

## SUBMITTAL RESPONSE

# 08 - Revision 2

PROJECT NAME : PSE OTC

ZERVAS # 202202.06

Date Received :	07/10/2024	Date Returned to GC :	07/15/2024
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Item :	Joist & Metal Deck Shop Drawings
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Subcontractor / Supplier Name :	
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ARCHITECT'S REVIEW		RESPONSE REQUIRED OF CONTRACTOR	
No Exceptions Taken	<input type="checkbox"/>	Rejected	<input type="checkbox"/>
Note Markings	<input checked="" type="checkbox"/>	Comments Attached	<input checked="" type="checkbox"/>
		Confirm	<input type="checkbox"/>
		Re-Submit	<input type="checkbox"/>

Comments :

See structural, mechanical, and fire sprinkler reviews. GC to coordinate between steel, mechanical, and all other relevant submittals.

PRCNC20240216 - Revision #1  
 Shop drawings - This set will not replace the Approved plan set.  
 Note: as stated on this plans; this is for GC approval only. Not for field use.

The Architect's review is for checking for conformance with the design concept expressed in the Contract Documents. Review of such submittals is not conducted for determining the accuracy and completeness of other details such as dimensions and quantities or for substantiating instructions for installation or performance of equipment or systems. The Contractor shall not be relieved of responsibility for deviations or for errors of omissions in Shop Drawings, Product Data, Samples or similar submittals. The Architect's review shall not constitute approval of safety precautions or any construction means, methods, technique sequences or procedures. The Architect's approval of a specific item shall not indicate approval of an assembly of which the item is a component.

ZERVAS

**Matt Reeves**

DATE : **07/15/2024**

PRCNC20240216 - Revision #1  
 Shop drawings - This set will not replace the Approved plan set.  
 Note: as stated on this plans; this is for GC approval only. Not for field use.



# TRANSMITTAL FORM



9750 3rd Ave NE, Suite 250, Seattle, WA 98115  
 Phone: (206) 418-0235 FAX: (206) 418-0237

DATE:	7/10/2024	JOB NO:	24-011
ATTENTION:	<b>Matt Reeves</b>		
RE:	PSE Operational Training Center		

TO: **Zervas Group**  
 209 Prospect Street  
 Bellingham, WA, 98225

WE ARE SENDING YOU:  Attached  Under separate cover via \_\_\_\_\_ the following items:  
 Shop Drawing  Prints  Plans  Samples  
 Copy of Letter  Change Order  Specifications  Copies  
 Submittal

COPIES	DATE	NO.	DESCRIPTION
1	7/10/2024	24-011-008.2	Joist / Metal Deck Shop Drawings Revision 2

DUE DATE: 7/11/24

THESE ARE TRANSMITTED as checked below:

For approval  Approved as submitted  Resubmit 1 copies for approval  
 For your use  Approved as noted  Submit \_\_\_\_\_ copies for distribution  
 As requested  Returned for corrections  Return \_\_\_\_\_ signed contracts  
 For review & comment  \_\_\_\_\_  
 FOR BIDS DUE  RETURN PLANS TO PENNON OFFICE

REMARKS: \_\_\_\_\_  
 COPY TO \_\_\_\_\_ SIGNED **Jacob Brown**

**SUBMITTAL COMMENT**

APPROVED - NO EXCEPTIONS TAKEN.....[✓]  
 APPROVED ONLY WITH NOTED CORRECTIONS.....[ ]  
 NOT APPROVED - REVISE AND RESUBMIT.....[ ]

CHECKING IS ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT AND COMPLIANCE WITH CONTRACT DOCUMENTS  
 MACDONALD-MILLER FACILITY SOLUTIONS  
 SEATTLE, WASHINGTON  
 BY: Cornett Townsend, Lead Design Engineer - SSP DATE: 07/11/2024  
 COMMENTS: \_\_\_\_\_

**KINGWORKS STRUCTURAL ENGINEERS**

REVIEWED  REJECTED

NO EXCEPTIONS TAKEN  
 NOTE MARKINGS & REVISE  
 NOTE MARKINGS, REVISE & RESUBMIT

**Submittal review** by KW is limited to general conformance with the design intent and criteria of the Contract Documents. Corrections or comments made on the attached submittal do not relieve the Contractor from compliance with the Contract Documents unless specifically noted otherwise. Contractor is responsible for: confirming and correlating all quantities, dimensions, and elevations; selecting fabrication processes and techniques of construction; coordinating work with that of all other trades; and performing work in a safe and satisfactory manner. Where required to RESUBMIT, Contractor need only resubmit sheets that are affected by the marks or otherwise revised.

Date 7/10/24 By DL

**PATRIOT MARK UPS**  
07.11.24 RS

**SHOP DRAWING / SUBMITTAL REVIEW**

This review is for general conformance with the plans and specifications only. Approvals are subject to subcontractor's performance within the confines of the contract documents. Review of dimensions will not serve to relieve the subcontractor of contractual responsibility for any deviations from the contract requirements.

<input type="checkbox"/> Reviewed Without Comment	<input checked="" type="checkbox"/> Reviewed as Noted
<input type="checkbox"/> Field Measurement or Templates required prior to fabrication	<input type="checkbox"/> Rejected - Revise & Resubmit

PCCI Project # **24-011** Submittal # **008.2**

Reviewed By: **Jacob Brown** Date: **7/10/2024**

PENNON

CONSTRUCTION COMPANY, INC.

9750 3rd Ave NE  
 Suite 250  
 Seattle, WA 98115  
 P: 206-418-0235 - F: 206-418-0237

# 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 DELIVERY 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 OF 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.

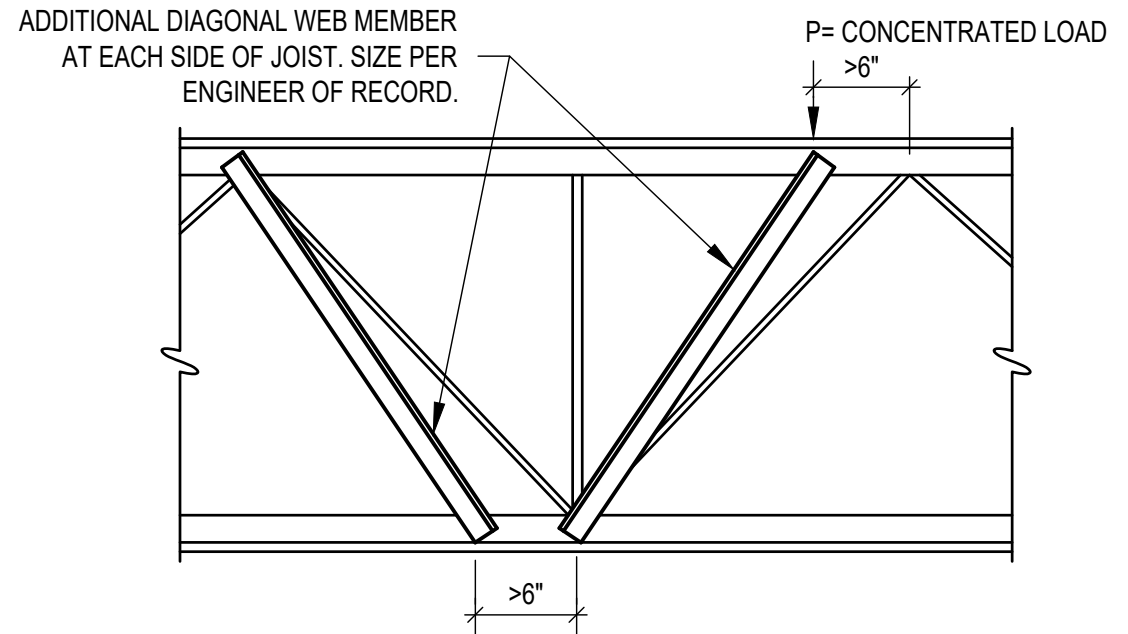
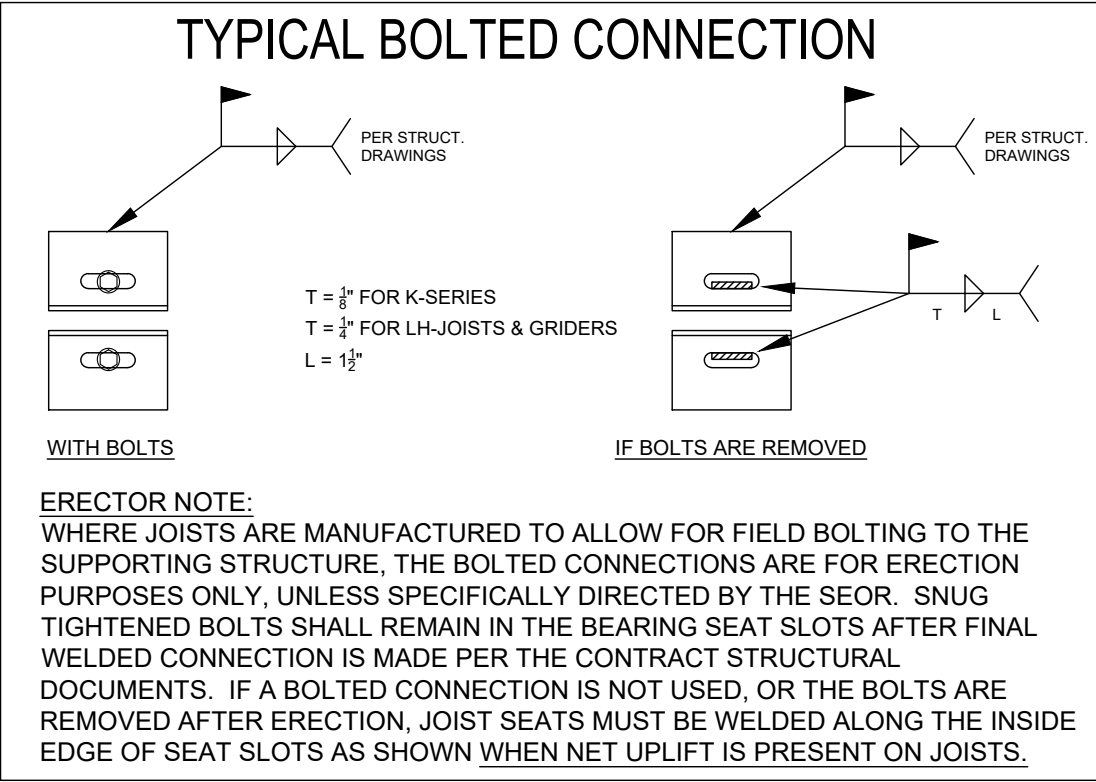
- M. JOIST GIRDERS:
  1. WHERE JOIST GIRDERS ARE SUPPLIED WITH SLOTS/HOLES IN THE BEARING SEATS, ALL ERECTION BOLTS AT EACH END SHALL BE INSTALLED AND TIGHTENED PER THE "AISC" SPECIFICATION. WHERE SLOTS ARE NOT SUPPLIED, JOIST GIRDER ENDS SHALL BE WELDED TO THE SUPPORTS.
  2. NO LOADS SHALL BE PLACED 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.

Required Special Inspections of Open-Web Steel Joists and Joist Girders per section 1705.2.3 of the 2021 Washington State Building Code. The final special inspection report must be on site during City inspections.



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.

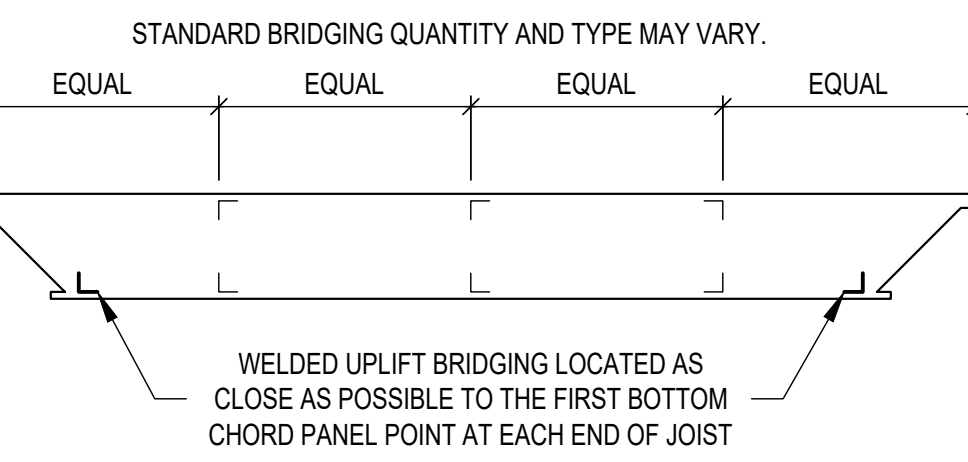
## SECTION AA

REF: S/SA.07

### 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.



## BRIDGING DIAGRAM

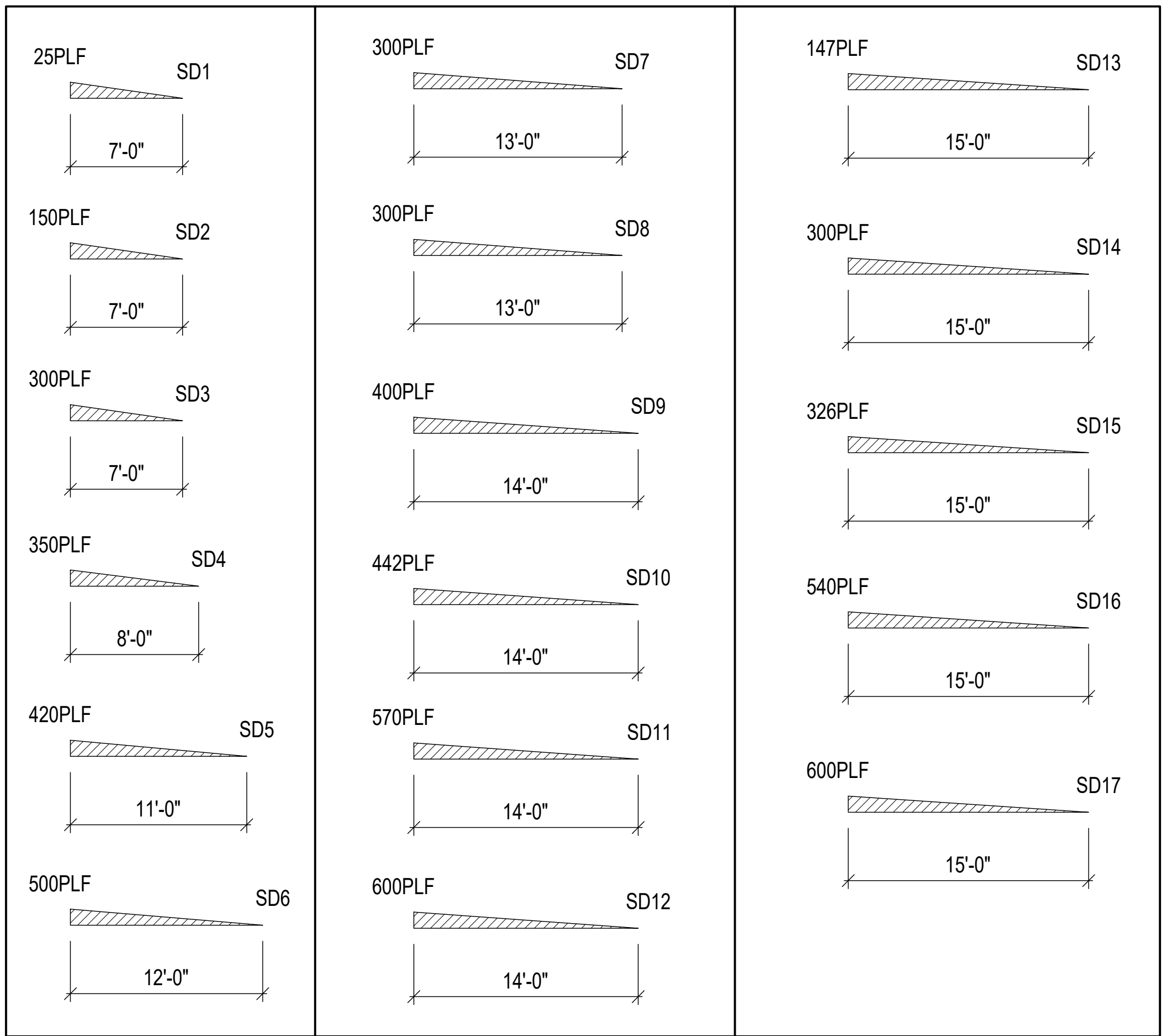
NOTE: UPLIFT BRIDGING IS REQUIRED ONLY WHERE SHOWN ON PLANS. SEE NOTE P.12

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)

PENNON  
NOTES  
IN BLUE

# FRAMING PLAN NOTES

1. JOIST AND GIRDERS 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 ( <math>\sphericalangle</math> ).
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 ( <math>\sphericalangle</math> ).
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)



STEEL ENCOUNTERERS  
INTERNATIONAL BUILDING CODE DESIGN PROFESSIONAL  
2000 N. COMMERCIAL BLVD. SUITE 300  
SAK  
PHOENIX, AZ 85004  
PHONE: (602) 271-8800  
FAX: (602) 271-8801  
WWW.STEELENCOUNTERERS.COM  
info@steelencounters.com

PSE TRAINING CENTER PUYALLUP  
PUYALLUP, WA  
PENNON CONSTRUCTION COMPANY INC.  
VERIFICATION OF DIMENSIONS, DETAILS, ETC. ARE REQUESTED WHERE INDICATED.  
MATERIAL WILL NOT BE RELEASED FOR FABRICATION WITHOUT EACH VERIFICATION ADDRESSED.  
GENERAL CONTRACTOR  
FOR APPROVAL ONLY  
NOT FOR FIELD USE  
VERIFICATION OF DIMENSIONS, DETAILS, ETC. ARE REQUESTED WHERE INDICATED.  
MATERIAL WILL NOT BE RELEASED FOR FABRICATION WITHOUT EACH VERIFICATION ADDRESSED.  
SEAL NO: 43423  
REGISTRATION # 05-100-0000

City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT  
Engineering Planning  
Public Works  
Fire Traffic

DATE	07/06/2024
FOR RESUBMITTAL	
APPROVAL DRAWINGS	88010204
DESIGNER	MARCOS MARTINEZ
CHECKED BY	GRAY
DATE	04/24/2024



J1  
GENERAL NOTES

MARK	ANGLE SIZE
A	L1 x 1 x 1/8"
C	L1.1/2 x 1.1/2 x 5/8"
D	L1.1/2 x 1.1/2 x 3/4"
E	L1.3/4 x 1.3/4 x 3/4"
F	L2 x 2 x 1/2"
G	L2.1/2 x 2.1/2 x 1/2"

PRCNC20240216 - Revision #1  
 Shop drawings - This set will not replace the Approved plan set.  
 Note: as stated on this plans; this is for GC approval only. Not for field use.

