0	6-40	2.874	4.8	4-15	12.853	4.8	6-1	10.443	4.8	4-15	1.996	4.8	6-40
24		min	1.224	0	1	-2.455	4.8	1	-2.838	0	6-1	-9.586	0	6-13	-13.08	0	4-37	-0.999	2.35	1
25	M13	max	10.29	0	6-40	-1.377	1.5	6-34	10.823	0.313	4-26	63.797	1.5	4-5	452.694	0	6-1	1.52	3	6-40
26		min	2.15	3	1	-2.601	0	1	-193.931	0	4-1	-36.349	1.5	6-1	-46.035	3	6-1	-0.96	1.5	1
27	M14	max	10.29	3	6-40	-1.377	2.656	6-40	10.823	3	4-6	36.349	1.5	6-21	46.035	0	6-21	0.96	1.5	6-40
28		min	2.15	0	1	-2.601	2.688	1	-193.931	2.688	4-21	-63.797	1.5	4-25	-452.694	3	6-21	-1.52	0	1
29	M15	max	4.217	5.8	6-40	2.919	0	6-40	3.476	5.8	6-21	13.18	5.8	6-1	10.08	5.8	6-21	2.715	5.8	6-40
30		min	4.217	0	1	-2.919	5.8	1	-3.476	0	6-1	-13.18	0	6-21	-10.08	0	6-21	-1.517	2.9	1
31	M16	max	12.456	3.5	6-40	-0.654	3.135	6-40	10.935	0.474	5-23	60.723	0.474	5-24	67.687	0.51	5-21	1.433	0.474	6-40
32		min	2.697	0	1	-8.273	0	1	-191.406	3.172	5-21	-93.184	0	6-8	-552.64	3.5	6-21	-2.488	0	1
33	M17	max	8.273	5.8	6-40	2.697	0	6-40	185.149	5.8	6-12	44.316	5.8	6-1	93.184	0	6-28	2.488	5.8	6-40
34		min	8.273	0	1	-2.697	5.8	1	-185.149	0	6-32	-44.316	0	6-21	-197.648	2.779	6-27	-1.422	2.9	1
35	M18	max	12.456	3.5	6-40	8.273	0.474	6-40	10.935	0.474	5-3	93.184	0.474	6-28	67.687	0.51	5-1	2.488	0	6-40
36		min	2.697	0	1	0.654	0.51	1	-191.406	3.172	5-1	-60.723	0	5-4	-552.64	3.5	6-1	-1.433	0.474	1
37	M19	max	2.499	5.8	6-40	2.919	0	6-40	2.249	5.8	6-21	11.827	5.8	6-1	6.521	0	6-1	2.742	5.8	6-40
38		min	2.499	0	1	-2.919	5.8	1	-2.249	0	6-1	-11.827	0	6-21	-13.69	5.8	4-9	-1.49	2.9	1
39	M20	max	11.864	3	6-40	-1.962	2.656	6-40	5.451	1.469	4-23	33.622	1.469	4-9	41.771	0	6-21	1.496	1.5	6-40
40		min	2.697	0	1	-4.461	2.688	1	-196.992	2.688	4-21	-88.433	1.5	4-8	-483.45	3	6-21	-2.429	0	1
41	M21	max	2.617	5.8	6-40	2.697	0	6-40	183.314	5.8	6-12	41.771	5.8	6-1	83.815	5.8	6-26	2.429	5.8	6-40
42		min	2.617	0	1	-2.697	5.8	1	-183.314	0	6-32	-41.771	0	6-21	-204.343	2.779	6-27	-1.482	2.9	1
43	M22	max	11.864	3	6-40	4.461	3	6-40	5.451	1.469	4-3	88.433	2.656	4-28	41.771	0	6-1	2.429	0	6-40
44		min	2.697	0	1	1.962	1.5	4-1	-196.992	2.688	4-1	-33.622	0	4-29	-483.45	3	6-1	-1.496	1.5	1
45	M23	max	-4.527	4.8	6-40	2.277	0	6-40	189.537	4.8	5-20	31.697	4.8	6-34	86.447	0	5-15	1.856	0	6-40
46		min	-4.527	0	1	-2.187	4.8	1	-184.773	0	5-11	-49.729	0	6-21	-159.627	2.3	5-26	-0.931	2.45	1
47	M24	max	-4.527	4.8	6-40	2.187	0	6-40	184.773	4.8	5-31	49.729	4.8	6-1	86.447	4.8	5-35	1.856	4.8	6-40
48		min	-4.527	0	1	-2.277	4.8	1	-189.537	0	5-40	-31.697	0	6-14	-159.627	2.5	5-6	-0.931	2.35	1
49	M25	max	-7.618	5.8	6-40	2.697	0	6-40	190.346	5.8	5-12	46.328	5.8	6-1	105.022	0	5-28	2.531	5.8	6-40
50		min	-7.618	0	1	-2.697	5.8	1	-190.346	0	5-32	-46.328	0	6-21	-190.544	2.779	5-27	-1.38	2.9	1
51	M26	max	-0.276	4.8	6-40	2.213	0	6-40	193.594	4.8	4-31	37.861	4.8	6-1	108.569	4.8	4-7	1.815	4.8	6-40
52		min	-0.276	0	1	-2.251	4.8	1	-195.938	0	4-40	-27.376	0	6-13	-147.286	2.5	4-6	-0.909	2.4	1
53	M27	max	-0.276	4.8	6-40	2.251	0	6-40	195.938	4.8	4-20	27.376	4.8	6-33	108.569	0	4-27	1.815	0	6-40
54		min	-0.276	0	1	-2.213	4.8	1	-193.594	0	4-11	-37.861	0	6-21	-147.286	2.3	4-26	-0.909	2.4	1
55	M28	max	-0.654	5.8	6-40	2.697	0	6-40	193.793	5.8	4-12	34.594	5.8	6-1	120.097	5.8	4-25	2.571	5.8	6-40
56		min	-0.654	0	1	-2.697	5.8	1	-193.793	0	4-32	-34.594	0	6-21	-178.557	2.779	4-27	-1.34	2.9	1

Envelope Member End Reactions

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
1	M1	I	max	2.164	6-40	-5.025	6-40	15.89	5-19	55.872	5-18	47.999	6-21	-1.565	6-40
2			min	2.164	1	-5.025	1	-183.9	6-21	-68.31	6-16	-29.909	6-7	-1.565	1
3		J	max	10.857	6-40	-2.564	6-40	8.269	6-1	35.691	6-21	0	4-40	-0.272	6-40
4			min	10.857	1	-2.564	1	-182.162	5-21	-32.588	5-27	-506.608	6-21	-0.272	1
5	M2	I	max	2.066	6-40	2.468	6-40	4.363	6-21	9.582	6-8	9.106	5-6	2.016	6-40
6			min	2.066	1	2.468	1	-3.326	6-6	-13.625	6-21	-9.042	6-21	2.016	1
7		J	max	2.066	6-40	-2.362	6-40	4.363	6-21	9.582	6-8	11.903	6-21	1.762	6-40
8			min	2.066	1	-2.362	1	-3.326	6-6	-13.625	6-21	-7.873	6-33	1.762	1
9	M3	I	max	5.025	6-40	2.3	6-40	15.707	5-30	29.909	6-7	80.112	6-26	1.893	6-40
10			min	5.025	1	2.3	1	-178.766	6-11	-47.999	6-21	-63.371	5-12	1.893	1
11		J	max	5.025	6-40	-2.164	6-40	181.568	6-20	29.909	6-7	68.31	6-16	1.565	6-40
12			min	5.025	1	-2.164	1	-16.41	6-21	-47.999	6-21	-55.872	5-18	1.565	1
13	M4	I	max	5.025	6-40	2.164	6-40	16.41	6-1	47.999	6-1	68.31	6-36	1.565	6-40
14			min	5.025	1	2.164	1	-181.568	6-40	-29.909	6-27	-55.872	5-38	1.565	1
15		J	max	5.025	6-40	-2.3	6-40	178.766	6-31	47.999	6-1	80.112	6-6	1.893	6-40
16			min	5.025	1	-2.3	1	-15.707	5-10	-29.909	6-27	-63.371	5-32	1.893	1
17	M5	I	max	10.857	6-40	-2.564	6-40	8.269	6-21	32.588	5-7	506.608	6-1	0.272	6-40
18			min	10.857	1	-2.564	1	-182.162	5-1	-35.691	6-1	0	1	0.272	1
19		J	max	2.164	6-40	-5.025	6-40	15.89	5-39	68.31	6-36	29.909	6-27	1.565	6-40
20			min	2.164	1	-5.025	1	-183.9	6-1	-55.872	5-38	-47.999	6-1	1.565	1
21	M6	I	max	4.601	6-40	0	6-40	29.05	5-11	73.551	6-27	48.159	6-11	0	6-40
22			min	4.601	1	0	1	-163.494	6-11	-73.551	6-7	-24.156	6-21	0	1
23		J	max	18.235	6-40	0	6-40	0	4-40	26.733	5-16	0	4-40	0	6-40
24			min	18.235	1	0	1	-149.252	5-31	-26.733	5-36	-377.312	6-31	0	1
25	M7	I	max	2.066	6-40	2.362	6-40	3.326	6-26	13.625	6-1	11.903	6-1	1.762	6-40
26			min	2.066	1	2.362	1	-4.363	6-1	-9.582	6-28	-7.873	6-13	1.762	1
27		J	max	2.066	6-40	-2.468	6-40	3.326	6-26	13.625	6-1	9.106	5-26	2.016	6-40
28			min	2.066	1	-2.468	1	-4.363	6-1	-9.582	6-28	-9.042	6-1	2.016	1
29	M8	I	max	1.654	6-40	2.15	6-40	17.076	6-1	46.035	6-1	59.331	6-6	1.52	6-40
30			min	1.654	1	2.15	1	-180.317	6-40	-31.839	6-13	-36.349	6-1	1.52	1
31		J	max	1.654	6-40	-2.314	6-40	177.479	6-31	46.035	6-1	81.064	6-36	1.916	6-40
32			min	1.654	1	-2.314	1	-15.782	6-11	-31.839	6-13	-47.969	6-11	1.916	1
33	M9	I	max	1.654	6-40	2.314	6-40	15.782	6-31	31.839	6-33	81.064	6-16	1.916	6-40
34			min	1.654	1	2.314	1	-177.479	6-11	-46.035	6-21	-47.969	6-31	1.916	1
35		J	max	1.654	6-40	-2.15	6-40	180.317	6-20	31.839	6-33	59.331	6-26	1.52	6-40
36			min	1.654	1	-2.15	1	-17.076	6-21	-46.035	6-21	-36.349	6-21	1.52	1
37	M10	I	max	1.224	6-40	2.455	6-40	2.838	6-21	9.586	6-33	10.443	4-35	1.996	6-40
38			min	1.224	1	2.455	1	-2.874	4-35	-12.853	6-21	-6.728	4-28	1.996	1
39		J	max	1.224	6-40	-2.375	6-40	2.838	6-21	9.586	6-33	7.956	6-21	1.804	6-40
40			min	1.224	1	-2.375	1	-2.874	4-35	-12.853	6-21	-13.08	4-17	1.804	1
41	M11	I	max	4.629	6-40	0	6-40	11.591	4-11	59.633	6-15	57.142	6-11	0	6-40
42			min	4.629	1	0	1	-161.984	6-11	-59.633	6-35	-28.691	6-21	0	1
43		J	max	17.593	6-40	0	6-40	0	5-40	36.175	4-15	0	5-40	0	6-40
44			min	17.593	1	0	1	-182.342	4-11	-36.175	4-35	-352.718	6-11	0	1
45	M12	I	max	1.224	6-40	2.375	6-40	2.874	4-15	12.853	6-1	7.956	6-1	1.804	6-40
46			min	1.224	1	2.375	1	-2.838	6-1	-9.586	6-13	-13.08	4-37	1.804	1
47		J	max	1.224	6-40	-2.455	6-40	2.874	4-15	12.853	6-1	10.443	4-15	1.996	6-40
48			min	1.224	1	-2.455	1	-2.838	6-1	-9.586	6-13	-6.728	4-8	1.996	1
49	M13	I	max	10.29	6-40	-2.601	6-40	10.823	4-26	51.114	4-5	452.694	6-1	0.095	6-40
50			min	10.29	1	-2.601	1	-193.931	4-1	-26.829	6-1	0	1	0.095	1
51		J	max	2.15	6-40	-1.654	6-40	7.471	4-3	59.331	6-6	31.839	6-13	1.52	6-40
52			min	2.15	1	-1.654	1	-183.132	6-1	-36.349	6-1	-46.035	6-1	1.52	1
53	M14	I	max	2.15	6-40	-1.654	6-40	7.471	4-23	36.349	6-21	46.035	6-21	-1.52	6-40
54			min	2.15	1	-1.654	1	-183.132	6-21	-59.331	6-26	-31.839	6-33	-1.52	1
55		J	max	10.29	6-40	-2.601	6-40	10.823	4-6	26.829	6-21	0	5-40	-0.095	6-40

