

1.0 CONSTRUCTION NOTES

THESE NOTES SUPPLEMENT THE SPECIFICATION. ANY DISCREPANCY FOUND AMONG THE DRAWINGS, SPECIFICATIONS, THESE NOTES, AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE CONTRACTOR'S RISK. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK FOR FABRICATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL ERECTION BRACING, FORM WORK, AND TEMPORARY CONSTRUCTION SHORING

1.10 BIDDER'S WARRANTY

BY THE ACT OF SUBMITTING A BID FOR THE PROPOSED CONTRACT, THE CONTRACTOR WARRANTS THAT: THE CONTRACTOR AND ALL SUBCONTRACTORS HE INTENDS TO USE HAVE CAREFULLY AND THOROUGHLY REVIEWED THE DRAWINGS AND STRUCTURAL NOTES AND HAVE FOUND THEM COMPLETE AND FREE FROM AMBIGUOUS AND SUFFICIENT FOR THE PURPOSE INTEND THE CONTRACTOR HAS CAREFULLY EXAMINED THE SITE OF THE WORK AND THAT FROM HIS OWN INVESTIGATIONS, HE HAS SATISFIED HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK, AS TO THE CHARACTER, QUALITY, QUANTITIES OF MATERIAL AND DIFFICULTIES TO BE ENCOUNTERED, AS TO THE EXTENT OF EQUIPMENT AND OTHER FACILITIES NEEDED FOR THE PERFORMANCE OF THE WORK AND AS TO THE GENERAL AND LOCAL CONDITIONS, AND OTHER ITEMS WHICH MAY IN ANY WAY AFFECT THE WORK OR ITS PERFORMANCE. THE CONTRACTOR AND ALL WORKMEN HE INTENDS TO USE ARE SKILLED AND EXPERIENCED IN THE TYPE OF CONSTRUCTION REPRESENTED BY THE DRAWINGS AND DOCUMENTS BID UPON. NEITHER THE CONTRACTOR NOR ANY OF HIS EMPLOYEES, AGENTS, INTENDED SUPPLIERS, OR SUBCONTRACTORS HAVE RELIED UPON ANY VERBAL REPRESENTATION ALLEGED AUTHORIZED OR UNAUTHORIZED FROM THE OWNER OR HIS EMPLOYEES OR AGENTS, INCLUDING THE ARCHITECT OR ENGINEERS, IN ASSEMBLING THE BID FIGURES. THE BID FIGURE IS BASED SOLELY UPON THE CONSTRUCTION CONTRACT DOCUMENTS AND PROPERLY ISSUED WRITTEN ADDENDA AND NOT UPON ANY OTHER WRITTEN OR VERBAL REPRESENTATIONS

1.20 CODE

ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING AUTHORITY. ALL REFERENCE TO OTHER CODES AND STANDARDS, (AGI, ASTM, ETC.,) SHALL BE FOR THE LATEST OR MOST CURRENT EDITION AVAILABLE.

1.30 DESIGN CRITERIA

UNIFORM LOADS:

LOADS	LIVE LOAD	DEAD LOAD	
ROOF	25 PSF*	ACTUAL	I _s = 1.1
CLASSROOM	40 PSF	ACTUAL	
CORRIDOR EXIT	100 PSF	ACTUAL	
SLAB-ON-GRADE	125 PSF	ACTUAL	
* 15% INCREASE IN STRESSES FOR WD FRAMING ALLOWED FOR SNOW LIVE LOAD			

CONCENTRATED LOADS:

MECHANICAL UNITS OR OTHER CONCENTRATED LOADS ON ROOF OR FLOOR. ALL MANUFACTURES OF PRE-ENGINEERED SYSTEMS SHALL LOCATE, COORDINATE, VERIFY WEIGHTS, ETC., AND DESIGN THEIR SYSTEM FOR THESE LOADS.

LATERAL LOADS:

WIND (IBC 1604)

110 MPH -3 SECOND GUST

I_w = 1.0

EXPOSURE B

EARTHQUAKE DESIGN DATA (IBC 1613)

I_e = 1.25

S_s = 1.27

S₁ = 0.444

SITE CLASS D

S_{0.5} = 1.02

S_{0.2} = N/A

SEISMIC DESIGN CATEGORY: D

BEARING WALL SYSTEM

-LIGHT FRAMING WALL WITH SHEAR PANELS

-WOOD STRUCTURAL PANELS

V = 0.16W (STRENGTH DESIGN)

C_s = 0.16

R = 6.5

EQUIVALENT LATERAL FORCE METHODS

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 LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION

1.40 SOIL DATA

1500 PSF BEARING -SEE SOILS REPORT BY KRAZAN & ASSOC.

1.50 INSPECTION -SEE SPECIFICATION

1.60 DIFFERED SUBMITTALS / SHOP DRAWINGS

SUBMIT DIFFERED SUBMITTALS / SHOP DRAWINGS TO BE REVIEWED BY THE ENGINEER FOR THE FOLLOWING:

CONCRETE MIX

REINFORCING STEEL

PRE-ENGINEERED STEEL / WOOD TRUSSES (WASHINGTON STATE SEAL REQUIRED)

GLUE-LAMINATED MEMBERS

RED IRON

1.70 MISCELLANEOUS

VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD

VERIFY SIZE AND LOCATION OF ALL OPENINGS IN THE FLOORS, ROOF AND WALLS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS

CONSTRUCTION DETAILS NOT SPECIFICALLY SHOWN ON THE DRAWINGS SHALL FOLLOW SIMILAR DETAILS OF SECTIONS OF THIS PROJECT AS APPROVED BY THE ARCHITECT/ENGINEER

SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR DIMENSIONS AND LOCATIONS OF OPENINGS NOT DIMENSIONED OR SHOWN ON STRUCTURAL PLANS

1.80 SPECIAL INSPECTION

IN ACCORDANCE WITH IBC SECTION 1704 SHALL BE PROVIDED FOR THE FOLLOWING WORK ITEMS. (REFER TO SECTION 1704 FOR COMPLETE DESCRIPTIONS)

ITEM	REQUIRED FOR	FREQUENCY
REINFORCED CONCRETE	REINFORCING	PERIODIC
	REINFORCING WELDING	
	BOLTS INSTALLED IN CONC.	CONTINUOUS
	USE OF CORRECT DESIGN MIX	PERIODIC
	SLUMP & AIR TESTS	CONTINUOUS
	PLACEMENT OF CONC.	CONTINUOUS
	CURING TEMP. & TECHNIQUE	PERIODIC
	ID MARKINGS	PERIODIC
	MFR CERTIFICATE	PERIODIC
	BEARING-TYPE CONNECTION	PERIODIC
	SIP-CRITICAL CONNECTION	CONT./PERIODIC
	DRILLING & EPOXY	CONTINUOUS
	ID MAKING PER CONSTRUCTION DOCS	
	MFR CERTIFIED MILL TEST REPORT	
	ALL PENETRATION GROOVE WELDS	CONTINUOUS
	MULTI-PASS FILLET WELDS	CONTINUOUS
	SINGLE PASS FILLET WELDS ≥ 3/16"	CONTINUOUS
	SINGLE PASS FILLET WELDS ≤ 3/16"	PERIODIC
	SHEAR WALL & DIAPHRAGM NAILING	PERIODIC
	DRAG STRUTS AND HOLDDOWNS	PERIODIC

1.90 QUALITY ASSURANCE

QUALITY ASSURANCE PLANS FOR SEISMIC RESISTANCE: UNLESS OTHERWISE PROVIDED BY THE ARCHITECT OR OTHER CONSULTANTS FOR THIS PROJECT, THE CONTRACTOR SHALL PROVIDE QUALITY ASSURANCE FOR EACH OF THE FOLLOWING SYSTEMS:

PIPING SYSTEMS AND MECHANICAL UNITS CONTAINING FLAMMABLE COMBUSTIBLE OR HIGHLY TOXIC MATERIALS

ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER SYSTEMS

SUSPENDED CEILING SYSTEMS AND THEIR ANCHORAGE

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE BUILDING'S SEISMIC FORCE-RESISTING SYSTEM OR OTHER SYSTEM LISTED IN THE QUALITY ASSURANCE PLAN(S) SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL, OWNER AND ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK ON THAT SYSTEM. THE STATEMENT OF RESPONSIBILITY SHALL MEET ALL THE REQUIREMENTS OF IBC 1705.3

2.0 SITE WORK

2.10 EXCAVATION

EXCAVATE TO DEPTH SHOWN AND TO FIRM UNDISTRIBUTED MATERIAL. OVER-EXCAVATIONS SHALL BE BACKFILLED WITH LEAN CONCRETE (F_c = 2,000 psi) AT THE CONTRACTOR'S EXPENSE. EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AS NECESSARY TO AVOID WATER -SOFTENED SUB-GRADE.

2.20 FILL, BACKFILL, AND COMPACTION

BACKFILL AGAINST WALLS SHALL NOT BE PLACED UNTIL AFTER THE REMOVAL OF ALL MATERIAL SUBJECT TO ROT OR CORROSION. ALL FILL PLACED AGAINST RETAINING WALLS OR BASEMENT WALLS SHALL BE FREE-DRAINING GRANULAR MATERIAL. STRUCTURAL FILL OTHER THAN PEA GRAVEL SHALL BE GRANULAR. PLACED IN 6 INCH LIFTS AND COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 (MOD. PROCTOR) AND ASTM D-698 (STANDARD PROCTOR). PEA GRAVEL FILL SHALL HAVE A MAXIMUM PARTICLES SIZE OF 3/8" DIAMETER.

3.0 STRUCTURAL CONCRETE

3.10 GENERAL

ALL CONCRETE SHALL BE HARD ROCK CONCRETE MEETING REQUIREMENTS OF ACI-301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS." PROPORTIONING OF INGREDIENTS FOR EACH CONCRETE MIX SHALL BE BY METHOD 2 OR THE ALTERNATE PROCEDURE GIVEN IN ACI-301. PLACE CONCRETE PER ACI-304 AND CONFORM TO ACI-604(30%) FOR WINTER CONCRETING AND ACI-605(30%) FOR HOT WEATHER CONCRETE. USE INTERIOR MECHANICAL VIBRATORS WITH 7,000 RPM MINIMUM FREQUENCY. DO NOT OVER-VIBRATE. CONCRETE SHALL BE PLACED IN A SINGLE POUR BETWEEN CONSTRUCTION OR CONTROL JOINTS. PROTECT ALL CONCRETE FROM PREMATURE DRYING, EXCESSIVE HOT OR COLD TEMPERATURE FOR SEVEN DAYS AFTER PLACING.

3.20 STRENGTH

28 DAY COMPRESSIVE STRENGTHS SHALL BE:

ITEMS	PSI	SLUMP
SLABS	3000	3" ± 1"
BEAMS, COLUMNS, VERTICALLY FORMED WALL	3000	3" ± 1"
FOOTING	3000	4" ± 1"

THESE SLUMPS MAY BE INCREASED WITH PROPER ADDITION OF ADMIXTURES FOR WORKABILITY WITHOUT CHANGING THE WATER CONTENT OF THE ORIGINAL APPROVED MIX DESIGN. ADMIXTURES CONTAINING CHLORIDES ARE NOT PERMITTED UNLESS APPROVED BY THE ENGINEER.

3.30 MATERIALS

CEMENT: ASTM 150, TYPE I OR TYPE I-II. ENGINEER'S APPROVAL IS NEEDED FOR USE OF TYPE III CEMENT

COARSE AND FINE AGGREGATES: ASTM C-33

WATER: CLEAN AND POTABLE

3.40 WATER REDUCING ADMIXTURES

WATER REDUCING ADMIXTURE: ASTM C-494. ADMIXTURES SHALL BE USED IN EXACT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

SYNERGIZED PERFORMANCE SYSTEMS: CONCRETE USING ADMIXTURES TO PRODUCE FLOW-ABLE CONCRETE MAY BE USED SUBJECT TO ENGINEER'S APPROVAL

AIR ENTRAINMENT: ASTM C-260 AND ASTM C-494, ENTRAIN 4% ± 1% BY VOLUME IN ALL EXPOSED CONCRETE

NO OTHER ADMIXTURE PERMITTED UNLESS APPROVED BY THE ENGINEER

3.50 FORMWORK AND SHORING

FOLLOW RECOMMENDED PRACTICE FOR CONCRETE FORMWORK (ACI-347)

RESHORING FOR EARLY REMOVAL OF ORIGINAL SUPPORTS WILL NOT BE PERMITTED WHILE RESHORING OPERATIONS ARE UNDERWAY, NO CONSTRUCTION LOADS WILL BE PERMITTED ON THE NEW CONSTRUCTION

ALL SHORING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

FORMWORK SUPPORTS AND SHORING SHALL BE DESIGNED TO PROVIDE FINISHED CONCRETE SURFACES AT ALL FACES LEVEL, PLUMB, AND TRUE TO THE DIMENSIONS AND ELEVATIONS SHOWN. TOLERANCES AND VARIATIONS SHALL BE AS SPECIFIED

3.60 REINFORCING STEEL

DETAIL, FABRICATE, AND PLACE PER ACI-315 AND ACI-318. SUPPORT REINFORCEMENT WITH APPROVED CHAIRS, SPACERS, OR TIES

DEFORMED BAR REINFORCEMENT: ASTM A-615 GRADE 60

WELDED DEFORMED BAR REINFORCEMENT: ASTM A-615 GRADE 60 OR 40, WELDABLE GRADE. SUBMIT WELD PROCEDURES AND MILL CERTIFICATES SHOWING CARBON CONTENT FOR ALL BARS TO BE WELDED

WELDED WIRE FABRIC: ASTM A-105 & ASTM A-82 F_y = 65 KSI

DEFORMED BAR ANCHORS: ASTM A-496

ALL REINFORCING SHALL BE LA-SPLICED A MINIMUM LAP OF 40 BAR DIAMETERS EXCEPT AS NOTED SPECIFICALLY ON THE STRUCTURAL DRAWINGS. NO MORE THAN 50% OF HORIZONTAL OR VERTICAL BARS SHALL BE SPLICED OF ONE LOCATION.

