

STRUCTURAL NOTES

1. GENERAL

- A. THE BUILDING IS DESIGNED UNDER THE PROVISIONS OF THE 2015 INTERNATIONAL BUILDING CODE AND ASCE 7-10.
- B. THE FOLLOWING LOADS WERE USED IN THE DESIGN:

BUILDING RISK CATEGORY	II	
FLOOR LIVE LOAD		
RESIDENTIAL UNITS	40 PSF	
UNIT INTERNAL STAIRS	40 PSF / 300 LB PT LOAD	
EXTERNAL EGRESS STAIRS	100 PSF / 300 LB PT LOAD	
PRIVATE BALCONIES	60 PSF	
ELEVATED CORRIDORS SERVING RESIDENTIAL UNITS	40 PSF	
PUBLIC AREAS	100 PSF	
NOTE: LIVE LOAD REDUCTION IS UTILIZED AS ALLOWED BY CODE		
ROOF LIVE LOAD		
MINIMUM UNIFORM ROOF LIVE LOAD	20 PSF / 300 PT LOAD	
ROOF SNOW LOAD		
GROUND SNOW LOAD (Pg)	10 PSF	
FLAT-ROOF SNOW LOAD (Pi)	7 PSF	
RAIN-ON-SNOW SURCHARGE	5 PSF	
SNOW EXPOSURE FACTOR (Ce)	1.0	
SNOW LOAD IMPORTANCE FACTOR (Is)	1.0	
THERMAL FACTOR (Ci)	1.0	
WIND LOAD		
WIND SPEED (3-SECOND GUST)		
Vult	115 MPH	
Vasst: (0.77*VULT)	90 MPH	
WIND EXPOSURE		
INTERNAL PRESSURE COEFFICIENT	+0.18, -0.18	
COMPONENTS AND CLADDING WIND LOAD		
EFFECTIVE WIND AREA	ZONE	PRESSURE
10 FT.*2	4	+24.4 PSF
10 FT.*2	4	-24.4 PSF
10 FT.*2	5	+24.4 PSF
10 FT.*2	5	-32.5 PSF
EARTHQUAKE DESIGN		
SEISMIC IMPORTANCE FACTOR (Ie)	1.00	
SEISMIC DESIGN CATEGORY	C	
SITE CLASSIFICATION	D	
SEISMIC RESPONSE COEFFICIENTS		
Ss	0.258	
S1	0.120	
Sds	0.274	
Sd1	0.186	
DESIGN BASE SHEAR	43 KIPS	
SEISMIC-FORCE RESISTING SYSTEM PER		
ASCE 7-10 TABLE 12.2-1	TYPE A15	
R	6.5	
Cd	4	
Cs	0.042	
TL	12	
ANALYSIS METHOD	ELFP	
HANDRAIL AND GUARD LOADS		
HANDRAIL AND GUARD	50 PLF / 200 LB PT LOAD	
INTERMEDIATE RAIL	50 LB PT LOAD	

- C. SEE ARCHITECTURAL DRAWINGS FOR ANGLES, CLIPS, PLATES, ETC., AND OTHER MISCELLANEOUS ITEMS. VERIFY AND COORDINATE ALL FRAMES, OPENINGS, ETC. WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS.

- D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING ITEMS. SUBMITTALS INCLUDE BUT MAY NOT BE LIMITED TO:

--CONCRETE MIX DESIGN  
--REINFORCING STEEL  
--STRUCTURAL STEEL  
--PRE-ENGINEERED BUILDING COMPONENTS  
--WOOD TRUSSES  
--STEEL STAIRS

DO NOT USE CONTRACT DRAWINGS AS A BASE FOR SHOPS. REVIEW IS LIMITED TO DESIGN CONFORMANCE. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS.

- E. CONTRACTOR SHALL COORDINATE WITH THE QUALIFIED AGENCY RETAINED BY THE OWNER TO PERFORM INSPECTION AND TESTING. INSPECTIONS REQUIRED INCLUDE, BUT MAY NOT BE LIMITED TO:

--SOILS AND FOUNDATIONS  
--CONCRETE  
--STRUCTURAL STEEL  
--MASONRY

2. EARTHWORK

- A. FOUNDATIONS ARE DESIGNED TO BEAR ON ENGINEERED FILL OR NATURAL SOIL WITH A CAPACITY OF 2,000 PSF, BASED ON RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY OMI, INC. DATED 12/31/2020. THIS VALUE IS TO BE VERIFIED IN THE FIELD BY THE BUILDING INSPECTOR OR A QUALIFIED TESTING AGENCY.

- B. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2 FOOT-0 INCH BELOW FINISH EXTERIOR GRADE. WHERE REQUIRED, STEP FOOTINGS IN RATIO OF 2 HORIZONTAL TO 1 VERTICAL.

- C. COMPACTED BACKFILL BELOW BUILDING SLABS AND FOOTINGS: ALL SOIL FILL MATERIAL MUST BE APPROVED BY SOILS ENGINEER PRIOR TO PLACEMENT. PROOFROLL SUBGRADE REMOVING AND REPLACING SOFT OR COMPRESSIVE MATERIALS. FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 8 INCHES AND COMPACTED TO MIN. 95 PERCENT OF THE DRY MAXIMUM DENSITY AS DETERMINED BY ASTM D698.

- D. AT ROCKY AREAS AROUND AND BELOW EL. 1055 FT MSL: ROCK LEDGES, PINNACLES OR BULDERS, IF ENCOUNTERED AND CONFLICTING WITH THE PROPOSED FOUNDATION SYSTEM, SHALL BE REMOVED BY BLASTING, RIPPING OR HOE RAMMING PER THE GEOTECHNICAL REPORT. ONCE THE AREA HAS BEEN EXCAVATED, A MINIMUM 1 FOOT LAYER OF #2 STONE SHALL BE PLACED ACROSS THE AREA. THE #2 STONE SHALL BE CAPPED WITH A 6" LAYER OF "CRUSHER RUN" (1.5" TO DUST, STONE). SUBSEQUENT LAYERS OF ENGINEERED FILL SHALL THEN BE PLACED TO BUILDING PAD ELEVATIONS, BELOW THE 4" #57 UNDERSLAB BASE.

- E. AT SOIL AREAS AROUND AND ABOVE EL. 1062 FT MSL: AREAS APPROXIMATELY AT BUILDING PAD EL. AND AREAS THAT WILL RECEIVE ENGINEERED FILL SHALL BE OBSERVED BY THE GER PRIOR TO PLACING THE 1 FOOT LAYER OF #2 STONE AND 6" CAP OF CRUSHER RUN. SUBSEQUENT LAYERS OF ENGINEERED FILL SHALL THEN BE PLACED TO BUILDING PAD ELEVATIONS, BELOW THE 4" #57 UNDERSLAB BASE.

3. CONCRETE

- A. CONCRETE CONSTRUCTION SHALL BE PER THE APPLICABLE BUILDING CODE, ACI 318 AND ACI 301, LATEST EDITIONS.

- B. CONCRETE SHALL ATTAIN THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS PER ASTM A39.

--FOOTINGS, PIERS	3,000 PSI
--SLAB-ON-GRADE	3,500 PSI
--RETAINING WALLS	4,000 PSI

- C. VERIFY CONCRETE STRENGTHS WITH A MINIMUM OF ONE SET OF NINE 4X8-INCH COMPRESSION CYLINDERS, (3 @ 7 DAYS, 3 @ 28, 3 SPARE).

- D. EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED TO PROVIDE AN AIR CONTENT OF 6+/-1.5 PERCENT BY VOLUME.

- E. PROVIDE CLEAR DISTANCE TO OUTERMOST REINFORCING AS FOLLOWS:

CONCRETE CAST AGAINST EARTH	3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#5 OR SMALLER	1-1/2 INCHES
#6 OR LARGER	2 INCHES

- F. NON-SHRINK GROUT FOR COLUMNS BASE PLATES SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH: F'c = 5,000 PSI.

- G. REINFORCING STEEL SHALL CONFORM TO A615-GR60. MESH SHALL CONFORM TO ASTM A185 WITH MINIMUM LAPS OF 8 INCHES. PLACING PLANS AND SHOP FABRICATION DETAILS SHALL BE IN ACCORDANCE WITH "THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES". FURNISH SUPPORT BARS AND ACCESSORIES IN ACCORDANCE WITH C.R.S.I. STANDARDS.

- H. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING IN WALLS AND FOOTINGS. SPLICE LAPS SHALL BE A MINIMUM OF 36 BAR DIAMETERS, UNLESS NOTED OTHERWISE. PROVIDE DOWELS BETWEEN FOOTINGS AND WALLS OR PIERS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.

- I. WALLS WITH LATERAL EARTH PRESSURES SHALL BE ADEQUATELY SHORED OR FLOOR/ROOF CONSTRUCTION SHALL BE IN PLACE AND SECURED PRIOR TO BACKFILLING.

- J. INSTALLATION OF ELECTRICAL CONDUIT WITHIN THE CONCRETE SLAB-ON-GRADE IS PROHIBITED.

4. MASONRY

- A. MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" TMS 402/ACI-530/ASCE 5 AND THE "SPECIFICATIONS FOR MASONRY STRUCTURES" TMS 602/ACI-530.1/ASCE 6, LATEST EDITIONS.

- B. MASONRY TO CONFORM TO THE FOLLOWING SPECIFICATIONS:

HOLLOW LOAD-BEARING C.M.U	ASTM C90
CONCRETE BUILDING BRICK	ASTM C55, GRADE A
MORTAR	ASTM C270, TYPE M OR S
GROUT	ASTM C476

- C. MASONRY ASSEMBLIES SHALL HAVE COMPRESSIVE STRENGTH (F'M) GREATER THAN OR EQUAL TO 2000 PSI.

- D. WALLS SHALL BE CONSTRUCTED USING A FULL BED OF MORTAR. VERTICAL REINFORCING SHALL BE GROUTED IN PLACE WITH 2500 PSI GROUT (GROUT SLUMP SHALL FALL BETWEEN 8 AND 11 INCHES) POUR HEIGHT AND LIFT HEIGHT SHALL NOT EXCEED 5 FEET - 0 INCHES.

- E. PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCING IN MASONRY WALLS AT 16 INCHES O.C. PROVIDE AT 8 INCHES O.C. AT PARAPETS.

- F. CAVITY WALLS OF BRICK AND BLOCK SHALL BE CONSTRUCTED WITH JOINT REINFORCING IN MASONRY AND ADJUSTABLE METAL ANCHORS TO BRICK.

- G. UNLESS NOTED OTHERWISE, PROVIDE 16 INCH LONG BY 24 INCHES HIGH SOLID OR GROUTED BLOCK UNDER BEARING ENDS OF BEAMS.

- H. PROVIDE 48 INCH REINFORCEMENT LAP AT CONTINUOUS BOND BEAM STEPS.

- I. COMPOSITE WALLS SHALL HAVE THE COLLAR JOINT BETWEEN BRICK AND BLOCK GROUTED SOLID AND THE WALLS SHALL BE BUILT WITH BOTH WYTHES SIMULTANEOUSLY.

- J. MASONRY WALLS SHALL HAVE CONTROL JOINTS AT 30 FEET ON CENTER UNLESS NOTED OTHERWISE.

- K. REINFORCING STEEL SHALL CONFORM TO ASTM A615-GR60. LAP BARS A MINIMUM OF 48 BAR DIAMETERS. GROUT ALL REINFORCED CORES SOLID.

- L. UNLESS SHOWN ON PLAN, LINTELS FOR MASONRY WALLS SHALL BE AS FOLLOWS:

OPENINGS TO 3 FT, 0 IN	3-1/2 X 3-1/2 X 1/4
3 FT, 1 IN TO 5 FT, 0 IN	4 X 3-1/2 X 5/16 - 3-1/2 HORIZONTAL
5 FT, 1 IN TO 6 FT, 6 IN	5 X 3-1/2 X 5/16 - 3-1/2 HORIZONTAL
OVER 6 FT, 6 IN	CONSULT ARCHITECT/ENGINEER

- PROVIDE 1 ANGLE FOR EACH 4 INCHES OF WALL THICKNESS. LINTELS SHALL BEAR 6 INCHES MINIMUM EACH END U.N.O.

- M. PROVIDE TWO-PIECE ADJUSTABLE ANCHORS TO MASONRY AT A MAXIMUM SPACING OF 24 INCHES O.C. AT ALL VERTICAL AND HORIZONTAL STRUCTURAL STEEL MEMBERS.

- N. CAVITY WALLS OF BRICK WITH STUD BACKUP SHALL BE CONSTRUCTED WITH TWO-PIECE ADJUSTABLE METAL ANCHORS AT A MAXIMUM SPACING OF 16 INCHES O.C. HORIZONTAL (INTO STUDS) AND 24 INCHES O.C. VERTICAL. AT BRICK WALLS OVER 30 FEET HIGH, PROVIDE ANCHORS AT 16 INCHES O.C. HORIZONTAL AND VERTICAL.

- O. ALL NON-LOADBEARING MASONRY WALLS SHALL BE PROVIDED WITH VERTICAL SLIP CONNECTIONS AT THE TOP OF THE WALL, U.N.O.

5. STEEL

- A. STEEL CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND SHALL CONFORM TO AISC 360. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

WIDE FLANGE SHAPES	A992 - GR50
STEEL PLATES, CHANNELS AND ANGLES	A36
STRUCTURAL PIPES	A53 - GR B
STRUCTURAL RECT/ROUND (HSS)	A500 - GR B
ANCHOR RODS (3/4" DIAM. OR LESS)	F1554 - 36 KSI
ANCHOR RODS (7/8" DIAM. OR GREATER)	F1554 - 55 KSI
HIGH-STRENGTH BOLTS	A325
HEADED STUDS	A108

- B. BOLTED CONNECTIONS TO USE A325-TYPE N, HIGH STRENGTH BOLTS IN BEARING TYPE CONNECTIONS TIGHTENED TO A SNUG TIGHT CONDITION IN ACCORDANCE WITH RCSC SPECIFICATIONS.

- C. STEEL CONNECTIONS TO BE WELDED OR BOLTED. FIELD CONNECTIONS TO BE BOLTED UNLESS OTHERWISE SHOWN. BOLT HOLES TO BE STANDARD ROUND HOLES (d+1/16 INCHES) UNLESS OTHERWISE NOTED. SHORT SLOTS SHALL BE PERMITTED NORMAL TO THE LOAD DIRECTION IN SLIP CRITICAL AND BEARING TYPE CONNECTIONS AS PER AISC REQUIREMENTS.

- D. IF BEAM REACTIONS ARE DENOTED ON THE DRAWINGS, BEAM-WEB CONNECTIONS FOR SHEAR AT EACH END SHALL BE DETAILED TO SUPPORT THE LOADS SHOWN OR PROVIDE THE FOLLOWING MINIMUM NUMBER OF BOLTS, WHICHEVER IS GREATER. STIFFENED SEATS SHALL BE DETAILED TO SUPPORT THE LOADS SHOWN ON THE DRAWINGS OR THE MINIMUM FACTORED LOADS INDICATED BELOW, WHICHEVER IS GREATER.

	BEAM/WEB	STIFF. SEAT
W8 OR W10	2 BOLTS	20K
W12 OR W14	3 BOLTS	30K
W16 OR W18	4 BOLTS	40K
W21 OR W24	5 BOLTS	60K

- E. STRUCTURAL STEEL SHALL BE GIVEN ONE SHOP COAT OF APPROVED SHOP PRIMER APPLIED TO CLEAN AND DRY SURFACES. DO NOT PAINT STEEL THAT WILL BE FIREPROOFED OR EMBEDDED IN CONCRETE.

- F. STEEL BEAMS SHALL BE WELDED TO STEEL BEARING PLATES WITH 3 INCH LONG BY 1/4-INCH FILLET WELD EACH SIDE OF FLANGE (MINIMUM).

- G. WELDING OF STRUCTURAL STEEL SHALL BE WITH E70XX ELECTRODES.

- H. STEEL FLITCH BEAMS SHALL BE CONNECTED WITH 1/2" DIAMETER THROUGH BOLTS @ 16" O.C. WITH THE FIRST ROW OF BOLTS 6" FROM EACH END. SEE SCHEDULE ON S1-401.

6. WOOD FRAMING (CONVENTIONAL/TYPE V)

- A. FRAMING LUMBER FOR STUDS, HEADERS AND JOISTS SHALL BE HEM FIR #2, SPRUCE-PINE-FIR (SPF) #2, OR BETTER, WITH A MAXIMUM MOISTURE CONTENT OF 19-PERCENT, HAVING THE FOLLOWING MINIMUM PROPERTIES (BASED ON 2X12 MEMBERS):

BENDING STRESS "Fb"	= 850 PSI FOR SINGLE MEMBER USE
HORIZONTAL SHEAR "Fv"	= 135 PSI
COMPRESSION PERPENDICULAR TO GRAIN "Fc"	= 405 PSI
COMPRESSION PARALLEL TO GRAIN "Fc11"	= 1150 PSI
MODULUS OF ELASTICITY "E"	= 1,300,000 PSI

NOTE: SPF (SOUTH) IS NOT ACCEPTABLE.

- B. ALL EXPOSED EXTERIOR FRAMING AND FRAMING IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE-TREATED (PT). FRAMING SHALL BE PRESSURE-TREATED WITH ALKALINE COPPER QUAT (ACQ) OR COPPER AZOLE (CBA-A AND CA-B), NOT SODIUM BORATE (SBX). PT LUMBER SHALL NOT BE INCISED.

- C. STRUCTURAL POSTS AND TREATED LUMBER (PT) SHALL BE SOUTHERN PINE (SP) #2 OR BETTER, HAVING THE FOLLOWING MINIMUM PROPERTIES (BASED ON 2X12 MEMBERS):

STRENGTH	
BENDING STRESS "Fb"	= 750 PSI SINGLE MEMBER USE
HORIZONTAL SHEAR "Fv"	= 175 PSI
COMPRESSION PERPENDICULAR TO GRAIN "Fc"	= 565 PSI
COMPRESSION PARALLEL TO GRAIN "Fc11"	= 1,250 PSI
MODULUS OF ELASTICITY "E"	= 1,400,000 PSI

- D. LAMINATED VENEER LUMBER (LVL OR MICROLAM) BEAMS SHALL CONFORM TO ASTM D 5456 AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES (BASED ON 1-3/4 X 11-7/8 MEMBERS):

BENDING STRESS "Fb"	= 2600 PSI
HORIZONTAL SHEAR "Fv"	= 285 PSI
MODULUS OF ELASTICITY "E"	= 2,000,000 PSI
BEARING STRESS "FPERP"	= 750 PSI
EQUIV SPECIFIC GRAVITY FOR CONNECTION DESIGN	= 0.50

- E. PARALLEL STRAND LUMBER (PSL) COLUMNS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

BENDING STRESS "Fb"	= 2,400 PSI
HORIZONTAL SHEAR "Fv"	= 190 PSI
COMPRESSION PARALLEL TO GRAIN "Fc11"	= 2,500 PSI
MODULUS OF ELASTICITY "E"	= 1,800,000 PSI

- F. AT EXTERIOR WALLS, PROVIDE SOLID BLOCKING AT 4 FEET ON CENTER BETWEEN BAND JOIST AND FIRST INTERIOR PARALLEL JOIST.

- G. PREFABRICATED JOIST HANGERS, BEAM HANGERS, POST CAPS, AND POST BASES SHALL BE SIZED AND ATTACHED PER MANUFACTURER'S RECOMMENDATIONS, TO ACHIEVE AT LEAST THE MINIMUM MANUFACTURER LISTED CAPACITIES, UNO ON THE DRAWINGS. FASTENERS AND CONNECTORS UTILIZED WITH TREATED LUMBER (PT OR FRT) SHALL MEET G185 HOT-DIPPED GALVANIZING.

- H. ANCHOR BOLTS CONNECTING PRESSURE-TREATED WOOD PLATES TO FOUNDATIONS, MASONRY WALLS, OR CONCRETE SLABS SHALL BE HOT-DIPPED GALVANIZED.

- I. BUILT-UP STUD COLUMNS SHALL HAVE ONE JACK STUD AND THE REMAINING STUDS SHALL BE KING STUDS. MULTIPLE STUDS SHALL BE NAILED WITH 10D NAILS AT 8 INCHES O.C. PROVIDE SOLID BLOCKING OR CRIPPLE STUDS IN FLOOR SYSTEM AT ALL POINT LOADS ABOVE.

- J. FREESTANDING POSTS SHALL HAVE PREFAB POSTCAP AND BASE. POSTS WITHIN WALL NEED ONLY HAVE PREFAB CAP ATTACHED TO BEAM, UNO. POSTS WITHIN WALL BEARING ON MASONRY OR CONCRETE SHALL HAVE PREFAB BASE, UNO.

- K. STANDARD MEMBER CONNECTIONS SHALL BE PER FASTENING SCHEDULE IN SECTION 23 OF THE INTERNATIONAL BUILDING CODE (IBC), UNO.

- L. STUD BEARING WALLS TO BE PROVIDED WITH 2 CONTINUOUS TOP PLATES AND 1 CONTINUOUS BOTTOM PLATE WITH A MINIMUM OF ONE ROW OF HORIZONTAL BRIDGING AT MID-HEIGHT OF WALL UNLESS NOTED OTHERWISE. SPLICES OF TOP PLATES SHALL OCCUR OVER STUD AND SHALL BE STAGGERED A MINIMUM OF FOUR FEET.

- M. NAILS FOR FRAMING AND SHEATHING CONNECTIONS SPECIFIED IN THE DRAWINGS AND ASSOCIATED NOTES SHALL CONFORM TO ASTM F1667 AND SHALL MEET THE FOLLOWING MINIMUM SIZE REQUIREMENTS:

TYPE	DIAMETER x LENGTH
8d	0.131" x 2-1/2"
10d	0.148" x 3"
12d	0.148" x 3-1/4"
16d	0.162" x 3-1/2"
20d	0.192" x 4"

SHANK DIAMETER	MINIMUM STRENGTH
0.099" TO 0.142"	100 KSI
0.143" TO 0.177"	90 KSI
0.178" TO 0.254"	80 KSI

NOTE: NAILS USED IN STANDARD CONNECTIONS SHALL BE SIZED PER THE REQUIREMENTS OF THE BUILDING CODE.

- N. ROOF MEMBERS SHALL BE CONNECTED AT EACH BEARING POINT WITH ONE PREFABRICATED GALVANIZED METAL ANCHOR. ANCHORS SHALL BE 18 GAGE MINIMUM AND SHALL BE ATTACHED TO HAVE A CAPACITY TO RESIST A 450# UPLIFT LOADING, UNLESS SHOWN OTHERWISE ON DRAWINGS.

- P. THE MINIMUM DEPTH AND MAXIMUM SPACING OF WOOD TRUSSES IS SHOWN ON DRAWINGS. THE SUPPLIER SHALL ADJUST SPACING AS REQUIRED TO MEET THE LOADINGS DESIGNATED ON THE DRAWING.

- Q. PROVIDE LSL BAND BOARD IN WOOD TRUSS SYSTEMS AT ALL PERIMETER BEARING WALLS. ALTERNATIVELY, PROVIDE 2x3/4 INCH PLYWOOD BANDS GLUED AND SCREWED TOGETHER. PROVIDE SQUASH BLOCKS AND STIFFENERS AS REQUIRED TO DISTRIBUTE LOADINGS AND AS REQUIRED BY MANUFACTURER. PROVIDE SOLID BLOCKING AT INTERIOR JOIST SUPPORTS WITH BEARING WALLS ABOVE.

- R. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS.

- S. PREFABRICATED TRUSSES SHALL BE DESIGNED FOR THE LOADS SCHEDULED ON THE DRAWINGS. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW. THE DESIGN OF THE BRACING REQUIRED TO LATERALLY STABILIZE THE TRUSSES AND TRUSS MEMBERS SHALL BE THE RESPONSIBILITY OF THE SPECIALTY TRUSS ENGINEER. AFFIX SEAL OF ENGINEER REGISTERED IN THE STATE OF THE PROPOSED PROJECT. TEMPORARY BRACING DURING ERECTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

7. SHEATHING

- A. FLOOR SHEATHING SHALL BE 23/32 (3/4) INCH APA RATED STURD-I (COMBINATION SUBFLOOR-UNDERLAYMENT) WOOD STRUCTURAL PANEL, TONGUE AND GROOVE, WITH SPAN RATING OF 48/24. PANELS SHALL HAVE LONG DIMENSION ORIENTED ACROSS THREE OR MORE JOISTS AND SHALL BE FASTENED WITH CONSTRUCTION ADHESIVE AND NAILS AT PANEL EDGES AND INTERMEDIATE SUPPORTS AS SCHEDULED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, PANEL EDGES NEED NOT BE BLOCKED. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

- B. EXTERIOR WALLS SHALL BE 7/16 (1/2) INCH APA RATED WOOD STRUCTURAL PANELS, UNO AS SHEAR WALL. FASTEN PANELS TO STUDS WITH 8D NAILS AT 6 INCHES ON CENTER AT PANEL EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED. IF EXTERIOR WALLS ARE DENOTED AS SHEAR WALLS, THEY SHALL BE SHEATHED, FASTENED AND BLOCKED AS SCHEDULED ON THE DRAWINGS.

- C. SHEARWALLS SHALL BE SHEATHED, FASTENED AND BLOCKED AS SCHEDULED ON THE DRAWINGS.

