

THE LEVELLA

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STRUCTURAL NOTES

GENERAL REQUIREMENTS

**BUILDING CODE & REFERENCE STANDARDS:** THE "INTERNATIONAL BUILDING CODE" (IBC), CURRENT EDITION, AS ADOPTED AND MODIFIED BY THE CITY OF MERCER ISLAND, GOVERNS THE DESIGN AND CONSTRUCTION OF THIS PROJECT. REFERENCE TO A SPECIFIC SECTION IN THE CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE MATERIALS REFERENCE STANDARDS NOTED BELOW. THE LATEST EDITION OF THE MATERIALS REFERENCE STANDARDS SHALL BE USED.

**SCOPE OF STRUCTURAL WORK:** STRUCTURAL DESIGN OF REMODEL TO A WOOD FRAMED BUILDING.

**DEFINITIONS:** THE FOLLOWING DEFINITIONS APPLY TO THESE GENERAL NOTES:

- "STRUCTURAL ENGINEER OF RECORD" (EOR) – THE STRUCTURAL ENGINEER WHO IS LEGALLY RESPONSIBLE FOR STAMPING & SIGNING THE STRUCTURAL DOCUMENTS FOR THE PROJECT. THE EOR IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM.
- "SPECIALTY STRUCTURAL ENGINEER" (SSE) – A LICENSED PROFESSIONAL ENGINEER, NOT THE EOR, WHO PERFORMS SPECIALTY STRUCTURAL ENGINEERING SERVICES NECESSARY TO COMPLETE THE STRUCTURE, WHO HAS EXPERIENCE AND TRAINING IN THE SPECIFIC SPECIALTY. THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIER WHO IS RESPONSIBLE FOR THE DESIGN, FABRICATION AND INSTALLATION OF SPECIALTY-ENGINEERED ELEMENTS SHALL RETAIN THE SSE. SUBMITTALS SHALL BE STAMPED AND SIGNED BY THE SSE. DOCUMENTS STAMPED AND SIGNED BY THE SSE SHALL BE COMPLETED BY OR UNDER THE DIRECT SUPERVISION OF THE SSE WITH A PE OR SE LICENSE ISSUED BY THE STATE OF WASHINGTON.
- "DEFERRED SUBMITTALS" – DEFERRED SUBMITTAL IS ENGINEERING WORK TO BE DESIGNED-BY-OTHERS OR BIDDER-DESIGNED.

**NOTE PRIORITIES:** NOTES ON THE INDIVIDUAL DRAWINGS SHALL GOVERN OVER THESE GENERAL NOTES.

**SPECIFICATIONS:** REFER TO THESE NOTES, STRUCTURAL DRAWINGS, AND ARCHITECTURAL DRAWINGS WHICH SERVE AS SPECIFICATIONS FOR THIS PROJECT.

**STRUCTURAL DETAILS:** THE STRUCTURAL DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK.

**ARCHITECTURAL DRAWINGS:** REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION INCLUDING, BUT NOT LIMITED TO: DIMENSIONS, ELEVATIONS, SLOPES, DOOR AND WINDOW OPENINGS, NON-BEARING WALLS, CURTAIN WALLS, STAIRS, ELEVATORS, CURBS, DRAINS, DEPRESSIONS, RAILINGS, WATERPROOFING, FINISHES AND OTHER NONSTRUCTURAL ITEMS.

**STRUCTURAL RESPONSIBILITIES:** THE EOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETED STATE.

**CONTRACTOR RESPONSIBILITIES:** THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA AND WSHA. THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY.

THE CONTRACTOR SHALL SUBMIT PLANS SHOWING THE LOCATION, WEIGHT, SIZE AND ANCHORAGE OF ALL HANGERS SUPPORTING ALL MECHANICAL, ELECTRICAL, PLUMBING OR SPRINKLER LOADS IN EXCESS OF 50 POUNDS. ALL ROOF-MOUNTED EQUIPMENT SHALL BE INCLUDED ON THESE PLANS AND SHALL SHOW THE WEIGHTS, SIZES, MOUNTING/ATTACHMENT DETAILS, AND LOCATIONS. SUBMIT PLANS TO THE EOR FOR REVIEW PRIOR TO INSTALLATION.

**DISCREPANCIES:** IN CASE OF DISCREPANCIES BETWEEN THESE GENERAL NOTES, THE CONTRACT DRAWINGS AND SPECIFICATIONS, AND/OR REFERENCE STANDARDS, THE EOR SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE EOR BEFORE PROCEEDING WITH THE WORK. ACCORDINGLY, ANY CONFLICT IN OR BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN THE CONTRACT PRICE.

**SITE VERIFICATION:** THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR CONSTRUCTION. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE EOR BEFORE PROCEEDING WITH THE WORK. ALL UNDERGROUND UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO EXCAVATION OR DRILLING.

**ADJACENT UTILITIES:** THE CONTRACTOR SHALL DETERMINE THE LOCATIONS OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO EXCAVATION. ANY UTILITY INFORMATION SHOWN ON THE DRAWINGS AND DETAILS IS APPROXIMATE AND NOT NECESSARILY COMPLETE.

DESIGN CRITERIA

**CONSTRUCTION LOADS:** LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOT EXCEED THE DESIGN LOADS OR THE CAPACITY OF THE PARTIALLY COMPLETED CONSTRUCTION.

**SNOW LOAD:** THE ROOF SNOW LOAD IS DETERMINED BY USING CHAPTER 7 OF ASCE 7-16 IN ACCORDANCE WITH IBC SECTION 1608 AND WITH THE FOLLOWING FACTORS:

MINIMUM ROOF DESIGN LOAD 25 PSF WITHOUT DRIFT  
GROUND SNOW LOAD, PG = 25 PSF  
IMPORTANCE FACTOR, IS = 1.0  
FLAT ROOF SNOW LOAD, PF = 25 PSF  
THERMAL FACTOR, CT = 1.0

**WIND DESIGN:** WIND LOAD IS DETERMINED USING CHAPTER 26 OF ASCE 7-16 IN ACCORDANCE WITH IBC SECTION 1609 WITH THE FOLLOWING FACTORS:

BASIC WIND SPEED (3-SECOND GUST) V = 98 MPH  
WIND IMPORTANCE FACTOR IW = 1.0 RISK-CATEGORY = II  
EXPOSURE CATEGORY = C GCPI = ±0.18 Kzt=1.0

**SEISMIC DESIGN:** EARTHQUAKE DESIGN IS DETERMINED USING CHAPTER 12 ASCE 7-16 IN ACCORDANCE WITH IBC CHAPTER 16 WITH THE FOLLOWING FACTORS:

IMPORTANCE FACTOR IE = 1.0  
RISK CATEGORY = II  
SS = 1.387 G  
S1 = 0.487 G  
SITE CLASS = D SDS = 1.118 G  
SD1 = 1.118 G  
SEISMIC DESIGN CATEGORY = D

WOOD STRUCTURE (SUPER-STRUCTURE)

- BASIC SEISMIC FORCE RESISTING SYSTEM: A-15 (BEARING WALL SYSTEMS) LIGHT-FRAMED WALLS WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE, PER ASCE 7-16, SECTION 12.8
- R = 6.5
- CS = 0.172
- CD = 4
- W = 2.5

**DESIGN BASE SHEAR:** DESIGN BASE WIND GOVERNED IV/S V = 16.6K, E/W V = 17.4K.

DEFLECTIONS:

FLOOR TOTAL LOAD DEFLECTION LIMIT: L/240  
FLOOR LIVE LOAD DEFLECTION LIMIT: L/360  
ROOF TOTAL LOAD DEFLECTION LIMIT: L/240  
ROOF LIVE LOAD DEFLECTION LIMIT: L/360

LIVE LOADS:

ROOF (LIVE) 20 PSF  
ROOF (SNOW) 35 PSF  
FLOOR (LIVE) 40 PSF  
BALCONIES AND DECKS 60 PSF

**DEFERRED SUBMITTAL LOADS:** ALL PRE-ENGINEERED, PRE-FABRICATED, PRE-MANUFACTURED, OR OTHER PRODUCTS DESIGNED BY OTHERS SHALL BE DESIGNED FOR THE TRIBUTARY DEAD AND LIVE LOADS PLUS WIND, EARTHQUAKE, AND COMPONENT, AND CLADDING LOADS WHEN APPLICABLE. DESIGN SHALL CONFORM TO THE PROJECT DRAWINGS AND SPECIFICATIONS, REFERENCE STANDARDS, AND GOVERNING CODES.

SUBMITTALS

**SUBMITTALS:** SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/EOR PRIOR TO ANY FABRICATION OR CONSTRUCTION FOR ALL STRUCTURAL ITEMS AS NOTED BELOW. THE CONTRACTOR SHALL REVIEW AND PLACE A SHOP DRAWINGS STAMP ON THE SUBMITTAL BEFORE FORWARDING TO THE EOR. SUBMITTALS SHALL BE MADE IN TIME TO PROVIDE A MINIMUM OF ONE WEEK FOR REVIEW BY THE EOR. ADDITIONAL SUBMITTALS REQUIRED FOR THIS PROJECT ARE SPECIFIED IN THE SPECIFIC SECTIONS BELOW. REFERENCE THE INDIVIDUAL MATERIAL SECTION FOR SPECIFIC INFORMATION TO BE INCLUDED IN THE SUBMITTAL.

IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER WHO IS RESPONSIBLE FOR THE DESIGN.

EMBEDDED STEEL ITEMS  
MILL CERTIFICATIONS FOR PRIMARY FRAMING ELEMENTS

**ALTERNATES:** PRODUCT OR MANUFACTURER COMPONENTS SPECIFIED IN THESE DRAWINGS ARE USED AS THE BASIS OF DESIGN FOR THIS PROJECT. ALTERNATES FOR SPECIFIED ITEMS MAY BE SUBMITTED TO THE EOR FOR REVIEW. HOWEVER, CONTRACTOR SHALL SUBMIT A CURRENT ICC-ESR/IAPMO-ER REPORT IDENTIFYING THAT AN ALTERNATIVE COMPONENT HAS THE SAME OR GREATER LOAD CAPACITY THAN THE SPECIFIED ITEM.

**SHOP DRAWING REVIEW:** REVIEW BY THE ARCHITECT/EOR IS FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT AND THE CONTRACT DOCUMENTS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE EOR, AND THEREFORE, MUST BE VERIFIED BY THE GENERAL CONTRACTOR. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOR DEPARTURES THEREFROM. THE CONTRACTOR REMAINS RESPONSIBLE FOR DETAILS AND ACCURACY; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES OF ASSEMBLY; AND FOR PERFORMING WORK IN A SECURE MANNER. WHEN SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) DIFFER FROM OR ADD TO THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS THEY SHALL BE DESIGNED AND STAMPED BY THE RESPONSIBLE SSE. ALLOW ONE WEEK FOR EOR REVIEW TIME.

**DEFERRED SUBMITTALS:** PER IBC SECTION 107.3.4.1, DRAWINGS, CALCULATIONS, AND PRODUCT DATA FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED-BY-OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF THE WASHINGTON STATE REGISTERED PROFESSIONAL ENGINEER (SSE) WHO IS RESPONSIBLE FOR THE DESIGN AND SHALL BE SUBMITTED TO THE ARCHITECT/EOR AND THE BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION. ALLOW ONE WEEK FOR EOR REVIEW TIME.

THE SSE SHALL SUBMIT STAMPED AND SIGNED CALCULATIONS AND SHOP DRAWINGS TO THE EOR FOR REVIEW. REVIEW OF THE SSE'S SHOP DRAWINGS IS FOR GENERAL COMPLIANCE WITH DESIGN CRITERIA AND COMPATIBILITY WITH THE DESIGN OF THE PRIMARY STRUCTURE AND DOES NOT RELIEVE THE SSE OF RESPONSIBILITY FOR THAT DESIGN. ALL NECESSARY BRACING, TIES, ANCHORAGE, AND PROPRIETARY PRODUCTS SHALL BE FURNISHED AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS OR THE SSE'S DESIGN DRAWINGS AND CALCULATIONS. SUBMITTED DRAWINGS SHALL INDICATE ALL REACTION FORCES IMPARTED TO THE PRIMARY STRUCTURE. THE DESIGN OF THE CONNECTION TO THE PRIMARY STRUCTURE IS THE RESPONSIBILITY OF THE SUPPLIER AND SSE. SUBMITTED CALCULATIONS ARE FOR CURSORY REVIEW ONLY AND WILL GENERALLY NOT BE RETURNED.

**NON-STRUCTURAL COMPONENTS:** DESIGN, DETAILING AND ANCHORAGE OF ALL NONSTRUCTURAL COMPONENTS SHALL BE IN ACCORDANCE WITH ASCE 7-10, CHAPTER 13 AND THE PROJECT SPECIFICATIONS. NONSTRUCTURAL COMPONENTS DESIGNED BY OTHERS SHALL NOT INDUCE TORSIONAL LOADING INTO SUPPORTING STEEL STRUCTURAL MEMBERS WITHOUT ADDITIONAL BRACING OF THOSE MEMBERS TO ELIMINATE TORSIONAL FORCES. TORSIONAL BRACING SHALL BE DESIGNED BY THE NONSTRUCTURAL COMPONENT DESIGNER AND APPROVED BY THE EOR. ANCHORAGE TO THE PRIMARY STRUCTURE IS PER THE BIDDER-DESIGN CONTRACTOR OR SUPPLIER.

TESTS & INSPECTIONS

**INSPECTIONS:** ALL CONSTRUCTION IS SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL IN ACCORDANCE WITH IBC SEC 110. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL. SUBMIT COPIES OF ALL INSPECTION REPORTS TO THE ARCHITECT/EOR FOR REVIEW. THE BUILDING OFFICIAL MAY ACCEPT INSPECTION OF AND REPORTS BY APPROVED INSPECTION AGENCIES IN LIEU OF BUILDING OFFICIAL'S INSPECTIONS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF BUILDING OFFICIAL TO USE THE THIRD-PARTY INSPECTION AGENCY AND CONTRACTOR SHALL ALERT THE ARCHITECT/EOR AS SUCH.

