

TODD THURNAU

2504 E MAIN AVE., PUYALLUP, WA 98372 (PIERCE COUNTY, WA) 20' X 35' X 16'

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

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

City of Puyallup
Building REVIEWED FOR COMPLIANCE
RayC
07/17/2023
9:34:23 AM



Location by FPE per engineering report.
Storage commodities and quantity is limited by code and FPE report.

STRUCTURAL DESIGN NOTES

- ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH , IBC 2018, ASCE7-16, OSHA, AISC 360, AISI 100, AWS D1.3 CODES AND ALL OTHER APPLICABLE LOCAL CITY OR COUNTY REQUIREMENTS.
- ALL MATERIALS IDENTIFIED BY A MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
- ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS. NO FIELD WELDING IS REQUIRED. WELDING ELECTRODES PER AWS CODE, E70XX UNLESS NOTED OTHERWISE ON PLANS.
- ALL STRUCTURAL FIELD CONNECTIONS SHALL BE #12-14 x 3/4" SDS (ESR-2196) U.N.O. NO NEOPRENE WASHERS ARE PERMITTED AT STRUCTURAL CONNECTIONS.
- STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80 KSI) OR EQ.
- SHEATHING CONNECTIONS SHALL BE #12-14 x 3/4" SDS. NEOPRENE WASHERS ARE REQUIRED.
- ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE ASTM A653 (HSLA) GRADE 50 STEEL (FY = 50 KSI, Fu = 65 KSI) OR EQUAL.
- STRUCTURAL TUBES 2 1/2" x 2 1/2" x 14GA (0.083") IS EQUIVALENT TO TS 2 1/2" x 2 1/2" x 12GA (0.109") AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.
- GYPSUM BOARD OR DRYWALL FINISH OR ANY BRITTLE BASE MATERIAL IS NOT CONSIDERED OR ACCOUNTED FOR ON THE DESIGN CRITERIA OF THIS STRUCTURE. U.N.O.

STRUCTURAL DESIGN CRITERIA

- PREVAILING CODE: WSBC (IBC 2018)
USE GROUP: B (BUSINESS)
CONSTRUCTION TYPE: V - B
RISK CATEGORY: II
BUILDING FOOTAGE: 700 SQ.FT
- DEAD LOAD (D)
COLLATERAL LOAD
2.0 PSF
 - ROOF LIVE LOAD (Lr)
Lr = 20 PSF
 - SNOW LOAD (S)
GROUND SNOW LOAD IMPORTANCE FACTOR
THERMAL FACTOR
EXPOSURE FACTOR
ROOF SLOPE FACTOR
FLAT ROOF SNOW LOAD
SLOPED ROOF SNOW LOAD
MINIMUM SNOW LOAD
Pg = 20 PSF
Is = 1.00
Ct = 1.2
Ce = 1.0
Cs = 1.0
Pf = 17 PSF
Ps = 17 PSF
Pm = 20 PSF
 - WIND LOAD (W)
DESIGN WIND SPEED EXPOSURE
Vult = 110 MPH
C
 - SEISMIC LOAD (E)
Ss / S1
SDS / SD1
DESIGN CATEGORY
SITE CLASS
IMPORTANCE FACTOR
Ie = 1.00
1.258/0.433
1.006/NULL
D (DEFAULT)
D (DEFAULT)
Ie = 1.00
- ASD LOAD COMBINATIONS:
1. D + (Lr OR S)
2. D + (0.6W OR ±0.7E)
3. D + 0.75 (0.6W OR ±0.7E) + 0.75 (Lr OR S)
4. 0.6D + (0.6W OR ±0.7E)

SCOPE OF PLANS:

- TO PROVIDE STRUCTURAL DESIGN FOR THE PRE-FAB METAL BUILDING PER THE SPECIFIED DESIGN LOADS, AND APPLICABLE BUILDING CODES. ANY DISCREPANCIES IN DESIGN LOADS SHALL BE BROUGHT TO THE ATTN. OF THE ENGINEER OF RECORD.
- DOES NOT PROVIDE ANY ARCHITECTURAL, SITE, ZONING, HVAC, ELEC, MECH DESIGN OR REQUIREMENTS. THESE ITEMS MUST BE ADDRESSED BY THEIR RESPECTIVE PROFESSIONALS IN CHARGE.

STRUCTURAL DRAWING INDEX

- COVER SHEET
- ELEVATIONS
- FOUNDATION PLAN
- FOUNDATION DETAILS
- COLUMN LAYOUT PLAN & DETAILS
- FRAME SECTION & DETAILS
- SIDE WALL FRAMING & DETAILS
- END WALL FRAMING & DETAILS

Pg 1 of 13 Coffman engineering report revised June 13, 2023 , minimum of 5 foot separation to the existing building.
Commodity class and quantity shall be maintained in compliance with the report and building code standards.

SPECIAL INSPECTIONS

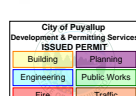
NO SPECIAL INSPECTIONS ARE REQUIRED FOR THIS STRUCTURE. AS IT MEETS THE EXCEPTIONS OF SECTION 1704 PER WSBC (IBC 2018), UNLESS EXPLICITLY REQUIRED BY THE BUILDING OFFICIAL.

REVISIONS LIST

MARK	COMMENTS	DATE
-	ISSUED FOR PERMIT & CONST.	APR 28 2023

2.23.47.0

THE INFORMATION CONTAINED IN THESE DRAWINGS IS THE SOLE PROPERTY OF NORTHSIDE METAL CARPORTS LLC ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF NORTHSIDE METAL CARPORTS LLC IS PROHIBITED.



PROJECT NO:	331-23-0987
DRAWN BY:	KO
DATE:	4/28/2023

LOCATION: 2504 E MAIN AVE.
PUYALLUP, WA 98372

SHEET TITLE: COVER SHEET
PROJECT TITLE: TODD THURNAU

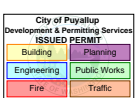
FOR QUESTIONS, MODIFICATIONS, REVISIONS OR CORRECTIONS NEEDED TO PLANS, PLEASE CONTACT THE METAL BUILDINGS MANUFACTURER LISTED ON PLANS. ENGINEER OF RECORD REQUIRES AUTHORIZATION FROM THE METAL BUILDINGS MANUFACTURER TO MAKE ANY CHANGES TO PLANS.

NORTHSIDE METAL CARPORTS LLC
110 Avery Rd E
Chehalis, WA 98532
360-262-9354

MANUFACTURER



EXPIRES: 1/3/2024
SIGNED: APR 28 2023



LOCATION: **2504 E MAIN AVE. PUYALLUP, WA 98372**

PROJECT TITLE: **TODD THURNAU**

SHEET TITLE:

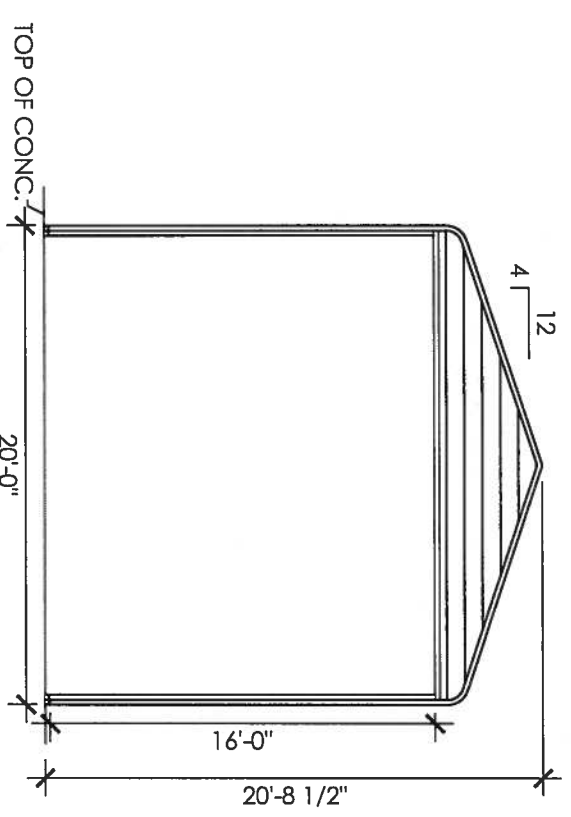
ELEVATIONS

▶ METAL BUILDING MANUFACTURER ▶

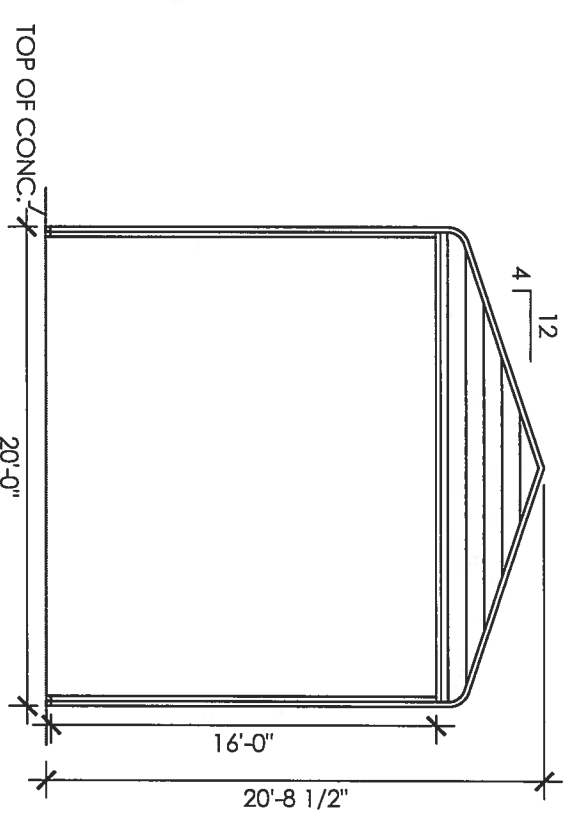
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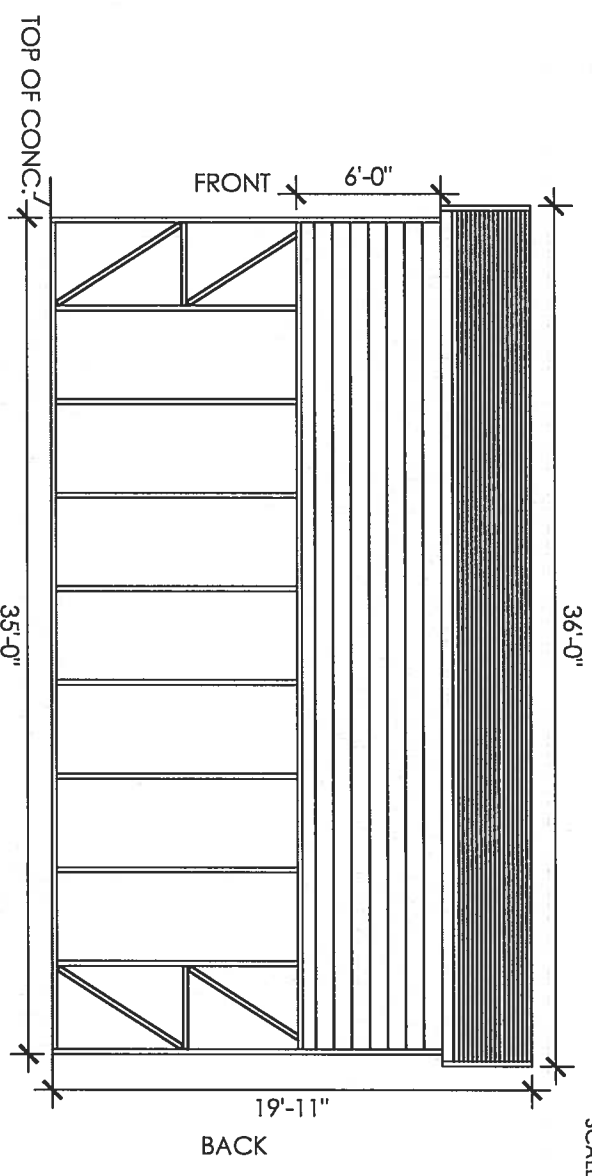
EXPIRES: **1/3/2024**
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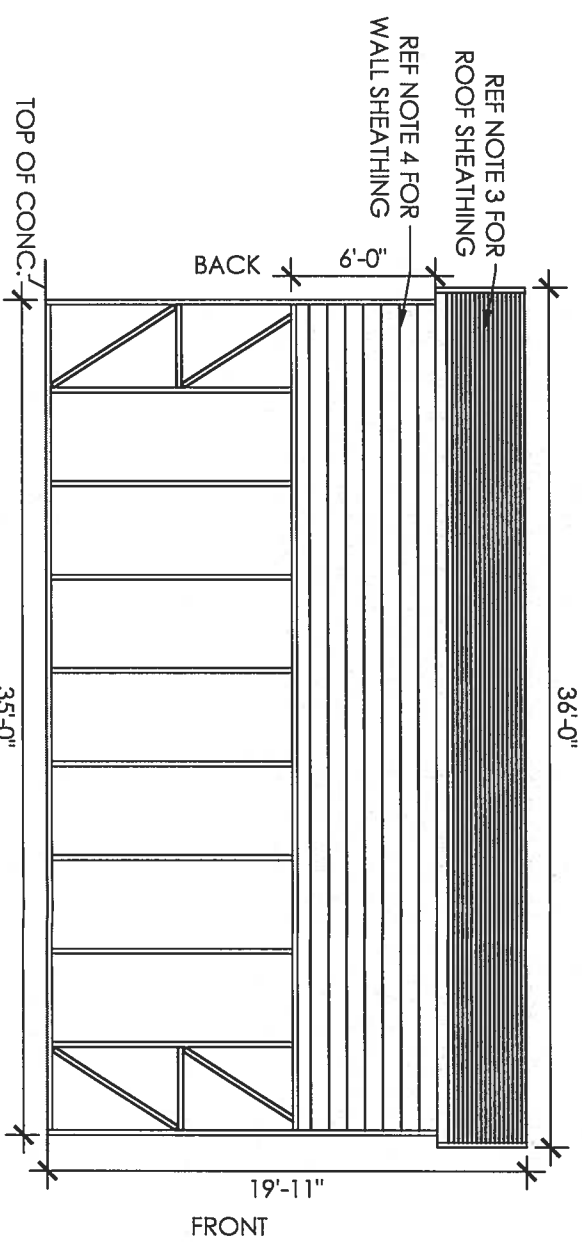
FRONT END WALL ELEVATION
SCALE: 1/8" = 1'



BACK END WALL ELEVATION
SCALE: 1/8" = 1'



RIGHT SIDE WALL ELEVATION
SCALE: 1/8" = 1'

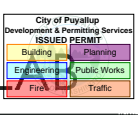


LEFT SIDE WALL ELEVATION
SCALE: 1/8" = 1'

DESIGN NOTES

1. THE INTENTION OF ELEVATIONS PROVIDED ON THIS SHEET IS TO INDICATE STRUCTURAL COMPONENTS, DIMENSIONS, AND BUILDING ORIENTATION ONLY.
2. ARCHITECTURAL DESIGN REQUIREMENTS ARE NOT COVERED IN THIS PLAN SET. THESE DESIGN REQUIREMENTS SHALL BE ADDRESSED IN A SEPARATE ARCHITECTURAL SET BY RESPONSIBLE LICENSED PROFESSIONALS IN CHARGE, AS NEEDED.
3. ALL EXT ROOF SHEATHING SHALL BE: CLASS A RATED 29GA. 3/4" RIB HT - GALV OR PAINTED STEEL (FY=80 KSI) OR EQ.
4. ALL EXT WALL SHEATHING SHALL BE: CLASS A RATED 29GA. 3/4" RIB HT - GALV OR PAINTED STEEL (FY=80 KSI) OR EQ.
5. LOC OF WALK-IN DOORS OR WINDOWS CAN BE DETERMINED ON SITE AS LONG AS THEY FALL BETWEEN BAYS (BETWEEN FULL FRAMES).