**DANGER**

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

- JOBS HAVE NOT BEEN DESIGNED FOR STABILITY OR TO SUPPORT YOUR WEIGHT WITHOUT BRACING.
- DO NOT WALK, STAND, OR ALLOW LOADS ON JOBS WITH INADEQUATE BRACING.
- ALWAYS USE FALL PROTECTION WHEN AT RISK OF FALLING. PRESENT AND FOLLOW ALL OSHA SAFETY REGULATIONS.
- JOBS AT OR NEAR VOLUMES ARE NOT DESIGNED TO SAFELY CARRY 2X OR 10X 707 LOADS.
- ALWAYS STABILIZE JOBS BEFORE RELEASING HOISTING CABLES using approved erection methods.

**FCU Dimensions:**

FCU 4-4: 12' x 3'-9"  
 FCU 4-5: 12' x 3'-9"  
 FCU 4-2: 12' x 3'-9"  
 FCU 1-1: 12' x 3'-9"  
 FCU 3-1: 12' x 3'-9"  
 FCU 3-2: 12' x 3'-9"  
 FCU 3-3: 12' x 3'-9"  
 FCU 3-4: 12' x 3'-9"  
 FCU 5-1: 12' x 3'-9"  
 FCU 2-3: 12' x 3'-9"

All FCU called out over 220 lbs verified to be in the correct location, Exhibit below clarifies further dimensions if necessary

# ROOF FRAMING PLAN- NORTH

REF: S2.04

## ROOF FRAMING NOTES

- COLOR CODE: RED.
- 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 CJ1 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 CJ1. 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 (---).

Correct Dimensions provided  
 Additional RTU Frame exhibit (Below) for correct dimensions

### APPROVERS CHECKLIST:

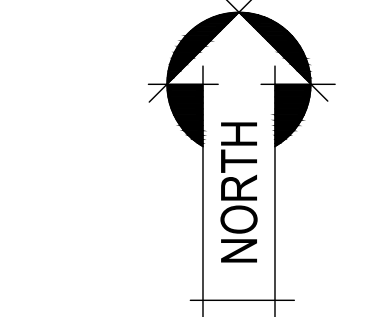
- 4 PLEASE VERIFY 7'-0" DIMENSION FROM GRIDS TO UP/DOWN LOAD DUE TO BRACING. IF THESE ARE OUGHT TO BE LOCATED AT FIRST PANEL POINT OR CLOSE TO IT, THE 7'-0" WOULD BE THE APPROXIMATED LOCATION. PANEL POINTS ARE NOT AVAILABLE UNTIL JOIST CONFIGURATION IS PREPARED AT FABRICATION TIME. **Acceptable per DL.**
- 5 PLEASE VERIFY UP/DOWN LOADS LOCATION FROM GRID C AS SHOWN. DIMENSIONS WERE SCALED FROM STEEL APPROVAL DRAWINGS. IF THESE ARE NOT CORRECT PLEASE PROVIDE SPECIFIC LOCATIONS. **Pennon will scale steel drawings back check EOR drawings to confirm locations. Design team to confirm Pennons approval/review.**
- 15 PLEASE VERIFY BRACING LOCATION FROM GRIDS A AND GRIDS 4 & 5 AS SHOWN. SOME DIMENSIONS WERE SCALED FROM STEEL APPROVAL DRAWINGS. IF THESE ARE NOT CORRECT, PLEASE PROVIDE SPECIFIC LOCATIONS. **DL to confirm locations**
- 16 PLEASE VERIFY LOADS LOCATIONS DUE TO SPRINKLERS HANGERS AND/OR CLAMPS ON JOISTS AS SHOWN. DIMENSIONS SHOWN WERE SCALED FROM PSE OTC-FP1 PLANS PROVIDED. IF THESE ARE NOT CORRECT PLEASE PROVIDE SPECIFIC LOCATIONS. **Run to confirm scale before lunch tomorrow.**

FAILURE TO ADDRESS QUESTIONS ON THIS SET OF "APPROVAL DRAWINGS" MAY RESULT IN DELAYS IN FABRICATION AND DELIVERY.

IF ANY OF THESE QUESTIONS ARE UNCLAR, PLEASE CALL ME (801) 478-8109.

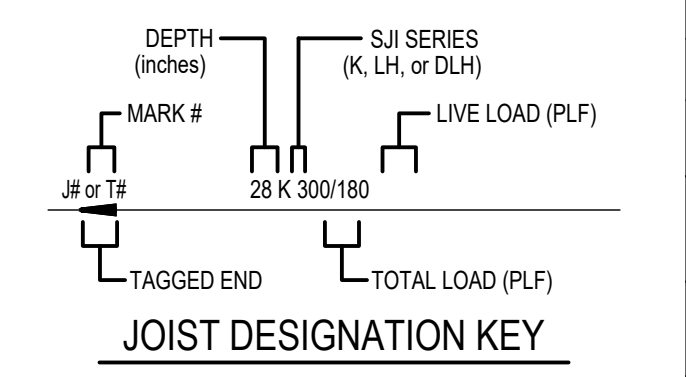
THANK YOU, MARCOS MARTINEZ

**PATRIOT MARK UPS**  
 07.11.24 RS



### ERECTOR NOTE

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



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

**STEELCOUNTERS**  
 INTERNATIONAL STRUCTURAL DIVISION  
 2000 COMMERCE WAY, SUITE 300  
 ST. LOUIS, MO 63103  
 PHONE: (314) 421-3000  
 FAX: (314) 421-3001  
 WWW.STEELCOUNTERS.COM  
 email: steelsales@steelcounters.com

**PSE TRAINING CENTER PUYALLUP**  
 PUYALLUP, WA  
 PENNON CONSTRUCTION COMPANY INC.  
 SEI JOB NO: 43423

**FOR APPROVAL ONLY**  
 NOT FOR FIELD USE  
 VERIFICATION OF DIMENSIONS, DETAILS, ETC. ARE REQUESTED WHERE INDICATED.  
 MATERIAL WILL NOT BE RELEASED FOR FABRICATION WITHOUT EACH VERIFICATION ADDRESS

City of Puyallup  
 Development & Permitting Services  
 ISSUED PERMIT

Building Planning  
 Engineering Public Works  
 Fire Traffic

NO.	DATE	DESCRIPTION
1	07/09/2024	FOR RESUBMITTAL
2	08/01/2024	APPROVAL DRAWINGS

DATE: 08/01/2024  
 DRAWN BY: MARCOS MARTINEZ  
 CHECKED BY: 11

**J2**

PRCNC20240216 - Revision #1  
 Shop drawings - This set will not replace the Approved plan set.  
 Note: as stated on this plans; this is for GC approval only. Not for field use.

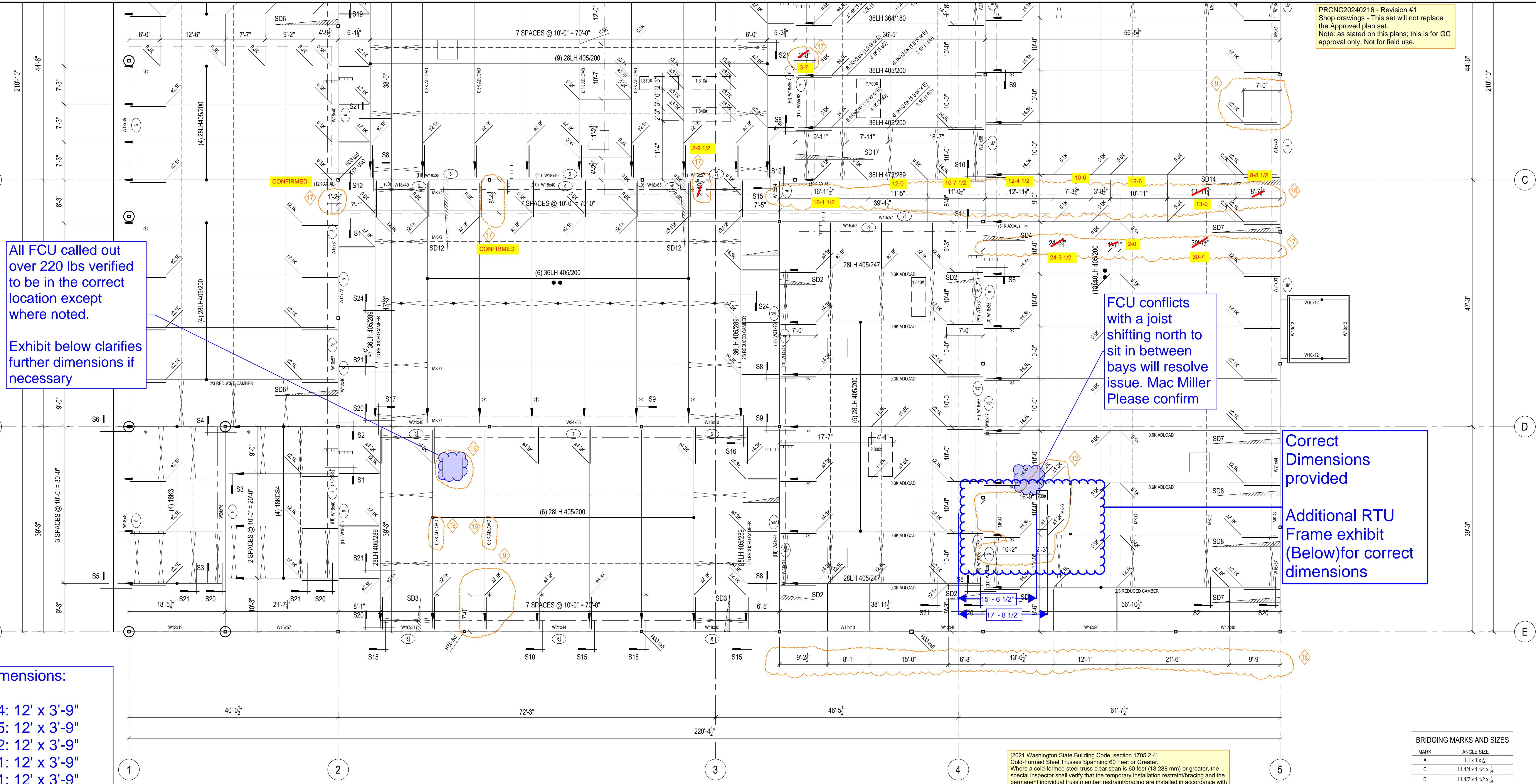
**STEELCOUNTERS**  
 WESTERN STRUCTURAL DIVISION  
 1200 WEST 10TH AVENUE  
 SPOKANE, WASHINGTON 99201  
 PHONE: (509) 325-1000  
 FAX: (509) 325-1001  
 WWW.STEELCOUNTERS.COM

**PSE TRAINING CENTER PUYALLUP**  
 PUYALLUP, WA  
 PENNON CONSTRUCTION COMPANY INC.  
 GENERAL CONTRACTOR  
 SEI JOB NO: 43423

**FOR APPROVAL ONLY**  
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 VERIFICATION OF DIMENSIONS, DETAILS, ETC. ARE REQUESTED WHERE INDICATED.  
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City of Puyallup  
 Development & Permitting Services  
 ISSUED PERMIT  
 Building Planning  
 Engineering Public Works  
 Fire Traffic

DATE: 08/01/2024  
 DESIGNED BY: MARCOS MARTINEZ  
 CHECKED BY: MARCOS MARTINEZ  
 04/24/2024  
 11  
**J3**



All FCU called out over 220 lbs verified to be in the correct location except where noted.  
 Exhibit below clarifies further dimensions if necessary

FCU conflicts with a joist shifting north to sit in between bays will resolve issue. Mac Miller Please confirm

Correct Dimensions provided  
 Additional RTU Frame exhibit (Below) for correct dimensions

- FCU Dimensions:**
- FCU 4-4: 12' x 3'-9"
  - FCU 4-5: 12' x 3'-9"
  - FCU 4-2: 12' x 3'-9"
  - FCU 1-1: 12' x 3'-9"
  - FCU 3-1: 12' x 3'-9"
  - FCU 3-2: 12' x 3'-9"
  - FCU 3-3: 12' x 3'-9"
  - FCU 3-4: 12' x 3'-9"
  - FCU 5-1: 12' x 3'-9"
  - FCU 2-3: 12' x 3'-9"

Required Special Inspections of Open-Web Steel Joists and Joist Girders per section 1705.2.3 of the 2021 Washington State Building Code. The final special inspection report must be on site during City inspections.

[2021 Washington State Building Code, section 1705.2.4]  
 Cold-Formed Steel Trusses Spanning 60 Feet or Greater.  
 Where a cold-formed steel truss clear span is 60 feet (18 288 mm) or greater, the special inspector shall verify that the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing are installed in accordance with the approved truss submittal package.

MARK	ANGLE SIZE
A	L1 x 1 1/2
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 C1 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 C1. 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 (-----).

### APPROVERS CHECKLIST:

- (KW 7/10/24) No objections → 16 PLEASE VERIFY 7'-0" DIMENSION FROM GRIDS TO UP/DOWN LOAD DUE TO BRACING. IF THESE ARE OUGHT TO BE LOCATED AT FIRST PANEL POINT OR CLOSE TO IT, THE 7'-0" WOULD BE THE APPROXIMATED LOCATION. PANEL POINTS ARE NOT AVAILABLE UNTIL JOIST CONFIGURATION IS PREPARED AT FABRICATION TIME.
- (KW 7/10/24) Pennon to coordinate with steel shops → 12 PLEASE VERIFY UP/DOWN LOADS LOCATION FROM GRID C AS SHOWN. DIMENSIONS WERE SCALED FROM STEEL APPROVAL DRAWINGS. IF THESE ARE NOT CORRECT PLEASE PROVIDE SPECIFIC LOCATIONS.
- (KW 7/10/24) Pennon/Patriot to confirm → 16 PLEASE VERIFY LOADS LOCATIONS DUE TO SPRINKLERS HANGERS AND/OR CLAMPS ON JOISTS AS SHOWN DIMENSIONS SHOWN WERE SCALED FROM PSE OTC-FP1 PLANS PROVIDED. IF THESE ARE NOT CORRECT PLEASE PROVIDE SPECIFIC LOCATIONS.
- (KW 7/10/24) Pennon/Patriot to confirm → 17 PLEASE VERIFY CLOUDED LOCATIONS FOR SPRINKLERS LINES CENTERLINE, CLAMPED ON JOISTS AND IN ORDER TO LOCATE LOADS ACCORDINGLY. VERIFY AND/OR PROVIDE LOCATIONS FROM GRIDS 2, C, 0, 4 & 5 AND OFF GRID 3 AS SHOWN. THESE LOCATIONS WERE SCALED FROM PSE OTC-FP1 PLANS PROVIDED. IF THESE ARE NOT CORRECT PLEASE PROVIDE SPECIFIC LOCATIONS.
- (KW 7/10/24) No objections → 18 PLEASE VERIFY BRACING LOCATION FROM GRID 5 AS SHOWN. THESE LOCATIONS WERE SCALED FROM STEEL APPROVAL DRAWINGS. IF THESE ARE NOT CORRECT, PLEASE PROVIDE SPECIFIC LOCATIONS.
- (KW 7/10/24) No objections to addnotes shown → 19 PLEASE VERIFY LOCATIONS FOR FCU HUNG UNITS AND JOISTS INVOLVED WITH NEW ADD LOAD OF 0.3K AS SHOWN (TYP.). PROVIDE OTHERWISE.

