

CONTRACTOR, ENGINEER AND ARCHITECT NOTE

- I. STEEL ENCOUNTERERS IS NOT A CONTRACTOR NOR ERECTOR BUT IS A VALUE ADDED SUPPLIER THEREFORE WILL NOT BE RESPONSIBLE FOR NOR PARTICIPATE IN ANY UNLOADING, STORING, HOISTING OR ERECTION ON THE PROJECT.
- II. NOTE TO CONTRACTOR AND/OR ERECTOR: IT IS THE CONTRACTOR AND ERECTORS RESPONSIBILITY TO FAMILIARIZE YOUR SELF WITH THE RECOMMENDATION FOR HANDLING AND ERECTING STEEL JOISTS AND JOIST GIRDERS. ALSO REFER TO TECHNICAL DIGEST #9 - HANDLING AND ERECTION OF STEEL JOISTS AND JOIST GIRDERS PUBLISHED BY THE STEEL JOIST INSTITUTE. (843-626-1995)
- III. ERECTOR MUST SATISFY ITSELF THAT ALL MEMBERS ARE SUPPORTED, ANCHORED & STABLE PRIOR TO RELEASING HOISTING CABLES.
- IV. STEEL ENCOUNTERERS IS NOT AN ENGINEERING DESIGN FIRM AND THEREFORE DOES NOT DEVELOP LOAD REQUIREMENT OF MEMBERS. JOIST AND GIRDERS ARE DESIGNED PER THE LOAD & DEFLECTION CRITERIA SHOWN IN THE ENGINEER OF RECORDS CONTRACT DOCUMENTS. IT IS THE ENGINEER OF RECORD'S RESPONSIBILITY TO VERIFY THAT ALL LOADS ARE IN COMPLIANCE WITH IBC. SEE FRAMING PLAN NOTE #1 & #2 ON THIS SHEET FOR ADDITIONAL INFORMATION.
- V. ENGINEER & ARCHITECT OF RECORD THRU REVIEW OF STEEL ENCOUNTERERS DOCUMENTS ARE RESPONSIBLE TO VERIFY THAT COMPLETE DESIGN CRITERIA INFORMATION FROM STRUCTURAL DOCUMENTS IS REFLECTED PROPERLY ON THE JOIST AND GIRDER PLACEMENT PLANS.

GENERAL NOTES FOR JOISTS, JOIST GIRDERS AND BRIDGING

- A. CHECK ALL QUANTITIES, MARK NUMBERS AND CONDITION OF MATERIALS ON ARRIVAL. NOTE ON THE DELIVERY TICKET, SHORTAGES, DISCREPANCIES AND DAMAGED MATERIALS. STEEL ENCOUNTERERS INC. (SEI) WILL NOT BE LIABLE FOR ANY SHORTAGES OR DAMAGED MATERIALS NOT CLEARLY NOTED ON THE DELIVERED TICKET.
- B. WHEN UNLOADING MATERIAL ALWAYS HOOK CHAINS OR SLINGS TO TOP OR BOTTOM CHORDS AT PANEL POINTS ONLY. NEVER HOOK TO THE WEB MEMBERS. DO NOT JERK WHILE LIFTING OR DROP WHEN LANDING. WHEN UNLOADING BY HAND USE EXTREME CARE WHEN BREAKING BUNDLES, UNLOAD EACH JOIST SEPARATELY.
- C. STORE JOIST IN BUNDLES IN A VERTICAL POSITION ON WOOD BLOCKING PLACED AT PANEL POINTS. STORE JOISTS ON SIDES IF HEIGHT OF BUNDLE IS GREATER THAN TWICE ITS WIDTH. JOISTS FROM BROKEN BUNDLES SHOULD BE LAID FLAT ON BLOCKING TO PREVENT SAGGING OF JOISTS. CONTRACTOR AND/OR ERECTOR MUST COVER STORED JOISTS IN A MANNER THAT PROVIDES ADEQUATE VENTILATION TO PROTECT PRIMER COAT. REFER TO NOTE R THIS SHEET FOR DISCUSSION ON PRIMER COAT. ALL BRIDGING MARK NUMBERS MUST BE PROTECTED TO PREVENT DETERIORATION.
- D. ERECTION MUST BE DONE USING ONLY PLANS NOTED "FINAL PLANS FOR FIELD USE" AND EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF SJI AND OSHA REQUIREMENTS. REFER TO THE FINAL PLACEMENT DRAWING FOR THE TAGGED END LOCATION OF JOISTS AND JOIST GIRDERS, WITH PARTICULAR ATTENTION PAID TO BOLTED ERECTION STABILITY BRIDGING REQUIREMENTS.
- E. STEEL ENCOUNTERERS INC. MUST BE NOTIFIED AT ONCE IF JOISTS, JOIST GIRDERS OR ACCESSORIES CAN NOT BE ERECTED OR NOT ERECTED ACCORDING TO THE FINAL PLACEMENT PLANS. STEEL ENCOUNTERERS INC. WILL NOT BE RESPONSIBLE FOR ANY FIELD REPAIRS OR CHANGES MADE WITHOUT PRIOR WRITTEN CONSENT FROM STEEL ENCOUNTERERS INC. STEEL ENCOUNTERERS NOR ITS JOIST SUPPLIERS WILL NOT ACCEPT ANY MODIFICATIONS TO OUR PRODUCTS WITHOUT THE PRIOR APPROVAL OF THE PROJECT STRUCTURAL ENGINEER OF RECORD NOR WILL WE ACCEPT ANY MODIFICATIONS WITHOUT OUR PRIOR APPROVAL.
- F. JOISTS ARE FABRICATED TO MEET THE ERECTION REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) 29 CFR SUBPART R-STEEL ERECTION, EXCEPT AS NOTED BELOW. FIELD COMPLIANCE WITH THIS ACT IS NECESSARY.

JOIST AT OR NEAR COLUMNS. (OSHA COLUMN JOISTS)
 STEEL JOIST INSTITUTE SPONSORED RESEARCH HAS SHOWN THAT MANY FACTORS AFFECT THE STABILITY OF OSHA COLUMN JOISTS. LIMITATIONS EXIST REGARDING THE DESIGN OF THESE JOISTS (OSHA 1926.757(a)(3)) MAKING THEM UNSTABLE TO SAFELY SUPPORT AN EMPLOYEE WITHOUT THE NEED FOR ERECTION BRIDGING. THEREFORE, SJI, STEEL ENCOUNTERERS AND JOIST MANUFACTURERS ABSOLUTELY RECOMMEND THAT THE JOIST BRIDGING BE INSTALLED AND POSITIVELY ANCHORED PRIOR TO SUPPORTING LOADS OF ANY KIND INCLUDING MAN LOADS.

1. SJI, STEEL ENCOUNTERERS AND JOIST MANUFACTURERS RECOMMEND THAT NO ONE BE ALLOWED TO WALK ON UNBRIDGED JOISTS. UNDER NO CIRCUMSTANCES ARE DECK BUNDLES, OR OTHER MATERIAL BUNDLES OR ANY OTHER CONSTRUCTION OR LIVE LOADS OF ANY KIND, TO BE PLACED ON UNBRIDGED JOISTS.

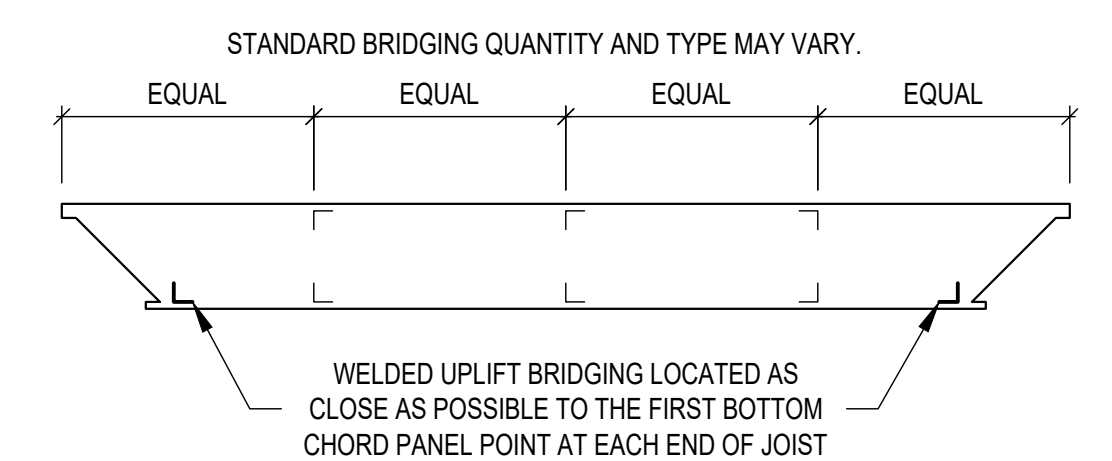
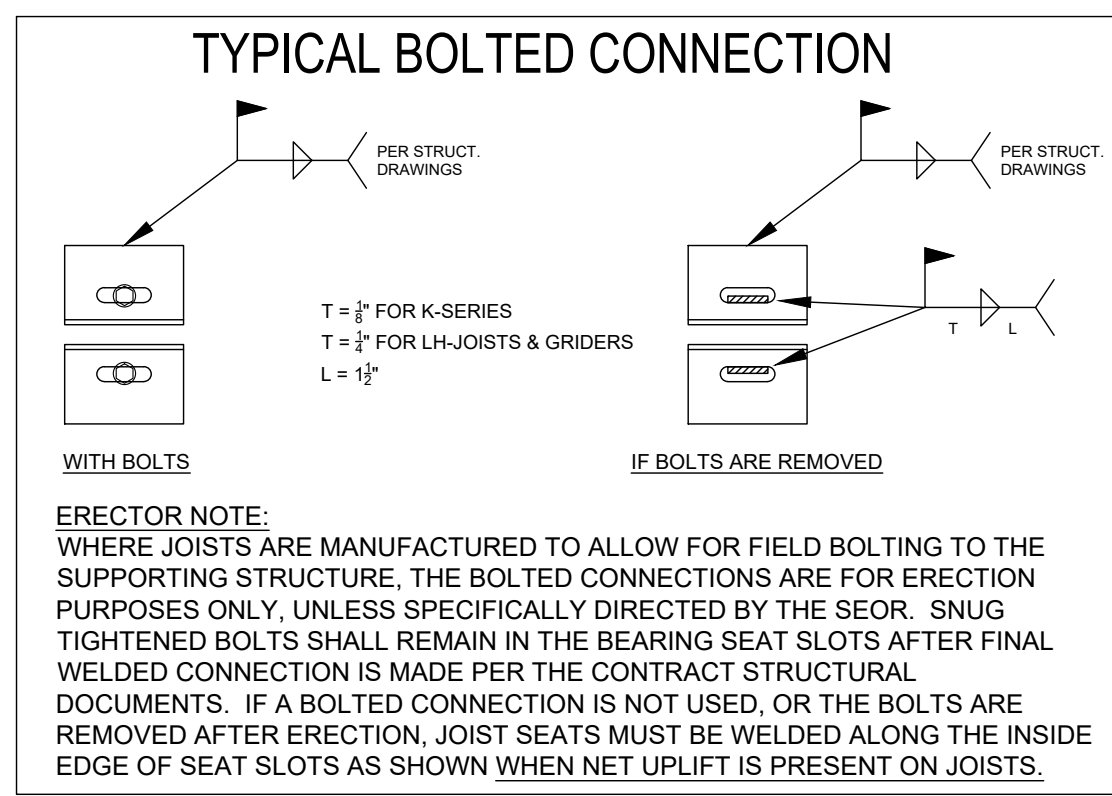
- G. DO NOT WELD JOIST OR JOIST GIRDER BOTTOM CHORD EXTENSIONS TO STABILIZER PLATES OR CLIP ANGLES UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL CONTRACT DRAWINGS, AND THEN WELD ONLY AFTER ALL DEAD LOADS ARE APPLIED, OR UNLESS SPECIFICALLY NOTED OTHERWISE BY STRUCTURAL DOCUMENTS.
- H. DO NOT CUT AWAY ANY CHORDS, WEBS OR ANY PORTION OR ANY JOIST OR JOIST GIRDER THEREOF. FIELD WELDING MUST NOT DAMAGE JOISTS OR GIRDERS. NO HOLES ARE PROVIDED IN JOIST OR JOIST GIRDERS FOR THE ATTACHMENT OF OTHER TRADES NOR ARE THEY DESIGNED FOR THEM. DO NOT DRILL OR CUT ANY HOLES IN ANY MEMBERS AT ANYTIME.
- J. METAL DECK MUST BE ATTACHED TO THE TOP CHORD OF THE JOIST AT A MINIMUM (OR MORE FREQUENTLY AS SHOWN ON THE STRUCTURAL DOCUMENTS) OF 36" ON CENTER TO PROVIDE THE SJI MINIMUM REQUIRED PERMANENT LATERAL BRACING FOR THE TOP CHORD. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATIONS OF DECK. DO NOT DAMAGE JOIST TOP CHORDS.
- K. ERECT BOTTOM CHORD BEARING JOISTS OR JOIST GIRDERS WITH CAMBER UPWARD. INSTALL ALL REQUIRED ERECTION STABILITY BRIDGING TO STABILIZE MEMBERS. ALSO, ATTACH BEARING ENDS TO SUPPORTS AND VERIFY JOIST STABILITY.
- L. STEEL JOISTS AND JOIST GIRDERS SHALL NOT BE USED AS ANCHORAGE POINTS FOR A FALL ARREST SYSTEM DURING ERECTION OR ANYTIME UNLESS SPECIFICALLY DESIGNED AS SUCH IN THE STRUCTURAL DOCUMENTS.

- M. JOIST GIRDERS:
 1. WHERE JOIST GIRDERS ARE SUPPLIED WITH SLOTS/HOLES IN THE BEARING SEATS, ALL ERECTION BOLTS AT EACH END SHALL BE INSTALLED AND TIGHTENED PER THE "AISC" SPECIFICATION. WHERE SLOTS ARE NOT SUPPLIED, JOIST GIRDER ENDS SHALL BE WELDED TO THE SUPPORTS.
 2. NO LOADS SHALL BE PLACED ON THE JOIST GIRDER UNTIL THE JOISTS BEARING ON THE JOIST GIRDER ARE IN PLACE AND WELDED OR BOLTED TO THE GIRDER.
 3. THE BOTTOM CHORD OF JOIST GIRDERS MUST BE RESTRAINED FROM LATERAL MOVEMENT TO HELP BRACE THE GIRDER DURING ERECTION, PER SJI. ONE METHOD SJI RECOMMENDS IS A POSITIVELY ANCHORED VERTICAL STABILIZER PLATE BETWEEN THE BOTTOM CHORD ANGLES. ERECTOR IS RESPONSIBLE FOR GIRDER RESTRAINT.
 4. AFTER COLUMNS ARE PLUMB WITH ERECTION BOLTS IN PLACE, FIELD WELD THE JOIST GIRDERS TO THE CAP PLATE AS SHOWN ON OUR PLACEMENT DRAWINGS AND IF NOT NOTED THEN A MINIMUM OF 1/4" FILLET WELDS 2 1/2" LONG AT EACH SIDE OF SEAT OR EQUAL. ERECTOR IS RESPONSIBLE TO REVIEW THE CONTRACT DRAWINGS TO DETERMINE WHETHER ADDITIONAL WELD IS REQUIRED.
 5. DO NOT WELD GIRDER BOTTOM CHORD BRACES (GB'S) TO THE BOTTOM CHORD OF JOISTS UNTIL ALL ROOF OR FLOOR DEAD LOADS ARE APPLIED. BOTTOM CHORD BRACES SHALL BE CONNECTED WITH A FILLET WELD OR THE EQUIVALENT. FILLET WELD SIZE SHALL NOT BE LESS THAN THE THICKNESS OF THE GB ANGLE. FOLLOW AISC SPECIFICATIONS FOR WELD REQUIREMENTS DISCUSSION ON MIN/MAX WELD SIZE. THE WELD LENGTH SHALL NOT BE LESS THAN THE LEG OF THE GB ANGLE.