REF NOTE 3 FOR ROOF SHEATHING
REF NOTE 4 FOR WALL SHEATHING



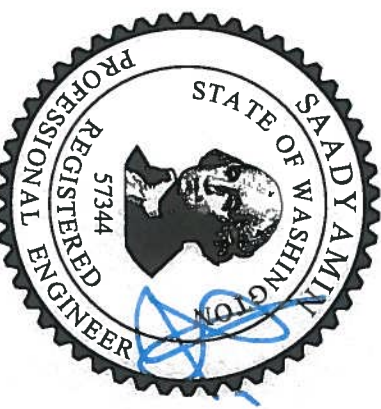
LOCATION: 2504 E MAIN AVE.
 PUYALLUP, WA 98372

SHEET TITLE: FOUNDATION PLAN:
 EXISTING CONCRETE SLAB

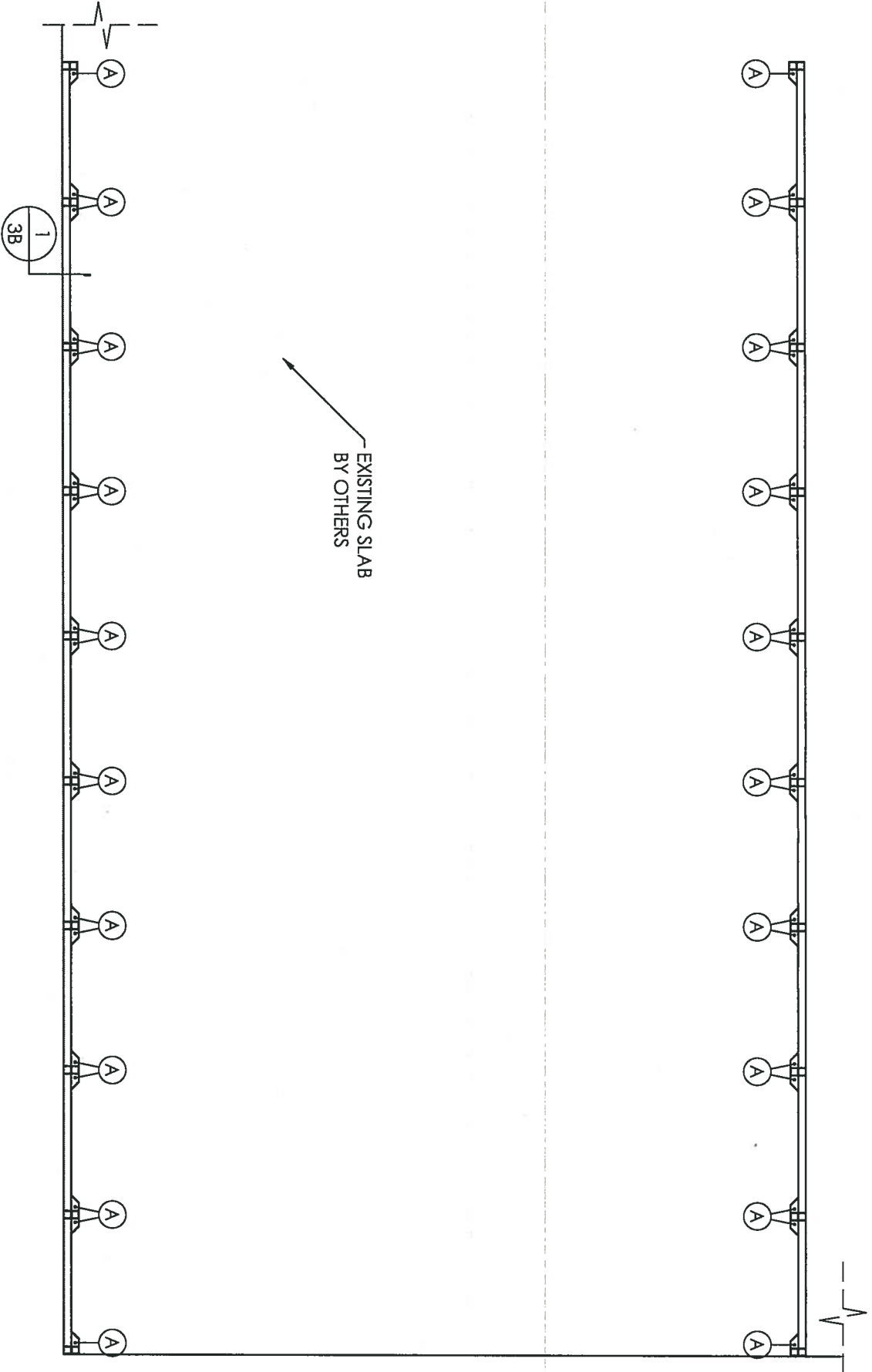
PROJECT TITLE: TODD THURNAU

METAL BUILDING MANUFACTURER

NORTHSIDE METAL CARPORTS, LLC
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 360-262-9354



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FOUNDATION PLAN
 SCALE: 1/4" = 1'

MEMBER PROPERTIES

BASE RAIL	2 1/2" SQ. X 14GA TUBE
COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
NEW ANCHOR 'A'	CONCRETE SLAB 1/20" X 7" LG. POWER-STUD+ SD1 EXPANSION ANCHOR (PER ESR 2818)

EXISTING FOUNDATION NOTES:

1. THE AS-BUILT / EXISTING FOUNDATION PLAN HAS BEEN PREPARED BASED INFORMATION PROVIDED BY CUSTOMER.
2. THE DESIGN AND REINFORCEMENT OF THE AS-BUILT / EXISTING SLAB DESIGN IS THE RESPONSIBILITY OF ORIGINAL DESIGNERS.
3. MIN. SLAB SIZE SHALL BE 20' X 35' TO ALLOW A MIN. OF 4" ANCHOR-TO-CONCRETE EDGE DISTANCE.
4. CONCRETE ANCHORS SHALL BE LOCATED AS SHOWN ON THE FOUNDATION PLAN WITH A MINIMUM OF (1) ANCHOR PER POST.
5. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
6. ASSUMED CONCRETE STRENGTH TO BE A MIN OF 2500 PSI @ 28 DAYS.

MEMBER PROPERTIES	
BASE RAIL	2 1/2" SQ. X 14GA TUBE
COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
CONCRETE SLAB	
NEW ANCHOR 'A'	1/2Ø" X 7" LG. POWER-STUD+ SD1 EXPANSION ANCHOR (PER ESR 2818)

ANCHORAGE NOTES:

1. ANCHOR INSTALLATION REQUIREMENTS:

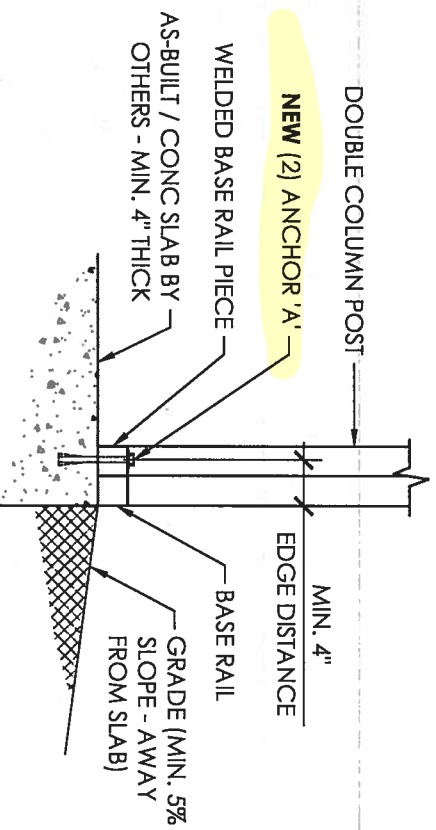
- MIN. ANCHOR EDGE DISTANCE: 4.00"
- MIN. ANCHOR HOLE DEPTH: 4.50"
- MIN. CONCRETE EMBEDMENT DEPTH: 3.754"
- MIN. EFFECTIVE EMBEDMENT: 3.25"
- MIN. SPACING BETWEEN (2) ANCHORS: 5.00"

2. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.