- D. ROOF SHEATHING SHALL BE 23/32 (3/4) INCH APA RATED WOOD STRUCTURAL PANEL, TONGUE AND GROOVE, WITH SPAN RATING OF 48/24. PANELS SHALL HAVE LONG DIMENSION ORIENTED ACROSS THREE OR MORE JOISTS AND SHALL BE GALVANIZED WITH CONSTRUCTION ADHESIVE AND NAILS AT PANEL EDGES AND INTERMEDIATE SUPPORTS AS SCHEDULED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, PANEL EDGES NEED NOT BE BLOCKED.

8. POST-INSTALLED ANCHORS IN CONCRETE AND MASONRY

A. GENERAL

INSTALL ANCHORS IN STRICT CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND PROCEDURES. ALL POST-INSTALLED ANCHORS IN CONCRETE SHALL HAVE ICC APPROVAL FOR USE IN CRACKED CONCRETE.

SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE SUBMITTED FOR APPROVAL PRIOR TO USE. CONTRACTOR SHALL PROVIDE LOAD CAPACITIES DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT.

PROVIDE STAINLESS STEEL FASTENERS FOR EXTERIOR USE OR WHEN PERMANENTLY EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.

B. PRODUCTS

ANCHORS IN CONCRETE:

--EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ.  
--UNDERCUT ANCHORS SHALL BE HILTI HDA.  
--SCREW ANCHORS SHALL BE HILTI KWIK HUS.  
--ADHESIVE ANCHORS SHALL BE HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HIT-Z ROD OR WITH HILTI HOLLOW DRILL BIT SYSTEM WITH HAS-E THREADED ROD.

ANCHORS IN MASONRY:

--EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ. GROUT MASONRY CELLS SOLID WITH 2000 PSI GROUT AT ANCHOR LOCATIONS.  
--SCREW ANCHORS SHALL BE HILTI KWIK HUS. GROUT MASONRY CELLS SOLID WITH 2000 PSI GROUT AT ANCHOR LOCATIONS.  
--ADHESIVE ANCHORS IN SOLID MASONRY SHALL BE HILTI HIT-HY 270 ADHESIVE ANCHORING SYSTEM. STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR HILTI HIS-N INTERNALLY THREADED INSERT.  
--ADHESIVE ANCHORS IN HOLLOW OR MULTI-WYTHE MASONRY SHALL BE HILTI HIT-HY 270 ADHESIVE ANCHORING SYSTEM. STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR HILTI HIT-IC INTERNALLY THREADED INSERT. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER THE ADHESIVE MANUFACTURER'S RECOMMENDATION.

C. INSTALLATION

ALL INSTALLATION PROCEDURES SHALL BE PER MANUFACTURERS RECOMMENDATIONS. COORDINATE AND/OR PROVIDE FOR THIRD PARTY INSPECTION AS REQUIRED BY BUILDING CODE OR LOCAL JURISDICTION.

ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHOR TO EDGE OF CONCRETE OR MASONRY. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE DISTANCE INDICATED ON THE DRAWINGS. IF NOT SHOWN, COMPLY WITH MINIMUM SPACING AND EDGE DISTANCE FOR FULL ANCHOR CAPACITY, AS SPECIFIED BY MANUFACTURER.

EXISTING REINFORCING BARS IN THE CONCRETE OR MASONRY STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. DO NOT CUT OR DAMAGE REINFORCING BARS UNLESS SPECIFICALLY PERMITTED IN THE DRAWINGS.

PRIOR TO DRILLING, THE CONTRACTOR SHALL LOCATE REINFORCING BAR POSITIONS IN THE IMMEDIATE VICINITY OF PROPOSED POST-INSTALLED ANCHORS USING GPR, X-RAY, OR OTHER NON-DESTRUCTIVE MEANS.

WHEN CONFLICTS BETWEEN PROPOSED ANCHORS AND EXISTING REINFORCING BARS EXIST, SUBMIT RESULTS OF BAR LOCATIONS TO ARCHITECT / ENGINEER FOR REVIEW AND FURTHER DIRECTION.

WARNING: THE STRUCTURAL INTEGRITY OF THE BUILDING SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. STRUCTURAL MEMBERS ARE NOT SELF-BRACING UNTIL PERMANENTLY AFFIXED TO THE STRUCTURE. THE STRUCTURAL ENGINEERS ASSUME NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.  
09/18

ABBREVIATIONS & LEGEND			
A	ANCHOR BOLT	K	KIP
AB	ADDITIONAL	KO	KNOCK-OUT
ADJ	ADJACENT	KSI	KIPS PER SQ. INCH
ALT	ALTERNATE	L	LINTEL MARK
AFF	ABOVE FINISH FLOOR	LLH	LONG LEG HORIZONTAL
APPROX	APPROXIMATE(LY)	LLV	LONG LEG VERTICAL
ARCH	ARCHITECT(URAL)	LP	LIVE LOAD
B	BEAM	LVL	LOW POINT
BF	BOTTOM OF FOOTING ELEVATION		LAMINATED VENEER LUMBER
BLOCKING	BLOCKING	M	
BLKG	BUILDING	MANUF	MANUFACTURER(ED)
BLDG	BEAM	MAS	MASONRY
BM	BOTTOM OF DECK	MAX	MAXIMUM
BOD	BOTTOM OF STEEL	MIN	MINIMUM
BOTT	BOTTOM	MISC	MISCELLANEOUS
BP	BEARING PLATE MARK	MO	MASONRY OPENING
BRG	BEARING	MTL	MATERIAL
BSMT	BASEMENT		METAL
BTWN	BETWEEN	N	
C	COLUMN MARK	NTS	NOT TO SCALE
CIP	CAST IN PLACE	NS	NEAR SIDE
CJ	CONTROL/CONSTRUCTION JOINT	NIC	NOT IN CONTACT
CLR	CLEARANCE	O	
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER(S)
COL	COLUMN	OPENG	
COM	CENTER OF MASONRY WALL	OPP	OPPOSITE
COMP	COMPOSITE	OF	OUTSIDE FACE
CONC	CONCRETE	P	
CONNT	CONNECTION	P	PIER MARK
CONSTR	CONSTRUCTION	PC	PRECAST CONCRETE
CONT	CONTINUOUS	POF	POWER DRIVEN FASTENER
COORD	COORDINATE(TION)	PFB	PRE-ENGINEERED BUILDING
COS	CENTER OF STUD	PERIM	PERIMETER
D	DEAD LOAD	PLATE	
DBA	DEFORMED BAR ANCHORS	PLF	POUNDS PER LINEAR FOOT
DTL		PLP	PRECAST PLANK MARK
DIAM	DIAMETER	PROJ	PROJECTION
DIAG	DIAGONAL	PSF	POUNDS PER SQ. FOOT
DN	DOWN	PSI	POUNDS PER SQ. INCH
DWG	DRAWING	PSL	PARALLEL STRAND LUMBER COLUMN
DBL	DOUBLE	PT	POST TENSION(ED)/PRESSURE TREATED
DEAD	DEAD LOAD	Q	
E	EACH	QTY	QUANTITY
EA	EACH	R	
EE	EACH END	R	RADIUS
EL	ELEVATION	RD	ROOF DRAIN
ELEV	ELEVATOR	REV	REVISION, REVISE(D)
EOD	EDGE OF DECK	REINF	REINFORCE(D), (ING)
EOJ	EDGE OF JOIST	REM	REMAINDER
EOS	EDGE OF SLAB	REQUIRED	
EQ	EQUAL	RTU	ROOF TOP UNIT
EQUIP	EQUIPMENT	S	
ES	EACH SIDE	SB	SOIL BORING
EW	EACH WAY	SC	SUP CRITICAL
EXIST. EX	EXISTING	SE	SPECIALTY DESIGN ENGINEER
EXP	EXPANSION	SIM	SIMILAR
EXT	EXTERIOR	SJI	STEEL JOIST INSTITUTE
F	FOOTING MARK	SO	SLAB ON GRADE
FD	FOOT DRAIN	SQ	SQUARE
FDN	FOUNDATION	STD	STANDARD
FOB	FACE OF BUILDING	STL	STEEL
FOM	FACE OF MASONRY WALL	STRUCT	STRUCTURAL
FOS	FACE OF STUD	SPA	SPACES
FS	FOOTING STEP	SL	SNOW LOAD
FTG	FOOTING	SS	STAINLESS STEEL
FUTURE	FUTURE	T	
G	GAGE	TEMP	TEMPORARY
GA	GAGE, GAUGE	THK	TOP OF FOOTING ELEVATION
GALV	GALVANIZED	THK	(THICKNESS), (ENED)
GER	GENERAL CONTRACT(OR)	TO	WOOD JOIST
GTR	GIRDER TRUSS	TO	THROUGH OUT
H		TOT	TOP OF CONCRETE
HORIZ	HORIZONTAL	TOT	TOP OF PIER ELEVATION
HP	HIGH POINT	TOS	TOP OF STEEL ELEVATION
HS	HIGH STRENGTH	TOW	TOP OF WALL ELEVATION
HT	HEIGHT	TYP	TYPICAL
HTR	HIP TRUSS	U	
I		UNEXC	UNEXCAVATED
INFO	INFORMATION	UNO	UNLESS NOTED OTHERWISE
IF	INSIDE FACE	UMD	UNDERSIDE METAL DECK ELEVATION
J		V	
JBE	JOIST BEARING ELEVATION	VERT	VERTICAL
JST	JOIST	VIF	VERIFY IN FIELD
JT	JOINT	W	
JTR	JACK TRUSS	W	WITH
		WF	WIND FRAME
		WP	WORK POINT
		WWF	WELDED WIRE FABRIC



30x42 SCHEDULE OF SPECIAL INSPECTIONS									
	VERIFICATION AND INSPECTION	Y/N	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	REFERENCED STANDARD	IBC REFERENCE	SCOPE OF SERVICE	RESPONSIBLE PARTY	
	STRUCTURAL STEEL					1705.2	-		
1.	HIGH-STRENGTH BOLTING: INSPECTION TASKS PRIOR TO BOLTING								
A.	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	Y	X	-	-	1705.2	-	SIER	
B.	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	Y	-	X	AISC 360 & applicable ASTM material standards	1705.2	-	SIER	
C.	PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS ONLY	SIER	
D.	PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS ONLY	SIER	
E.	CONNECTING ELEMENTS INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION & HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS ONLY	SIER	
F.	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED & DOCUMENTED FOR FASTENER ASSEMBLIES & METHODS USED.	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS ONLY	SIER	
G.	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, & OTHER FASTENER COMPONENTS	Y	-	X	AISC 360	1705.2	-	SIER	
2.	HIGH-STRENGTH BOLTING: INSPECTION TASKS DURING BOLTING								
A.	FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES & WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS USING CALIBRATED WRENCH METHOD OR TURN-OF-NUT WITHOUT MATCHMARKING ONLY	SIER	
B.	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING OPERATION.	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS USING CALIBRATED WRENCH METHOD OR TURN-OF-NUT WITHOUT MATCHMARKING ONLY	SIER	
C.	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS USING CALIBRATED WRENCH METHOD OR TURN-OF-NUT WITHOUT MATCHMARKING ONLY	SIER	
D.	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS USING CALIBRATED WRENCH METHOD OR TURN-OF-NUT WITHOUT MATCHMARKING ONLY	SIER	
3.	HIGH-STRENGTH BOLTING: INSPECTION TASKS AFTER BOLTING								
A.	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	Y	X	-	AISC 360	1705.2	-	SIER	
4.	WELDING: INSPECTION TASKS PRIOR TO WELDING								
A.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	Y	X	X	AISC 360 & applicable AWS Documents	1705.2	ESTABLISH THE JOINT WELDING PROCEDURES ARE PREQUALIFIED OR TEST IN ACCORDANCE WITH AWS D1.1 QUALIFICATION PROCEDURES	SIER	
B.	MANUFACTURER'S CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
C.	MATERIAL IDENTIFICATION (TYPE/GRADE).	Y	-	X	AISC 360	1705.2	-	SIER	
D.	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):								
1.)	JOINT PREPARATION	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
2.)	DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
3.)	CLEANLINESS (CONDITION OF STEEL SURFACES)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
4.)	TACKING (TACK WELD QUALITY & LOCATION)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
5.)	BACKING TYPE & FIT (IF APPLICABLE)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
E.	CONFIGURATION & FINISH OF ACCESS HOLES	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
F.	FIT-UP OF FILLET WELDS:								
1.)	DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
2.)	CLEANLINESS (CONDITION OF STEEL SURFACES)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
3.)	TACKING (TACK WELD QUALITY & LOCATION)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
5.	WELDING: INSPECTION TASKS DURING WELDING								
A.	USE OF QUALIFIED WELDERS	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	WELDERS MUST BE CURRENTLY CERTIFIED UNDER AMERICAN WELDING SOCIETY QUALIFICATION PROCEDURES.	SIER	
B.	CONTROL & HANDLING OF WELDING CONSUMABLES INCLUDING PACKAGING & EXPOSURE CONTROL	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
C.	ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION, & TEMPERATURE	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
D.	WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.), PROPER POSITION (F.V./H./OH).	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
E.	WELDING TECHNIQUES: INTERPASS & FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS.	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
6.	WELDING: INSPECTION TASKS AFTER WELDING								
A.	WELDS CLEANED	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
B.	SIZE, LENGTH, & LOCATION OF WELDS	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
C.	WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	PERFORM ULTRASONIC TESTING OF ALL FULL PENETRATION FIELD & SHOP WELDS TO COMPLY WITH ASTM E 164 PER PROJECT SPECIFICATIONS.	SIER	
D.	ARC STRIKES	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
E.	K-AREA	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	WHEN WELDING DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. OF THE WELD.	SIER	
F.	BACKING REMOVED & WELD TABS REMOVED (IF REQUIRED)	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
G.	REPAIR ACTIVITIES	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
H.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	-	SIER	
7.	STEEL ELEMENT OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT								
A.	PLACEMENT & INSTALLATION OF STEEL DECK	N	-	-	AWS D1.3 AISC 360	1705.2	-	-	
B.	PLACEMENT & INSTALLATION OF STEEL HEADED STUD ANCHORS	N	-	-	AWS D1.1 AISC 360	1705.2	-	-	
C.	DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	N	-	-	AISC 360	1705.2	-	-	
8.	INSPECTION OF FABRICATORS & FABRICATION PROCEDURES	N	-	-	AISC 360	1704.2.5	-	-	
1.	VERIFY COMPLIANCE OF MATERIALS (ALL DECK AND ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS AND DOCUMENT ACCEPTANCE OR REJECTION	N	-	-	SDI QA/QC	1705.2.2	-	-	
2.	VERIFY COMPLIANCE OF INSTALLATION OF ALL DECK AND ACCESSORIES WITH CONSTRUCTION DOCUMENTS AND VERIFY ACCEPTANCE OR REJECTION	N	-	-	SDI QA/QC	1705.2.2	-	-	
3.	VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	N	-	-	SDI QA/QC	1705.2.2	-	-	
4.	DECK WELDING								
A.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-	-	
B.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-	-	
C.	MATERIAL IDENTIFICATION (TYPE/GRADE).	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-	-	
D.	CHECK WELDING EQUIPMENT	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-	-	
E.	USE OF QUALIFIED WELDERS	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-	-	
F.	CONTROL & HANDLING OF WELDING CONSUMABLES	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-	-	
G.	ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION, & TEMPERATURE	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-	-	
H.	WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.), PROPER POSITION (F.V./H./OH).	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-	-	
I.	VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-	-	
J.	WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-	-	
K.	VERIFY REPAIR ACTIVITIES	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-	-	
L.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-	-	
5.	DECK MECHANICAL FASTENING								
A.	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	N	-	-	SDI QA/QC	1705.2.2	-	-	
B.	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	N	-	-	SDI QA/QC	1705.2.2	-	-	
C.	PROPER STORAGE FOR MECHANICAL FASTENERS	N	-	-	SDI QA/QC	1705.2.2	-	-	
D.	FASTENERS ARE POSITIONED AS REQUIRED	N	-	-	SDI QA/QC	1705.2.2	-	-	
E.	FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	N	-	-	SDI QA/QC	1705.2.2	-	-	
F.	CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS	N	-	-	SDI QA/QC	1705.2.2	-	-	
G.	CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS	N	-	-	SDI QA/QC	1705.2.2	-	-	
H.	CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS	N	-	-	SDI QA/QC	1705.2.2	-	-	
I.	VERIFY REPAIR ACTIVITIES	N	-	-	SDI QA/QC	1705.2.2	-	-	
J.	DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	N	-	-	SDI QA/QC	1705.2.2	-	-	
1.	OPEN-WEB STEEL JOISTS AND JOIST GIRDERS								
END CONNECTIONS - WELDING OR BOLTED	N	-	-	-	SJI Specifications	1705.2.3	-	-	
2.	BRIDGING - HORIZONTAL OR DIAGONAL								
A.	STANDARD BRIDGING	N	-	-	SJI Specifications	1705.2.3	-	-	
B.	BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS	N	-	-	Construction documents & approved shop drawings	1705.2.3	-	-	
	CONCRETE								
1.	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, & PLACEMENT.	Y	-	X	ACI 318	1705.3	VERIFY SIZE, LOCATION, SPACING ORIENTATION, COVER, SPLICING, & CONFORMANCE WITH THE CONTRACT DOCUMENTS, AS SUPPLEMENTED WITH APPROVED SHOP DRAWINGS. OR OTHER SUBMITTALS, CONFIRM THAT THE SURFACE OF THE REINFORCING STEEL IS FREE OF FORM RELEASE OIL OR OTHE	SIER	
2.	INSPECTION OF REINFORCING STEEL WELDING.								
A.	VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	N	-	-	AWS D1.4 ACI 318	1705.3	-	-	
B.	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	N	-	-	AWS D1.4 ACI 318	1705.3	-	-	
C.	INSPECT ALL OTHER WELDS	N	-	-	AWS D1.4 ACI 318	1705.3	-	-	
3.	INSPECT ANCHORS CAST-IN CONCRETE.	Y	-	X	ACI 318	1705.3	PRECISE LOCATION OF ANCHOR RODS IS NOT EXPECTED BUT VERIFY THE CONTRACTOR HAS TAKEN APPROPRIATE STEPS TO CORRECTLY POSITION THEM SUCH AS ENGAGING A SURVEYOR OR SETTING UP A SYSTEM OF STRING LINES & BATTER BOARDS & THAT CORRECT GRADE & SIZE OF ANCHORS IS	SIER	

30x42 SCHEDULE OF SPECIAL INSPECTIONS									
	VERIFICATION AND INSPECTION	Y/N	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	REFERENCED STANDARD	IBC REFERENCE	SCOPE OF SERVICE	RESPONSIBLE PARTY	
4.	INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE.	Y	X	-	ACI 318		0		
A.	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	Y	-	-	ACI 318				
B.	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE	Y	-	X	ACI 318				
5.	VERIFYING USE OF REQUIRED DESIGN MIX.	Y	-	X	ACI 318	1705.3	VERIFY APPROVED MIX DESIGN	SIER	
6.	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP & AIR CONTENT TESTS, & DETERMINE THE TEMPERATURE OF THE CONCRETE.	Y	X	-	ASTM C 172/ASTM C 31/ACI 318	1705.3	TEST IN ACCORDANCE WITH PROJECT SPECIFICATIONS, BUT NOT LESS THAN ONCE PER DAY PER CLASS OF CONCRETE OR ONCE PER 150 CUBIC YARDS PER DAY OR ONCE PER 5,000 SQUARE FEET OF SLAB OR WALL PER DAY. CYLINDERS MUST BE PROPERLY HANDLED & STORED ON SITE UNTIL TRANS	SIER	
7.	INSPECTION OF CONCRETE & SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Y	X	-	ACI 318	1705.3	VERIFY CONFORMANCE WITH PROJECT SPECIFICATIONS. INSPECTOR SHALL BE WHERE THE CONCRETE IS BEING PLACED RATHER THAN WHERE CONCRETE TRUCKS ARE DISCHARGING THEIR LOADS. INSPECTOR NEEDS TO BE PRESENT WHILE SLAB IS BEING FLOATED & POWER TROWELED.	SIER	
8.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.	Y	-	X	ACI 318	1705.3	VERIFY CONFORMANCE WITH PROJECT SPECIFICATIONS & ACI	SIER	
9.	INSPECTION OF PRESTRESSED CONCRETE:								
A.	APPLICATION OF PRESTRESSING FORCES.	N	-	-	ACI 318	1705.3	-	-	
B.	GROUTING OF BONDED PRESTRESSING TENDONS.	N	-	-	ACI 318	1705.3	-	-	
10.	ERECTION OF PRECAST CONCRETE MEMBERS	N	-	-	ACI 318	1705.3	-	-	
11.	VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE & PRIOR TO REMOVAL OF SHORES & FORMS FROM BEAMS & STRUCTURAL SLABS.	N	-	-	ACI 318	1705.3	-	-	
12.	INSPECT FORMWORK FOR SHAPE, LOCATION & DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	N	-	-	ACI 318	1705.3	-	-	
	MASONRY								
	LEVEL A QUALITY ASSURANCE: RISK CATEGORY I, II, OR III STRUCTURES DESIGNED IN ACCORDANCE WITH PART 4 OR APPENDIX A.	Y	-	-		1705.4			
	LEVEL B QUALITY ASSURANCE: RISK CATEGORY IV STRUCTURES DESIGNED IN ACCORDANCE WITH CHAPTERS 12 OR 13 & RISK CATEGORY I, II, OR III STRUCTURES DESIGNED IN ACCORDANCE WITH CHAPTERS OTHER THAN THOSE IN PART 4 OR APPENDIX A.	N	-	-		1705.4			
	LEVEL C QUALITY ASSURANCE: RISK CATEGORY IV STRUCTURES DESIGNED IN ACCORDANCE WITH CHAPTERS OTHER THAN PART 4 OR APPENDIX A.	N	-	-		1705.4			
1.	PRIOR TO CONSTRUCTION VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION AND DURING CONSTRUCTION COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS & THE APPROVED SUBMITTALS SHALL BE VERIFIED.	Y	-	X	ACI530.1	1705.4	VERIFY COMPLIANCE WITH APPROVED SHOP DRAWINGS.	SIER	
2.	VERIFICATION OF F/M & FAAC PRIOR TO CONSTRUCTION (AND FOR EVERY 5,000 SQUARE FEET DURING CONSTRUCTION FOR LEVEL C).	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
3.	VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, & GROUT OTHER THAN SELF-CONSOLIDATING GROUT AS DELIVERED TO THE SITE OR PROPORTIONS OF SITE PREPARED MORTAR.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
4.	VERIFICATION OF SLUMP, FLOW & VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
5.	THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:								
A.	PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, & PRESTRESSING GROUT FOR BONDED TENDONS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
B.	PLACEMENT OF MASONRY UNITS & CONSTRUCTION OF MORTAR JOINTS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
C.	GRADE, TYPE, & SIZE OF REINFORCEMENT, ANCHOR BOLTS, PRESTRESSING TENDONS, & ANCHORAGES	N	-	-	TMS 402/ACI 530/ASCE 5	1705.4	-	-	
D.	PLACEMENT OF REINFORCEMENT, CONNECTORS & PRESTRESSING TENDONS & ANCHORAGES.	N	-	-	TMS 402/ACI 530/ASCE 5	1705.4	-	-	
E.	GROUT SPACE PRIOR TO GROUTING.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
F.	PLACEMENT OF GROUT & PRESTRESSING GROUT FOR BONDED TENDONS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
G.	SIZE & LOCATION OF STRUCTURAL ELEMENTS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
H.	TYPE, SIZE & LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	N	-	-	TMS 402/ACI 530/ASCE 5	1705.4	-	-	
I.	WELDING OF REINFORCEMENT.	N	-	-	TMS 402/ACI 530/ASCE 5	1705.4	-	-	
J.	PREPARATION, CONSTRUCTION & PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
K.	APPLICATION & MEASUREMENT OF PRESTRESSING FORCE.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
L.	PLACEMENT OF AAC MASONRY UNITS & CONSTRUCTION OF THIN-BED MORTAR JOINTS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
M.	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
N.	VERIFY PRE-STRESSING TECHNIQUE IS IN COMPLIANCE AS CONSTRUCTION BEGINS	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
6.	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
	WOOD CONSTRUCTION								
1.	INSPECTION OF FABRICATORS & FABRICATION PROCEDURES FOR PREFABRICATED WOOD STRUCTURAL ELEMENTS.	Y	-	X		1705.5	-	-	SIER
2.	HIGH-LOAD DIAPHRAGMS DESIGNED IN ACCORDANCE WITH SECTION 2306.2	N	-	X		1705.5	-	-	SIER
3.	METAL PLATE CONNECTED WOOD TRUSSES SPANNING 60 FEET OR MORE	N	-	-		1705.5	-	-	SIER
	SOILS								
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	Y	-	X	Geotechnical Report	1705.6	-	-	SIER
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH & HAVE REACHED PROPER MATERIAL.	Y	-	X	Geotechnical Report	1705.6	-	-	SIER
3.	PERFORM CLASSIFICATION & TESTING OF COMPACTED FILL MATERIALS.	Y	-	X	Geotechnical Report	1705.6	-	-	SIER
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES, & LIFT THICKNESSES DURING PLACEMENT & COMPACTION OF COMPACTED FILL.	Y	X	-	Geotechnical Report	1705.6	TEST FREQUENCY PER SPECIFICATIONS, BUT NOT LESS THAN ONE TEST EVERY 2,000 SQUARE FEET FOR EACH LAYER OF FILL OR PROOF-ROLLING	SIER	
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE & VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	Y	-	X	Geotechnical Report	1705.6	-	-	SIER
	DRIVEN DEEP FOUNDATIONS								
1.	VERIFY ELEMENT MATERIALS, SIZES, & LENGTHS COMPLY WITH THE REQUIREMENTS.	N	-	-		1705.7	-	-	
2.	DETERMINE CAPACITIES OF TEST ELEMENTS & CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	N	-	-		1705.7	-	-	
3.	OBSERVE DRIVING OPERATIONS & MAINTAIN COMPLETE & ACCURATE RECORDS FOR EACH ELEMENT.	N	-	-		1705.7	-	-	
4.	VERIFY PLACEMENT LOCATIONS & PLUMBNESS, CONFIRM TYPE & SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP & BUTT ELEVATIONS, & DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	N	-	-		1705.7	-	-	
5.	PERFORM ADDITIONAL INSPECTIONS FOR STEEL ELEMENTS PER STEEL INSPECTION REQUIREMENTS.	N	-	-		1705.7	-	-	
6.	PERFORM ADDITIONAL INSPECTIONS FOR CONCRETE & CONCRETE-FILLED ELEMENTS PER CONCRETE INSPECTION REQUIREMENTS.	N	-	-		1705.7	-	-	
7.	PERFORM ADDITIONAL INSPECTIONS FOR SPECIALTY ELEMENTS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN CHARGE.	N	-	-		1705.7	-	-	
	CAST-IN-PLACE DEEP FOUNDATIONS								
1.	OBSERVE DRILLING OPERATIONS & MAINTAIN COMPLETE & ACCURATE RECORDS FOR EACH ELEMENT.	N	-	-		1705.8	-	-	
2.	VERIFY PLACEMENT LOCATIONS & PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE), & ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	N	-	-		1705.8	-	-	
3.	PERFORM ADDITIONAL INSPECTIONS FOR CONCRETE ELEMENTS PER CONCRETE INSPECTION REQUIREMENTS.	N	-	-		1705.8	-	-	
	HELICAL PILE FOUNDATIONS								
1.	RECORD INSTALLATION EQUIPMENT USED, PILE DIMENSIONS, TIP ELEVATIONS, FINAL DEPTH, & FINAL INSTALLATION TORQUE.	N	-	-	Geotechnical Report & Approved Shop Drawings	1705.9	-	-	
	SPRAYED FIRE-RESISTANT MATERIALS								
1.	CONDITIONS OF SUBSTRATES	N	-	-	Approved fire-resistance design	1705.14	-	-	
2.	THICKNESS OF APPLICATION	N	-	-	Approved fire-resistance design	1705.14	-	-	
3.	DENSITY IN POUNDS PER CUBIC FOOT	N	-	-	Approved fire-resistance design	1705.14	-	-	
4.	BOND STRENGTH ADHESION /COHESION	N	-	-	Approved fire-resistance design	1705.14	-	-	
5.	CONDITION OF FINISHED APPLICATION	N	-	-	Approved fire-resistance design	1705.14	-	-	
6.	FIRE-RESISTANT PENETRATIONS & JOINTS	N	-	-	Approved fire-resistance design	1705.17	-	-	
	LIGHT GAGE METAL FRAMING	N	-	-	Approved shop drawings		-	-	
	MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS	N	-	-	AWCI-128 & approved fire-resistance design	1705.15	-	-	
	EXTERIOR INSULATION & FINISH SYSTEMS (EIFS)	N	-	-	-	1705.16	-	-	