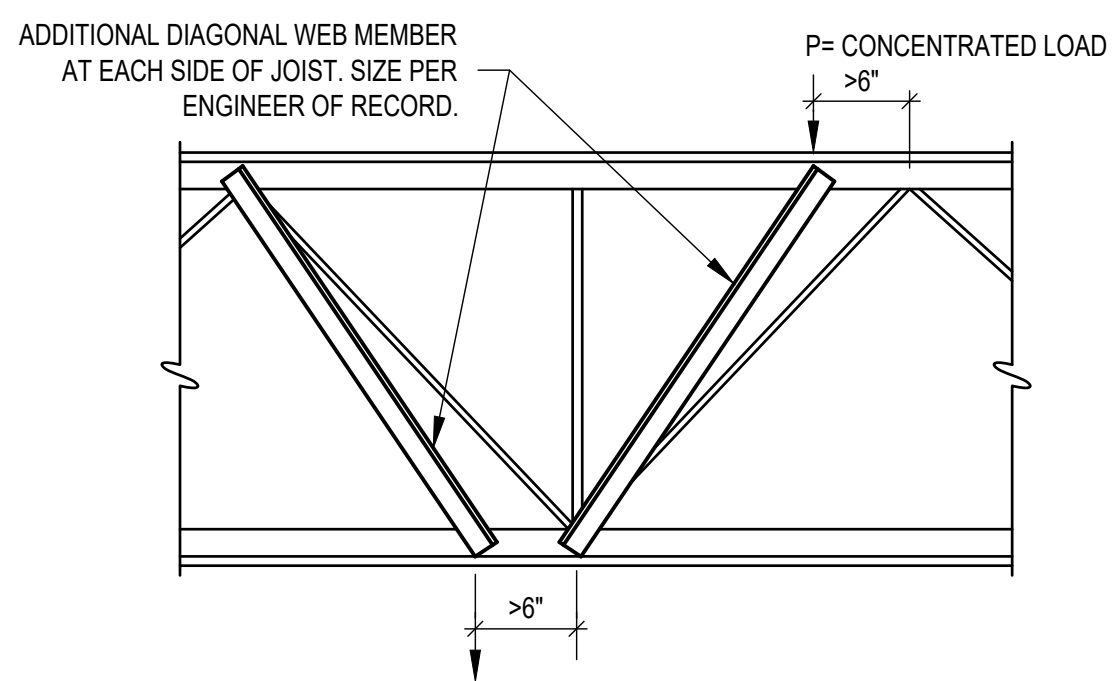
- N. JOISTS:
 1. DO NOT COMPLETELY WELD JOISTS TO BEARING SUPPORT UNTIL PROPERLY ALIGNED, HOWEVER AS SOON AS THE JOIST IS IN ITS FINAL POSITION, THE JOIST ENDS SHALL BE WELDED TO ITS SUPPORT AT A MINIMUM AS NOTED BELOW. ALIGN JOISTS WHILE INSTALLING BRIDGING. AFTER INSTALLATION OF ALL BRIDGING, COMPLETE THE ATTACHMENT OF JOISTS TO THE BEARING SUPPORT. DO NOT ATTEMPT TO ALIGN OR STRAIGHTEN GROUPS OF JOISTS AFTER INSTALLATION AND PERMANENT ATTACHMENT TO THE BEARING SUPPORTS HAS BEEN MADE.
 2. BOTH SIDES OF THE SEAT ON ONE END OF THE JOIST MUST BE ATTACHED TO THE SUPPORT AS THE JOISTS ARE POSITIONED.
 3. WHEN SLOTS OR HOLES ARE PROVIDED IN THE BEARING SEATS ON ONE END OR BOTH ENDS OF A JOIST, ALL BOLTS SHALL BE INSTALLED AND TIGHTENED PER THE "AISC" SPECIFICATION. WHERE CONSTRUCTIBILITY DOES NOT ALLOW FOR BOLTING, JOIST FINAL CONNECTIONS SHALL BE MADE BY WELDING OR AS SPECIFIED BY THE PROJECT STRUCTURAL ENGINEER OF RECORD.
 4. PER SJI JOIST STANDARDS ENDS SHALL BEAR ON STEEL STRUCTURAL MEMBERS OR BEARING PLATES AND SHALL BE ATTACHED THERETO WITH A MINIMUM OF:
 - K AND KCS SERIES JOISTS - TWO 1/8" FILLET WELDS 2 1/2" LONG OR EQUAL.
 - LH AND DLH SERIES JOISTS - TWO 1/4" FILLET WELDS 2 1/2" LONG OR EQUAL.
 - SLH 15-18 SERIES JOISTS - TWO 1/4" FILLET WELDS 2 1/2" LONG OR EQUAL.
 - SLH 19-25 SERIES JOISTS - TWO 1/4" FILLET WELDS 4" LONG OR EQUAL.
 HOWEVER THE CONTRACT DRAWINGS MUST BE REVIEWED TO DETERMINE WHETHER ANY MORE STRINGENT OR SPECIAL WELD IS REQUIRED BASED ON CONTRACT DOCUMENTS PREPARED BY ENGINEER OF RECORD.
 5. ALL THE NOTES HEREIN ARE NOT BASED ON A PANELIZED CONSTRUCTION METHOD. IF PANELIZED CONSTRUCTION IS UTILIZED, THE CONTRACTOR AND ERECTOR IS COMPLETELY RESPONSIBLE TO FOLLOW OSHA ERECTION REQUIREMENTS. THE JOIST AT EACH END OF THE PANEL MUST BE SECURED TO SUPPORTS.
 6. AT NO TIME SHALL ANYONE BE PERMITTED TO WALK ON A STEEL JOIST OR UNSECURED PANELIZED JOIST ASSEMBLY.
 7. WHERE JOISTS ARE LOCATED AT COLUMNS, THE EXTENDED ENDS OF THE BOTTOM CHORD MUST BE RESTRAINED FROM LATERAL MOVEMENT TO HELP BRACE THE JOIST FROM OVERTURNING DURING ERECTION. THIS IS USUALLY ACCOMPLISHED WITH A VERTICAL STIFFENER PLATE ATTACHED TO THE COLUMN OR BEAM, PER OSHA 1926.757 (a)(i). PLATE EXTENDS BETWEEN THE BOTTOM CHORD ANGLES.

GENERAL NOTES CONTINUE

- P. BRIDGING:
 - THE REQUIRED ROWS OF BRIDGING SHALL BE INSTALLED AND ANCHORED DURING JOIST ERECTION PER OSHA 1926.757 FIELD COMPLIANCE IS MANDATORY.
 - 1. CERTAIN DIAGONAL BRIDGING NOTED AS "ERECTION STABILITY BRIDGING" SHALL BE INSTALLED AND ANCHORED PRIOR TO SLACKENING THE HOISTING CABLES. PER THE LATEST STEEL JOIST INSTITUTE STANDARD SPECIFICATIONS. THE LOCATION(S) OF THE "ERECTION STABILITY BRIDGING" IS INDICATED AND LABELED AS SUCH ON THE STEEL ENCOUNTERERS PLACEMENT DRAWINGS. KNOW AND FOLLOW ALL OSHA REQUIREMENTS.
 - 2. JOIST SPANS UP TO 60 FEET:
 - WHEN THE JOIST SPAN IS LESS THAN THE ERECTION STABILITY SPAN AS SHOWN IN SJI SPECIFICATION SECTION 105 (TITLED ERECTION STABILITY AND HANDLING), ALL BRIDGING IS WELDED HORIZONTAL BRIDGING. WHEN THE JOIST SPAN IS GREATER THAN THE ERECTION STABILITY SPAN, A ROW OF BRIDGING NEAREST MID-SPAN OF THE JOIST SHALL BE "ERECTION STABILITY BRIDGING". ALL OTHER ROWS OF BRIDGING ARE WELDED HORIZONTAL BRIDGING.
 - 3. JOIST SPANS OVER 60 FEET UP TO 100 FEET:
 - ALL ROWS SHALL BE BOLTED DIAGONAL BRIDGING. THE TWO ROWS NEAREST THIRD POINTS OF THE JOIST SPAN SHALL BE BOLTED DIAGONAL "ERECTION STABILITY BRIDGING".
 - 4. JOIST SPANS OVER 100 FEET:
 - ALL ROWS SHALL BE BOLTED DIAGONAL BRIDGING. ALL ROWS SHALL BE BOLTED DIAGONAL "ERECTION STABILITY BRIDGING".
 - 5. ALL WELDED HORIZONTAL BRIDGING IS SHIPPED IN 20' 0" LENGTHS. LAP JOINTS IN BRIDGING SHALL BE 3" MINIMUM AND 6" MAXIMUM BRIDGING LAPS MAY OCCUR BETWEEN JOISTS. WELD JOINTS WITH 1/8" FILLET 1" LONG AT EACH LEG OF BRIDGING ANGLE. USE ALL DROPS 4'-0" AND LONGER.
 - 6. ALL WELDED HORIZONTAL BRIDGING SHALL BE ATTACHED TO EACH JOIST WITH A MINIMUM WELD AS FOLLOWS:
 - K AND KCS SERIES JOISTS - 1/8" FILLET WELD 1/2" LONG OR EQUAL.
 - LH SERIES SERIES JOISTS - 1/8" FILLET WELD 1" LONG OR EQUAL.
 - DLH SERIES SERIES JOISTS - 1/8" FILLET WELD 1 1/2" LONG OR EQUAL.
 WELD REQUIRED AT ONLY ONE CHORD ANGLE PER JOIST. DO NOT WELD BRIDGING TO WEB MEMBERS.
 - 7. THE WEIGHT OF A BUNDLE OF JOIST BRIDGING SHALL NOT EXCEED 1000 POUNDS. A BUNDLE OF JOIST BRIDGING SHALL BE PLACED ON A MINIMUM OF 3 JOISTS, AND SHALL BE PLACED WITHIN 1'-0" OF THE ANCHORED END OF THESE 3 JOISTS.
 - 8. ALL BOLTED CONNECTIONS FOR BRIDGING SHALL BE TIGHTENED PER THE "AISC" SPECIFICATION. ALL BOLTED DIAGONAL BRIDGING SHALL BE BOLTED AT THEIR POINT OF INTERSECTION.
 - 9. ALL BRIDGING SHALL BE EQUALLY SPACED RELATIVE TO THE SPAN OF THE JOISTS AT WHICH IT IS BEING INSTALLED, UNLESS SHOWN OTHERWISE ON PLACEMENT DRAWINGS. SEE NOTE(12).
 - 10. WHEN UPLIFT BRIDGING IS REQUIRED AT JOISTS, IT WILL BE SHOWN ON THE PLACEMENT DRAWINGS AND INDICATED IN THE FRAMING PLAN NOTES. SEE UPLIFT BRIDGING DIAGRAM. INSTALL UPLIFT BRIDGING AT BOTTOM CHORD ONLY AS CLOSE AS POSSIBLE OF THE FIRST BOTTOM CHORD PANEL POINT AT EACH END OF JOIST. SEE NOTE(12).
 - 11. WHEN PERMANENT BRIDGING TERMINUS POINTS CANNOT BE USED DURING ERECTION, ADDITIONAL TEMPORARY BRIDGING TERMINUS POINTS ARE REQUIRED TO PROVIDE STABILITY. WHERE ADDITIONAL BRIDGING TERMINUS POINTS ARE REQUIRED FOR STABILITY IN ACCORDANCE WITH OSHA 1926.757(c)(5), THE MATERIAL AND DESIGN OF THOSE POINTS IS NOT BY STEEL ENCOUNTERERS NOR THE JOIST MFR.
 - 12. STEEL ENCOUNTERERS DOES NOT SPECIFICALLY LOCATE BRIDGING NOR IS STEEL ENCOUNTERERS RESPONSIBLE TO VERIFY BRIDGING. IT IS THE CONTRACTOR AND ERECTORS RESPONSIBILITY TO VERIFY THAT BRIDGING LOCATIONS ARE NOT IN CONFLICT NOR INTERFERES WITH ACCESS TO EQUIPMENT, LADDERS, ROOF HATCHES, OPENINGS, CATWALKS OR ANY OTHER ELEMENT THAT INTERFERES WITH BRIDGING PLACEMENT. STEEL ENCOUNTERERS AND THE ENGINEER OF RECORD MUST BE CONTACTED IN WRITING TO COORDINATE AN APPROPRIATE BRIDGING LOCATION.
- Q. PLACEMENT DRAWINGS:
 - THE PLACEMENT DRAWING(S) AS ISSUED BY STEEL ENCOUNTERERS SHALL NOT BE USED AS NOR CONSIDERED TO BE A "SITE-SPECIFIC ERECTION PLAN" AS DEFINED BY OSHA SUBPART R-STEEL ERECTION SUB-SECTION 1926.752 (e). STEEL ENCOUNTERERS PLACEMENT DRAWING IS ONLY FOR JOIST AND GIRDER LOCATION AND END CONDITIONS.
- R. JOIST, JOIST GIRDERS AND ACCESSORIES ARE FURNISHED WITH ONE DIP COAT OF GRAY PRIMER. IT IS NOT OF ARCHITECTURAL QUALITY NOR IS IT INTENDED TO BE A PERMANENT FINISH COAT. THE COATING MAY NOT BE UNIFORM AND MAY INCLUDE DRIPS, RUNS AND SAGS. DIESEL SMOKE DAMAGE, BANDING & DUNNAGE MARKS, CRACKS, PEELING AND OTHER IMPERFECTIONS SHOULD BE EXPECTED. REPAIR OF SUCH DAMAGE IS NOT THE RESPONSIBILITY OF STEEL ENCOUNTERERS INC.



TOP CHORD LENGTH	APPROXIMATE CAMBER
20'-0"	1/4" (6 mm)
30'-0"	3/8" (10 mm)
40'-0"	5/8" (16 mm)
50'-0"	1" (25 mm)
60'-0"	1 1/2" (38 mm)
70'-0"	2" (51 mm)
80'-0"	2 3/4" (70 mm)
90'-0"	3 1/2" (89 mm)
100'-0"	4 1/4" (108 mm)



NOTE:
 WHEN CONCENTRATED LOADS ON JOISTS ARE LOCATED MORE THAN 6 INCHES FROM THE PANEL POINTS. ADDITIONAL WEB MEMBERS (ONE ON EACH SIDE OF JOIST) SHALL BE FIELD WELDED FROM THE POINT OF LOAD TO THE NEAREST PANEL POINT ON THE OPPOSITE CHORD AT NO COST TO JOIST SUPPLIER.