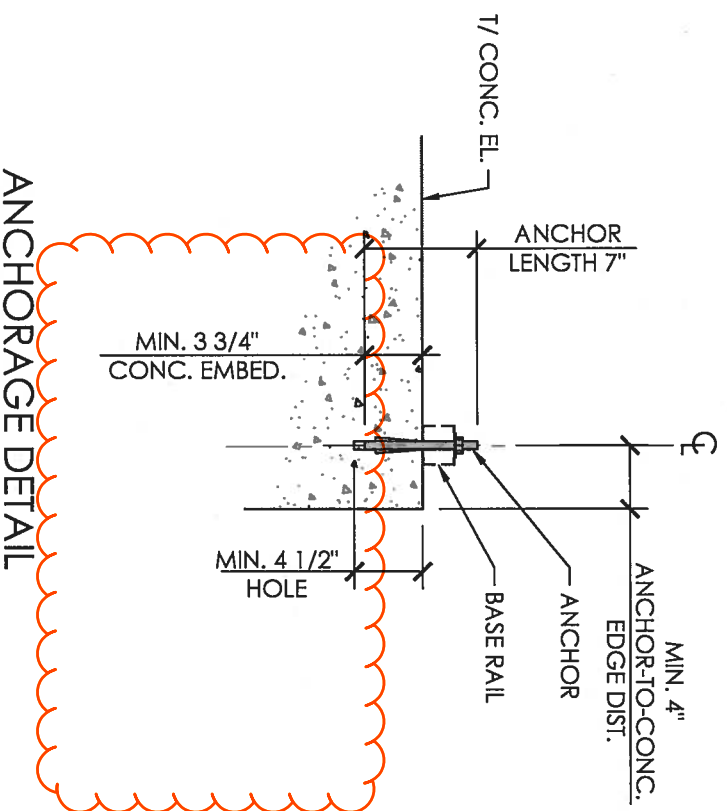
3. ALL ANCHORS TO BE A307 EQUIVALENT OR BETTER. ANCHORS TO BE INSTALLED PER MANUFACTURER'S REQ.

REINFORCEMENT NOTES:

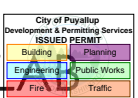
1. THE DESIGN AND SPECIFICATION OF AS-BUILT / EXISTING FOUNDATION REINFORCEMENT IS THE RESPONSIBILITY OF ORIGINAL DESIGNERS.



1 FOUNDATION DETAIL
SCALE: 3/4" : 1'



ANCHORAGE DETAIL
SCALE: 1" : 1'



**FOUNDATION DETAILS:
EXISTING CONCRETE SLAB**

SHEET TITLE:

PROJECT TITLE:

TODD THURNAU

LOCATION:

2504 E MAIN AVE.
PUYALLUP, WA 98372



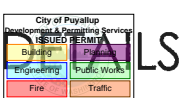
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MANUFACTURER



EXPIRES: 1/3/2024

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COLUMN LAYOUT PLAN & DETAILS

SHEET TITLE:

PROJECT TITLE:

TODD THURNAU

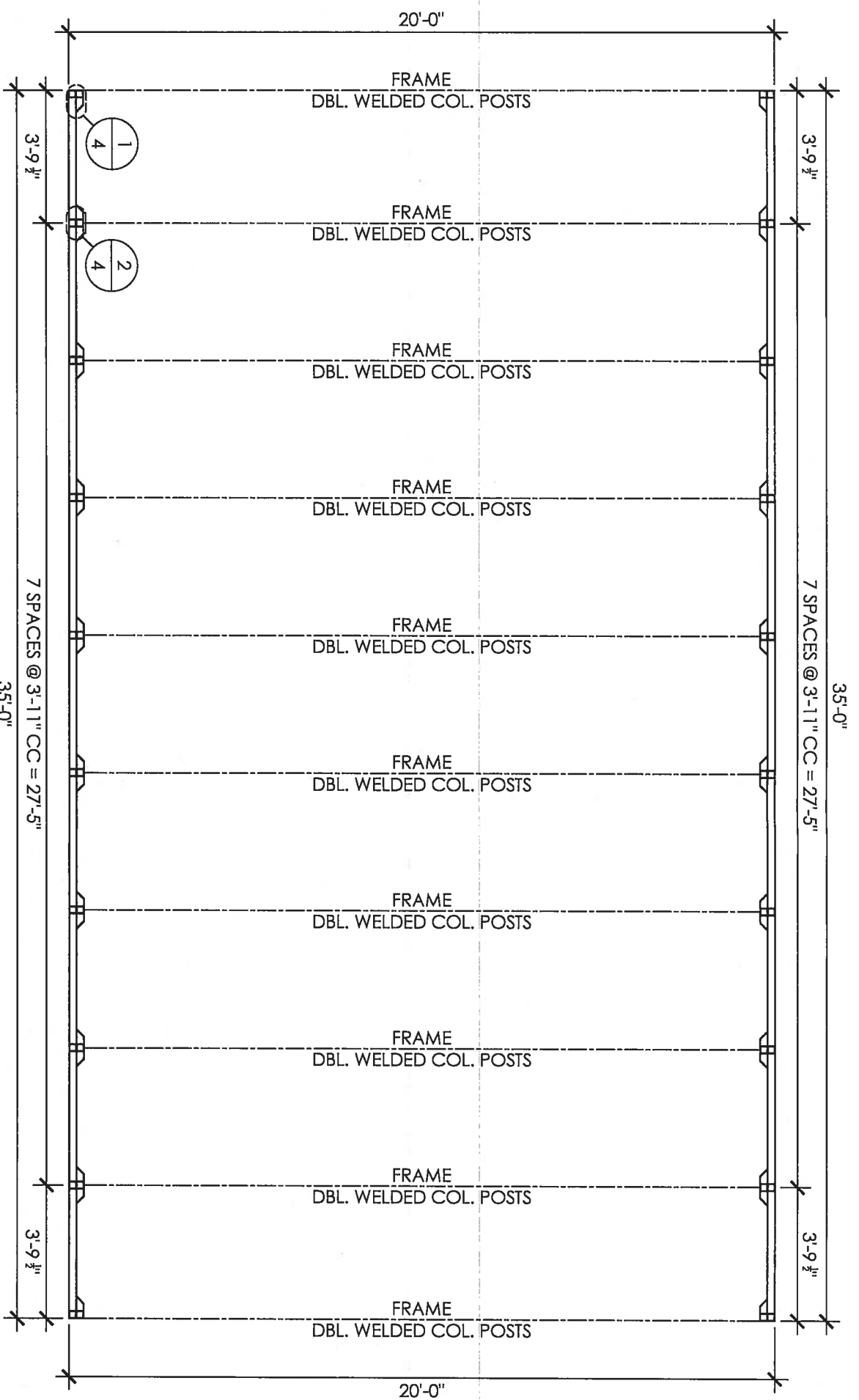
LOCATION:

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PUYALLUP, WA 98372

METAL BUILDING MANUFACTURER



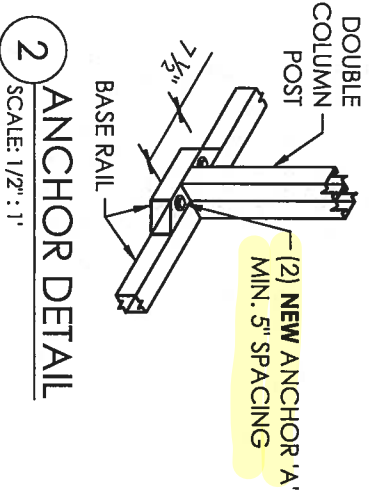
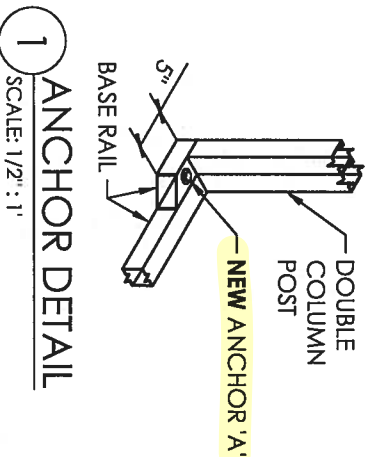
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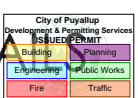
COLUMN LAYOUT PLAN