Pennon will scale steel drawings back check EOR drawings to confirm locations. Design team to confirm Pennons approval/review.

Ron to confirm scale before lunch tomorrow.

Ron to confirm scale before lunch tomorrow. All hangers connect to top cords, per RS

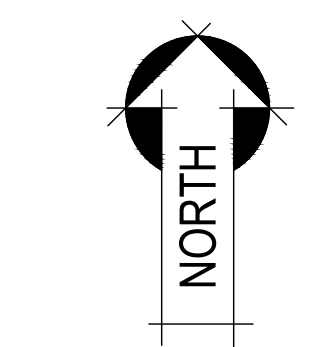
DL to confirm locations

FAILURE TO ADDRESS QUESTIONS ON THIS SET OF "APPROVAL DRAWINGS" MAY RESULT IN DELAYS IN FABRICATION AND DELIVERY.

IF ANY OF THESE QUESTIONS ARE UNCLEAR, PLEASE CALL ME (801) 478-8109.

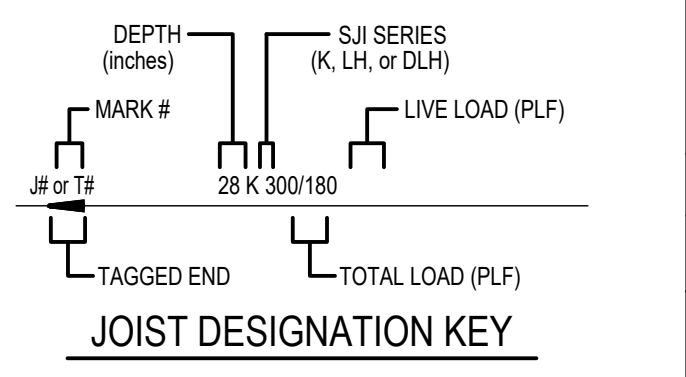
THANK YOU, MARCOS MARTINEZ

**PATRIOT MARK UPS**  
 07.11.24 RS



### ERECTOR NOTE

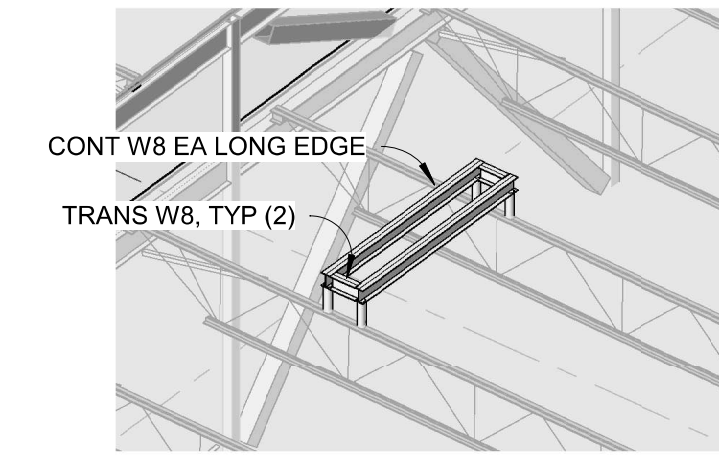
PLACE JOIST WITH TAGGED END AS INDICATED BY THE ARROW HEAD SYMBOL AT THE END OF MEMBER SHOWN ON THE ERECTION PLAN.



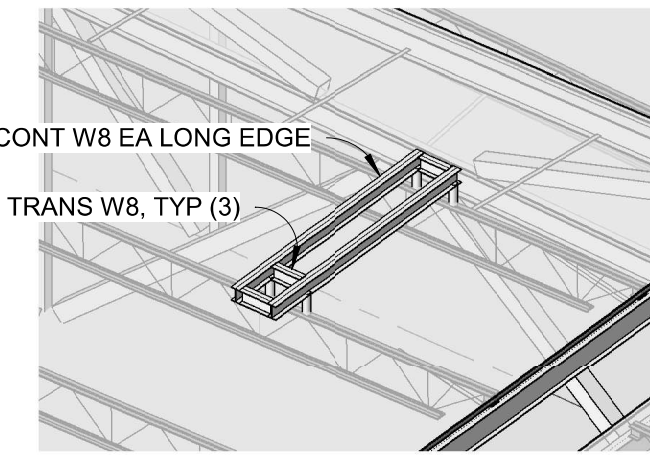
JOIST QUANTITIES:	
JOIST GIRDERS	0
SHORT SPAN	0
LONG SPAN	0
JOIST SUBSTITUTES	0



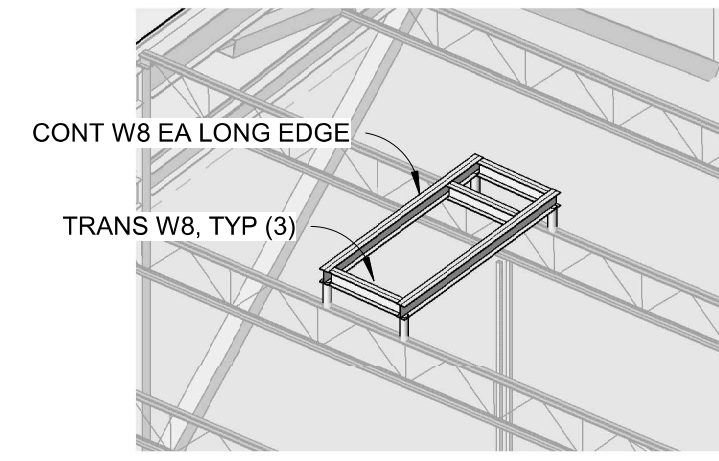




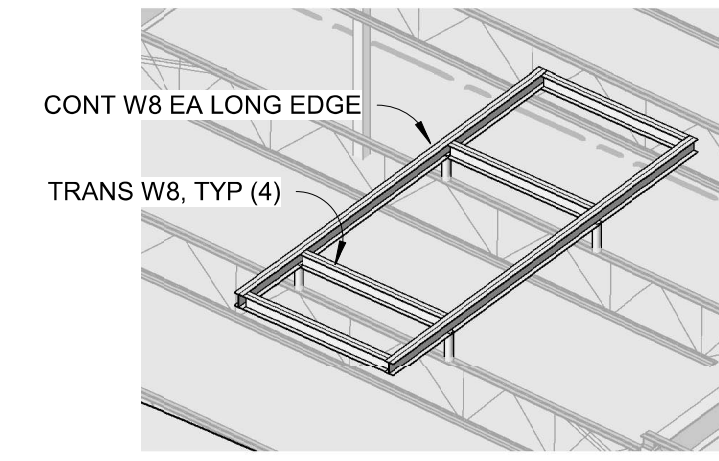
6 RTU FRAME SCHEMATIC - CU-R-05



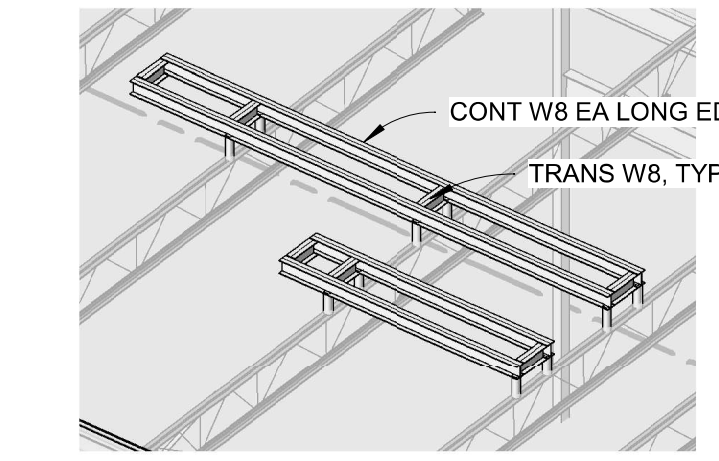
5 RTU FRAME SCHEMATIC - CU-R-03



4 RTU FRAME SCHEMATIC - MUA-R-01



3 RTU FRAME SCHEMATIC - DOAS-R-01

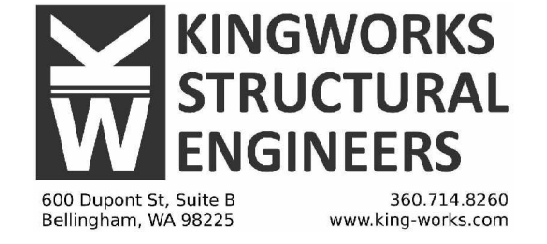


2 RTU FRAME SCHEMATIC - CU-R-01/04

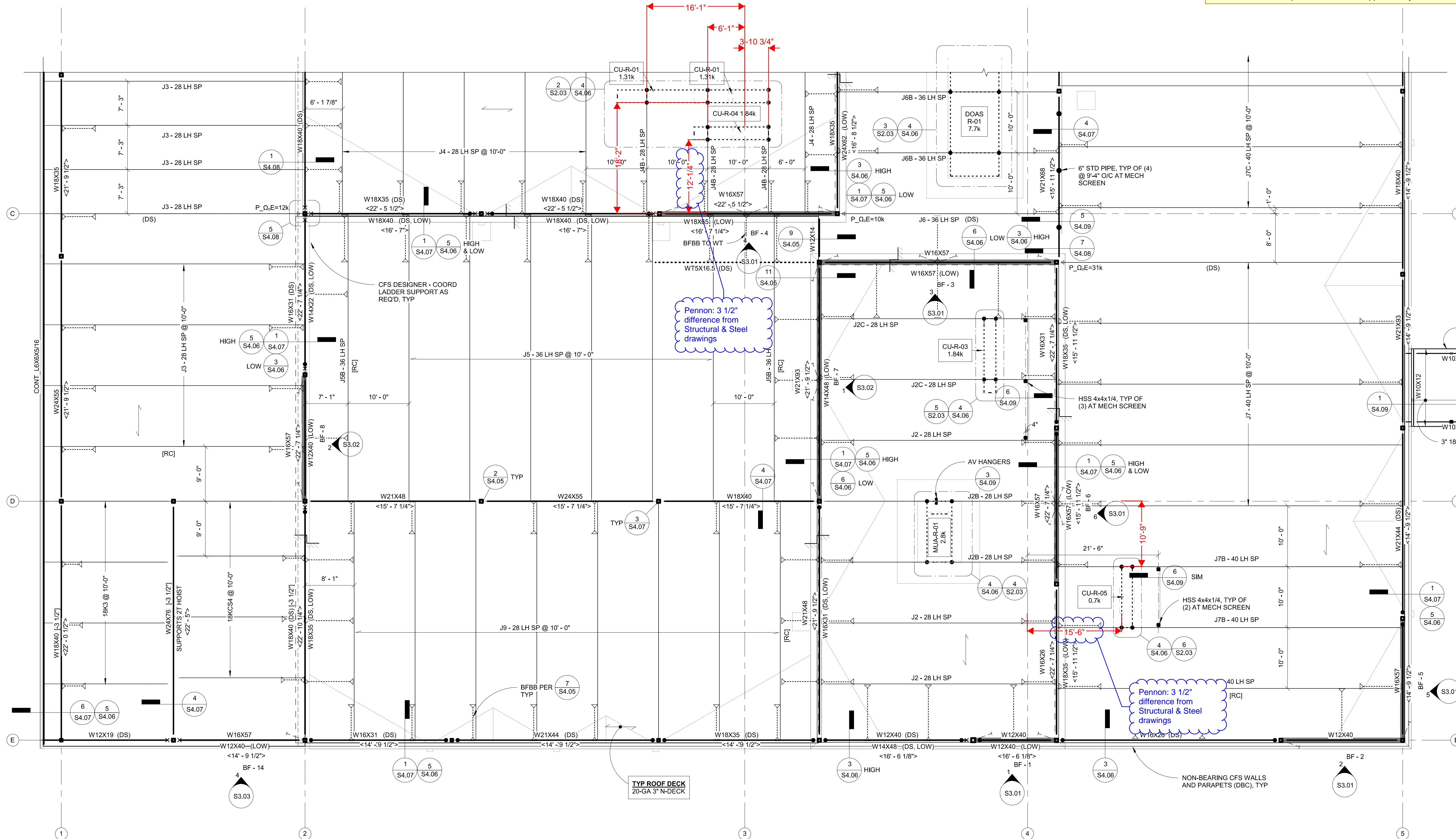
PRCNC20240216 - Revision #1  
Shop drawings - This set will not replace the Approved plan set.  
Note: as stated on this plans; this is for GC approval only. Not for field use.



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259 Prospect Street  
Bellingham, WA 98225  
360.734.4744



600 DuPont St., Suite B  
Bellingham, WA 98225  
360.714.8260  
www.king-works.com



Pennon: 3 1/2" difference from Structural & Steel drawings

Pennon: 3 1/2" difference from Structural & Steel drawings

TYP ROOF DECK  
20-GA 3" N-DECK

NON-BEARING CFS WALLS AND PARAPETS (DBC), TYP

SEE ARCH FOR CANOPY BM ELEVS  
W10X12  
W10X12  
3" 18-GA N-DECK

1 ROOF FRAMING PLAN - SOUTH  
1/8" = 1'-0"

Required Special Inspections of Open-Web Steel Joists and Joist Girders per section 1705.2.3 of the 2021 Washington State Building Code. The final special inspection report must be on site during City inspections.