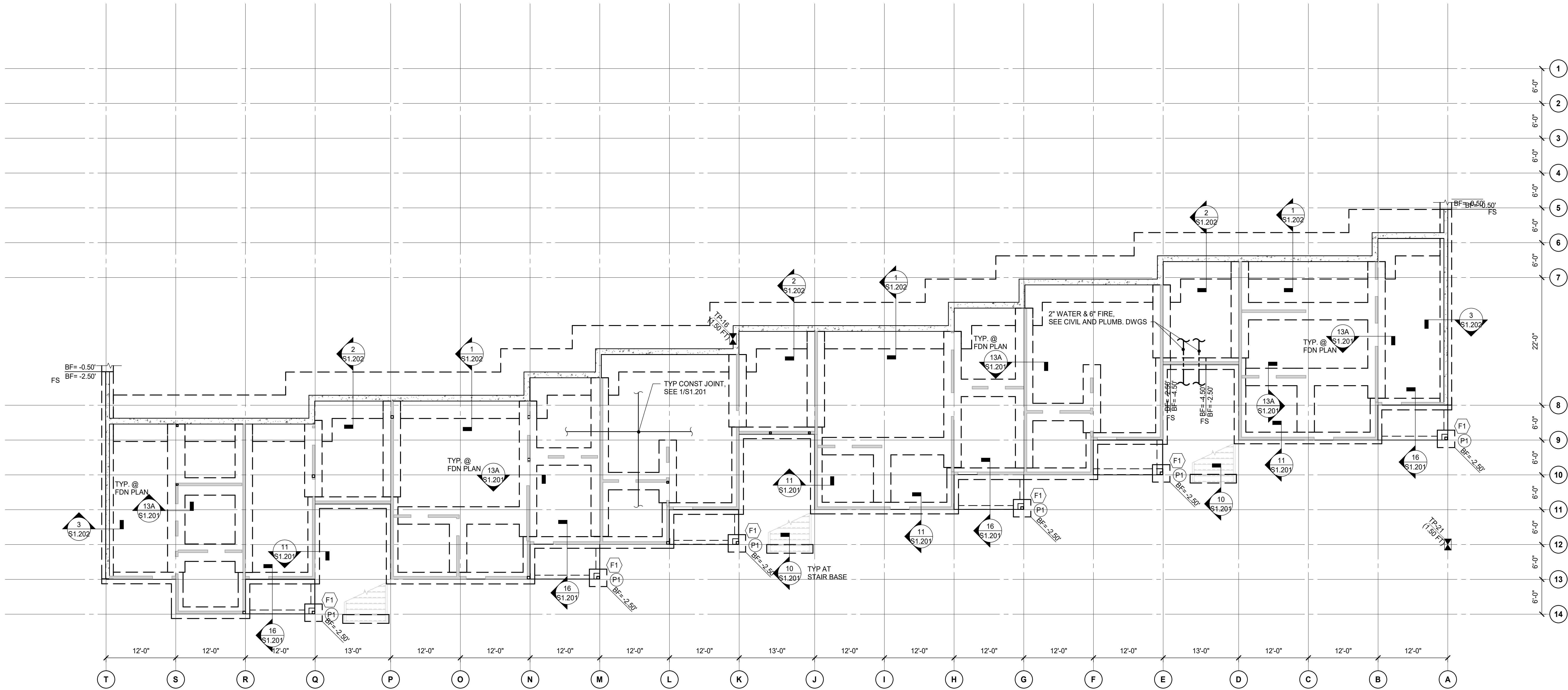




KEYPLAN  
SCALE: 1" = 50'-0"







FOUNDATION PLAN

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

NOTES

- FLOOR CONSTRUCTION: 4" CONCRETE SLAB-ON-GRADE REINFORCED WITH ONE LAYER OF 6X6-W1.4 X W1.4 WWF IN THE TOP 1/3 OF SLAB PLACED OVER 10 MIL VAPOR RETARDER ON 4" LAYER OF COMPACTED #57 STONE.
- TOP OF CONCRETE ELEVATION = 0.00' REFERENCE (ACTUAL ELEVATION= 1016.45')
- INTERIOR BOTTOM OF FOOTING ELEVATION = -2.50' TYP. UNO.
- EXTERIOR BOTTOM OF FOOTING ELEVATION = -2.50' TYP. UNO.
- TP-16 DENOTES APPROXIMATE TEST PIT LOCATION (XX) DENOTES ESTIMATED UNDERCUTS TO SUITABLE SOILS.
- REFERENCE NOTE 2.D AND 2.E ON S1.001 FOR INFORMATION REGARDING BUILDING PAD REQUIREMENTS. SEE GEOTECHNICAL REPORT FOR MORE INFORMATION.
- FS DENOTES FOOTING STEP, SEE 2/S1.201.

TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

REVISIONS  
PERMIT  
06/11/2021

PERMIT SET

06/11/2021

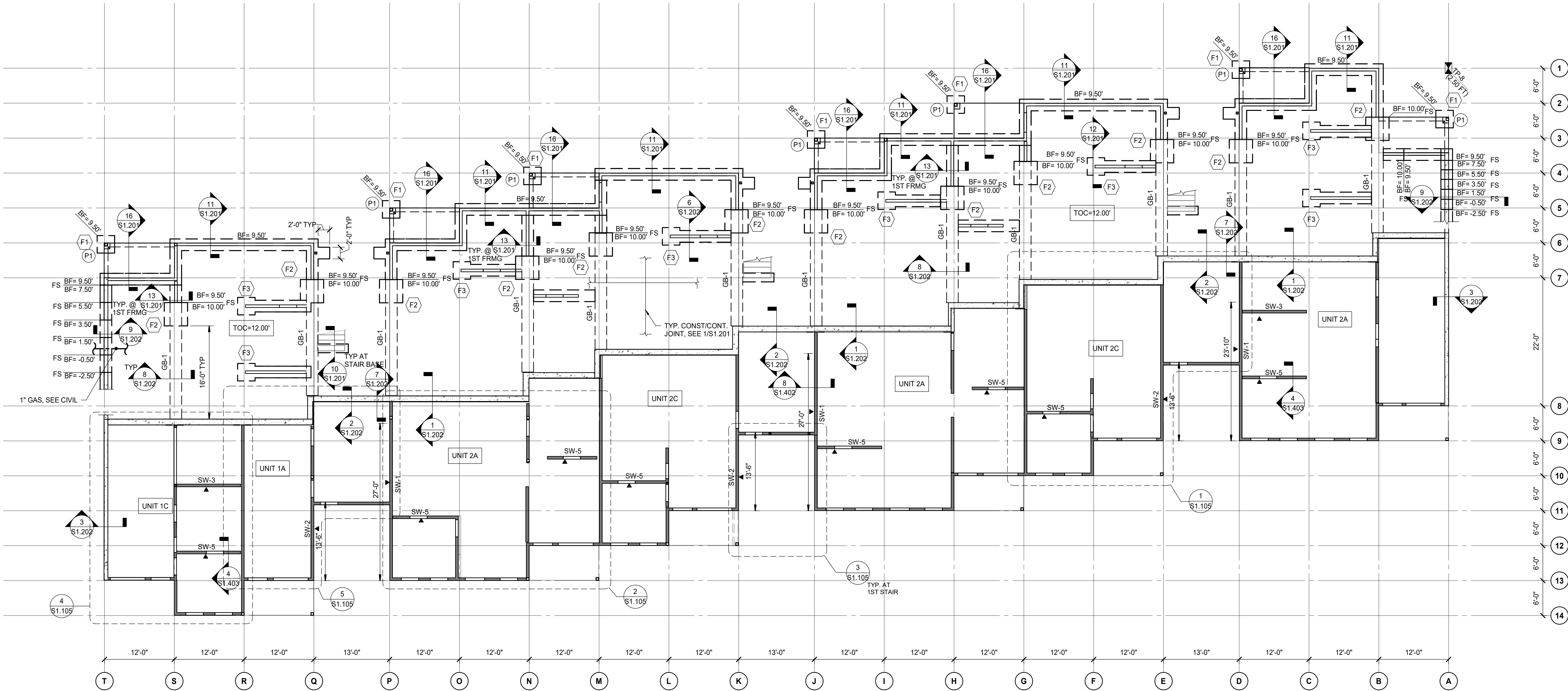
S1.100  
FOUNDATION PLAN  
3  
NORTH

12/08/20

www.3north.com  
804 232 8900







LEVEL 1 FRAMING PLAN

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

NOTES

- FLOOR CONSTRUCTION: 4" CONCRETE SLAB-ON-GRADE REINFORCED WITH ONE LAYER OF 6X6-W14 X W14 WWF IN THE TOP 1/3 OF SLAB. PLACED OVER 10 MIL VAPOR RETARDER ON 4" LAYER OF COMPACTED #57 STONE.
- TOP OF CONCRETE ELEVATION = 12.00' (REFERENCE EL = 1028.45')
- INTERIOR BOTTOM OF FOOTING ELEVATION VARIES, SEE PLAN.
- EXTERIOR BOTTOM OF FOOTING ELEVATION VARIES, SEE PLAN.
- TOP OF SHEATHING ELEVATION = 11.93'
- FS DENOTES FOOTING STEP, SEE 2/S1.201.
- TP-X DENOTES APPROXIMATE TEST PIT LOCATION. (XX) DENOTES ESTIMATED UNDERCUTS TO SUITABLE SOILS.
- SEE UNIT FRAMING PLANS FOR ELEVATED FLOOR CONSTRUCTION NOTES.
- GB-1 DENOTES 24"W x 24"D GRADE BEAM W/ 3-#6 CONTINUOUS TOP BARS, 4-#8 CONTINUOUS BOTTOM BARS, AND #3 STIRRUPS @ 10" OC.
- REFERENCE NOTE 2.D AND 2.E ON S1.001 FOR INFORMATION REGARDING BUILDING PAD REQUIREMENTS. SEE GEOTECHNICAL REPORT FOR MORE INFORMATION.
- SW-X DENOTES SHEAR WALL. ► DENOTES SIDE OF WALL TO BE SHEATHED. S1.403 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS. — XX-XX — DENOTES SHEAR WALL EXTENTS.

TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

06/11/2021

REVISIONS

PERMIT

PERMIT SET

S1.101  
LEVEL 1 FRAMING PLAN

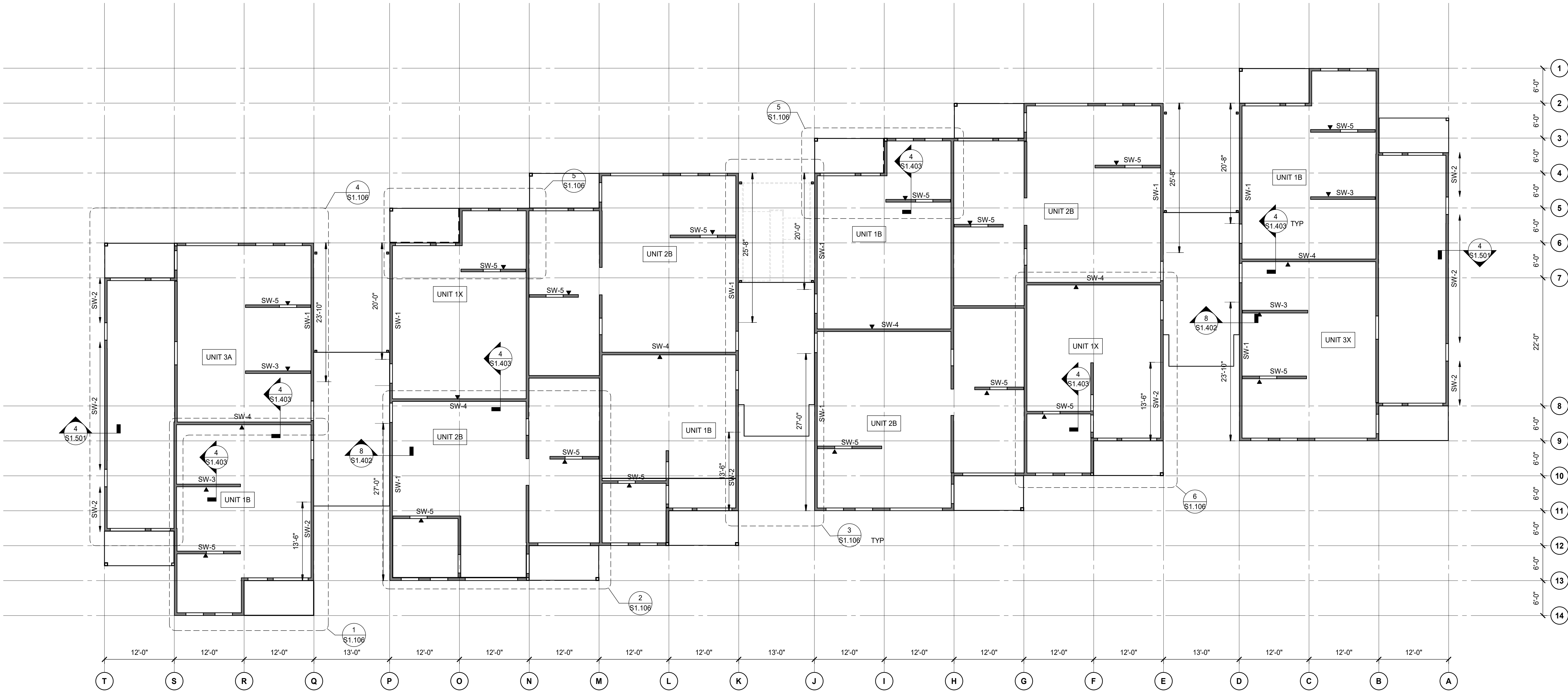


©2020

www.3north.com  
804 232 8900





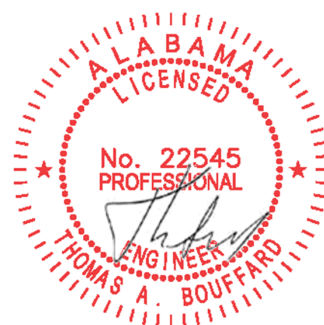


LEVEL 2 FRAMING PLAN

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

NOTES

- SEE UNIT FRAMING PLANS FOR ELEVATED FLOOR CONSTRUCTION NOTES.
- 2ND FLOOR TOP OF SHEATHING = 22.67'.
- SW-X DENOTES SHEAR WALL. ► DENOTES SIDE OF WALL TO BE SHEATHED.  
S1.403 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS. — XX'-XX' —  
DENOTES SHEAR WALL EXTENTS



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

**S1.102**  
LEVEL 2 FRAMING PLAN



©2020

www.3north.com  
804 232 8900

REVISIONS

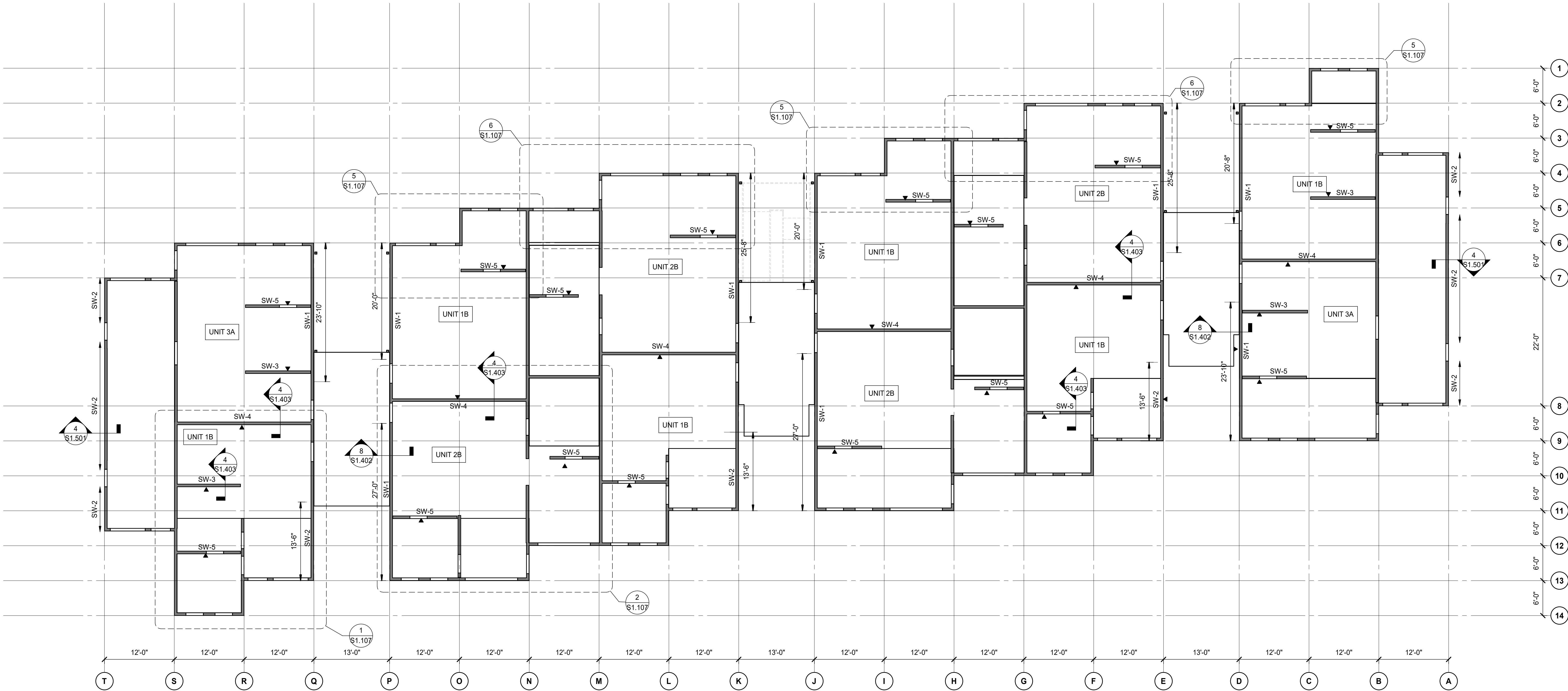
PERMIT 06/11/2021

PERMIT SET

06/11/2021

12/06/20



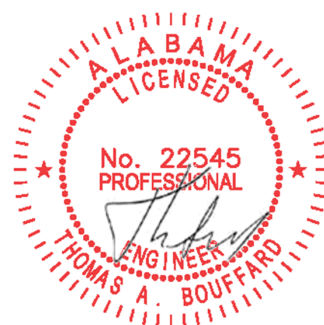


LEVEL 3 FRAMING PLAN

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

NOTES

- SEE UNIT FRAMING PLANS FOR ELEVATED FLOOR CONSTRUCTION NOTES.
- 2ND FLOOR TOP OF SHEATHING = 33.33'.
- SW-X DENOTES SHEAR WALL. ► DENOTES SIDE OF WALL TO BE SHEATHED.  
S1.403 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS. — XX'-XX' —  
DENOTES SHEAR WALL EXTENTS.



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S1.103  
LEVEL 3 FRAMING PLAN

www.3north.com  
804 232 8900

REVISIONS

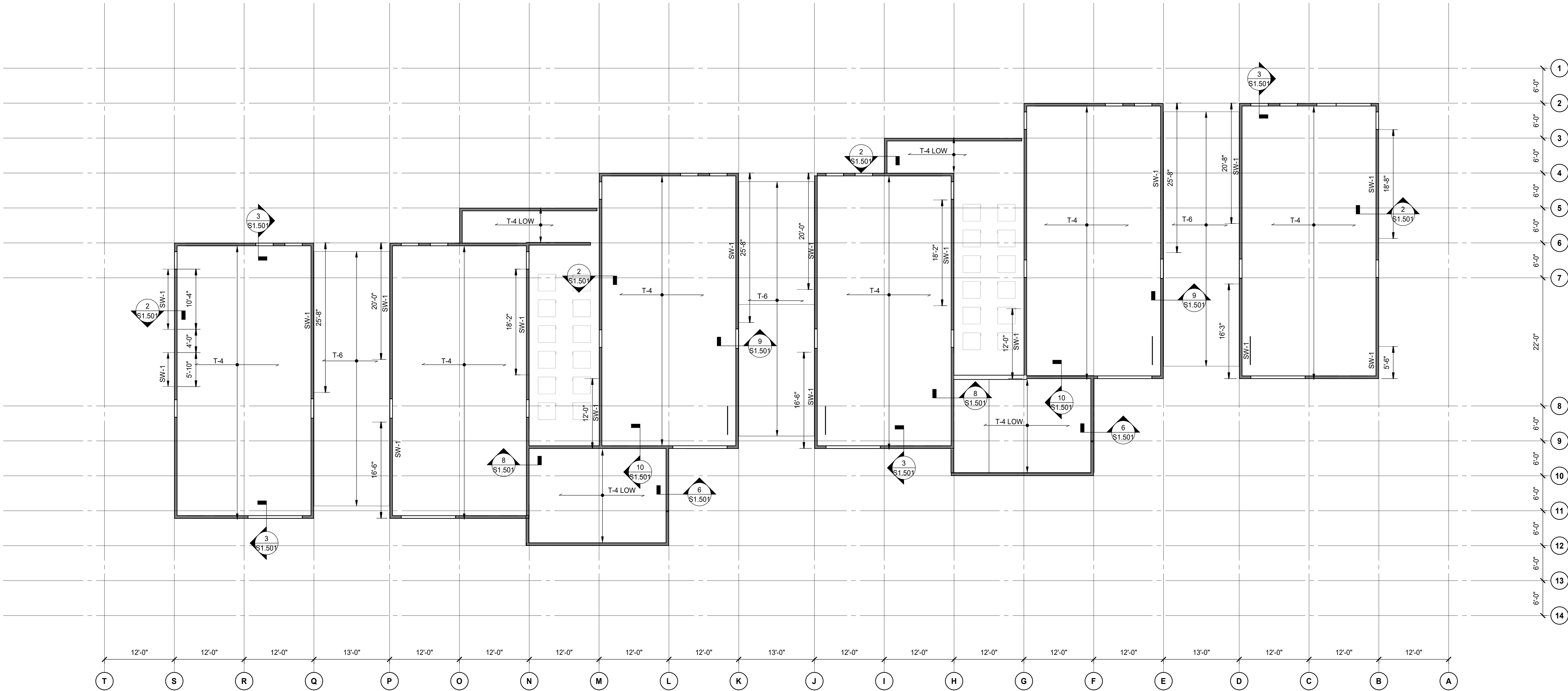
PERMIT

06/11/2021

06/11/2021

PERMIT SET



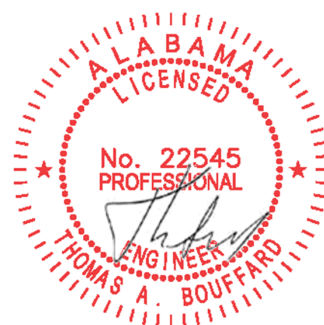


ROOF FRAMING PLAN

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

NOTES

1. ROOF CONSTRUCTION 3/4" STRUCTURAL SHEATHING ON PRE-ENGINEERED ROOF WOOD TRUSSES @ 24" O.C.
2. ROOF TOP OF SHEATHING ELEVATION VARIES, SEE ARCH.
3. TYPICAL SECTIONS SHOWN ARE APPLICABLE TO SIMILAR CONDITIONS EVEN IF MARKS ARE NOT SHOWN.
4. SEE S1.401 FOR TYPICAL HEADERS AND STUDS AT OPENINGS U.N.O.
5. SEE S1.401 FOR COLUMN BEAM & SCHEDULE.
6. TYPICAL CONDITIONS ARE APPLICABLE EVEN IF SECTIONS ARE NOT SHOWN.
3. SW-X DENOTES SHEAR WALL. ► DENOTES SIDE OF WALL TO BE SHEATHED.  
S1.403 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS. — XX'-XX' —  
DENOTES SHEAR WALL EXTENTS.