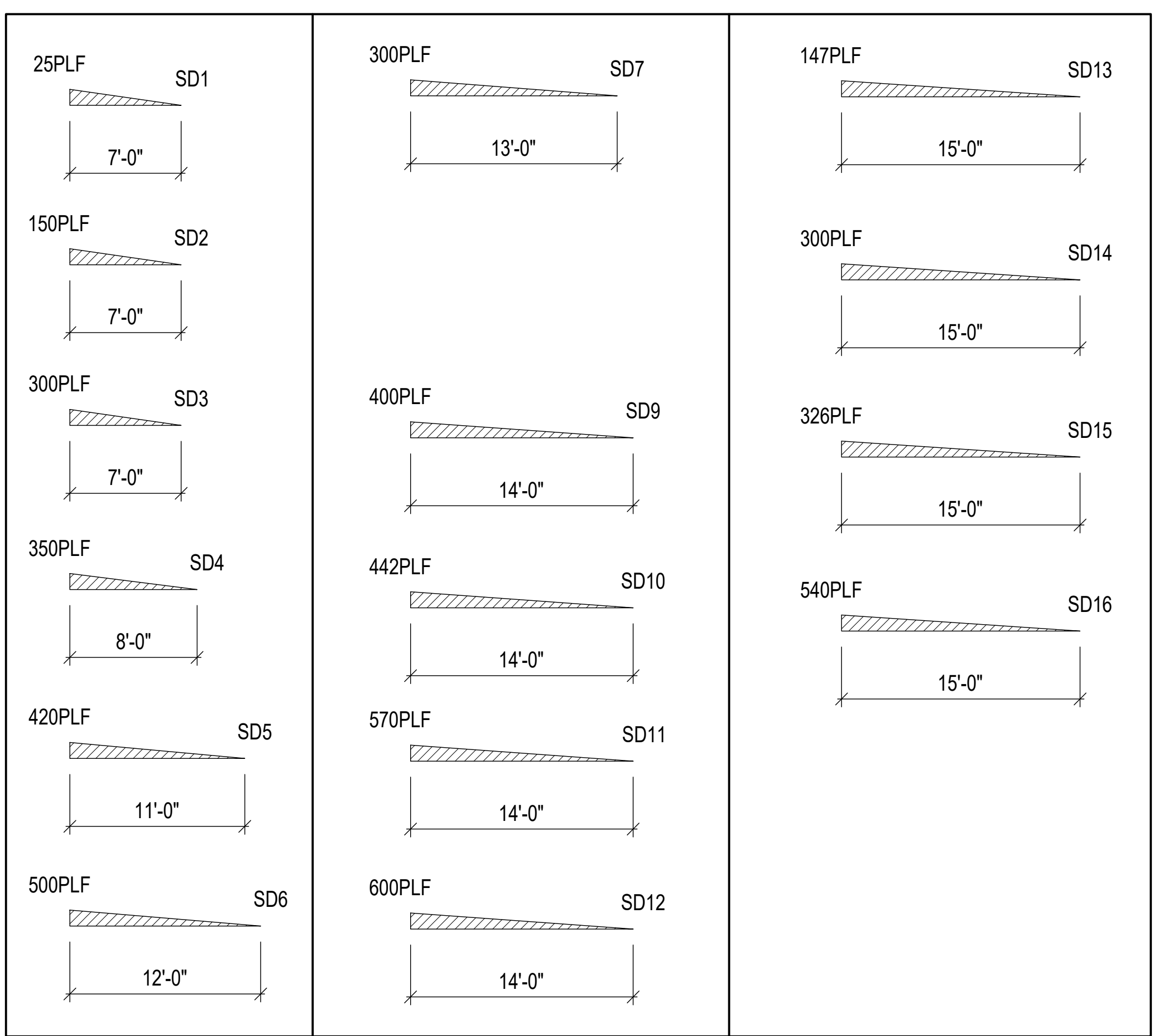
2018 INTERNATIONAL BUILDING CODE SECTION 2207 - STEEL JOISTS

2207.2 DESIGN. THE REGISTERED DESIGN PROFESSIONAL SHALL INDICATE ON THE CONSTRUCTION DOCUMENTS THE STEEL JOIST AND/OR STEEL JOIST GIRDER DESIGNATIONS FROM THE SPECIFICATIONS LISTED IN SECTION 2207.1 AND SHALL INDICATE THE REQUIREMENTS FOR JOIST AND JOIST GIRDER DESIGN, LAYOUT, END SUPPORTS, ANCHORAGE, NON-SJI STANDARD BRIDGING, BRIDGING TERMINATION CONNECTIONS AND BEARING CONNECTION DESIGN TO RESIST UPLIFT AND LATERAL LOADS. THESE DOCUMENTS SHALL INDICATE SPECIAL REQUIREMENTS AS FOLLOWS:

1. SPECIAL LOADS INCLUDING:
 - 1.1 CONCENTRATED LOADS;
 - 1.2 NONUNIFORM LOADS,
 - 1.3 NET UPLIFT LOADS;
 - 1.4 AXIAL LOADS;
 - 1.5 END MOMENTS; AND
 - 1.6 CONNECTION FORCES.
2. SPECIAL CONSIDERATION INCLUDING:
 - 2.1 PROFILES FOR NONSTANDARD JOIST AND JOIST GIRDER CONFIGURATIONS (STANDARD JOIST AND JOIST GIRDER CONFIGURATIONS ARE AS INDICATED IN THE SJI CATALOGUE);
 - 2.2 OVERSIZED OR OTHER NONSTANDARD WEB OPENINGS; AND
 - 2.3 EXTENDED ENDS.
3. DEFLECTION CRITERIA FOR LIVE AND TOTAL LOADS FOR NON SJI STANDARD JOISTS.

FRAMING PLAN NOTES

1. JOIST SHOWN ON THESE PLACEMENT PLANS ARE DESIGNED PER THE LOADS & DEFLECTION CRITERIA SHOWN ON SHEET S0.01 OF THE ENGINEER OF RECORD'S CONTRACT DOCUMENTS.
2. DESIGN TO COMPLY WITH STEEL JOIST INSTITUTE (SJI) 45th EDITION & INTERNATIONAL BUILDING CODE (IBC).
3. JOIST CHORDS ARE NOT DESIGNED FOR CONCENTRATED LOADS BETWEEN PANEL POINTS. IF POINT LOADS ARE NOT SPECIFICALLY INDICATED ON THE PLAN, THEN PLACE THE LOADS AT PANEL POINTS OR FIELD WELD AN EXTRA MEMBER FROM POINT LOAD TO NEAREST PANEL POINT ON OPPOSITE CHORD AT NO EXPENSE TO JOIST SUPPLIER. SEE SECTION AA ON THIS SHEET. E.O.R. AND STEEL ENCOUNTERERS MUST BE MADE AWARE IN WRITING OF SUCH CONDITIONS.
4. CONTRACTOR NOTE AND COORDINATE: JOIST SUPPORTING MECHANICAL UNITS ARE DESIGNED WITH ADLOAD (ADD LOAD) CAPACITY SHOWN. ONLY PLACE MECHANICAL UNITS ON JOISTS WITH ADLOADS. NOTE #3 ABOVE IS APPLICABLE.
5. JOIST DESIGN SHALL BE ACCORDING TO ASD.
6. JOIST LIVE LOAD DEFLECTION IS LIMITED TO L/180.
7. JOISTS TO BE DESIGNED FOR A NET UPLIFT LOAD OF 490PLF. (49 PSF)
8. (#*#) INDICATES THE AXIAL LOAD, TENSION OR COMPRESSION, WHICH THE TOP CHORD OF THE JOIST OR GIRDER IS TO BE DESIGNED FOR AT RESPECTIVE END.
9. ALL JOISTS WILL BE DESIGNED WITH SJI STANDARD CAMBER UNLESS NOTED OTHERWISE ON PLANS. SEE TABLE BELOW.
10. CONTRACTOR & ERECTOR SHALL COORDINATE JOIST AND BRIDGING LOCATIONS TO AVOID CONFLICTS/INTERFERENCE WITH ALL OTHER MATERIALS, HATCHES, OPENINGS, ECT. & OTHER TRADES WORK.
11. HORIZONTAL BRIDGING TO BE AS NOTED ON PLAN. SHIPPED IN 20'-0" LENGTHS AND FIELD CUT AS REQUIRED. SEE GENERAL NOTE P. ON THIS SHEET FOR MORE INFORMATION. ROWS OF BRIDGING INDICATED THIS (- - - - -) ON PLACEMENT PLAN.
12. PROVIDE ONE ROW HORIZONTAL UPLIFT BRIDGING AT EACH END OF EACH JOIST. LOCATE AT FIRST BOTTOM CHORD PANEL POINT ONLY. SEE BRIDGING DIAGRAM ON THIS SHEET. ROWS OF BRIDGING INDICATED THIS (- - - - -).
13. WHEN SKYLIGHTS OR MECHANICAL DUCTS REQUIRE REMOVAL OF THE CONTINUOUS HORIZONTAL BRIDGING AT ONE JOIST SPACE, WELDED CROSS BRIDGING SHALL BE ADDED TO EACH ADJACENT JOIST SPACE. HORIZONTAL BRIDGING SHALL REMAIN AT ADJACENT JOIST SPACES.
14. WELDED DIAGONAL BRIDGING AS SHOWN ON PLAN- MARK-W. FIELD WELDED, SEE PLACEMENT PLAN FOR MARK. ROWS OF BRIDGING INDICATED THIS (<====>).
15. BOLTED DIAGONAL & ERECTION STABILITY BRIDGING AS SHOWN ON PLAN- MARK-B. PLACE BOLTED HORIZONTAL BRIDGING AT SPACES ADJACENT TO WALLS, MK-HB. SEE PLAN FOR MARK. ROWS OF BRIDGING INDICATED THIS (<====>).
16. WHEN SKYLIGHTS OR MECHANICAL DUCTS INTERFERE WITH THE BOLTED DIAGONAL BRIDGING AT ONE JOIST SPACE, IT MAY BE REMOVED ONLY AFTER ROOF DECK IS IN PLACE AND BOTH OF THE ADJACENT JOIST SPACES HAVE BOLTED OR WELDED DIAGONAL BRIDGING. ALL REQUIRED "ERECTION STABILITY BRIDGING" SHALL BE INSTALLED AS THE JOISTS ARE BEING ERECTED, PER OSHA REQUIREMENTS.
17. * INDICATES COLUMN STABILIZATION JOIST. HOISTING CABLES SHALL NOT BE RELEASED UNTIL BOTH BEARING SEATS OF THIS JOIST ARE FIELD BOLTED AT A STEEL BEAM OR JOIST GIRDER, OR FIELD WELDED AT A WALL BEARING PLATE. WHERE EITHER END OF THIS JOIST BEARS DIRECTLY AT A COLUMN, THE BOTTOM CHORD SHALL BE RESTRAINED BY A COLUMN STABILIZER PLATE.
18. ●● INDICATES FIELD BOLTING OF JOIST AT ERECTION. EXCEPT WHERE JOIST ARE PRE-ASSEMBLED INTO PANELS, ALL JOIST SPANNING 40'-0" OR GREATER BEARING ON STEEL BEAMS OR JOIST GIRDERS, SHALL BE FABRICATED TO ALLOW FOR FIELD BOLTING DURING ERECTION. THE FINAL CONNECTION OF THE JOIST TO STEEL STRUCTURE SHALL BE MADE BY FIELD WELDING. STEEL JOISTS THAT HAVE BEEN PRE-ASSEMBLED INTO PANELS WITH BRIDGING SHALL BE ATTACHED TO THE STRUCTURE AT EACH CORNER BEFORE THE HOISTING CABLES ARE RELEASED.
19. SPECTRAL RESPONSE COEFFICIENT, SDS = 1.022
20. JOISTS TO HAVE AN ADDITIONAL SNOW DRIFT LOAD AS PER THE FOLLOWING DIAGRAMS: (SEE PLANS FOR LOCATIONS)



City of Puyallup
 Building Development & Permitting Services
ISSUED PERMIT

Building Planning
 Engineering Public Works
 Fire Traffic

The approved construction plans, documents, and all engineering must be posted on the job at all inspections in a visible and readily accessible location.

Full sized legible color plans are required to be provided by the permittee on site for inspection.

Approval of submitted plans is not an approval of omissions or oversights by this office or non compliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

City of Puyallup
 Building REVIEWED FOR COMPLIANCE
 B.Snowden
 11/14/2024
 2:56:56 PM



J1
 GENERAL NOTES

PRCNC20240216 - Revision 2 (Brace Frame)

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 INTERNATIONAL STRUCTURAL DIVISION
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 SUITE 200, COMMERCE WASH STATE 99001
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 WWW.STEELENCOUNTERERS.COM
 email@steelencounters.com

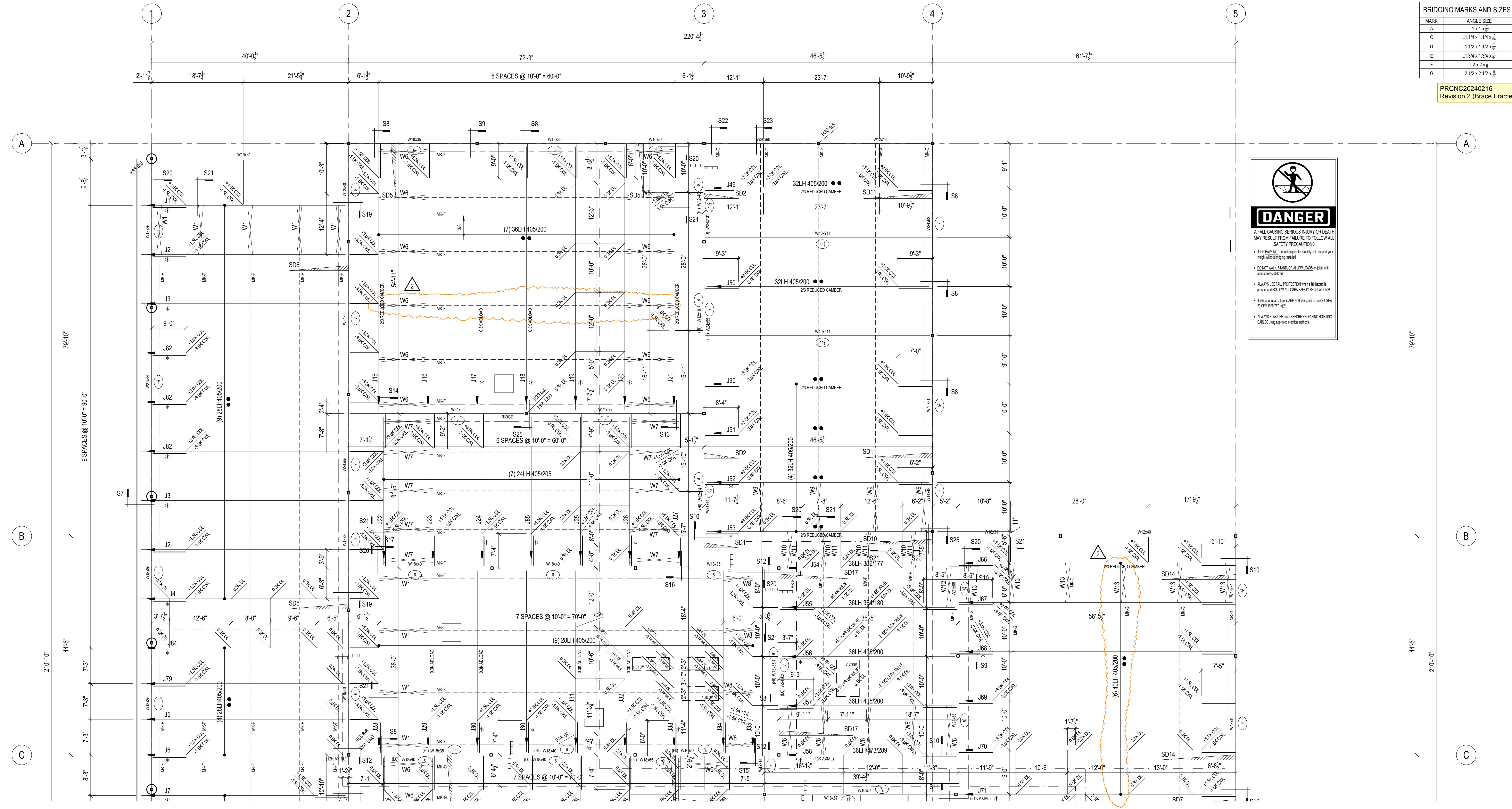
PSE TRAINING CENTER PUYALLUP
 PUYALLUP, WA
 PENNON CONSTRUCTION COMPANY INC.
 BELJOB No: 43423

FINAL PLANS FOR FIELD USE
 NOTE TO CONTRACTOR AND ERECTOR: RESPONSIBILITY FOR FIELD MODIFICATIONS OR ADDITIONAL MATERIAL WILL NOT BE ACCEPTED UNLESS PREVIOUSLY AUTHORIZED BY STEEL ENCOUNTERERS.

NO.	DATE	DESCRIPTION
0	08/02/2024	FROM APPROVAL/RELEASED FOR FABRICATION/FINALS
1	07/09/2024	FOR RESUBMITTAL
2	08/01/2024	APPROVAL DRAWINGS

DESIGNED BY: MARCOS MARTINEZ
 04/24/2024

CREATED BY: BY
 08/2024



BRIDGING MARKS AND SIZES	
MARK	ANGLE SIZE
A	L1 x 1 x 1/8
C	L1.1/2 x 1.1/2 x 5/16
D	L1.1/2 x 1.1/2 x 3/8
E	L1.3/4 x 1.3/4 x 3/8
F	L2 x 2 x 1/2
G	L2.1/2 x 2.1/2 x 3/8

PRCNC20240216 -
Revision 2 (Brace Frame)

DANGER

A FALL CAUSING SERIOUS INJURY OR DEATH MAY RESULT FROM FAILURE TO FOLLOW ALL SAFETY PRECAUTIONS

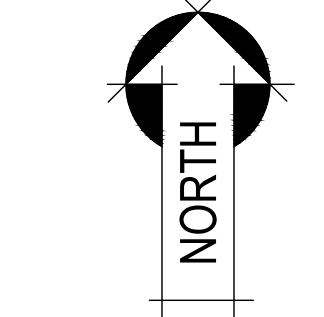
- JOISTS HAVE NOT BEEN DESIGNED FOR STABILITY OR TO SUPPORT ANY WEIGHT WITHOUT BRACING.
- DO NOT WALK, STAND OR ALLOW LOADS ON JOISTS WITH BRACING INSTALLED.
- ALWAYS USE FALL PROTECTION WHEN NOT TIED TO A SURFACE AND FOLLOW ALL OSHA SAFETY REGULATIONS.
- JOISTS AT OR NEAR COLUMNS ARE NOT DESIGNED TO SUPPORT OSHA 2X OR 10X 70' JOISTS.
- ALWAYS STABILIZE JOISTS BEFORE RELEASING HOISTING CABLES using erection methods.