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

100% CD SET

REV	ISSUED FOR	Date

PLAN NORTH  
TRUE NORTH

SCALE:  
1/8"=1'-0"

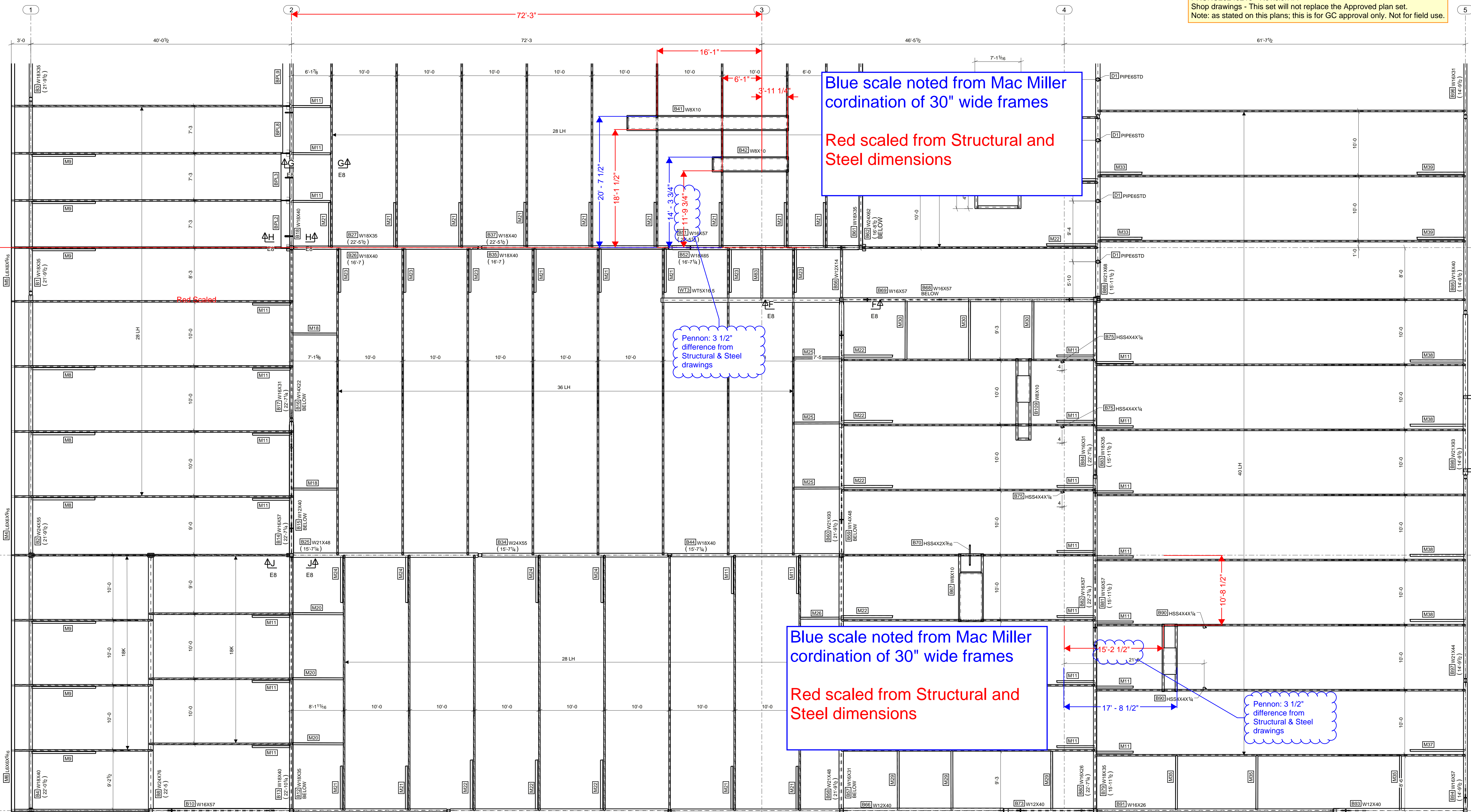
PSE - OPERATIONAL TRAINING CENTER

ROOF FRAMING PLAN - SOUTH

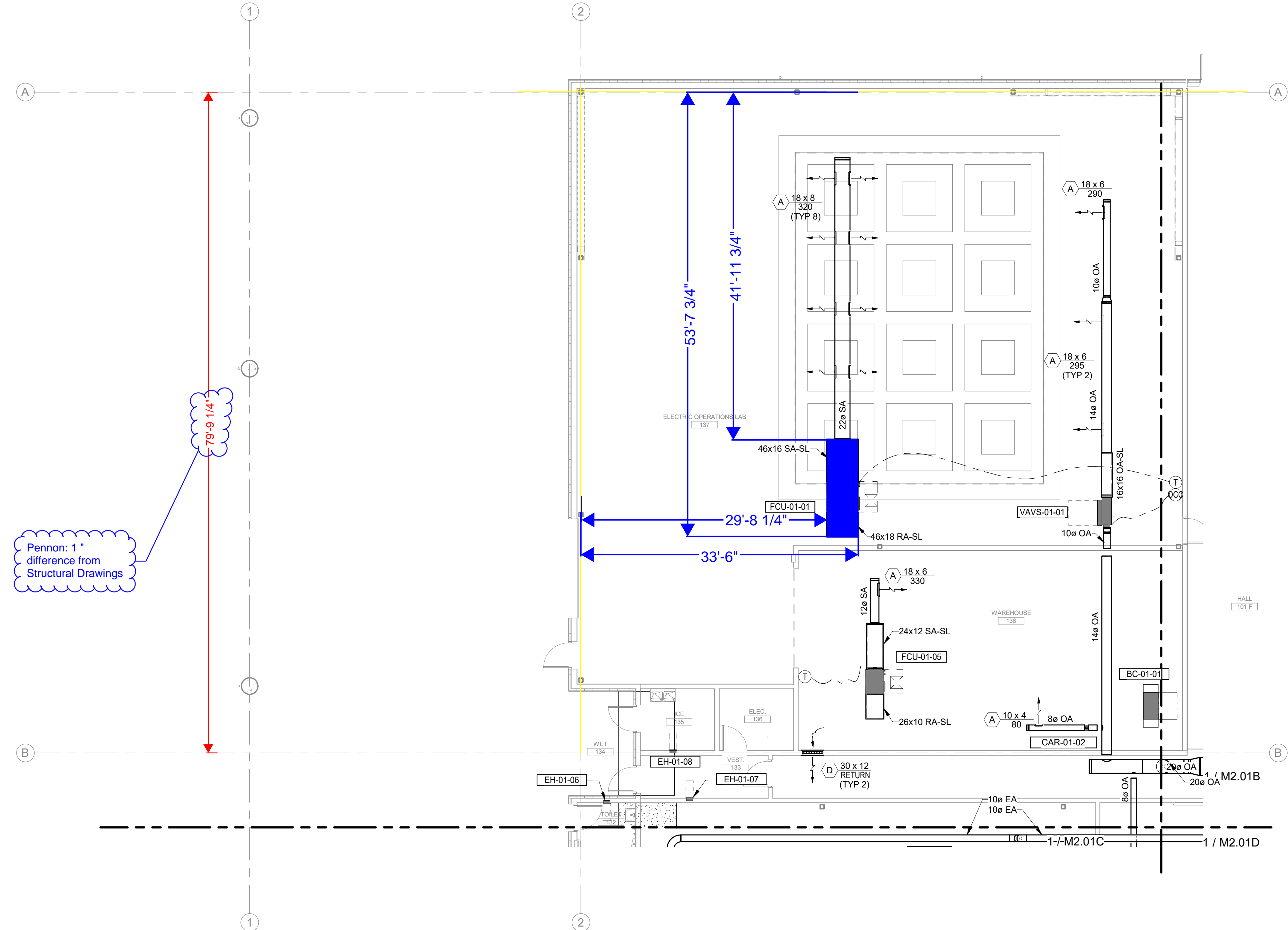
PROJECT#: 21239  
DRAWN BY: GK  
CHECKED BY: DL  
DATE ISSUED: 1/26/24

**S2.03**

PRINT: 1/22/2024 9:52:07 AM © 2024

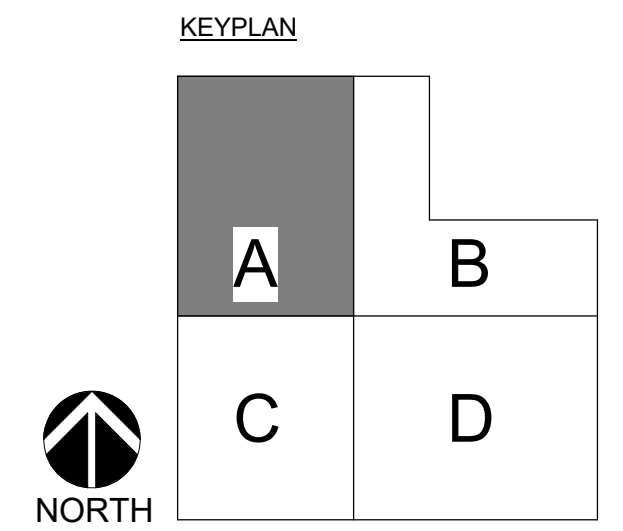


PRCNC20240216 - Revision #1  
 Shop drawings - This set will not replace the Approved plan set.  
 Note: as stated on this plans; this is for GC approval only. Not for field use.



Pennon: 1" difference from Structural Drawings

79'-9 1/4"



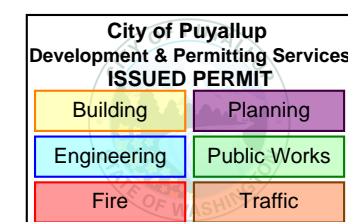
REVISIONS:	REVIT CLOUD DESCRIPTION:	DATE:
12/06/23		
09/22/23		
Permit Set		
100% Design Development		

**PSE - OPERATIONAL TRAINING CENTER**  
 325 TODD ROAD NW  
 PUYALLUP, WA 98371

**1ST FLOOR SECTOR MECHANICAL**  
 100% CD SET

ENGINEER: G. Townsend  
 CHECKED BY: G. Graham  
 BIM: A. Perez  
 PROJECT NUMBER: 7222-5111-00  
 SHEET NUMBER:

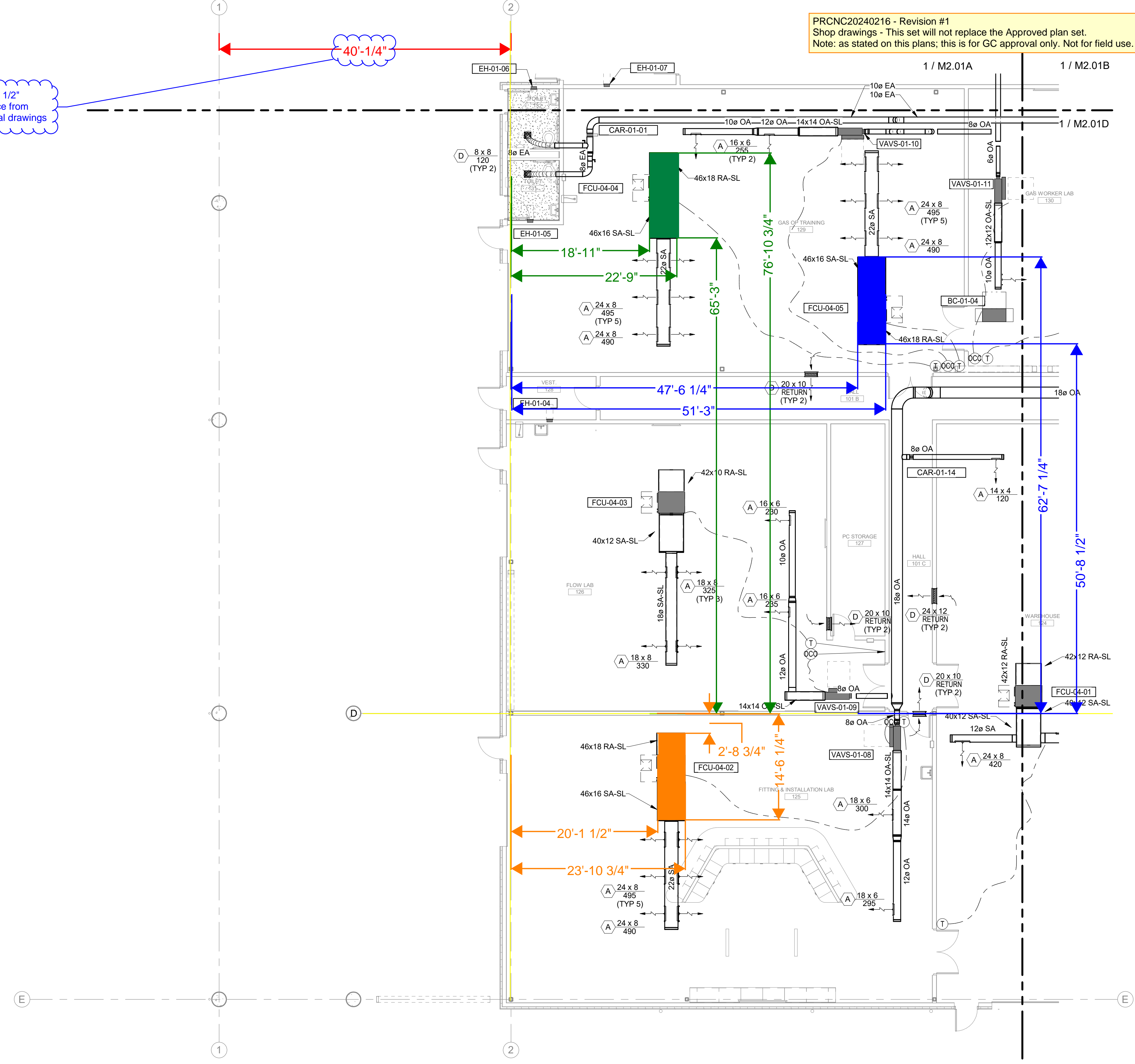
LAST REVISED: 1/26/2024  
 DATE PLOTTED: 1/26/2024  
 ISSUE DATE: 1/26/2024



**1 Level 01 - SHEETMETAL - SECTOR A**  
 SCALE: 1/8" = 1'-0"

Pennon: 1/2" difference from Structural drawings

PRCNC20240216 - Revision #1  
Shop drawings - This set will not replace the Approved plan set.  
Note: as stated on this plans; this is for GC approval only. Not for field use.



**MacDonald-Miller**  
FACILITY SOLUTIONS  
17930 Intl. Blvd. Suite, 120 Seat ac. WA 98188  
Phone: 206-763-9400 www.macmiller.com

REVISIONS:	REVISIT DESCRIPTION:	DATE:
12/06/23		09/22/23
Permit Set	100% Design Development	

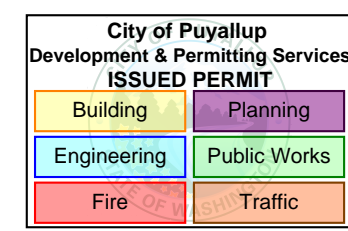
**PSE - OPERATIONAL TRAINING CENTER**  
325 TODD ROAD NW  
PUYALLUP, WA 98371

**1ST FLOOR SECTOR MECHANICAL**  
100% CD SET

ENGINEER: G. Townsend  
CHECKED BY: G. Graham  
BIM: A. Perez  
PROJECT NUMBER: 7222-5111-00  
SHEET NUMBER:

LAST REVISED: 1/26/2024  
DATE PLOTTED: 1/26/2024  
ISSUE DATE: 1/26/2024

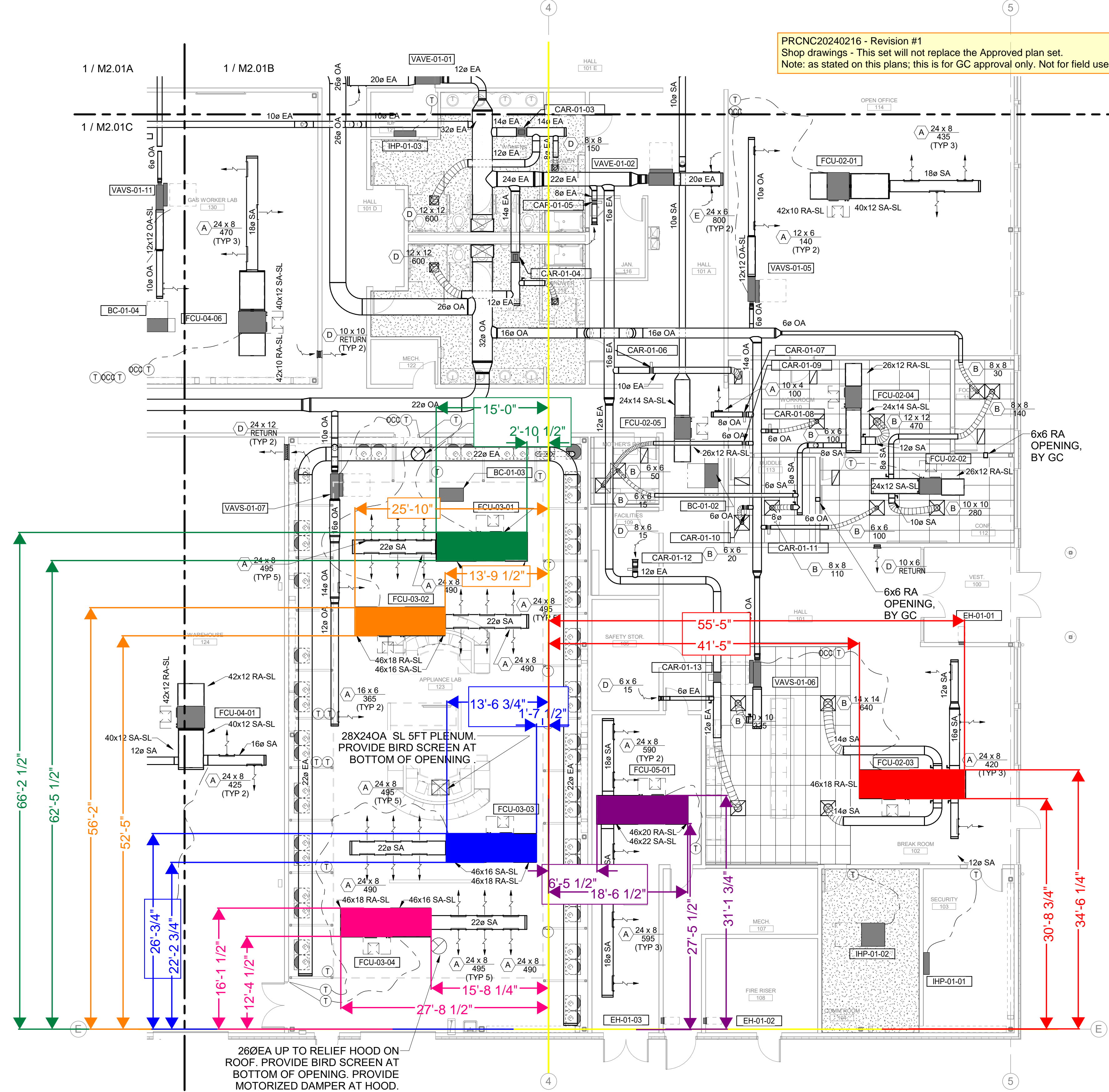
**M2.01C**



**3 Level 01 - SHEETMETAL - SECTOR C**  
SCALE: 1/8" = 1'-0"

PRCNC20240216 - Revision #1  
Shop drawings - This set will not replace the Approved plan set.  
Note: as stated on this plans; this is for GC approval only. Not for field use.