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S1.104  
ROOF FRAMING PLAN



©2020

www.3north.com  
804 232 8900

REVISIONS

PERMIT

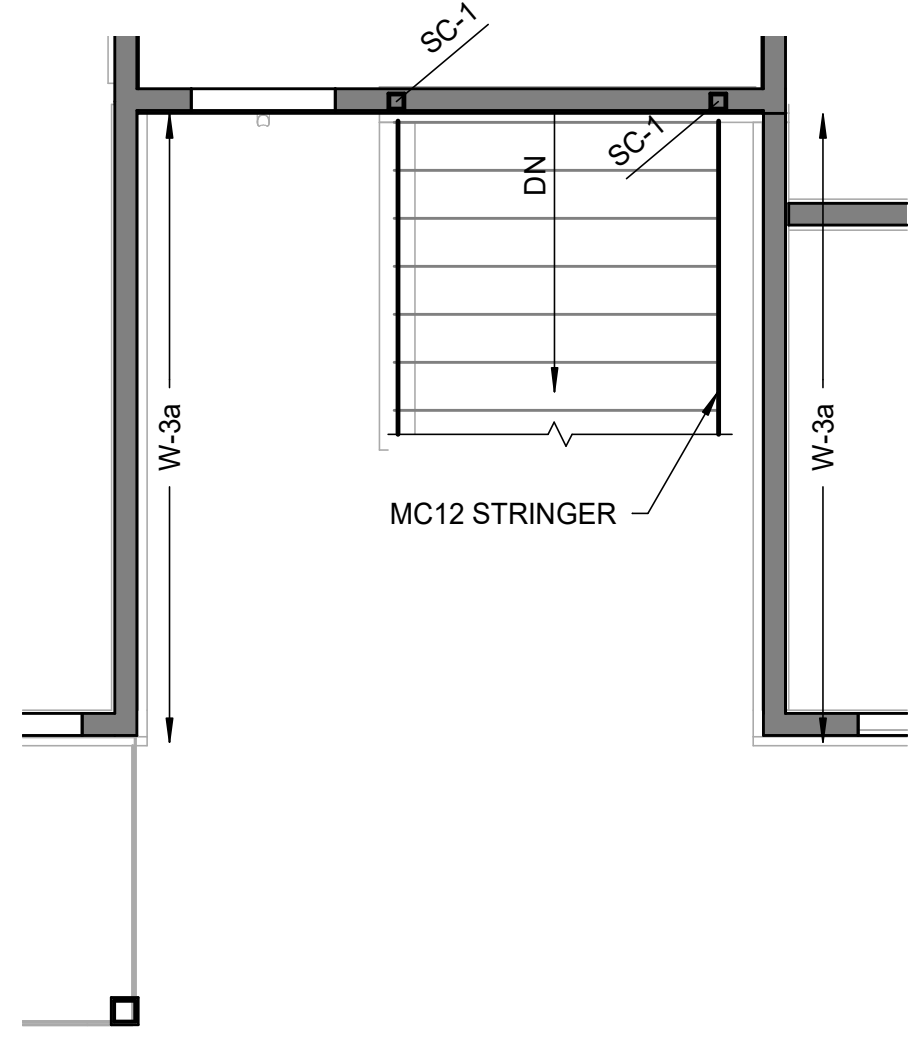
06/11/2021

PERMIT SET

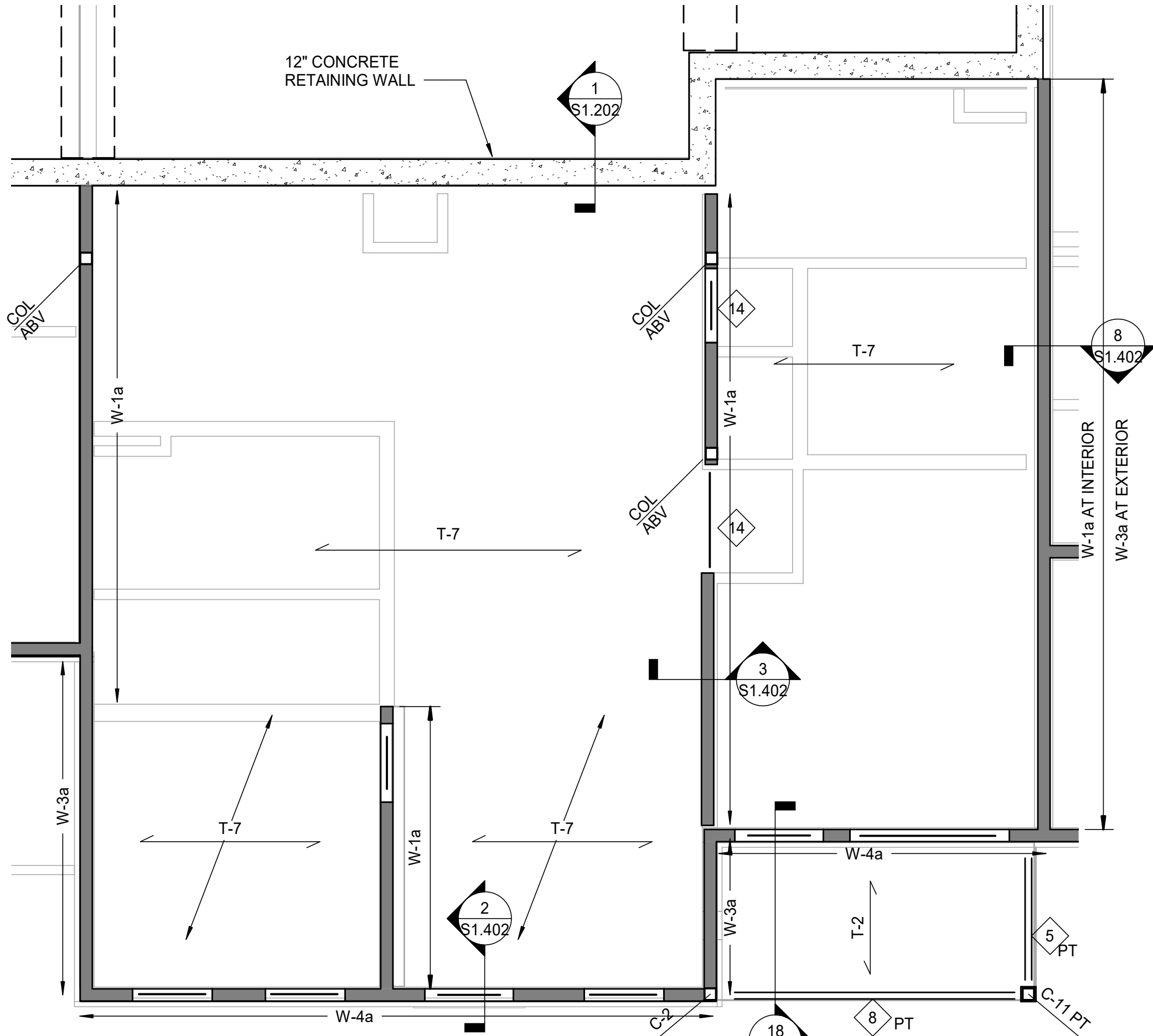
06/11/2021

12/06/20

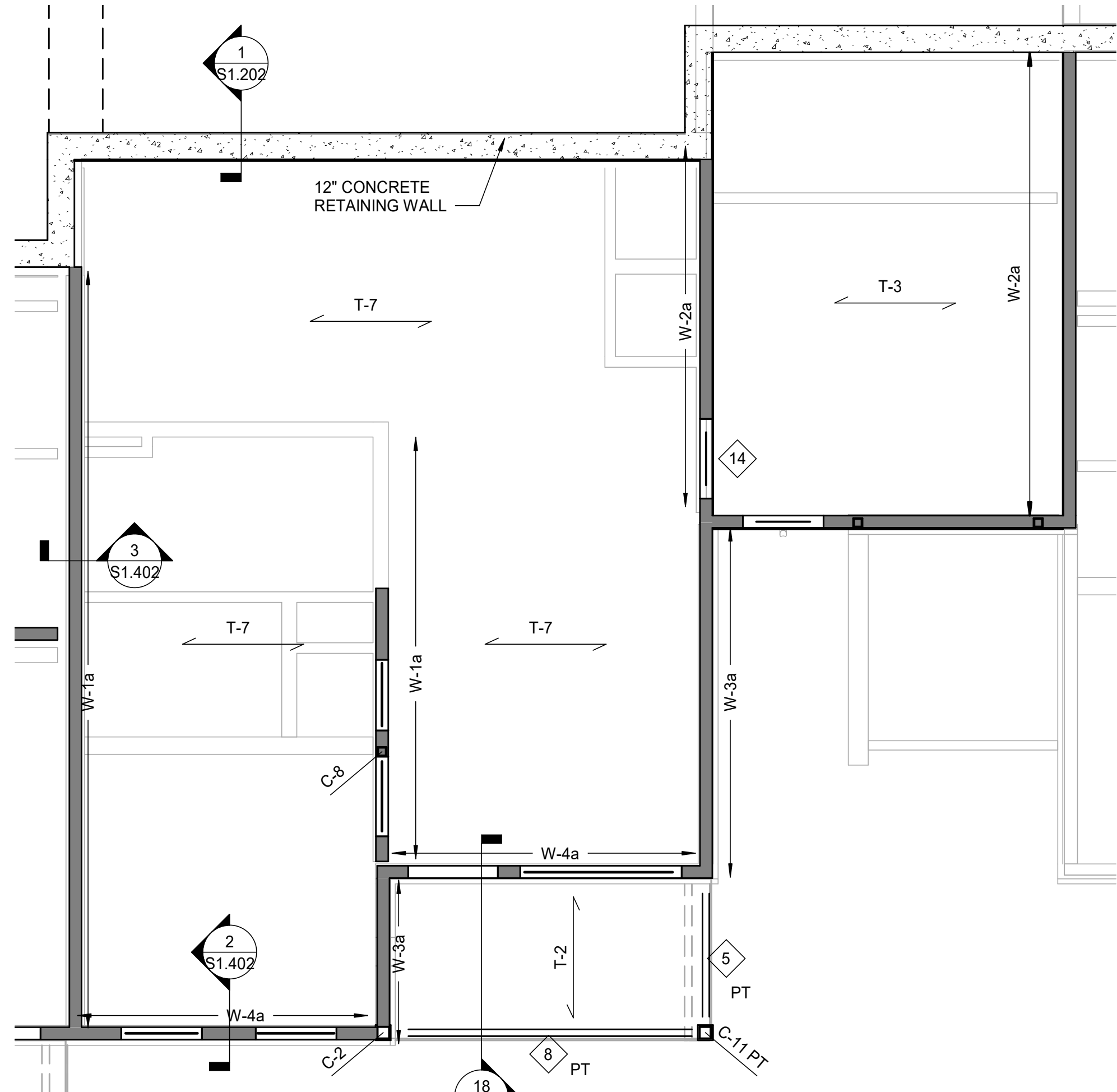




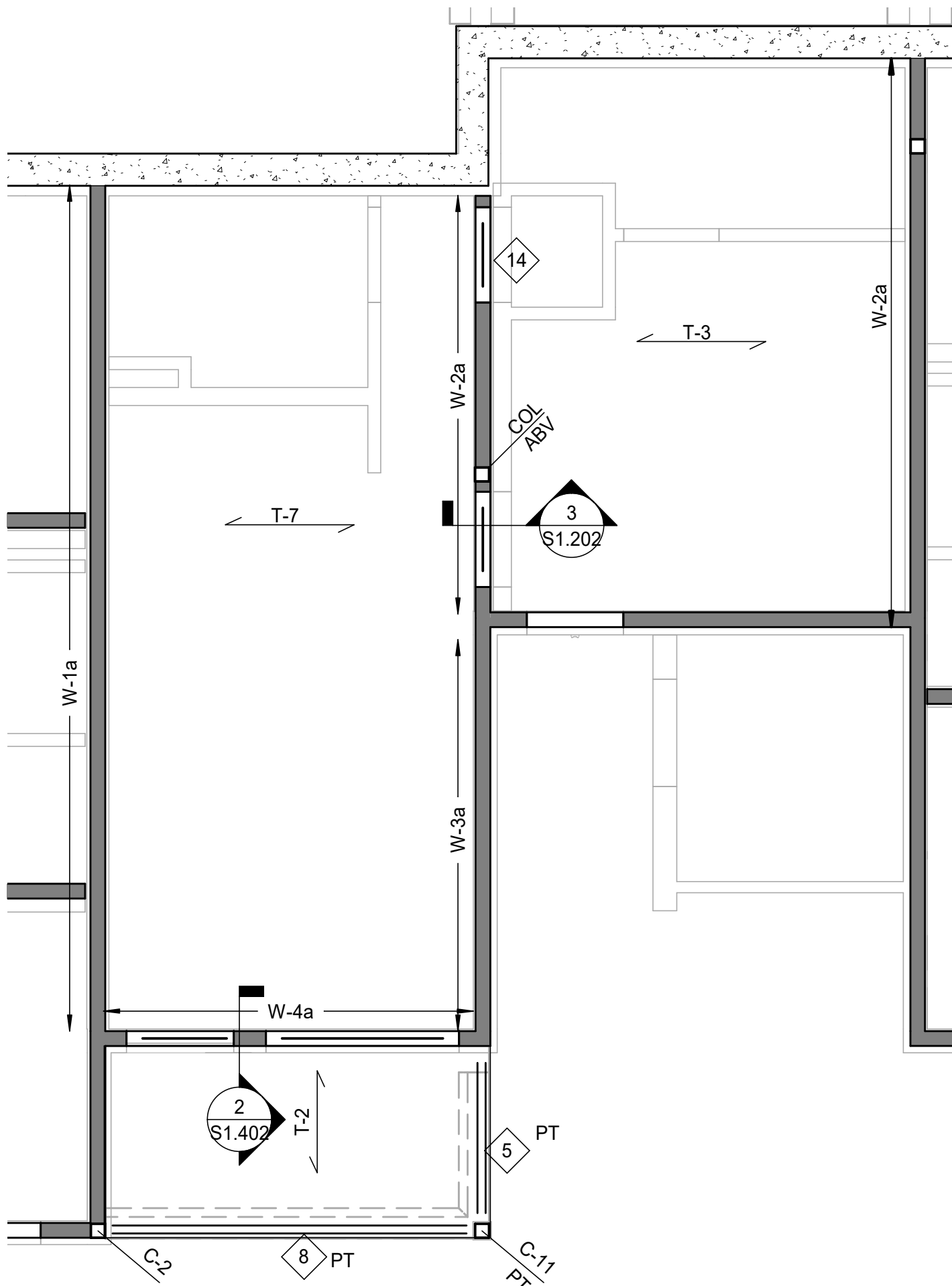
LEVEL 1 STAIR 4  
SCALE: 1/4" = 1'-0"



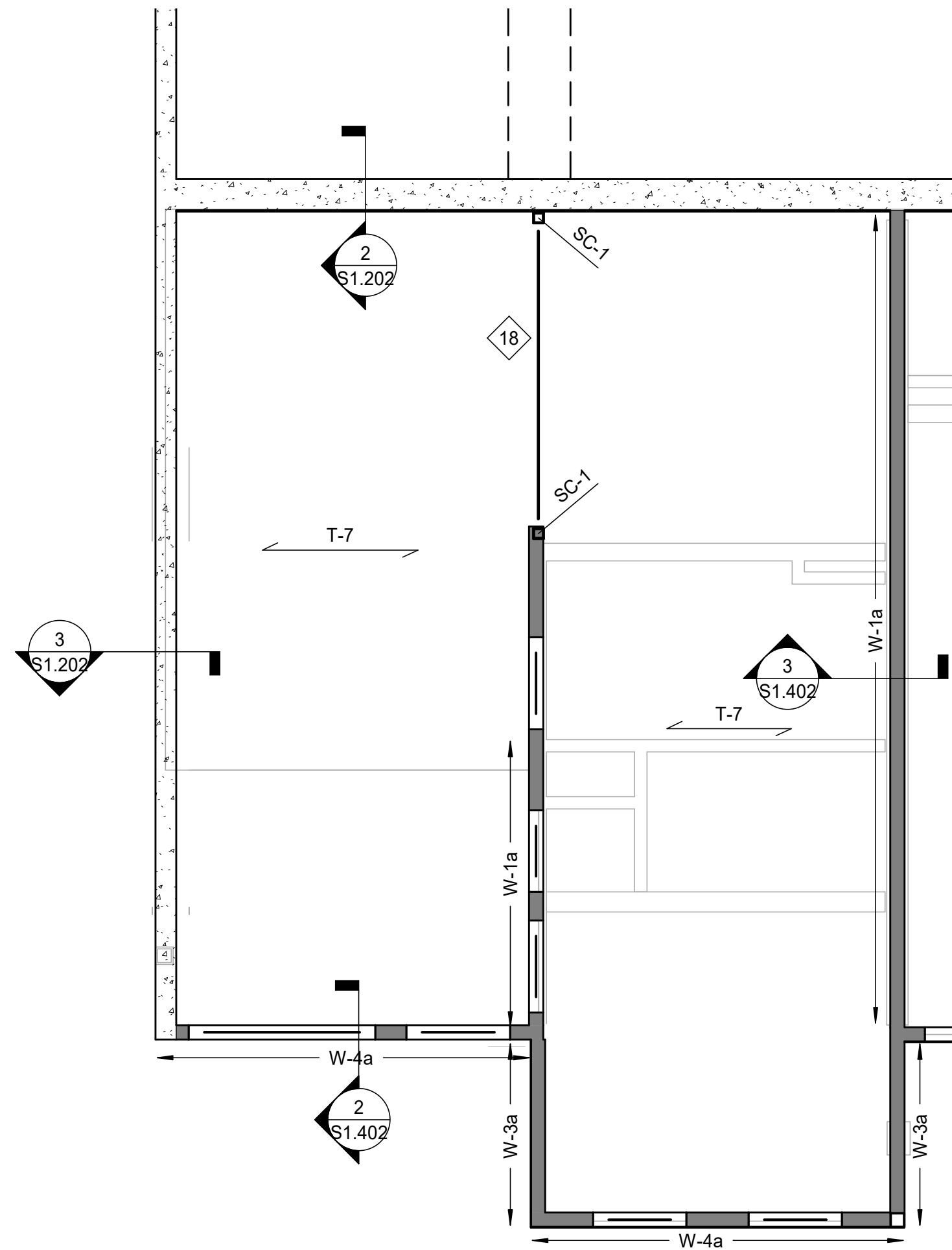
LEVEL 1 UNIT 2A  
SCALE: 1/4" = 1'-0"



LEVEL 1 UNIT 2C  
SCALE: 1/4" = 1'-0"



LEVEL 1 UNIT 1A  
SCALE: 1/4" = 1'-0"



LEVEL 1 UNIT 1C  
SCALE: 1/4" = 1'-0"

LEVEL 1 UNIT FRAMING GENERAL NOTES:

- NOTES:
1. TYPICAL FLOOR CONSTRUCTION SHALL BE AS FOLLOWS: UP TO 1" THICK GYPCRETE TOPPING OVER 23/32" (3/4") APA RATED STURDI-FLOOR TONGUE AND GROOVE PANELS GLUED AND SCREWED TO 22" TRUSSES OVER 2x WOOD BEARING WALLS. SEE S1.401 FOR SCHEDULE AND TRUSS LOADING INFORMATION.
  2. TOP OF SHEATHING = 11.93' @ LEVEL 1.
  3. SEE S1.401 FOR TYPICAL HEADERS, STUDS AT OPENINGS, BEAM AND COLUMN SCHEDULES.
  4. DENOTES BEARING WALL.
  5. SEE LEVEL 1 FRAMING PLAN ON S1.101 FOR SHEAR WALL LOCATIONS AND NOTES.
  6. TYPICAL CONDITIONS ARE APPLICABLE EVEN IF SECTIONS ARE NOT SHOWN.

TRUSS/JOIST SHOP DRAWING SUBMITTAL SHALL BE COORDINATED WITH AND SHALL SHOW ALL BATHTUB, SHOWER AND TOILET DRAINS AND ALL MECHANICAL SHAFTS. ADJUST JOIST SPACING AND/OR ADD JOISTS AND HEADERS TO CLEAR PLUMBING & MECHANICAL.



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S1.105  
UNIT FRAMING PLANS  
3 NORTH