ROOF FRAMING PLAN- NORTH

REF: S2.04

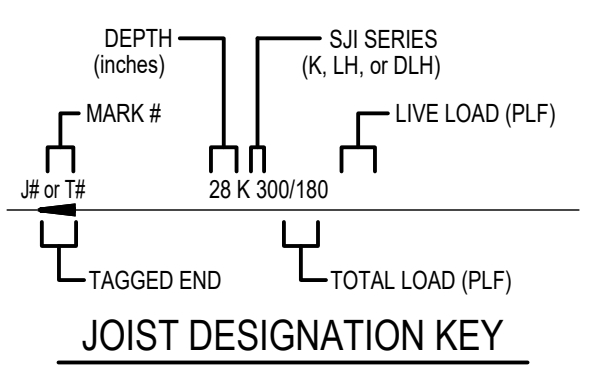
ROOF FRAMING NOTES

1. COLOR CODE: RED.
2. SEE SHEET J2 FOR GENERAL NOTES & ADDITIONAL FRAMING NOTES.
3. SEE SHEET J4 & J5 FOR FRAMING SECTIONS.
4. HORIZONTAL BRIDGING TO BE: L2 x 2 x 1/8 MARK-F, OR TO BE: L2.1/2 x 2.1/2 x 5/32 MARK-G. SEE NOTE #10 AND GENERAL NOTES "P" ON SHEET J1 FOR MORE INFORMATION. ROWS OF BRIDGING INDICATED THUS (- - - - -) ON PLAN.
5. PROVIDE ONE ROW HORIZONTAL UPLIFT BRIDGING AT EACH END OF EACH JOIST. LOCATE AT FIRST BOTTOM CHORD PANEL POINT ONLY. SEE UPLIFT BRIDGING DIAGRAM ON SHEET J1. UPLIFT BRIDGING TO BE: L2 x 2 x 1/8 MARK-F, OR TO BE: L2.1/2 x 2.1/2 x 5/32 MARK-G. ROWS OF UPLIFT BRIDGING INDICATED THUS (- - - - -).



ERECTOR NOTE

PLACE JOIST WITH TAGGED END AS INDICATED BY THE ARROW HEAD SYMBOL AT THE END OF MEMBER SHOWN ON THE ERECTION PLAN.



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

JOIST QUANTITIES	
JOIST GIRDERS	0
SHORT SPAN	0
LONG SPAN	53
JOIST SUBSTITUTES	0

STEEL ENCOUNTERS

INTERNATIONAL STRUCTURAL DIVISION
2000 CAMDENWAY, SUITE 300
SAK, PORTLAND, OR 97201
PHONE: (503) 251-1000
FAX: (503) 251-1001
WWW.STEELENCOUNTERS.COM
email: steel@steelencounters.com

PSE TRAINING CENTER PUYALLUP

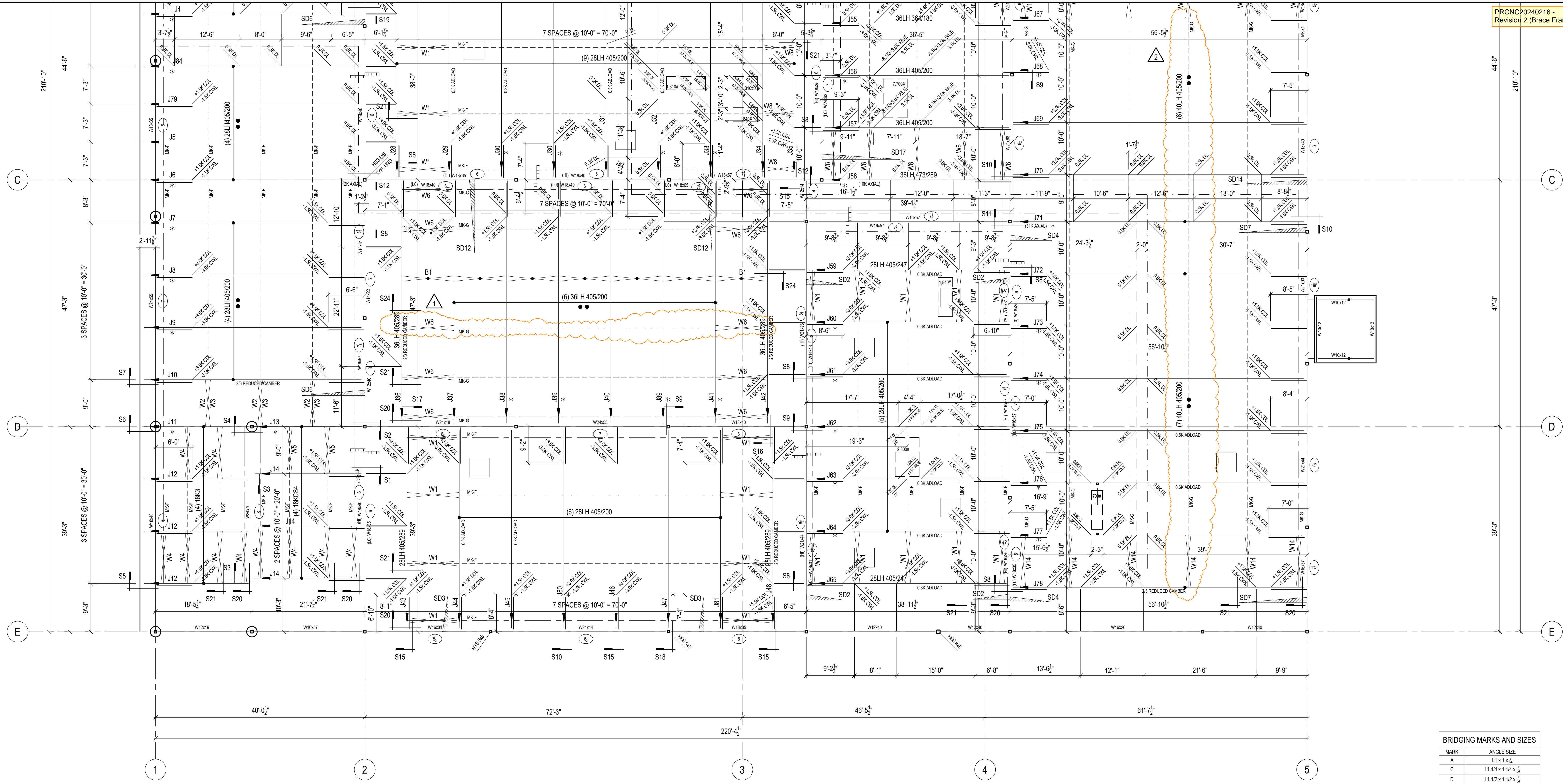
PUYALLUP, WA
PENNCON CONSTRUCTION COMPANY, INC.
SEE JOB NO. 43423

FINAL PLANS
FOR FIELD USE

NOTE TO CONTRACTOR AND ERECTOR:
RESPONSIBILITY FOR FIELD MODIFICATIONS OR ADDITIONAL MATERIAL WILL NOT BE
ACCEPTED UNLESS PREVIOUSLY AUTHORIZED BY STEEL ENCOUNTERS.

J2

PRCNC20240216 - Revision 2 (Brace Frame)



BRIDGING MARKS AND SIZES	
MARK	ANGLE SIZE
A	L1 x 1 1/2 x 1/4
C	L1 1/4 x 1 1/4 x 1/4
D	L1 1/2 x 1 1/2 x 1/4
E	L1 3/4 x 1 3/4 x 1/4
F	L2 x 2 x 1/4
G	L2 1/2 x 2 1/2 x 1/4

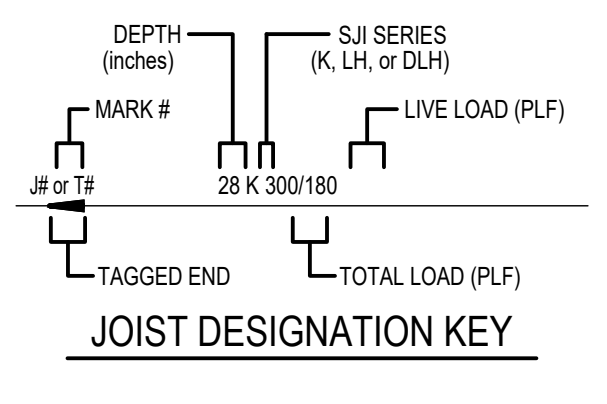
ROOF FRAMING PLAN- SOUTH

REF: S2.03

ROOF FRAMING NOTES

- COLOR CODE: BLUE.
- SEE SHEET J2 FOR GENERAL NOTES & ADDITIONAL FRAMING NOTES.
- SEE SHEET J4 & J5 FOR FRAMING SECTIONS.
- HORIZONTAL BRIDGING TO BE: L2 x 2 x 1/8 MARK-F. OR TO BE: L2 1/2 x 2 1/2 x 5/32 MARK-G. SEE NOTE #10 AND GENERAL NOTES "P." ON SHEET J1 FOR MORE INFORMATION. ROWS OF BRIDGING INDICATED THUS (-----) ON PLAN.
- PROVIDE ONE ROW HORIZONTAL UPLIFT BRIDGING AT EACH END OF EACH JOIST. LOCATE AT FIRST BOTTOM CHORD PANEL POINT ONLY. SEE UPLIFT BRIDGING DIAGRAM ON SHEET J1. UPLIFT BRIDGING TO BE: L2 x 2 x 1/8 MARK-F. OR TO BE: L2 1/2 x 2 1/2 x 5/32 MARK-G. ROWS OF UPLIFT BRIDGING INDICATED THUS (-----).
- BOLTED HORIZONTAL BRIDGING TO BE: L 1. 3/4x 1. 3/4 x 7/64. SEE PLAN FOR MARK. ROWS OF BRIDGING INDICATED THUS (-----).

ERECTOR NOTE
 PLACE JOIST WITH TAGGED END AS INDICATED BY THE ARROW HEAD SYMBOL AT THE END OF MEMBER SHOWN ON THE ERECTION PLAN.



City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

JOIST QUANTITIES	
JOIST GIRDERS	0
SHORT SPAN	8
LONG SPAN	34
JOIST SUBSTITUTES	0

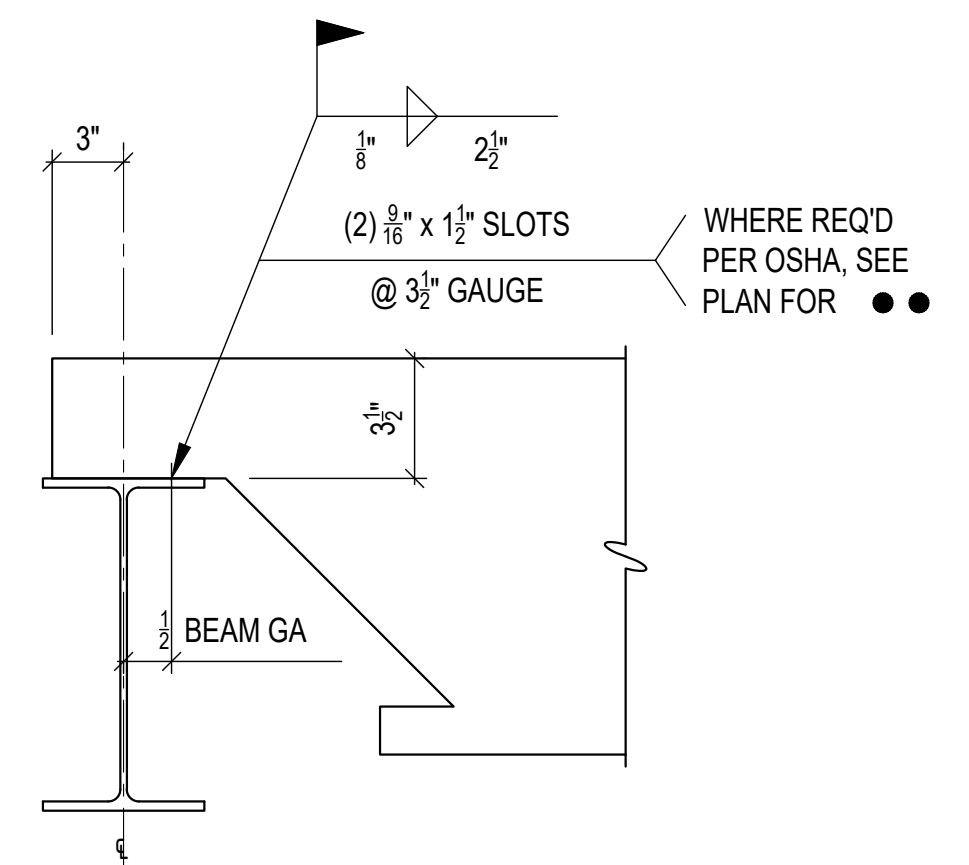
⚠ DANGER
 A FALL CAUSING SERIOUS INJURY OR DEATH MAY RESULT FROM FAILURE TO FOLLOW ALL SAFETY PRECAUTIONS

- JOIST HAVE NOT BEEN DESIGNED FOR STABILITY OR TO SUPPORT YOUR WEIGHT WITHOUT PROPER BRACING.
- DO NOT STAND OR ALLOW OTHERS TO STAND ON JOISTS UNLESS PROPERLY BRACED.
- ALWAYS USE FALL PROTECTION WHEN IN A FALL HAZARD AND FOLLOW ALL OSHA SAFETY REGULATIONS.
- JOISTS AT OR NEAR COLUMNS ARE NOT DESIGNED TO SAFELY CARRY 28 CIPR 1620.157 (A)(3).
- ALWAYS STABILIZE JOIST BEFORE RELEASING HOISTING CABLES using approved erection methods.