SCALE: 1/4" = 1'

NOTE:
SEE SHEET 3A / 3B FOR ANCHOR TYPE
SEE SHEET 5 FOR FRAME SECTION AND DETAILS



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LOCATION: 2504 E MAIN AVE. PUYALLUP, WA 98372

FRAME SECTION & DETAIL

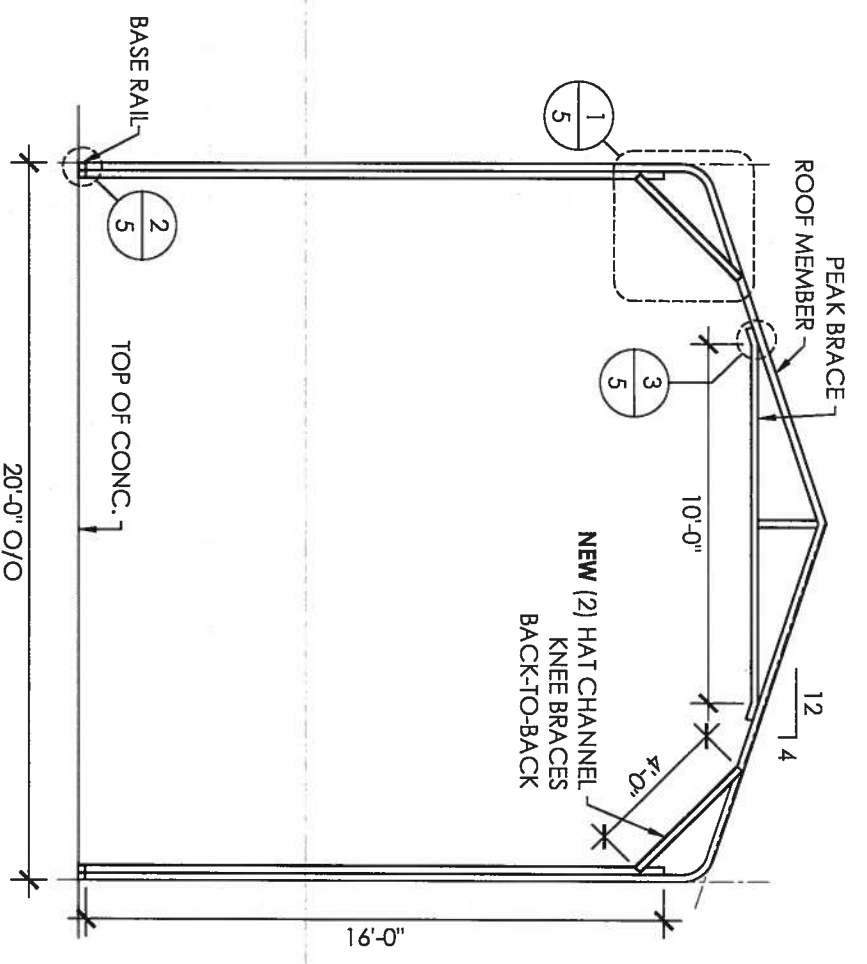
PROJECT TITLE: TODD THURNAU

SHEET TITLE:

METAL BUILDING MANUFACTURER



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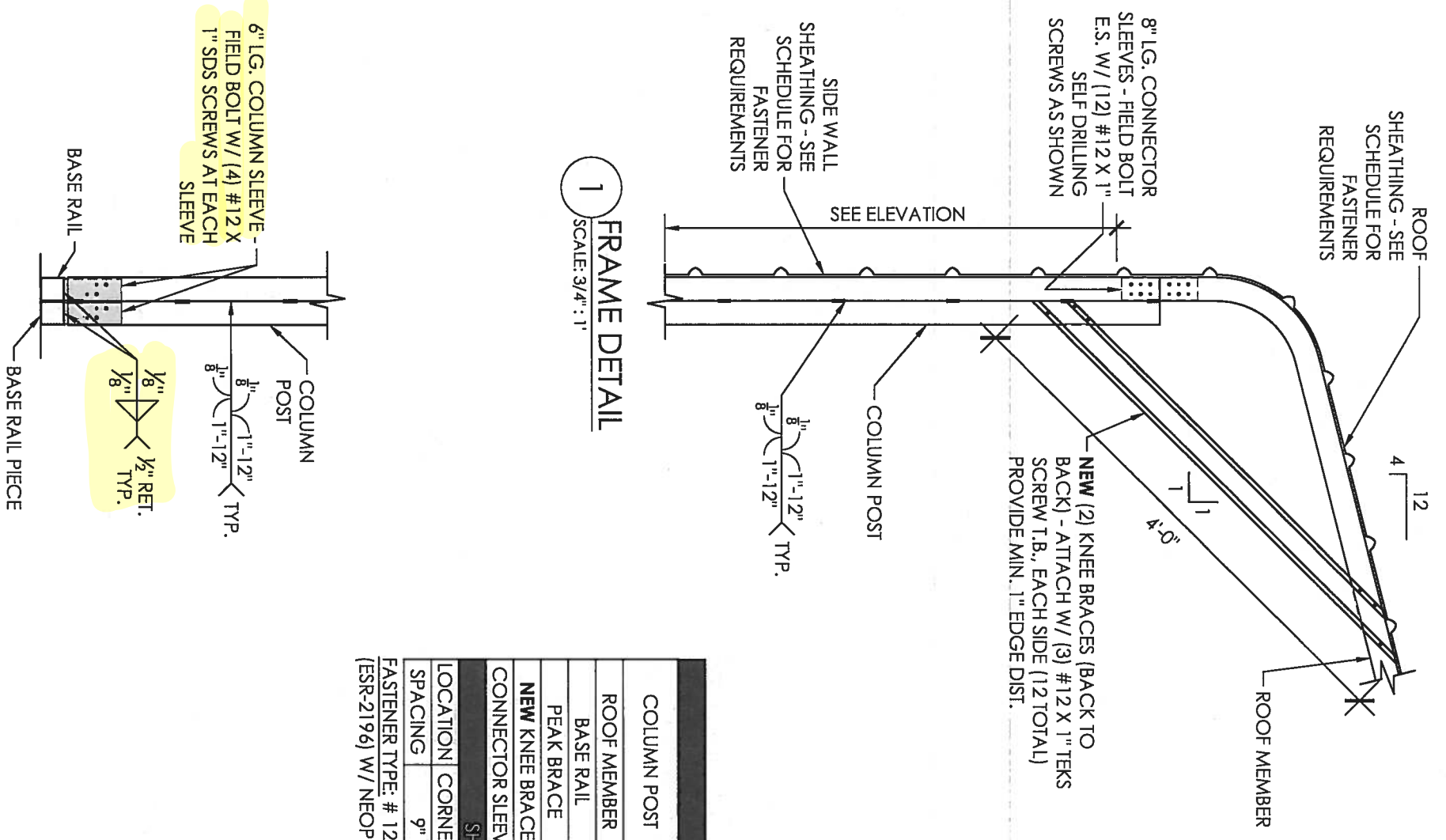
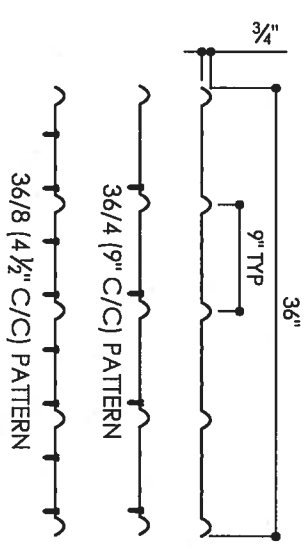


TYPICAL FRAME
SCALE: 3/16" : 1'