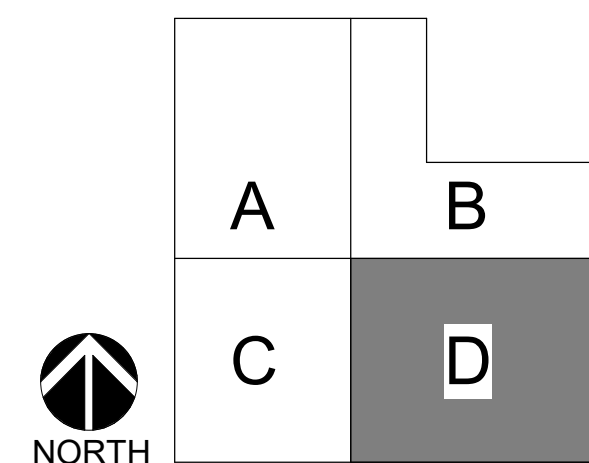
**MacDonald-Miller**  
FACILITY SOLUTIONS  
17930 Intl. Blvd. Suite 120 Seattle, WA 98188  
Phone: 206-763-9400 www.macmiller.com



GENERAL NOTES:  
1. FLUE VENTING IN GAS APPLIANCE LAB TO BE DURASEAL DSD MATERIAL. INSTALL PER MANUFACTURER'S REQUIREMENTS.

26øEA UP TO RELIEF HOOD ON ROOF. PROVIDE BIRD SCREEN AT BOTTOM OF OPENING. PROVIDE MOTORIZED DAMPER AT HOOD.

KEYPLAN



REVISIONS:	REVISIT DESCRIPTION:	DATE:
12/06/23		
09/22/23		
Permit Set		
100% Design Development		

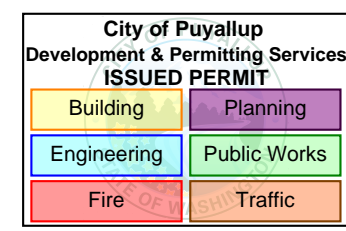
**PSE - OPERATIONAL TRAINING CENTER**  
325 TODD ROAD NW  
PUYALLUP, WA 98371

**1ST FLOOR SECTOR MECHANICAL**  
**MECHANICAL**  
100% CD SET

ENGINEER: G. Townsend  
CHECKED BY: G. Graham  
BIM: A. Perez  
PROJECT NUMBER: 7222-5111-00  
SHEET NUMBER:

LAST REVISED: 1/26/2024  
DATE PLOTTED: 1/26/2024  
ISSUE DATE: 1/26/2024

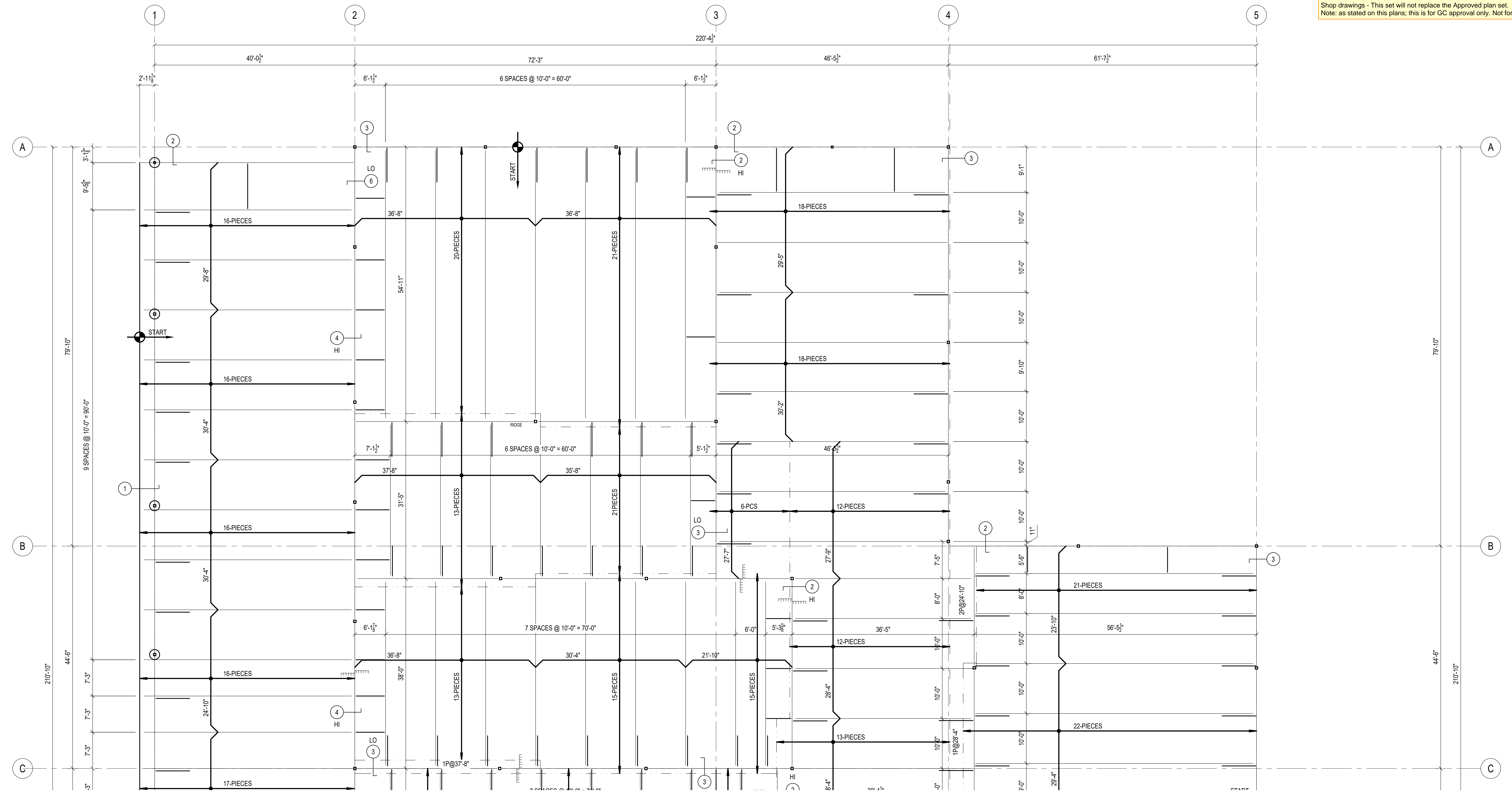
**M2.01D**



**3** Level 01 - SHEETMETAL - SECTOR D  
SCALE: 1/8" = 1'-0"

NO.	DATE	DESCRIPTION
1	07/06/2024	FOR RESUBMITTAL
2	08/01/2024	APPROVAL DRAWINGS

DESIGNED BY: **MARCOS MARTINEZ**  
 04/24/2024  
 CHECKED BY: **11**



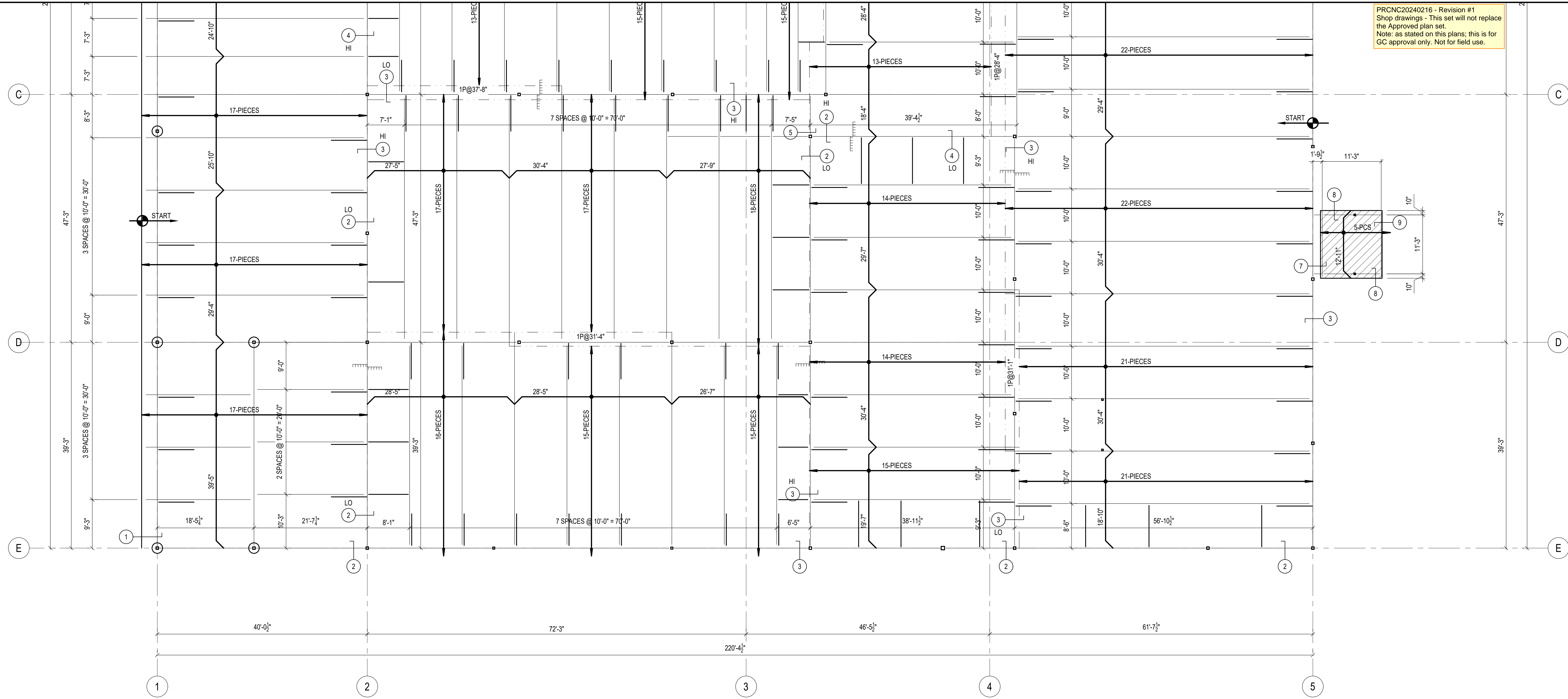
# ROOF DECK PLAN- NORTH

REF: S2.04

[2021 Washington State Building Code, section 1705.2.2]  
 Cold-Formed Steel Deck  
 Special inspections and qualification of welding special inspectors for cold-formed steel floor and roof deck shall be in accordance with the quality assurance inspection requirements of SDI QA/QC.

## ROOF DECK NOTES

- COVER WITH 3" DEEP, 20 GAUGE, TYPE: N ROOF DECK. FINISH TO BE: GALVANIZED (G-90).
- COLOR CODE: RED.
- SEE SHEET D3 FOR DECK NOTES AND DETAILS.
- ⬡ DENOTES DECK BUNDLE MARK.
- DECK TO BE FIELD CUT AT ALL OPENINGS.
- FIELD CUT DECK TO LENGTH WHEN REQUIRED.
- DO NOT PLACE DECK BUNDLES AT MID-SPAN OF JOIST OR GIRDERS.
- MONITOR DECK LAYOUT TO MAINTAIN COVERAGE WIDTH. DO NOT RIP DECK SHEETS LENGTHWISE & BEND DOWN TO FASTEN THE HIGH FLUTE TO PARALLEL SUPPORTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO RECEIVE, UNLOAD & INVENTORY MATERIALS UPON DELIVERY AT THE JOB SITE, TO CHECK FOR DAMAGE, AND TO VERIFY THAT QUANTITIES DELIVERED AGREE WITH CARRIER'S BILLS AND/OR MANUFACTURER'S PACKING LISTS.
- SITE STORAGE: STEEL DECK SHALL BE STORED OFF THE GROUND WITH ONE END ELEVATED TO PROVIDE DRAINAGE, AND SHALL BE PROTECTED FROM THE ELEMENTS WITH A WATERPROOF COVER, VENTILATED TO AVOID CONDENSATION. STEEL ENCOUNTERS SHALL NOT BE HELD LIABLE FOR DECK FINISH DETERIORATION DUE TO IMPROPERLY STORED MATERIALS OR MATERIALS EXPOSED TO WEATHER.



PRNC20240216 - Revision #1  
 Shop drawings - This set will not replace the Approved plan set.  
 Note: as stated on this plans; this is for GC approval only. Not for field use.

# ROOF DECK PLAN- SOUTH

REF: S2.03

[2021 Washington State Building Code, section 1705.2.2]  
 Cold-Formed Steel Deck  
 Special inspections and qualification of welding special inspectors for cold-formed steel floor and roof deck shall be in accordance with the quality assurance inspection requirements of SDI QA/QC.

## ROOF DECK NOTES

- COVER WITH 3" DEEP, 20 GAUGE, TYPE: N ROOF DECK. FINISH TO BE: GALVANIZED (G-90). INDICATED THUS:
- COVER WITH 3" DEEP, 18 GAUGE, TYPE: N ROOF DECK. FINISH TO BE: GALVANIZED (G-90). INDICATED THUS:
- COLOR CODE: BLUE.
- SEE SHEET D3 FOR DECK NOTES AND DETAILS.
- DENOTES DECK BUNDLE MARK.
- DECK TO BE FIELD CUT AT ALL OPENINGS.
- FIELD CUT DECK TO LENGTH WHEN REQUIRED.
- DO NOT PLACE DECK BUNDLES AT MID-SPAN OF JOIST OR GIRDERS.
- MONITOR DECK LAYOUT TO MAINTAIN COVERAGE WIDTH. DO NOT RIP DECK SHEETS LENGTHWISE & BEND DOWN TO FASTEN THE HIGH FLUTE TO PARALLEL SUPPORTS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO RECEIVE, UNLOAD & INVENTORY MATERIALS UPON DELIVERY AT THE JOB SITE. TO CHECK FOR DAMAGE, AND TO VERIFY THAT QUANTITIES DELIVERED AGREE WITH CARRIER'S BILLS AND/OR MANUFACTURER'S PACKING LISTS.
- SITE STORAGE: STEEL DECK SHALL BE STORED OFF THE GROUND WITH ONE END ELEVATED TO PROVIDE DRAINAGE, AND SHALL BE PROTECTED FROM THE ELEMENTS WITH A WATERPROOF COVER, VENTILATED TO AVOID CONDENSATION. STEEL ENCOUNTERS SHALL NOT BE HELD LIABLE FOR DECK FINISH DETERIORATION DUE TO IMPROPERLY STORED MATERIALS OR MATERIALS EXPOSED TO WEATHER.