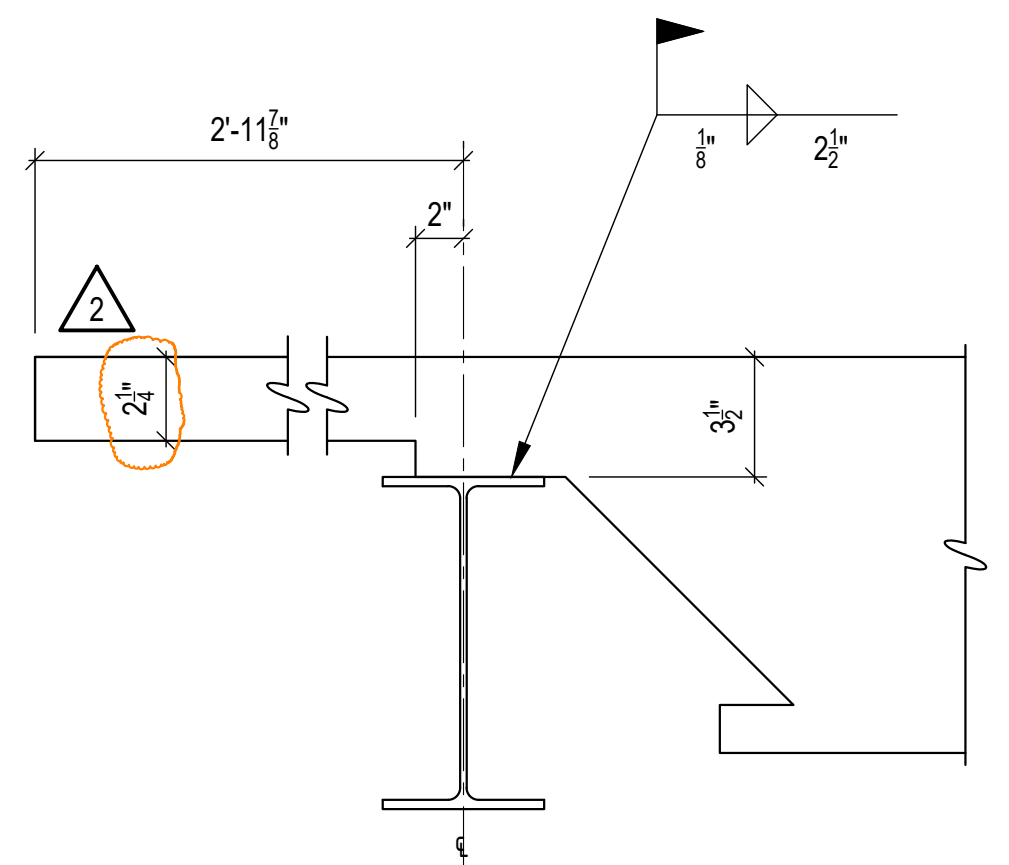
10/06/2024	DATE
09/26/2024	REVISION
10/06/2024	REVISION
07/09/2024	REVISION
08/01/2024	REVISION