PROVIDE ALBON BARS (40 DIAMETERS) TO LAP HORIZONTAL STEEL AT CORNERS AND INTERSECTIONS IN FOOTINGS AND WALLS

LAP WELDED FABRIC 12" OR ONE SPACING PLUS 2", WHICHEVER IS MORE

3.70 CONCRETE COVER ON REINFORCING (UNLESS SHOWN OTHERWISE)

BOTTOM OF FOOTINGS	3"
FORMED EARTH FACE & SLAB-ON-GRADE	2"
WALLS, WEATHER FACE	1 1/2"
COLUMNS AND BEAMS TO STIRRUPS	1 1/2"
BOTTOM OF INTERIOR SLAB	3/4"
WALLS, INSIDE FACE	1"

3.80 CONSTRUCTION JOINTS

CONSTRUCTION JOINT SPACING IN WALLS SHALL NOT EXCEED 50' ON CENTER EXCEPT AS DIRECTED BY THE ARCHITECT/ENGINEER

HORIZONTAL CONSTRUCTION JOINTS IN BEAMS AND GIRDERS ARE NOT PERMITTED EXCEPT WHERE INDICATED. VERTICAL CONSTRUCTION JOINTS IN BEAMS AND SLABS SHALL BE LOCATED BETWEEN THE MIDPOINT AND THE THIRD POINT OF THE SPAN. UNLESS NOTED OTHERWISE, LOCATION OF THE CONSTRUCTION OR CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE ON COLUMN GRIDS OR UNDER PERMANENT PARTITIONS AND SHALL NOT EXCEED 20'-0" C/C EACH WAY.

NO JOINTS, BEAMS, OR GIRDERS SHALL BE SLEEVED FOR PIPING OR CONDUIT EXCEPT AS NOTED ON THE STRUCTURAL DRAWINGS OR AS APPROVED BY THE ARCHITECT/ENGINEER

ELECTRICAL CONDUIT IN SLABS, SHALL BE PLACED AT THE MID-DEPTH OF THE SLAB AT A

MINIMUM SPACING OF THREE TIMES THE CONDUITS DIAMETER. CONDUIT OUTSIDE DIAMETER SHALL NOT EXCEED 1/3 OF THE SLAB THICKNESS

PROVIDE CONTROL JOINTS IN EXPOSED HOLLOW CORE TOPPING AT EACH END OF EACH HOLLOW CORE FLANK. PROVIDE ADDITIONAL JOINTS PARALLEL TO PLANKS AT 16' 0"/C MAXIMUM

5.0 METALS

5.10 WELDING

ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE" ANSI/AWS D1.1. IN THE CASE OF WELDING REINFORCING BARS, ALL WELDING SHALL BE IN ACCORDANCE WITH ANSI/AWS D1.4. WELDING OF REINFORCEMENT BARS SHALL NOT BE ALLOWED EXCEPT WHERE SHOWN

MATERIALS: USE ONLY E60 OR E70 ELECTRODES

ALL WELDING SHALL BE BY CERTIFIED WELDERS. ALL FULL PENETRATION WELDS SHALL BE INSPECTED BY ULTRASONIC NON-DESTRUCTIVE TESTING PROCEDURES. SUBMIT TEST RESULTS TO ARCHITECT/ENGINEER FOR REVIEW.

5.20 STRUCTURAL STEEL

ALL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO AISC "MANUAL OF STEEL CONSTRUCTION," LATEST EDITION

MATERIAL

STEEL SHAPES/PLATES: ASTM A-36

PIPE COLUMNS: ASTM A-53, TYPE E OR S (F_y = 36 KSI.)

TUBE COLUMNS: ASTM A-500, GRADE B (F_y = 46 KSI.)

BOLTS, NUTS: ASTM A-307 UNLESS NOTED OTHERWISE

METAL PROTECTION: ALL STEEL EXPOSED TO WEATHER, MOISTURE, SOIL, OR AS NOTED SHALL BE GALVANIZED PER ASTM A-123 (1.25 OZ/SF MINIMUM). ALL OTHER STEEL SURFACES TO BE SHOP PRIMED AFTER FABRICATION

6.0 WOOD

6.10 GENERAL

FRAMING LUMBER SHALL BE DF#2 OR BETTER, EXCEPT THAT 2X FRAMING LUMBER MAY BE HF #2 UNLESS OTHERWISE SHOWN ON THE PLANS. ALL 2" LUMBER SHALL BE KILN DRIED (KD). EACH PIECE OF LUMBER SHALL BEAR A GRADE STAMP OF A RECOGNIZED LUMBER GRADING OR INSPECTION BUREAU OR AGENCY PER THE NIST AMERICAN SOFTWOOD LUMBER STANDARD PS 20-99

PROVIDE CUT OR MALLEABLE IRON WASHERS OR WHERE BOLT HEADS, NUTS, AND LAG SCREWS BEAR ON WOOD

TREAT ALL WOOD IN CONTACT WITH CONCRETE, MORTAR, GROUT, MASONRY, AND WITHIN 8' OF EARTH; ALL WOOD OVER WATER; AND ALL WOOD IN CONTACT WITH EARTH; WITH ONE OF THE FOLLOWING PROCESSES:

CHROMATED COPPER ARSENATE (CCA-C)

DOT SODIUM BORATE (SBX)

ALKALINE COPPER QUAT ACQ-C AND ACQ-D (CARBONATE)

COPPER AZOLE (CBA-A AND CA-B)

WHERE POSSIBLE, PRE-CUT MATERIAL BEFORE TREATMENT. ALL FIELD CUTS AND DRILLED HOLES SHALL BE FIELD TREATED IN ACCORDANCE WITH AWPA M-4

6.20 ACCESSORIES

BOLTS SHALL BE ASTM A-307

WASHERS SHALL BE MALLEABLE IRON WASHERS (M.I.W.)OR HEAVY PLATE CUT WASHERS NAILS SHALL BE COMMON, AMERICAN OR CANADIAN MANUFACTURES ONLY

LAG SCREWS, SHEAR PLATES -SEE NATIONAL DESIGN SPECIFICATIONS

ANCHORS AND CONNECTIONS SHALL BE SIMPSON, TECO, LUMBERLOK OR OTHER INTERNATIONAL CODE COUNCIL (ICC) APPROVED PRODUCTS. ALL FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS UNLESS OTHERWISE SHOWN.

ALL HARDWARE EXPOSED TO WEATHER, IN UNHEATED PORTIONS OF BUILDING, OR IN CONTACT WITH TREATED WOOD AS SPECIFIED ABOVE SHALL BE GALVANIZED AS FOLLOWS:

FASTENERS SHALL BE HOT DIPPED PER ASTM A 153 OR MECHANICALLY GALVANIZED PER ASTM B 695, CLASS 55 OR GREATER.

HARDWARE SHALL BE GALVANIZED PER ONE OF THE FOLLOWING PROCESS: ASTM A 653 CLASS 185 (SIMPSON ZMAX G185) OR BATCH/POST HOT DIPPED GALVANIZED PER ASTM A 123

STAINLESS STEEL HARDWARE AND FASTENERS SHALL BE USED IN CONNECTION WITH ANY PRESERVATIVE TREATMENT PROCESS NOT SPECIFICALLY LISTED ABOVE

6.30 MINIMUM NAILING

MINIMUM NAILING SHALL BE PER IBC TABLE 2304.9.1 -NAILING SCHEDULE

6.40 SHEATHING (PLYWOOD/OSB)

ALL GRADING SHALL CONFORM TO THE FOLLOWING STANDARDS:

NIST VOLUNTARY PRODUCT STANDARD PS 2-92. THICKNESS AND LAY-UP SHALL BE AS SHOWN. ALL PLYWOOD SHALL BE GROUP I OR II SPECIES. UNLESS OTHERWISE SHOWN, PROVIDE THE FOLLOWING MINIMUM NAILING:

PANEL EDGE: 8D @ 6" OC

INTERMED. SUPPORT: 8D @ 12" OC

6.50 GLUELAM BEAMS

MATERIALS, MANUFACTURE AND QUALITY CONTROL SHALL BE PER ANSI/AITC A-190.1 "STRUCTURAL GLUE LAMINATED TIMBER," UNLESS OTHERWISE SHOWN. GAMBER ALL BEAMS 1 1/2 TIMES DEAD LOAD DEFLECTION. UNLESS OTHERWISE SHOWN ALL BEAMS SHALL BE COMBINATION 24F-1.8E AS LISTED IN AWC-ASD TABLE 3.1, AND HAVE EXTERIOR GLUE. UNLESS OTHERWISE SHOWN, INDUSTRIAL APPEARANCE IS ACCEPTABLE.

6.60 WOOD ADHESIVE

ALL WOOD ADHESIVES SHALL BE ELASTOMERIC AND SHALL HAVE A CURRENT ICC-ES APPROVAL. APPLY ALL ADHESIVES IN ACCORDANCE WITH THE ADHESIVE MANUFACTURER'S RECOMMENDATION

6.70 PRE-ENGINEERED TRUSSES

MEMBER GEOMETRY AND SPACING SHALL BE AS SHOWN ON THE PLANS. THE MANUFACTURER SHALL PROVIDE ADDITIONAL FRAMING MEMBER AS SHOWN OR AS NECESSARY TO PROVIDE SUPPORT FOR MECHANICAL EQUIPMENT, WALL, OR OTHER PARTITIONS, SNOW DRIFT LOADS, ETC. TRUSSES WITH SPANS GREATER THAN 35' SHALL HAVE THE HEEL PLATES DESIGNED CONSIDERING THE EFFECT OF ECCENTRIC LOADING WHERE NOTED PRECUT BLOCKING, BRIDGING, BRACING, AND/OR FILLER PIECES SHALL BE FURNISHED BY THE MANUFACTURER. WHERE APPLICABLE, WIND UPLIFT BRACING, SHALL BE PROVIDED BY THE MANUFACTURE. UNLESS NOTED OTHERWISE, THE TRUSS MANUFACTURE SHALL SPECIFY AND FURNISH CONNECTION HARDWARE FOR THE INSTALLATION OF THEIR SYSTEM

SHOP DRAWINGS SHALL INDICATE ALL REQUIRED PERMANENT BRACING. SUPPORTING CALCULATIONS SHALL INDICATE MEMBER STRESSES, SPECIES/GRADES, AND APPLICABLE ICC-ES APPROVALS. SHOP DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WASHINGTON. METAL PLATED TRUSSES SHALL BE MANUFACTURED A DETAILED IN CONFORMANCE WITH THE FOLLOWING STANDARDS:

ANSI/TPI 1-2002 NATIONAL DESIGN STANDARDS FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION

ANSI/TIP 1-1995 CODE OF STANDARD PRACTICE FOR THE METAL PLATE CONNECTED WOOD TRUSS INDUSTRY

ANSI/TPI 2-1995 STANDARD FOR TESTING METAL PLATE CONNECTED WOOD TRUSSES

WHEN DELIVERED, THE COMPONENTS SHALL BE ACCOMPANIED BY THE FABRICATORS CERTIFICATE OF CONFORMANCE TO THE ABOVE REFERENCED STANDARDS, AND BY THE FOLLOWING USER ADVISORY NOTICES (OR NOTICE EQUIVALENT) TO:

BCSI-B1 SUMMARY SHEET -GUIDE FOR HANDLING, INSTALLATION, AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES

BCSI-B2 SUMMARY SHEET -TRUSS INSTALLATION AND TEMPORARY BRACING

BCSI-B3 SUMMARY SHEET -WEB MEMBER PERMANENT BRACING/WEB REINFORCEMENT

BCSI-B4 SUMMARY SHEET -CONSTRUCTION LOADING

TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD ^a	IBC REFERENCE
1. Inspect reinforcement, including prestressing tendons, and verify placement.	—	X	ACI 318 Ch. 20, 25.2, 25.3, 26.8.1-26.8.3	1908.4
2. Reinforcing bar welding: <ul style="list-style-type: none"> a. Verify weldability of reinforcing bars other than ASTM A705. b. Inspect single-pass fillet welds, maximum 5/16"; and c. Inspect all other welds. 	—	X	AWS D1.4 ACI 318: 26.8.4	—
3. Inspect anchors cast in concrete.	—	X	ACI 318: 17.8.2	—
4. Inspect anchors post-installed in hardened concrete members. ^b <ul style="list-style-type: none"> a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. b. Mechanical anchors and adhesive anchors not defined in 4.a. 	X	X	ACI 318: 17.8.2.4 ACI 318: 17.8.2	—
5. Verify use of required design mix.	—	X	ACI 318: Ch. 16, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	—	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10
7. Inspect concrete and shotcrete placement for proper application techniques.	X	—	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. Verify maintenance of specified curing temperature and techniques.	—	X	ACI 318: 26.5.3-26.5.5	1908.9
9. Inspect prestressed concrete for: <ul style="list-style-type: none"> a. Application of prestressing forces; and b. Grouting of bonded prestressing tendons. 	X	—	ACI 318: 26.10	—
10. Inspect erection of precast concrete members.	—	X	ACI 318: Ch. 26.8	—
11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	—	X	ACI 318: 26.11.2	—
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	X	ACI 318: 26.11.1, 2(b)	—

TABLE C-N5.4-1
Inspection Tasks Prior to Welding

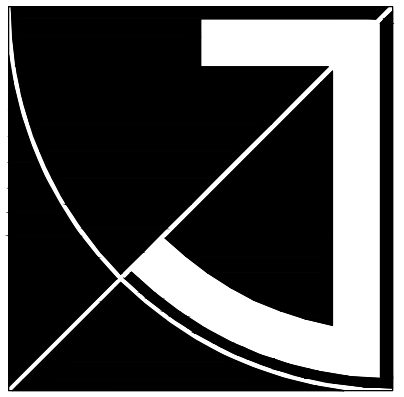
Inspection Tasks Prior to Welding	AWS D1.1/D1.1M References*
Welding procedure specifications (WPS) available	6.3
Manufacturer certifications for welding consumables available	6.2
Material identification (type/grade)	6.2
Welder identification system	6.4 (welder qualification) (identification system not required by AWS D1.1/D1.1M)
Fit-up of groove welds (including joint geometry)	
• Joint preparation	6.5.2
• Dimensions (alignment, root opening, root face, bevel)	5.22
• Cleanliness (condition of steel surfaces)	5.15
• Tacking (tack weld quality and location)	5.18
• Backing type and fit (if applicable)	5.10, 5.22.1.1
Configuration and finish of access holes	6.5.2, 5.17 (also see Section J1.6)
Fit-up of fillet welds	5.22.1
• Dimensions (alignment, gaps at root)	5.15
• Cleanliness (condition of steel surfaces)	5.18
• Tacking (tack weld quality and location)	5.18
Check welding equipment	6.2, 5.11