www.3north.com  
804 232 8900

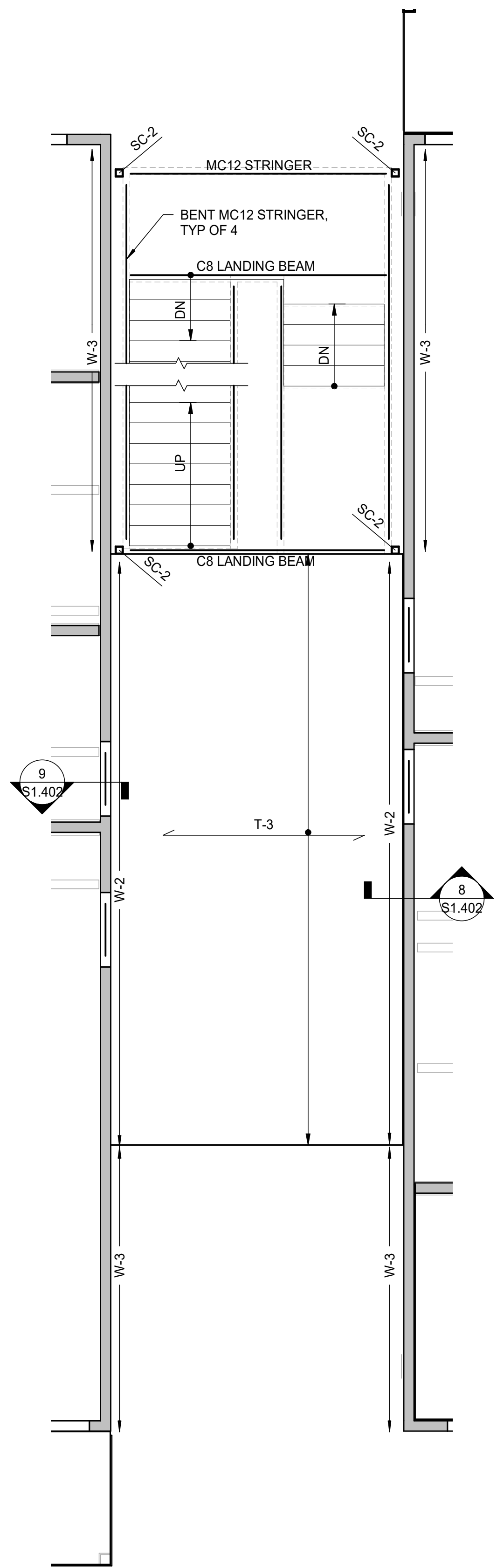
REVISIONS  
PERMIT

PERMIT SET

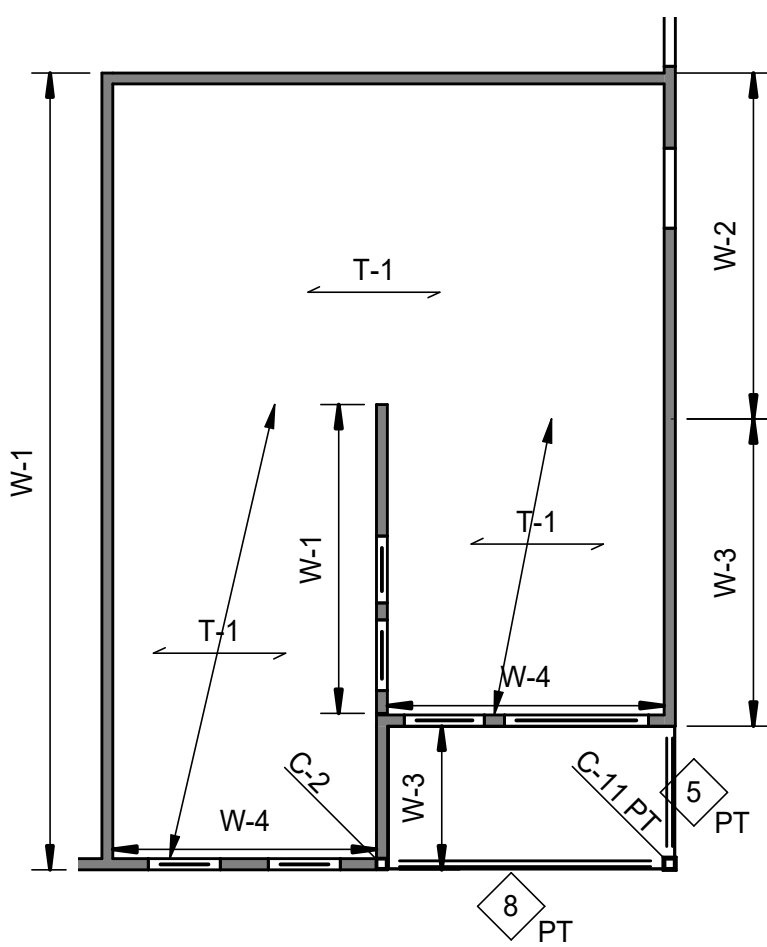
06/11/2021

12/11/20

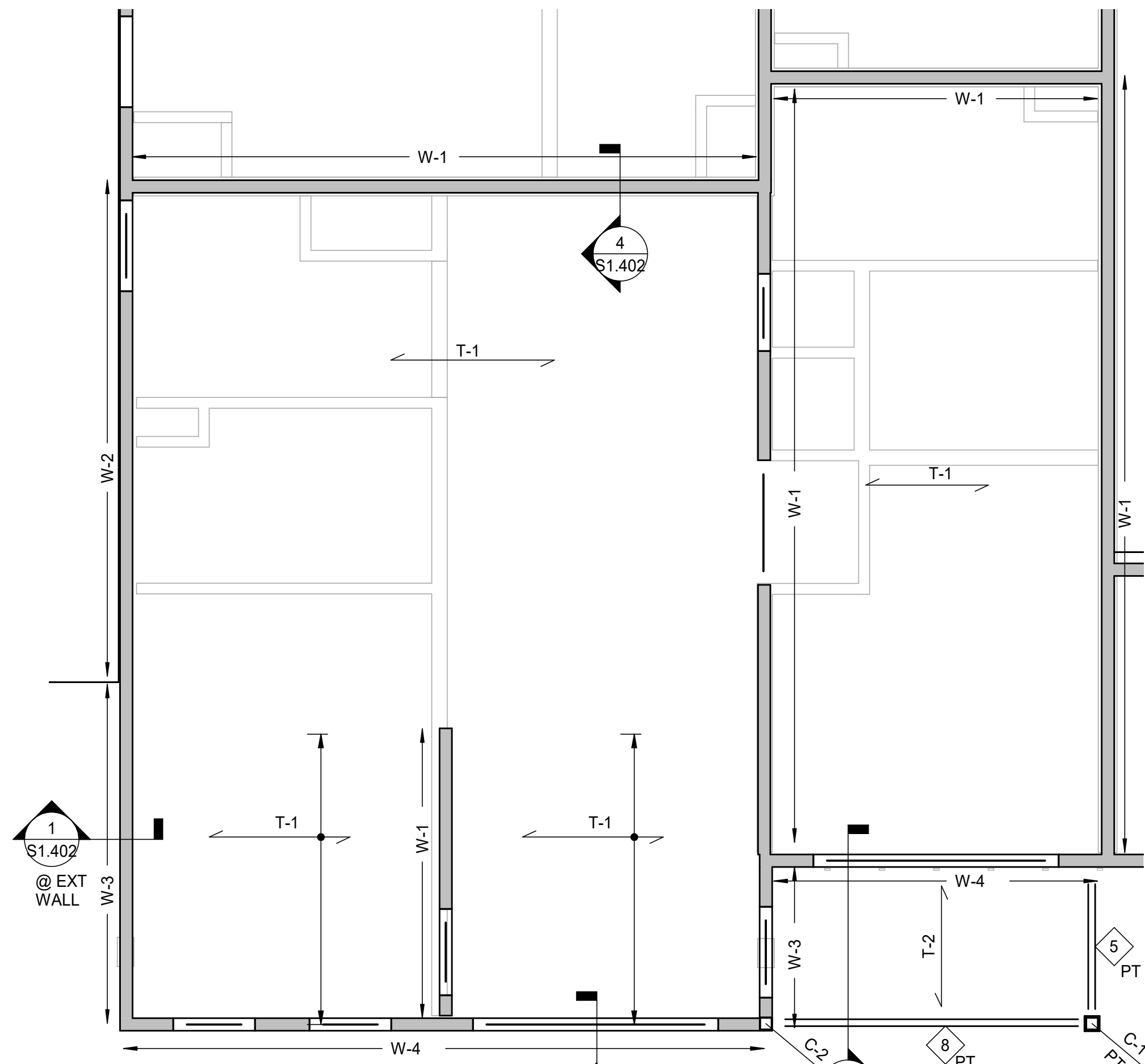




LEVEL 2 1B STAIR 4  
SCALE: 1/4" = 1'-0"




LEVEL 2 UNIT 1X  
SCALE: 1/8" = 1'-0"



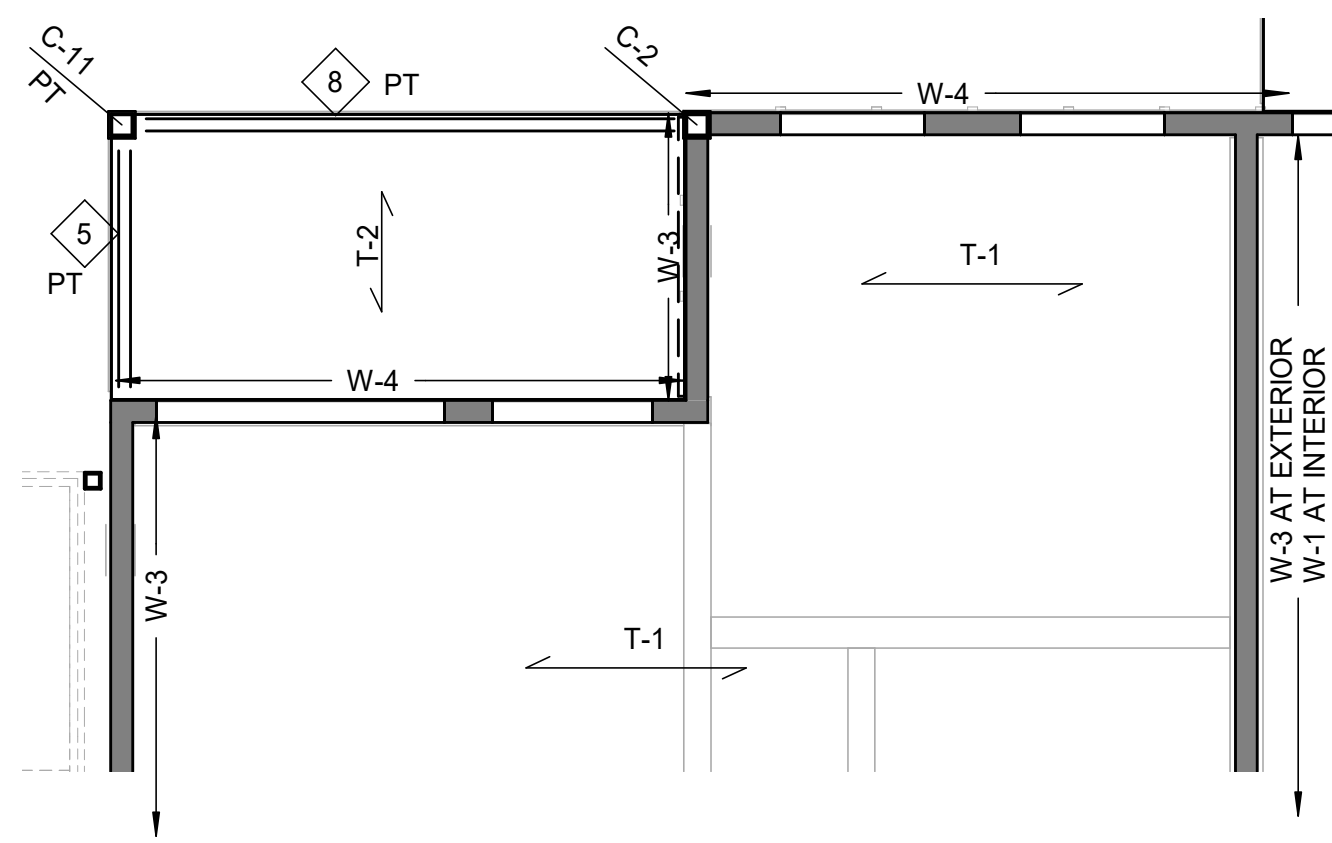
LEVEL 2 UNIT 2B  
SCALE: 1/4" = 1'-0"

### LEVEL 2 UNIT FRAMING GENERAL NOTES:

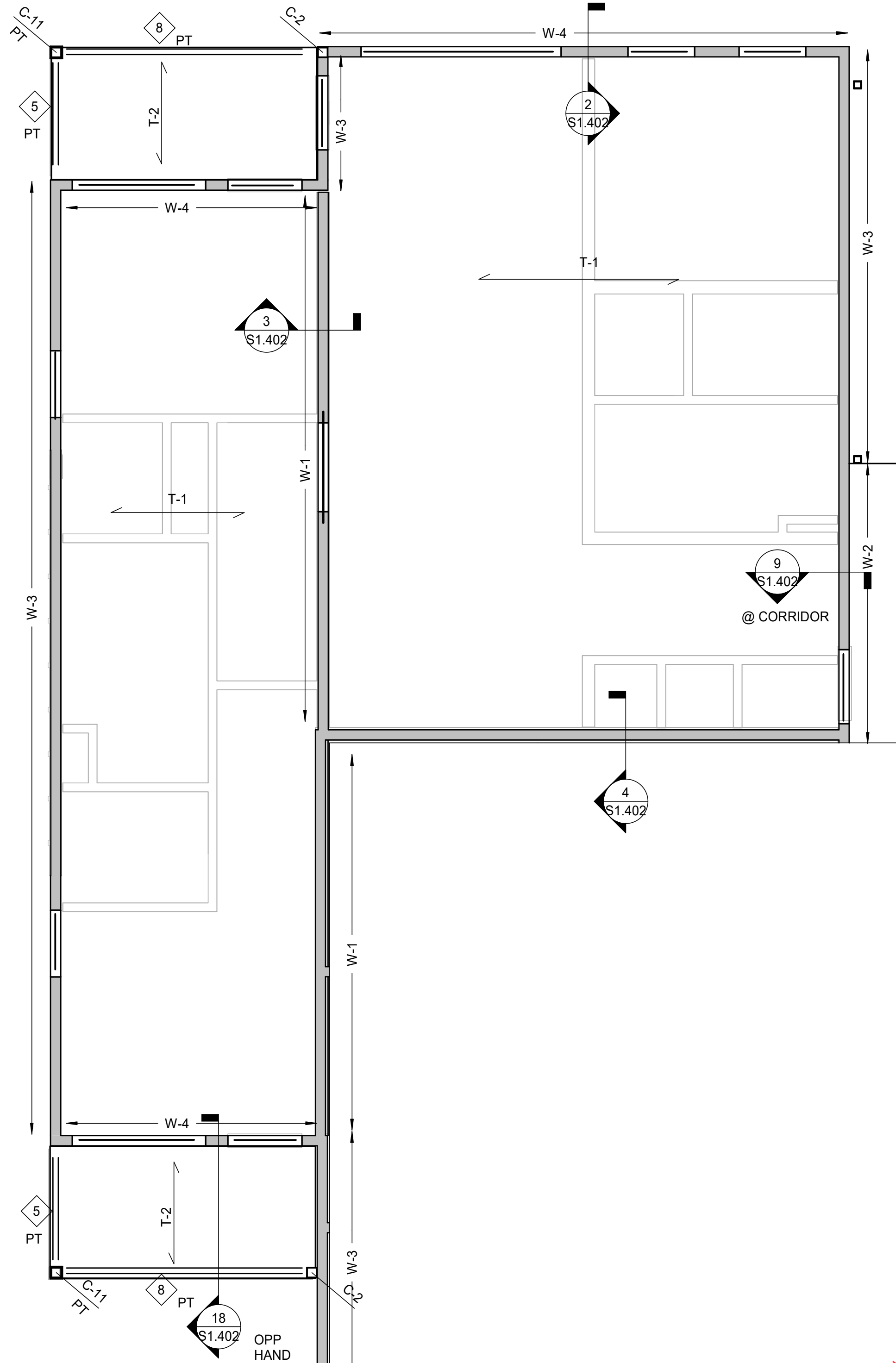
#### NOTES:

1. TYPICAL FLOOR CONSTRUCTION SHALL BE AS FOLLOWS: UP TO 1" THICK GYPCRETE TOPPING OVER 23/32" (3/4") APA RATED STURDI-FLOOR TONGUE AND GROOVE PANELS GLUED AND SCREWED TO 18" TRUSSES OVER 2x WOOD BEARING WALLS. SEE S1.401 FOR SCHEDULE AND TRUSS LOADING INFORMATION.
2. TOP OF SHEATHING = 22.67' @ LEVEL 2.
3. SEE S1.401 FOR TYPICAL HEADERS, STUDS AT OPENINGS, BEAM AND COLUMN SCHEDULES.
4.  DENOTES BEARING WALL.
5. SEE LEVEL 2 FRAMING PLAN ON S1.102 FOR SHEAR WALL LOCATIONS AND NOTES.
6. TYPICAL CONDITIONS ARE APPLICABLE EVEN IF SECTIONS ARE NOT SHOWN.

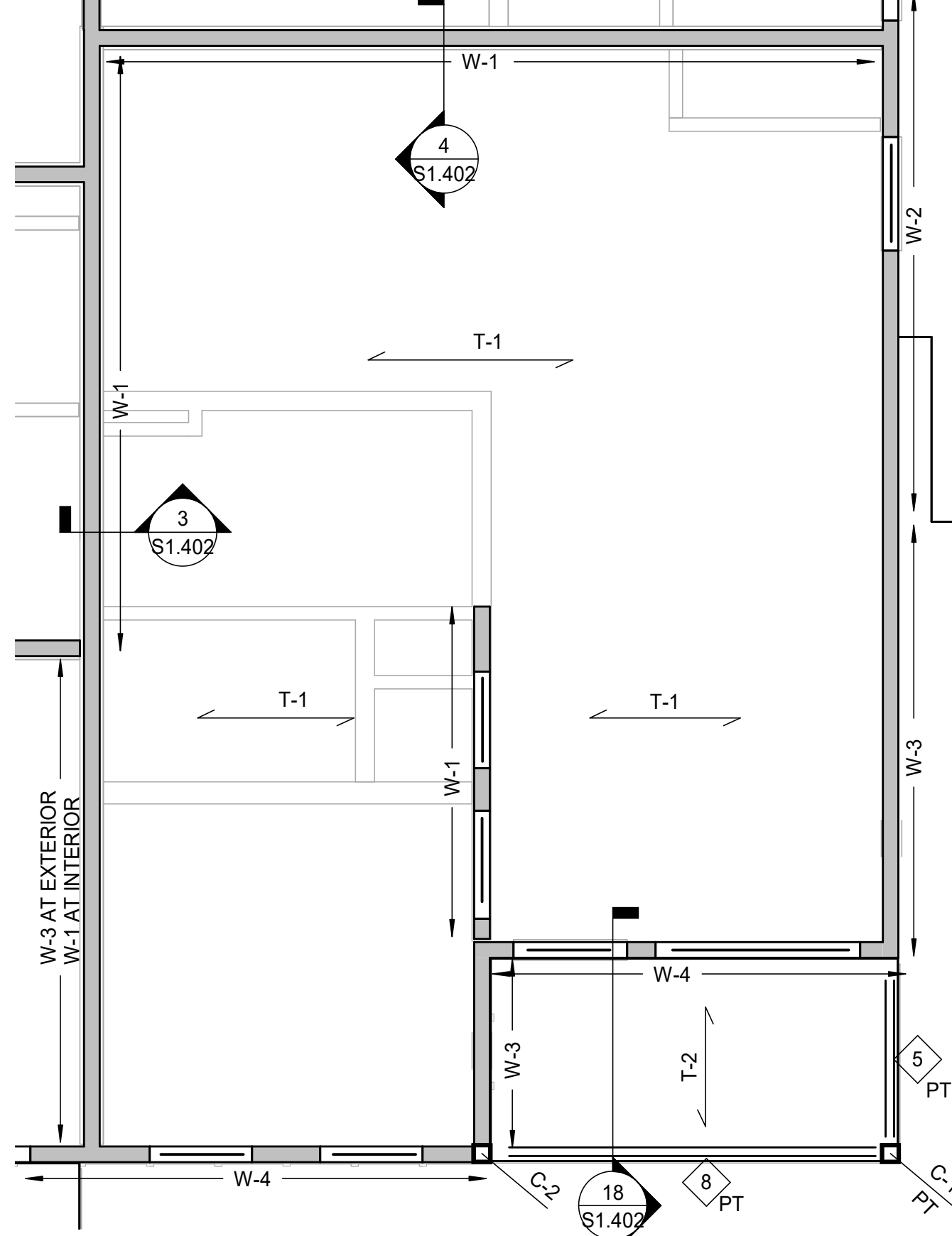
TRUSS/JOIST SHOP DRAWING SUBMITTAL SHALL BE COORDINATED WITH AND SHALL SHOW ALL BATHTUB, SHOWER AND TOILET DRAINS AND ALL MECHANICAL SHAFTS. ADJUST JOIST SPACING AND/OR ADD JOISTS AND HEADERS TO CLEAR PLUMBING & MECHANICAL.



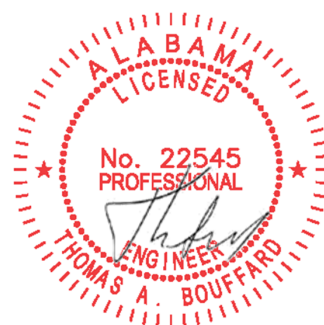
LEVEL 2 UNIT 1B ALTERNATE  
SCALE: 1/4" = 1'-0"



LEVEL 2 UNIT 3A/3X  
SCALE: 1/4" = 1'-0"



LEVEL 2 UNIT 1B  
SCALE: 1/4" = 1'-0"



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

**S1.106**  
UNIT FRAMING PLANS  
3 NORTH  
©2020

www.3north.com  
804 232 8900

REVISIONS

06/11/2021

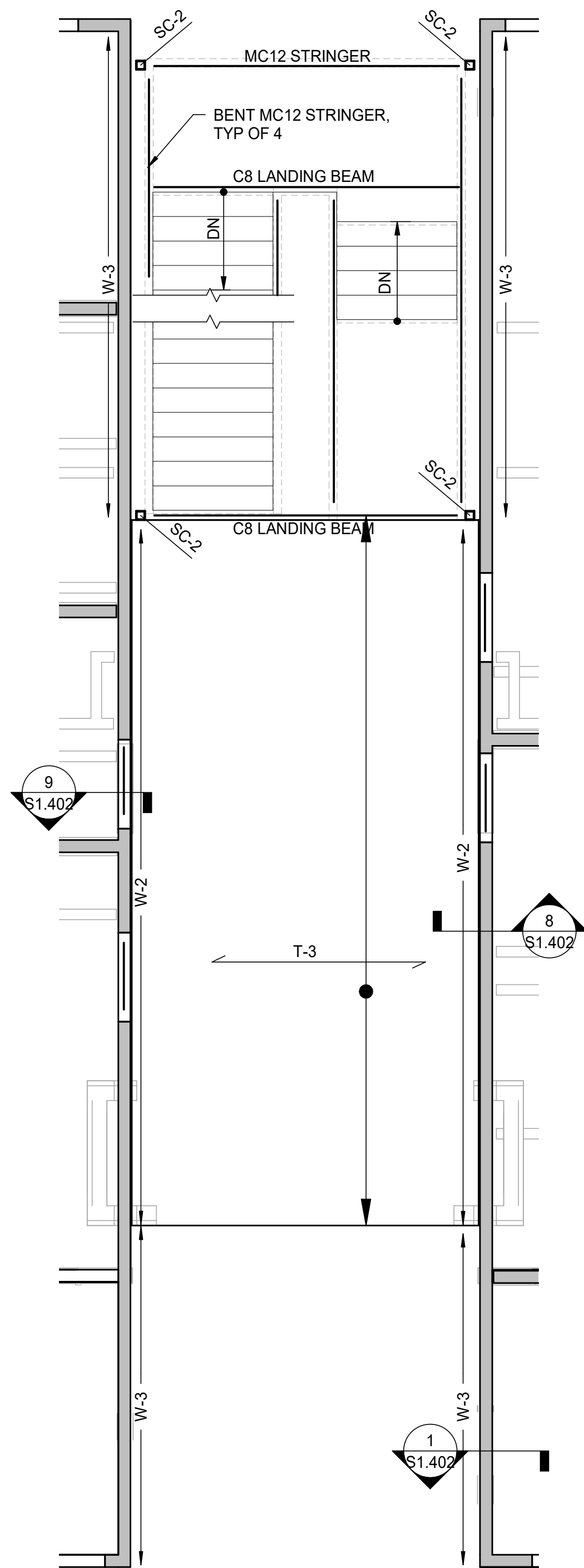
PERMIT

PERMIT SET

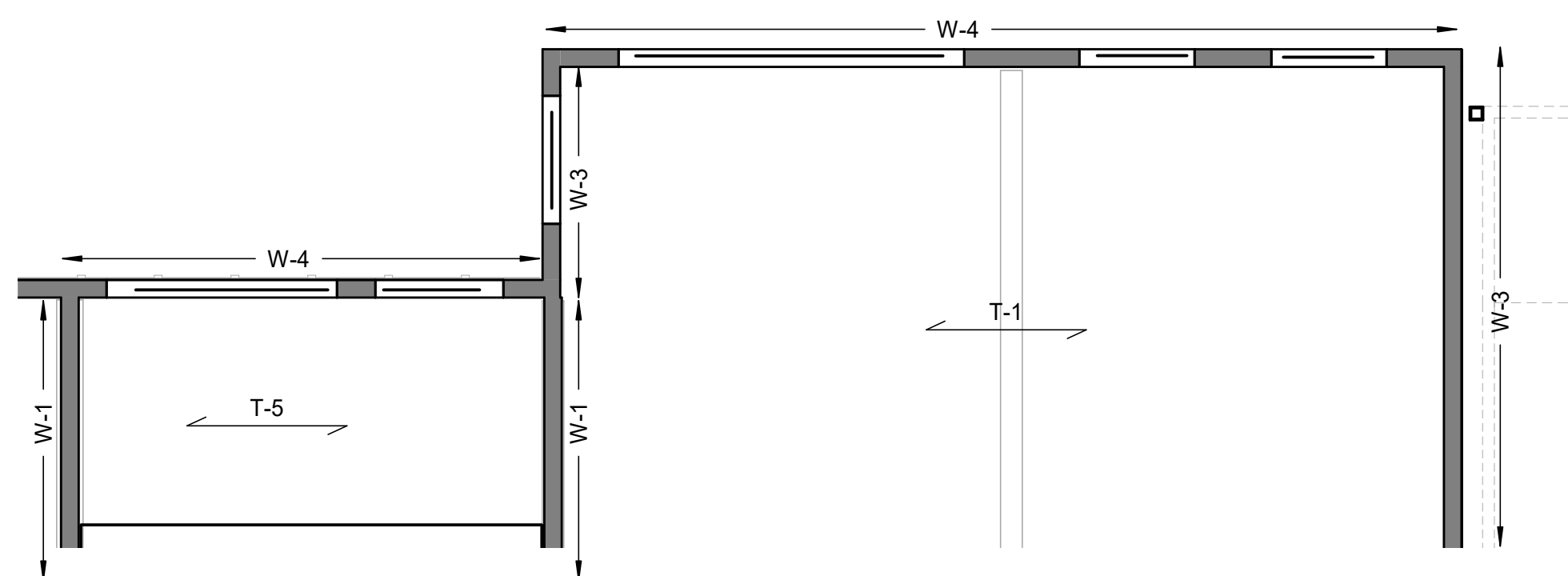
06/11/2021

12/14/20

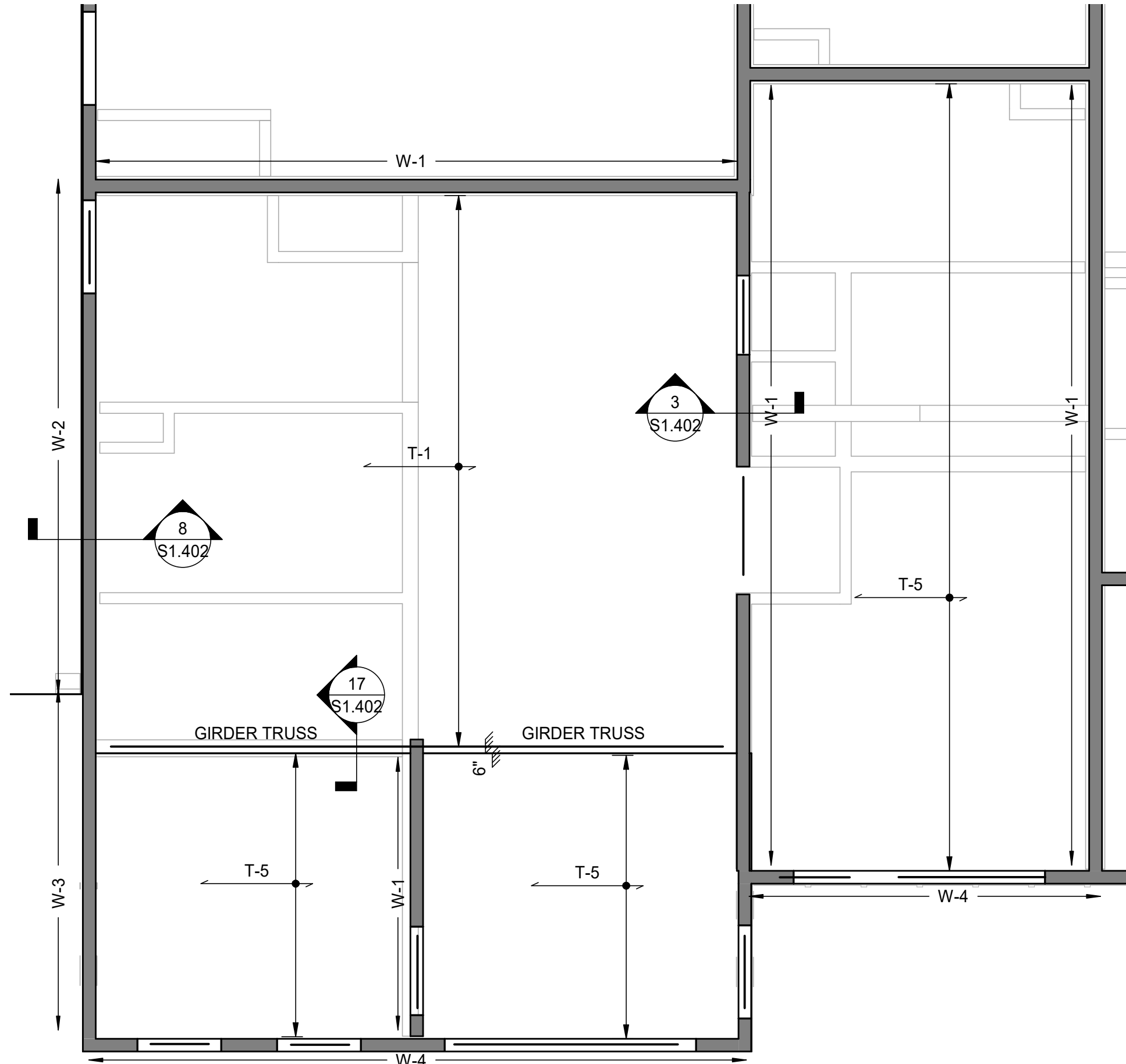




LEVEL 3 STAIR  
SCALE: 1/4" = 1'-0"