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
56			min	10.29	1	-2.601	1	-193.931	4-21	-51.114	4-25	-452.694	6-21	-0.095	1
57	M15	I	max	4.217	6-40	2.919	6-40	3.476	6-21	13.18	6-1	10.08	6-1	2.715	6-40
58			min	4.217	1	2.919	1	-3.476	6-1	-13.18	6-21	-10.08	6-21	2.715	1
59		J	max	4.217	6-40	-2.919	6-40	3.476	6-21	13.18	6-1	10.08	6-21	2.715	6-40
60			min	4.217	1	-2.919	1	-3.476	6-1	-13.18	6-21	-10.08	6-1	2.715	1
61	M16	I	max	2.697	6-40	-8.273	6-40	10.935	5-23	60.723	5-24	44.316	6-21	-2.488	6-40
62			min	2.697	1	-8.273	1	-191.06	6-21	-93.184	6-8	-44.316	6-1	-2.488	1
63		J	max	12.456	6-40	-4.872	6-40	0	6-40	30.595	6-21	0	6-40	-0.231	6-40
64			min	12.456	1	-4.872	1	-191.406	5-21	-48.32	5-6	-552.64	6-21	-0.231	1
65	M17	I	max	8.273	6-40	2.697	6-40	11.218	5-31	44.316	6-1	93.184	6-28	2.488	6-40
66			min	8.273	1	2.697	1	-185.149	6-32	-44.316	6-21	-60.723	5-4	2.488	1
67		J	max	8.273	6-40	-2.697	6-40	185.149	6-12	44.316	6-1	93.184	6-8	2.488	6-40
68			min	8.273	1	-2.697	1	-11.218	5-11	-44.316	6-21	-60.723	5-24	2.488	1
69	M18	I	max	2.697	6-40	8.273	6-40	10.935	5-3	93.184	6-28	44.316	6-1	2.488	6-40
70			min	2.697	1	8.273	1	-191.06	6-1	-60.723	5-4	-44.316	6-21	2.488	1
71		J	max	12.456	6-40	4.872	6-40	0	6-40	48.32	5-26	0	6-40	0.231	6-40
72			min	12.456	1	4.872	1	-191.406	5-1	-30.595	6-1	-552.64	6-1	0.231	1
73	M19	I	max	2.499	6-40	2.919	6-40	2.249	6-21	11.827	6-1	6.521	6-1	2.742	6-40
74			min	2.499	1	2.919	1	-2.249	6-1	-11.827	6-21	-13.69	4-29	2.742	1
75		J	max	2.499	6-40	-2.919	6-40	2.249	6-21	11.827	6-1	6.521	6-21	2.742	6-40
76			min	2.499	1	-2.919	1	-2.249	6-1	-11.827	6-21	-13.69	4-9	2.742	1
77	M20	I	max	2.697	6-40	-2.617	6-40	5.451	4-23	33.622	4-9	41.771	6-21	-2.429	6-40
78			min	2.697	1	-2.617	1	-190.075	6-21	-83.815	6-26	-41.771	6-1	-2.429	1
79		J	max	11.864	6-40	-4.461	6-40	0	6-40	21.786	6-21	0	6-40	-0.041	6-40
80			min	11.864	1	-4.461	1	-196.992	4-21	-75.425	4-26	-483.45	6-21	-0.041	1
81	M21	I	max	2.617	6-40	2.697	6-40	10.195	6-1	41.771	6-1	83.815	6-6	2.429	6-40
82			min	2.617	1	2.697	1	-183.314	6-32	-41.771	6-21	-33.622	4-29	2.429	1
83		J	max	2.617	6-40	-2.697	6-40	183.314	6-12	41.771	6-1	83.815	6-26	2.429	6-40
84			min	2.617	1	-2.697	1	-10.195	6-21	-41.771	6-21	-33.622	4-9	2.429	1
85	M22	I	max	2.697	6-40	2.617	6-40	5.451	4-3	83.815	6-6	41.771	6-1	2.429	6-40
86			min	2.697	1	2.617	1	-190.075	6-1	-33.622	4-29	-41.771	6-21	2.429	1
87		J	max	11.864	6-40	4.461	6-40	0	6-40	75.425	4-6	0	6-40	0.041	6-40
88			min	11.864	1	4.461	1	-196.992	4-1	-21.786	6-1	-483.45	6-1	0.041	1
89	M23	I	max	-4.527	6-40	2.277	6-40	14.52	6-30	31.697	6-34	86.447	5-15	1.856	6-40
90			min	-4.527	1	2.277	1	-184.773	5-11	-49.729	6-21	-62.426	6-29	1.856	1
91		J	max	-4.527	6-40	-2.187	6-40	189.537	5-20	31.697	6-34	80.81	5-25	1.64	6-40
92			min	-4.527	1	-2.187	1	-13.073	6-19	-49.729	6-21	-50.566	6-24	1.64	1
93	M24	I	max	-4.527	6-40	2.187	6-40	13.073	6-39	49.729	6-1	80.81	5-5	1.64	6-40
94			min	-4.527	1	2.187	1	-189.537	5-40	-31.697	6-14	-50.566	6-4	1.64	1
95		J	max	-4.527	6-40	-2.277	6-40	184.773	5-31	49.729	6-1	86.447	5-35	1.856	6-40
96			min	-4.527	1	-2.277	1	-14.52	6-10	-31.697	6-14	-62.426	6-9	1.856	1
97	M25	I	max	-7.618	6-40	2.697	6-40	9.399	6-3	46.328	6-1	105.022	5-28	2.531	6-40
98			min	-7.618	1	2.697	1	-190.346	5-32	-46.328	6-21	-56.949	6-29	2.531	1
99		J	max	-7.618	6-40	-2.697	6-40	190.346	5-12	46.328	6-1	105.022	5-8	2.531	6-40
100			min	-7.618	1	-2.697	1	-9.399	6-23	-46.328	6-21	-56.949	6-9	2.531	1
101	M26	I	max	-0.276	6-40	2.213	6-40	9.185	4-27	37.861	6-1	91.587	4-37	1.725	6-40
102			min	-0.276	1	2.213	1	-195.938	4-40	-27.376	6-13	-26.047	6-37	1.725	1
103		J	max	-0.276	6-40	-2.251	6-40	193.594	4-31	37.861	6-1	108.569	4-7	1.815	6-40
104			min	-0.276	1	-2.251	1	-4.041	6-32	-27.376	6-13	-23.367	6-9	1.815	1
105	M27	I	max	-0.276	6-40	2.251	6-40	4.041	6-12	27.376	6-33	108.569	4-27	1.815	6-40
106			min	-0.276	1	2.251	1	-193.594	4-11	-37.861	6-21	-23.367	6-29	1.815	1
107		J	max	-0.276	6-40	-2.213	6-40	195.938	4-20	27.376	6-33	91.587	4-17	1.725	6-40
108			min	-0.276	1	-2.213	1	-9.185	4-7	-37.861	6-21	-26.047	6-17	1.725	1
109	M28	I	max	-0.654	6-40	2.697	6-40	3.388	6-30	34.594	6-1	120.097	4-5	2.571	6-40
110			min	-0.654	1	2.697	1	-193.793	4-32	-34.594	6-21	-29.884	6-5	2.571	1

Envelope Member End Reactions (Continued)

	Member	Member End		Axial[lb]	LC	y Shear[lb]	LC	z Shear[lb]	LC	Torque[lb-ft]	LC	y-y Moment[lb-ft]	LC	z-z Moment[lb-ft]	LC
111		J	max	-0.654	6-40	-2.697	6-40	193.793	4-12	34.594	6-1	120.097	4-25	2.571	6-40
112			min	-0.654	1	-2.697	1	-3.388	6-10	-34.594	6-21	-29.884	6-25	2.571	1

Envelope Member 2nd/1st Moment Ratios

	Member		y-y Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC	z-z Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC
1	M1	max	-44.473	1.005	3.172	5-37	-1.565	1	0	6-40
2		min	-448.779	1.002	3.5	5-21	-1.565	1	0	1
3	M2	max	-7.858	1.003	4.8	6-8	2.016	1	0	6-40
4		min	-4.054	0.999	4.8	5-24	2.016	1	0	1
5	M3	max	-27.437	1.006	0	6-9	1.893	1	0	6-40
6		min	13.22	0.992	0	6-5	1.893	1	0	1
7	M4	max	-27.437	1.006	4.8	6-29	1.893	1	4.8	6-40
8		min	13.22	0.992	4.8	6-25	1.893	1	4.8	1
9	M5	max	44.473	1.005	0.328	5-17	1.565	1	3.5	6-40
10		min	448.779	1.002	0	5-1	1.565	1	3.5	1
11	M6	max	-162.148	1.004	3.5	6-1	NC	NC		
12		min	-0.703	1.003	3.5	2	NC	NC		
13	M7	max	-7.858	1.003	0	6-28	2.016	1	4.8	6-40
14		min	-4.054	0.999	0	5-4	2.016	1	4.8	1
15	M8	max	-0.012	1.003	4.8	2	1.916	1	4.8	6-40
16		min	19.9	0.997	4.8	6-15	1.916	1	4.8	1
17	M9	max	-0.012	1.003	0	2	1.916	1	0	6-40
18		min	19.9	0.997	0	6-35	1.916	1	0	1
19	M10	max	-1.007	1.002	0	4-20	1.996	1	0	6-40
20		min	-4.25	1	4.8	6-24	1.996	1	0	1
21	M11	max	-123.825	1.002	3	6-21	NC	NC		
22		min	-0.432	1.001	3	2	NC	NC		
23	M12	max	-1.007	1.002	4.8	4-40	1.996	1	4.8	6-40
24		min	-4.25	1	0	6-4	1.996	1	4.8	1
25	M13	max	41.856	1.003	0.313	6-17	1.52	1	3	6-40
26		min	251.29	1.001	0	4-1	1.52	1	3	1
27	M14	max	-41.856	1.003	2.688	6-37	-1.52	1	0	6-40
28		min	-251.29	1.001	3	4-21	-1.52	1	0	1
29	M15	max	-7.353	1.003	5.8	5-32	2.715	1	5.8	6-40
30		min	-0.006	1	0	3	2.715	1	5.8	1
31	M16	max	-552.64	1.003	3.5	6-21	-2.488	1	0	6-40
32		min	-115.703	1.002	3.5	5-1	-2.488	1	0	1
33	M17	max	-21.476	1.003	5.8	5-21	2.488	1	5.8	6-40
34		min	-0.123	1	2.9	3	2.488	1	5.8	1
35	M18	max	-552.64	1.003	3.5	6-1	2.488	1	0	6-40
36		min	-115.703	1.002	3.5	5-21	2.488	1	0	1
37	M19	max	-2.084	1.001	5.8	4-1	2.742	1	5.8	6-40
38		min	-3.085	0.999	0	4-32	2.742	1	5.8	1
39	M20	max	-117.44	1.002	3	6-1	-2.429	1	0	6-40
40		min	-0.266	1.001	3	2	-2.429	1	0	1
41	M21	max	-8.759	1.001	5.8	4-21	2.429	1	5.8	6-40
42		min	-0.029	1	0	2	2.429	1	5.8	1
43	M22	max	-117.44	1.002	3	6-21	2.429	1	0	6-40
44		min	-0.266	1.001	3	2	2.429	1	0	1
45	M23	max	-11.219	1.01	0	5-9	1.856	1	0	6-40
46		min	10.634	0.992	0	5-34	1.856	1	0	1
47	M24	max	-11.219	1.01	4.8	5-29	1.856	1	4.8	6-40
48		min	10.634	0.992	4.8	5-14	1.856	1	4.8	1
49	M25	max	-13.46	1.003	5.8	6-21	2.531	1	5.8	6-40
50		min	-0.121	1	2.9	2	2.531	1	5.8	1