TABLE C-N5.4-2
Inspection Tasks During Welding

Inspection Tasks During Welding	AWS D1.1/D1.1M References*
Use of qualified welders	6.4
Control and handling of welding consumables	6.2
• Packaging	5.3.1
• Exposure control	5.3.2 (for SMAW), 5.3.3 (for SAW)
No welding over cracked tack welds	5.18
Environmental conditions	
• Wind speed within limits	5.12.1
• Precipitation and temperature	5.12.2
WPS followed	6.3.3, 6.5.2, 5.5, 5.21
• Settings on welding equipment	
• Travel speed	
• Selected welding materials	
• Shielding gas type/flow rate	
• Preheat applied	5.6, 5.7
• Interpass temperature maintained (min/max.)	
• Proper position (F, V, H, OH)	
Welding techniques	6.5.2, 6.5.3, 5.24, 5.30.1
• Interpass and final cleaning	
• Each pass within profile limitations	
• Each pass meets quality requirements	

TABLE C-N5.4-3
Inspection Tasks After Welding

Inspection Tasks After Welding	AWS D1.1/D1.1M References**
Welds cleaned	5.30.1
Size, length and location of welds	6.5.1
Welds meet visual acceptance criteria	6.5.3
• Crack prohibition	Table 6.1(1)
• Weld/basis-metal fusion	Table 6.1(2)
• Crater cross section	Table 6.1(3)
• Weld profiles	Table 6.1(4), 5.24
• Weld size	Table 6.1(6)
• Undercut	Table 6.1(7)
• Porosity	Table 6.1(8)
Arc strikes	5.29



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PROJECT NAME/ADDRESS

**CASCADE CHRISTIAN JR. HIGH SCHOOL
PHASE IB & IIIA**

815 21ST STREET SE
PUYALLUP, WA 98372

PROJECT NUMBER
21007

DRAWING TYPE

PERMIT DOCUMENTS

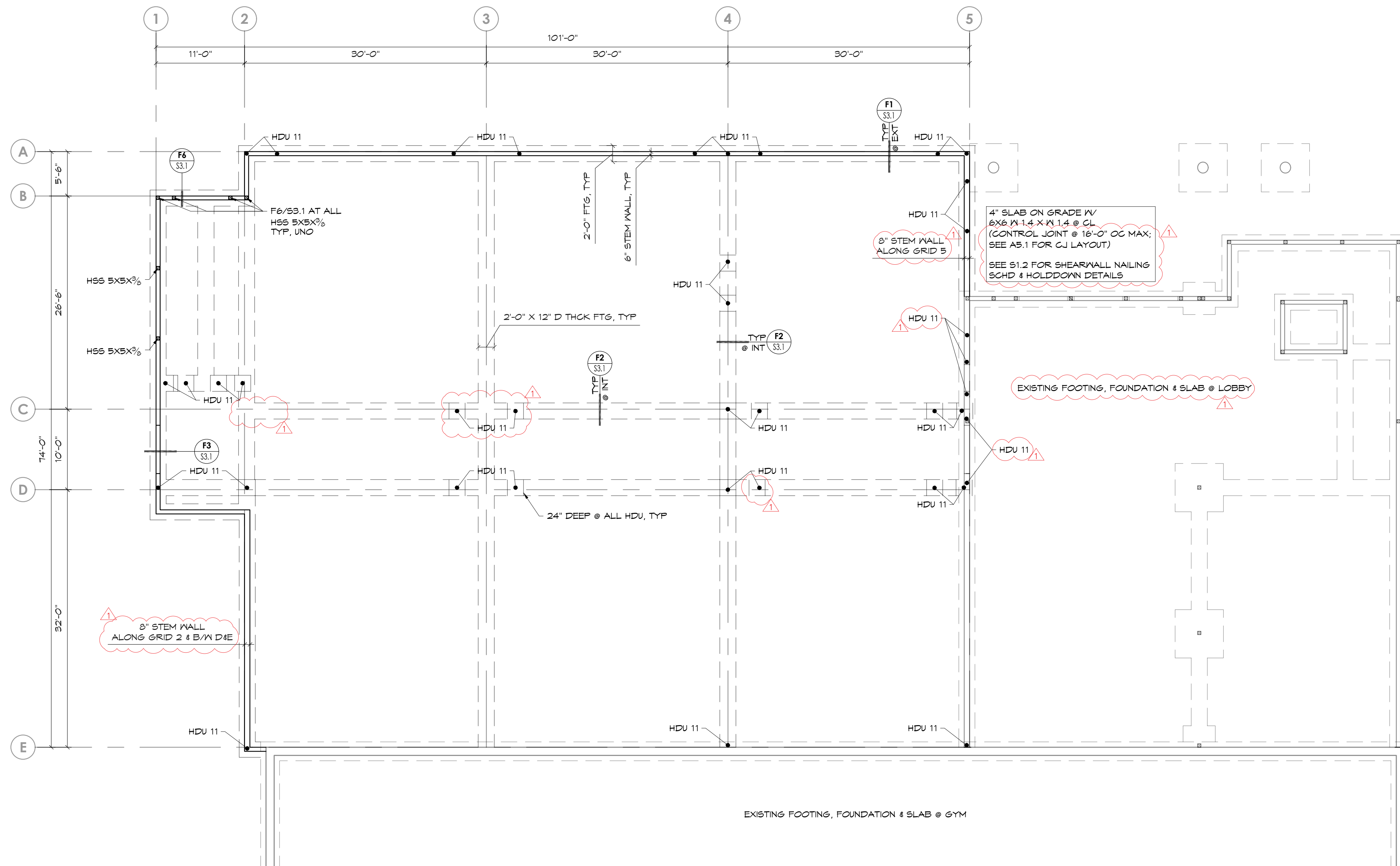
ISSUE DATE	ISSUE DESCRIP.	NO.
09.15.21	PERMIT	
12.06.21	REV-CITY	△

SHEET TITLE

FOUNDATION PLAN

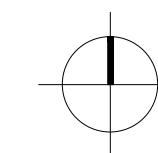
SHEET #

S2.1

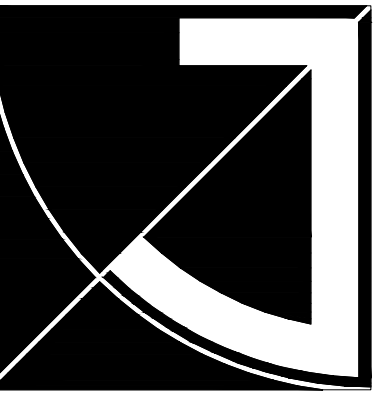


FOUNDATION PLAN

(11X17) SCALE: 1/16" = 1'-0"
(22X34) SCALE: 1/8" = 1'-0"



**B-21-0727CITY OF
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PROJECT NUMBER

21007

DRAWING TYPE

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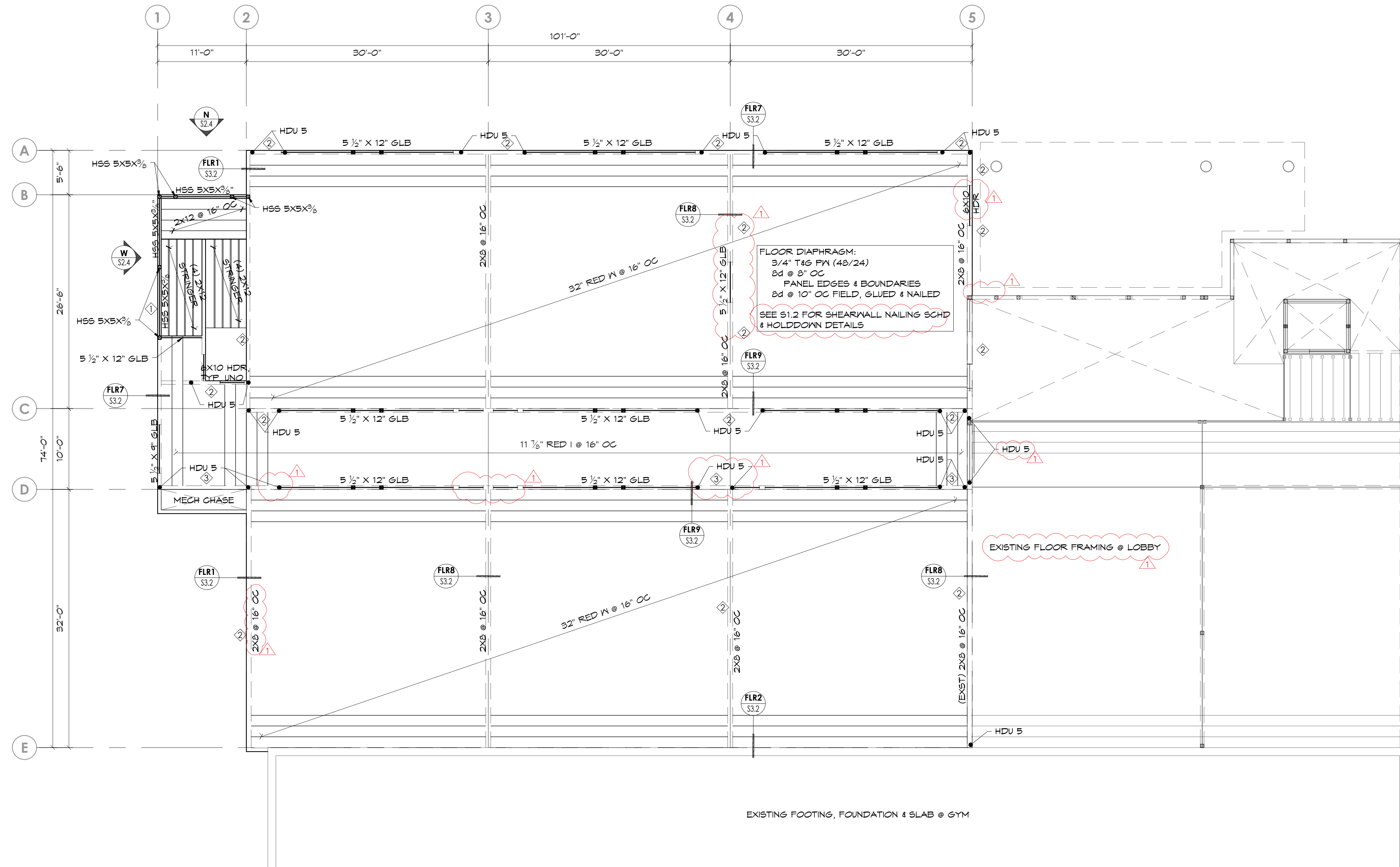
ISSUE DATE	ISSUE DESCRIP.	NO.
09.15.21	PERMIT	
12.06.21	REV-CITY	▲

SHEET TITLE

2ND FLOOR FRAMING PLAN

SHEET #

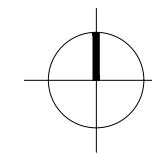
S2.2



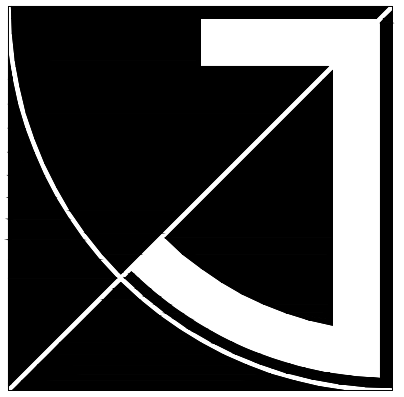
City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

2ND FLOOR FRAMING PLAN

(11x17) SCALE: 1/16" = 1'-0"
(22x34) SCALE: 1/8" = 1'-0"



**B-21-0727CITY OF
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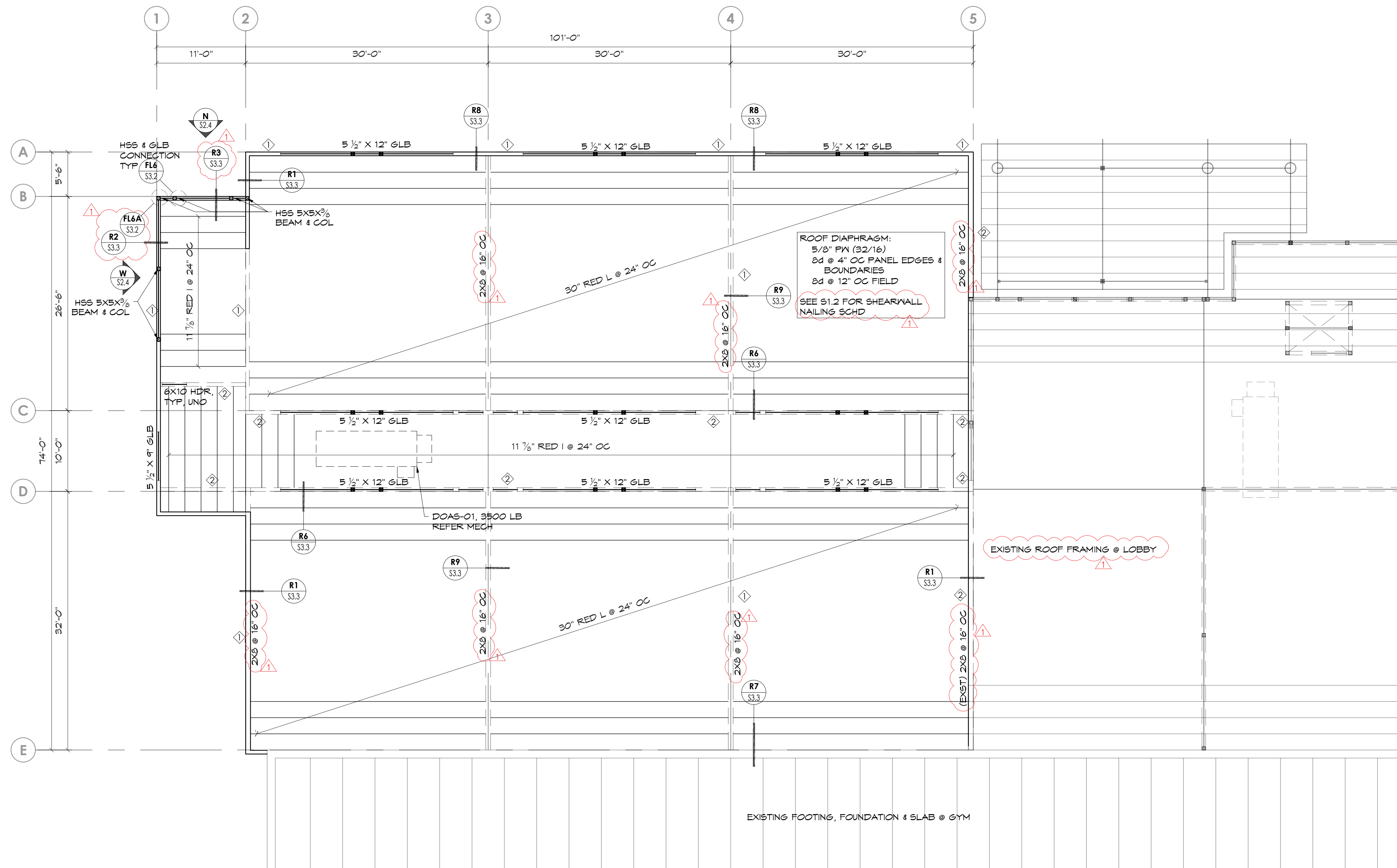
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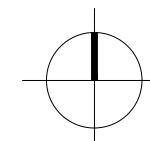
09.15.21 PERMIT