LEVEL 3 PARTIAL BALCONY PLAN  
SCALE: 1/4" = 1'-0"

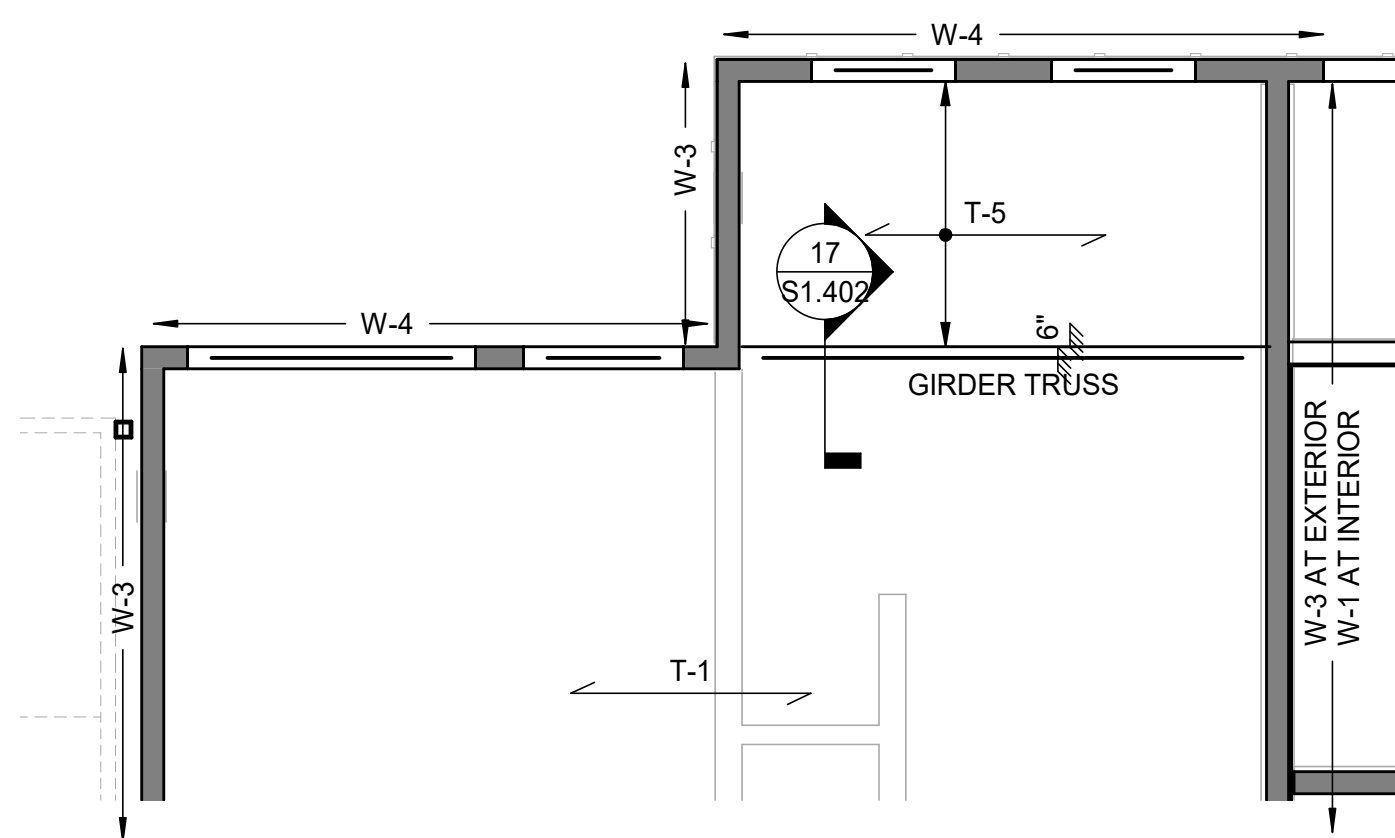


LEVEL 3 UNIT 2B  
SCALE: 1/4" = 1'-0"

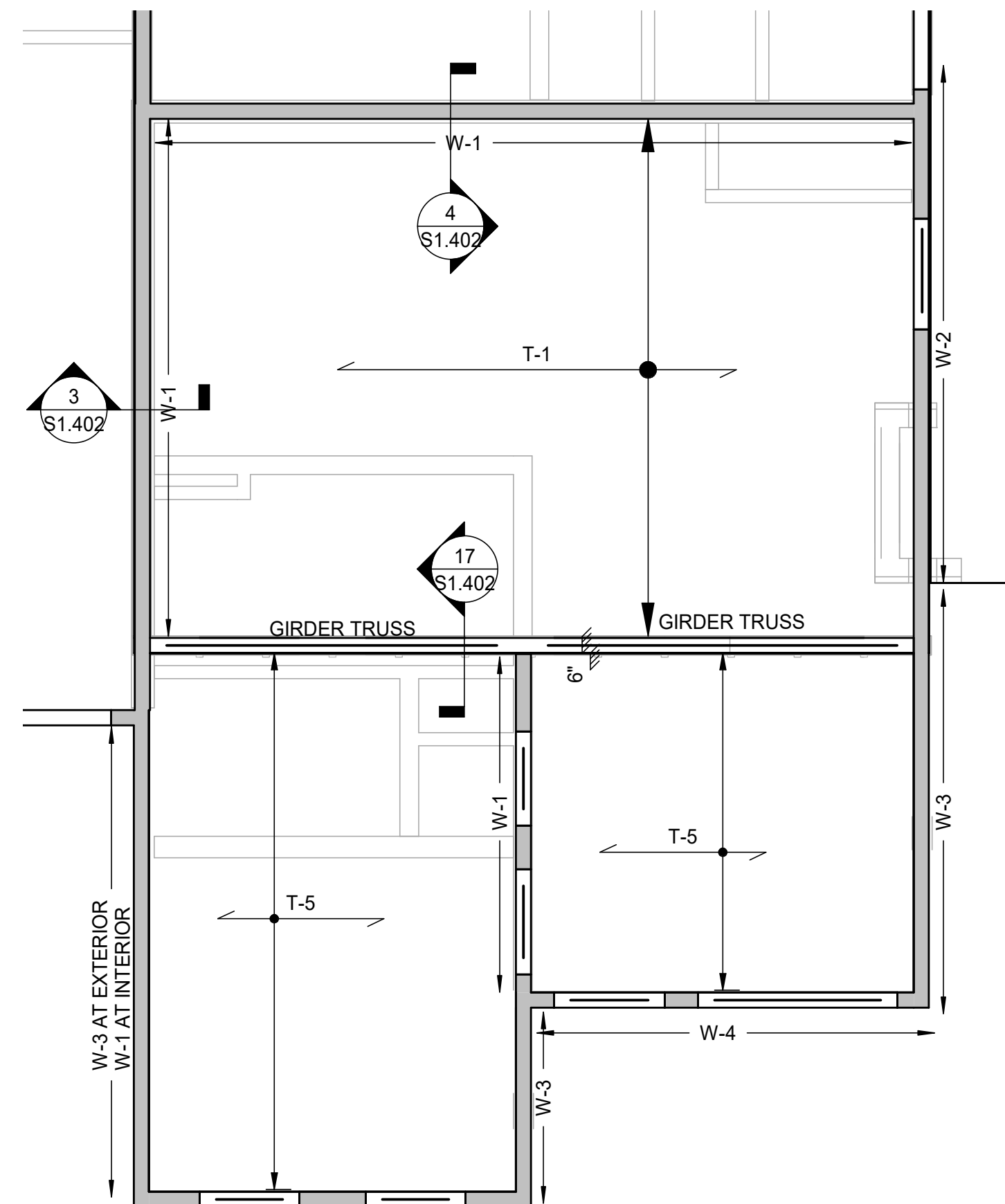
LEVEL 3 UNIT FRAMING GENERAL NOTES:

- NOTES:
1. TYPICAL FLOOR CONSTRUCTION SHALL BE AS FOLLOWS: UP TO 1" THICK GYPCRETE TOPPING OVER 23/32" (3/4") APA RATED STURDI-FLOOR TONGUE AND GROOVE PANELS GLUED AND SCREWED TO 18" TRUSSES OVER 2x WOOD BEARING WALLS. SEE S1.401 FOR SCHEDULE AND TRUSS LOADING INFORMATION.
  2. TOP OF SHEATHING = 33.33' @ LEVEL 3.
  3. SEE S1.401 FOR TYPICAL HEADERS, STUDS AT OPENINGS, BEAM AND COLUMN SCHEDULES.
  4. DENOTES BEARING WALL.
  5. SEE LEVEL 3 FRAMING PLAN ON S1.103 FOR SHEAR WALL LOCATIONS AND NOTES.
  6. TYPICAL CONDITIONS ARE APPLICABLE EVEN IF SECTIONS ARE NOT SHOWN.

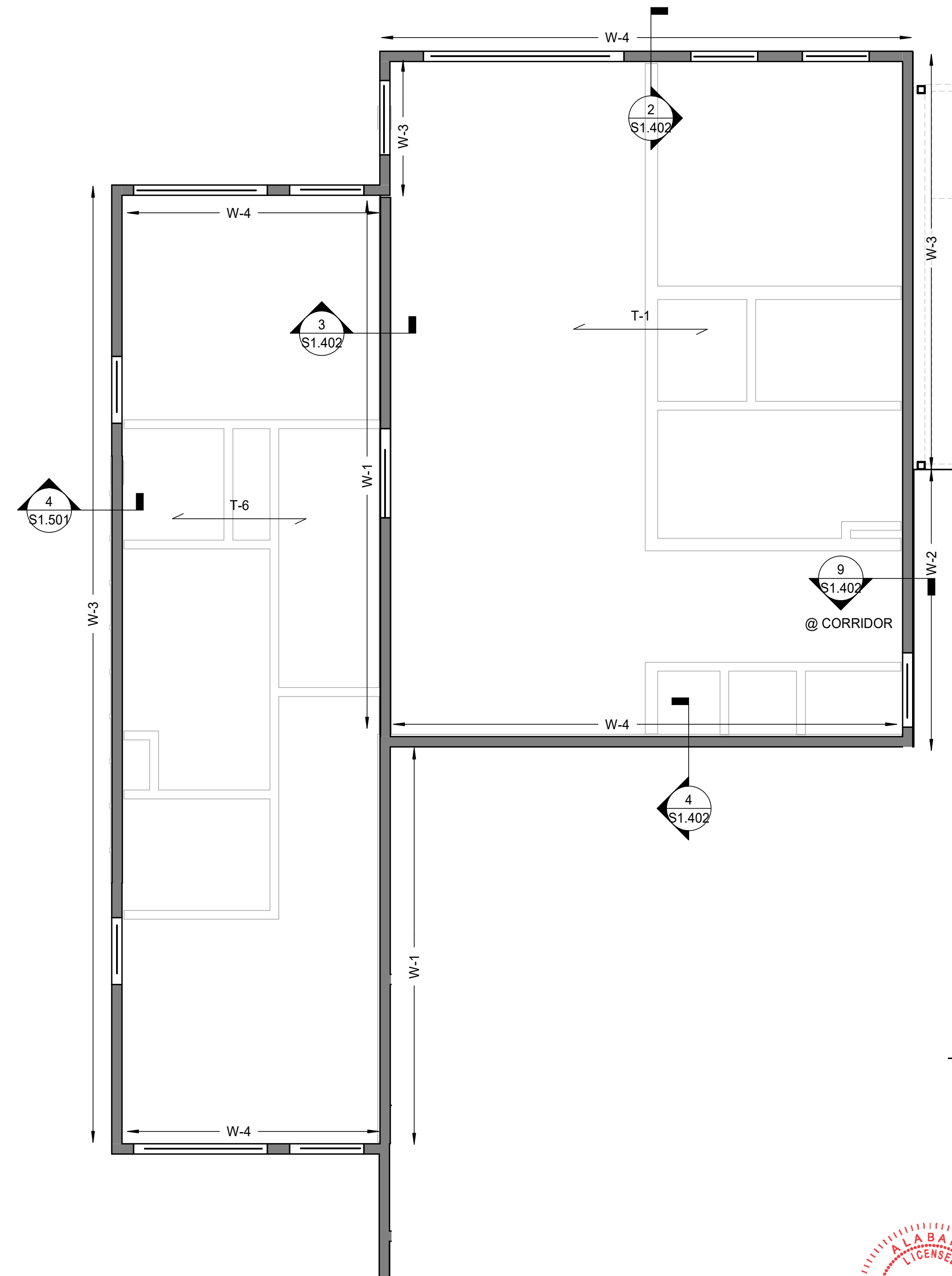
TRUSS/JOIST SHOP DRAWING SUBMITTAL SHALL BE COORDINATED WITH AND SHALL SHOW ALL BATHTUB, SHOWER AND TOILET DRAINS AND ALL MECHANICAL SHAFTS. ADJUST JOIST SPACING AND/OR ADD JOISTS AND HEADERS TO CLEAR PLUMBING & MECHANICAL.



LEVEL 3 PARTIAL BALCONY PLAN  
SCALE: 1/4" = 1'-0"



LEVEL 3 UNIT 1B  
SCALE: 1/4" = 1'-0"



LEVEL 3 UNIT 3A  
SCALE: 1/4" = 1'-0"



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S1.107  
UNIT FRAMING PLANS  
3 NORTH  
©2020

www.3north.com  
804 232 8900

REVISIONS  
PERMIT

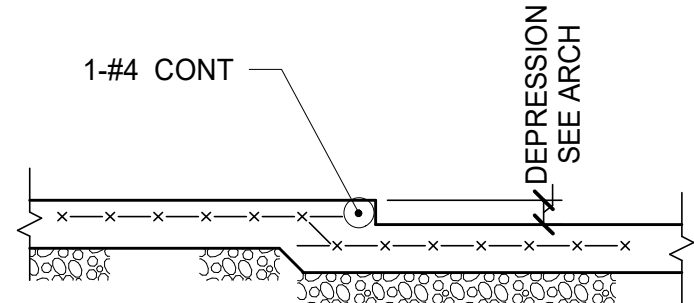
PERMIT SET

06/11/2021

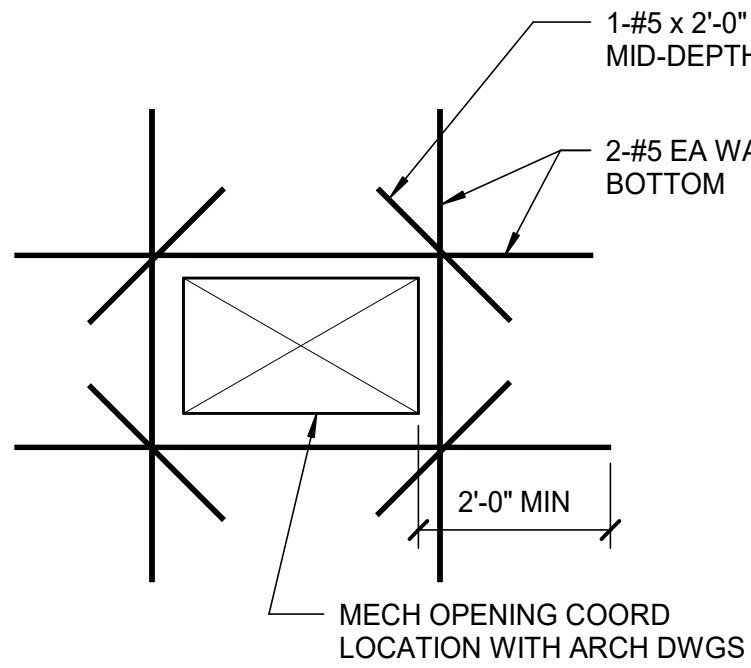
12/14/20

06/11/2021

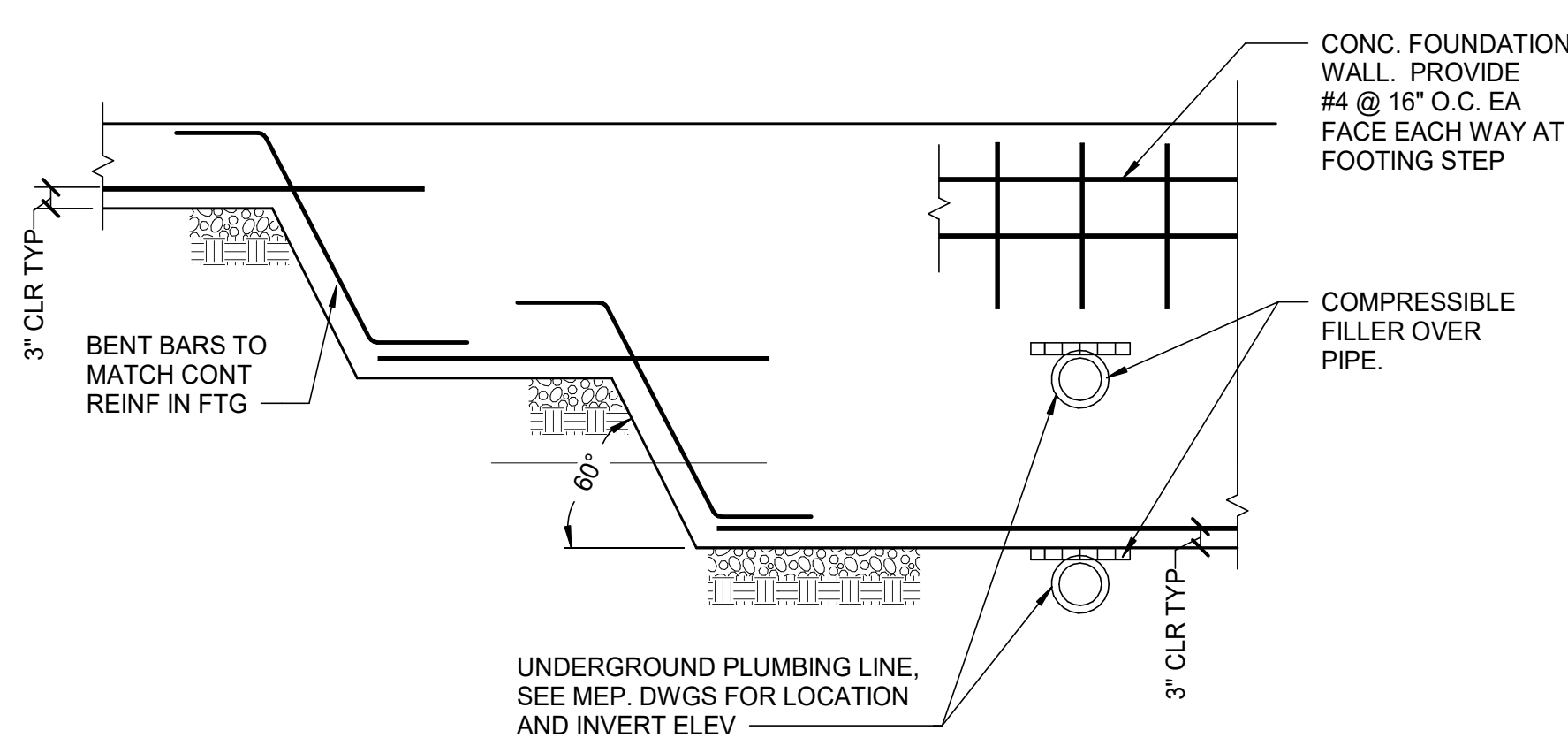




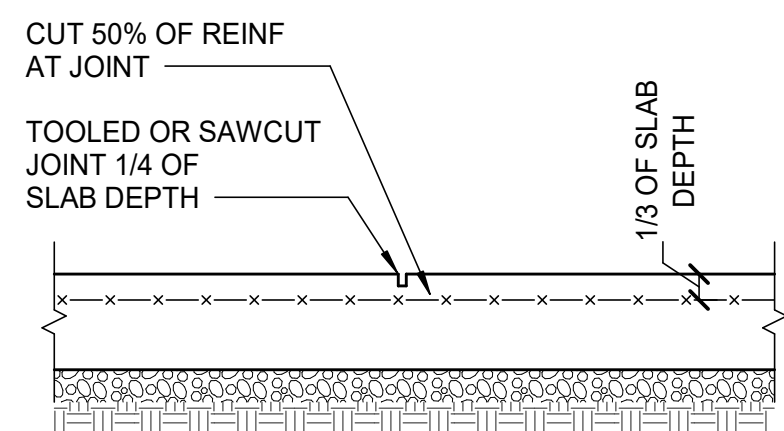
TYPICAL FLOOR DEPRESSION



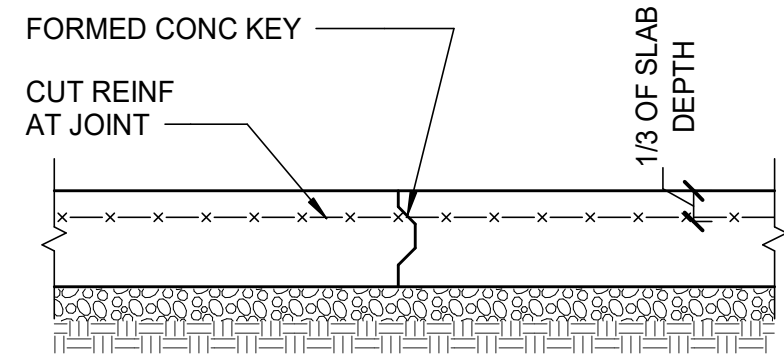
TYPICAL OPENING REINFORCEMENT @ SLAB ON GRADE BLOCK-OUTS



TYPICAL FOOTING STEP (F.S.)