**SPECIAL INSPECTIONS:** IN ADDITION TO THE INSPECTIONS REQUIRED BY IBC SEC 110, A SPECIAL INSPECTOR SHALL BE HIRED BY THE OWNER AS AN INDEPENDENT THIRD-PARTY INSPECTOR TO PERFORM THE SPECIAL INSPECTIONS PER IBC CH. 17. SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN APPROVED TESTING AGENCY AS OUTLINED IN THE SPECIAL INSPECTION SCHEDULE, THE CONTRACT DOCUMENTS, AND/OR THE PROJECT SPECIFICATION. SPECIAL INSPECTIONS SHALL MEET THE REQUIREMENTS OUTLINES IN THE SPECIFIC MATERIALS SECTIONS OF IBC SEC 1705. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE INSPECTIONS, PER THE CITY/BUILDING OFFICIAL.

SPECIAL INSPECTIONS SHALL BE PERFORMED PER THE STRUCTURAL INSPECTION SCHEDULE.

SOILS AND FOUNDATIONS

**REFERENCE STANDARDS:** CONFORM TO IBC CHAPTER 18 "SOILS AND FOUNDATIONS."

**GEOTECHNICAL INSPECTION:** SITE SOIL CONDITIONS, FILL PLACEMENT, AND LOAD-BEARING REQUIREMENTS SHALL BE AS REQUIRED BY SECTION 1705.6 AND TABLE 1705.6 AND/OR AS REQUIRED IN THE GEOTECHNICAL REPORT.

**DESIGN SOIL VALUES:**  
ALLOWABLE SOIL BEARING PRESSURE NEW & EXIST FOUNDATIONS  
1500 PSF DL + LL

**SLABS-ON-GRADE & FOUNDATIONS:** ALL SLABS-ON-GRADE AND FOUNDATIONS SHALL BEAR ON STRUCTURAL COMPACTED FILL OR COMPETENT NATIVE SOIL PER THE GEOTECHNICAL REPORT OR AS NOTED IN THESE DOCUMENTS. EXTERIOR PERIMETER FOOTINGS SHALL BEAR NOT LESS THAN 18 INCHES BELOW FINISH GRADE, OR AS REQUIRED BY THE GEOTECHNICAL ENGINEER AND THE BUILDING OFFICIAL. INTERIOR FOOTINGS SHALL BEAR NOT LESS THAN 12 INCHES BELOW FINISH FLOOR.

**FOUNDATION STEM WALLS:** UNLESS OTHERWISE NOTED ON THE DRAWINGS, THE MAXIMUM UNBALANCED SOIL CONDITION FOR ALL FOUNDATION STEM WALLS (DIFFERENCE IN ELEVATION BETWEEN INTERIOR AND EXTERIOR SOIL GRADES) SHALL BE 2'-6". MAINTAIN A MINIMUM 8" SEPARATION BETWEEN FINISH GRADE AND UNTREATED WOOD FRAMING.

**BACKFILLING:** BACKFILL BEHIND RETAINING AND FOUNDATION WALLS SHALL BE OF FREE-DRAINING MATERIAL PLACED IN MAXIMUM LOOSE LIFTS OF 12" OR AS DIRECTED BY THE GEOTECHNICAL REPORT. BACKFILL BEHIND WALLS SHALL NOT BE PLACED BEFORE THE WALL IS PROPERLY SUPPORTED BY THE FLOOR SLAB OR TEMPORARY BRACING. BACKFILL SHALL BE COMPACTED USING HAND-OPERATED EQUIPMENT ONLY. THE CONTRACTOR SHALL REFRAIN FROM OPERATING HEAVY EQUIPMENT BEHIND RETAINING AND FOUNDATION WALLS WITHIN A DISTANCE EQUAL TO OR GREATER THAN THE HEIGHT OF THE WALL, UNLESS OTHERWISE APPROVED BY THE EOR. ALL TOPSOIL ORGANICS AND LOOSE SURFACE SOIL SHALL BE REMOVED FROM BENEATH FILL SUPPORTING CONCRETE SLAB OR PAVING.

CAST-IN-PLACE CONCRETE

**REFERENCE STANDARDS:** CONFORMS TO THE LATEST EDITIONS OF THE FOLLOWING:

- ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY".
- IBC CHAPTER 19.

**FIELD REFERENCE:** THE CONTRACTOR SHALL KEEP A COPY OF ACI FIELD REFERENCE MANUAL, SP-15, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301)" WITH SELECTED ACI AND ASTM REFERENCES."

**CONCRETE MIXTURES:** CONFORM TO ACI 318 CHAPTER 19 "CONCRETE: DESIGN AND DURABILITY REQUIREMENTS."

**MATERIALS:** CONFORM TO ACI 318 CHAPTERS 19 & 20.

**SUBMITTALS:** PROVIDE ALL SUBMITTALS REQUIRED BY ACI 301 SEC 4.1.2. SUBMIT MIX DESIGNS FOR EACH MIX IN THE TABLE BELOW.

MEMBER TYPE/LOCATION	TABLE OF MIX DESIGN REQUIREMENTS			EXPOSURE CLASSIFICATION	MAX W/C RATIO	MINIMUM AIR CONTENT
	STRENGTH (PSI)	TEST AGE (DAYS)	MAXIMUM AGGREGATE			
FDN - RESIDENTIAL FTG	3500	28	1"	F1, CO	0.45 (0.55 MAX)	4.5%

MIX DESIGN NOTES:

- W/C RATIO: WATER-CEMENTITIOUS MATERIAL RATIOS SHALL BE BASED ON THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. RATIOS NOT SHOWN IN THE TABLE ABOVE ARE CONTROLLED BY STRENGTH REQUIREMENTS.
- CEMENTITIOUS CONTENT:
  - THE USE OF FLY ASH, OTHER POZZOLANS, SILICA FUME, OR SLAG SHALL CONFORM TO ACI 301 SEC 4.2.2.9B. MAXIMUM AMOUNT OF FLY ASH SHALL BE 20% OF TOTAL CEMENTITIOUS CONTENT UNLESS REVIEWED AND APPROVED OTHERWISE BY EOR.
  - FOR CONCRETE USED IN ELEVATED FLOORS, PORTLAND CEMENT CONTENT SHALL CONFORM TO ACI 301 SEC 4.2.2.1. ACCEPTANCE OF LOWER CEMENT CONTENT IS CONTINGENT ON PROVIDING SUPPORTING DATA TO THE EOR FOR REVIEW AND ACCEPTANCE.
- AIR CONTENT: CONFORM TO ACI 301 SEC 4.2.2.4. HORIZONTAL EXTERIOR SURFACES IN CONTACT WITH THE SOIL REQUIRE ENTRAINED AIR. USE EXPOSURE CATEGORY FO, SO, WO, AND CO UNLESS NOTED OTHERWISE. TOLERANCE IS +/- 1.5%. AIR CONTENT SHALL BE MEASURED AT POINT OF PLACEMENT.
- EXPOSURE CLASSIFICATION: THE MIX DESIGN PROVIDED SHALL MEET THE REQUIREMENTS OF ACI 318 CHAPTER 19, BASED ON THE EXPOSURE CLASSIFICATION INDICATED IN THE TABLE ABOVE.
- SLUMP: UNLESS OTHERWISE SPECIFIED OR PERMITTED, CONCRETE SHALL HAVE AT THE POINT OF DELIVERY, A SLUMP OF 4" +/- 1". FOR ADDITIONAL CRITERIA, REFERENCE ACI 301 SEC 4.2.2.2.
- NON-CHLORIDE ACCELERATOR: NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE SLABS PLACED AT AMBIENT TEMPERATURES BELOW 50F AT THE CONTRACTOR'S OPTION.

**FORMWORK:** CONFORM TO ACI 301 SEC 2 "FORMWORK AND FORM ACCESSORIES." REMOVAL OF FORMS SHALL CONFORM TO SEC 2.3.2 EXCEPT STRENGTH INDICATED IN SEC 2.3.2.5 SHALL BE 0.75 F'C.

**MEASURING, MIXING, AND DELIVERY:** CONFORM TO ACI 301 SEC 4.3.

**HANDLING, PLACING, CONSTRUCTING, AND CURING:** CONFORM TO ACI 301 SEC 5.

**EMBEDDED ITEMS:** POSITION AND SECURE IN PLACE EXPANSION JOINT MATERIAL, ANCHORS AND OTHER STRUCTURAL AND NON-STRUCTURAL EMBEDDED ITEMS BEFORE PLACING CONCRETE. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND ARCHITECTURAL DRAWINGS AND COORDINATE ALL OTHER EMBEDDED ITEMS.

**GROUTED REBAR AND ANCHOR BOLTS:** FOLLOW MANUFACTURER'S WRITTEN INSTRUCTIONS: DRILL HOLES IN EXISTING CONCRETE TO DEPTH NOTED ON PLANS OR TO DEPTH AS NECESSARY TO DEVELOP THE STRENGTH OF THE REBAR LISTED IN THE MANUFACTURER'S ICC-ESR/IAPMO-ER REPORT. DRILL THE HOLE DIAMETER PER MANUFACTURER'S INSTRUCTIONS. ROUGHEN SIDES OF HOLES BY PERCUSSIVE DRILLING METHODS. HOLES SHALL BE BRUSHED AND BLOWN FREE OF DEBRIS AND SURFACE RESIDUE BEFORE GROUTING OPERATION. SPECIAL INSPECTION IS REQUIRED.

CONCRETE REINFORCEMENT

**REFERENCE STANDARDS:** CONFORM TO:

- ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE: SEC 3" REINFORCEMENT, AND REINFORCEMENT SUPPORTS."
- IBC CHAPTER 19, CONCRETE.
- ACI 318 AND ACI 318R.
- ACI SP-66 "ACI DETAILING MANUAL" INCLUDING ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."

- CRSI MSP-2 "MANUAL OF STANDARD PRACTICE."
- ANSI/AWS D1.4 "STRUCTURAL WELDING CODE -- REINFORCING STEEL."

**SUBMITTALS:** CONFORM TO ACI 301 SEC 3.1.1 "SUBMITTALS, DATA, AND DRAWINGS." SUBMIT PLACING DRAWINGS SHOWING FABRICATION DIMENSIONS AND LOCATIONS FOR PLACEMENT OF REINFORCEMENT AND REINFORCEMENT SUPPORTS.

MATERIALS:

REINFORCING BARS ASTM A615, GRADE 60, DEFORMED BARS.  
WELDABLE REINFORCING BARS ASTM A706, GRADE 60, DEFORMED BARS.  
SMOOTH WELDED WIRE FABRIC ASTM A185  
DEFORMED WELDED WIRE FABRIC ASTM A497  
BAR SUPPORTS CRSI MSP-2, CHAPTER 3 "BAR SUPPORTS."  
TIE WIRE 16.5 GAGE OR HEAVIER, BLACK ANNEALED.

**FABRICATION:** CONFORM TO ACI 301, SEC 3.2.2 "FABRICATION;" AND ACI SP-66 "ACI DETAILING MANUAL."

**WELDING:** BARS SHALL NOT BE WELDED UNLESS AUTHORIZED. WHEN AUTHORIZED, CONFORM TO ACI 301, SEC 3.2.2.2. "WELDING" AND PROVIDE ASTM A706, GRADE 60 REINFORCEMENT.

**PLACING:** CONFORM TO ACI 301, SEC 3.3.2 "PLACEMENT." PLACING TOLERANCES SHALL CONFORM TO SEC 3.3.2.1 "TOLERANCES."

**CONCRETE COVER:** CONFORM TO THE FOLLOWING COVER REQUIREMENTS FROM ACI 301, TABLE 3.3.2.3.

CONCRETE CAST AGAINST EARTH 3"  
CONCRETE EXPOSED TO EARTH OR WEATHER (#5 & SMALLER) 1-1/2"  
CONCRETE EXPOSED TO EARTH OR WEATHER (#6 & LARGER) 2"  
BARS IN SLABS AND WALLS 3/4"

**SPICES & DEVELOPMENT LENGTH:** CONFORM TO ACI 301, SEC 3.3.2.7. REFER TO "LAP SPlice & DEVELOPMENT SCHEDULE" ON PLANS FOR TYPICAL SPICES. THE SPICES AND DEVELOPMENT LENGTHS INDICATED ON INDIVIDUAL SHEETS CONTROL OVER THE SCHEDULE. USE CLASS B SPICES UNLESS OTHERWISE NOTED. MECHANICAL CONNECTIONS MAY BE USED WHEN APPROVED BY THE EOR.

REINFORCING BAR CHART			
BAR SIZE	TOP BARS	OTHER BARS	DEVELOPMENT LENGTH, Ld
#4	33"	25"	19"
#5	41"	31"	24"
#6	48"	37"	29"
#7	70"	54"	41"
#8	80"	62"	47"
#9	90"	70"	53"
#10	100"	78"	59"
#11	110"	85"	65"

SCHEDULE NOTES:

- ALL LENGTHS ARE IN INCHES AND FOR f'c= 4,000 PSI.
- "TOP BARS" ARE HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12" OF CONC IS CAST IN THE MEMBER BELOW THE BAR.
- FOR f'c = 5,000 PSI USE 90% OF LENGTH.
- FOR f'c = 3,000 PSI USE 115% OF LENGTH.

**FIELD BENDING:** CONFORM TO ACI 301 SEC 3.3.2.8. "FIELD BENDING OR STRAIGHTENING." BAR SIZES #3 THROUGH #5 MAY BE FIELD BENT COLD THE FIRST TIME. OTHER BARS REQUIRE PREHEATING. DO NOT TWIST BARS.

STRUCTURAL STEEL

**DESIGN STANDARDS:** STRUCTURAL STEEL FOR THIS PROJECT IS DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL.

**REFERENCE STANDARDS:** CONFORM TO:

- AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS & BRIDGES."
- RCS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
- AWS D1.1 "STRUCTURAL WELDING CODE -- STEEL."
- AWS D1.3 "STRUCTURAL WELDING CODE -- SHEET STEEL."
- AWS D1.8 "STRUCTURAL WELDING CODE -- SEISMIC SUPPLEMENT."
- ACI 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS."
- ASCE 3 "STANDARD FOR THE STRUCTURAL DESIGN OF COMPOSITE SLABS."