12.06.21 REV-CITY



ROOF FRAMING PLAN

(11X17) SCALE: 1/16" = 1'-0"
(22X34) SCALE: 1/8" = 1'-0"



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

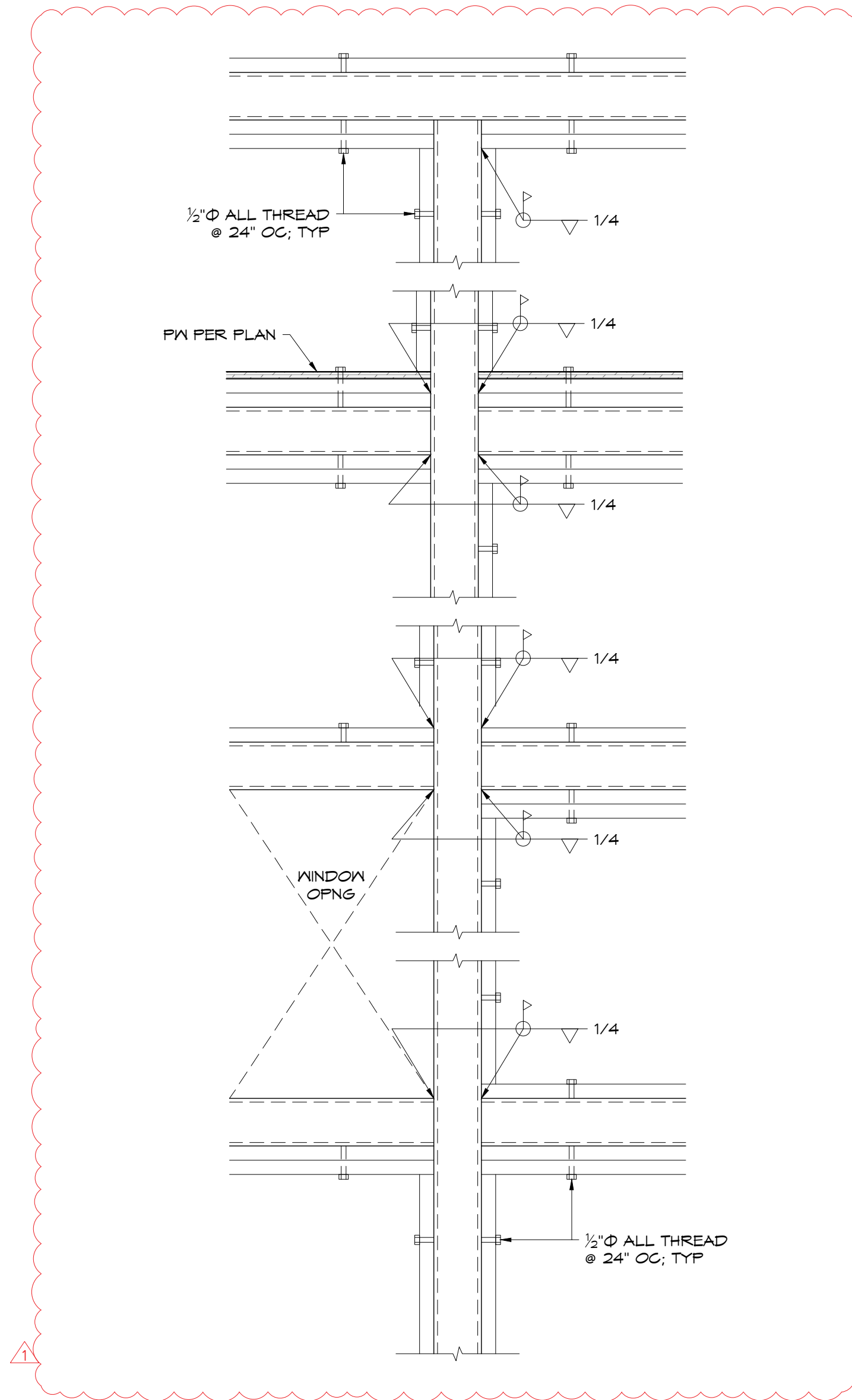
B-21-0727CITY OF PUYALLUP

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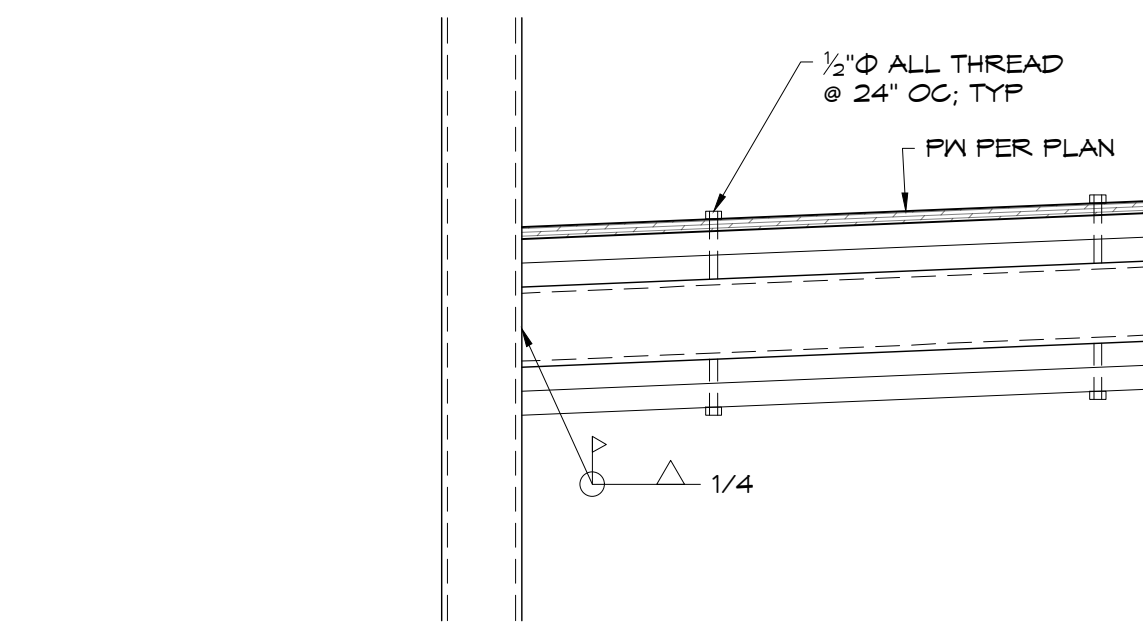
ROOF FRAMING PLAN

SHEET #

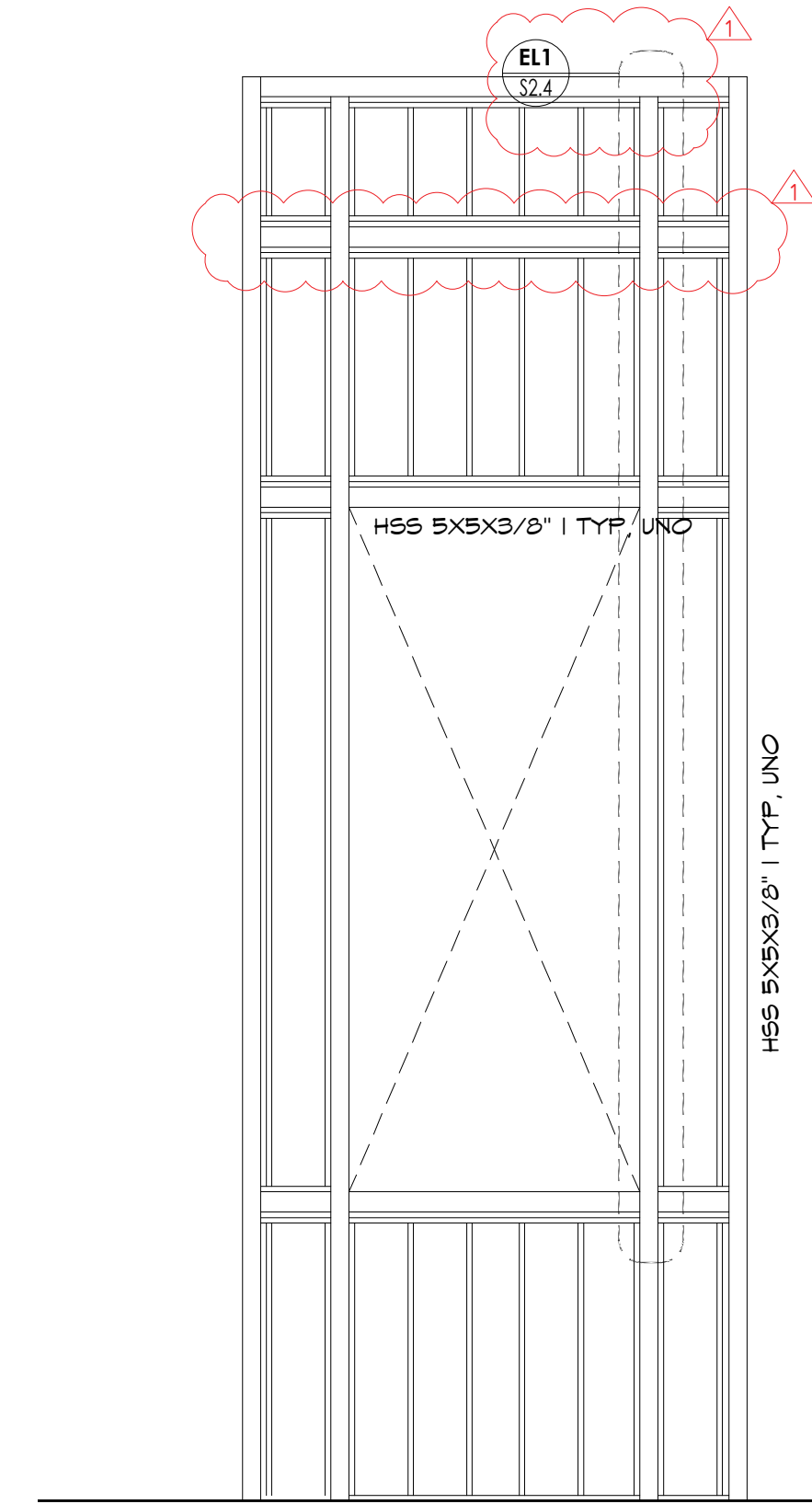
S2.3



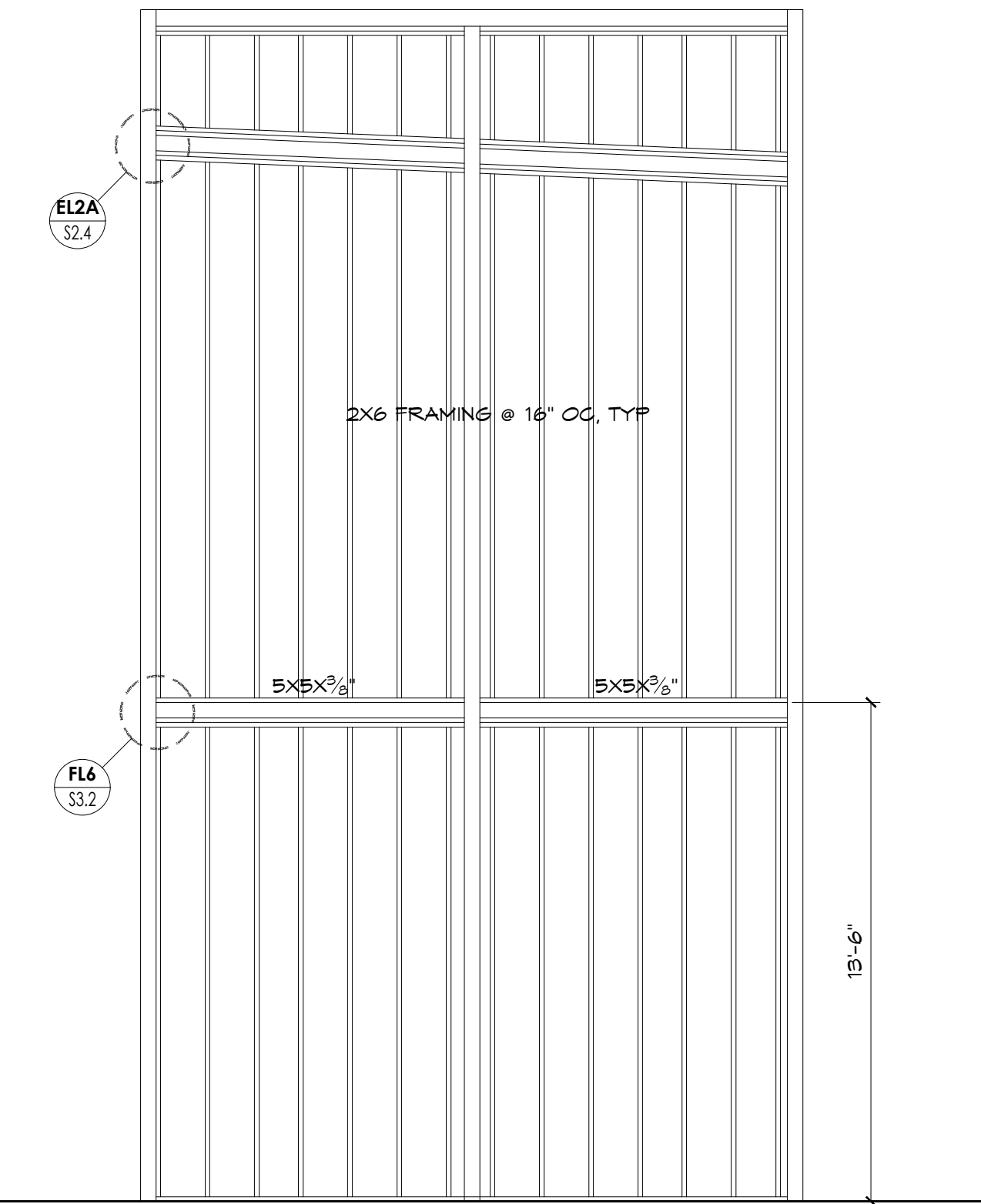
EL1 ENLARGED ELEVATION
 (11X17) SCALE: 1/2" = 1'-0"
 (22X34) SCALE: 1" = 1'-0"



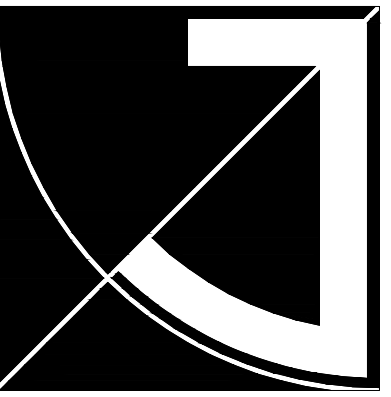
EL2A ENLARGED ELEVATION
 (11X17) SCALE: 1/2" = 1'-0"
 (22X34) SCALE: 1" = 1'-0"



N STEEL ELEVATION @ STIARS
 (11X17) SCALE: 1/8" = 1'-0"
 (22X34) SCALE: 1/4" = 1'-0"



W STEEL ELEVATION @ STIARS
 (11X17) SCALE: 1/8" = 1'-0"
 (22X34) SCALE: 1/4" = 1'-0"



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PROJECT NUMBER

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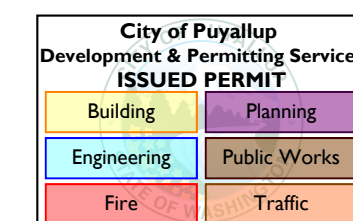
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PERMIT DOCUMENTS

ISSUE DATE ISSUE DESCRIP. NO.