DESIGNED BY: MARCOS MARTINEZ
 04/24/2024
 BY: GRAY
 08/2024

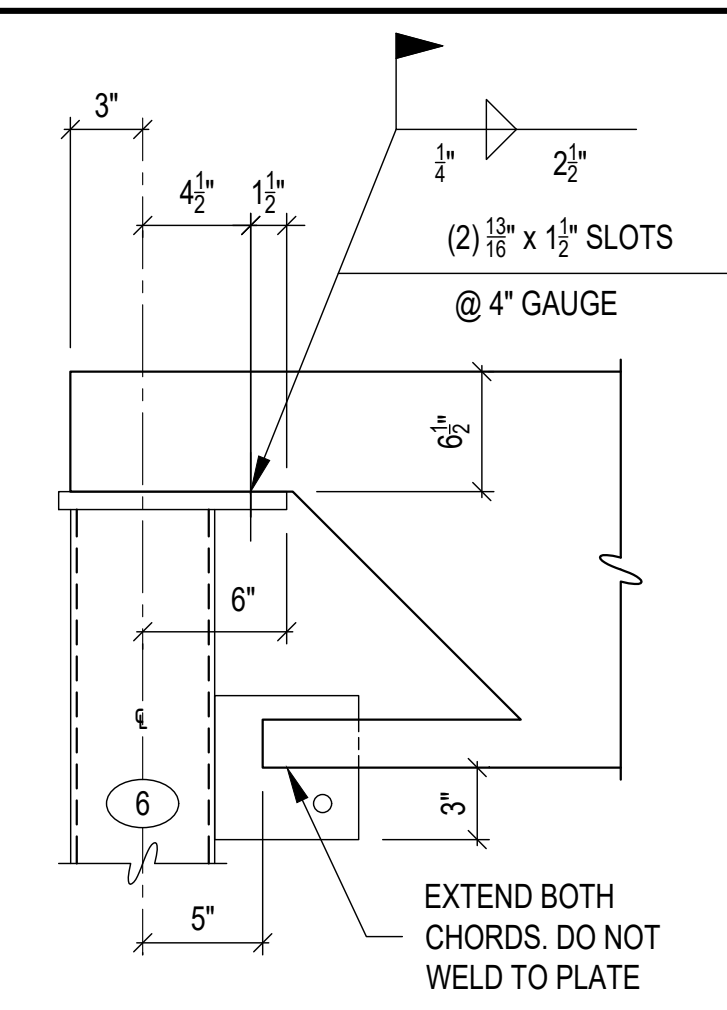
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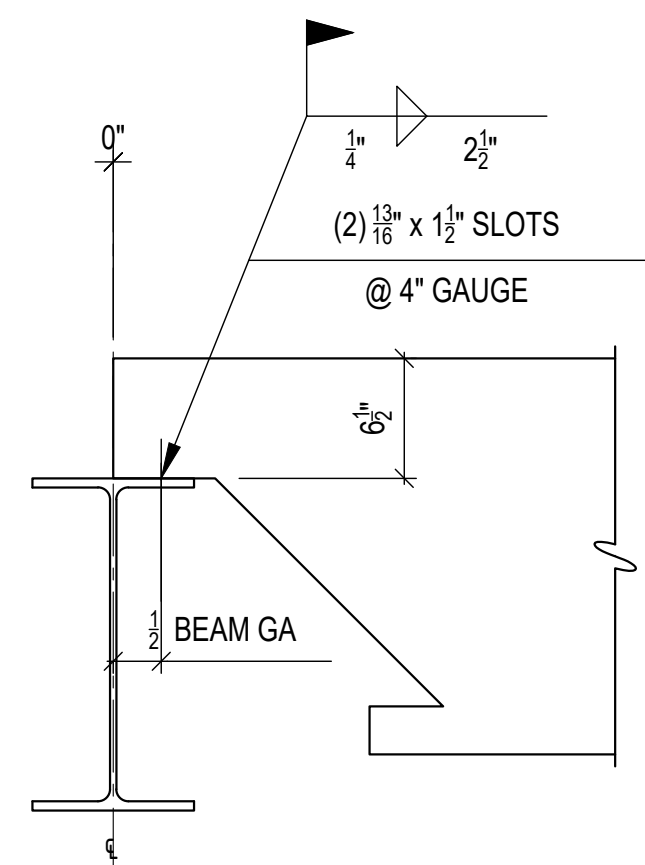
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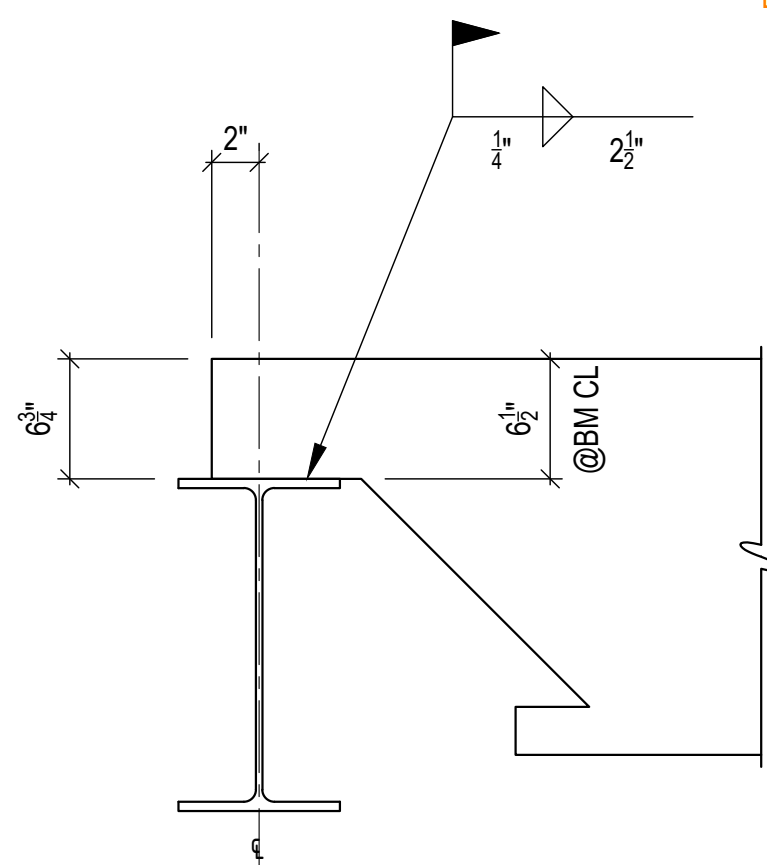
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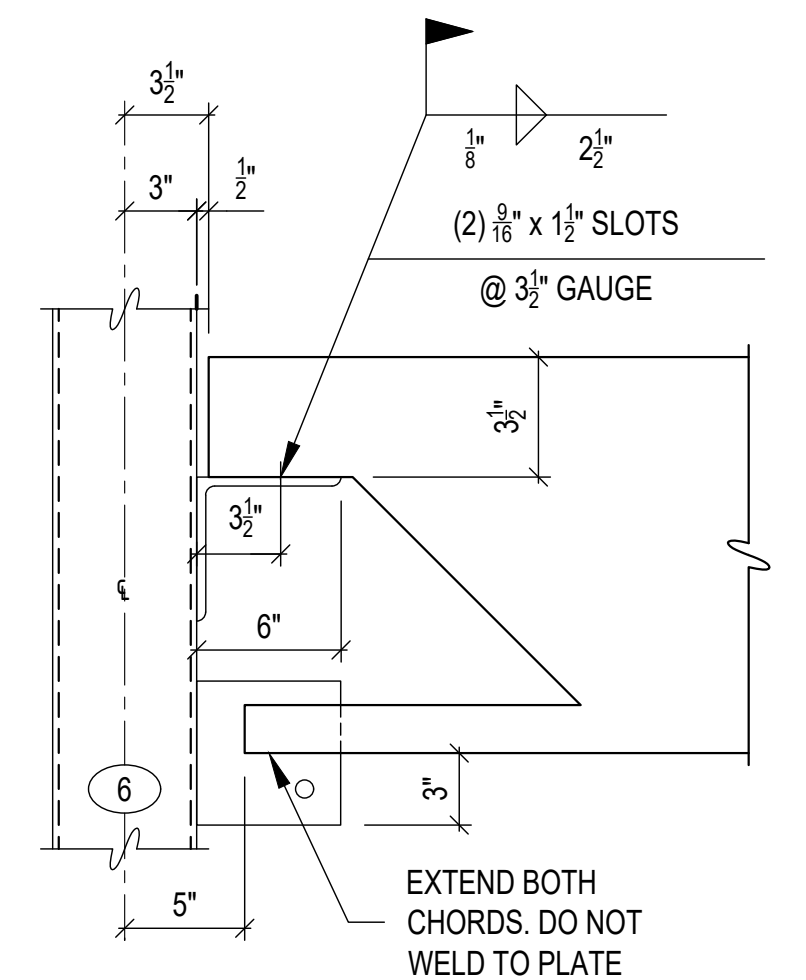
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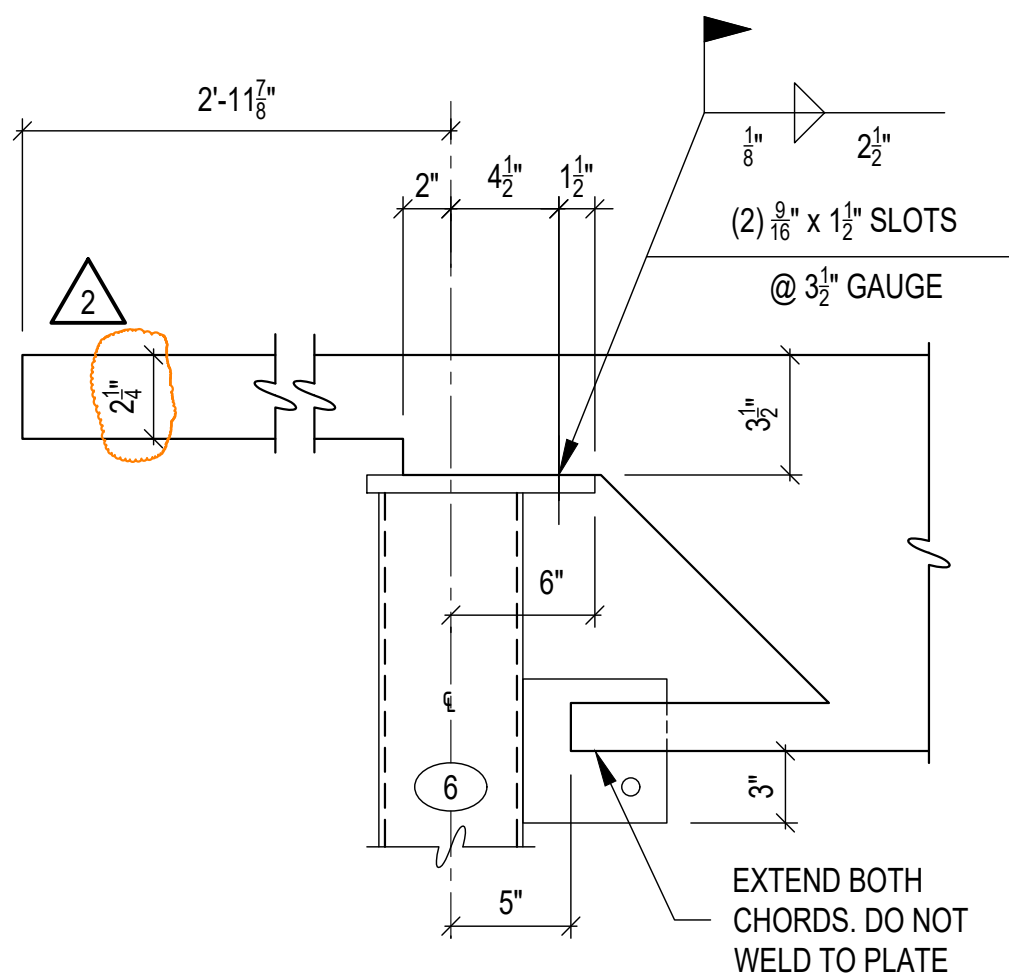
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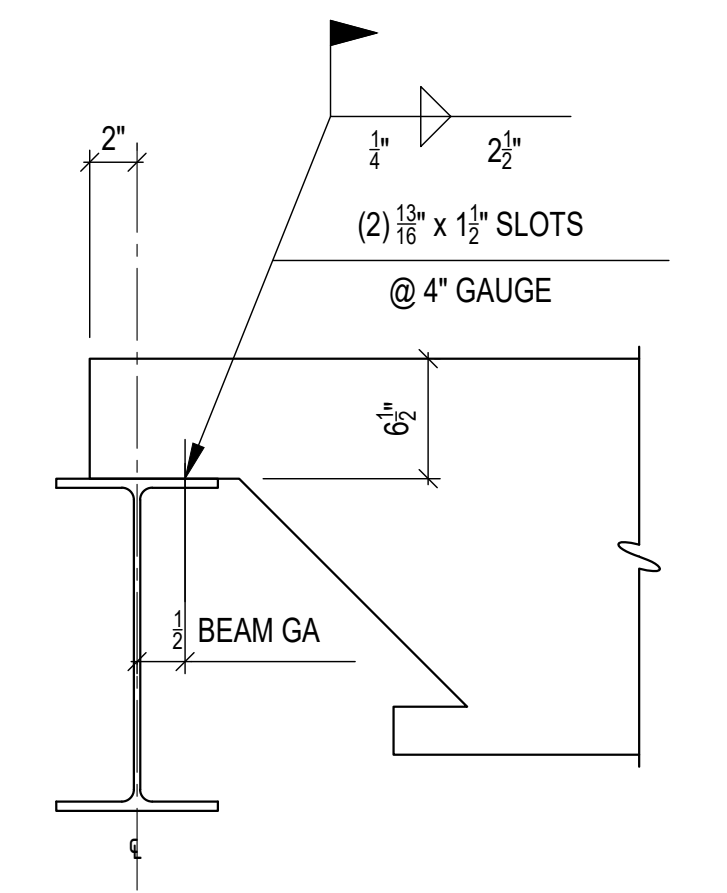
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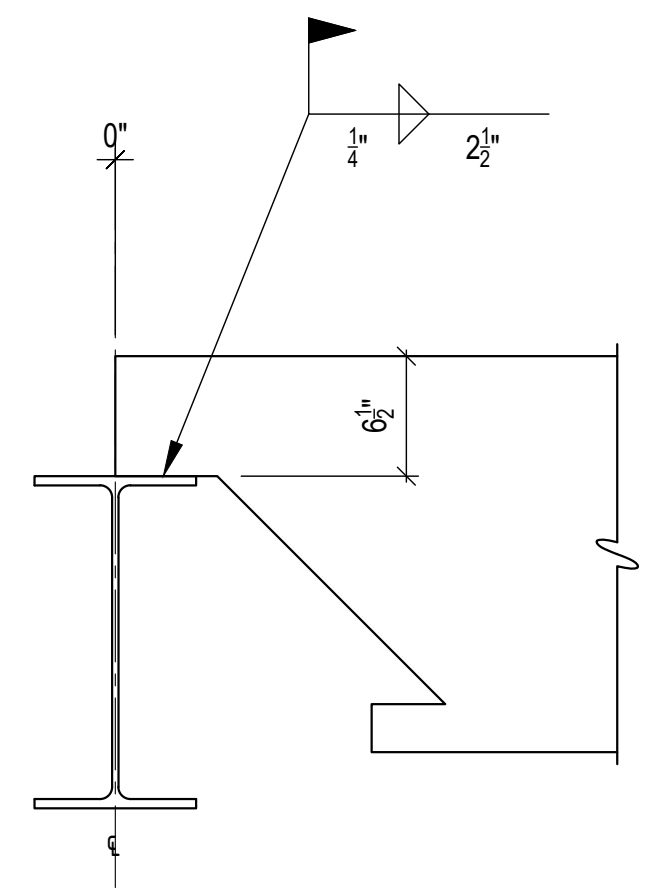
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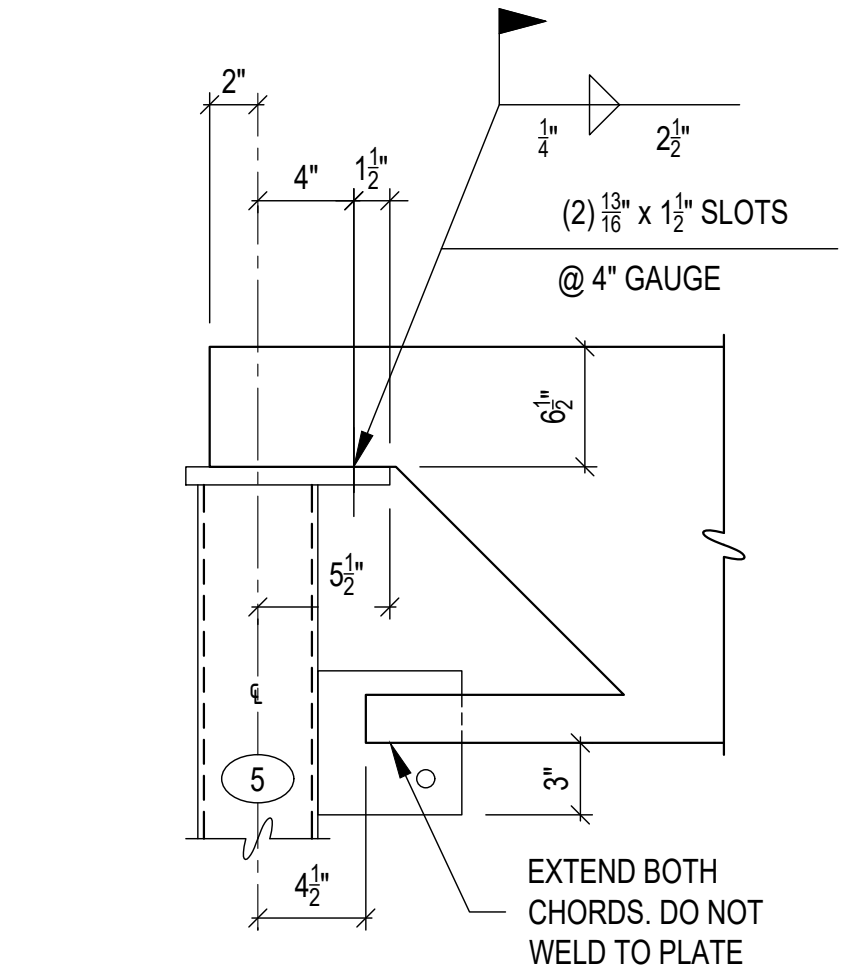
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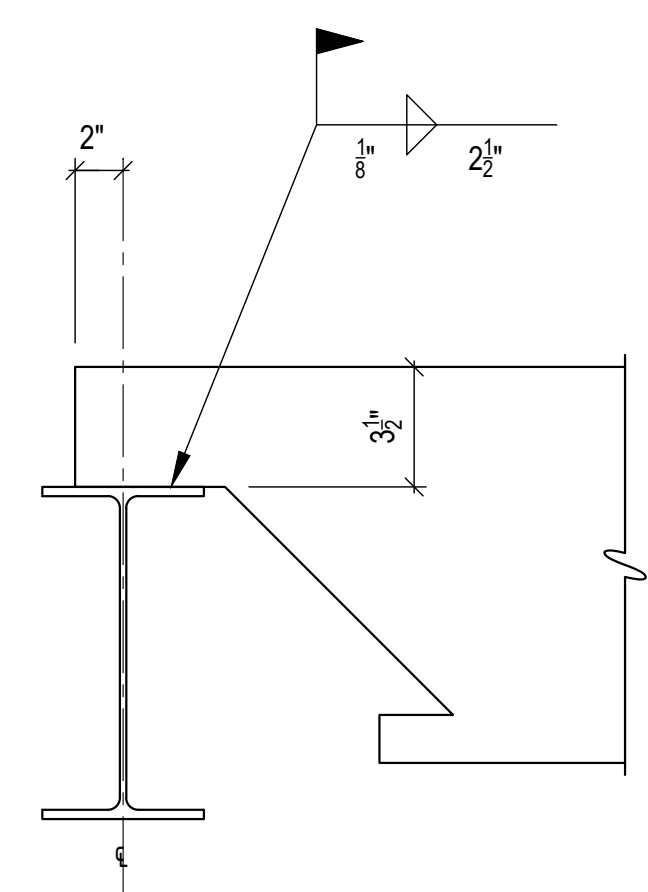
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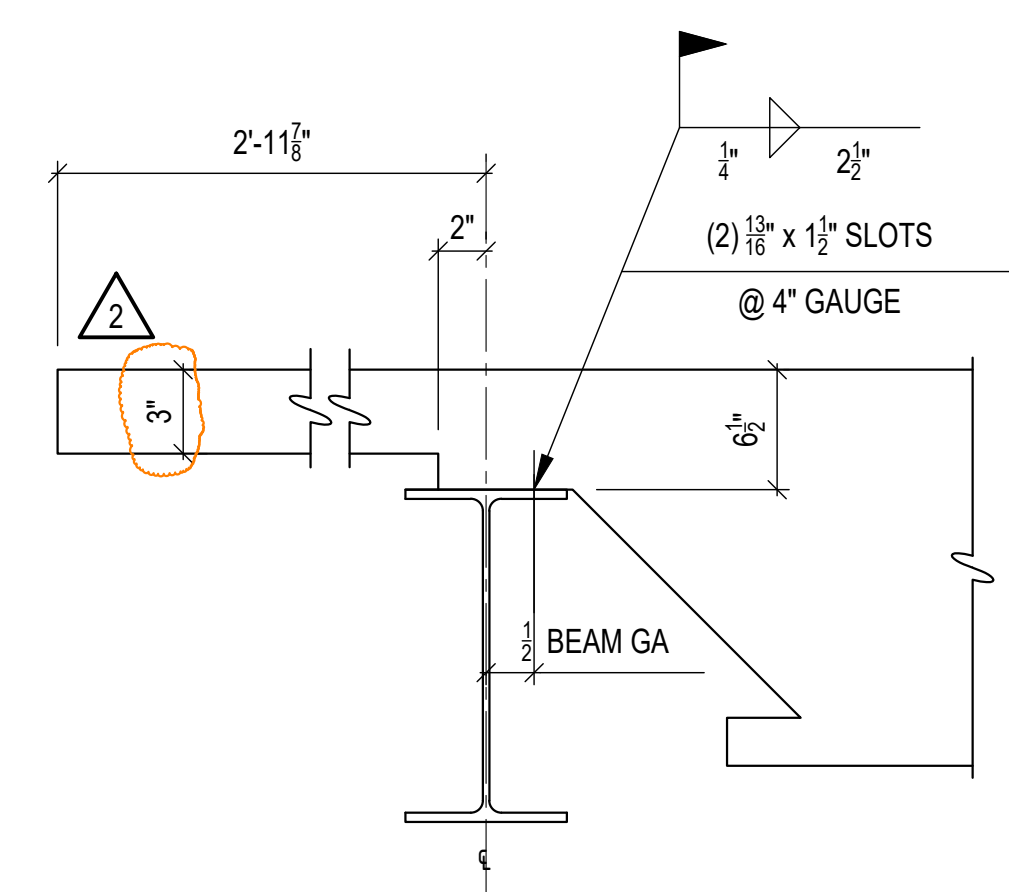
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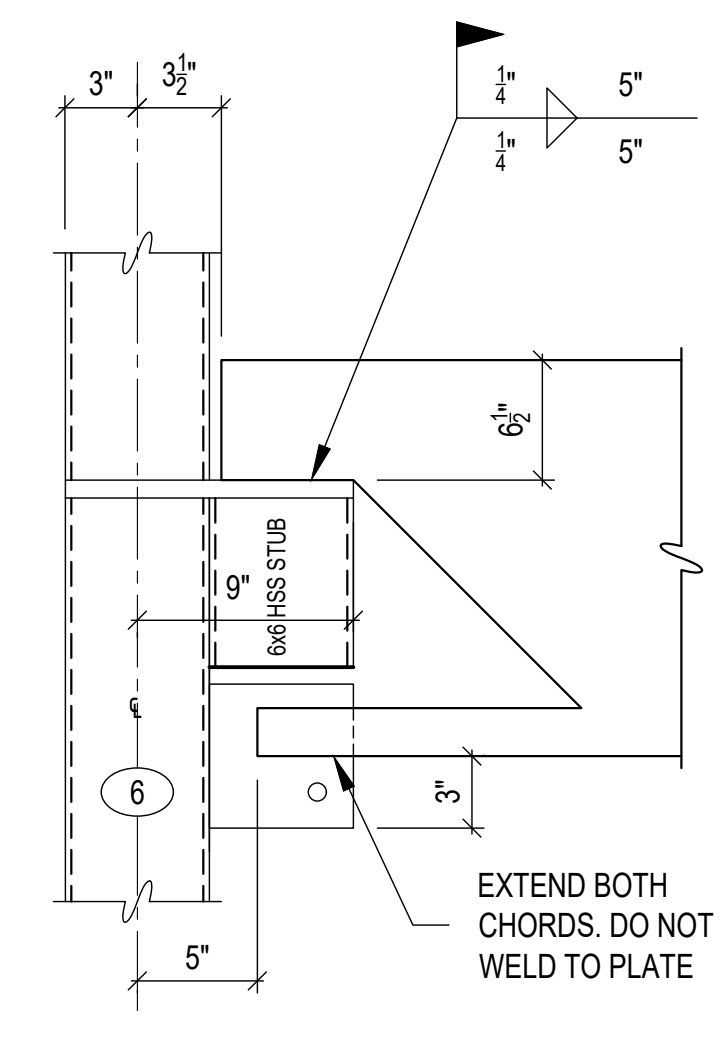
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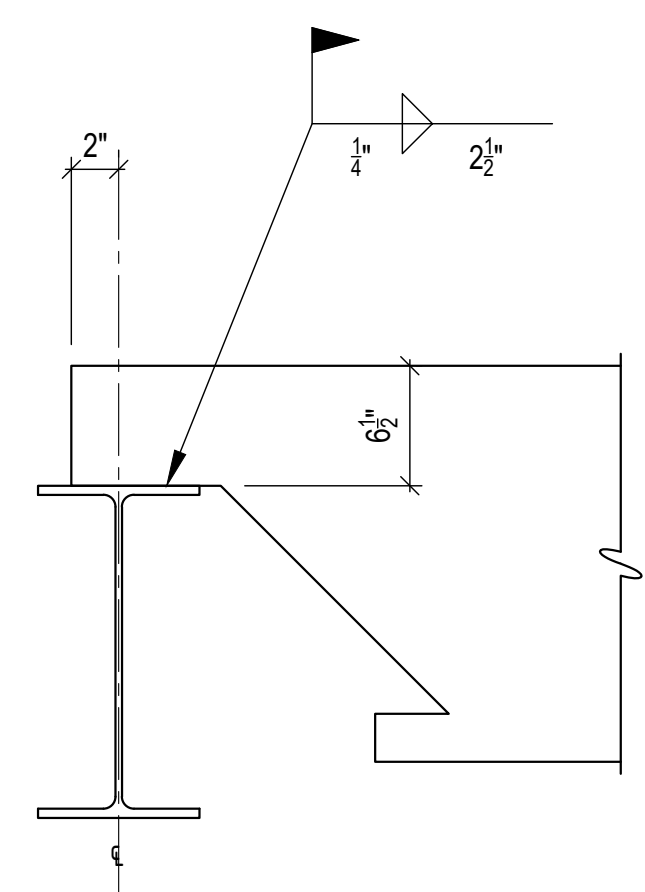
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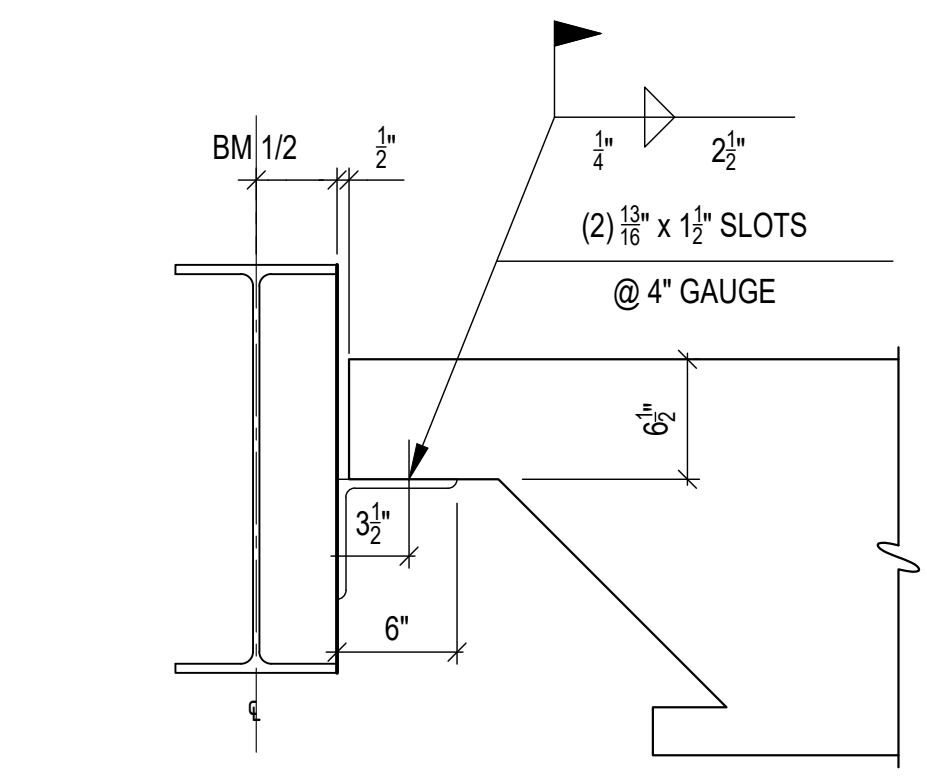
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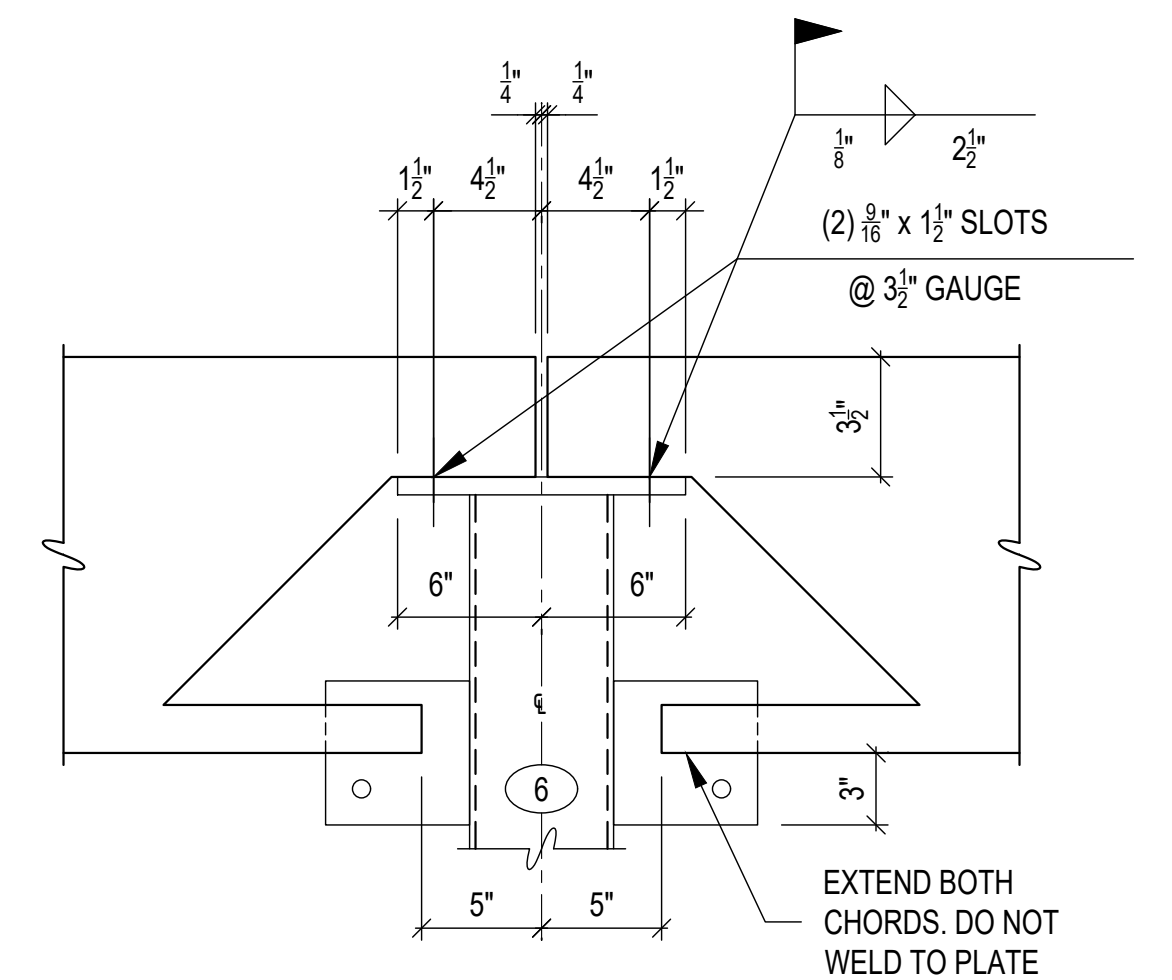
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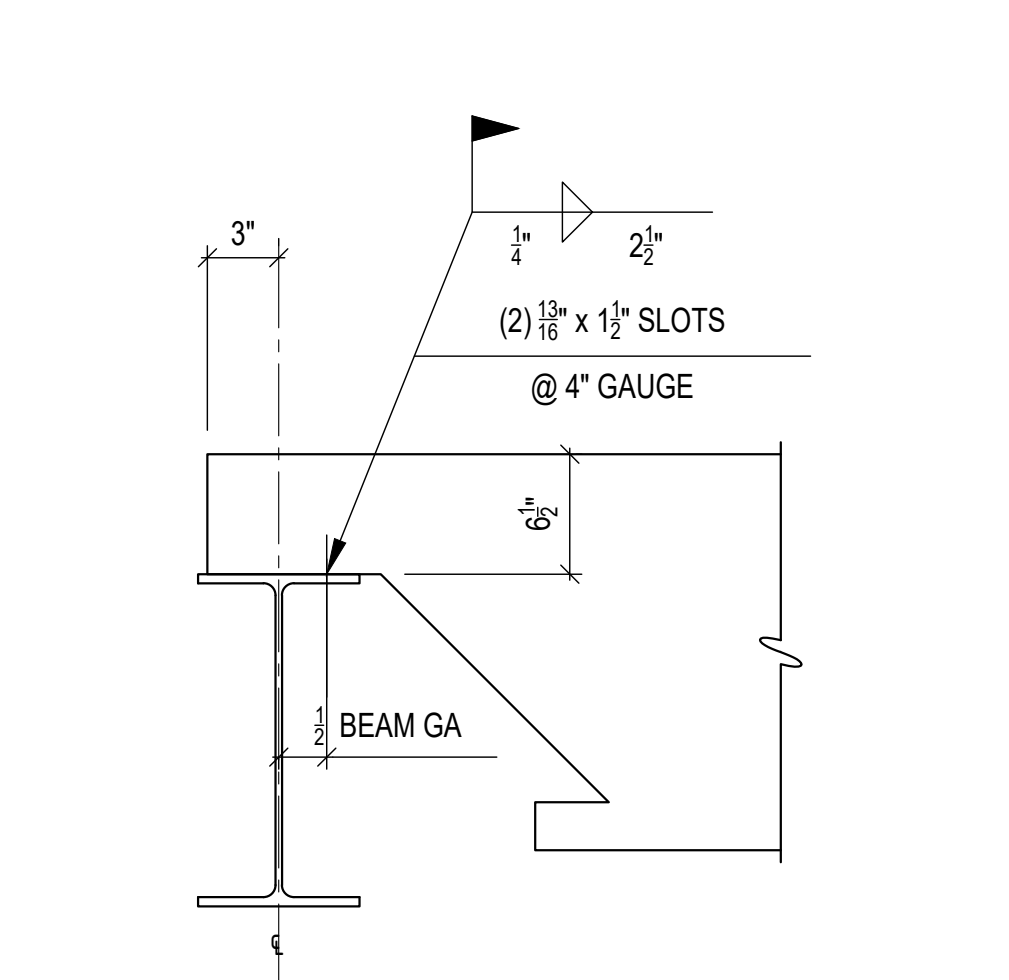
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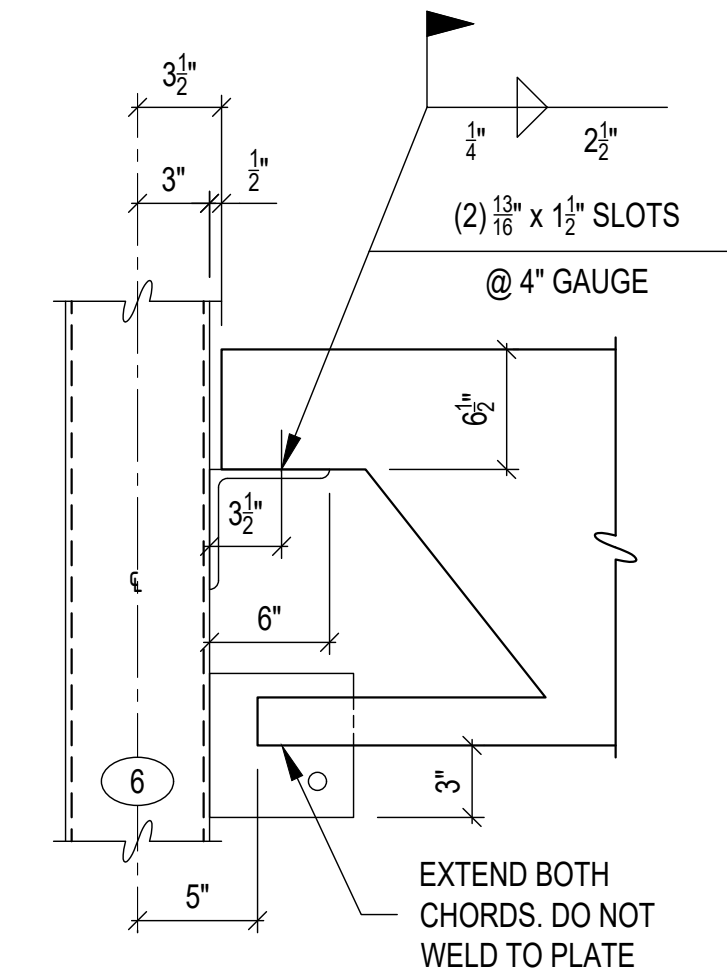
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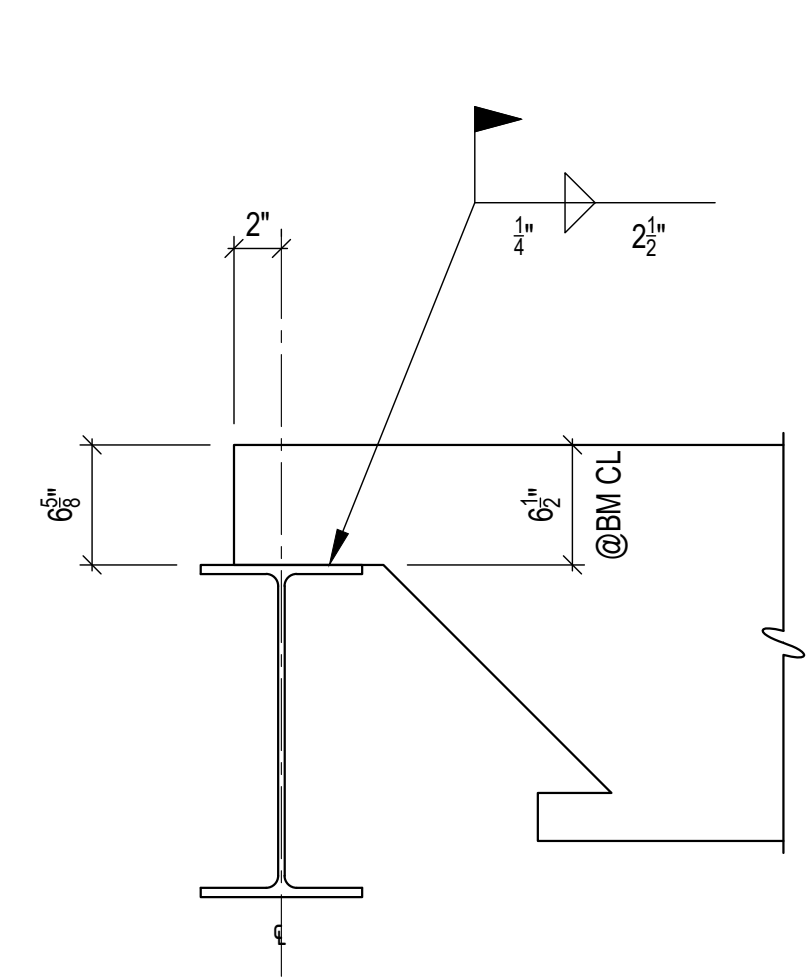
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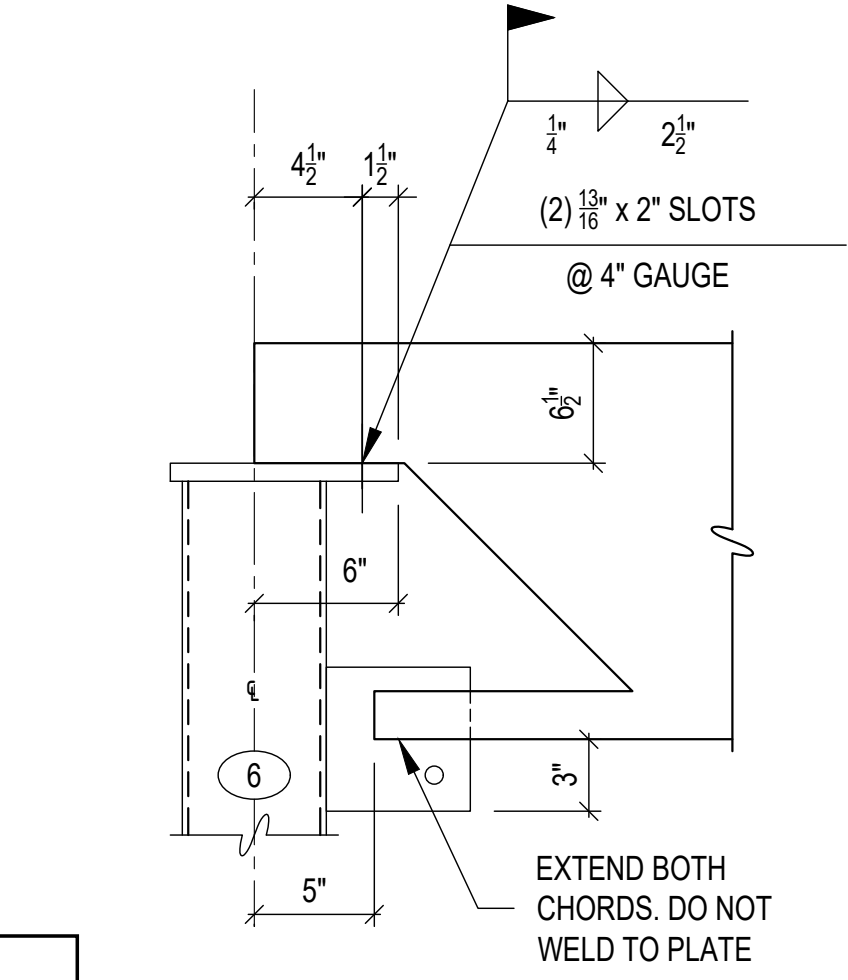
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REF: 1/84.07