MATERIALS:

OTHER STRUCTURAL SHAPES ASTM A36, FY = 36 KSI  
BARS & PLATES ASTM A36, FY = 36 KSI  
HSS STRUCTURAL TUBING ASTM A500, GRADE B, FY = 46 KSI  
ANCHOR BOLTS & BOLTS IN WOOD ASTM A307  
NUTS ASTM A563 OR ASTM A194, GRADE 2H  
WASHERS (FLAT OR BEVELED) ASTM F436  
ANCHOR RODS (HOOKED, HEADED, THREADED/NUTTED) ASTM F1554, GRADE 36 [WELDABLE]  
THREADED RODS ASTM A36, FY = 36 KSI  
WELDING ELECTRODES E70XX, 70 KSI, LOW HYDROGEN, TYPICAL  
CONCRETE SCREWS SIMPSON TITEN HD

WOOD FRAMING

**REFERENCE STANDARDS:** CONFORM TO:

- IBC CHAPTER 23 "WOOD."
- NDS AND NDS SUPPLEMENT -- "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."
- ANSI/TPI 1 "NATIONAL DESIGN STANDARD FOR METAL-PLATE-CONNECTED WOOD TRUSS CONSTRUCTION."
- BCS 2013 "BUILDING COMPONENT SAFETY INFORMATION."

**IDENTIFICATION:** ALL SAWN LUMBER AND PRE-MANUFACTURED WOOD PRODUCTS SHALL BE IDENTIFIED BY THE GRADE MARK OR A CERTIFICATE OF INSPECTION ISSUED BY THE CERTIFYING AGENCY.

MATERIALS:

**SAWN LUMBER:** CONFORM TO GRADING RULES OF WWPA, WCLB, OR NLGA. FINGER JOINTED STUDS ACCEPTABLE AT INTERIOR NON-STRUCTURAL WALLS ONLY.

MEMBER USE	SIZE	SPECIES	GRADE
STUDS & PLATES	2X4,3X4,2X6,3X6	HF	NO. 2
POSTS	4X4, 4X6, 4X8	HF	NO. 2
JOISTS	2X6 -- 2X12	HF	NO. 2
BEAMS	4X8 -- 4X12	HF	NO. 2
P.T. BEAMS	6X8 -- 6X12	HF	NO. 2
P.T. POSTS	6X6	HF	NO. 2
P.T.	FRAMING	HF	NO. 2

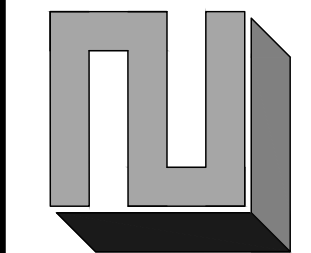
**WOOD STRUCTURAL SHEATHING (PLYWOOD):** WOOD APA-RATED STRUCTURAL SHEATHING INCLUDES: ALL VENEER PLYWOOD, ORIENTED STRAND BOARD, WAFERBOARD, PARTICLEBOARD, T1-11 SIDING, AND COMPOSITES OF VENEER AND WOOD BASED MATERIAL. CONFORM TO PRODUCT STANDARDS PS-1-95 AND PS-2-92 OF THE U.S. DEPT. OF COMMERCE AND THE AMERICAN PLYWOOD ASSOCIATION (APA)

LOCATION	THICKNESS	SPAN RATING	MINIMUM APA RATING	
			PLYWOOD GRADE	EXPOSURE
ROOF	15/32"	24/16	C-D	1
FLOOR	23/32" T&G	24 OC	STURD-I-FLOOR 1	
WALLS	15/32"	32/16	C-D	1

**JOIST HANGERS AND CONNECTORS:** SIMPSON STRONG-TIE COMPANY INC. AS SPECIFIED IN THEIR LATEST CATALOGS WAS USED AS THE BASIS OF DESIGN FOR THIS PROJECT. ALTERNATE CONNECTORS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED PROVIDED THEY HAVE CURRENT ICC-ESR/IAPMO-ER APPROVAL FOR EQUIVALENT OR GREATER LOAD CAPACITIES AND ARE REVIEWED AND APPROVED BY THE EOR PRIOR TO ORDERING. CONNECTORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE 1/2 OF THE NAILS OR BOLTS IN EACH MEMBER, UNLESS NOTED OTHERWISE ALL NAILS SHALL BE FULL LENGTH COMMON. NAIL STRAPS TO WOOD FRAMING AS LATE AS POSSIBLE IN THE FRAMING PROCESS TO ALLOW THE WOOD TO SHRINK AND THE BUILDING TO SETTLE.

PERMIT SET

L2 ENGINEERS  
DESIGN AND PLANNING  
17848 NE 198TH PLACE  
WOODINVILLE, WA 98072

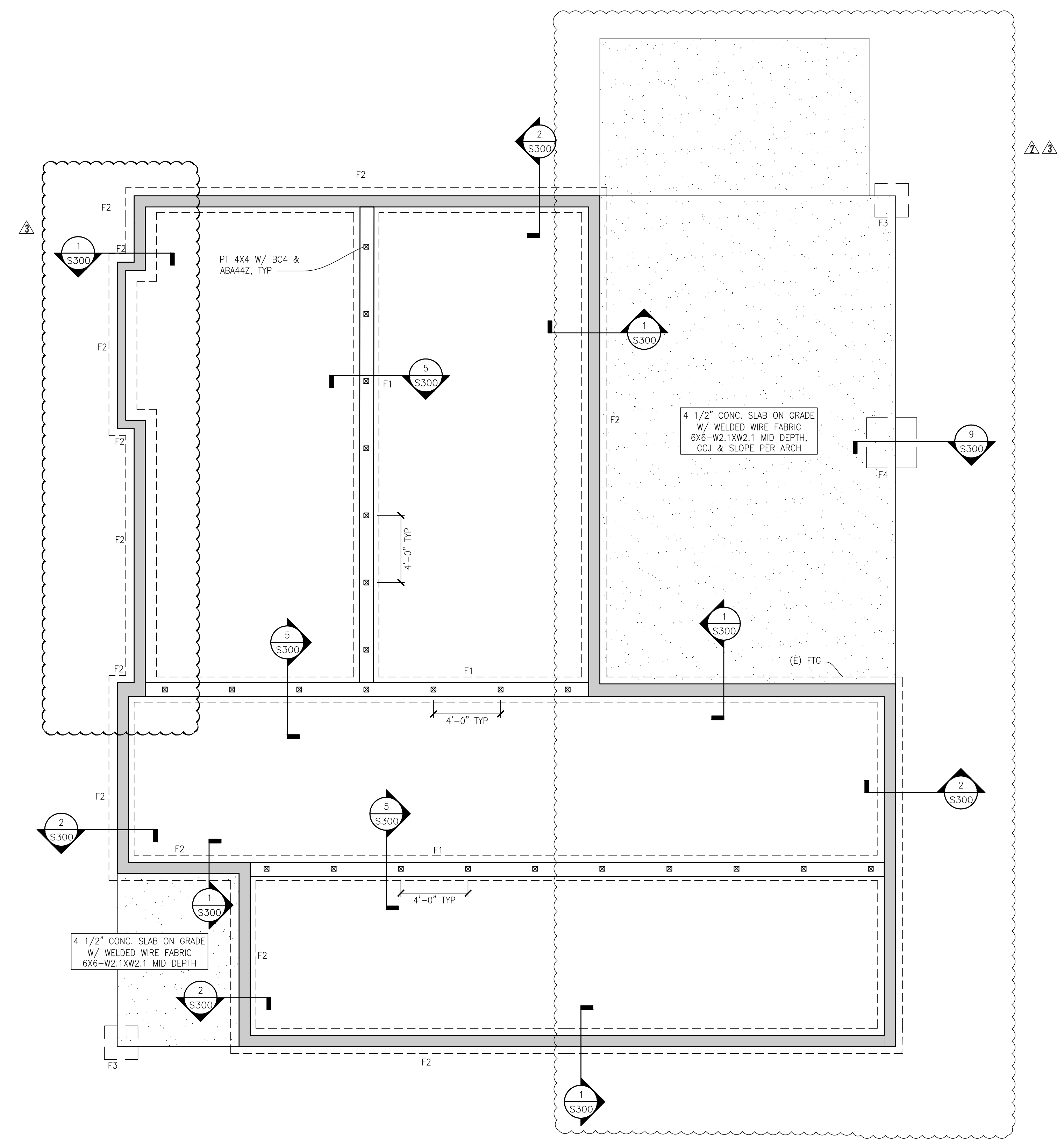


REVISION	DATE	DESCRIPTION
2021.11.17	2021.11.17	





PERMIT SET



**FOUNDATION PLAN**  
SCALE: 1/4"=1'-0"

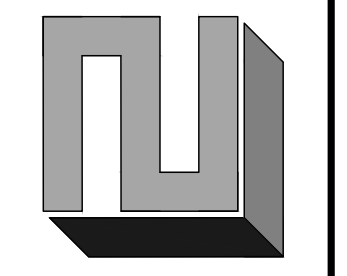
**LEGEND**

- CONC SPREAD FTG
- ▬ CIP CONCRETE STEM WALL
- ▬ WALL
- ▬ INTERIOR BEARING WALL
- SW# SHEAR WALL INDICATOR (REF SHEAR WALL SCHED)
- HD HOLDOWN MARK (REF HOLD DOWN SCHED)
- ⊠ POST
- ⊠ POST BELOW
- HANGER
- ▨ OVERFRAMING/ TRUSS SETS AS REQ'D PER TRUSS MANUF

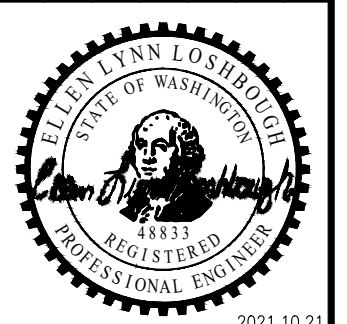
- PLAN NOTES**
1. REFERENCE S100 SERIES FOR STRUCTURAL GENERAL NOTES, DRAWING LIST, ABBREVIATIONS, SPECIAL INSPECTION TABLES, ETC.
  2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
  3. CONTRACTOR TO COORDINATE CURBS AND ELECTRICAL AND MECHANICAL FLOOR OPENINGS AND PENETRATIONS WITH ARCHITECTURAL DRAWINGS.
  4. ALL WOOD IN CONTACT WITH WEATHER, EXPOSED CONCRETE, OR WITHIN 6" OF FINISHED GRADE SHALL BE PRESSURE-TREATED.
  5. USE HOT DIPPED GALVANIZED FASTENERS AND ZMAX HARDWARE AT CONNECTIONS TO PRESSURE TREATED LUMBER.
  3. AT ALL BEARING AND SHEAR WALLS, REFERENCE STUD GRADE, SIZES AND SPACING PER PLANS AND GENERAL NOTES.
  4. ALL METAL HARDWARE FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL.
  5. HEADERS SHOWN BUT NOT SPECIFIED ARE TO BE 4X10 MINIMUM. HEADERS SHOWN SHALL BE SUPPORTED BY (2) STUDS MINIMUM, UNO ON PLAN.
  6. SLAB ON GRADE CRACK CONTROL JOINT (CCJ) PLACEMENT PER CONTRACTOR/ARCH. SLAB ON GRADE SLOPE PER ARCH.

FOOTING SCHEDULE		
TYPE	SIZE	REINFORCING
F1	8" STEMWALL, 8"x18" CONT STRIP FTG	#4 @ 12" OC EW STEMWALL, (3) #4 CONT BOT & #4 @ 8" OC TRANS
F2	8" STEMWALL, 8"x16" CONT STRIP FTG	#4 @ 12" OC EW STEMWALL, (3) #4 CONT BOT & #4 @ 8" OC TRANS FTG
F3	2'-0"x2'-0"x12"	(4) #4 BOT, EW
F4	2'-6"x2'-6"x12"	(5) #4 BOT, EW