09.15.21 PERMIT

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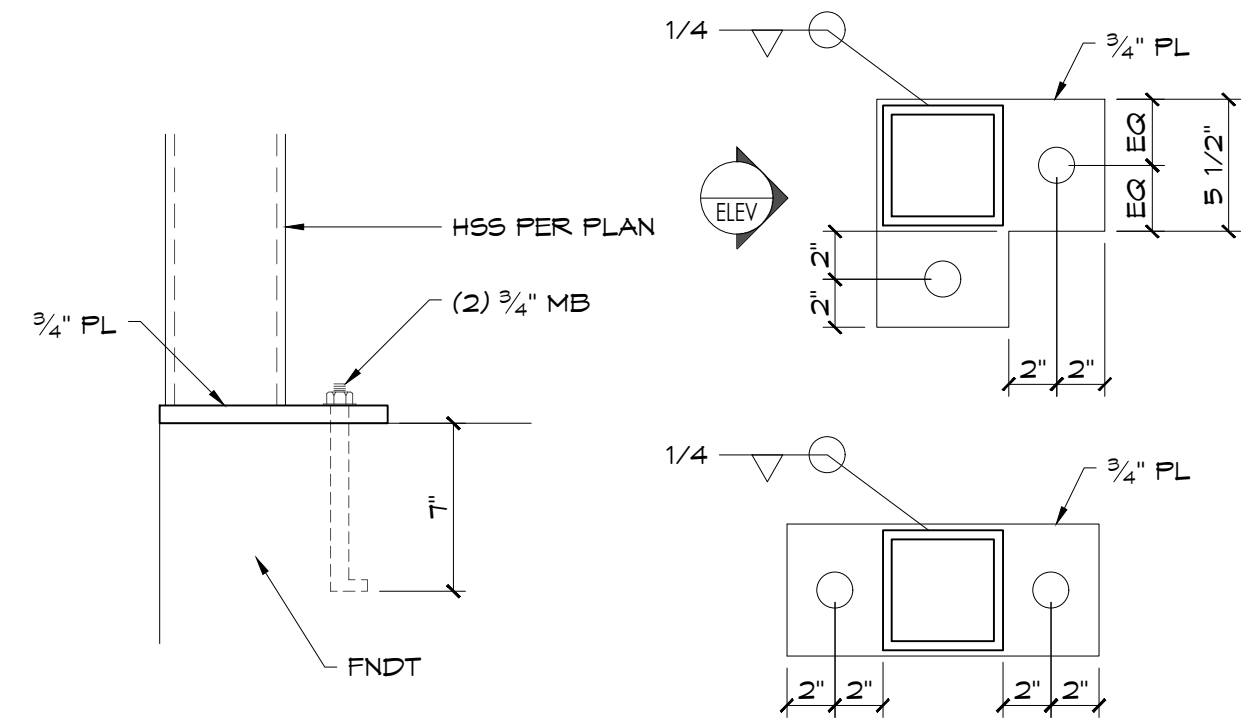
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**B-21-0727CITY OF
 PUYALLUP**

**STEEL FRAMING
 ELEVATIONS**

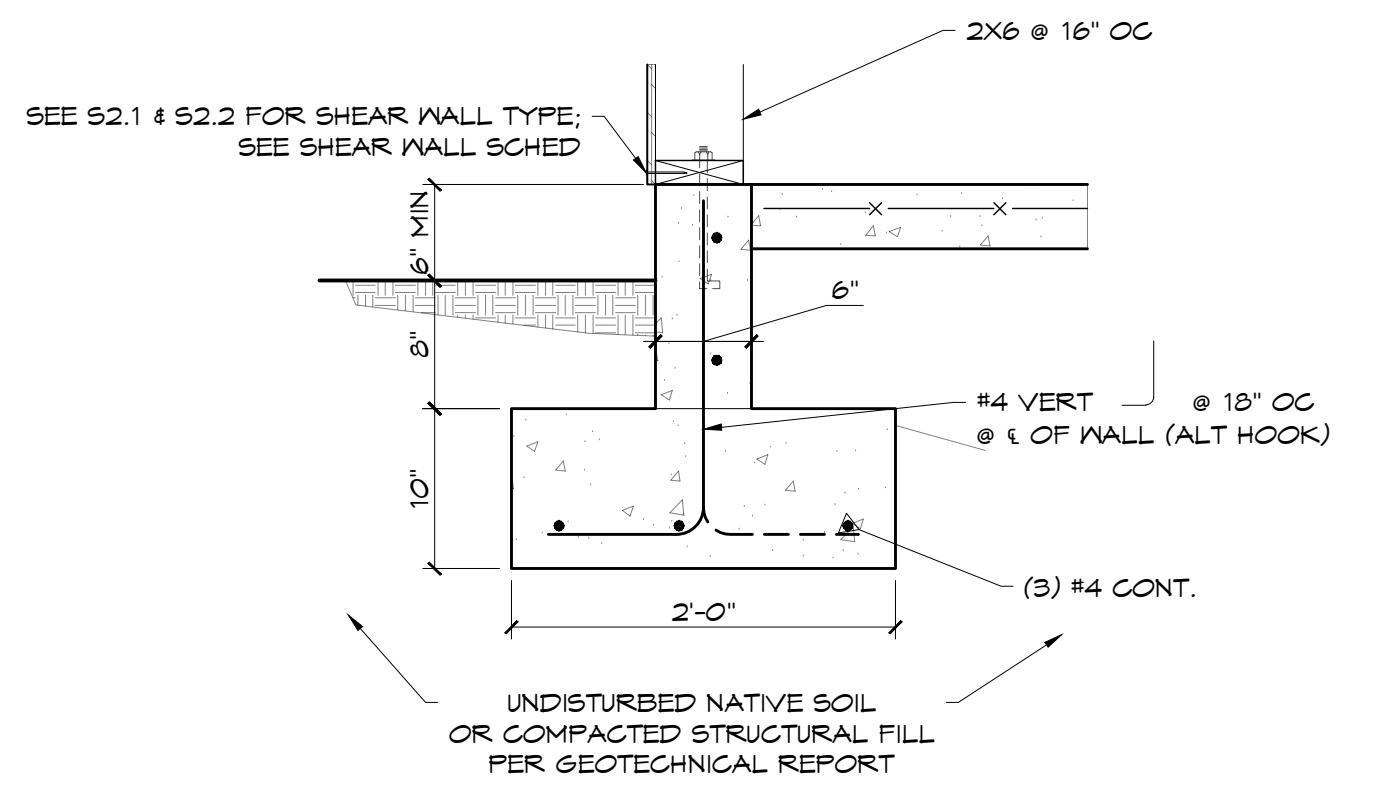
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S2.4



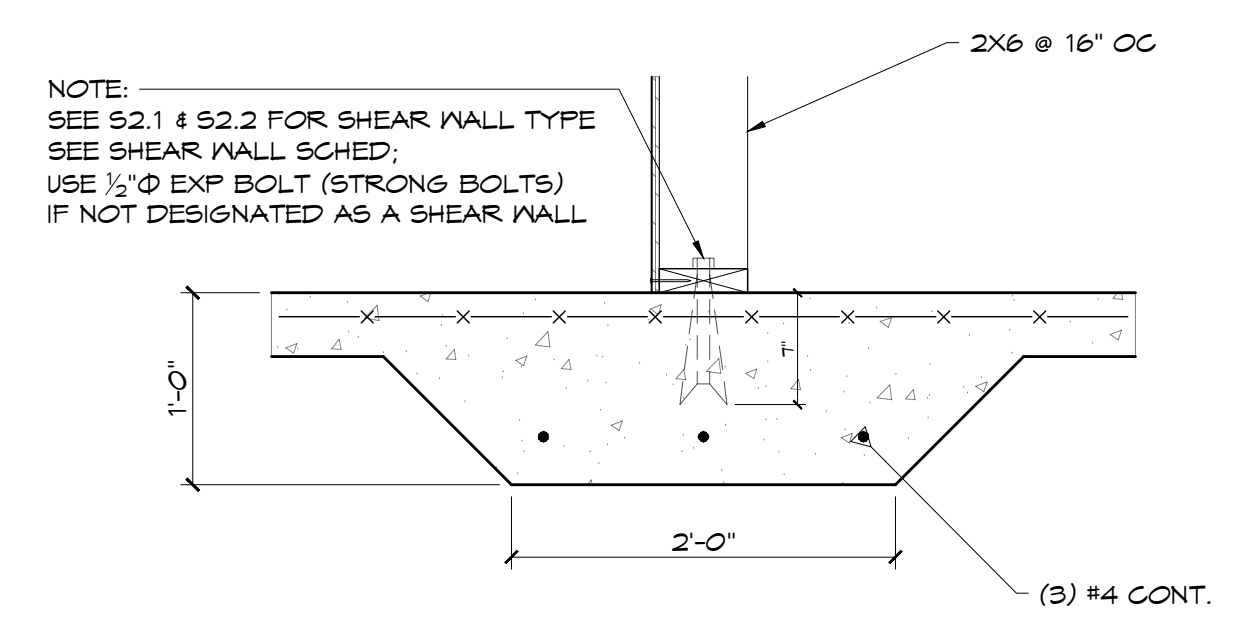
F6 SECTION

(11X17) SCALE: 3/4" = 1'-0"
(22X34) SCALE: 1-1/2" = 1'-0"



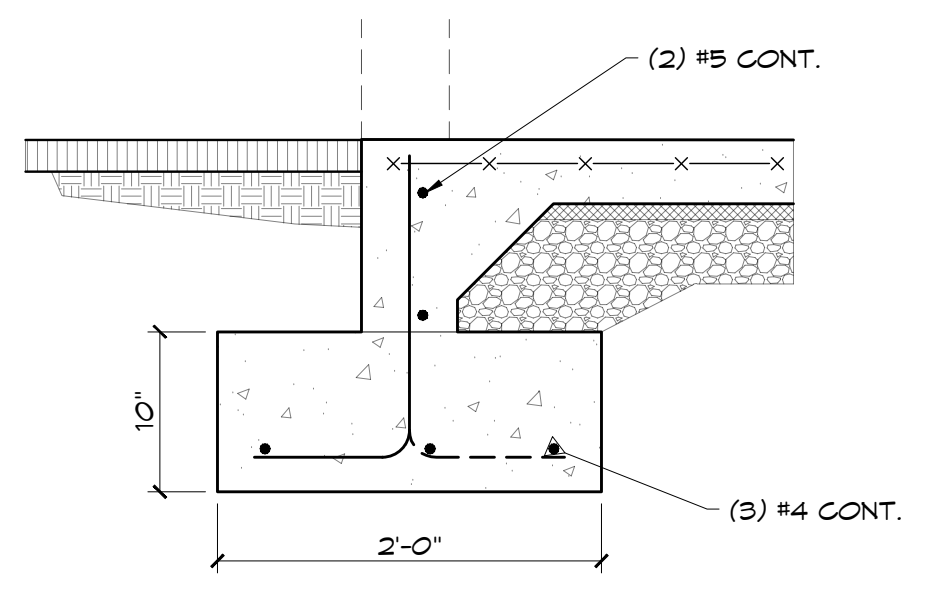
F1 SECTION

(11X17) SCALE: 1/2" = 1'-0"
(22X34) SCALE: 1" = 1'-0"



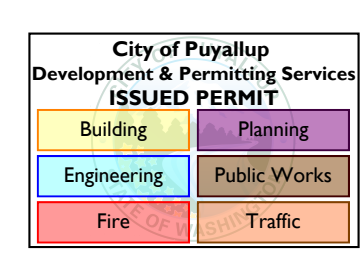
F2 SECTION

(11X17) SCALE: 1/2" = 1'-0"
(22X34) SCALE: 1" = 1'-0"



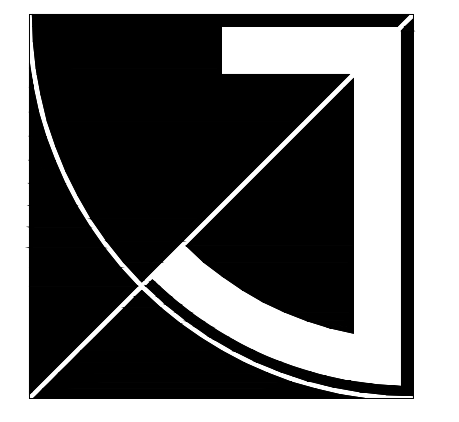
F3 SECTION

(11X17) SCALE: 1/2" = 1'-0"
(22X34) SCALE: 1" = 1'-0"



B-21-0727CITY OF PUYALLUP

F4~F5 NOT IN USE



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PROJECT NUMBER
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DRAWING TYPE