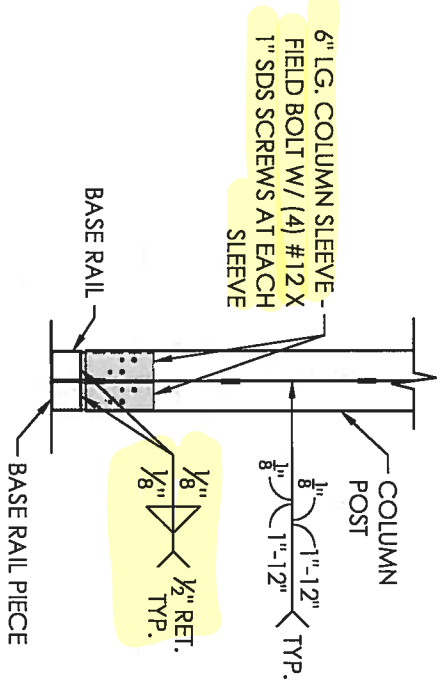
MEMBER PROPERTIES				
COLUMN POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED			
ROOF MEMBER	2 1/2" SQ. X 14GA TUBE			
BASE RAIL	2 1/2" SQ. X 14GA TUBE			
PEAK BRACE	2 1/2" SQ. X 14GA TUBE			
NEW KNEE BRACE	(2) 4" X 1" X 14GA HAT CHANNEL			
CONNECTOR SLEEVE	2 1/4" SQ. X 12GA TUBE			
SHEATHING FASTENER SCHEDULE				
LOCATION	CORNER PANEL	SIDE LAPS	EDGE LAPS	ELSEWHERE
SPACING	9" CC	MIN. 1	4 1/2" CC	9" CC

FASTENER TYPE: # 12X1" SELF-DRILL SCREWS (ESR-2196) W/ NEOPRENE/STEEL WASHER

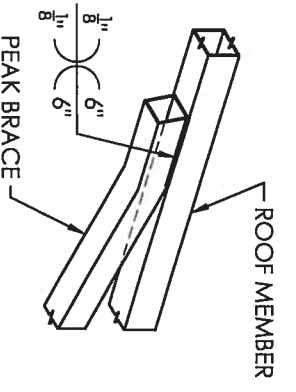
29GA. - 3/4" RIB - CORRUGATED SHEET
SCALE: 3/4" : 1'



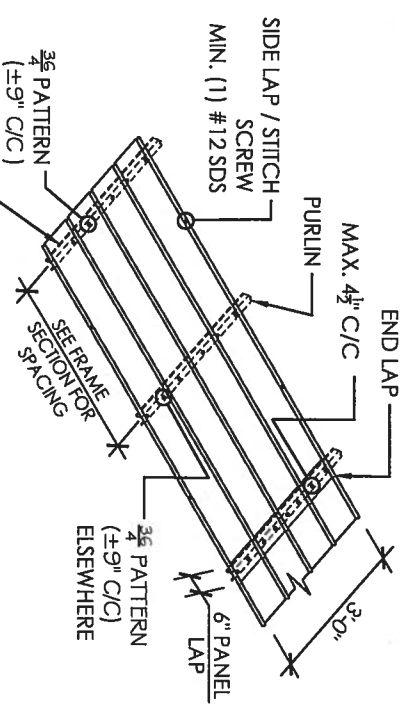
1 FRAME DETAIL
SCALE: 3/4" : 1'



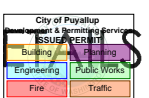
2 BASE DETAIL
SCALE: 3/4" : 1'



3 PEAK BRACE DETAIL
SCALE: 3/4" : 1'



SHEATHING FASTENER PATTERN
SCALE: 3/16" : 1'