**L2 ENGINEERS**  
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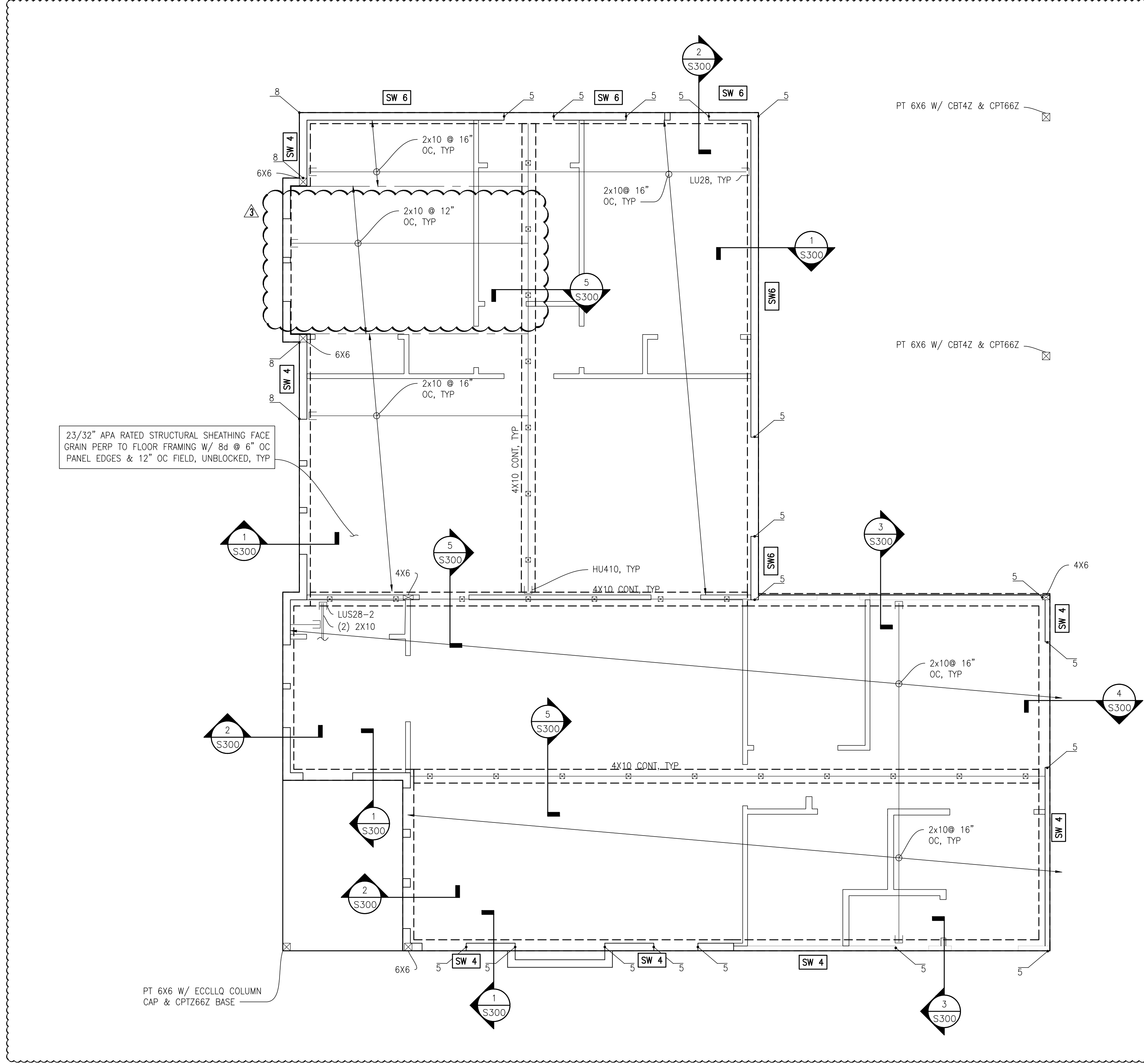


DATE	REVISION
2021.11.17	CITY CORRECTIONS NOTICE
2022.02.07	CARPORIT ADDITION
2022.03.23	FOUNDATION MODIFICATION



THE LEVELLA  
2412 60TH AVE SE, MERCER ISLAND, WA 98040  
FOUNDATION PLAN

CHK BY: L2E	DRW BY: L2E
SCALE: AS SHOWN BAR = 1" FULL SIZE	
DATE: 2021.10.21	
JOB NO: 21-120	
SHEET: 3 OF 7	
DWG NO: S200	

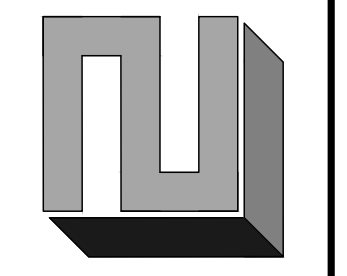


FIRST FLOOR FRAMING PLAN  
SCALE: 1/4"=1'-0"

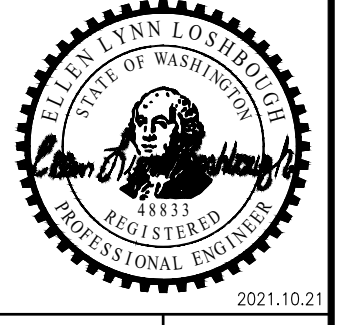
- LEGEND**
- CONC SPREAD FTG
  - ▬ CIP CONCRETE STEM WALL
  - ▬ WALL
  - ▬ INTERIOR BEARING WALL
  - SW# SHEAR WALL INDICATOR (REF SHEAR WALL SCHED)
  - HD HOLDOWN MARK (REF HOLD DOWN SCHED)
  - ⊠ POST
  - ⊠ POST BELOW
  - HANGER
  - ▨ OVERFRAMING/ TRUSS SETS AS REQ'D PER TRUSS MANUF

- PLAN NOTES**
1. REFERENCE S100 SERIES FOR STRUCTURAL GENERAL NOTES, DRAWING LIST, ABBREVIATIONS, SPECIAL INSPECTION TABLES, ETC.
  2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
  3. CONTRACTOR TO COORDINATE CURBS AND ELECTRICAL AND MECHANICAL FLOOR OPENINGS AND PENETRATIONS WITH ARCHITECTURAL DRAWINGS.
  4. ALL WOOD IN CONTACT WITH WEATHER, EXPOSED CONCRETE, OR WITHIN 6" OF FINISHED GRADE SHALL BE PRESSURE-TREATED.
  5. USE HOT DIPPED GALVANIZED FASTENERS AND ZMAX HARDWARE AT CONNECTIONS TO PRESSURE TREATED LUMBER.
  3. AT ALL BEARING AND SHEAR WALLS, REFERENCE STUD GRADE, SIZES AND SPACING PER PLANS AND GENERAL NOTES.
  4. ALL METAL HARDWARE FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL.
  5. HEADERS SHOWN BUT NOT SPECIFIED ARE TO BE 4X10 MINIMUM. HEADERS SHOWN SHALL BE SUPPORTED BY (2) STUDS MINIMUM, UNO ON PLAN.

**L2 ENGINEERS**  
DESIGN AND PLANNING  
17848 NE 198TH PLACE  
WOODINVILLE, WA 98072



DATE	REVISION
2021.11.17	CITY CORRECTIONS NOTICE
2022.02.07	CARPORT ADDITION
2022.03.23	FOUNDATION MODIFICATION



THE LEVELLA  
2412 60TH AVE SE, MERCER ISLAND, WA 98040  
FIRST FLOOR FRAMING PLAN

CHK BY: LZE  
DRW BY: L2E

SCALE: AS SHOWN  
BAR = 1"  
FULL SIZE

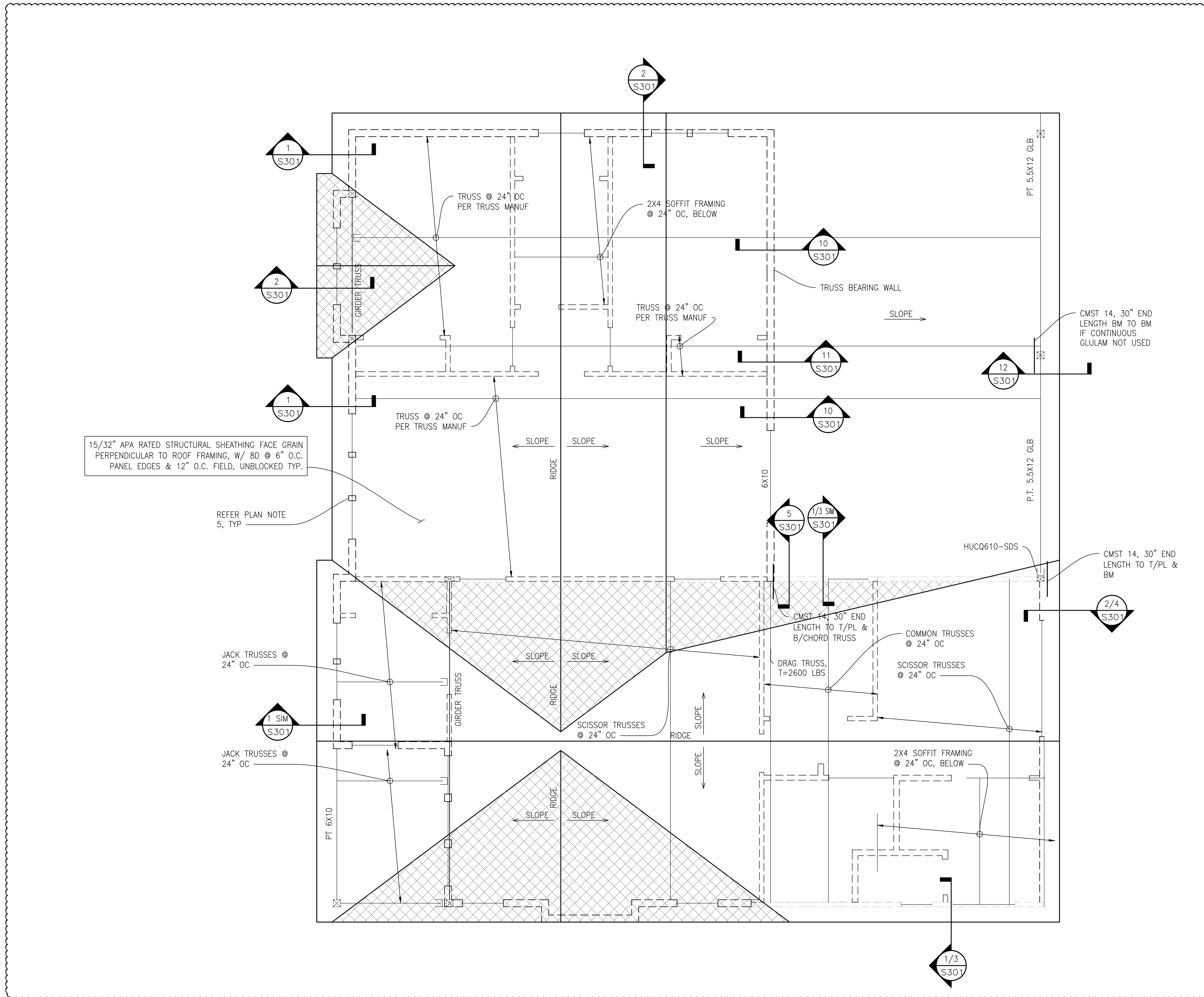
DATE: 2021.10.21

JOB NO: 21-120

SHEET: 4 OF 7

DWG NO: S201

PERMIT SET



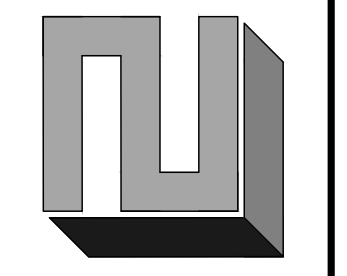
ROOF FRAMING PLAN  
SCALE: 1/4"=1'-0"

**LEGEND**

- CONC SPREAD FTG
- ▬ CIP CONCRETE STEM WALL
- ▬ WALL
- ▬ INTERIOR BEARING WALL
- SW# SHEAR WALL INDICATOR (REF SHEAR WALL SCHED)
- HD HOLD-DOWN MARK (REF HOLD-DOWN SCHED)
- ⊠ POST
- ⊠ POST BELOW
- HANGER
- ▨ OVERFRAMING/ TRUSS SETS AS REQ'D PER TRUSS MANUF

- PLAN NOTES**
- REFERENCE S100 SERIES FOR STRUCTURAL GENERAL NOTES, DRAWING LIST, ABBREVIATIONS, SPECIAL INSPECTION TABLES, ETC.
  - VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.
  - CONTRACTOR TO COORDINATE CURBS AND ELECTRICAL AND MECHANICAL FLOOR OPENINGS AND PENETRATIONS WITH ARCHITECTURAL DRAWINGS.
  - ALL WOOD IN CONTACT WITH WEATHER, EXPOSED CONCRETE, OR WITHIN 6" OF FINISHED GRADE SHALL BE PRESSURE-TREATED.
  - USE HOT DIPPED GALVANIZED FASTENERS AND ZMAX HARDWARE AT CONNECTIONS TO PRESSURE TREATED LUMBER.
  - AT ALL BEARING AND SHEAR WALLS, REFERENCE STUD GRADE, SIZES AND SPACING PER PLANS AND GENERAL NOTES.
  - ALL METAL HARDWARE FOR EXTERIOR USE SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL.
  - HEADERS SHOWN BUT NOT SPECIFIED ARE TO BE 4X10 MINIMUM. HEADERS SHOWN SHALL BE SUPPORTED BY (2) STUDS MINIMUM, UNQ ON PLAN.
  - TRUSS SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/EOR PRIOR TO ANY TRUSS FABRICATION OR CONSTRUCTION. THE CONTRACTOR SHALL REVIEW AND PLACE A SHOP DRAWINGS STAMP ON THE SUBMITTAL BEFORE FORWARDING TO THE EOR. SUBMITTALS SHALL BE MADE IN TIME TO PROVIDE A MINIMUM OF ONE WEEK FOR REVIEW BY THE EOR.