PERMIT DOCUMENTS

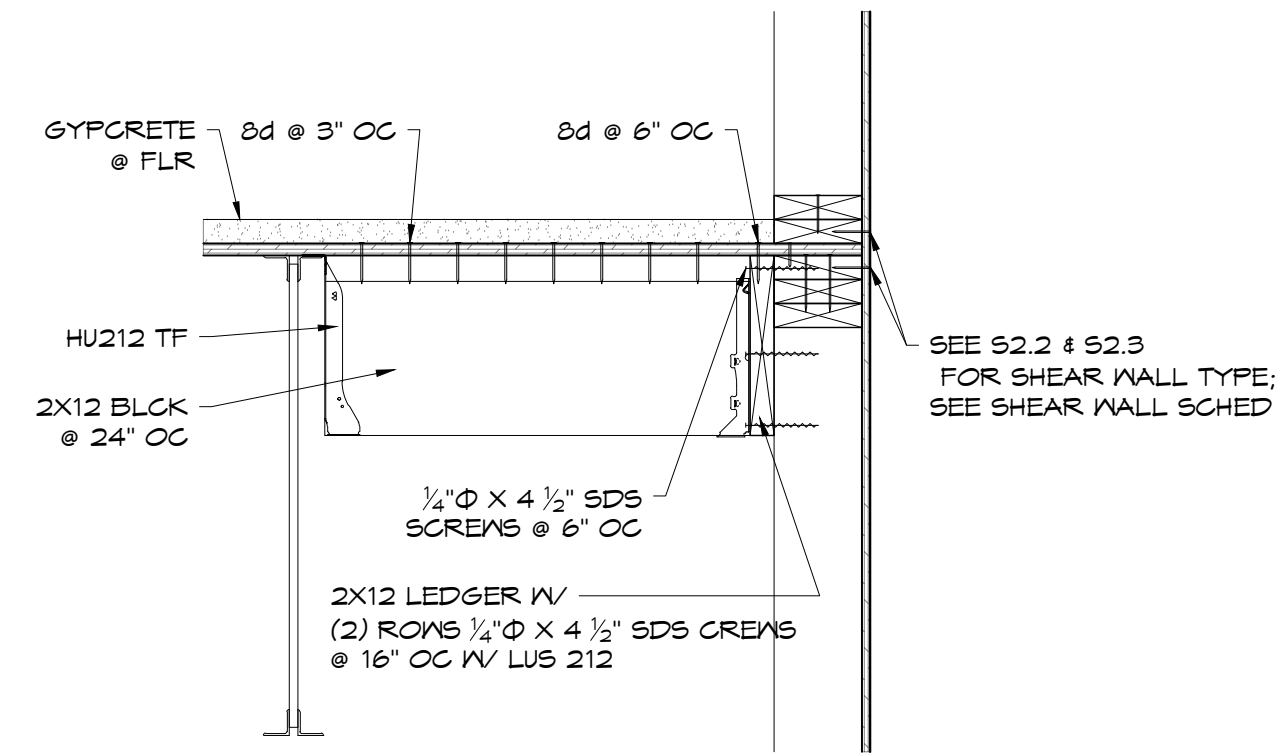
ISSUE DATE	ISSUE DESCRIP.	NO.
09.15.21	PERMIT	_____
12.06.21	REV-CITY	_____
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SHEET TITLE

DETAILS

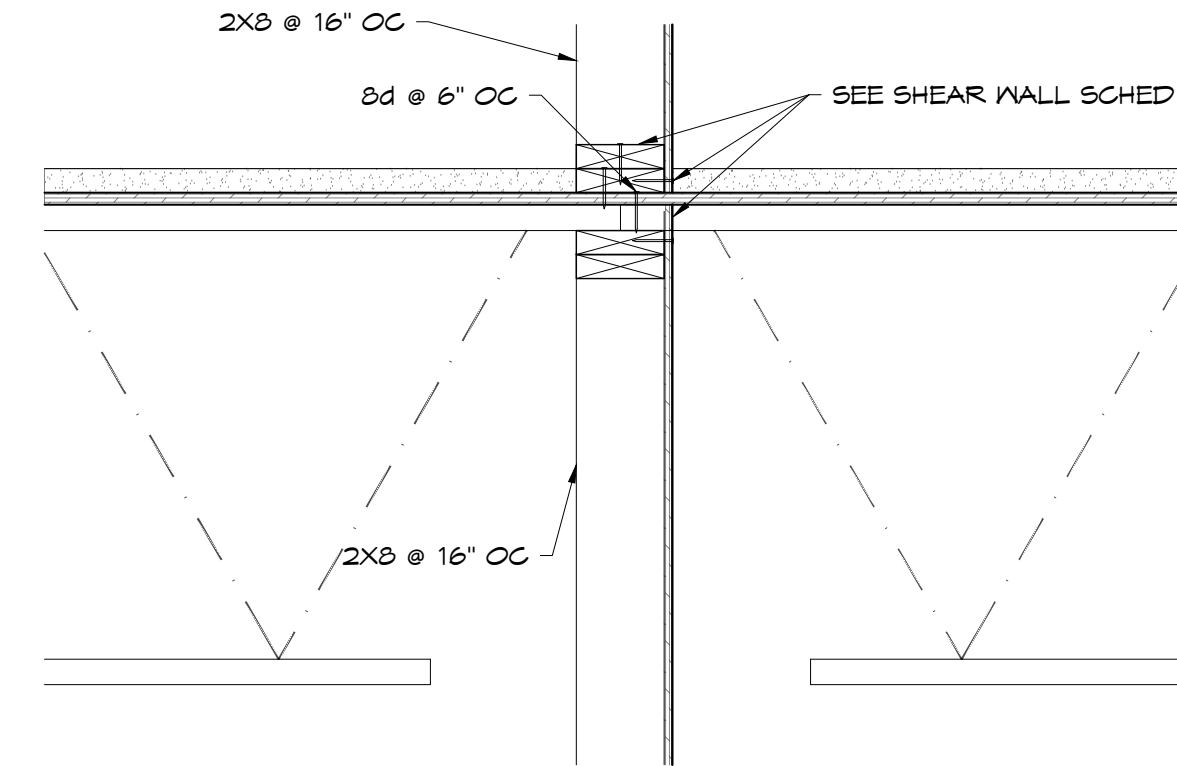
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S3.1



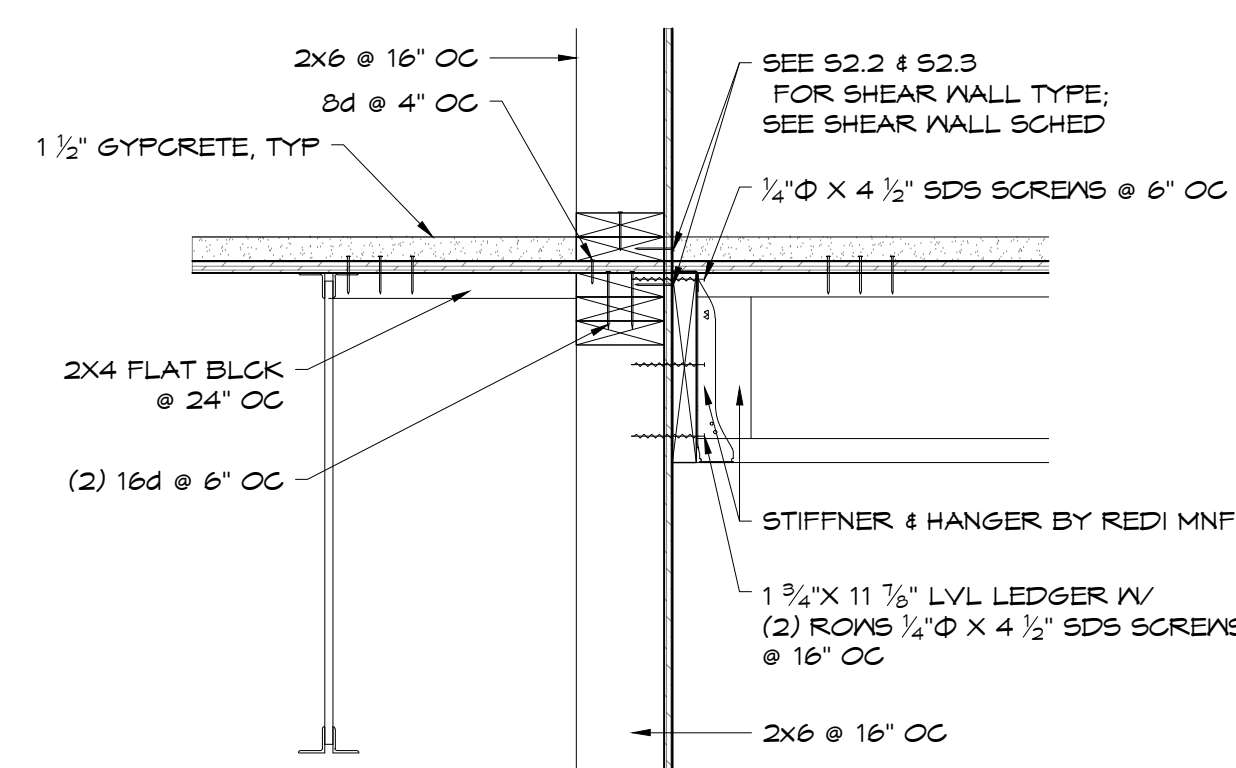
FL7 SECTION

(11X17) SCALE: 1/2" = 1'-0"
(22X34) SCALE: 1" = 1'-0"



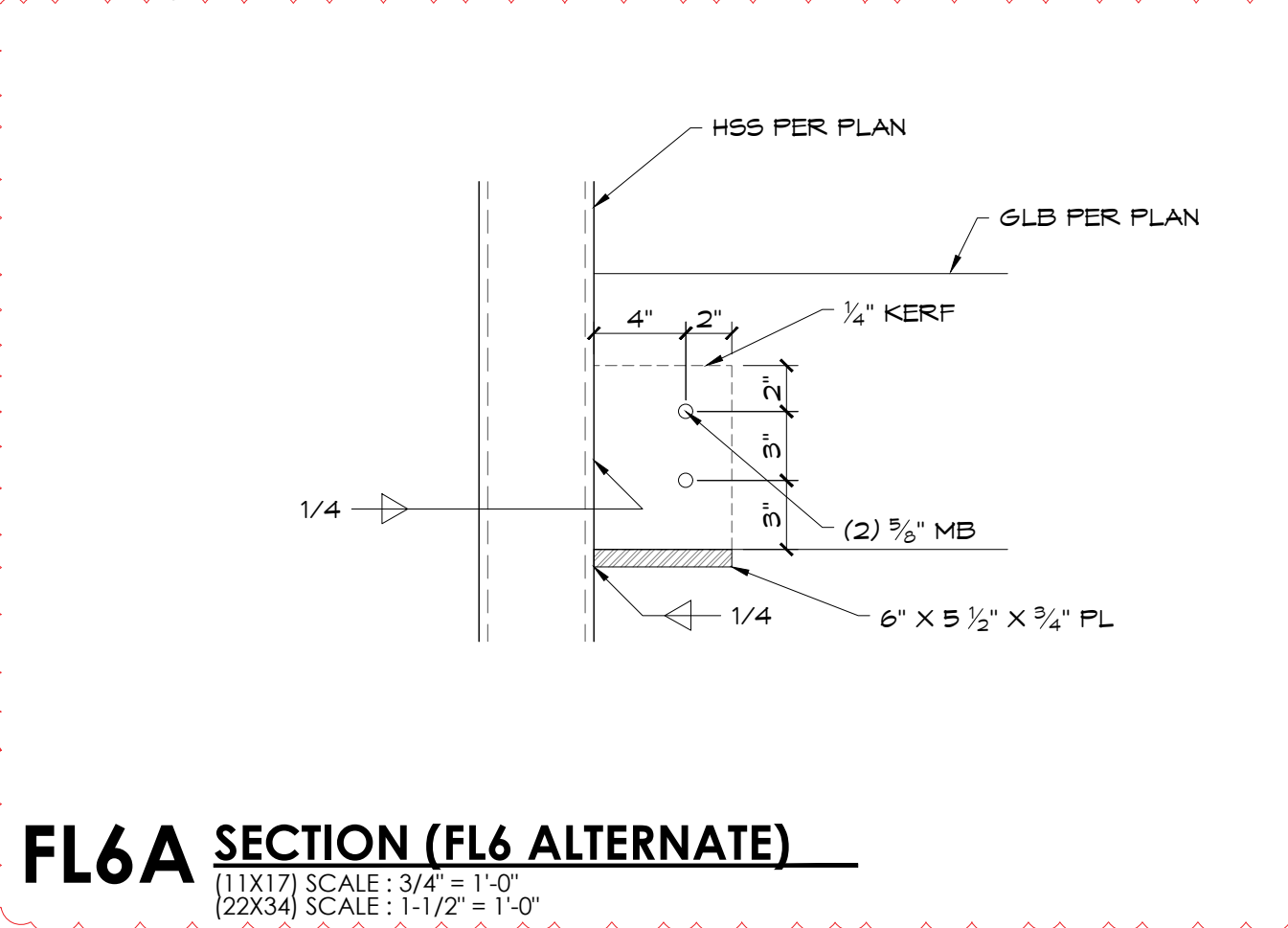
FL8 SECTION

(11X17) SCALE: 1/2" = 1'-0"
(22X34) SCALE: 1" = 1'-0"



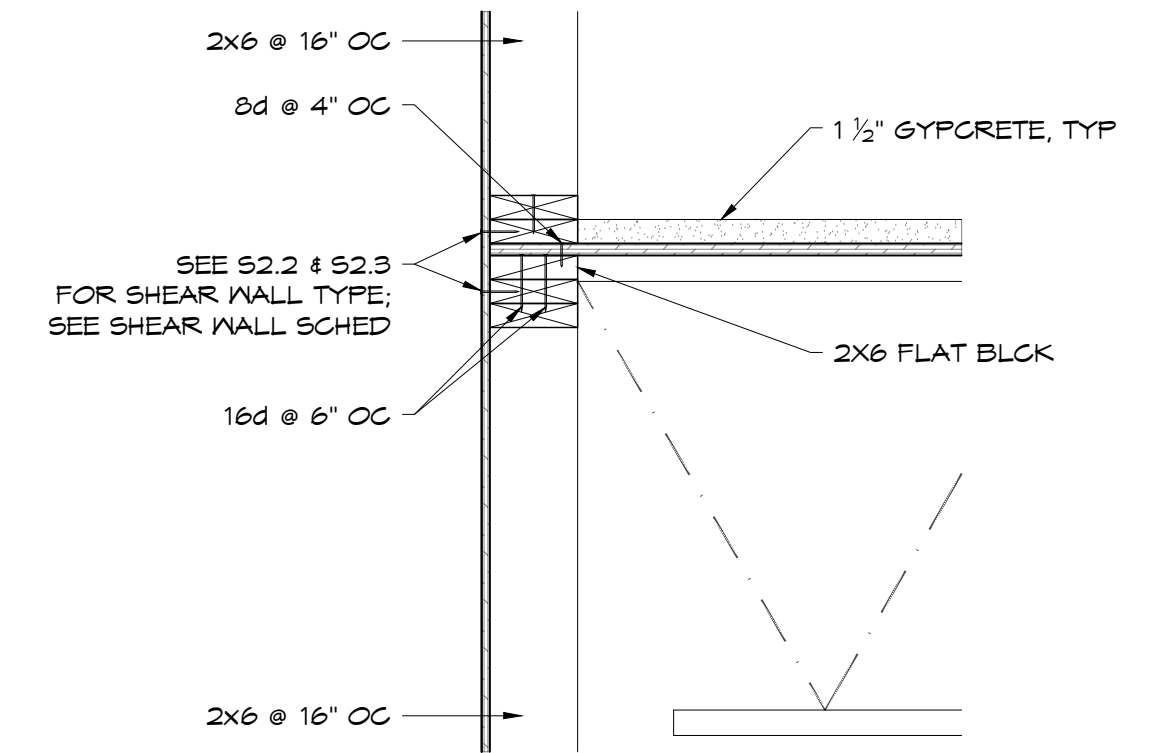
FL9 SECTION

(11X17) SCALE: 1/2" = 1'-0"
(22X34) SCALE: 1" = 1'-0"