Envelope Member 2nd/1st Moment Ratios (Continued)

	Member		y-y Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC	z-z Moment [lb-ft]	2nd/1st Ratio	Loc [ft]	LC
51	M26	max	-3.295	1.006	4.8	6-29	1.815	1	4.8	6-40
52		min	1.513	0.988	4.8	6-13	1.815	1	4.8	1
53	M27	max	-3.295	1.006	0	6-9	1.815	1	0	6-40
54		min	1.513	0.988	0	6-33	1.815	1	0	1
55	M28	max	1.257	1.001	0	6-1	2.571	1	5.8	6-40
56		min	-8.598	1	5.8	6-12	2.571	1	5.8	1

Envelope Member Torsion Stresses

	Member	Sec		Torque[lb-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
1	M1	1	max	55.872	5-18	1.036	5-18	NC	NC	NC	NC
2			min	-68.31	6-16	-1.267	6-16	NC	NC	NC	NC
3		2	max	47.593	6-21	0.882	6-21	NC	NC	NC	NC
4			min	-38.995	5-27	-0.723	5-27	NC	NC	NC	NC
5		3	max	47.593	6-21	0.882	6-21	NC	NC	NC	NC
6			min	-38.995	5-27	-0.723	5-27	NC	NC	NC	NC
7		4	max	47.593	6-21	0.882	6-21	NC	NC	NC	NC
8			min	-38.995	5-27	-0.723	5-27	NC	NC	NC	NC
9		5	max	35.691	6-21	0.662	6-21	NC	NC	NC	NC
10			min	-32.588	5-27	-0.604	5-27	NC	NC	NC	NC
11	M2	1	max	9.582	6-8	0.204	6-8	NC	NC	NC	NC
12			min	-13.625	6-21	-0.29	6-21	NC	NC	NC	NC
13		2	max	9.582	6-8	0.204	6-8	NC	NC	NC	NC
14			min	-13.625	6-21	-0.29	6-21	NC	NC	NC	NC
15		3	max	9.582	6-8	0.204	6-8	NC	NC	NC	NC
16			min	-13.625	6-21	-0.29	6-21	NC	NC	NC	NC
17		4	max	9.582	6-8	0.204	6-8	NC	NC	NC	NC
18			min	-13.625	6-21	-0.29	6-21	NC	NC	NC	NC
19		5	max	9.582	6-8	0.204	6-8	NC	NC	NC	NC
20			min	-13.625	6-21	-0.29	6-21	NC	NC	NC	NC
21	M3	1	max	29.909	6-7	0.791	6-7	NC	NC	NC	NC
22			min	-47.999	6-21	-1.269	6-21	NC	NC	NC	NC
23		2	max	29.909	6-7	0.791	6-7	NC	NC	NC	NC
24			min	-47.999	6-21	-1.269	6-21	NC	NC	NC	NC
25		3	max	29.909	6-7	0.791	6-7	NC	NC	NC	NC
26			min	-47.999	6-21	-1.269	6-21	NC	NC	NC	NC
27		4	max	29.909	6-7	0.791	6-7	NC	NC	NC	NC
28			min	-47.999	6-21	-1.269	6-21	NC	NC	NC	NC
29		5	max	29.909	6-7	0.791	6-7	NC	NC	NC	NC
30			min	-47.999	6-21	-1.269	6-21	NC	NC	NC	NC
31	M4	1	max	47.999	6-1	1.269	6-1	NC	NC	NC	NC
32			min	-29.909	6-27	-0.791	6-27	NC	NC	NC	NC
33		2	max	47.999	6-1	1.269	6-1	NC	NC	NC	NC
34			min	-29.909	6-27	-0.791	6-27	NC	NC	NC	NC
35		3	max	47.999	6-1	1.269	6-1	NC	NC	NC	NC
36			min	-29.909	6-27	-0.791	6-27	NC	NC	NC	NC
37		4	max	47.999	6-1	1.269	6-1	NC	NC	NC	NC
38			min	-29.909	6-27	-0.791	6-27	NC	NC	NC	NC
39		5	max	47.999	6-1	1.269	6-1	NC	NC	NC	NC
40			min	-29.909	6-27	-0.791	6-27	NC	NC	NC	NC
41	M5	1	max	32.588	5-7	0.604	5-7	NC	NC	NC	NC
42			min	-35.691	6-1	-0.662	6-1	NC	NC	NC	NC
43		2	max	38.995	5-7	0.723	5-7	NC	NC	NC	NC
44			min	-47.593	6-1	-0.882	6-1	NC	NC	NC	NC
45		3	max	38.995	5-7	0.723	5-7	NC	NC	NC	NC
46			min	-47.593	6-1	-0.882	6-1	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[lb-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
47		4	max	38.995	5-7	0.723	5-7	NC	NC	NC	NC
48			min	-47.593	6-1	-0.882	6-1	NC	NC	NC	NC
49		5	max	68.31	6-36	1.267	6-36	NC	NC	NC	NC
50			min	-55.872	5-38	-1.036	5-38	NC	NC	NC	NC
51	M6	1	max	73.551	6-27	1.364	6-27	NC	NC	NC	NC
52			min	-73.551	6-7	-1.364	6-7	NC	NC	NC	NC
53		2	max	39.705	5-16	0.736	5-16	NC	NC	NC	NC
54			min	-39.705	5-36	-0.736	5-36	NC	NC	NC	NC
55		3	max	39.705	5-16	0.736	5-16	NC	NC	NC	NC
56			min	-39.705	5-36	-0.736	5-36	NC	NC	NC	NC
57		4	max	39.705	5-16	0.736	5-16	NC	NC	NC	NC
58			min	-39.705	5-36	-0.736	5-36	NC	NC	NC	NC
59		5	max	26.733	5-16	0.496	5-16	NC	NC	NC	NC
60			min	-26.733	5-36	-0.496	5-36	NC	NC	NC	NC
61	M7	1	max	13.625	6-1	0.29	6-1	NC	NC	NC	NC
62			min	-9.582	6-28	-0.204	6-28	NC	NC	NC	NC
63		2	max	13.625	6-1	0.29	6-1	NC	NC	NC	NC
64			min	-9.582	6-28	-0.204	6-28	NC	NC	NC	NC
65		3	max	13.625	6-1	0.29	6-1	NC	NC	NC	NC
66			min	-9.582	6-28	-0.204	6-28	NC	NC	NC	NC
67		4	max	13.625	6-1	0.29	6-1	NC	NC	NC	NC
68			min	-9.582	6-28	-0.204	6-28	NC	NC	NC	NC
69		5	max	13.625	6-1	0.29	6-1	NC	NC	NC	NC
70			min	-9.582	6-28	-0.204	6-28	NC	NC	NC	NC
71	M8	1	max	46.035	6-1	1.217	6-1	NC	NC	NC	NC
72			min	-31.839	6-13	-0.842	6-13	NC	NC	NC	NC
73		2	max	46.035	6-1	1.217	6-1	NC	NC	NC	NC
74			min	-31.839	6-13	-0.842	6-13	NC	NC	NC	NC
75		3	max	46.035	6-1	1.217	6-1	NC	NC	NC	NC
76			min	-31.839	6-13	-0.842	6-13	NC	NC	NC	NC
77		4	max	46.035	6-1	1.217	6-1	NC	NC	NC	NC
78			min	-31.839	6-13	-0.842	6-13	NC	NC	NC	NC
79		5	max	46.035	6-1	1.217	6-1	NC	NC	NC	NC
80			min	-31.839	6-13	-0.842	6-13	NC	NC	NC	NC
81	M9	1	max	31.839	6-33	0.842	6-33	NC	NC	NC	NC
82			min	-46.035	6-21	-1.217	6-21	NC	NC	NC	NC
83		2	max	31.839	6-33	0.842	6-33	NC	NC	NC	NC
84			min	-46.035	6-21	-1.217	6-21	NC	NC	NC	NC
85		3	max	31.839	6-33	0.842	6-33	NC	NC	NC	NC
86			min	-46.035	6-21	-1.217	6-21	NC	NC	NC	NC
87		4	max	31.839	6-33	0.842	6-33	NC	NC	NC	NC
88			min	-46.035	6-21	-1.217	6-21	NC	NC	NC	NC
89		5	max	31.839	6-33	0.842	6-33	NC	NC	NC	NC
90			min	-46.035	6-21	-1.217	6-21	NC	NC	NC	NC
91	M10	1	max	9.586	6-33	0.204	6-33	NC	NC	NC	NC
92			min	-12.853	6-21	-0.274	6-21	NC	NC	NC	NC
93		2	max	9.586	6-33	0.204	6-33	NC	NC	NC	NC
94			min	-12.853	6-21	-0.274	6-21	NC	NC	NC	NC
95		3	max	9.586	6-33	0.204	6-33	NC	NC	NC	NC
96			min	-12.853	6-21	-0.274	6-21	NC	NC	NC	NC
97		4	max	9.586	6-33	0.204	6-33	NC	NC	NC	NC
98			min	-12.853	6-21	-0.274	6-21	NC	NC	NC	NC
99		5	max	9.586	6-33	0.204	6-33	NC	NC	NC	NC
100			min	-12.853	6-21	-0.274	6-21	NC	NC	NC	NC
101	M11	1	max	59.633	6-15	1.106	6-15	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[lb-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
102			min	-59.633	6-35	-1.106	6-35	NC	NC	NC	NC
103		2	max	59.633	6-15	1.106	6-15	NC	NC	NC	NC
104			min	-59.633	6-35	-1.106	6-35	NC	NC	NC	NC
105		3	max	59.633	6-15	1.106	6-15	NC	NC	NC	NC
106			min	-59.633	6-35	-1.106	6-35	NC	NC	NC	NC
107		4	max	52.376	4-27	0.971	4-27	NC	NC	NC	NC
108			min	-52.376	4-7	-0.971	4-7	NC	NC	NC	NC
109		5	max	36.175	4-15	0.671	4-15	NC	NC	NC	NC
110			min	-36.175	4-35	-0.671	4-35	NC	NC	NC	NC
111	M12	1	max	12.853	6-1	0.274	6-1	NC	NC	NC	NC
112			min	-9.586	6-13	-0.204	6-13	NC	NC	NC	NC
113		2	max	12.853	6-1	0.274	6-1	NC	NC	NC	NC
114			min	-9.586	6-13	-0.204	6-13	NC	NC	NC	NC
115		3	max	12.853	6-1	0.274	6-1	NC	NC	NC	NC
116			min	-9.586	6-13	-0.204	6-13	NC	NC	NC	NC
117		4	max	12.853	6-1	0.274	6-1	NC	NC	NC	NC
118			min	-9.586	6-13	-0.204	6-13	NC	NC	NC	NC
119		5	max	12.853	6-1	0.274	6-1	NC	NC	NC	NC
120			min	-9.586	6-13	-0.204	6-13	NC	NC	NC	NC
121	M13	1	max	51.114	4-5	0.948	4-5	NC	NC	NC	NC
122			min	-26.829	6-1	-0.497	6-1	NC	NC	NC	NC
123		2	max	63.797	4-5	1.183	4-5	NC	NC	NC	NC
124			min	-34.785	6-1	-0.645	6-1	NC	NC	NC	NC
125		3	max	63.797	4-5	1.183	4-5	NC	NC	NC	NC
126			min	-36.349	6-1	-0.674	6-1	NC	NC	NC	NC
127		4	max	59.331	6-6	1.1	6-6	NC	NC	NC	NC
128			min	-36.349	6-1	-0.674	6-1	NC	NC	NC	NC
129		5	max	59.331	6-6	1.1	6-6	NC	NC	NC	NC
130			min	-36.349	6-1	-0.674	6-1	NC	NC	NC	NC
131	M14	1	max	36.349	6-21	0.674	6-21	NC	NC	NC	NC
132			min	-59.331	6-26	-1.1	6-26	NC	NC	NC	NC
133		2	max	36.349	6-21	0.674	6-21	NC	NC	NC	NC
134			min	-59.331	6-26	-1.1	6-26	NC	NC	NC	NC
135		3	max	36.349	6-21	0.674	6-21	NC	NC	NC	NC
136			min	-63.797	4-25	-1.183	4-25	NC	NC	NC	NC
137		4	max	34.785	6-21	0.645	6-21	NC	NC	NC	NC
138			min	-63.797	4-25	-1.183	4-25	NC	NC	NC	NC
139		5	max	26.829	6-21	0.497	6-21	NC	NC	NC	NC
140			min	-51.114	4-25	-0.948	4-25	NC	NC	NC	NC
141	M15	1	max	13.18	6-1	0.281	6-1	NC	NC	NC	NC
142			min	-13.18	6-21	-0.281	6-21	NC	NC	NC	NC
143		2	max	13.18	6-1	0.281	6-1	NC	NC	NC	NC
144			min	-13.18	6-21	-0.281	6-21	NC	NC	NC	NC
145		3	max	13.18	6-1	0.281	6-1	NC	NC	NC	NC
146			min	-13.18	6-21	-0.281	6-21	NC	NC	NC	NC
147		4	max	13.18	6-1	0.281	6-1	NC	NC	NC	NC
148			min	-13.18	6-21	-0.281	6-21	NC	NC	NC	NC
149		5	max	13.18	6-1	0.281	6-1	NC	NC	NC	NC
150			min	-13.18	6-21	-0.281	6-21	NC	NC	NC	NC
151	M16	1	max	60.723	5-24	1.126	5-24	NC	NC	NC	NC
152			min	-93.184	6-8	-1.728	6-8	NC	NC	NC	NC
153		2	max	40.675	6-21	0.754	6-21	NC	NC	NC	NC
154			min	-55.363	5-27	-1.026	5-27	NC	NC	NC	NC
155		3	max	40.675	6-21	0.754	6-21	NC	NC	NC	NC
156			min	-55.363	5-27	-1.026	5-27	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[lb-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
157		4	max	40.675	6-21	0.754	6-21	NC	NC	NC	NC
158			min	-55.363	5-27	-1.026	5-27	NC	NC	NC	NC
159		5	max	30.595	6-21	0.567	6-21	NC	NC	NC	NC
160			min	-48.32	5-6	-0.896	5-6	NC	NC	NC	NC
161	M17	1	max	44.316	6-1	1.172	6-1	NC	NC	NC	NC
162			min	-44.316	6-21	-1.172	6-21	NC	NC	NC	NC
163		2	max	44.316	6-1	1.172	6-1	NC	NC	NC	NC
164			min	-44.316	6-21	-1.172	6-21	NC	NC	NC	NC
165		3	max	44.316	6-1	1.172	6-1	NC	NC	NC	NC
166			min	-44.316	6-21	-1.172	6-21	NC	NC	NC	NC
167		4	max	44.316	6-1	1.172	6-1	NC	NC	NC	NC
168			min	-44.316	6-21	-1.172	6-21	NC	NC	NC	NC
169		5	max	44.316	6-1	1.172	6-1	NC	NC	NC	NC
170			min	-44.316	6-21	-1.172	6-21	NC	NC	NC	NC
171	M18	1	max	93.184	6-28	1.728	6-28	NC	NC	NC	NC
172			min	-60.723	5-4	-1.126	5-4	NC	NC	NC	NC
173		2	max	55.363	5-7	1.026	5-7	NC	NC	NC	NC
174			min	-40.675	6-1	-0.754	6-1	NC	NC	NC	NC
175		3	max	55.363	5-7	1.026	5-7	NC	NC	NC	NC
176			min	-40.675	6-1	-0.754	6-1	NC	NC	NC	NC
177		4	max	55.363	5-7	1.026	5-7	NC	NC	NC	NC
178			min	-40.675	6-1	-0.754	6-1	NC	NC	NC	NC
179		5	max	48.32	5-26	0.896	5-26	NC	NC	NC	NC
180			min	-30.595	6-1	-0.567	6-1	NC	NC	NC	NC
181	M19	1	max	11.827	6-1	0.252	6-1	NC	NC	NC	NC
182			min	-11.827	6-21	-0.252	6-21	NC	NC	NC	NC
183		2	max	11.827	6-1	0.252	6-1	NC	NC	NC	NC
184			min	-11.827	6-21	-0.252	6-21	NC	NC	NC	NC
185		3	max	11.827	6-1	0.252	6-1	NC	NC	NC	NC
186			min	-11.827	6-21	-0.252	6-21	NC	NC	NC	NC
187		4	max	11.827	6-1	0.252	6-1	NC	NC	NC	NC
188			min	-11.827	6-21	-0.252	6-21	NC	NC	NC	NC
189		5	max	11.827	6-1	0.252	6-1	NC	NC	NC	NC
190			min	-11.827	6-21	-0.252	6-21	NC	NC	NC	NC
191	M20	1	max	33.622	4-9	0.623	4-9	NC	NC	NC	NC
192			min	-83.815	6-26	-1.554	6-26	NC	NC	NC	NC
193		2	max	33.622	4-9	0.623	4-9	NC	NC	NC	NC
194			min	-83.815	6-26	-1.554	6-26	NC	NC	NC	NC
195		3	max	29.564	6-21	0.548	6-21	NC	NC	NC	NC
196			min	-88.433	4-8	-1.64	4-8	NC	NC	NC	NC
197		4	max	28.307	6-21	0.525	6-21	NC	NC	NC	NC
198			min	-88.433	4-8	-1.64	4-8	NC	NC	NC	NC
199		5	max	21.786	6-21	0.404	6-21	NC	NC	NC	NC
200			min	-75.425	4-26	-1.398	4-26	NC	NC	NC	NC
201	M21	1	max	41.771	6-1	1.105	6-1	NC	NC	NC	NC
202			min	-41.771	6-21	-1.105	6-21	NC	NC	NC	NC
203		2	max	41.771	6-1	1.105	6-1	NC	NC	NC	NC
204			min	-41.771	6-21	-1.105	6-21	NC	NC	NC	NC
205		3	max	41.771	6-1	1.105	6-1	NC	NC	NC	NC
206			min	-41.771	6-21	-1.105	6-21	NC	NC	NC	NC
207		4	max	41.771	6-1	1.105	6-1	NC	NC	NC	NC
208			min	-41.771	6-21	-1.105	6-21	NC	NC	NC	NC
209		5	max	41.771	6-1	1.105	6-1	NC	NC	NC	NC
210			min	-41.771	6-21	-1.105	6-21	NC	NC	NC	NC
211	M22	1	max	83.815	6-6	1.554	6-6	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[lb-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
212			min	-33.622	4-29	-0.623	4-29	NC	NC	NC	NC
213		2	max	83.815	6-6	1.554	6-6	NC	NC	NC	NC
214			min	-33.622	4-29	-0.623	4-29	NC	NC	NC	NC
215		3	max	88.433	4-28	1.64	4-28	NC	NC	NC	NC
216			min	-29.564	6-1	-0.548	6-1	NC	NC	NC	NC
217		4	max	88.433	4-28	1.64	4-28	NC	NC	NC	NC
218			min	-28.307	6-1	-0.525	6-1	NC	NC	NC	NC
219		5	max	75.425	4-6	1.398	4-6	NC	NC	NC	NC
220			min	-21.786	6-1	-0.404	6-1	NC	NC	NC	NC
221	M23	1	max	31.697	6-34	0.838	6-34	NC	NC	NC	NC
222			min	-49.729	6-21	-1.315	6-21	NC	NC	NC	NC
223		2	max	31.697	6-34	0.838	6-34	NC	NC	NC	NC
224			min	-49.729	6-21	-1.315	6-21	NC	NC	NC	NC
225		3	max	31.697	6-34	0.838	6-34	NC	NC	NC	NC
226			min	-49.729	6-21	-1.315	6-21	NC	NC	NC	NC
227		4	max	31.697	6-34	0.838	6-34	NC	NC	NC	NC
228			min	-49.729	6-21	-1.315	6-21	NC	NC	NC	NC
229		5	max	31.697	6-34	0.838	6-34	NC	NC	NC	NC
230			min	-49.729	6-21	-1.315	6-21	NC	NC	NC	NC
231	M24	1	max	49.729	6-1	1.315	6-1	NC	NC	NC	NC
232			min	-31.697	6-14	-0.838	6-14	NC	NC	NC	NC
233		2	max	49.729	6-1	1.315	6-1	NC	NC	NC	NC
234			min	-31.697	6-14	-0.838	6-14	NC	NC	NC	NC
235		3	max	49.729	6-1	1.315	6-1	NC	NC	NC	NC
236			min	-31.697	6-14	-0.838	6-14	NC	NC	NC	NC
237		4	max	49.729	6-1	1.315	6-1	NC	NC	NC	NC
238			min	-31.697	6-14	-0.838	6-14	NC	NC	NC	NC
239		5	max	49.729	6-1	1.315	6-1	NC	NC	NC	NC
240			min	-31.697	6-14	-0.838	6-14	NC	NC	NC	NC
241	M25	1	max	46.328	6-1	1.225	6-1	NC	NC	NC	NC
242			min	-46.328	6-21	-1.225	6-21	NC	NC	NC	NC
243		2	max	46.328	6-1	1.225	6-1	NC	NC	NC	NC
244			min	-46.328	6-21	-1.225	6-21	NC	NC	NC	NC
245		3	max	46.328	6-1	1.225	6-1	NC	NC	NC	NC
246			min	-46.328	6-21	-1.225	6-21	NC	NC	NC	NC
247		4	max	46.328	6-1	1.225	6-1	NC	NC	NC	NC
248			min	-46.328	6-21	-1.225	6-21	NC	NC	NC	NC
249		5	max	46.328	6-1	1.225	6-1	NC	NC	NC	NC
250			min	-46.328	6-21	-1.225	6-21	NC	NC	NC	NC
251	M26	1	max	37.861	6-1	1.001	6-1	NC	NC	NC	NC
252			min	-27.376	6-13	-0.724	6-13	NC	NC	NC	NC
253		2	max	37.861	6-1	1.001	6-1	NC	NC	NC	NC
254			min	-27.376	6-13	-0.724	6-13	NC	NC	NC	NC
255		3	max	37.861	6-1	1.001	6-1	NC	NC	NC	NC
256			min	-27.376	6-13	-0.724	6-13	NC	NC	NC	NC
257		4	max	37.861	6-1	1.001	6-1	NC	NC	NC	NC
258			min	-27.376	6-13	-0.724	6-13	NC	NC	NC	NC
259		5	max	37.861	6-1	1.001	6-1	NC	NC	NC	NC
260			min	-27.376	6-13	-0.724	6-13	NC	NC	NC	NC
261	M27	1	max	27.376	6-33	0.724	6-33	NC	NC	NC	NC
262			min	-37.861	6-21	-1.001	6-21	NC	NC	NC	NC
263		2	max	27.376	6-33	0.724	6-33	NC	NC	NC	NC
264			min	-37.861	6-21	-1.001	6-21	NC	NC	NC	NC
265		3	max	27.376	6-33	0.724	6-33	NC	NC	NC	NC
266			min	-37.861	6-21	-1.001	6-21	NC	NC	NC	NC