**STEEL ENCOUNTERS**  
 NORTHWEST STRUCTURAL DIVISION  
 2001 COMMERCE WAY, SUITE 300  
 SEASIDE, WA 98138  
 PHONE: (206) 474-9300  
 FAX: (206) 474-9301  
 WWW.STEELENCOUNTERS.COM  
 steelencounters@steelencounters.com

**PSE TRAINING CENTER PUYALLUP**  
 PUYALLUP, WA  
 PENNCON CONSTRUCTION COMPANY INC.  
 SEE JOB NO. 43423

**FOR APPROVAL ONLY**  
 NOT FOR FIELD USE  
 VERIFICATION OF DIMENSIONS, DETAILS, ETC. ARE REQUESTED WHERE INDICATED.  
 MATERIAL WILL NOT BE RELEASED FOR FABRICATION WITHOUT EACH VERIFICATION-ADDRESSED

City of Puyallup  
 Development & Permitting Services  
 ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

DATE	07/06/2024
ISSUED BY	MARCOS MARTINEZ
FOR SUBMITTAL	
APPROVAL DRAWINGS	

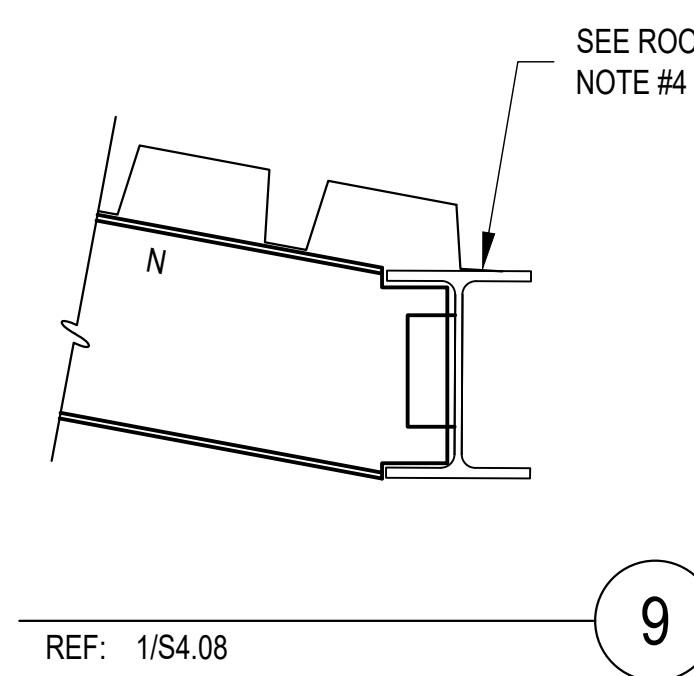
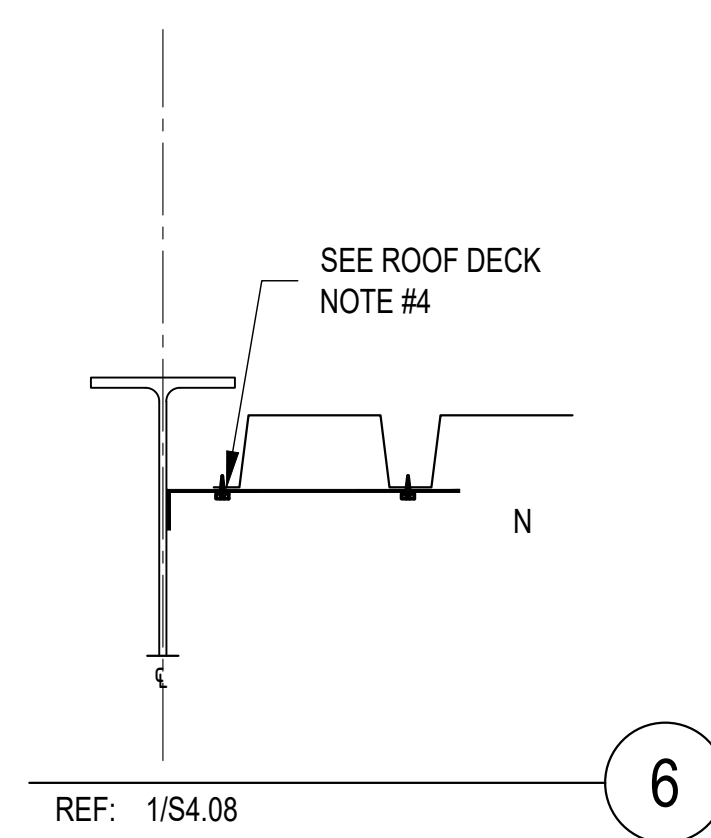
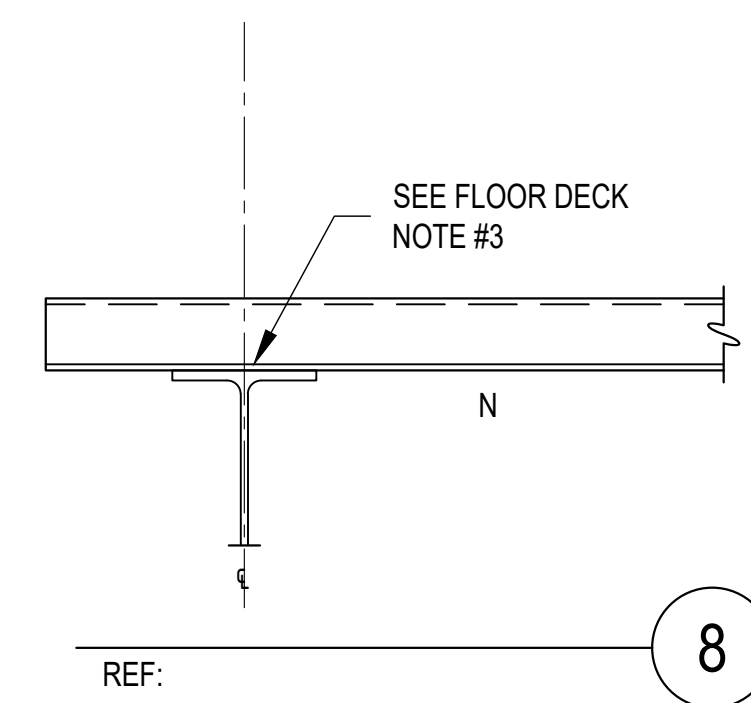
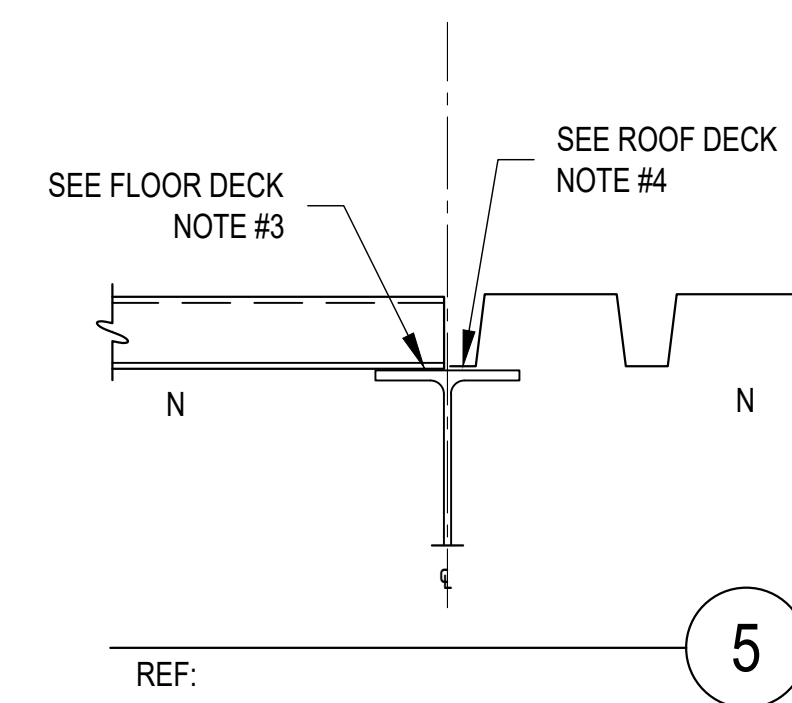
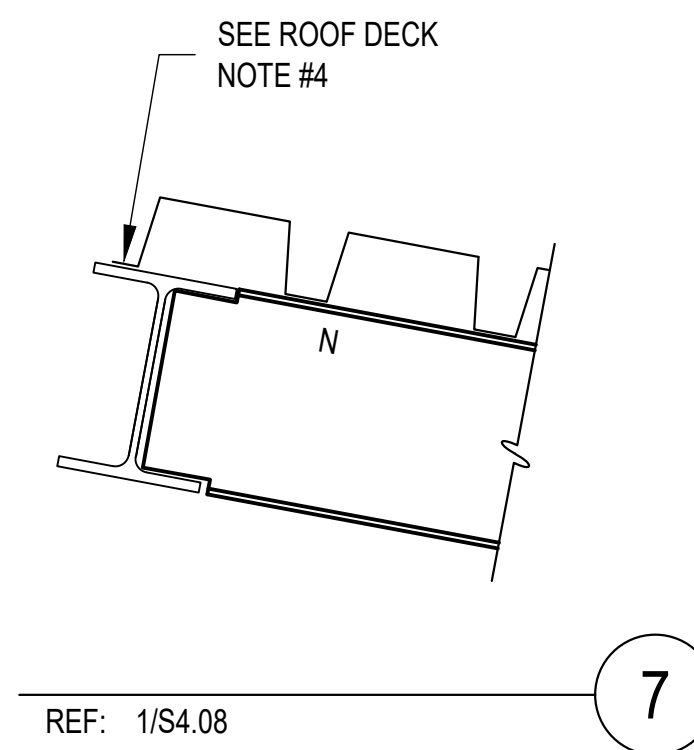
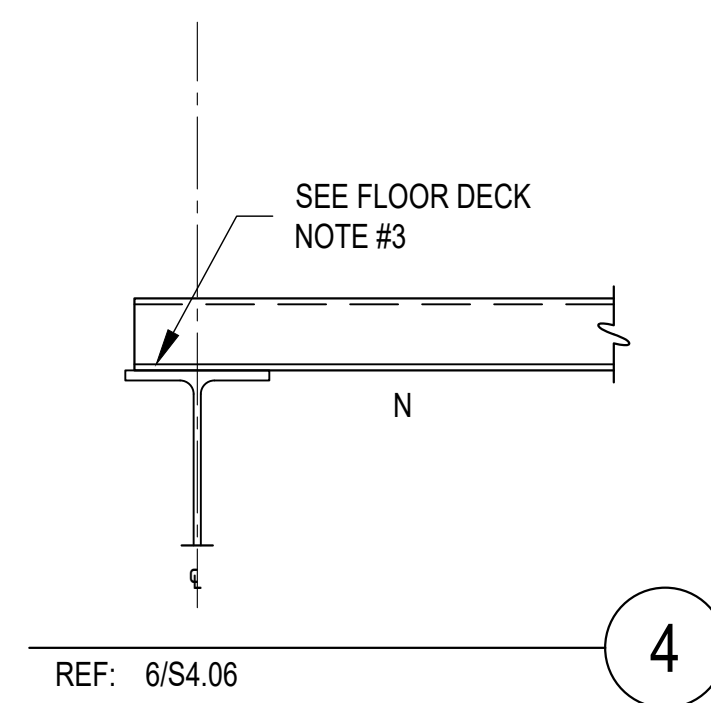
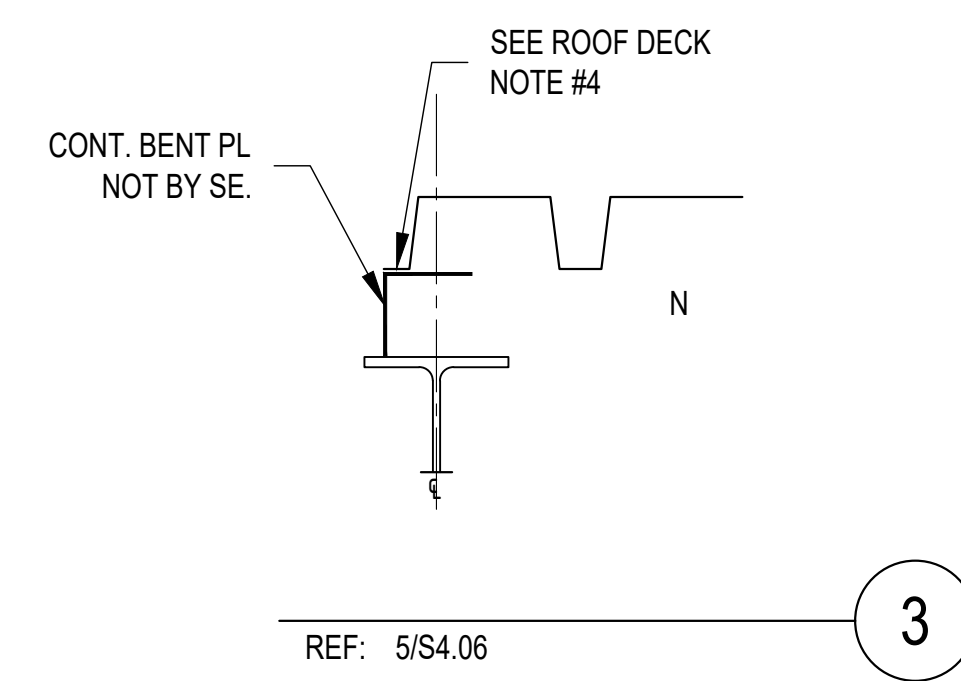
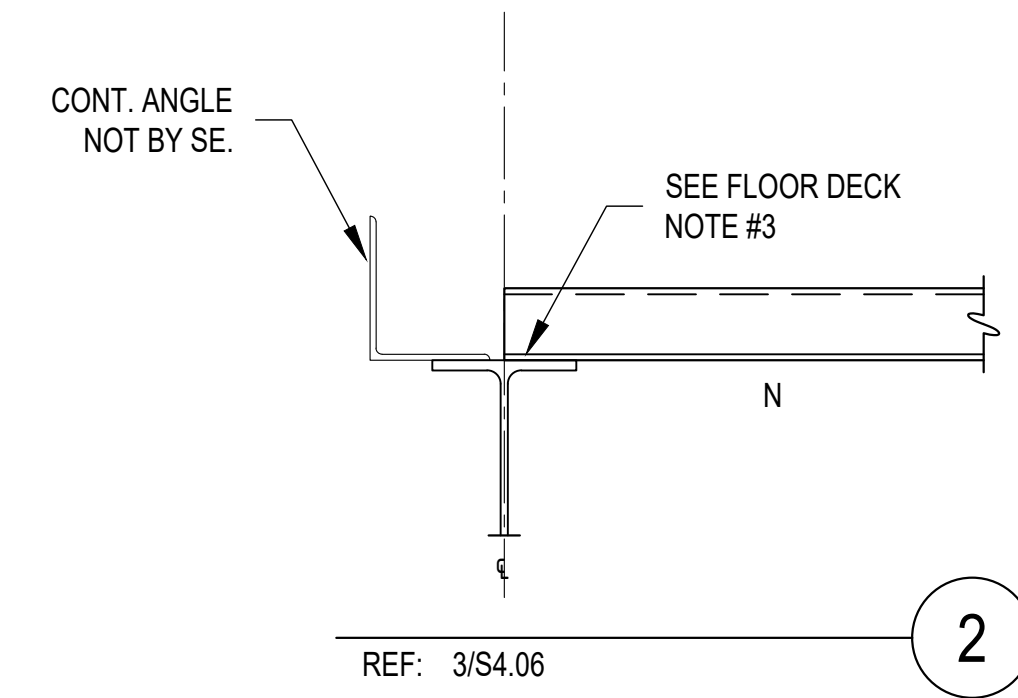
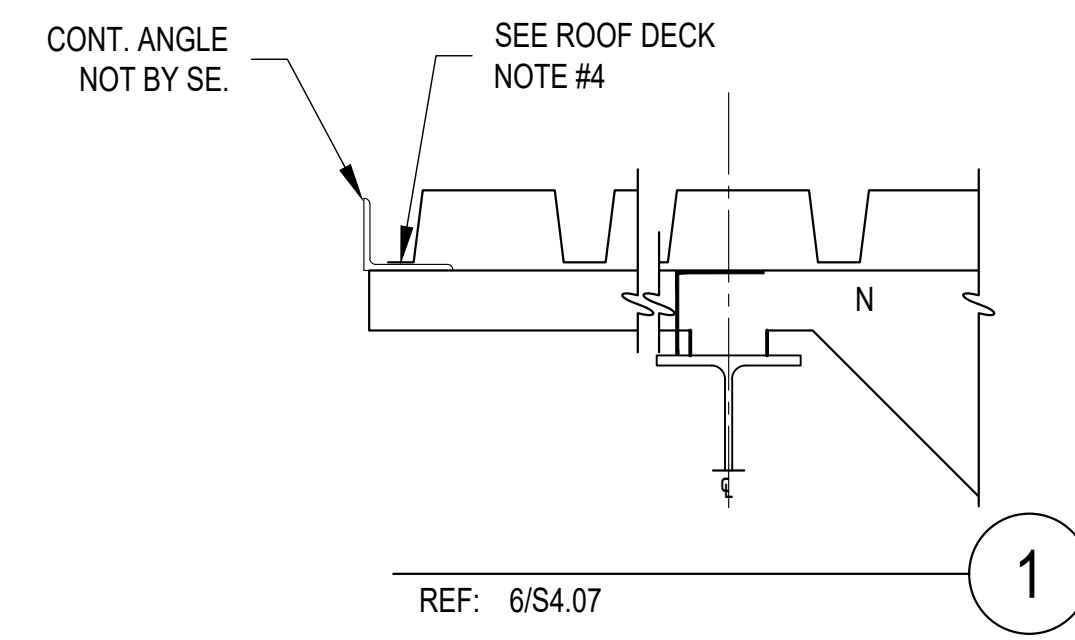
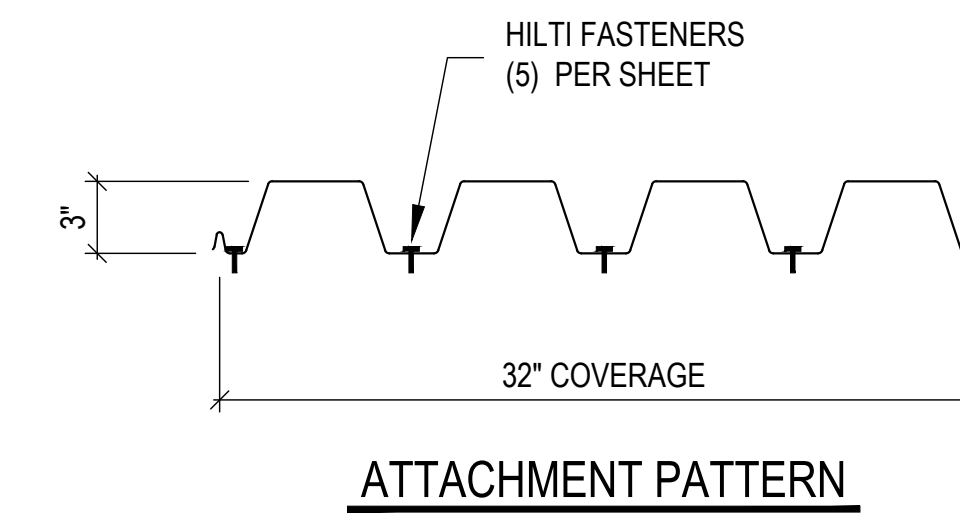
DESIGNED BY: MARCOS MARTINEZ  
 04/24/2024

[2021 Washington State Building Code, section 1705.2.2]  
 Cold-Formed Steel Deck  
 Special inspections and qualification of welding special inspectors for cold-formed steel floor and roof deck shall be in accordance with the quality assurance inspection requirements of SDI QA/QC.