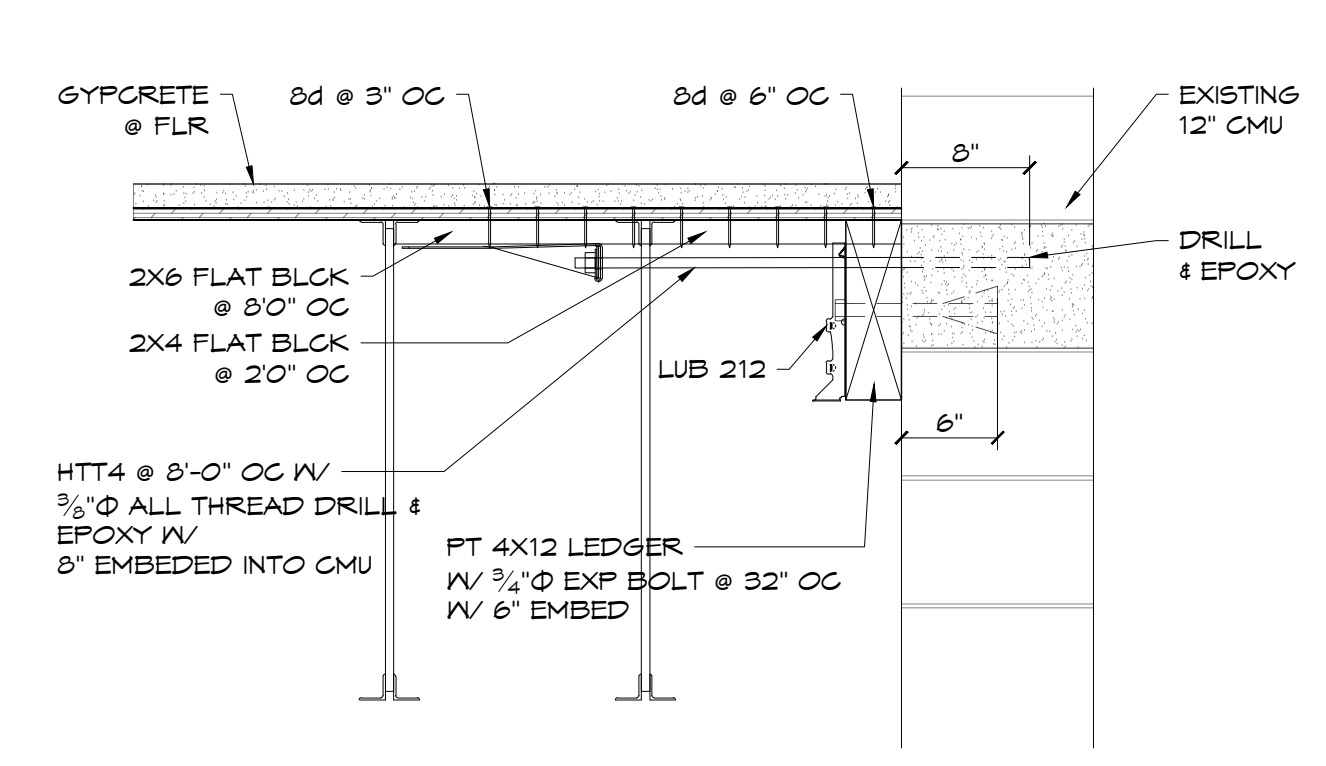
FL6A SECTION (FL6 ALTERNATE)

(11X17) SCALE: 3/4" = 1'-0"
(22X34) SCALE: 1-1/2" = 1'-0"



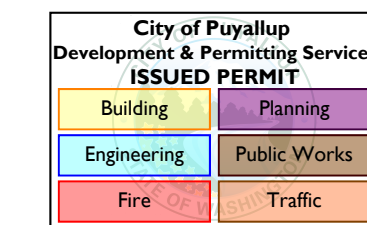
FL1 SECTION

(11X17) SCALE: 1/2" = 1'-0"
(22X34) SCALE: 1" = 1'-0"

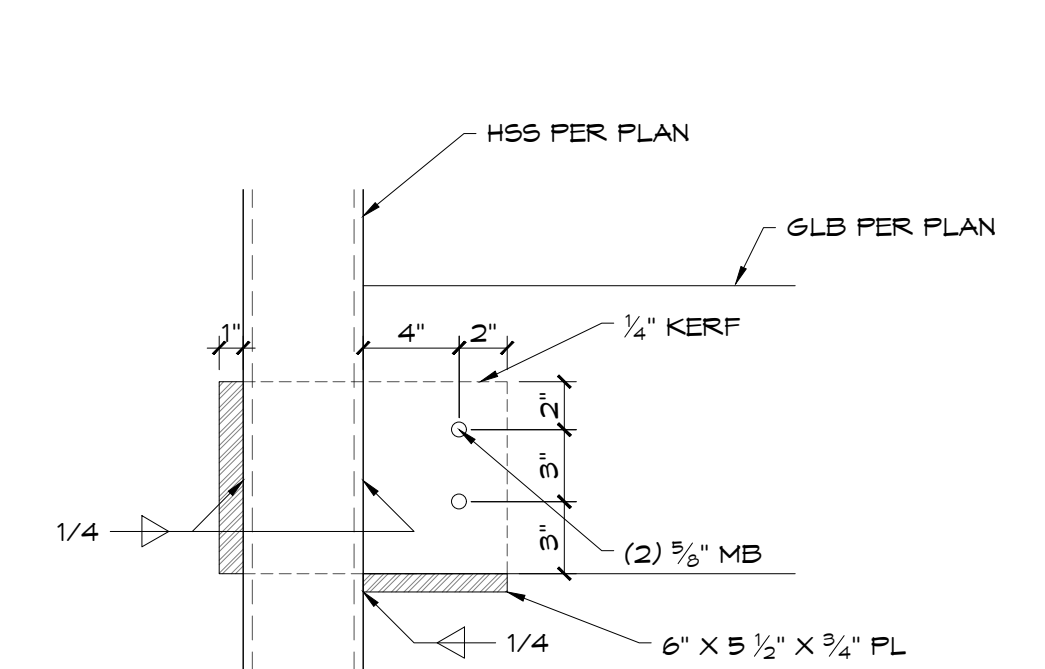


FL2 SECTION

(11X17) SCALE: 1/2" = 1'-0"
(22X34) SCALE: 1" = 1'-0"

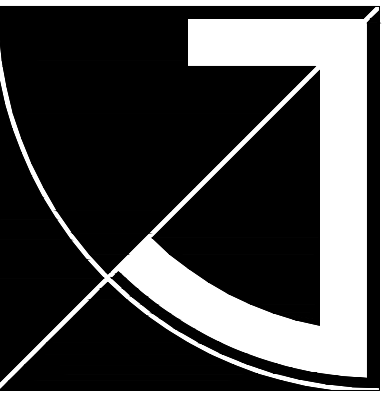


FL3~FL5 NOT IN USE



FL6 SECTION

(11X17) SCALE: 3/4" = 1'-0"
(22X34) SCALE: 1-1/2" = 1'-0"



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DRAWING TYPE

PERMIT DOCUMENTS

ISSUE DATE	ISSUE DESCRIP.	NO.
09.15.21	PERMIT	
12.06.21	REV-CITY	△

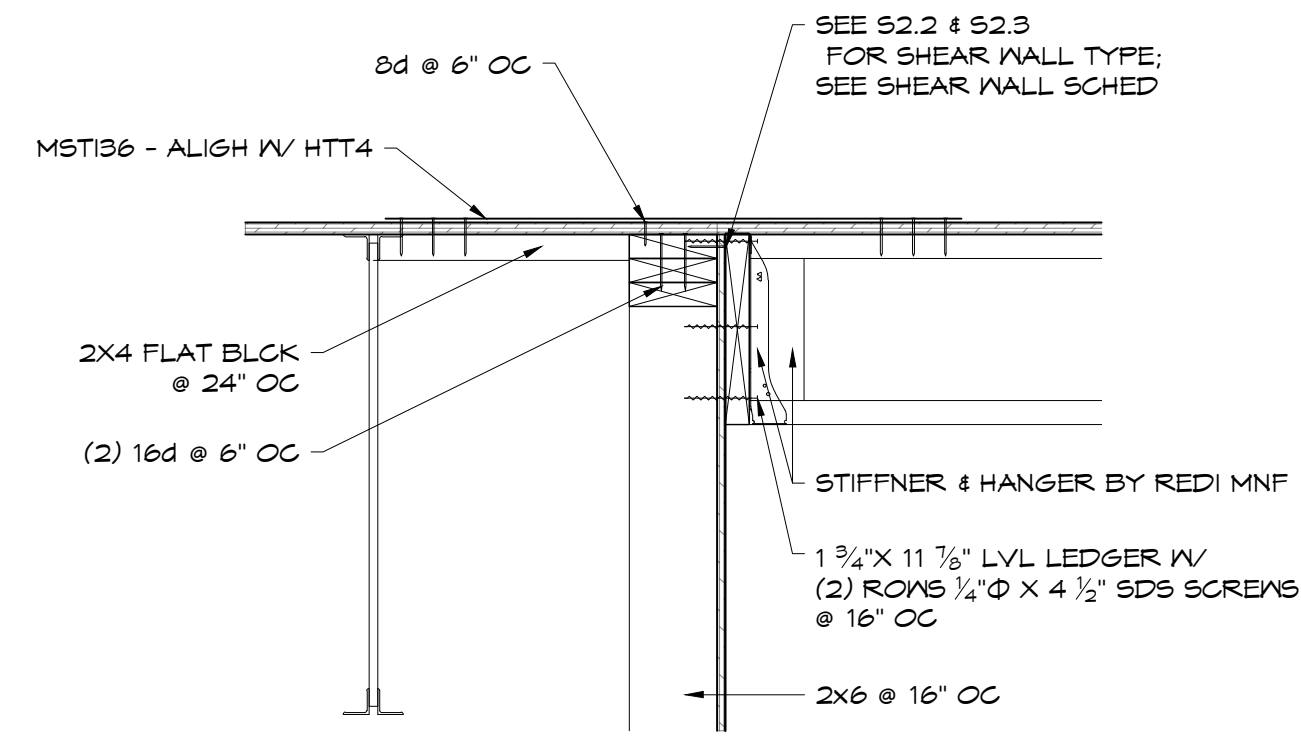
SHEET TITLE

DETAILS

SHEET #

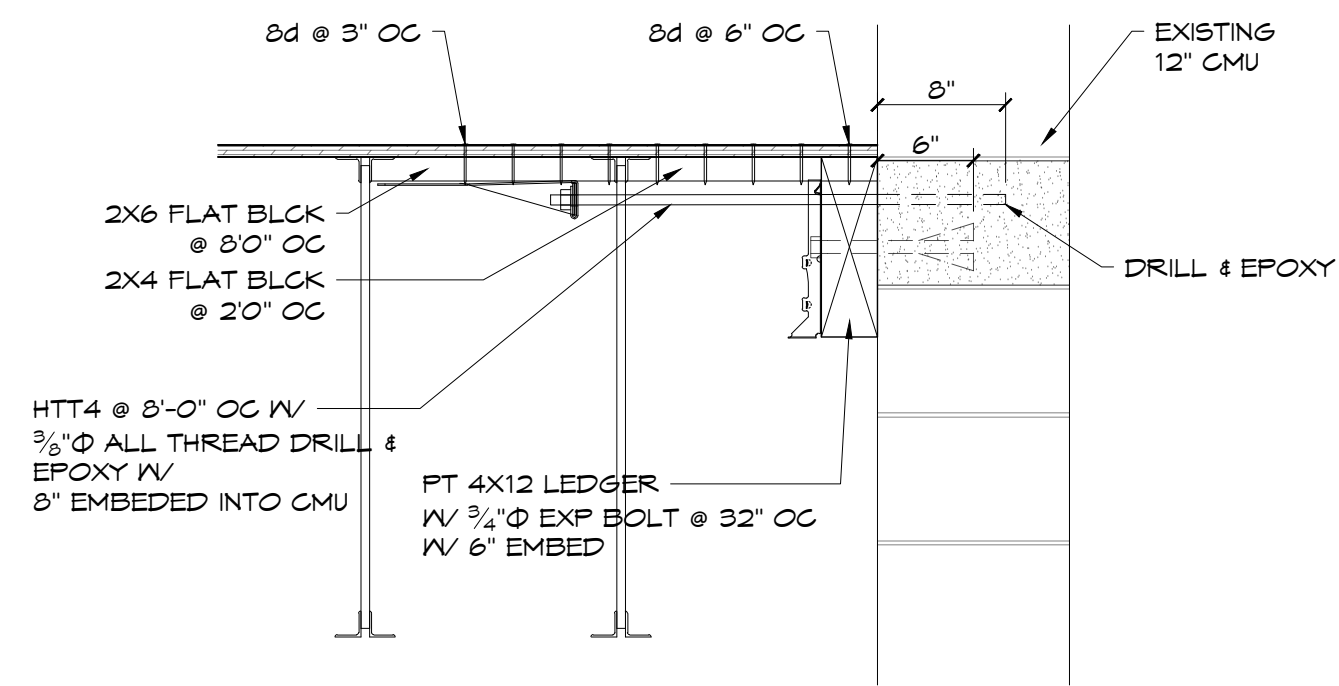
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PUYALLUP**