Envelope Member Torsion Stresses (Continued)

	Member	Sec		Torque[lb-ft]	LC	Torsion Shear[ksi]	LC	y-y Warp Shear[ksi]	z-z Warp Shear[ksi]	z-Top Warp Bend[ksi]	z-Bot Warp Bend[ksi]
267		4	max	27.376	6-33	0.724	6-33	NC	NC	NC	NC
268			min	-37.861	6-21	-1.001	6-21	NC	NC	NC	NC
269		5	max	27.376	6-33	0.724	6-33	NC	NC	NC	NC
270			min	-37.861	6-21	-1.001	6-21	NC	NC	NC	NC
271	M28	1	max	34.594	6-1	0.915	6-1	NC	NC	NC	NC
272			min	-34.594	6-21	-0.915	6-21	NC	NC	NC	NC
273		2	max	34.594	6-1	0.915	6-1	NC	NC	NC	NC
274			min	-34.594	6-21	-0.915	6-21	NC	NC	NC	NC
275		3	max	34.594	6-1	0.915	6-1	NC	NC	NC	NC
276			min	-34.594	6-21	-0.915	6-21	NC	NC	NC	NC
277		4	max	34.594	6-1	0.915	6-1	NC	NC	NC	NC
278			min	-34.594	6-21	-0.915	6-21	NC	NC	NC	NC
279		5	max	34.594	6-1	0.915	6-1	NC	NC	NC	NC
280			min	-34.594	6-21	-0.915	6-21	NC	NC	NC	NC