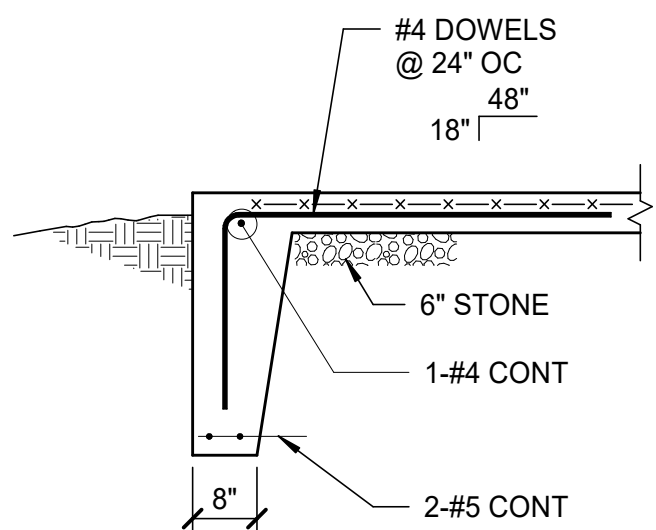
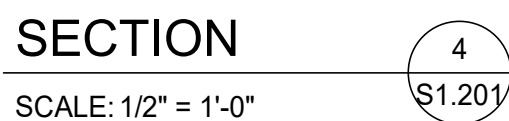
TYPICAL SLAB CONTROL JOINT



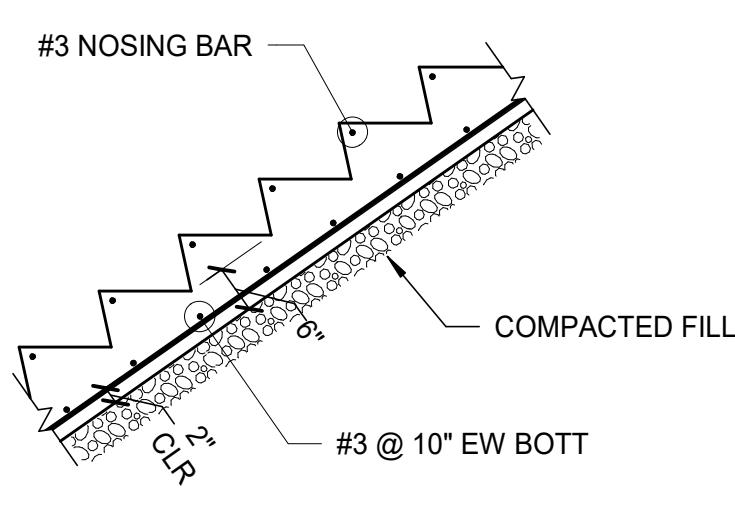
TYPICAL SLAB CONSTRUCTION JOINT

FOOTING SCHEDULE			
MARK	SIZE	REINFORCING	REMARKS
F1	3'-0"x3'-0"x12"	3-#4 BOTT. EW	
F2	4'-0"x4'-0"x12"	4-#4 BOTT. EW	
F3	3'-0"x3'-0"x24"	3-#4 BOTT. EW	

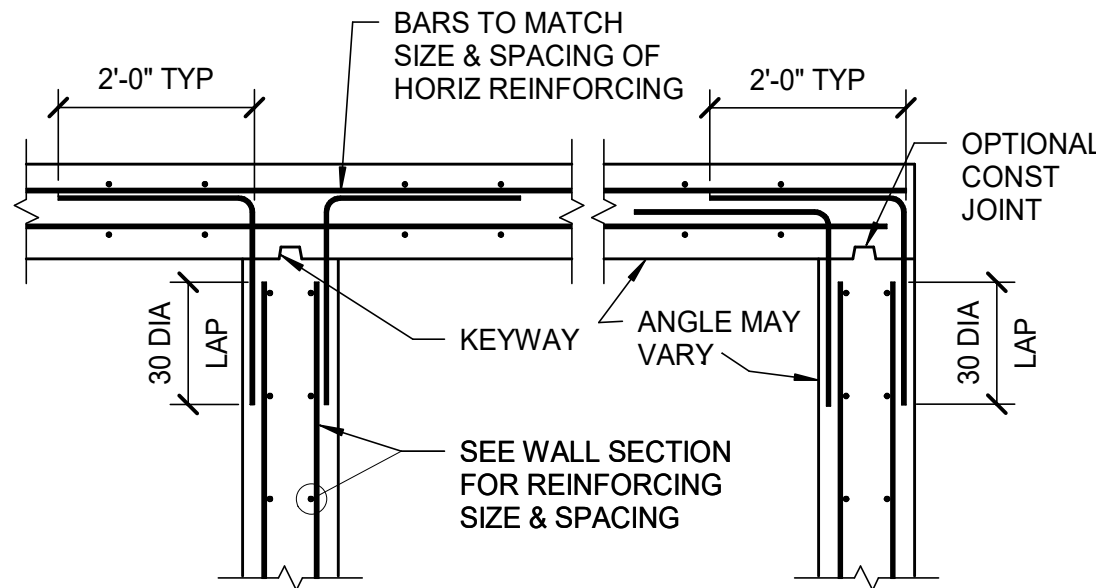
PIER SCHEDULE				
MARK	SIZE	REINFORCING		REMARKS
		VERTICAL	TIES	
P1	12"x12"	4-#5 VERT.	#3 @ 6" O.C.	CONC. PIER



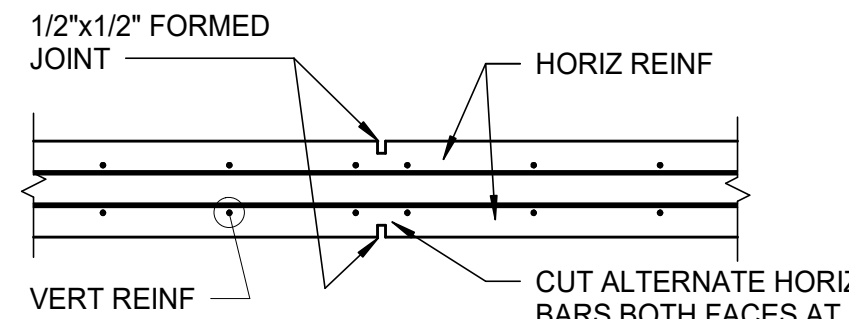
TURN DOWN SLAB EDGE



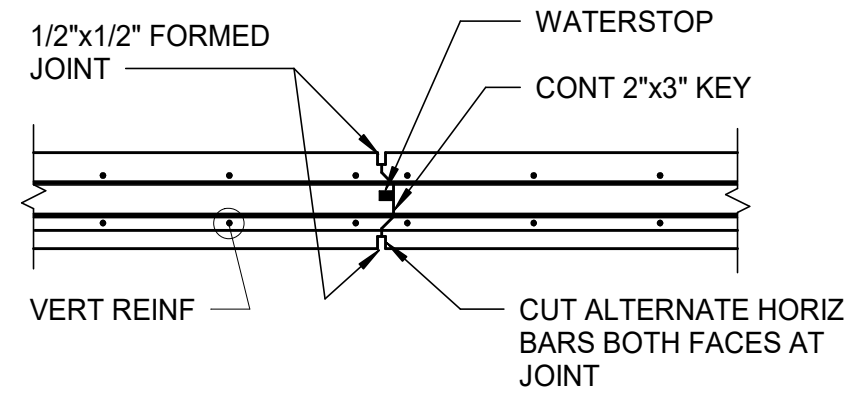
TYPICAL CONCRETE STAIRS



TYPICAL REINFORCING AT WALL INTERSECTIONS

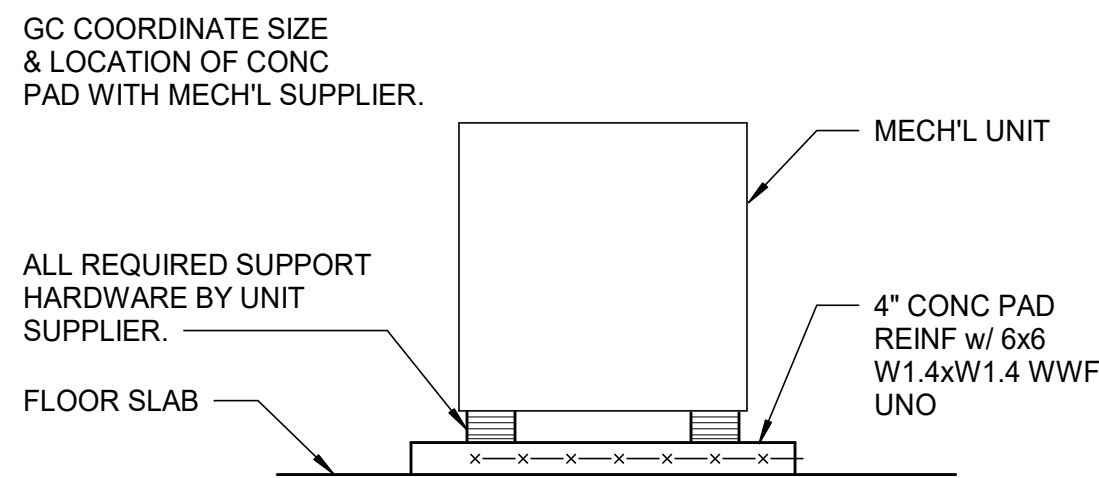


TYPICAL WALL CONTROL JOINT

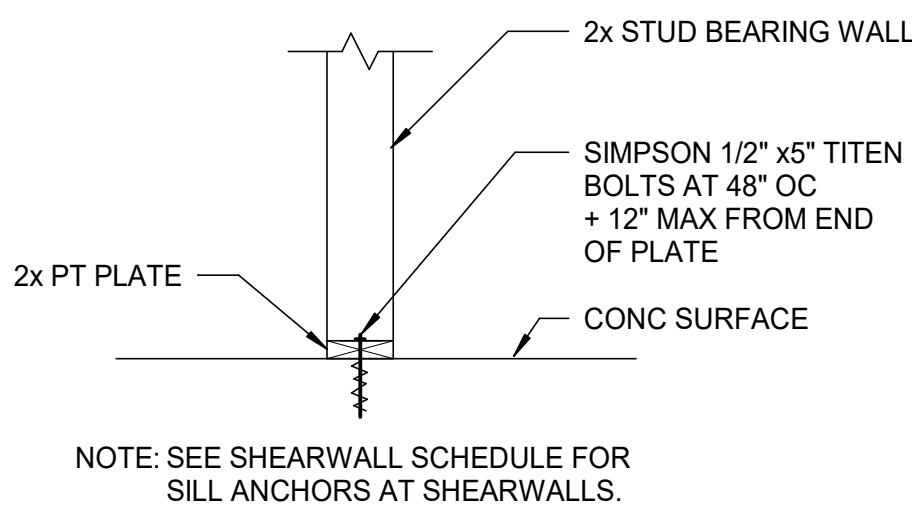
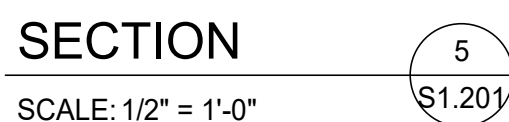
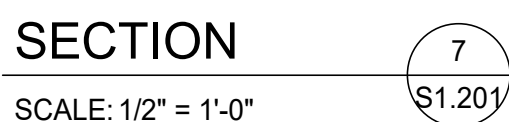
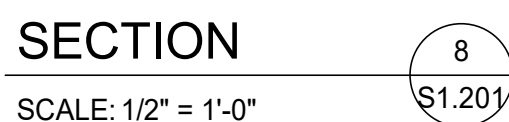
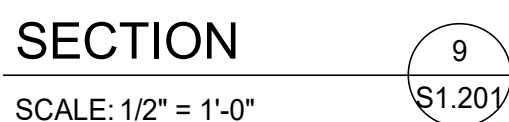


TYPICAL WALL CONSTRUCTION JOINT

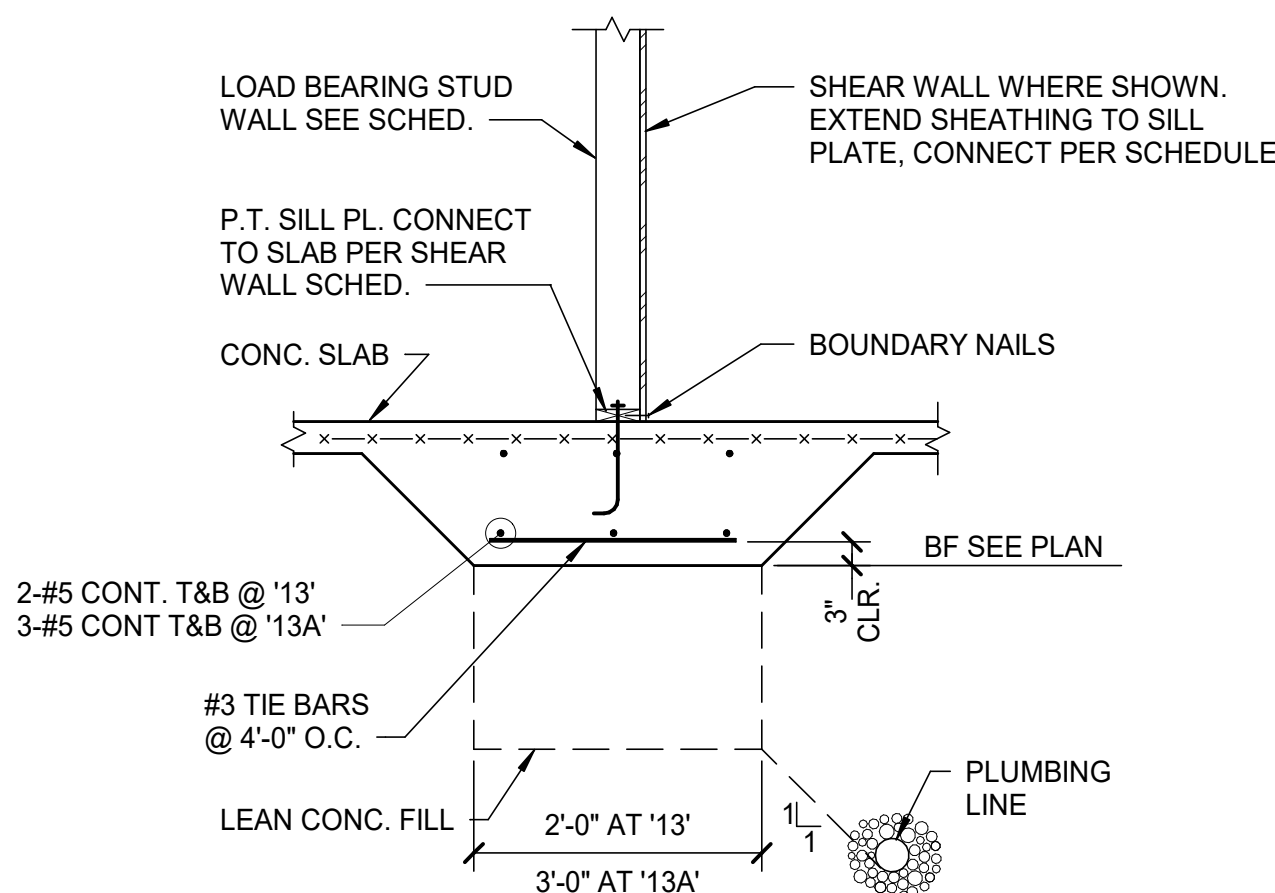
- NOTES:  
1. PROVIDE CONTROL OR CONSTRUCTION JOINT AT 30'-0" MAX SPACING.  
2. LOCATE FIRST JOINT NO FURTHER THAN 15'-0" FROM CORNER.



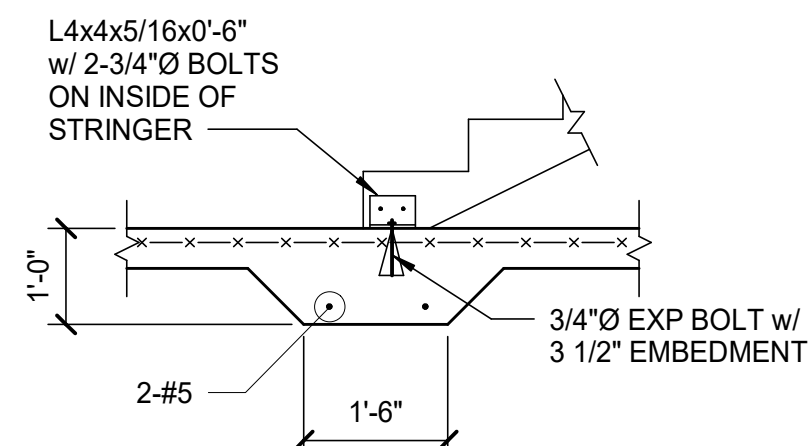
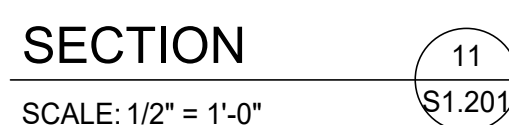
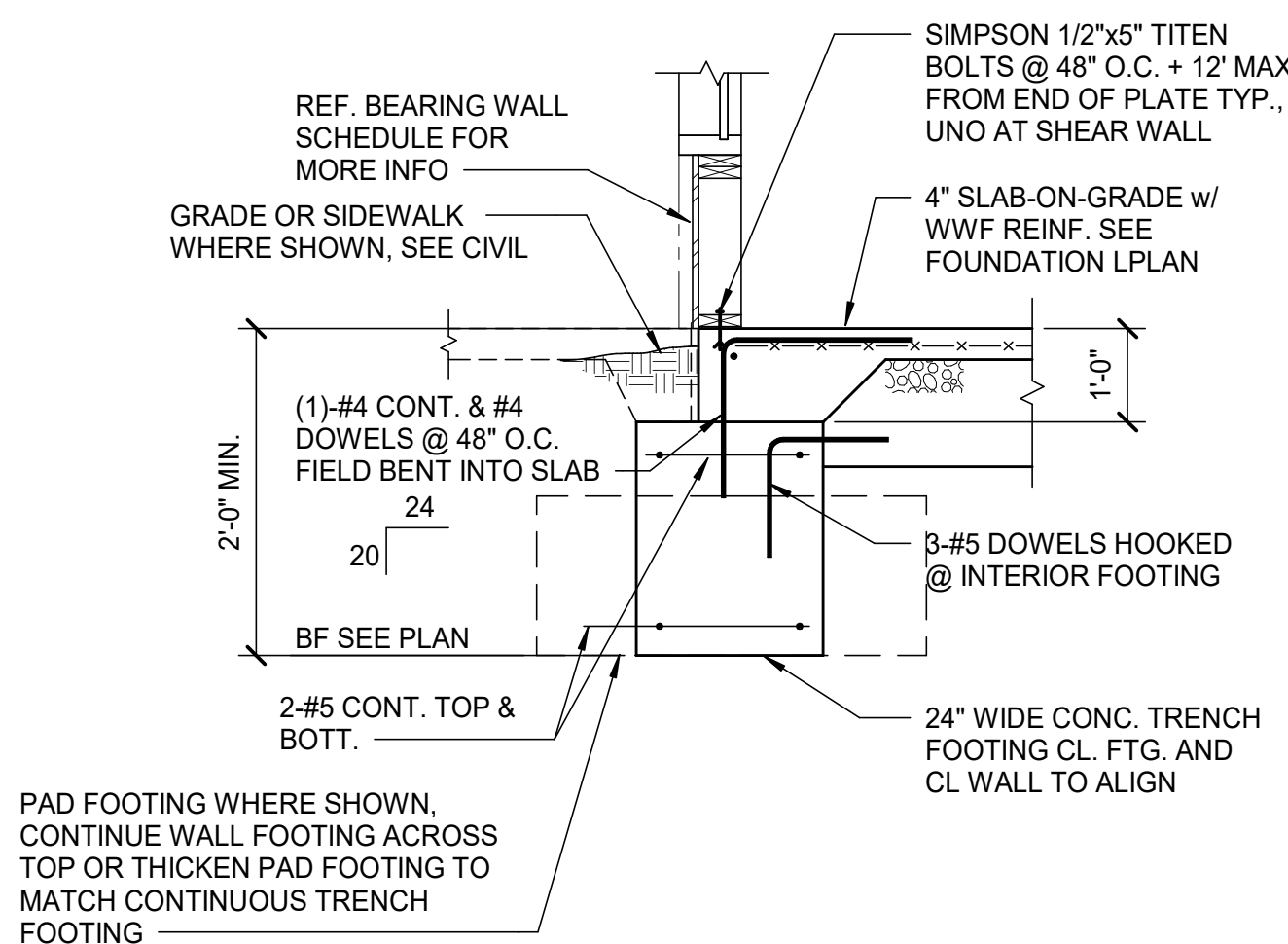
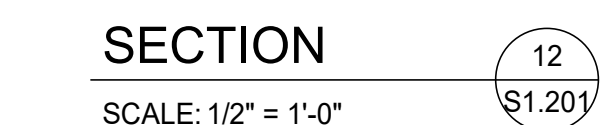
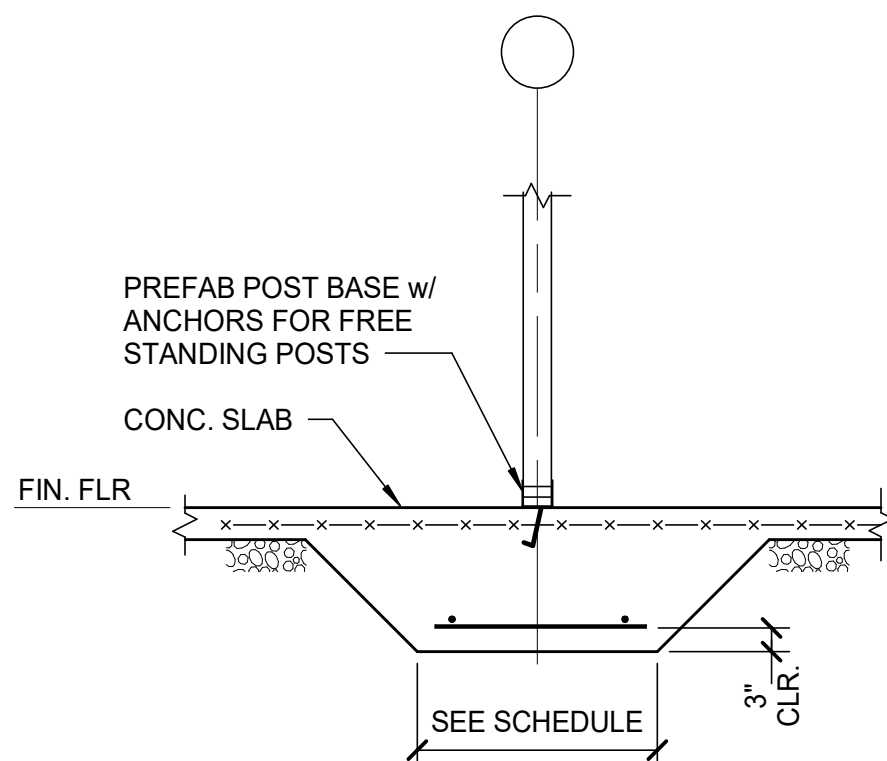
TYPICAL HOUSEKEEPING PAD



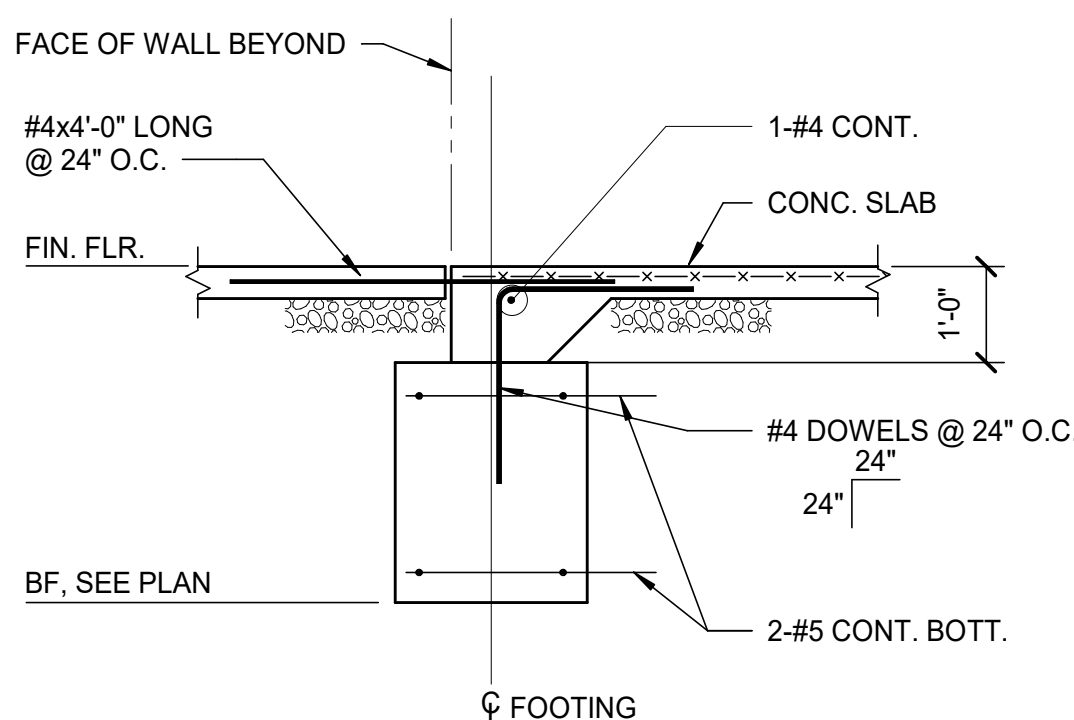
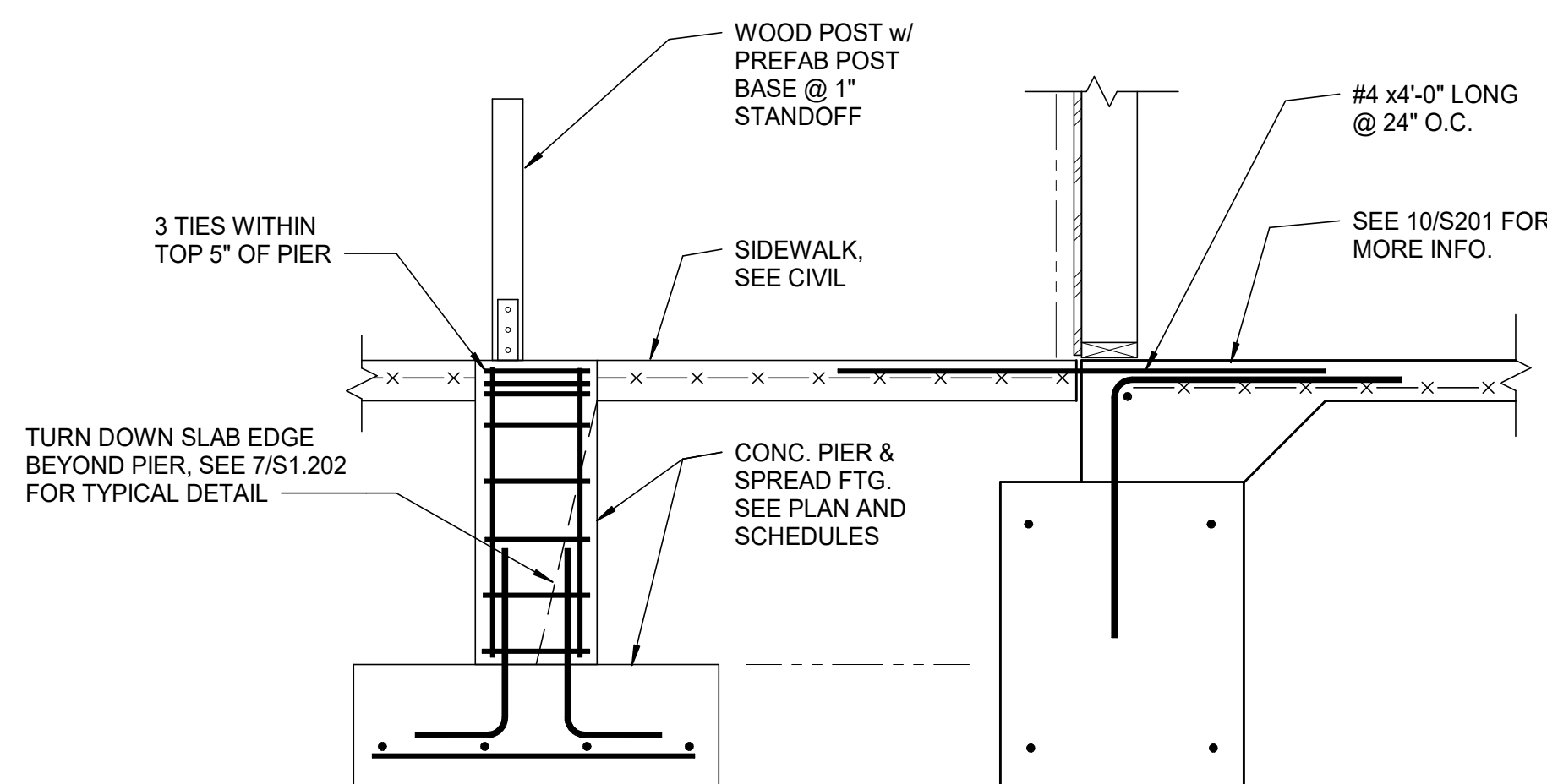
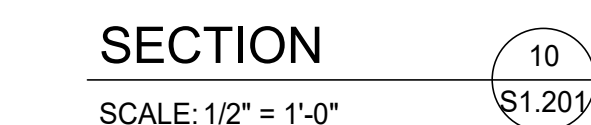
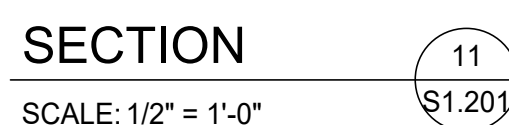
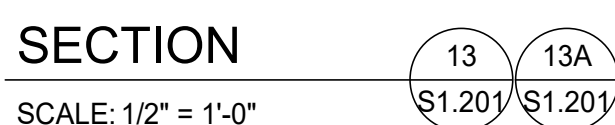
TYPICAL WOOD PLATE TO CONC ANCHORAGE (EXCEPT SHEAR WALLS)