SECTION S12
REF: 2/84.07



SECTION S16
REF:



SECTION S25
REF:

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

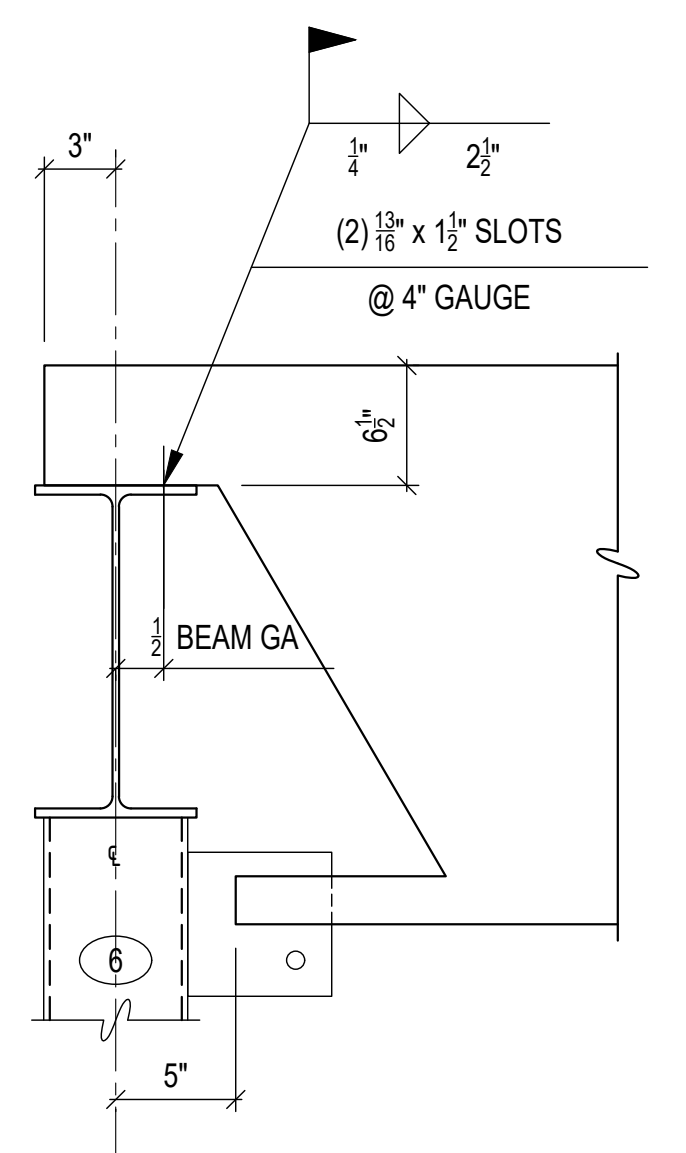
Building	Planning
Engineering	Public Works
Fire	Traffic

Welding to be completed by an individual or fabricator who is WABO certified or approved by the Building Official to perform the work. All welds must be inspected and approved by a WABO certified special inspector.