PRCNC20240216 - Revision #1  
 Shop drawings - This set will not replace the Approved plan set.  
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**ROOF DECK ATTACHMENT NOTES:**

- REF: 1/S4.06
- 3" DEEP, 18 & 20 GAUGE, STEEL DECK TYPE PLN3, BY VERCO DECKING, INC. WITH GALV. (G-90) FINISH.
  - END LAP 4" MINIMUM AT SUPPORTS ONLY.
  - FASTEN DECK TO EACH SUPPORT WITH HILTI FASTENERS (SEE NOTE 7) SEE ATTACHMENT PATTERN.
  - FASTEN DECK TO SUPPORTS PARALLEL TO DECK SPAN WITH HILTI FASTENERS (SEE NOTE 7) AT 12" O.C.
  - FASTEN SIDE LAPS WITH VSC2 (VERCO SIDELAP CONNECTION) AT 24" O.C.
  - THE DIMENSION FROM FIRST AND LAST SIDELAP CONNECTION (SEE NOTE #5) TO EACH SUPPORT SHALL NOT BE GREATER THAN 1/2 OF THE GIVEN SPACING.
  - HILTI X-HSN 24 AT SUPPORTS 0.125" AND 0.250"  
 HILTI X-HSN 24; OR X-ENP AT SUPPORTS 0.250" AND 0.375"  
 HILTI X-ENP 19 AT SUPPORTS GREATER THAN 0.375"



**STEELENCOUNTERS**  
 NORTHWEST STRUCTURAL DIVISION  
 2007 W. COMMERCE WAY, SUITE 200  
 SEASIDE, WA 98138  
 PHONE: (206) 734-8800  
 FAX: (206) 734-8878  
 WWW.STEELENCOUNTERS.COM  
 steelen@steelecounters.com

**PSE TRAINING CENTER PUYALLUP**  
 PUYALLUP, WA  
 PENNON CONSTRUCTION COMPANY INC.  
 SEE JOB NO. 43423

**FOR APPROVAL ONLY**  
 NOT FOR FIELD USE  
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City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

NO.	DATE	DESCRIPTION
B	07/06/2024	FOR RESUBMITTAL
A	08/01/2024	APPROVAL DRAWINGS

DESIGNED BY:  
**MARCOS MARTINEZ**  
 04/24/2024

CHECKED BY:  
 / /

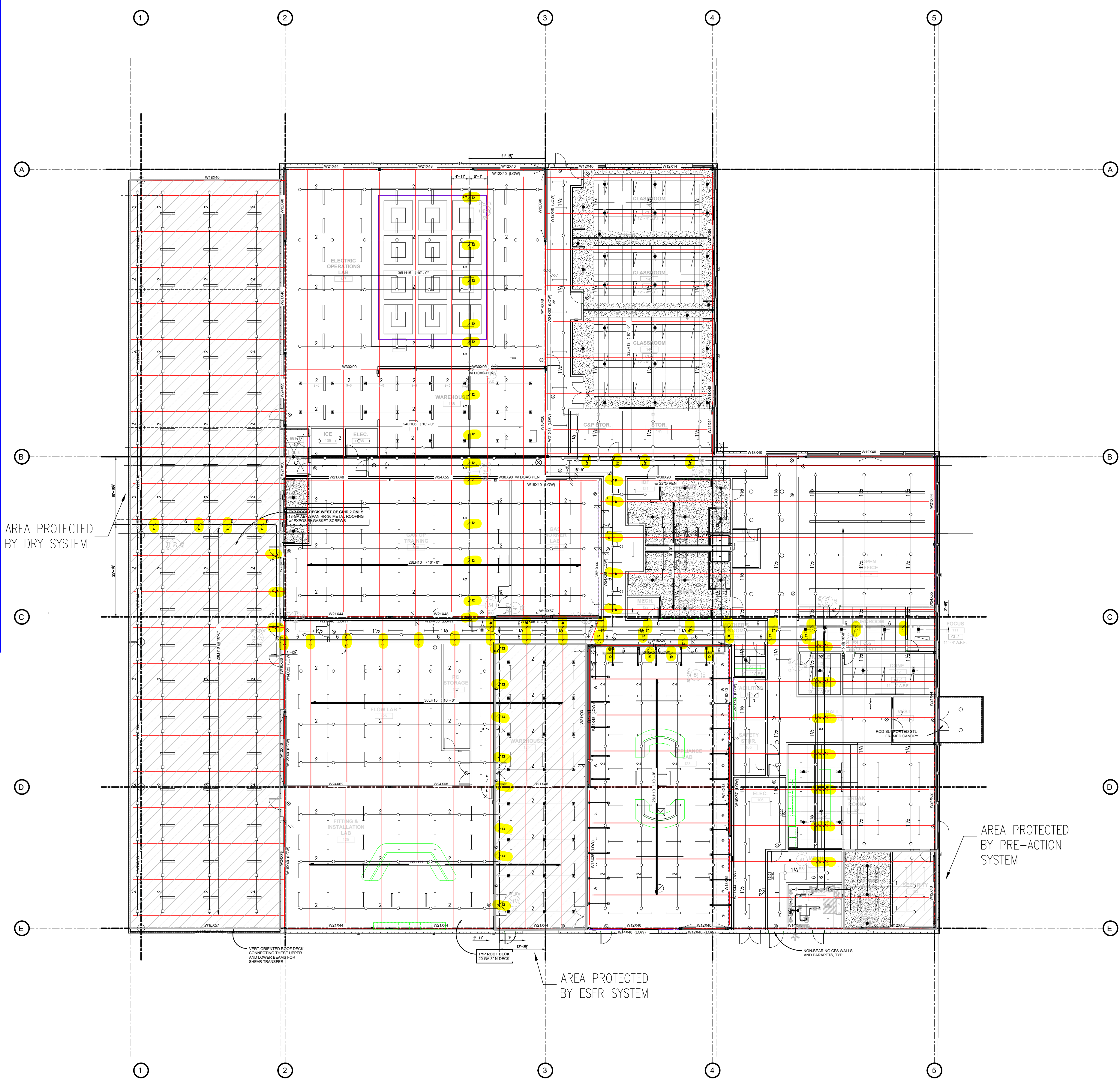
**D3**  
 DECK DETAILS

For Reference only - From Patriot

PRCNC20240216 - Revision #1  
 Shop drawings - This set will not replace the Approved plan set.  
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City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic



REVISED 06.26.24  
 HANGERS COORDINATION 06.25.24

100% CD SET

NORTH	PLAN
SCALE: 1/16" = 1'-0"	
PSE OPERATIONAL TRAINING CENTER	
FIRE PROTECTION PLAN	
PROJECT#	202202.06
DRAWN	RS   CHECK: CO
ISSUED:	XX.XX.24

OVERALL FIRE PROTECTION PLAN  
 SCALE: 1/16"=1'-0"

FP-1

# For Reference only - From Patriot

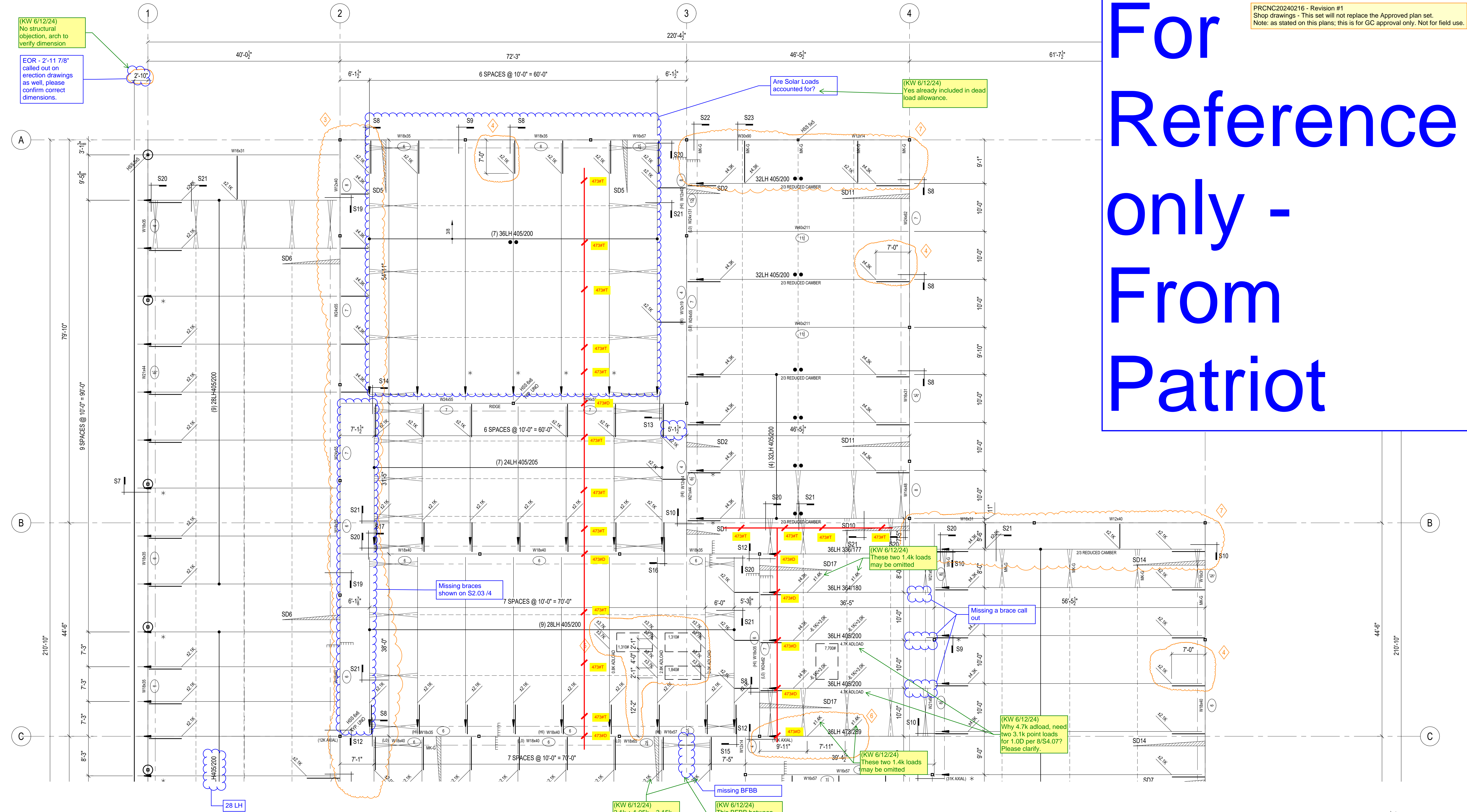
PRCNC20240216 - Revision #1  
 Shop drawings - This set will not replace the Approved plan set.  
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**STEELCOUNTERS**  
 NORTHWEST STRUCTURAL DIVISION  
 2001 W. CAMDEN RD. SUITE 300  
 SALEM, OR 97302  
 PHONE: (503) 721-1800  
 FAX: (503) 721-1801  
 WWW.STEELCOUNTERS.COM  
 steelc@steelcounters.com

**PROJECT NAME**  
**LOCATION**  
**CUSTOMER**  
**SEL JOB NO. - XXXX**

**GENERAL CONTRACTOR**  
**FOR APPROVAL ONLY**  
 NOT FOR FIELD USE  
 VERIFICATION OF DIMENSIONS, DETAILS, ETC. ARE REQUESTED WHERE INDICATED.  
 MATERIAL WILL NOT BE RELEASED FOR FABRICATION WITHOUT EACH VERIFICATION-ADDRESSED

City of Payalup  
 Development & Permitting Services  
 ISSUED PERMIT  
 Building Planning  
 Engineering Public Works  
 Fire Traffic



## ROOF FRAMING PLAN- NORTH

REF: S2.04

- Per EOR General notes Bracing and Bridging will be per SJ Drawings. If bracing and bridging beyond what is shown in SJ drawings is desired, EOR to provide specific locations and details in response to this submittal.
- Per EOR Conversation with Pennon, no Sprinkler Loads were accounted for in structural design. EOR to provide loading direction in response to this submittal.
- EOR to confirm Solar array loading is contemplated in their joist sizing, or provide direction of revision.
- Per EOR Conversation with Pennon, no Joist Hung VAV, FCU, or other mechanical loads were contemplated in their design. EOR to provide loading direction in response to this submittal.

**ROOF FRAMING NOTES**

- COLOR CODE: Bracing/bridging is per manufacturer, no additional requirements by KW
- SEE SHEET: Sprinkler lines 3" or smaller may be neglected in the OWSJ design. Larger lines shall have load accounted for. GC to coordinate with sprinkler submittal and mark hanger loads on joist submittal plan.
- SEE SHEET: HORIZONTAL BRACING: A uniform solar load allowance is included in the design dead load, no additional loads required for solar.
- PROVIDE ON EACH JOIST: SEE UPLIFT BRIDGING DIAGRAM ON SHEET CJ1. UPLIFT BRACING: The VAV weights are low enough to be accounted for in the uniform dead load. An Add-Load of 220 lbs shall be provided at all joists supporting FCU weights greater than 200 lbs. GC to coordinate locations and mark on plan for joist mfr. Provide chord reinforcement per 5/S4.07 where required.

**EOR Confirm All**

- (KW 6/12/24) See note above
- (KW 6/12/24) This parapet drift load is accounted for in the uniform snow load shown on the joist, OK
- (KW 6/12/24) Per 7/S4.05, depends on web member layout, aligning with panel point while not exceeding the 15-degree limit
- (KW 6/12/24) GC please coordinate with mechanical unit and steel submittals
- (KW 6/12/24) 1.4k loads omitted per note
- (KW 6/12/24) This parapet drift load is accounted for in the uniform snow load shown on the joist, OK

- APPROVERS CHECKLIST:**
- PLEASE VERIFY JOISTS TOP CHORD EXTENSIONS DIMENSIONS FROM GRID 1 AS SHOWN. PROVIDE OTHERWISE.
  - PLEASE VERIFY IF ANY SNOW DRIFT LOAD APPLICABLE PERPENDICULAR TO JOISTS AT THIS GRID 2. IF SO, PLEASE PROVIDE LOAD.
  - PLEASE VERIFY 7'-0" DIMENSION FROM GRIDS TO UP/DOWN LOAD DUE TO BRACING. PROVIDE OTHERWISE.
  - PLEASE VERIFY UP/DOWN LOADS LOCATION FROM GRID C AS SHOWN. PROVIDE OTHERWISE.
  - PLEASE VERIFY UP/DOWN LOADS FROM BEAM SUPPORT OFF GRID 3 AS SHOWN. PROVIDE OTHERWISE.
  - PLEASE VERIFY IF ANY SNOW DRIFT LOAD APPLICABLE PERPENDICULAR TO JOISTS, DUE TO PARAPET, AT GRIDS A & B. IF SO, PLEASE PROVIDE LOAD.