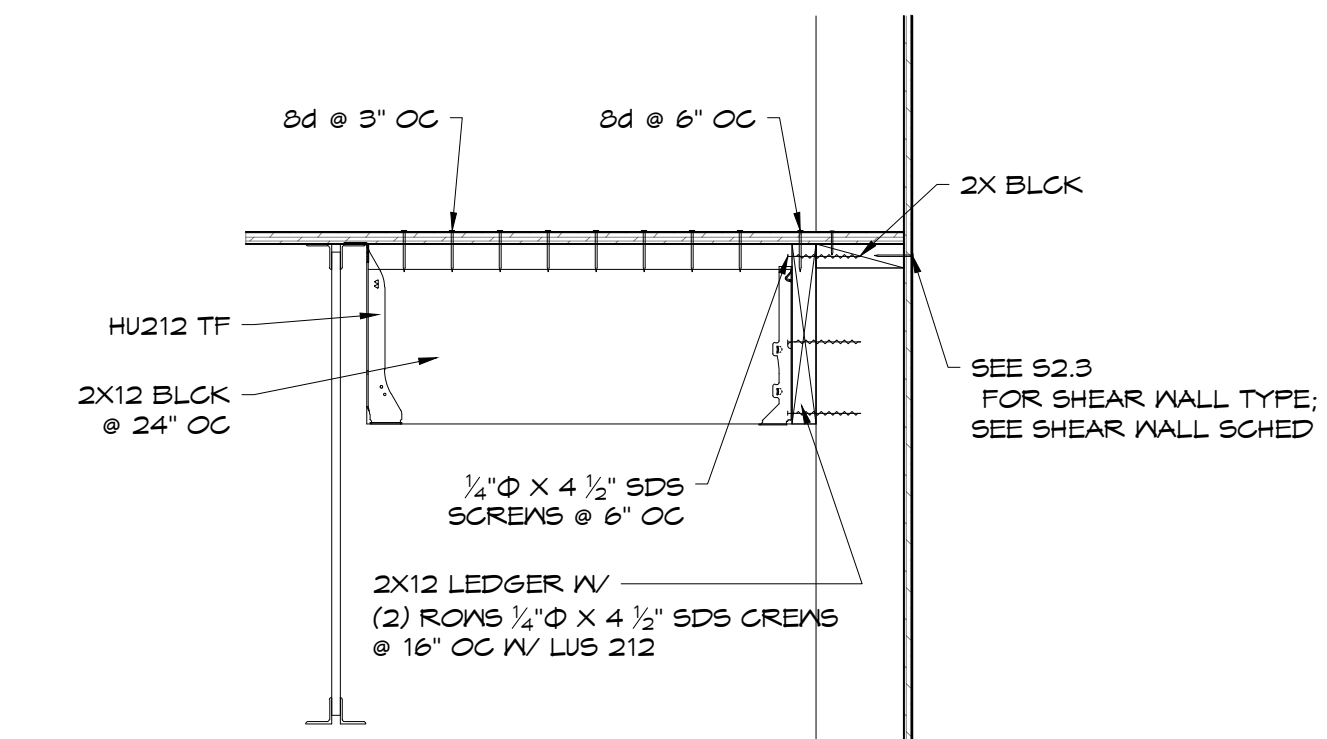
R6 SECTION

(11X17) SCALE: 1/2" = 1'-0"
(22X34) SCALE: 1" = 1'-0"



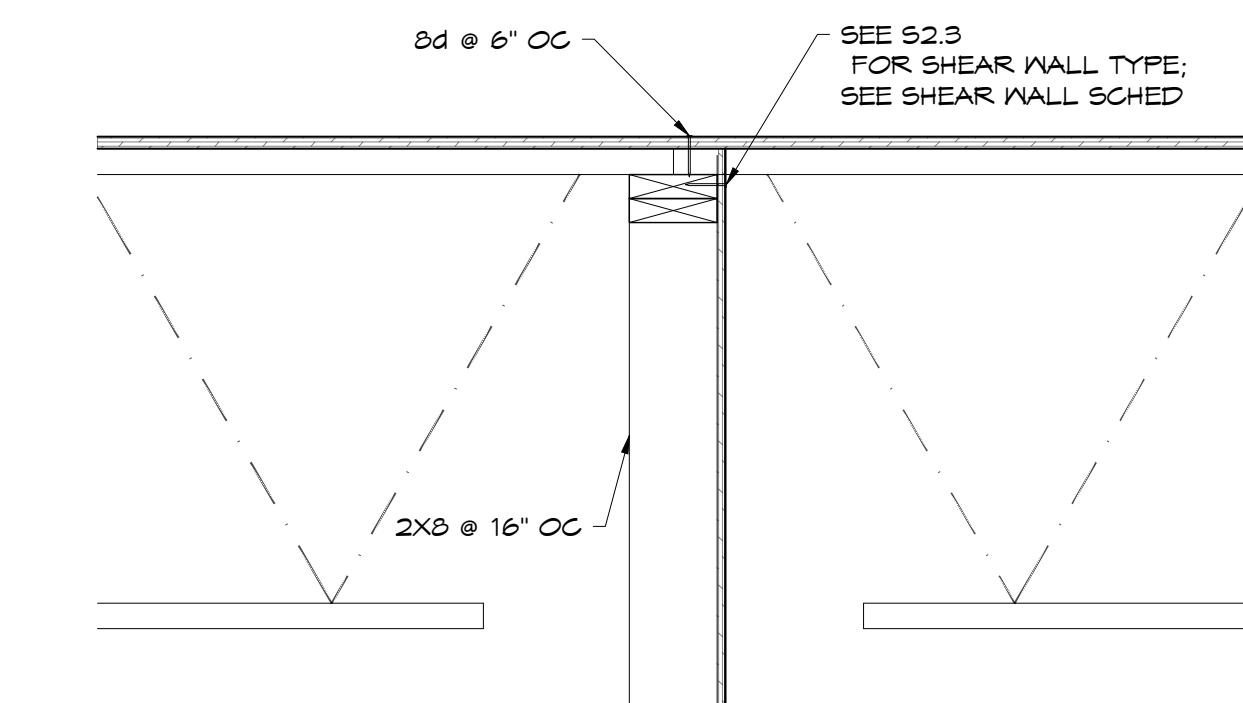
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(22X34) SCALE: 1" = 1'-0"



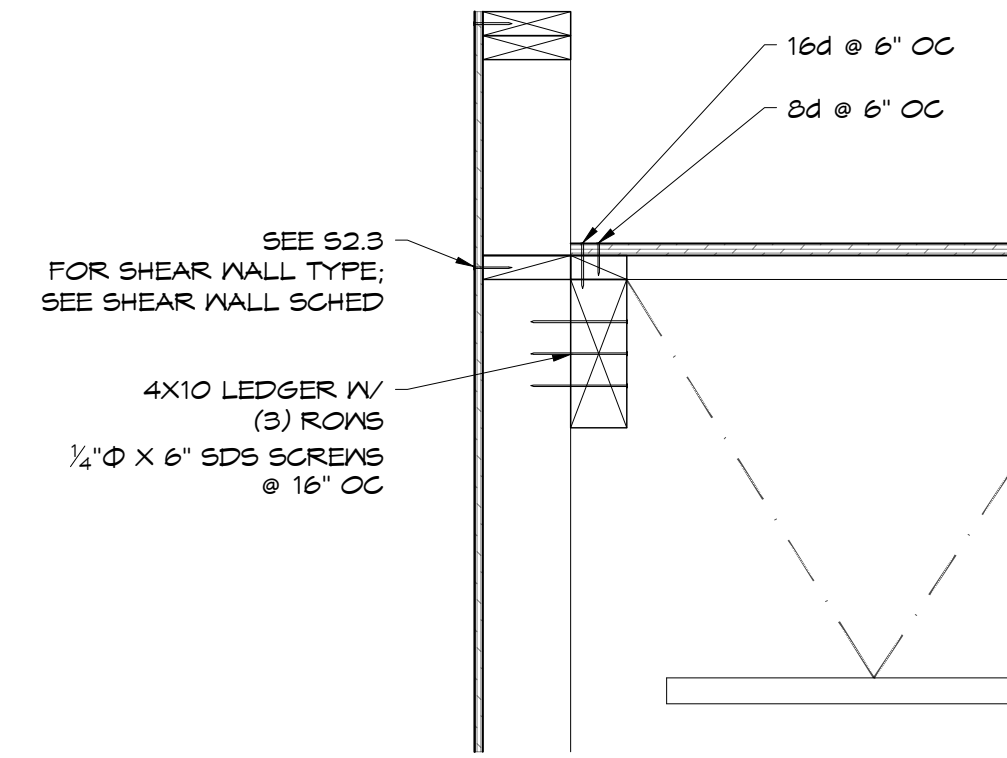
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(22X34) SCALE: 1" = 1'-0"



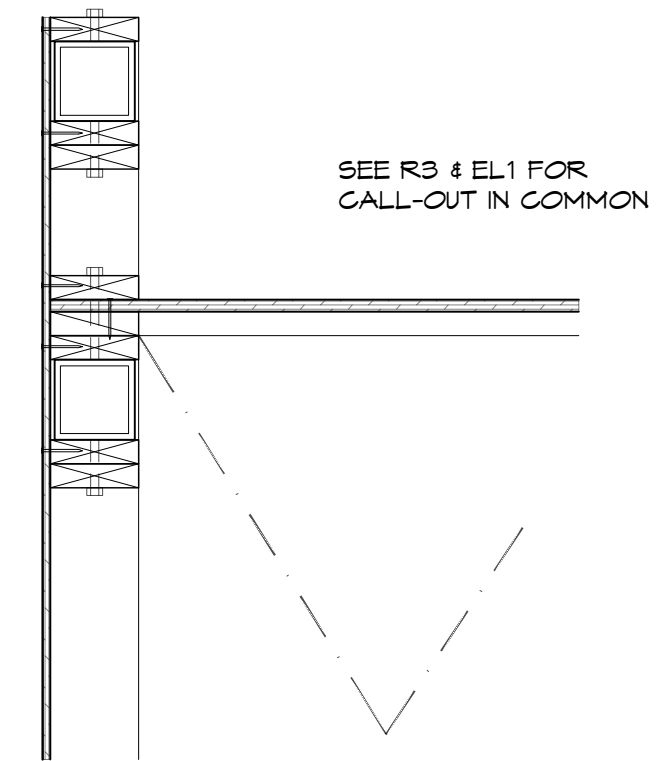
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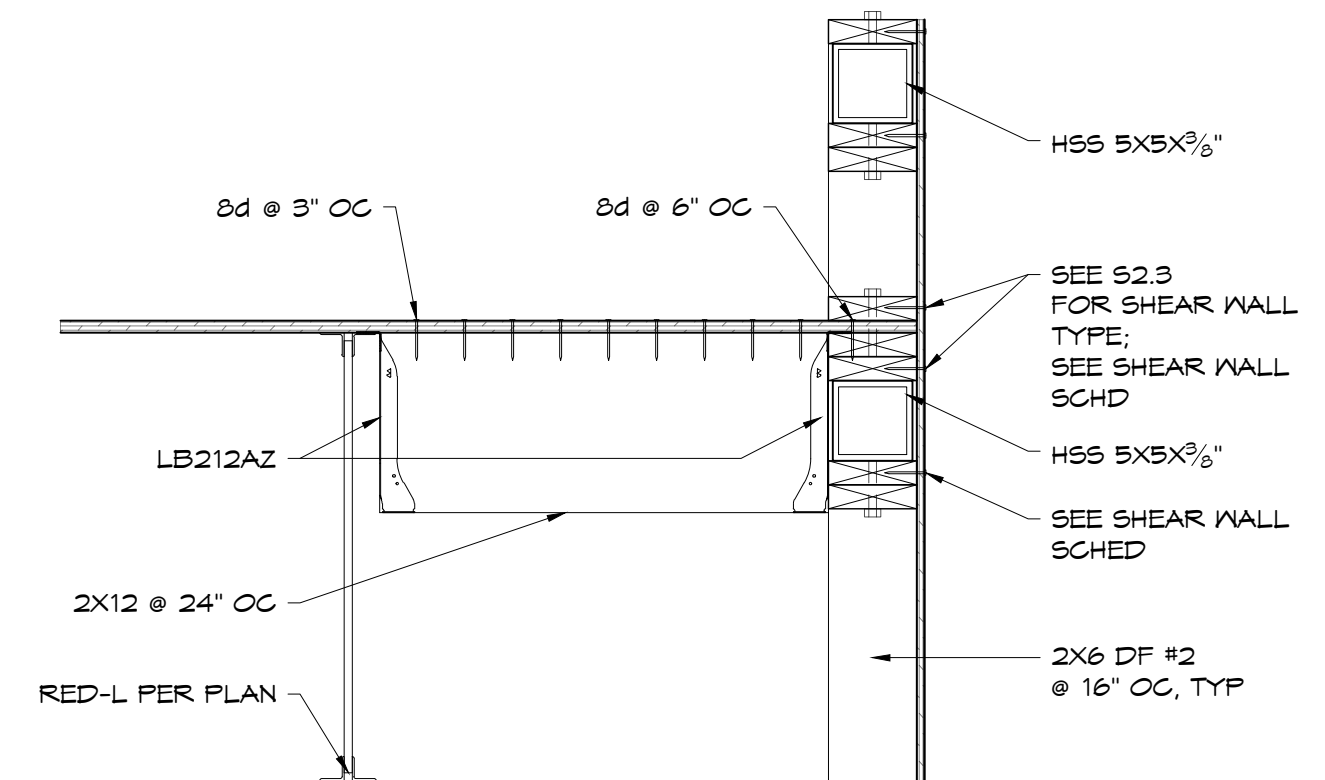
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(22X34) SCALE: 1" = 1'-0"



R2 SECTION

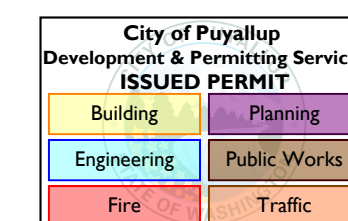
(11X17) SCALE: 1/2" = 1'-0"
(22X34) SCALE: 1" = 1'-0"



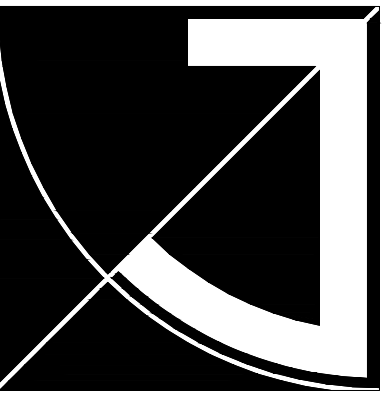
R3 SECTION

(11X17) SCALE: 1/2" = 1'-0"
(22X34) SCALE: 1" = 1'-0"

B-21-0727CITY OF PUYALLUP



R4~R5 NOT IN USE



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SHEET TITLE

DETAILS

SHEET #

S3.3