L2 ENGINEERS  
DESIGN AND PLANNING  
17848 NE 198TH PLACE  
WOODINVILLE, WA 98072



DATE	REVISION
2021.11.17	CITY CORRECTIONS NOTICE
2022.02.07	CARPORIT ADDITION
2022.03.23	FOUNDATION MODIFICATION

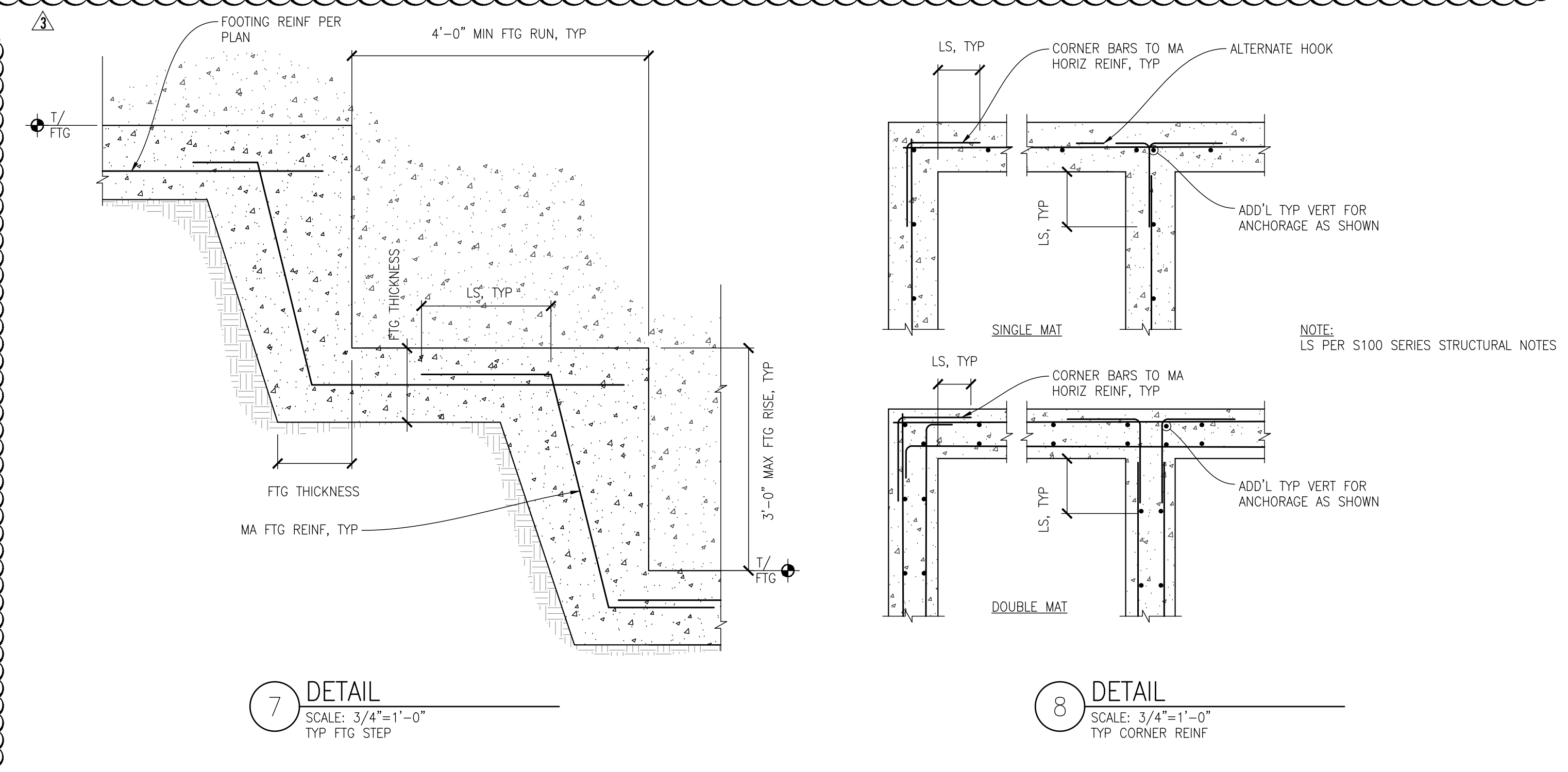
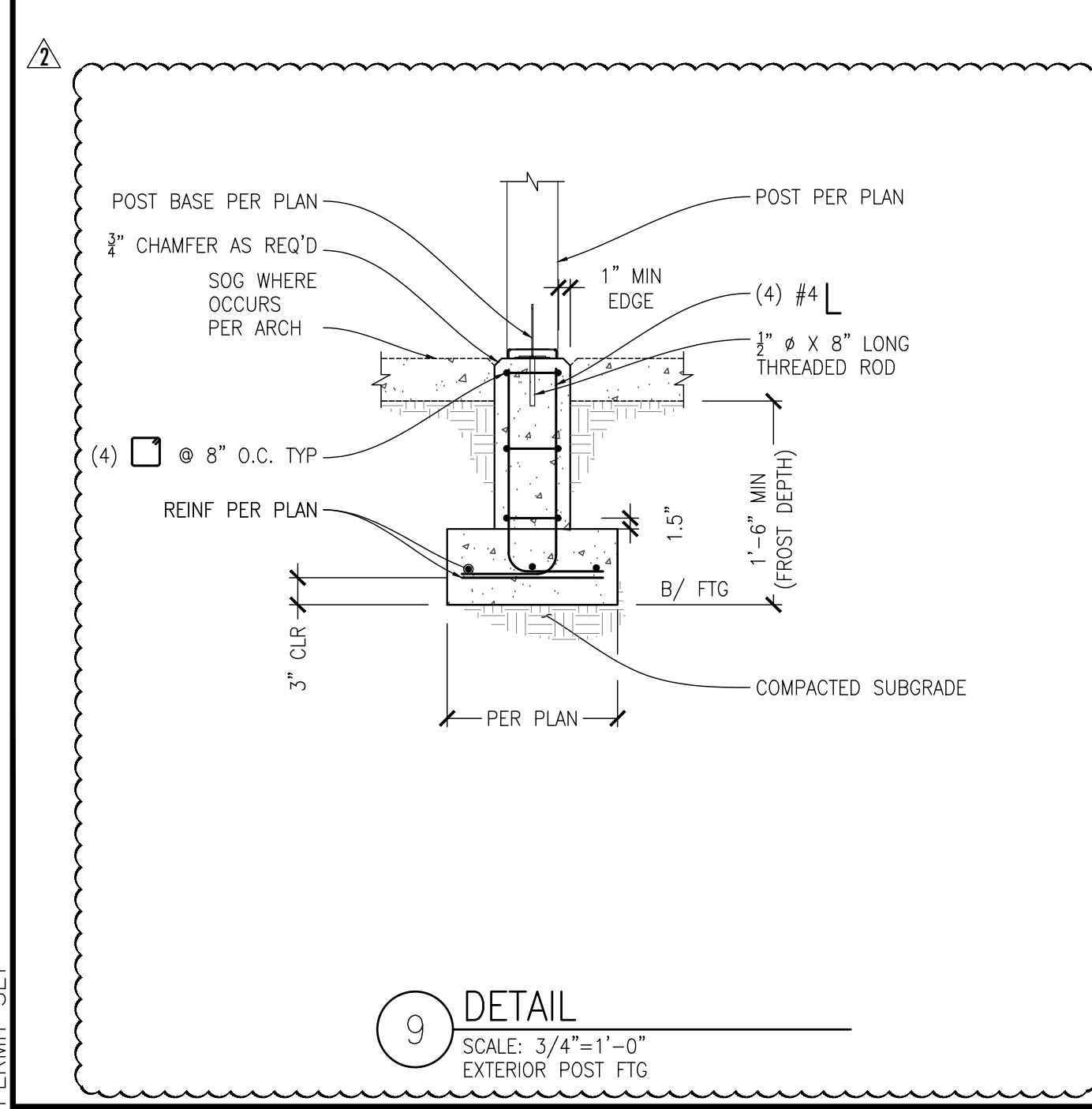
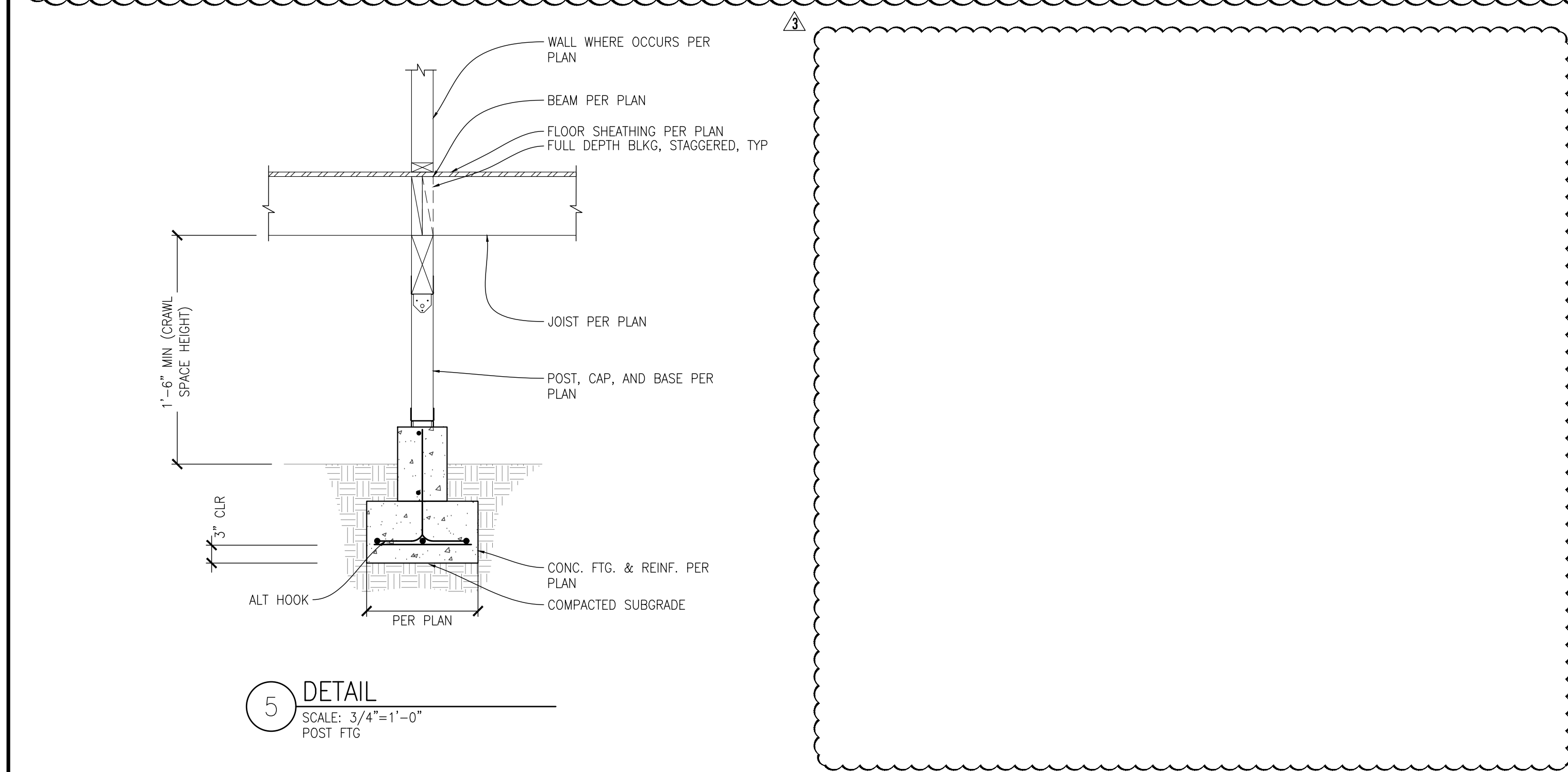
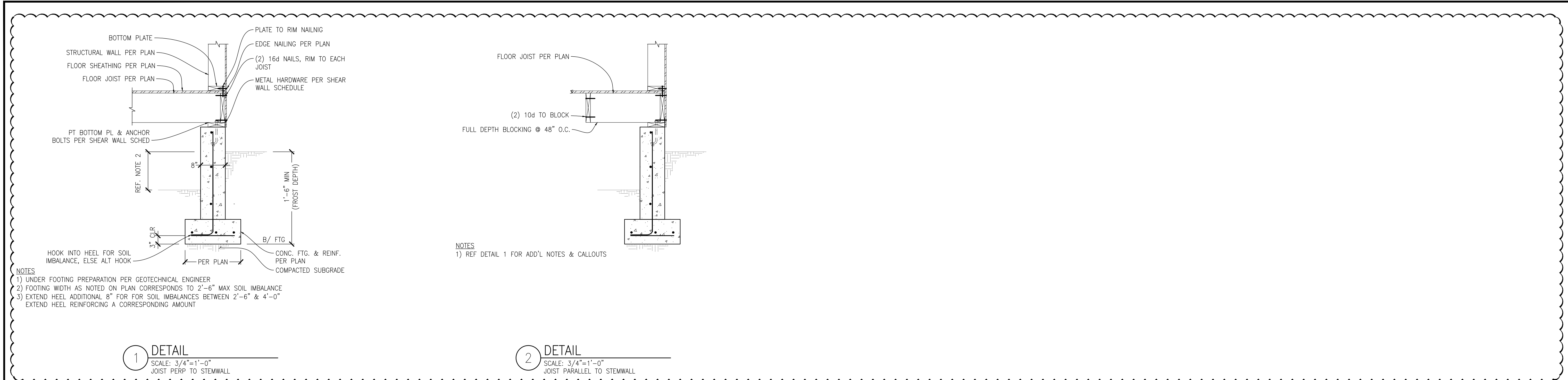


THE LEVELLA  
2412 60TH AVE SE, MERCER ISLAND, WA 98040  
ROOF FRAMING PLAN

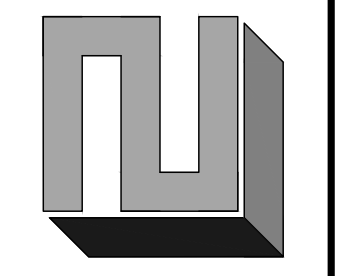
CHK BY: L2E	DRW BY: L2E
SCALE: AS SHOWN BAR = 1" FULL SIZE	
DATE: 2021.10.21	
JOB NO: 21-120	
SHEET: 5 OF 7	
DWG NO: S202	