Envelope Member Section Stresses

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
1	M1	1	max	0.002	6-40	-0.009	6-40	0.028	5-19	0.049	6-40	-0.049	6-40	1.495	6-21	0.932	6-7
2			min	0.002	1	-0.009	1	-0.326	6-21	0.049	1	-0.049	1	-0.932	6-7	-1.495	6-21
3		2	max	0.005	6-40	-0.001	6-40	0.011	6-1	0.016	6-40	-0.016	6-40	0.292	5-21	2.223	6-31
4			min	0.005	1	-0.001	1	-0.317	5-21	0.016	1	-0.016	1	-2.223	6-31	-0.292	5-21
5		3	max	0.007	6-40	-0.001	6-40	0.011	6-1	0.002	6-40	-0.002	6-40	0	4-40	6.631	6-21
6			min	0.007	1	-0.001	1	-0.317	5-21	0.002	1	-0.002	1	-6.631	6-21	0	1
7		4	max	0.008	6-40	-0.001	6-40	0.011	6-1	-0.011	6-40	0.011	6-40	0	4-40	11.399	6-21
8			min	0.008	1	-0.001	1	-0.317	5-21	-0.011	1	0.011	1	-11.399	6-21	0	1
9		5	max	0.011	6-40	-0.005	6-40	0.015	6-1	0.008	6-40	-0.008	6-40	0	4-40	15.784	6-21
10			min	0.011	1	-0.005	1	-0.323	5-21	0.008	1	-0.008	1	-15.784	6-21	0	1
11	M2	1	max	0.002	6-40	0.005	6-40	0.009	6-21	-0.071	6-40	0.071	6-40	0.32	5-6	0.318	6-21
12			min	0.002	1	0.005	1	-0.007	6-6	-0.071	1	0.071	1	-0.318	6-21	-0.32	5-6
13		2	max	0.002	6-40	0.003	6-40	0.009	6-21	0.008	6-40	-0.008	6-40	0.183	5-36	0.161	5-15
14			min	0.002	1	0.003	1	-0.007	6-6	0.008	1	-0.008	1	-0.161	5-15	-0.183	5-36
15		3	max	0.002	6-40	0	6-40	0.009	6-21	0.035	6-40	-0.035	6-40	0.05	6-21	0.182	5-15
16			min	0.002	1	0	1	-0.007	6-6	0.035	1	-0.035	1	-0.182	5-15	-0.05	6-21
17		4	max	0.002	6-40	-0.002	6-40	0.009	6-21	0.012	6-40	-0.012	6-40	0.234	6-21	0.204	5-15
18			min	0.002	1	-0.002	1	-0.007	6-6	0.012	1	-0.012	1	-0.204	5-15	-0.234	6-21
19		5	max	0.002	6-40	-0.005	6-40	0.009	6-21	-0.062	6-40	0.062	6-40	0.419	6-21	0.277	6-33
20			min	0.002	1	-0.005	1	-0.007	6-6	-0.062	1	0.062	1	-0.277	6-33	-0.419	6-21
21	M3	1	max	0.006	6-40	0.006	6-40	0.041	5-30	-0.1	6-40	0.1	6-40	4.241	6-26	3.355	5-12
22			min	0.006	1	0.006	1	-0.461	6-11	-0.1	1	0.1	1	-3.355	5-12	-4.241	6-26
23		2	max	0.006	6-40	0.003	6-40	0.092	6-29	0.01	6-40	-0.01	6-40	1.418	6-21	6.917	6-13
24			min	0.006	1	0.003	1	-0.391	6-13	0.01	1	-0.01	1	-6.917	6-13	-1.418	6-21
25		3	max	0.006	6-40	0	6-40	0.24	6-26	0.05	6-40	-0.05	6-40	0.753	6-38	8.318	6-26
26			min	0.006	1	0	1	-0.232	6-16	0.05	1	-0.05	1	-8.318	6-26	-0.753	6-38
27		4	max	0.006	6-40	-0.003	6-40	0.351	6-24	0.019	6-40	-0.019	6-40	0.693	6-37	5.921	6-18
28			min	0.006	1	-0.003	1	-0.125	6-18	0.019	1	-0.019	1	-5.921	6-18	-0.693	6-37
29		5	max	0.006	6-40	-0.006	6-40	0.469	6-20	-0.083	6-40	0.083	6-40	3.616	6-16	2.958	5-18
30			min	0.006	1	-0.006	1	-0.042	6-21	-0.083	1	0.083	1	-2.958	5-18	-3.616	6-16
31	M4	1	max	0.006	6-40	0.006	6-40	0.042	6-1	-0.083	6-40	0.083	6-40	3.616	6-36	2.958	5-38
32			min	0.006	1	0.006	1	-0.469	6-40	-0.083	1	0.083	1	-2.958	5-38	-3.616	6-36
33		2	max	0.006	6-40	0.003	6-40	0.125	6-38	0.019	6-40	-0.019	6-40	0.693	6-17	5.921	6-38
34			min	0.006	1	0.003	1	-0.351	6-4	0.019	1	-0.019	1	-5.921	6-38	-0.693	6-17
35		3	max	0.006	6-40	0	6-40	0.232	6-36	0.05	6-40	-0.05	6-40	0.753	6-18	8.318	6-6
36			min	0.006	1	0	1	-0.24	6-6	0.05	1	-0.05	1	-8.318	6-6	-0.753	6-18
37		4	max	0.006	6-40	-0.003	6-40	0.391	6-33	0.01	6-40	-0.01	6-40	1.418	6-1	6.917	6-33
38			min	0.006	1	-0.003	1	-0.092	6-9	0.01	1	-0.01	1	-6.917	6-33	-1.418	6-1

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
39		5	max	0.006	6-40	-0.006	6-40	0.461	6-31	-0.1	6-40	0.1	6-40	4.241	6-6	3.355	5-32
40			min	0.006	1	-0.006	1	-0.041	5-10	-0.1	1	0.1	1	-3.355	5-32	-4.241	6-6
41	M5	1	max	0.011	6-40	-0.005	6-40	0.015	6-21	-0.008	6-40	0.008	6-40	15.784	6-1	0	4-40
42			min	0.011	1	-0.005	1	-0.323	5-1	-0.008	1	0.008	1	0	1	-15.784	6-1
43		2	max	0.008	6-40	-0.001	6-40	0.011	6-21	0.011	6-40	-0.011	6-40	11.399	6-1	0	4-40
44			min	0.008	1	-0.001	1	-0.317	5-1	0.011	1	-0.011	1	0	1	-11.399	6-1
45		3	max	0.007	6-40	-0.001	6-40	0.011	6-21	-0.002	6-40	0.002	6-40	6.631	6-1	0	4-40
46			min	0.007	1	-0.001	1	-0.317	5-1	-0.002	1	0.002	1	0	1	-6.631	6-1
47		4	max	0.005	6-40	-0.001	6-40	0.011	6-21	-0.016	6-40	0.016	6-40	2.223	6-11	0.292	5-1
48			min	0.005	1	-0.001	1	-0.317	5-1	-0.016	1	0.016	1	-0.292	5-1	-2.223	6-11
49		5	max	0.002	6-40	-0.009	6-40	0.028	5-39	-0.049	6-40	0.049	6-40	0.932	6-27	1.495	6-1
50			min	0.002	1	-0.009	1	-0.326	6-1	-0.049	1	0.049	1	-1.495	6-1	-0.932	6-27
51	M6	1	max	0.005	6-40	0	6-40	0.052	5-11	0	6-40	0	6-40	1.5	6-11	0.753	6-21
52			min	0.005	1	0	1	-0.29	6-11	0	1	0	1	-0.753	6-21	-1.5	6-11
53		2	max	0.01	6-40	0	6-40	0	4-40	0	6-40	0	6-40	0.822	5-11	2.222	6-1
54			min	0.01	1	0	1	-0.259	5-31	0	1	0	1	-2.222	6-1	-0.822	5-11
55		3	max	0.011	6-40	0	6-40	0	4-40	0	6-40	0	6-40	0	4-40	4.761	6-31
56			min	0.011	1	0	1	-0.259	5-31	0	1	0	1	-4.761	6-31	0	1
57		4	max	0.012	6-40	0	6-40	0	4-40	0	6-40	0	6-40	0	4-40	8.499	6-31
58			min	0.012	1	0	1	-0.259	5-31	0	1	0	1	-8.499	6-31	0	1
59		5	max	0.018	6-40	0	6-40	0	4-40	0	6-40	0	6-40	0	4-40	11.756	6-31
60			min	0.018	1	0	1	-0.265	5-31	0	1	0	1	-11.756	6-31	0	1
61	M7	1	max	0.002	6-40	0.005	6-40	0.007	6-26	-0.062	6-40	0.062	6-40	0.419	6-1	0.277	6-13
62			min	0.002	1	0.005	1	-0.009	6-1	-0.062	1	0.062	1	-0.277	6-13	-0.419	6-1
63		2	max	0.002	6-40	0.002	6-40	0.007	6-26	0.012	6-40	-0.012	6-40	0.234	6-1	0.204	5-35
64			min	0.002	1	0.002	1	-0.009	6-1	0.012	1	-0.012	1	-0.204	5-35	-0.234	6-1
65		3	max	0.002	6-40	0	6-40	0.007	6-26	0.035	6-40	-0.035	6-40	0.05	6-1	0.182	5-35
66			min	0.002	1	0	1	-0.009	6-1	0.035	1	-0.035	1	-0.182	5-35	-0.05	6-1
67		4	max	0.002	6-40	-0.003	6-40	0.007	6-26	0.008	6-40	-0.008	6-40	0.183	5-16	0.161	5-35
68			min	0.002	1	-0.003	1	-0.009	6-1	0.008	1	-0.008	1	-0.161	5-35	-0.183	5-16
69		5	max	0.002	6-40	-0.005	6-40	0.007	6-26	-0.071	6-40	0.071	6-40	0.32	5-26	0.318	6-1
70			min	0.002	1	-0.005	1	-0.009	6-1	-0.071	1	0.071	1	-0.318	6-1	-0.32	5-26
71	M8	1	max	0.002	6-40	0.006	6-40	0.044	6-1	-0.08	6-40	0.08	6-40	3.141	6-6	1.924	6-1
72			min	0.002	1	0.006	1	-0.465	6-40	-0.08	1	0.08	1	-1.924	6-1	-3.141	6-6
73		2	max	0.002	6-40	0.003	6-40	0.135	6-38	0.021	6-40	-0.021	6-40	0.827	6-15	6.404	6-38
74			min	0.002	1	0.003	1	-0.341	6-4	0.021	1	-0.021	1	-6.404	6-38	-0.827	6-15
75		3	max	0.002	6-40	0	6-40	0.238	6-36	0.051	6-40	-0.051	6-40	0.95	6-16	8.476	6-6
76			min	0.002	1	0	1	-0.236	6-6	0.051	1	-0.051	1	-8.476	6-6	-0.95	6-16
77		4	max	0.002	6-40	-0.003	6-40	0.387	6-33	0.01	6-40	-0.01	6-40	1.33	6-1	6.984	6-33
78			min	0.002	1	-0.003	1	-0.096	6-9	0.01	1	-0.01	1	-6.984	6-33	-1.33	6-1
79		5	max	0.002	6-40	-0.006	6-40	0.458	6-31	-0.101	6-40	0.101	6-40	4.292	6-36	2.54	6-11
80			min	0.002	1	-0.006	1	-0.041	6-11	-0.101	1	0.101	1	-2.54	6-11	-4.292	6-36
81	M9	1	max	0.002	6-40	0.006	6-40	0.041	6-31	-0.101	6-40	0.101	6-40	4.292	6-16	2.54	6-31
82			min	0.002	1	0.006	1	-0.458	6-11	-0.101	1	0.101	1	-2.54	6-31	-4.292	6-16
83		2	max	0.002	6-40	0.003	6-40	0.096	6-29	0.01	6-40	-0.01	6-40	1.33	6-21	6.984	6-13
84			min	0.002	1	0.003	1	-0.387	6-13	0.01	1	-0.01	1	-6.984	6-13	-1.33	6-21
85		3	max	0.002	6-40	0	6-40	0.236	6-26	0.051	6-40	-0.051	6-40	0.95	6-36	8.476	6-26
86			min	0.002	1	0	1	-0.238	6-16	0.051	1	-0.051	1	-8.476	6-26	-0.95	6-36
87		4	max	0.002	6-40	-0.003	6-40	0.341	6-24	0.021	6-40	-0.021	6-40	0.827	6-35	6.404	6-18
88			min	0.002	1	-0.003	1	-0.135	6-18	0.021	1	-0.021	1	-6.404	6-18	-0.827	6-35
89		5	max	0.002	6-40	-0.006	6-40	0.465	6-20	-0.08	6-40	0.08	6-40	3.141	6-26	1.924	6-21
90			min	0.002	1	-0.006	1	-0.044	6-21	-0.08	1	0.08	1	-1.924	6-21	-3.141	6-26
91	M10	1	max	0.001	6-40	0.005	6-40	0.006	6-21	-0.07	6-40	0.07	6-40	0.367	4-35	0.237	4-28
92			min	0.001	1	0.005	1	-0.006	4-35	-0.07	1	0.07	1	-0.237	4-28	-0.367	4-35
93		2	max	0.001	6-40	0.003	6-40	0.006	6-21	0.008	6-40	-0.008	6-40	0.246	4-35	0.23	4-14