LOCATION: **2504 E MAIN AVE. PUYALLUP, WA 98372**

SHEET TITLE: **SIDE WALL FRAMING & DETAILS**

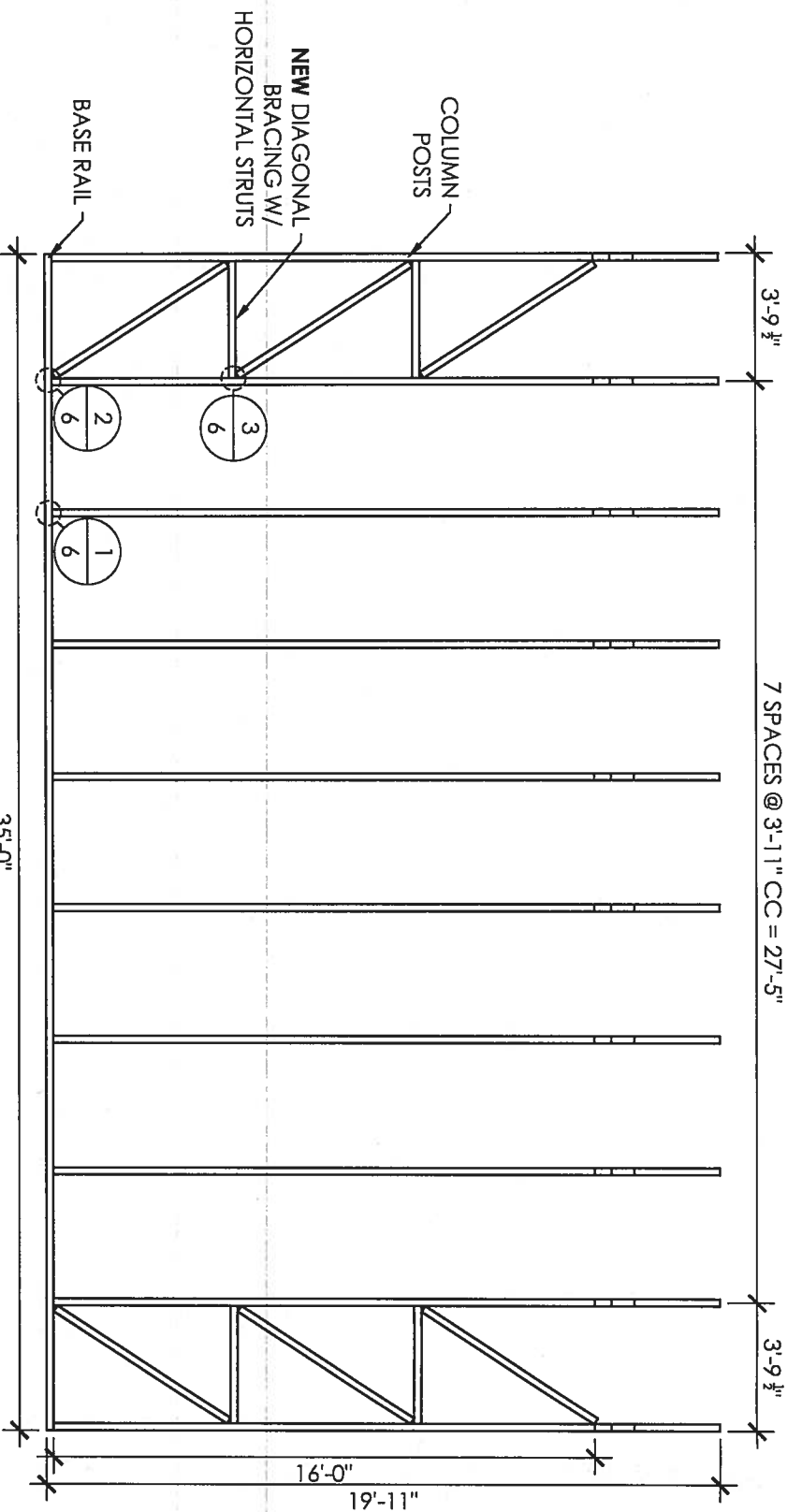
PROJECT TITLE: **TODD THURNAU**

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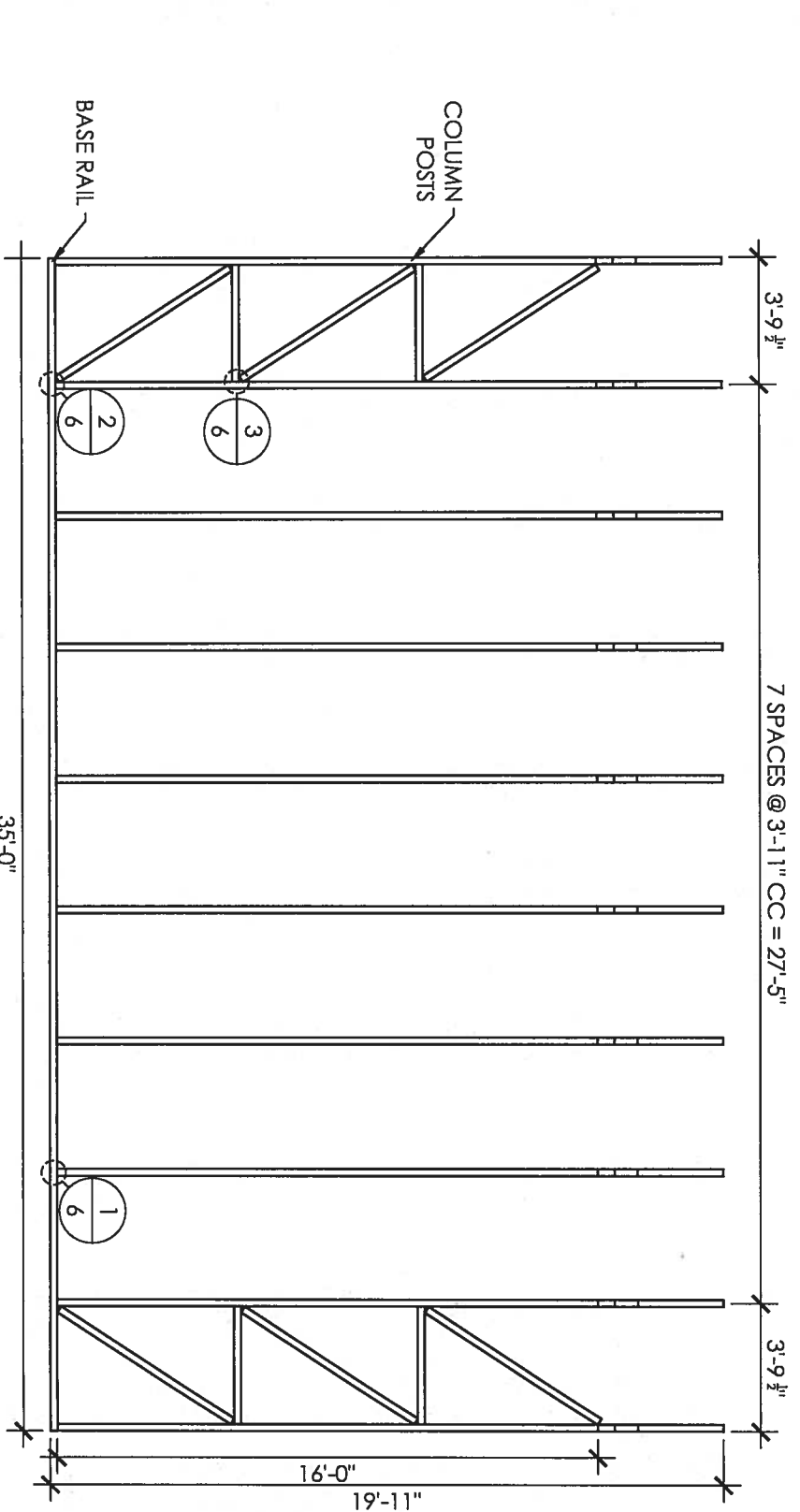
METAL BUILDING MANUFACTURER



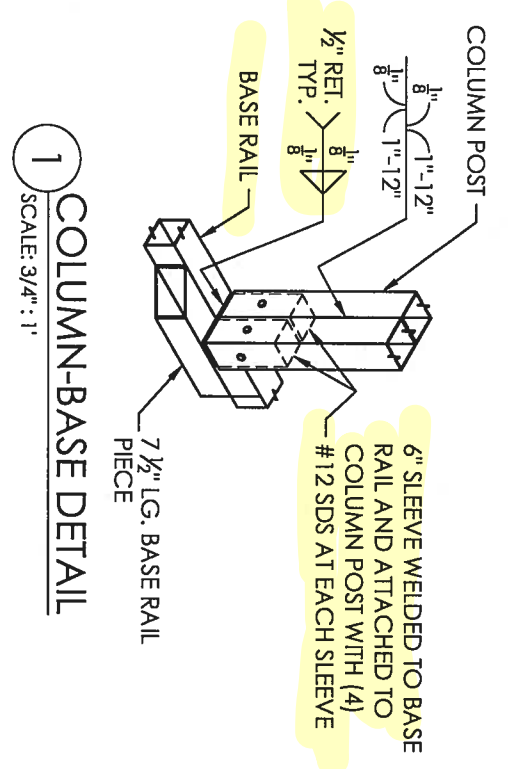
EXPIRES: **1/3/2024**
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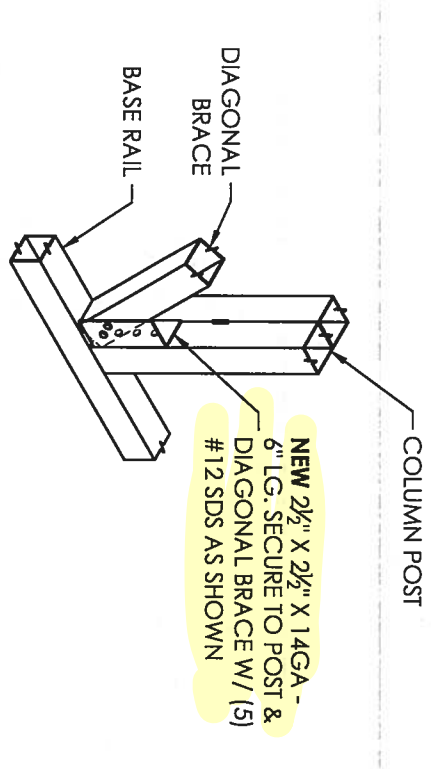
RIGHT SIDE WALL FRAMING
 SCALE: 3/16" : 1'



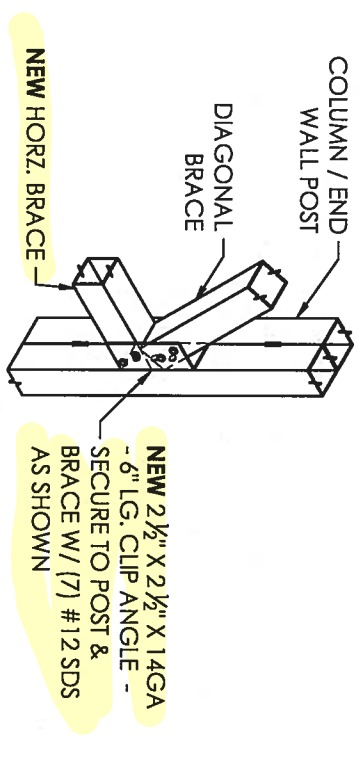
LEFT SIDE WALL FRAMING
 SCALE: 3/16" : 1'