PERMIT SET

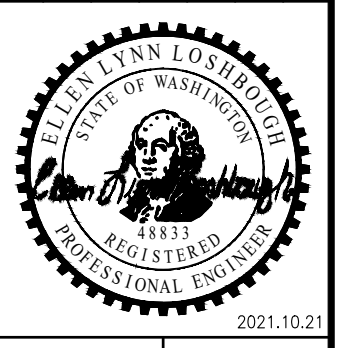




PERMIT SET

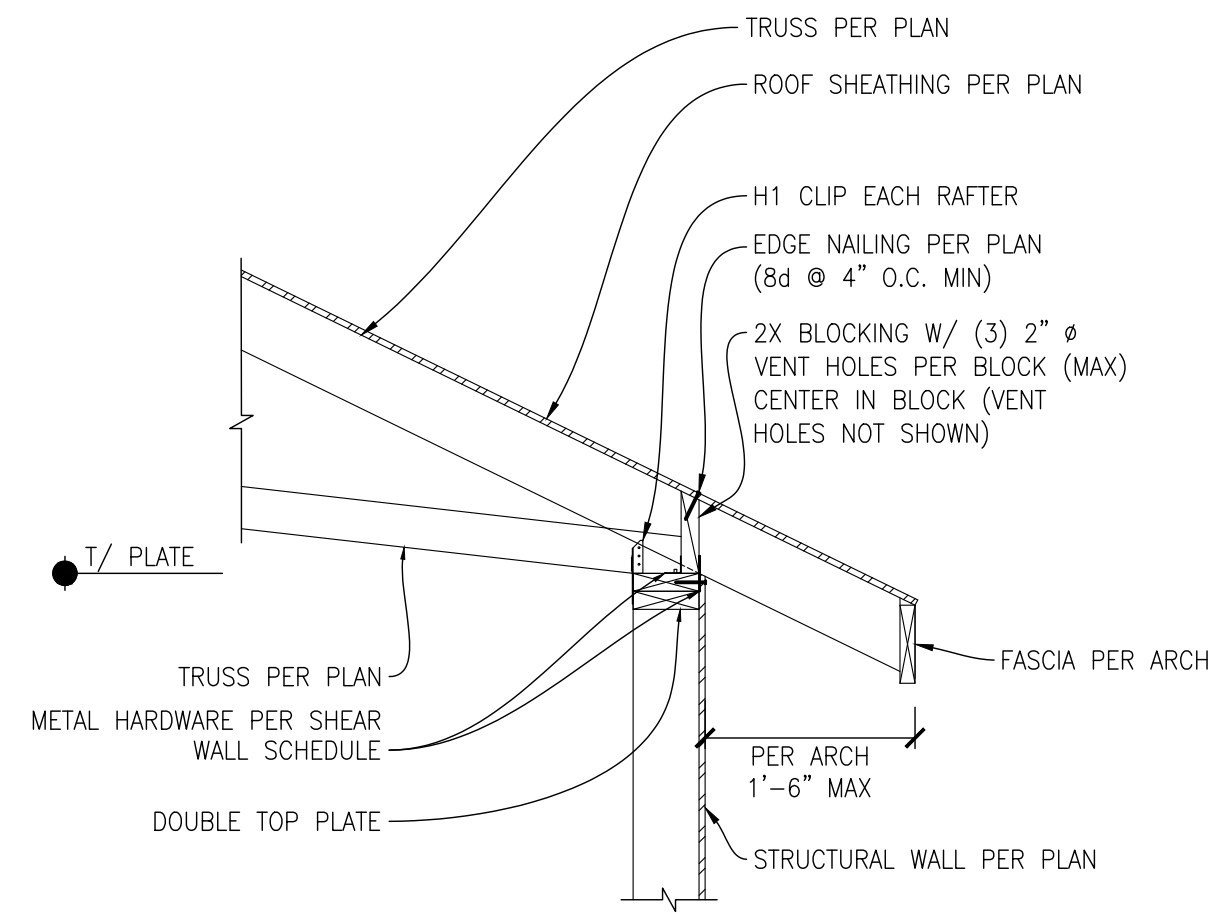


DATE	REVISION
2021.11.17	CITY CORRECTIONS NOTICE
2022.02.07	CARPORIT ADDITION
2022.03.23	FOUNDATION MODIFICATION

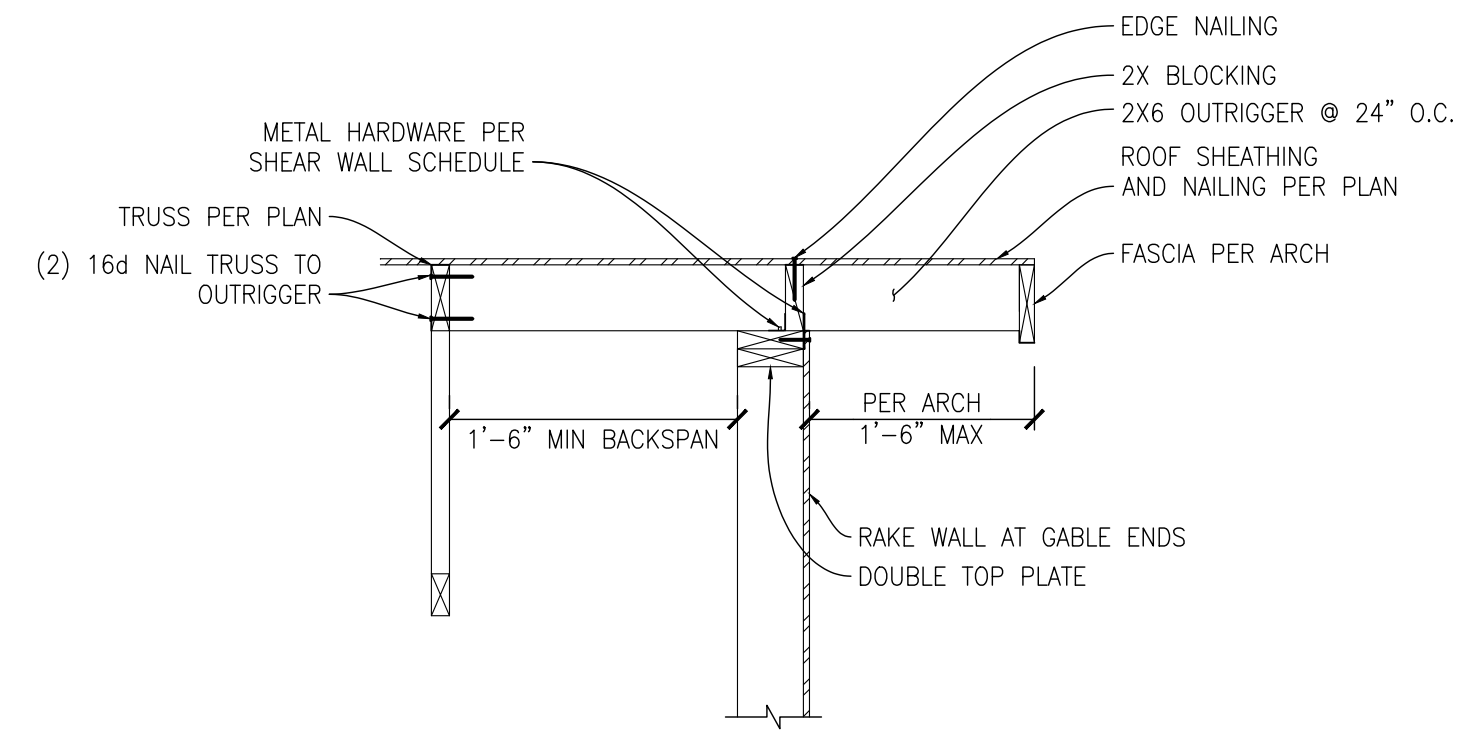


THE LEVELLA  
2412 60TH AVE SE, MERCER ISLAND, WA 98040  
DETAILS

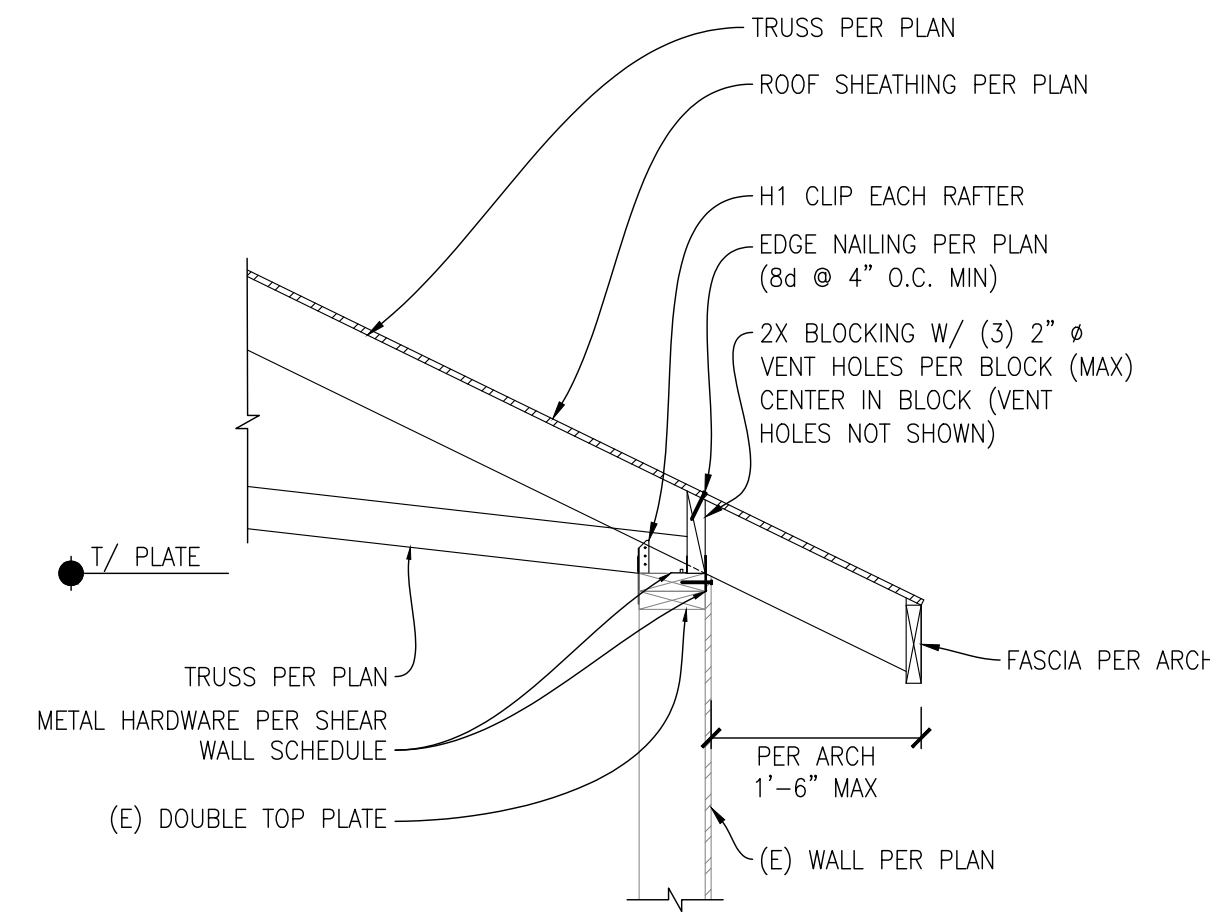
CHK BY: L2E	DRW BY: L2E
SCALE: AS SHOWN BAR = 1" FULL SIZE	
DATE: 2021.10.21	
JOB NO: 21-120	
SHEET: 6 OF 7	
DWG NO: S300	



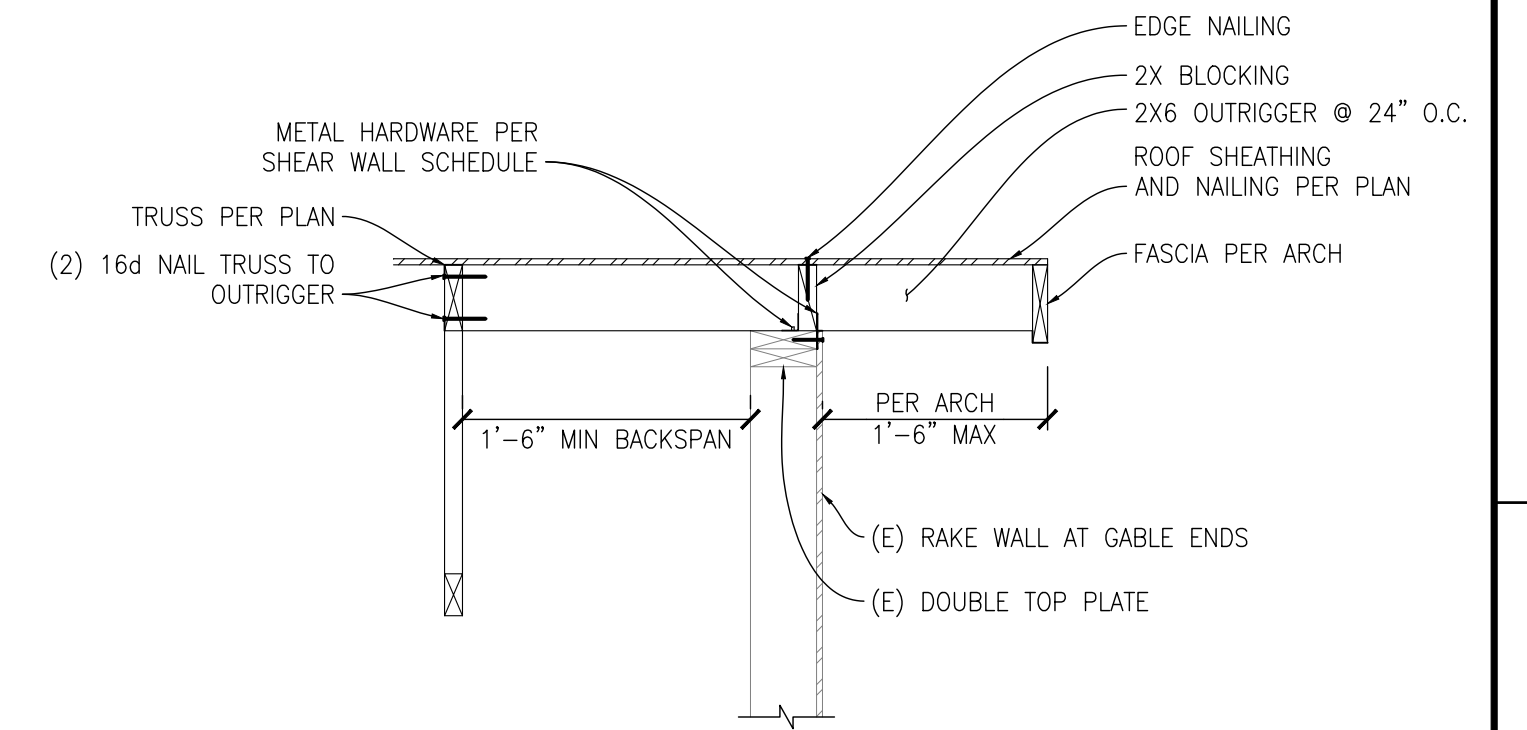
1 DETAIL  
SCALE: 3/4"=1'-0"  
TRUSS PERP TO WALL