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
94			min	0.001	1	0.003	1	-0.006	4-35	0.008	1	-0.008	1	-0.23	4-14	-0.246	4-35
95		3	max	0.001	6-40	0	6-40	0.006	6-21	0.035	6-40	-0.035	6-40	0.125	4-35	0.266	4-26
96			min	0.001	1	0	1	-0.006	4-35	0.035	1	-0.035	1	-0.266	4-26	-0.125	4-35
97		4	max	0.001	6-40	-0.002	6-40	0.006	6-21	0.011	6-40	-0.011	6-40	0.16	6-21	0.355	4-25
98			min	0.001	1	-0.002	1	-0.006	4-35	0.011	1	-0.011	1	-0.355	4-25	-0.16	6-21
99		5	max	0.001	6-40	-0.005	6-40	0.006	6-21	-0.063	6-40	0.063	6-40	0.28	6-21	0.46	4-17
100			min	0.001	1	-0.005	1	-0.006	4-35	-0.063	1	0.063	1	-0.46	4-17	-0.28	6-21
101	M11	1	max	0.005	6-40	0	6-40	0.021	4-11	0	6-40	0	6-40	1.78	6-11	0.894	6-21
102			min	0.005	1	0	1	-0.287	6-11	0	1	0	1	-0.894	6-21	-1.78	6-11
103		2	max	0.006	6-40	0	6-40	0.021	4-11	0	6-40	0	6-40	0.572	4-11	2.005	6-11
104			min	0.006	1	0	1	-0.287	6-11	0	1	0	1	-2.005	6-11	-0.572	4-11
105		3	max	0.011	6-40	0	6-40	0	5-40	0	6-40	0	6-40	1.434	4-31	5.79	6-11
106			min	0.011	1	0	1	-0.322	4-31	0	1	0	1	-5.79	6-11	-1.434	4-31
107		4	max	0.012	6-40	0	6-40	0	5-40	0	6-40	0	6-40	0	5-40	7.87	6-11
108			min	0.012	1	0	1	-0.322	4-31	0	1	0	1	-7.87	6-11	0	1
109		5	max	0.018	6-40	0	6-40	0	5-40	0	6-40	0	6-40	0	5-40	10.989	6-11
110			min	0.018	1	0	1	-0.323	4-11	0	1	0	1	-10.989	6-11	0	1
111	M12	1	max	0.001	6-40	0.005	6-40	0.006	4-15	-0.063	6-40	0.063	6-40	0.28	6-1	0.46	4-37
112			min	0.001	1	0.005	1	-0.006	6-1	-0.063	1	0.063	1	-0.46	4-37	-0.28	6-1
113		2	max	0.001	6-40	0.002	6-40	0.006	4-15	0.011	6-40	-0.011	6-40	0.16	6-1	0.355	4-5
114			min	0.001	1	0.002	1	-0.006	6-1	0.011	1	-0.011	1	-0.355	4-5	-0.16	6-1
115		3	max	0.001	6-40	0	6-40	0.006	4-15	0.035	6-40	-0.035	6-40	0.125	4-15	0.266	4-6
116			min	0.001	1	0	1	-0.006	6-1	0.035	1	-0.035	1	-0.266	4-6	-0.125	4-15
117		4	max	0.001	6-40	-0.003	6-40	0.006	4-15	0.008	6-40	-0.008	6-40	0.246	4-15	0.23	4-34
118			min	0.001	1	-0.003	1	-0.006	6-1	0.008	1	-0.008	1	-0.23	4-34	-0.246	4-15
119		5	max	0.001	6-40	-0.005	6-40	0.006	4-15	-0.07	6-40	0.07	6-40	0.367	4-15	0.237	4-8
120			min	0.001	1	-0.005	1	-0.006	6-1	-0.07	1	0.07	1	-0.237	4-8	-0.367	4-15
121	M13	1	max	0.01	6-40	-0.005	6-40	0.019	4-26	-0.003	6-40	0.003	6-40	14.104	6-1	0	5-40
122			min	0.01	1	-0.005	1	-0.344	4-1	-0.003	1	0.003	1	0	1	-14.104	6-1
123		2	max	0.007	6-40	-0.002	6-40	0.014	4-26	0.008	6-40	-0.008	6-40	10.211	6-1	0	5-40
124			min	0.007	1	-0.002	1	-0.342	4-1	0.008	1	-0.008	1	0	1	-10.211	6-1
125		3	max	0.006	6-40	-0.002	6-34	0.014	4-26	0.03	6-40	-0.03	6-40	7.124	6-1	0.969	4-1
126			min	0.006	1	-0.003	1	-0.342	4-1	0.03	1	-0.03	1	-0.969	4-1	-7.124	6-1
127		4	max	0.003	6-40	-0.003	6-40	0.013	4-3	-0.009	6-40	0.009	6-40	2.845	6-1	0.424	4-1
128			min	0.003	1	-0.003	1	-0.325	6-1	-0.009	1	0.009	1	-0.424	4-1	-2.845	6-1
129		5	max	0.002	6-40	-0.003	6-40	0.013	4-3	-0.047	6-40	0.047	6-40	0.992	6-13	1.434	6-1
130			min	0.002	1	-0.003	1	-0.325	6-1	-0.047	1	0.047	1	-1.434	6-1	-0.992	6-13
131	M14	1	max	0.002	6-40	-0.003	6-40	0.013	4-23	0.047	6-40	-0.047	6-40	1.434	6-21	0.992	6-33
132			min	0.002	1	-0.003	1	-0.325	6-21	0.047	1	-0.047	1	-0.992	6-33	-1.434	6-21
133		2	max	0.003	6-40	-0.003	6-40	0.013	4-23	0.009	6-40	-0.009	6-40	0.424	4-21	2.845	6-21
134			min	0.003	1	-0.003	1	-0.325	6-21	0.009	1	-0.009	1	-2.845	6-21	-0.424	4-21
135		3	max	0.006	6-40	-0.002	6-40	0.014	4-6	-0.03	6-40	0.03	6-40	0.969	4-21	7.124	6-21
136			min	0.006	1	-0.003	1	-0.342	4-21	-0.03	1	0.03	1	-7.124	6-21	-0.969	4-21
137		4	max	0.007	6-40	-0.002	6-40	0.014	4-6	-0.008	6-40	0.008	6-40	0	5-40	10.211	6-21
138			min	0.007	1	-0.002	1	-0.342	4-21	-0.008	1	0.008	1	-10.211	6-21	0	1
139		5	max	0.01	6-40	-0.005	6-40	0.019	4-6	0.003	6-40	-0.003	6-40	0	5-40	14.104	6-21
140			min	0.01	1	-0.005	1	-0.344	4-21	0.003	1	-0.003	1	-14.104	6-21	0	1
141	M15	1	max	0.005	6-40	0.006	6-40	0.007	6-21	-0.096	6-40	0.096	6-40	0.355	6-1	0.355	6-21
142			min	0.005	1	0.006	1	-0.007	6-1	-0.096	1	0.096	1	-0.355	6-21	-0.355	6-1
143		2	max	0.005	6-40	0.003	6-40	0.007	6-21	0.016	6-40	-0.016	6-40	0.177	6-1	0.249	5-7
144			min	0.005	1	0.003	1	-0.007	6-1	0.016	1	-0.016	1	-0.249	5-7	-0.177	6-1
145		3	max	0.005	6-40	0	6-40	0.007	6-21	0.053	6-40	-0.053	6-40	0	6-40	0.249	5-27
146			min	0.005	1	0	1	-0.007	6-1	0.053	1	-0.053	1	-0.249	5-7	0	1
147		4	max	0.005	6-40	-0.003	6-40	0.007	6-21	0.016	6-40	-0.016	6-40	0.177	6-21	0.249	5-27
148			min	0.005	1	-0.003	1	-0.007	6-1	0.016	1	-0.016	1	-0.249	5-27	-0.177	6-21