1 COLUMN-BASE DETAIL
 SCALE: 3/4" : 1'



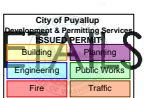
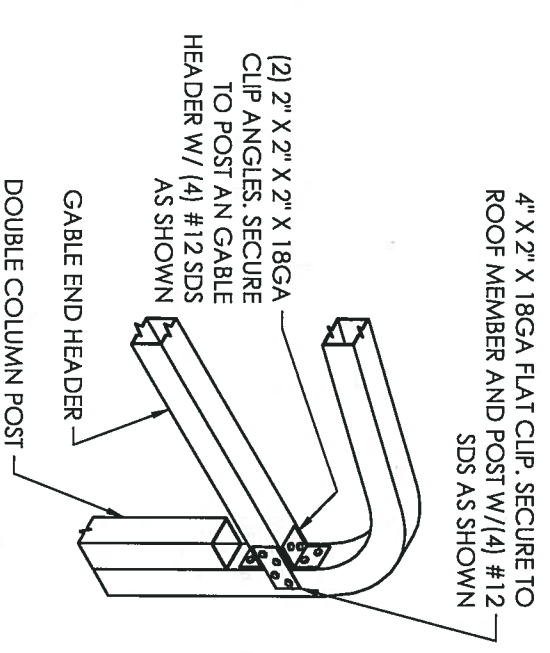
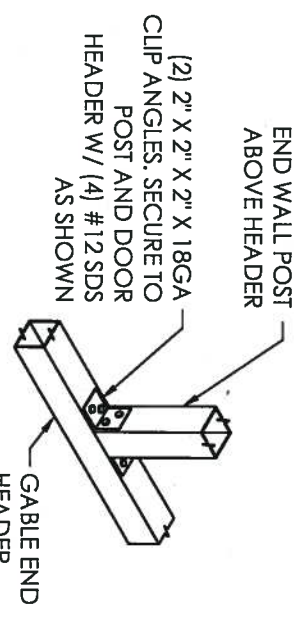
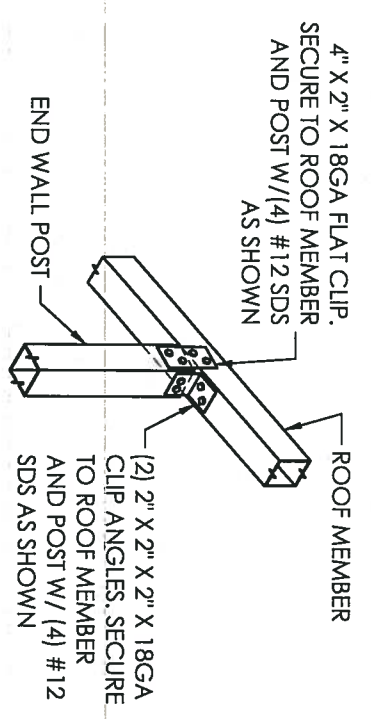
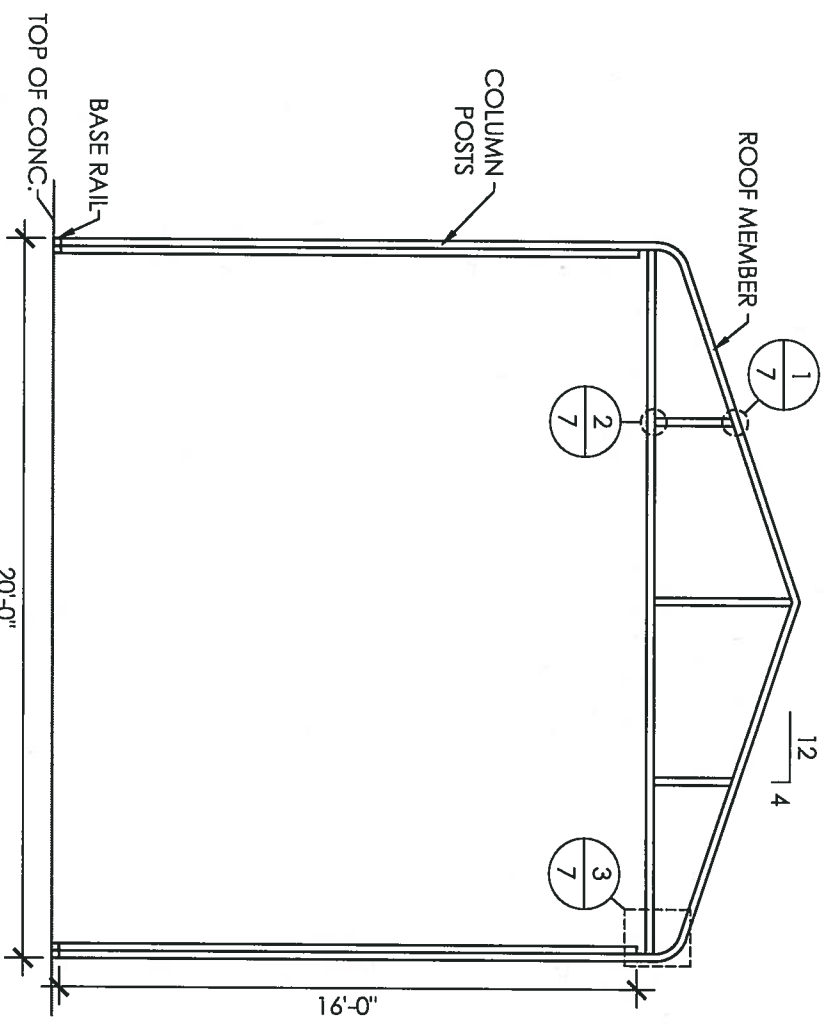
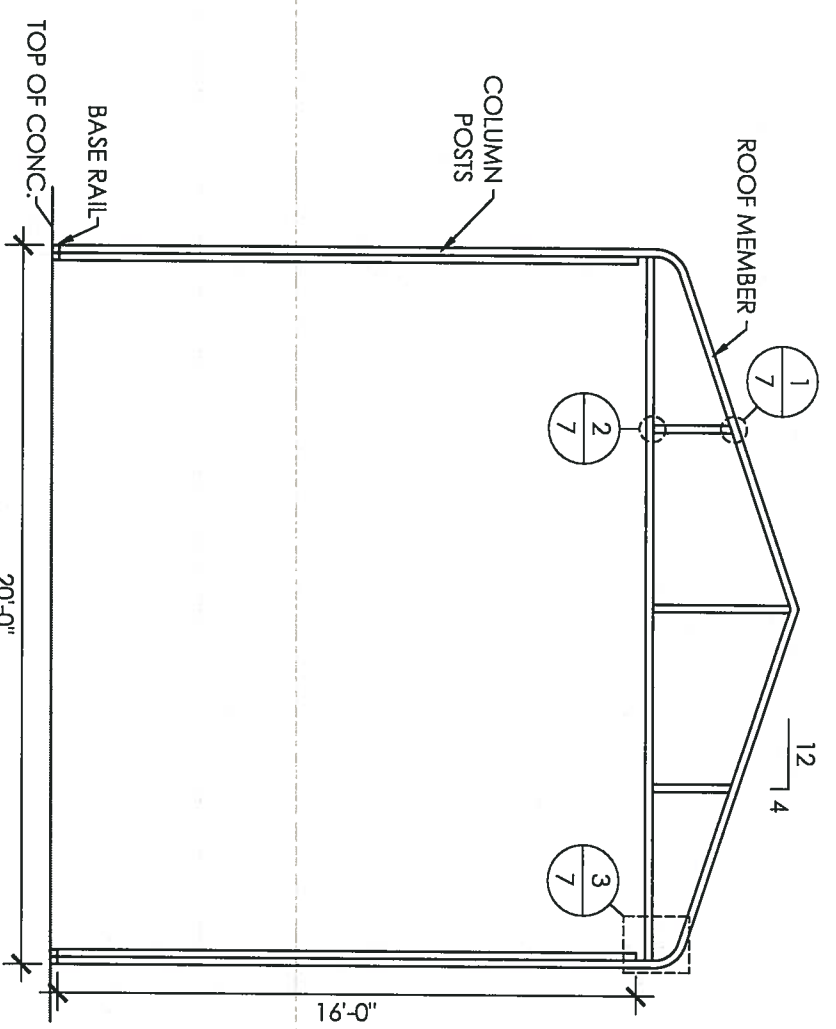
2 LATTICE BRACE DETAIL
 SCALE: 3/4" : 1'



3 LATTICE BRACE DETAIL
 SCALE: 3/4" : 1'

MEMBER PROPERTIES	
SIDE WALL POST	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
BASE RAIL	2 1/2" SQ. X 14GA TUBE
CONNECTOR SLEEVE	2 1/4" SQ. X 12GA TUBE
DIAGONAL BRACES	2" SQ. X 12GA TUBE
HORIZONTAL BRACES	2 1/4" SQ. X 14GA TUBE

MEMBER PROPERTIES	
ROOF MEMBER	2 1/2" SQ. X 14GA TUBE
BASE RAIL	2 1/2" SQ. X 14GA TUBE
GABLE END / CORNER POSTS	(2) 2 1/2" SQ. X 14GA TUBE - STITCH WELDED
DIAGONAL BRACES	2" SQ. X 12GA TUBE
HORIZONTAL BRACES	2 1/4" SQ. X 14GA TUBE



SHEET TITLE: END WALL FRAMING & DETAILS		LOCATION: 2504 E MAIN AVE. PUYALLUP, WA 98372
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