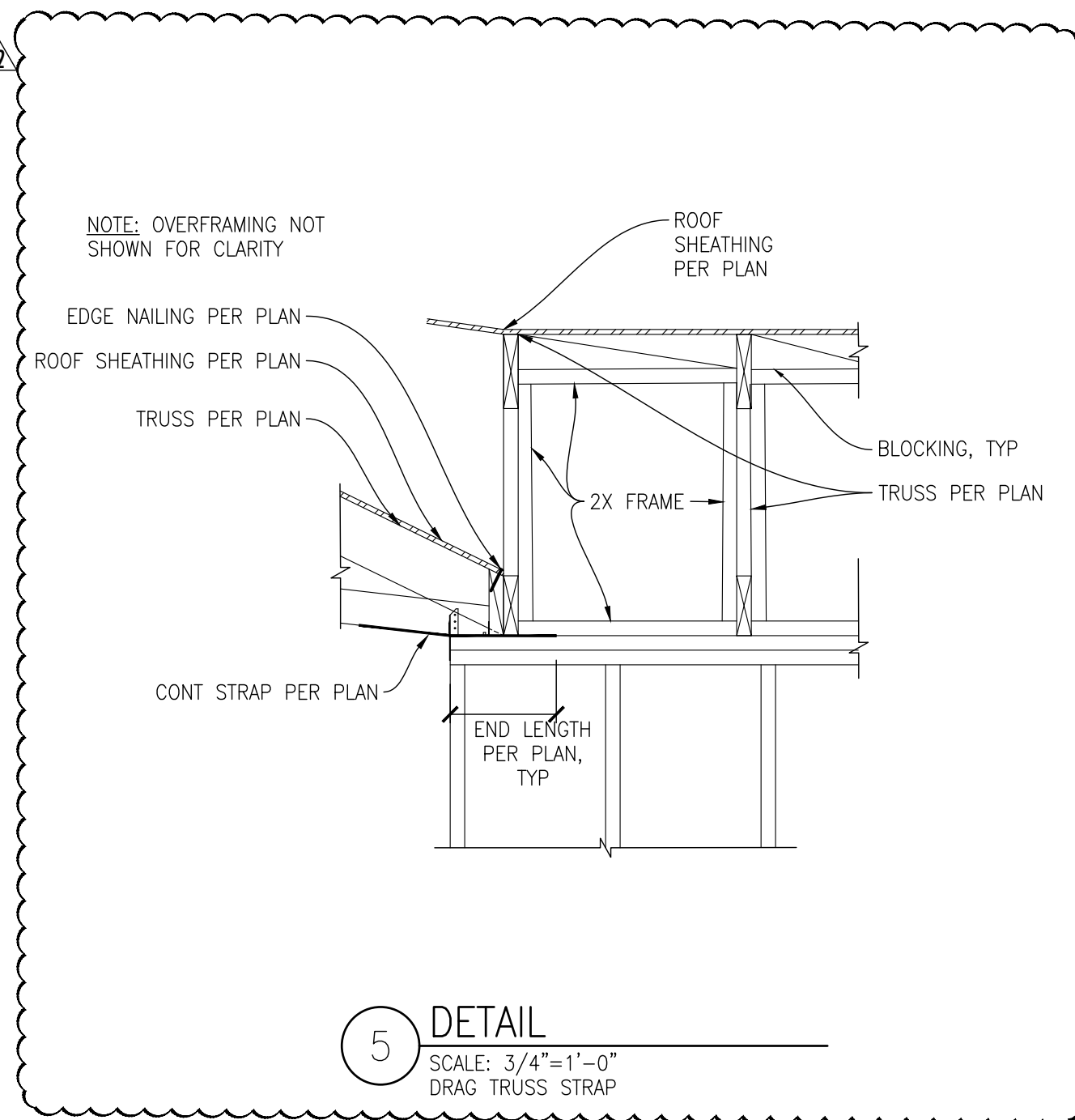
2 DETAIL  
SCALE: 3/4"=1'-0"  
TRUSS PARALLEL TO WALL



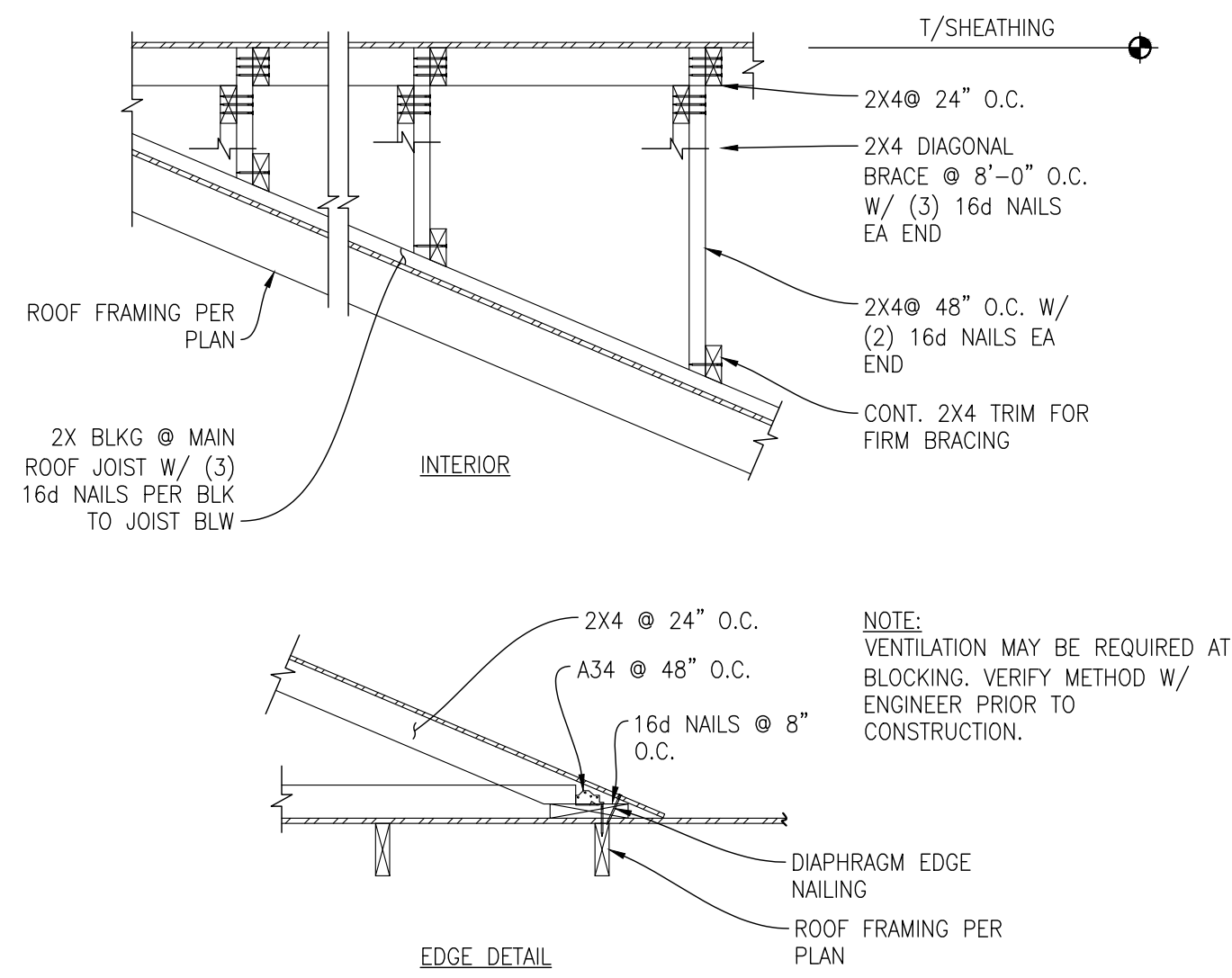
3 DETAIL  
SCALE: 3/4"=1'-0"  
TRUSS PERP TO (E) WALL



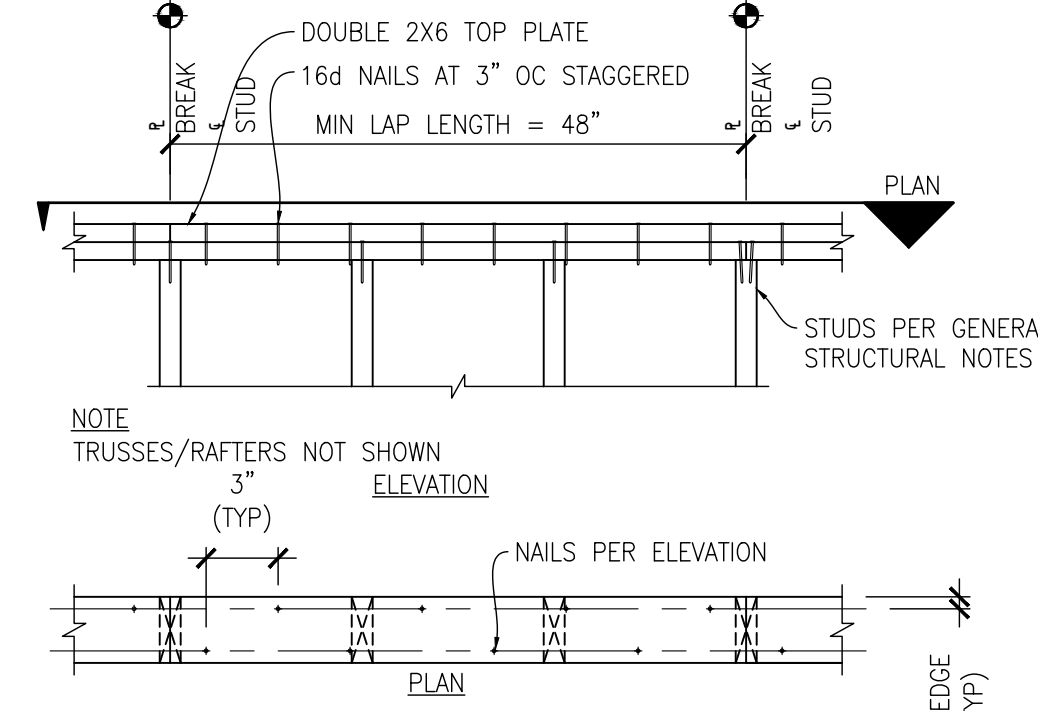
4 DETAIL  
SCALE: 3/4"=1'-0"  
TRUSS PARALLEL TO (E) WALL



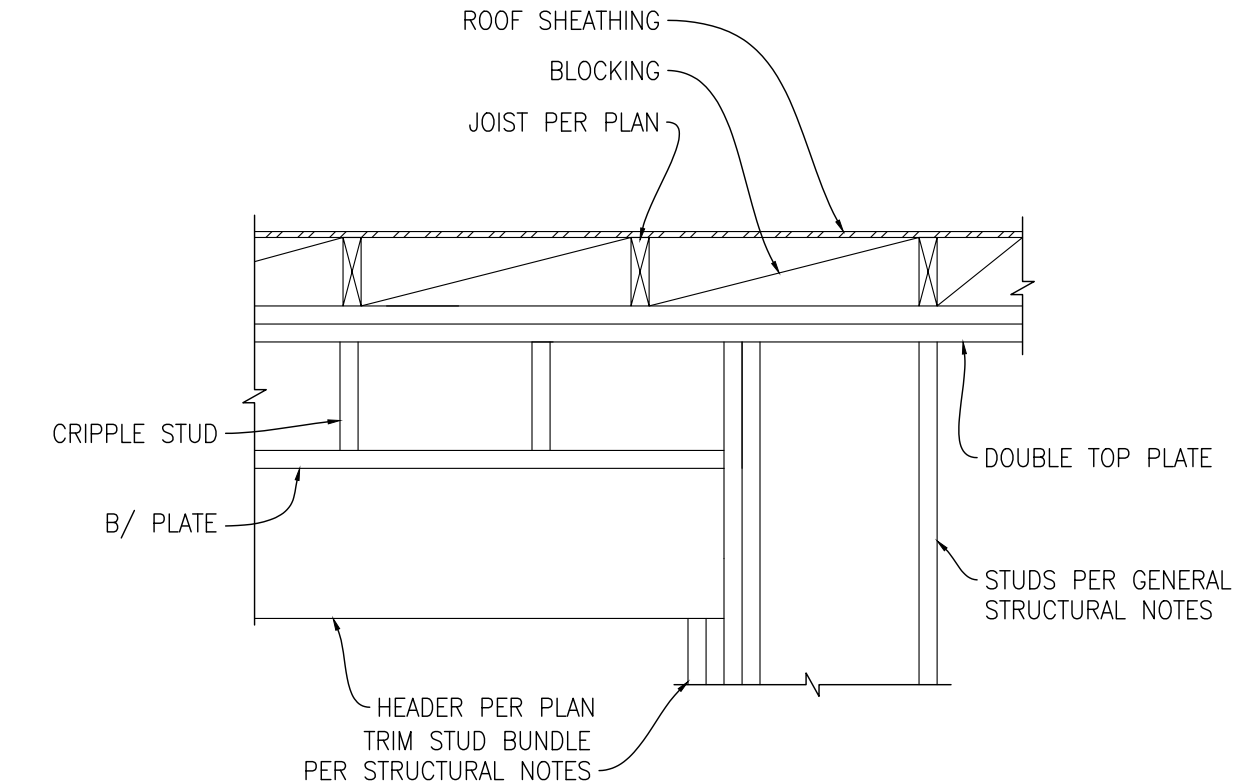
5 DETAIL  
SCALE: 3/4"=1'-0"  
DRAG TRUSS STRAP