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
149		5	max	0.005	6-40	-0.006	6-40	0.007	6-21	-0.096	6-40	0.096	6-40	0.355	6-21	0.355	6-1
150			min	0.005	1	-0.006	1	-0.007	6-1	-0.096	1	0.096	1	-0.355	6-1	-0.355	6-21
151	M16	1	max	0.003	6-40	-0.015	6-40	0.019	5-23	0.078	6-40	-0.078	6-40	1.381	6-21	1.381	6-1
152			min	0.003	1	-0.015	1	-0.339	6-21	0.078	1	-0.078	1	-1.381	6-1	-1.381	6-21
153		2	max	0.007	6-40	-0.001	6-40	0	6-40	0.02	6-40	-0.02	6-40	0	6-40	3.132	6-1
154			min	0.007	1	-0.001	1	-0.335	5-21	0.02	1	-0.02	1	-3.132	6-1	0	1
155		3	max	0.008	6-40	-0.001	6-40	0	6-40	0.002	6-40	-0.002	6-40	0	6-40	7.421	6-21
156			min	0.008	1	-0.001	1	-0.335	5-21	0.002	1	-0.002	1	-7.421	6-21	0	1
157		4	max	0.009	6-40	-0.001	6-40	0	6-40	-0.016	6-40	0.016	6-40	0	6-40	12.509	6-21
158			min	0.009	1	-0.001	1	-0.335	5-21	-0.016	1	0.016	1	-12.509	6-21	0	1
159		5	max	0.013	6-40	-0.009	6-40	0	6-40	0.007	6-40	-0.007	6-40	0	6-40	17.218	6-21
160			min	0.013	1	-0.009	1	-0.339	5-21	0.007	1	-0.007	1	-17.218	6-21	0	1
161	M17	1	max	0.011	6-40	0.007	6-40	0.029	5-31	-0.132	6-40	0.132	6-40	4.933	6-28	3.215	5-4
162			min	0.011	1	0.007	1	-0.478	6-32	-0.132	1	0.132	1	-3.215	5-4	-4.933	6-28
163		2	max	0.011	6-40	0.003	6-40	0.107	6-30	0.024	6-40	-0.024	6-40	0.72	6-21	7.448	6-4
164			min	0.011	1	0.003	1	-0.392	6-4	0.024	1	-0.024	1	-7.448	6-4	-0.72	6-21
165		3	max	0.011	6-40	0	6-40	0.248	6-27	0.075	6-40	-0.075	6-40	0	6-40	10.069	6-7
166			min	0.011	1	0	1	-0.248	6-7	0.075	1	-0.075	1	-10.069	6-7	0	1
167		4	max	0.011	6-40	-0.003	6-40	0.392	6-24	0.024	6-40	-0.024	6-40	0.72	6-1	7.448	6-24
168			min	0.011	1	-0.003	1	-0.107	6-10	0.024	1	-0.024	1	-7.448	6-24	-0.72	6-1
169		5	max	0.011	6-40	-0.007	6-40	0.478	6-12	-0.132	6-40	0.132	6-40	4.933	6-8	3.215	5-24
170			min	0.011	1	-0.007	1	-0.029	5-11	-0.132	1	0.132	1	-3.215	5-24	-4.933	6-8
171	M18	1	max	0.003	6-40	0.015	6-40	0.019	5-3	-0.078	6-40	0.078	6-40	1.381	6-1	1.381	6-21
172			min	0.003	1	0.015	1	-0.339	6-1	-0.078	1	0.078	1	-1.381	6-21	-1.381	6-1
173		2	max	0.007	6-40	0.001	6-40	0	6-40	-0.02	6-40	0.02	6-40	0	6-40	3.132	6-21
174			min	0.007	1	0.001	1	-0.335	5-1	-0.02	1	0.02	1	-3.132	6-21	0	1
175		3	max	0.008	6-40	0.001	6-40	0	6-40	-0.002	6-40	0.002	6-40	0	6-40	7.421	6-1
176			min	0.008	1	0.001	1	-0.335	5-1	-0.002	1	0.002	1	-7.421	6-1	0	1
177		4	max	0.009	6-40	0.001	6-40	0	6-40	0.016	6-40	-0.016	6-40	0	6-40	12.509	6-1
178			min	0.009	1	0.001	1	-0.335	5-1	0.016	1	-0.016	1	-12.509	6-1	0	1
179		5	max	0.013	6-40	0.009	6-40	0	6-40	-0.007	6-40	0.007	6-40	0	6-40	17.218	6-1
180			min	0.013	1	0.009	1	-0.339	5-1	-0.007	1	0.007	1	-17.218	6-1	0	1
181	M19	1	max	0.003	6-40	0.006	6-40	0.005	6-21	-0.096	6-40	0.096	6-40	0.229	6-1	0.482	4-29
182			min	0.003	1	0.006	1	-0.005	6-1	-0.096	1	0.096	1	-0.482	4-29	-0.229	6-1
183		2	max	0.003	6-40	0.003	6-40	0.005	6-21	0.015	6-40	-0.015	6-40	0.115	6-1	0.412	4-28
184			min	0.003	1	0.003	1	-0.005	6-1	0.015	1	-0.015	1	-0.412	4-28	-0.115	6-1
185		3	max	0.003	6-40	0	6-40	0.005	6-21	0.052	6-40	-0.052	6-40	0	6-40	0.379	4-27
186			min	0.003	1	0	1	-0.005	6-1	0.052	1	-0.052	1	-0.379	4-27	0	1
187		4	max	0.003	6-40	-0.003	6-40	0.005	6-21	0.015	6-40	-0.015	6-40	0.115	6-21	0.412	4-8
188			min	0.003	1	-0.003	1	-0.005	6-1	0.015	1	-0.015	1	-0.412	4-8	-0.115	6-21
189		5	max	0.003	6-40	-0.006	6-40	0.005	6-21	-0.096	6-40	0.096	6-40	0.229	6-21	0.482	4-9
190			min	0.003	1	-0.006	1	-0.005	6-1	-0.096	1	0.096	1	-0.482	4-9	-0.229	6-21
191	M20	1	max	0.003	6-40	-0.005	6-40	0.01	4-23	0.076	6-40	-0.076	6-40	1.301	6-21	1.301	6-1
192			min	0.003	1	-0.005	1	-0.337	6-21	0.076	1	-0.076	1	-1.301	6-1	-1.301	6-21
193		2	max	0.004	6-40	-0.005	6-40	0.01	4-23	0.015	6-40	-0.015	6-40	0.357	4-21	3.14	6-21
194			min	0.004	1	-0.005	1	-0.337	6-21	0.015	1	-0.015	1	-3.14	6-21	-0.357	4-21
195		3	max	0.007	6-40	-0.003	6-32	0	6-40	-0.047	6-40	0.047	6-40	0.814	4-21	7.582	6-21
196			min	0.007	1	-0.005	1	-0.348	4-21	-0.047	1	0.047	1	-7.582	6-21	-0.814	4-21
197		4	max	0.008	6-40	-0.003	6-40	0	6-40	-0.012	6-40	0.012	6-40	0	6-40	10.957	6-21
198			min	0.008	1	-0.003	1	-0.348	4-21	-0.012	1	0.012	1	-10.957	6-21	0	1
199		5	max	0.012	6-40	-0.008	6-40	0	6-40	0.001	6-40	-0.001	6-40	0	6-40	15.063	6-21
200			min	0.012	1	-0.008	1	-0.349	4-21	0.001	1	-0.001	1	-15.063	6-21	0	1
201	M21	1	max	0.003	6-40	0.007	6-40	0.026	6-1	-0.129	6-40	0.129	6-40	4.437	6-6	1.78	4-29
202			min	0.003	1	0.007	1	-0.473	6-32	-0.129	1	0.129	1	-1.78	4-29	-4.437	6-6
203		2	max	0.003	6-40	0.003	6-40	0.114	6-30	0.027	6-40	-0.027	6-40	0.783	6-21	7.928	6-4

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
204			min	0.003	1	0.003	1	-0.385	6-4	0.027	1	-0.027	1	-7.928	6-4	-0.783	6-21
205		3	max	0.003	6-40	0	6-40	0.249	6-27	0.078	6-40	-0.078	6-40	0	6-40	10.422	6-7
206			min	0.003	1	0	1	-0.249	6-7	0.078	1	-0.078	1	-10.422	6-7	0	1
207		4	max	0.003	6-40	-0.003	6-40	0.385	6-24	0.027	6-40	-0.027	6-40	0.783	6-1	7.928	6-24
208			min	0.003	1	-0.003	1	-0.114	6-10	0.027	1	-0.027	1	-7.928	6-24	-0.783	6-1
209		5	max	0.003	6-40	-0.007	6-40	0.473	6-12	-0.129	6-40	0.129	6-40	4.437	6-26	1.78	4-9
210			min	0.003	1	-0.007	1	-0.026	6-21	-0.129	1	0.129	1	-1.78	4-9	-4.437	6-26
211	M22	1	max	0.003	6-40	0.005	6-40	0.01	4-3	-0.076	6-40	0.076	6-40	1.301	6-1	1.301	6-21
212			min	0.003	1	0.005	1	-0.337	6-1	-0.076	1	0.076	1	-1.301	6-21	-1.301	6-1
213		2	max	0.004	6-40	0.005	6-40	0.01	4-3	-0.015	6-40	0.015	6-40	0.357	4-1	3.14	6-1
214			min	0.004	1	0.005	1	-0.337	6-1	-0.015	1	0.015	1	-3.14	6-1	-0.357	4-1
215		3	max	0.007	6-40	0.005	6-40	0	6-40	0.047	6-40	-0.047	6-40	0.814	4-1	7.582	6-1
216			min	0.007	1	0.003	4-1	-0.348	4-1	0.047	1	-0.047	1	-7.582	6-1	-0.814	4-1
217		4	max	0.008	6-40	0.003	6-40	0	6-40	0.012	6-40	-0.012	6-40	0	6-40	10.957	6-1
218			min	0.008	1	0.003	1	-0.348	4-1	0.012	1	-0.012	1	-10.957	6-1	0	1
219		5	max	0.012	6-40	0.008	6-40	0	6-40	-0.001	6-40	0.001	6-40	0	6-40	15.063	6-1
220			min	0.012	1	0.008	1	-0.349	4-1	-0.001	1	0.001	1	-15.063	6-1	0	1
221	M23	1	max	-0.006	6-40	0.006	6-40	0.037	6-30	-0.098	6-40	0.098	6-40	4.577	5-15	3.305	6-29
222			min	-0.006	1	0.006	1	-0.477	5-11	-0.098	1	0.098	1	-3.305	6-29	-4.577	5-15
223		2	max	-0.006	6-40	0.003	6-40	0.078	5-29	0.011	6-40	-0.011	6-40	0.942	6-21	6.297	5-13
224			min	-0.006	1	0.003	1	-0.401	5-13	0.011	1	-0.011	1	-6.297	5-13	-0.942	6-21
225		3	max	-0.006	6-40	0	6-40	0.241	5-26	0.049	6-40	-0.049	6-40	0.638	6-40	7.957	5-26
226			min	-0.006	1	0	1	-0.226	5-16	0.049	1	-0.049	1	-7.957	5-26	-0.638	6-40
227		4	max	-0.006	6-40	-0.003	6-40	0.363	5-24	0.017	6-40	-0.017	6-40	0.455	6-5	5.338	5-18
228			min	-0.006	1	-0.003	1	-0.109	5-18	0.017	1	-0.017	1	-5.338	5-18	-0.455	6-5
229		5	max	-0.006	6-40	-0.006	6-40	0.489	5-20	-0.087	6-40	0.087	6-40	4.278	5-25	2.677	6-24
230			min	-0.006	1	-0.006	1	-0.034	6-19	-0.087	1	0.087	1	-2.677	6-24	-4.278	5-25
231	M24	1	max	-0.006	6-40	0.006	6-40	0.034	6-39	-0.087	6-40	0.087	6-40	4.278	5-5	2.677	6-4
232			min	-0.006	1	0.006	1	-0.489	5-40	-0.087	1	0.087	1	-2.677	6-4	-4.278	5-5
233		2	max	-0.006	6-40	0.003	6-40	0.109	5-38	0.017	6-40	-0.017	6-40	0.455	6-25	5.338	5-38
234			min	-0.006	1	0.003	1	-0.363	5-4	0.017	1	-0.017	1	-5.338	5-38	-0.455	6-25
235		3	max	-0.006	6-40	0	6-40	0.226	5-36	0.049	6-40	-0.049	6-40	0.638	6-20	7.957	5-6
236			min	-0.006	1	0	1	-0.241	5-6	0.049	1	-0.049	1	-7.957	5-6	-0.638	6-20
237		4	max	-0.006	6-40	-0.003	6-40	0.401	5-33	0.011	6-40	-0.011	6-40	0.942	6-1	6.297	5-33
238			min	-0.006	1	-0.003	1	-0.078	5-9	0.011	1	-0.011	1	-6.297	5-33	-0.942	6-1
239		5	max	-0.006	6-40	-0.006	6-40	0.477	5-31	-0.098	6-40	0.098	6-40	4.577	5-35	3.305	6-9
240			min	-0.006	1	-0.006	1	-0.037	6-10	-0.098	1	0.098	1	-3.305	6-9	-4.577	5-35
241	M25	1	max	-0.01	6-40	0.007	6-40	0.024	6-3	-0.134	6-40	0.134	6-40	5.56	5-28	3.015	6-29
242			min	-0.01	1	0.007	1	-0.491	5-32	-0.134	1	0.134	1	-3.015	6-29	-5.56	5-28
243		2	max	-0.01	6-40	0.003	6-40	0.096	5-30	0.021	6-40	-0.021	6-40	0.356	6-21	6.873	5-4
244			min	-0.01	1	0.003	1	-0.402	5-4	0.021	1	-0.021	1	-6.873	5-4	-0.356	6-21
245		3	max	-0.01	6-40	0	6-40	0.247	5-27	0.073	6-40	-0.073	6-40	0	6-40	9.695	5-7
246			min	-0.01	1	0	1	-0.247	5-7	0.073	1	-0.073	1	-9.695	5-7	0	1
247		4	max	-0.01	6-40	-0.003	6-40	0.402	5-24	0.021	6-40	-0.021	6-40	0.356	6-1	6.873	5-24
248			min	-0.01	1	-0.003	1	-0.096	5-10	0.021	1	-0.021	1	-6.873	5-24	-0.356	6-1
249		5	max	-0.01	6-40	-0.007	6-40	0.491	5-12	-0.134	6-40	0.134	6-40	5.56	5-8	3.015	6-9
250			min	-0.01	1	-0.007	1	-0.024	6-23	-0.134	1	0.134	1	-3.015	6-9	-5.56	5-8
251	M26	1	max	0	6-40	0.006	6-40	0.024	4-27	-0.091	6-40	0.091	6-40	4.849	4-37	1.379	6-37
252			min	0	1	0.006	1	-0.506	4-40	-0.091	1	0.091	1	-1.379	6-37	-4.849	4-37
253		2	max	0	6-40	0.003	6-40	0.1	4-38	0.014	6-40	-0.014	6-40	0.139	6-25	4.876	4-38
254			min	0	1	0.003	1	-0.368	4-4	0.014	1	-0.014	1	-4.876	4-38	-0.139	6-25
255		3	max	0	6-40	0	6-40	0.227	4-36	0.048	6-40	-0.048	6-40	0.692	4-27	7.315	4-6
256			min	0	1	0	1	-0.235	4-6	0.048	1	-0.048	1	-7.315	4-6	-0.692	4-27
257		4	max	0	6-40	-0.003	6-40	0.417	4-33	0.011	6-40	-0.011	6-40	1.276	4-27	5.137	4-33
258			min	0	1	-0.003	1	-0.059	4-9	0.011	1	-0.011	1	-5.137	4-33	-1.276	4-27