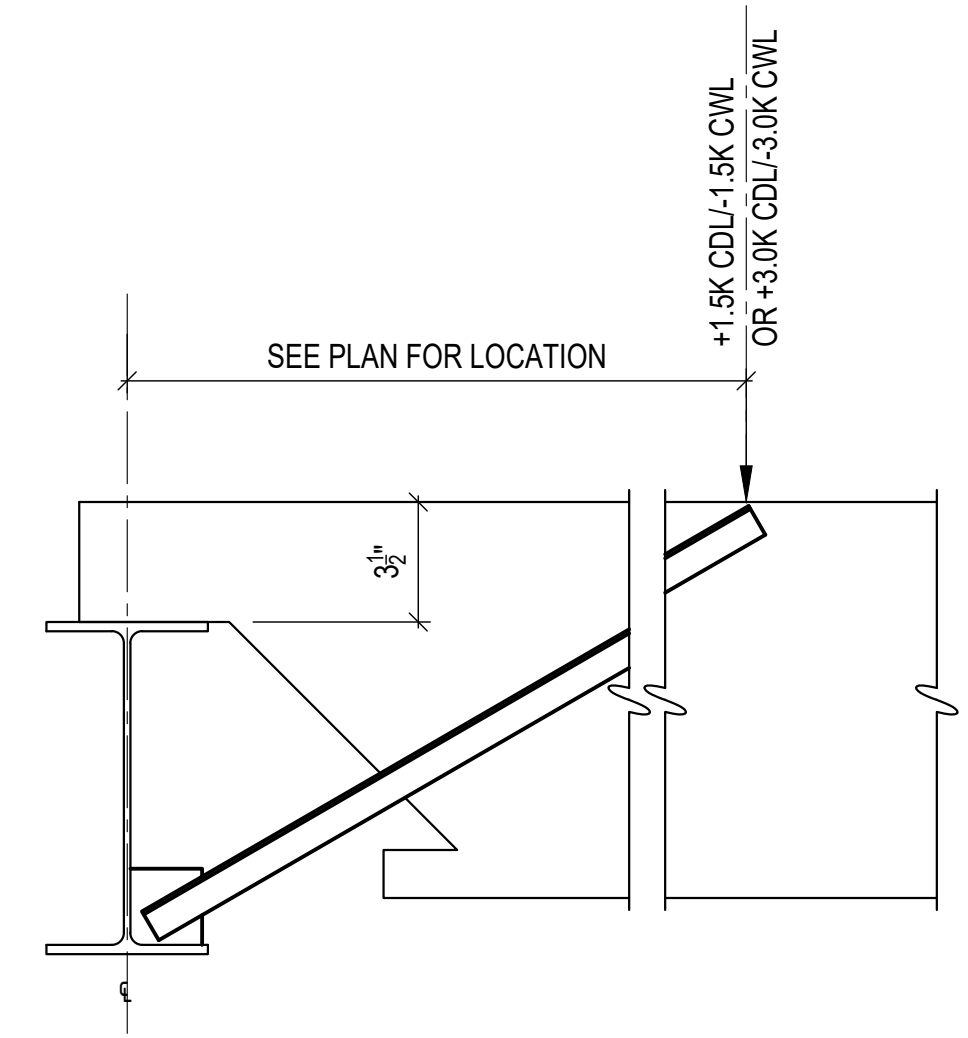
NO.	DESCRIPTION	DATE
1	ROWS OF BRIDGING ADDED SECTIONS S1, S6 & S7 REVISED	09/26/2024
2	ADDITIONAL ROW OF BRIDGING ADDED	10/06/2024
3	FROM APPROVAL RELEASED FOR FABRICATION/FINALS	07/06/2024
4	FOR RESUBMITTAL	08/01/2024
5	APPROVAL DRAWINGS	

DESIGNED BY: MARCOS MARTINEZ
04/24/2024

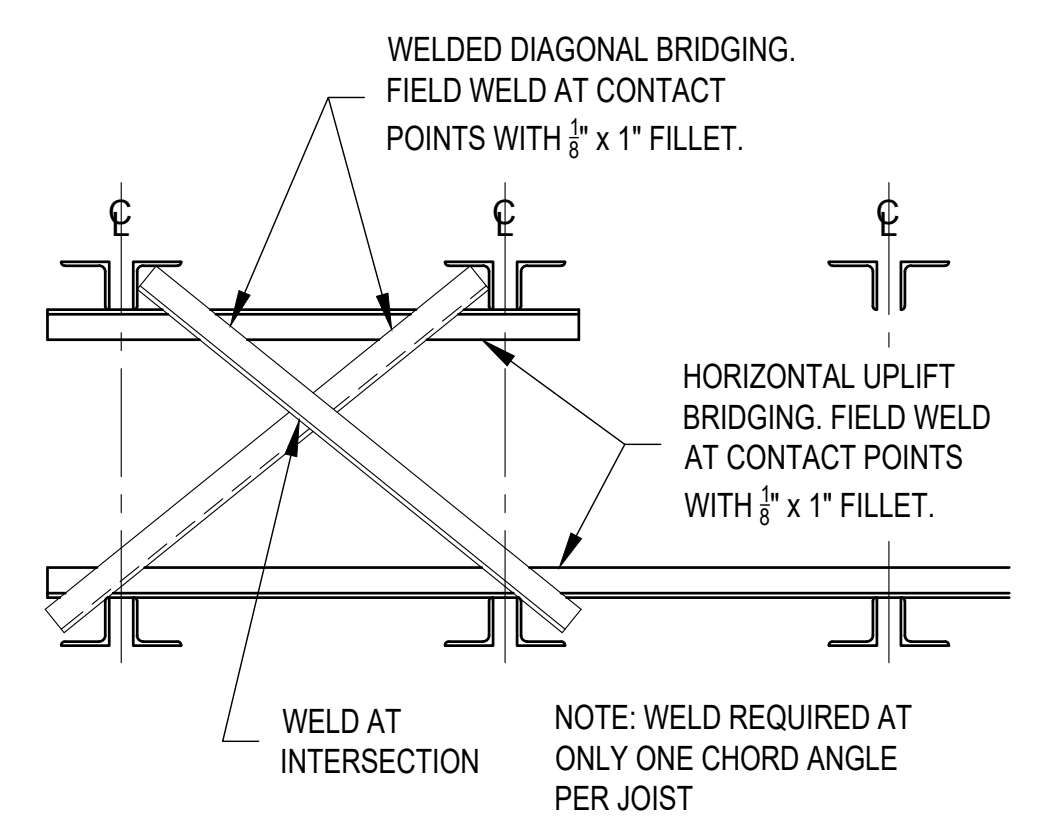
BY: 08/2024



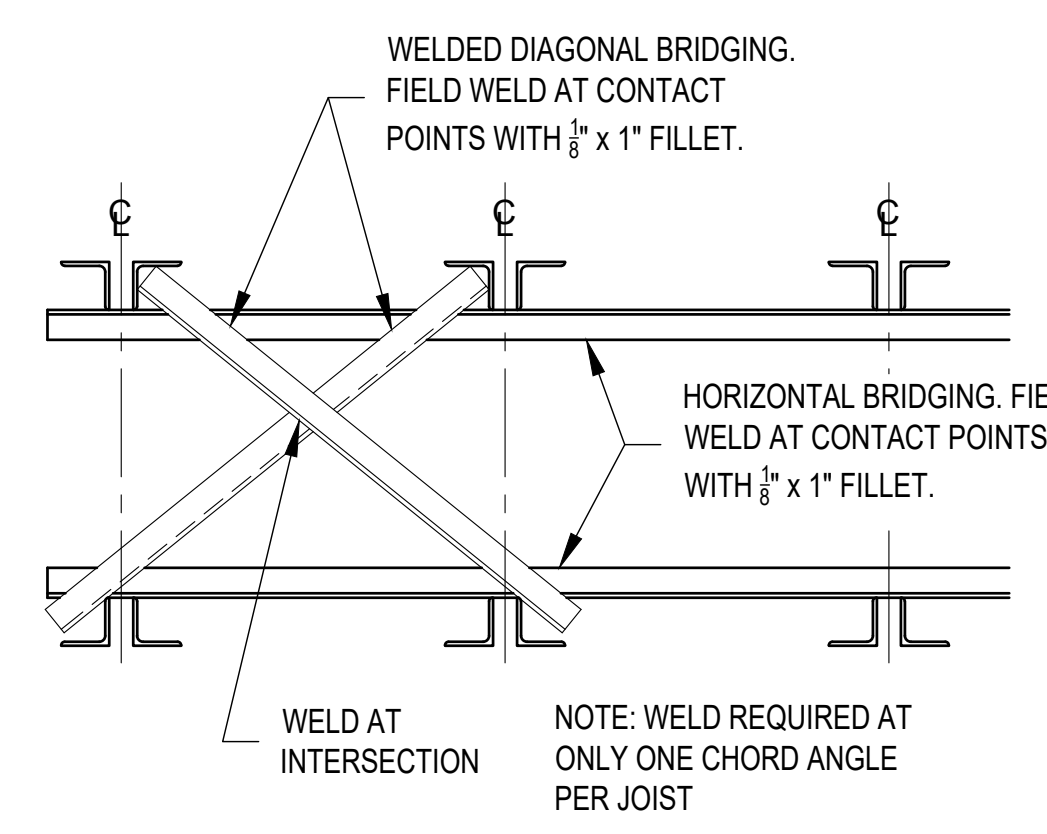
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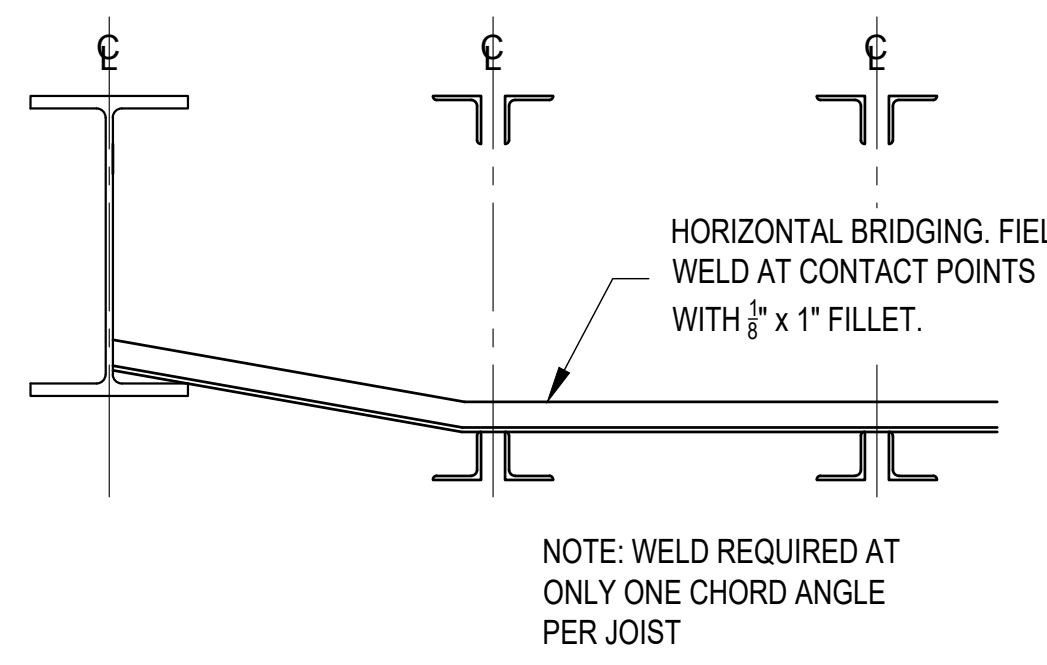
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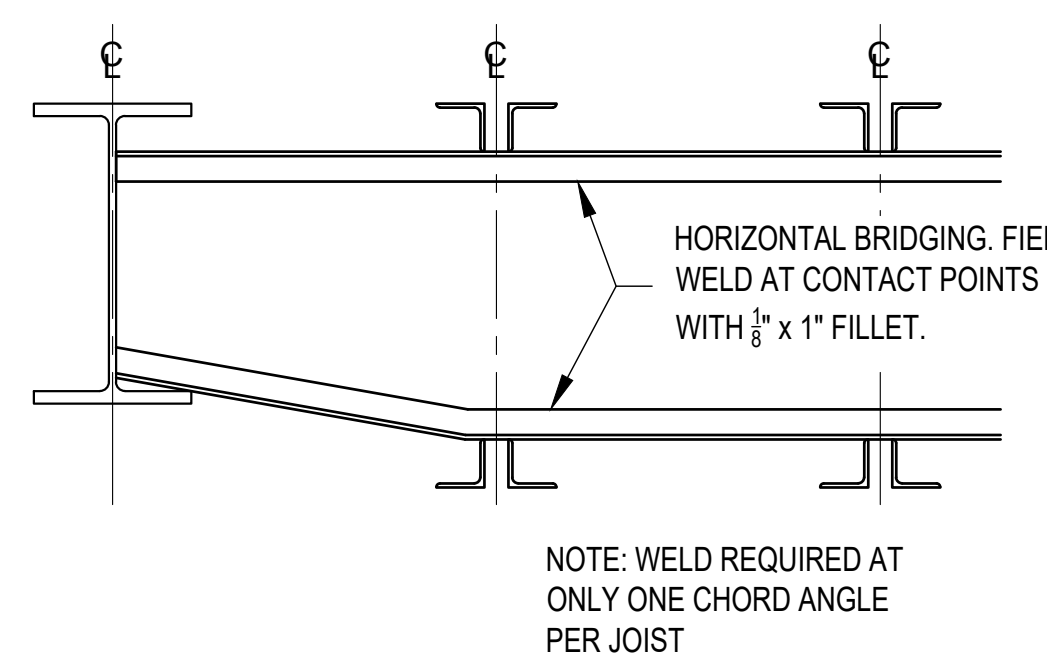
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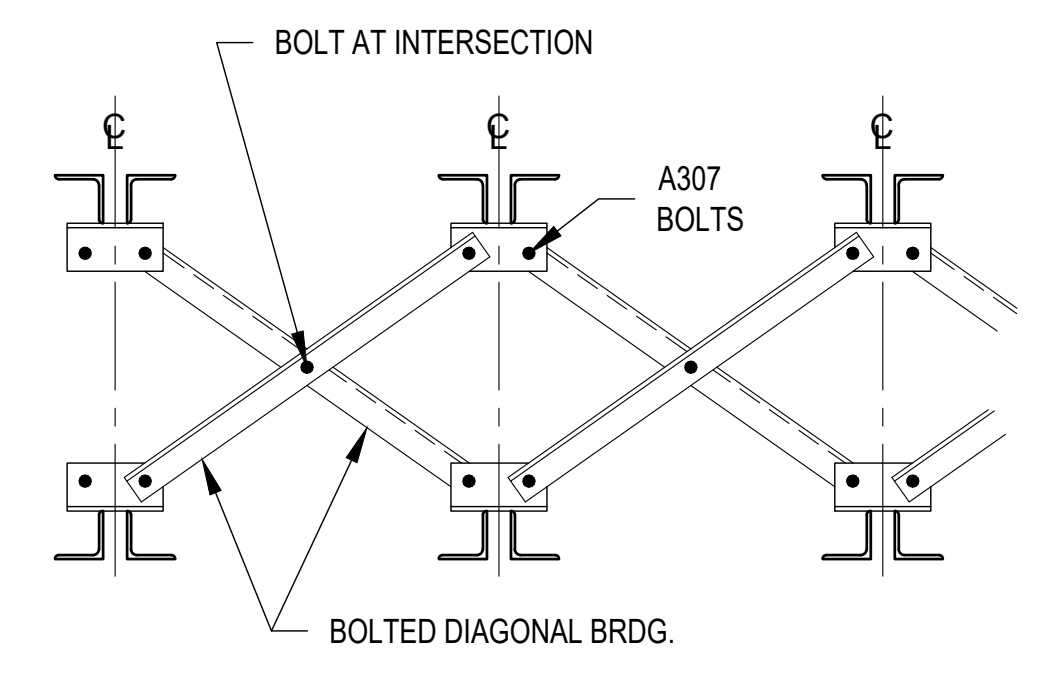
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SECTION S22
REF: REFERENCE#



SECTION S23
REF: ###



SECTION S24
REF: ###

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

REV	DESCRIPTION	DATE
0	FROM APPROVAL RELEASED FOR FABRICATION/FINALS	08/02/2024
B	FOR RESUBMITTAL	07/09/2024
A	APPROVAL DRAWINGS	08/01/2024

DESIGNED BY: MARCOS MARTINEZ
04/24/2024
BY: [Signature]
08/2024