FAILURE TO ADDRESS QUESTIONS ON THIS SET OF "APPROVAL DRAWINGS" MAY RESULT IN DELAYS IN FABRICATION AND DELIVERY.  
 IF ANY OF THESE QUESTIONS ARE UNCLEAR, PLEASE CALL ME (801) 478-8109.  
 THANK YOU, MARCOS MARTINEZ

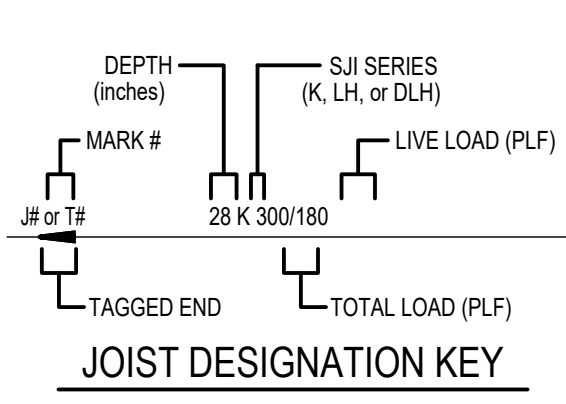
**SPRINKLER HANGER LEGEND**

XXX#D - BEAM CLAMP TO TOP OF BEAM OR JOIST

XXX#T - TRAPEZE HANGER SPANNING TWO STRUCTURAL MEMBERS

### ERECTOR NOTE

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

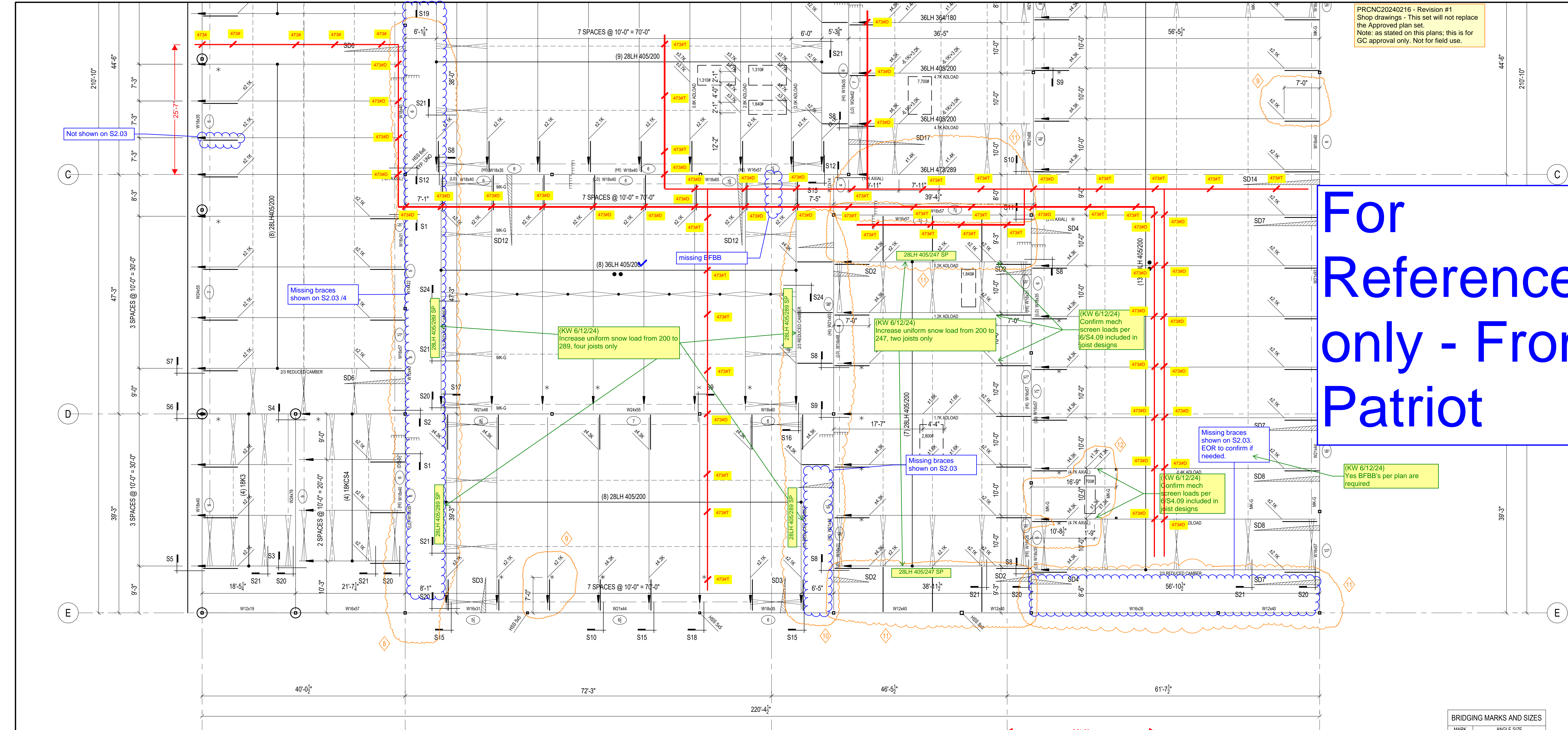


JOIST QUANTITIES:	
JOIST GIRDERS	0
SHORT SPAN	0
LONG SPAN	0
JOIST SUBSTITUTES	0

**J2**

PRNC20240216 - Revision #1  
 Shop drawings - This set will not replace the Approved plan set.  
 Note: as stated on this plans; this is for GC approval only. Not for field use.

**For Reference only - From Patriot**



- Per EOR General notes Bracing and Bridging will be per SJI Drawings. If bracing and bridging beyond what is shown in SJI drawings is desired, EOR to provide specific locations and details in response to this submittal.
- Per EOR Conversation with Pennon, no Sprinkler Loads were accounted for in structural design. EOR to provide loading direction in response to this submittal.
- EOR to confirm Solar array loading is contemplated in their joist sizing, or provide direction of revision.
- Per EOR Conversation with Pennon, no Joist Hung VAV, FCU, or other mechanical loads were contemplated in their design. EOR to provide loading direction in response to this submittal.

(KW 6/12/24)  
 Bracing/bridging is per manufacturer, no additional requirements by KW

(KW 6/12/24)  
 Sprinkler lines 3" or smaller may be neglected in the OWSJ design. Larger lines shall have load accounted for. GC to coordinate with sprinkler submittal and mark hanger loads on joist submittal plan.

(KW 6/12/24)  
 A uniform solar load allowance is included in the design dead load, no additional loads required for solar.

(KW 6/12/24)  
 The VAV weights are low enough to be accounted for in the uniform dead load. An Add-Load of 220 lbs shall be provided at all joists supporting FCU weights greater than 200 lbs. GC to coordinate locations and mark on plan for joist mfr. Provide chord reinforcement per 5/S4.07 where required.

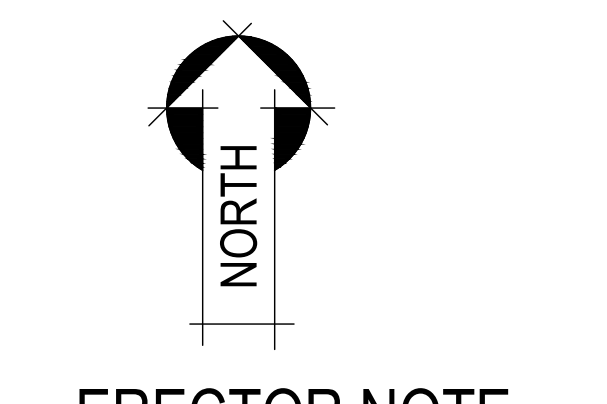
**SPRINKLER HANGER LEGEND**

XXX#D - BEAM CLAMP TO TOP OF BEAM OR JOIST

XXX#T - TRAPEZE HANGER SPANNING TWO STRUCTURAL MEMBERS

BRIDGING MARKS AND SIZES

MARK	ANGLE SIZE
A	L1 x 1 1/2
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



**ERECTOR NOTE**

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

DEPTH (inches)  
 MARK #  
 SJI SERIES (K, LH, or DLH)  
 LIVE LOAD (PLF)  
 TAGGED END  
 TOTAL LOAD (PLF)

**JOIST DESIGNATION KEY**

- 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 C/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 C/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 (-----).

(KW 6/12/24)  
 Increase the uniform snow load at specific joists indicated above, in addition to any triangular drifts indicated by load schedule.

(KW 6/12/24)  
 Per 7/S4.05, depends on web member layout, aligning with panel point while not exceeding the 15-deg limit

(KW 6/12/24)  
 GC please coordinate with mechanical unit and steel submittals

- APPROVERS CHECKLIST:**
- PLEASE VERIFY IF ANY SNOW DRIFT LOAD APPLICABLE PERPENDICULAR TO JOISTS AT THIS GRID 2. IF SO, PLEASE PROVIDE LOAD.
  - PLEASE VERIFY 7'-0" DIMENSION FROM GRIDS TO UP/DOWN LOAD DUE TO BRACING TYP. PROVIDE OTHERWISE.
  - PLEASE VERIFY IF ANY SNOW DRIFT LOAD APPLICABLE PERPENDICULAR TO JOISTS AT PARAPET OFF GRID 3. IF SO, PLEASE PROVIDE LOAD.
  - PLEASE VERIFY IF ANY SNOW DRIFT LOAD APPLICABLE PERPENDICULAR TO JOISTS, DUE TO PARAPET AT GRID E. IF SO, PLEASE PROVIDE LOAD.
  - PLEASE VERIFY UP/DOWN LOADS LOCATIONS FROM BEAM SUPPORT OFF GRID 4 AS SHOWN. PROVIDE OTHERWISE.

FAILURE TO ADDRESS QUESTIONS ON THIS SET OF "APPROVAL DRAWINGS" MAY RESULT IN DELAYS IN FABRICATION AND DELIVERY.

IF ANY OF THESE QUESTIONS ARE UNCLEAR, PLEASE CALL ME (801) 478-8109.

THANK YOU, MARCOS MARTINEZ

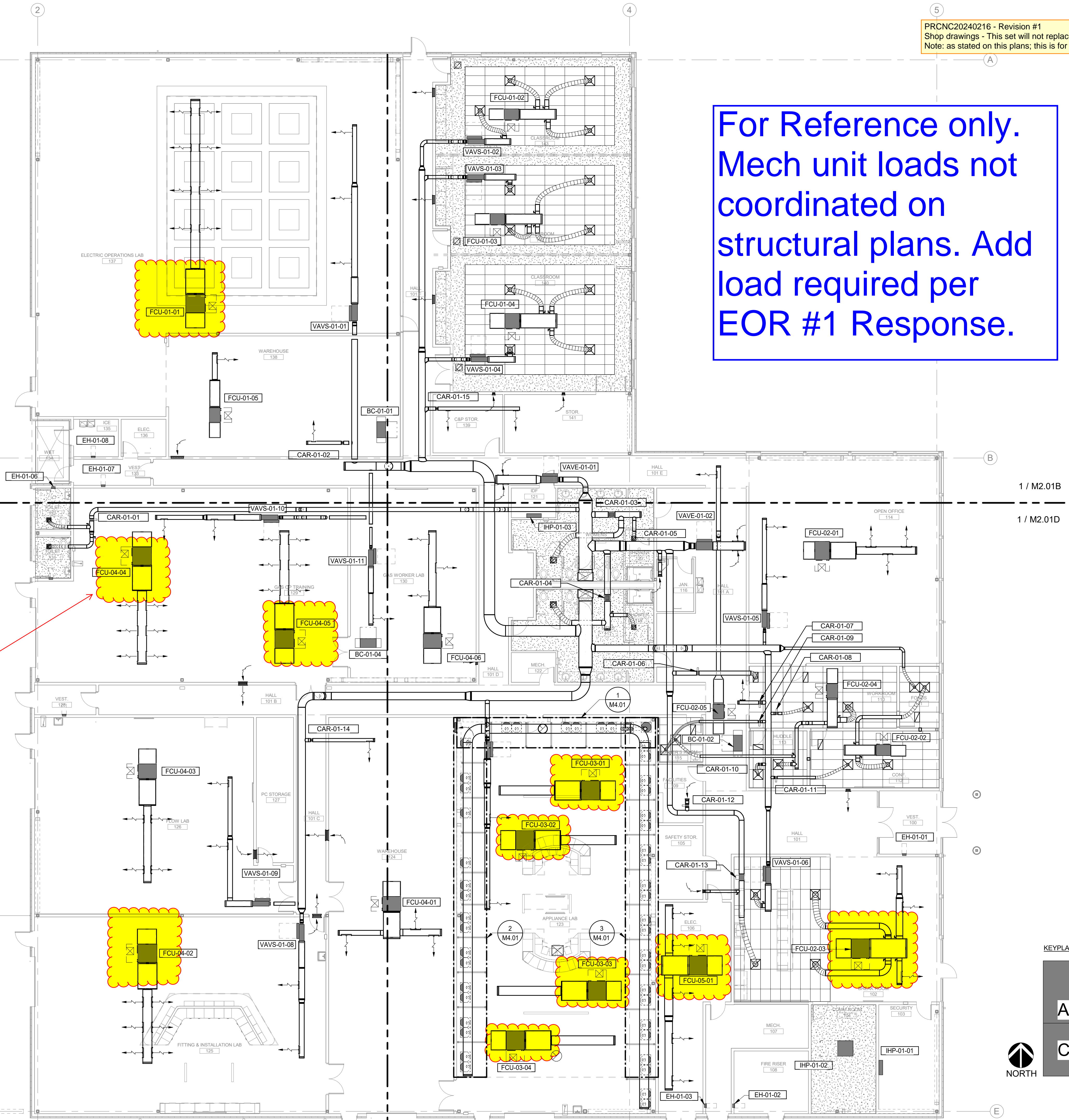


JOIST QUANTITIES:

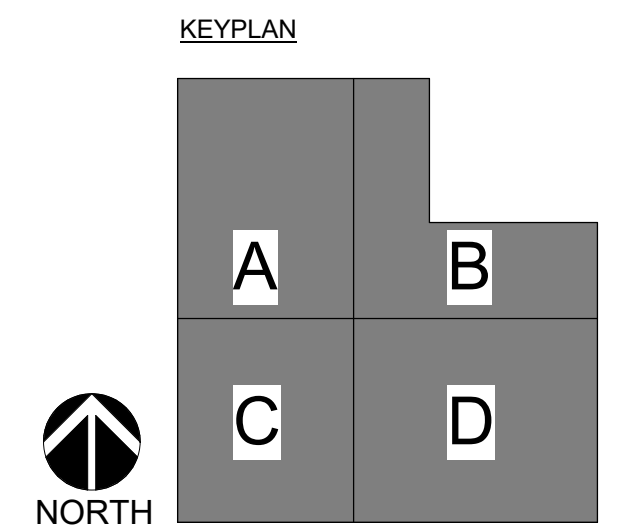
JOIST GIRDERS	0
SHORT SPAN	0
LONG SPAN	0
JOIST SUBSTITUTES	0

For Reference only.  
Mech unit loads not  
coordinated on  
structural plans. Add  
load required per  
EOR #1 Response.

Add Load of 220lbs at  
highlighted locations



**1 LEVEL 01 - SHEETMETAL**  
SCALE: 1" = 10'-0"



REVISIONS:	REVIT CLOUD DESCRIPTION:	DATE:
12/06/23		09/22/23
Permit Set		
100% Design Development		

**PSE - OPERATIONAL TRAINING CENTER**  
325 TODD ROAD NW  
PUYALLUP, WA 98371

**1ST FLOOR PLAN - MECHANICAL**  
**MM TRADE**  
100% CD SET

ENGINEER: G. Townsend  
CHECKED BY: G. Graham  
BIM: A. Perez  
PROJECT NUMBER: 7222-5111-00  
SHEET NUMBER:

LAST REVISED: 1/26/2024  
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