Envelope Member Section Stresses (Continued)

	Member	Sec		Axial[ksi]	LC	y Shear[ksi]	LC	z Shear[ksi]	LC	y-Top[ksi]	LC	y-Bot[ksi]	LC	z-Top[ksi]	LC	z-Bot[ksi]	LC
259		5	max	0	6-40	-0.006	6-40	0.5	4-31	-0.096	6-40	0.096	6-40	5.748	4-7	1.237	6-9
260			min	0	1	-0.006	1	-0.01	6-32	-0.096	1	0.096	1	-1.237	6-9	-5.748	4-7
261	M27	1	max	0	6-40	0.006	6-40	0.01	6-12	-0.096	6-40	0.096	6-40	5.748	4-27	1.237	6-29
262			min	0	1	0.006	1	-0.5	4-11	-0.096	1	0.096	1	-1.237	6-29	-5.748	4-27
263		2	max	0	6-40	0.003	6-40	0.059	4-29	0.011	6-40	-0.011	6-40	1.276	4-7	5.137	4-13
264			min	0	1	0.003	1	-0.417	4-13	0.011	1	-0.011	1	-5.137	4-13	-1.276	4-7
265		3	max	0	6-40	0	6-40	0.235	4-26	0.048	6-40	-0.048	6-40	0.692	4-7	7.315	4-26
266			min	0	1	0	1	-0.227	4-16	0.048	1	-0.048	1	-7.315	4-26	-0.692	4-7
267		4	max	0	6-40	-0.003	6-40	0.368	4-24	0.014	6-40	-0.014	6-40	0.139	6-5	4.876	4-18
268			min	0	1	-0.003	1	-0.1	4-18	0.014	1	-0.014	1	-4.876	4-18	-0.139	6-5
269		5	max	0	6-40	-0.006	6-40	0.506	4-20	-0.091	6-40	0.091	6-40	4.849	4-17	1.379	6-17
270			min	0	1	-0.006	1	-0.024	4-7	-0.091	1	0.091	1	-1.379	6-17	-4.849	4-17
271	M28	1	max	-0.001	6-40	0.007	6-40	0.009	6-30	-0.136	6-40	0.136	6-40	6.358	4-5	1.582	6-5
272			min	-0.001	1	0.007	1	-0.5	4-32	-0.136	1	0.136	1	-1.582	6-5	-6.358	4-5
273		2	max	-0.001	6-40	0.003	6-40	0.09	4-30	0.019	6-40	-0.019	6-40	0.059	4-21	6.207	4-4
274			min	-0.001	1	0.003	1	-0.408	4-4	0.019	1	-0.019	1	-6.207	4-4	-0.059	4-21
275		3	max	-0.001	6-40	0	6-40	0.247	4-27	0.071	6-40	-0.071	6-40	0	6-40	9.062	4-7
276			min	-0.001	1	0	1	-0.247	4-7	0.071	1	-0.071	1	-9.062	4-7	0	1
277		4	max	-0.001	6-40	-0.003	6-40	0.408	4-24	0.019	6-40	-0.019	6-40	0.059	4-1	6.207	4-24
278			min	-0.001	1	-0.003	1	-0.09	4-10	0.019	1	-0.019	1	-6.207	4-24	-0.059	4-1
279		5	max	-0.001	6-40	-0.007	6-40	0.5	4-12	-0.136	6-40	0.136	6-40	6.358	4-25	1.582	6-25
280			min	-0.001	1	-0.007	1	-0.009	6-10	-0.136	1	0.136	1	-1.582	6-25	-6.358	4-25

Envelope AA ADM1-20: ASD - BUILDING Member Aluminum Code Checks

	Member	Shape	Code Check	Loc[ft]	LC	Shear Check	Loc[ft]	Dir	LC	Pnc/Om[lb]	Pnt/Om[lb]	Mny/Om[lb-ft]	Mnz/Om[lb-ft]	Vny/Om[lb]	Vnz/Om[lb]	Cb	Eqn
1	M1	RT1.5X1.5X.1875	0.745	3.5	6-21	0.191	0.474	z	6-25	8409.157	19226.519	680.827	680.827	4331.52	4331.52	3	H.1-1
2	M2	RT1.5X1.5X0.156	0.023	4.8	6-21	0.035	4.8	z	6-21	3960.539	16343.04	603.094	603.094	3962.88	3962.88	2.341	H.1-1
3	M3	1.500ODX0.188	0.708	2.3	6-26	0.292	4.8		6-20	2631.238	7515.152	238.032	238.032	2254.545	2254.545	1	H.3-4
4	M4	1.500ODX0.188	0.709	2.5	6-6	0.292	0		6-40	2631.238	7515.152	238.032	238.032	2254.545	2254.545	1	H.3-4
5	M5	RT1.5X1.5X.1875	0.745	0	6-1	0.191	3.5	z	6-5	8409.157	19226.519	680.827	680.827	4331.52	4331.52	3	H.1-1
6	M6	RT1.5X1.5X.1875	0.554	3.5	6-31	0.207	0.474	z	6-7	8409.157	19226.519	680.827	680.827	4331.52	4331.52	1	H.1-1
7	M7	RT1.5X1.5X0.156	0.023	0	6-1	0.035	4.8	z	6-1	3960.539	16343.04	603.094	603.094	3962.88	3962.88	2.341	H.1-1
8	M8	1.500ODX0.188	0.719	2.5	6-6	0.283	0		6-40	2631.238	7515.152	238.032	238.032	2254.545	2254.545	1	H.3-4
9	M9	1.500ODX0.188	0.718	2.7	6-16	0.283	4.8		6-20	2631.238	7515.152	238.032	238.032	2254.545	2254.545	1	H.3-4
10	M10	RT1.5X1.5X0.156	0.025	4.8	4-17	0.033	4.8	z	6-21	3960.539	16343.04	603.094	603.094	3962.88	3962.88	2.346	H.1-1
11	M11	RT1.5X1.5X.1875	0.518	3	6-11	0.171	1.5	z	6-35	11445.797	19226.519	680.827	680.827	4331.52	4331.52	1	H.1-1
12	M12	RT1.5X1.5X0.156	0.025	0	4-37	0.033	4.8	z	6-1	3960.539	16343.04	603.094	603.094	3962.88	3962.88	2.346	H.1-1
13	M13	RT1.5X1.5X.1875	0.665	0	6-1	0.18	1.5	z	4-5	11445.797	19226.519	680.827	680.827	4331.52	4331.52	1.987	H.1-1
14	M14	RT1.5X1.5X.1875	0.665	3	6-21	0.18	2.656	z	4-25	11445.797	19226.519	680.827	680.827	4331.52	4331.52	1.987	H.1-1
15	M15	RT1.5X1.5X0.156	0.021	5.8	6-21	0.034	5.8	z	6-21	2712.569	16343.04	603.094	603.094	3962.88	3962.88	2.165	H.1-1
16	M16	RT1.5X1.5X.1875	0.812	3.5	6-21	0.253	0.474	z	6-8	8409.157	19226.519	680.827	680.827	4331.52	4331.52	3	H.1-1
17	M17	1.500ODX0.188	0.848	3.021	6-7	0.267	5.8		6-12	1802.132	7515.152	235.524	235.524	2254.545	2254.545	1	H.3-4
18	M18	RT1.5X1.5X.1875	0.812	3.5	6-1	0.253	0.474	z	6-28	8409.157	19226.519	680.827	680.827	4331.52	4331.52	3	H.1-1
19	M19	RT1.5X1.5X0.156	0.027	5.8	4-9	0.03	5.8	y	6-1	2712.569	16343.04	603.094	603.094	3962.88	3962.88	2.213	H.1-1
20	M20	RT1.5X1.5X.1875	0.71	3	6-21	0.242	2.656	z	4-8	11445.797	19226.519	680.827	680.827	4331.52	4331.52	2.023	H.1-1
21	M21	1.500ODX0.188	0.877	2.779	6-27	0.257	0		6-32	1802.132	7515.152	235.524	235.524	2254.545	2254.545	1	H.3-4
22	M22	RT1.5X1.5X.1875	0.71	3	6-1	0.242	2.656	z	4-28	11445.797	19226.519	680.827	680.827	4331.52	4331.52	2.023	H.1-1
23	M23	1.500ODX0.188	0.678	2.3	5-26	0.244	4.8		5-20	2631.238	7515.152	238.032	238.032	2254.545	2254.545	1	H.3-4
24	M24	1.500ODX0.188	0.679	2.5	5-6	0.244	0		5-40	2631.238	7515.152	238.032	238.032	2254.545	2254.545	1	H.3-4
25	M25	1.500ODX0.188	0.818	2.779	5-27	0.227	5.8		5-12	1802.132	7515.152	235.524	235.524	2254.545	2254.545	1	H.3-4
26	M26	1.500ODX0.188	0.625	2.5	4-6	0.173	4.8		6-1	2631.238	7515.152	238.032	238.032	2254.545	2254.545	1	H.3-4
27	M27	1.500ODX0.188	0.624	2.3	4-26	0.173	0		6-21	2631.238	7515.152	238.032	238.032	2254.545	2254.545	1	H.3-4
28	M28	1.500ODX0.188	0.766	2.779	4-27	0.158	5.8		6-1	1802.132	7515.152	235.524	235.524	2254.545	2254.545	1	H.3-4

Member Suggested Designs

	Section Set/Member	Current Shape	Suggested Shape	Controlling Member	Controlling Criteria	Use Suggested?
1	Horiz Guard	RT1.5X1.5X0.156	RT1X1X0.065	M7	Strength	Yes
2	Post 1875 6061-T6	RT1.5X1.5X.1875	RT2X2X0.095	M18	Strength	Yes
3	Handrail	1.500ODX0.188	1.500ODX0.094	M21	Strength	Yes

GUARDRAIL POST DESIGN

VERIFICATION OF POST CAPACITIES

10/16/2024

	6061-T6	6061-T6	6063-T5	6063-T5	6061-T6	6061-T6	6063-T5	6063-T5	6061-T6W	6061-T6W	6063-T5W	6063-T5W	6061-T6W	6061-T6W	6063-T5W	6063-T5W
Ftu	38000	38000	22000	22000	38000	38000	22000	22000	24000	24000	17000	17000	24000	24000	17000	17000
Fty	35000	35000	16000	16000	35000	35000	16000	16000	15000	15000	8000	8000	15000	15000	8000	8000
Height	42	42	42	42	36	36	36	36	42	42	42	42	36	36	36	36
Load	200	250	200	250	200	250	200	250	200	250	200	250	200	250	200	250
Ma	8400	10500	8400	10500	7200	9000	7200	9000	8400	10500	8400	10500	7200	9000	7200	9000
Rupture																
Omega	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95	1.95
Zreq	0.431	0.539	0.745	0.931	0.369	0.462	0.638	0.798	0.683	0.853	0.964	1.204	0.585	0.731	0.826	1.032
Check	OK	NG	NG	NG	OK	OK	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG
Yeilding																
Omega	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65
Zreq'd	0.396	0.495	0.866	1.083	0.339	0.424	0.743	0.928	0.924	1.155	1.733	2.166	0.792	0.990	1.485	1.856
Check	OK	NG	NG	NG	OK	OK	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG
Sreq'd	0.264	0.330	0.578	0.722	0.226	0.283	0.495	0.619	0.616	0.770	1.155	1.444	0.528	0.660	0.990	1.238
Check	OK	OK	NG	NG	OK	OK	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG
Depth (d)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Width (b)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Thickness	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875	0.1875
d1	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125
b1	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125	1.125
Z	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488	0.488
S	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385	0.385
Mcap	9506	9506	4730	4730	9506	9506	4730	4730	4434	4434	2365	2365	4434	4434	2365	2365
Check	OK	NG	NG	NG	OK	OK	NG	NG	NG	NG	NG	NG	NG	NG	NG	NG
Unity	0.88	1.10	1.78	2.22	0.76	0.95	1.52	1.90	1.89	2.37	3.55	4.44	1.62	2.03	3.04	3.81