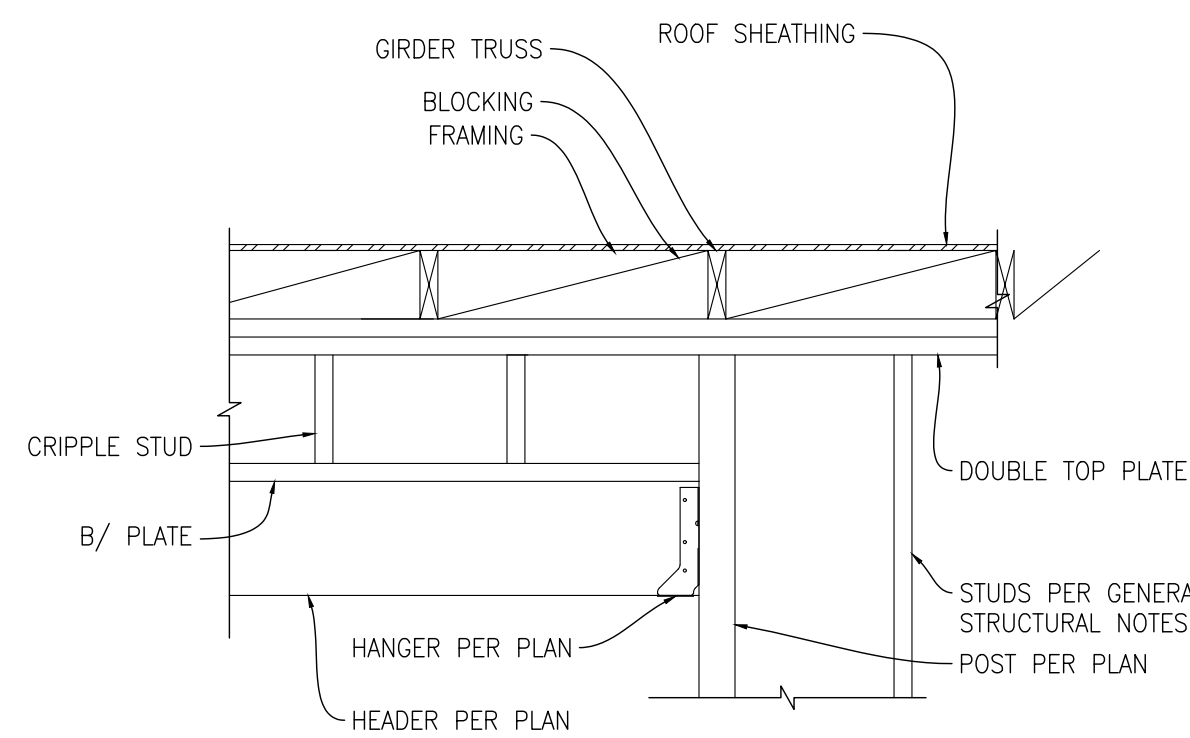
6 DETAIL  
SCALE: 3/4"=1'-0"  
TYP OVERFRAMING



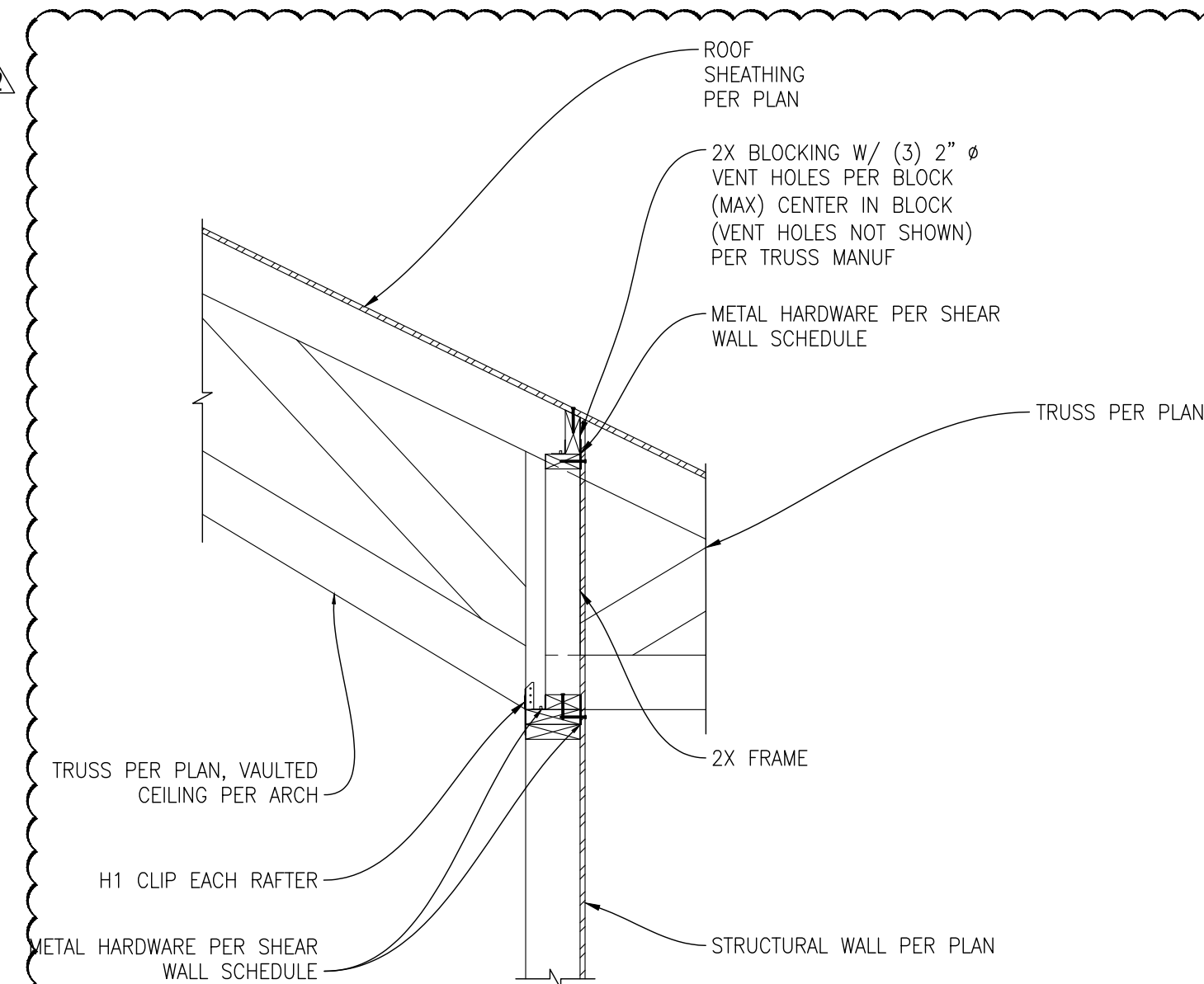
7 DETAIL  
SCALE: 3/4"=1'-0"  
TYP TOP PL SPLICE



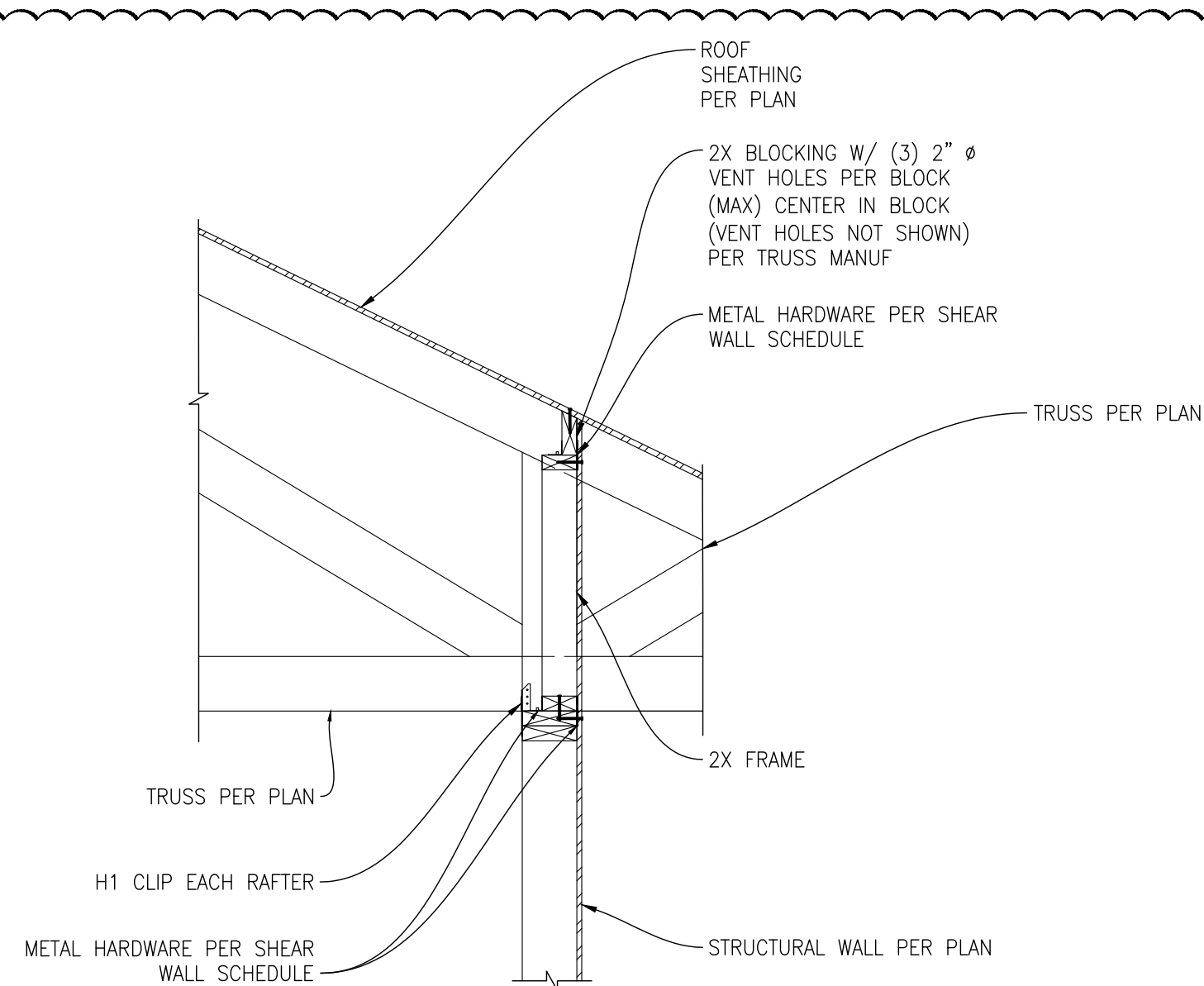
8 DETAIL  
SCALE: 3/4"=1'-0"  
TYP HEADER FRAMING



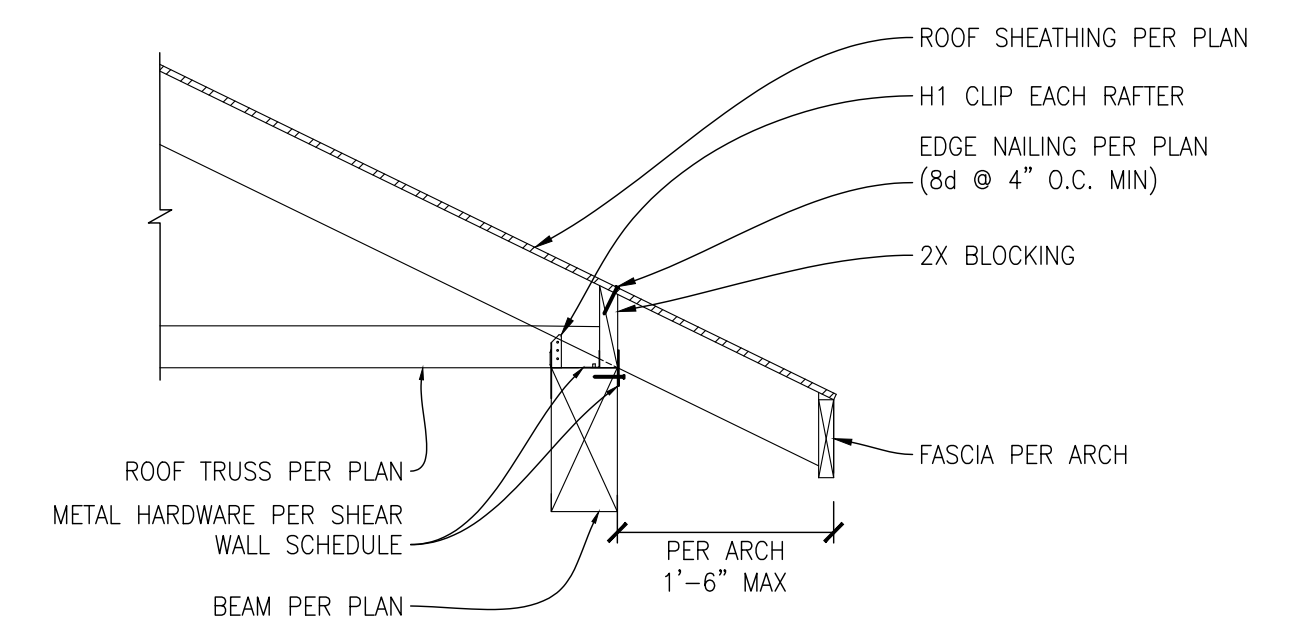
9 DETAIL  
SCALE: 3/4"=1'-0"  
POST & GIRDER TRUSS



10 DETAIL  
SCALE: 3/4"=1'-0"  
TRUSS PERP TO EXTERIOR WALL @ CARPORT

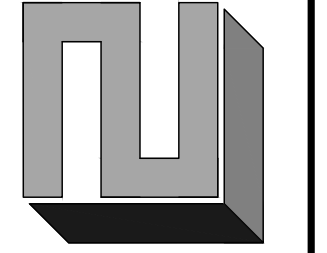


11 DETAIL  
SCALE: 3/4"=1'-0"  
TRUSS PERP TO EXTERIOR WALL @ CARPORT



12 DETAIL  
SCALE: 3/4"=1'-0"  
TRUSS PERP TO BEAM

PERMIT SET



REVISION	DATE	DESCRIPTION
1	2021.11.17	CITY CORRECTIONS NOTICE
2	2022.02.07	CARPORIT ADDITION
3	2022.03.23	FOUNDATION MODIFICATION



THE LEVELLA  
2412 60TH AVE SE, MERCER ISLAND, WA 98040

CHK BY:	DRW BY:
L2E	L2E
SCALE:	AS SHOWN
BAR = 1"	FULL SIZE
DATE:	2021.10.21
JOB NO:	21-120
SHEET:	7 OF 7
DWG NO:	S301

DETAILS