INTERIOR WOOD COLUMN FOOTING



THICKENED SLAB @ STRINGER



TYPICAL SECTION @ DOOR ENTRY



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S1.201  
FOUNDATION SECTIONS  
3 NORTH  
©2020

www.3north.com  
804 232 8900

REVISIONS  
PERMIT  
06/11/2021

PERMIT SET

06/11/2021

12/15/20



LAP VERT STEEL A MIN OF 48 BAR DIAMETERS AT SPLICES. HOLD IN POSITION WITH WIRE TIES @ 5'-0" OC STEEL IS TO BE IN PLACE PRIOR TO PLACING GROUTING.

STOP GROUT LIFT 1 1/2" FROM TOP OF BLOCK UNIT.

CONSOLIDATE EA LIFT BY MECH VIBRATION AND RECONSOLIDATE AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.

CELLS CONTAINING VERTICAL REINF SHALL BE GROUTED SOLID. VERT CELLS SHOULD PROVIDE A CONT CAVITY. FREE OF MORTAR DROPPINGS, AND AT LEAST 2 1/2"x3" IN SIZE. PLACE GROUT IN LIFTS NOT EXCEEDING 5'-0" UNLESS CLEANOUTS ARE PROVIDED. MAX GROUT POUR HEIGHT WITH CLEANOUTS SHALL BE 12'-0".

PLACE MORTAR ON CROSS WEBS ADJACENT TO CELLS WHICH WILL BE GROUTED.

WHEN GROUT POUR EXCEEDS 5'-0" HEIGHT, PROVIDE CLEANOUTS IN THE BOTTOM COURSE OF MASONRY AT EA VERT BAR. THE SIZE OF THE CLEANOUT OPENINGS SHALL BE OF SUFFICIENT SIZE TO PERMIT REMOVAL OF DEBRIS WITH A MIN OPENING DIMENSION OF 3". REMOVE ALL MORTAR DROPPINGS & INSPECT VERT REINFORCEMENT PRIOR TO PROVIDING CLOSURE TO RESIST GROUT PRESSURE.

FOOTING OR TOP OF WALL AT PREVIOUS GROUT POUR.

TYPICAL REINFORCED MASONRY CONSTRUCTION

SECTION

SCALE: 3/4" = 1'-0"

4  
S1.202

#4 @ 16" OC DOWELS INTO SLAB, ALTERNATE 24"

BEARING AND/OR SHEAR WALL, SEE FRAMING PLANS

CONC SLAB

BF = BGB SEE PLAN

SPREAD FOOTING BEYOND

SECTION

SCALE: 1/2" = 1'-0"

8  
S1.202

STIRRUPS

GRADE BEAM TOP BARS CAST BARS INTO WALL AND PROVIDE TYP CLASS 'B' LAP SPLICE VERT

POCKET GRADE BEAM INTO WALL, 8" BRG

CLASS 'B' SPLICE

6" THICKENED SLAB BEYOND

GRADE BEAM BOTTOM BARS

GRADE BEAM SEE PLAN FOR DESIGNATION AND REINFORCING

SECTION

SCALE: 3/4" = 1'-0"

7  
S1.202

SEE ARCH FOR FINISHES

SHEAR WALL BOUNDARY NAILING TO SILL PLATE

PT 2x8 SILL PLATE, CONNECT TO CONCRETE PER SHEAR WALL SCHEDULE

8" CONC w/ #5 @ 16" O.C. VERT & #4 @ 16" O.C. HORIZ CENTERED IN WALL.

GRADE, SEE CIVIL

DOWELS TO MATCH VERT

24" WIDE CONC FOOTING w/ 2-#5 CONT TOP AND BOTTOM

TEMPORARILY BRACE WALL UNTIL FINAL CONNECTION AND NAILING INTO 1ST FLOOR DIAPHRAGM IS COMPLETED.

SECTION

SCALE: 3/4" = 1'-0"

3  
S1.202

FLOOR JOIST, SEE SCHEDULE

SEE 1/S1.202 FOR MORE INFO

BF, SEE PLAN

SECTION

SCALE: 1/2" = 1'-0"

2  
S1.202

3" CLR TYP

BENT BARS TO MATCH CONT REINF IN FTG

TOP REINFORCEMENT WHERE NOTED

PROVIDE 2-#5x10'-0" LONG TOP

COMPRESSIBLE FILLER OVER PIPE

3" CLR TYP

TF, SEE PLAN

UNDERGROUND PLUMBING LINE, SEE MEP DWGS FOR LOCATION AND INVERT ELEV

TYPICAL FOOTING STEP (F.S.)

SECTION

SCALE: 1/2" = 1'-0"

10  
S1.202

WATER STOP

(2) 2x12 w/ 3/4" Ø x 8" LONG EXP. ANCHORS @ 24" O.C.

6" THICKENED SLAB W/ #4 @ 12" O.C. E.W. CENTERED x 6'-0" WIDE

2'-0" BAR EXTENSION INTO 4" SOG

COMPACTED FREE DRAINAGE LAYER AS APPROVED BY GEOTECH. BACKFILL IN LIFTS NOT EXCEEDING 24"

12" CONC WALL

#4 @ 12" O.C. E.F. HORIZ.

#5 @ 12" O.C. O.F. VERT.

6# DOWELS @ 12" O.C.

6# TOP @ 12" O.C.

16" THICK CONC FTG W/ 15-#5 BARS (10 TOP, 5 BOT) CONT

3'-0" 1'-0" 4'-0"

BF, SEE PLAN

SECTION

SCALE: 1/2" = 1'-0"

1  
S1.202

CORNER OR INTERSECTION

GROUT VOID SOLID

3/16"x1 1/2" GALVANIZED STEEL @ 16" OC VERTICALLY

3" 28" 3"

GROUT VOID SOLID

STRAP & GROUT CAN BE OMITTED WHEN EVERY SECOND COURSE IS BUILT INTO ADJACENT WALL

MASONRY CORNER OR INTERSECTION DETAIL

SECTION

SCALE: 3/4" = 1'-0"

5  
S1.202

BACKFILL EACH SIDE OF WALL EVENLY. TEMPORARILY BRACE WALL UNTIL FIRST FLOOR SLAB-ON-GRADE ATTAINS DESIGN COMPRESSIVE STRENGTH.

8" CONC w/ #5 @ 16" O.C. VERT & #4 @ 16" O.C. HORIZ CENTERED IN WALL

GRADE, SEE CIVIL

DOWELS TO MATCH VERT

24" WIDE X 16" THK CONC FOOTING w/ 2-#5 CONT TOP AND BOTTOM. SEE 10/S1.202 FOR FTG. STEP DETAIL

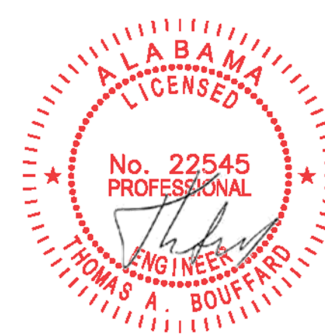
#4 DOWELS @ 24" OC 24" 24"

SEE 1/S1.202 FOR MORE INFO

SECTION

SCALE: 3/4" = 1'-0"

9  
S1.202



REVISIONS

PERMIT SET

TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

06/11/2021

S1.202  
FOUNDATION SECTIONS

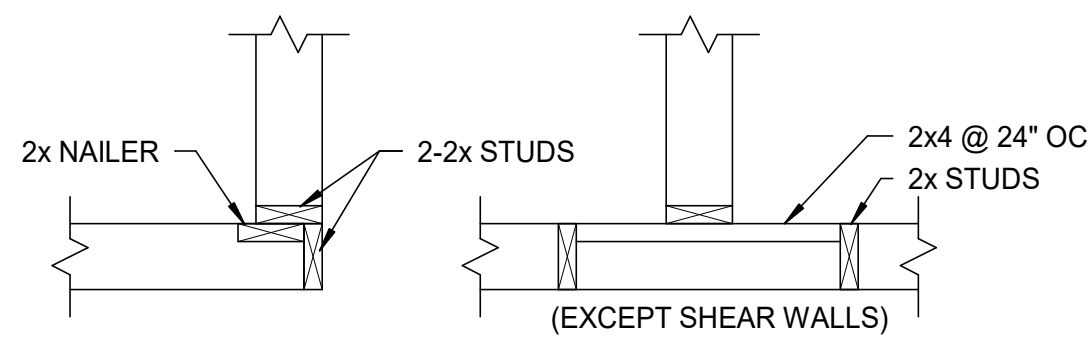
3  
NORTH  
©2020

www.3north.com  
804 232 8900



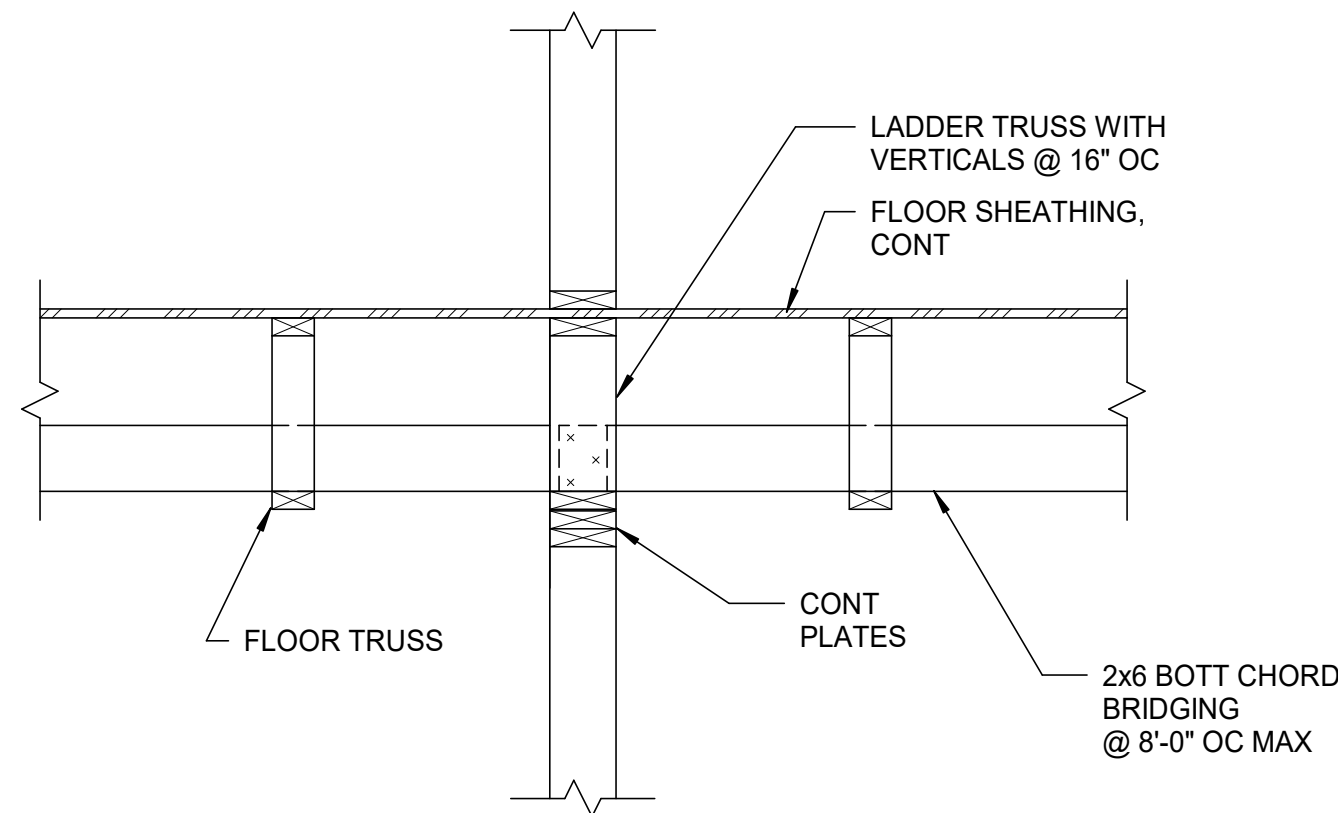






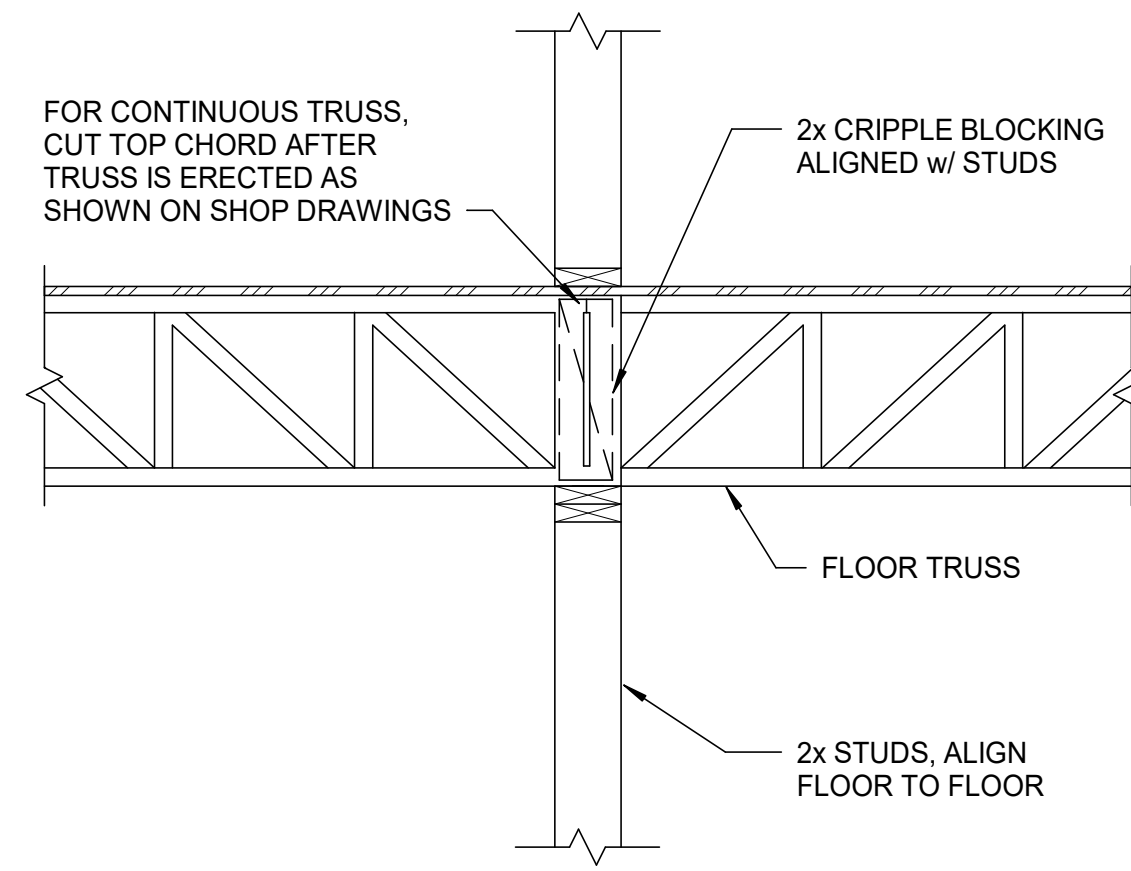
TYPICAL WALL CORNER AND INTERSECTION  
(INTERIOR AND EXTERIOR - TYPE V)

SECTION 5  
SCALE: 3/4" = 1'-0"



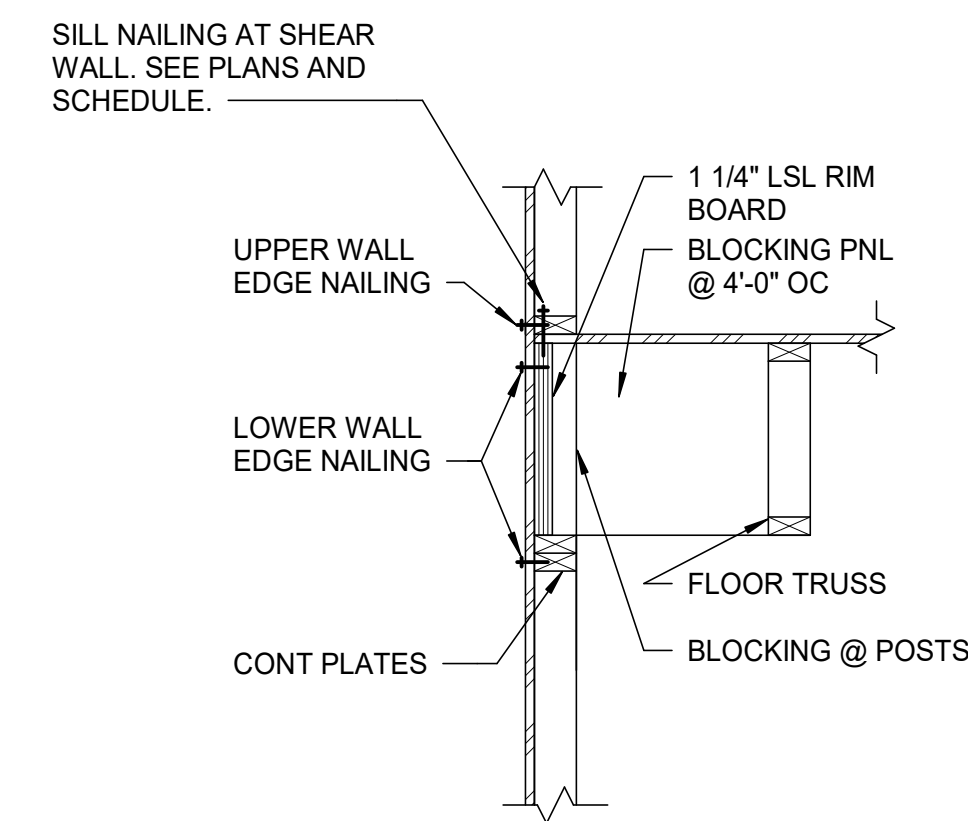
TYPICAL UNIT SEPARATION WALL  
PARALLEL TRUSS - SINGLE WALL

SECTION 4  
SCALE: 3/4" = 1'-0"



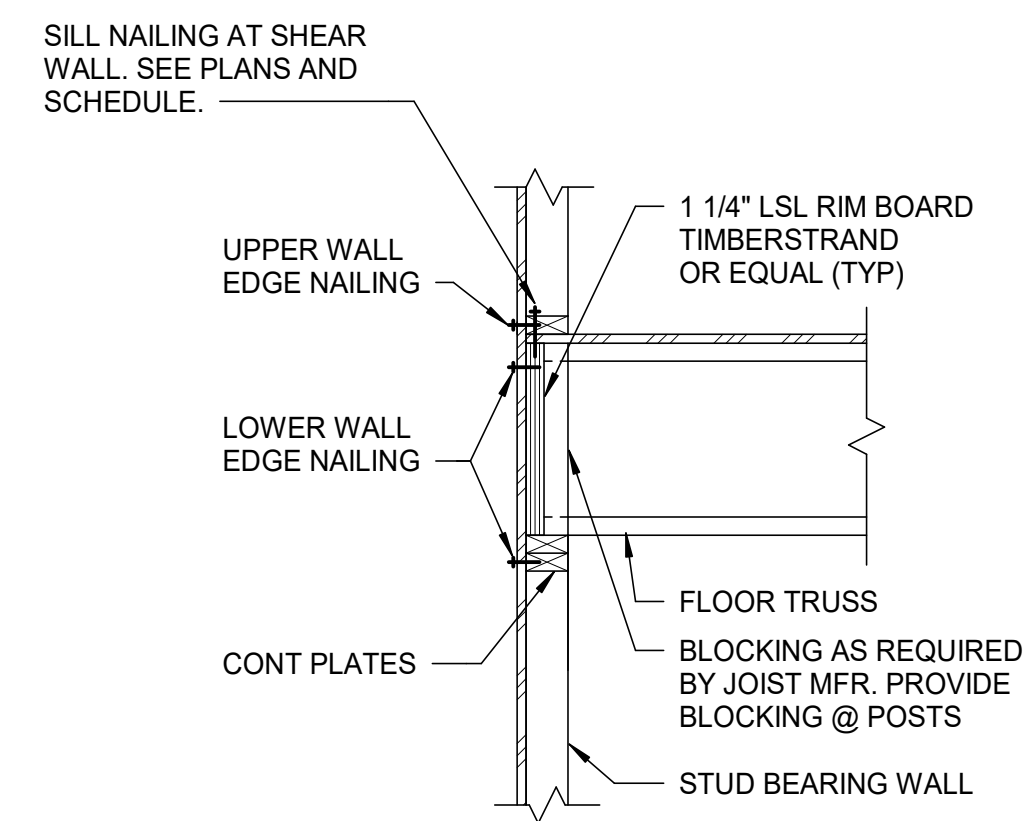
TYPICAL INTERIOR BEARING WALL

SECTION 3  
SCALE: 3/4" = 1'-0"



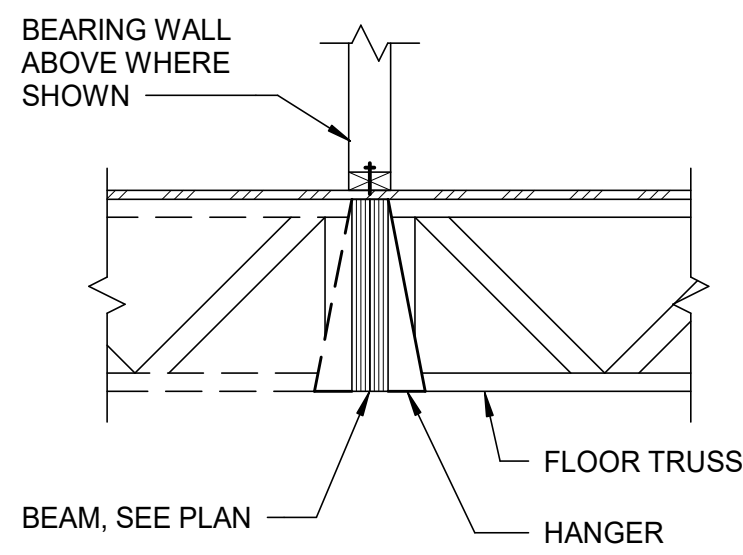
WALL PARALLEL TO JOIST

SECTION 2  
SCALE: 3/4" = 1'-0"



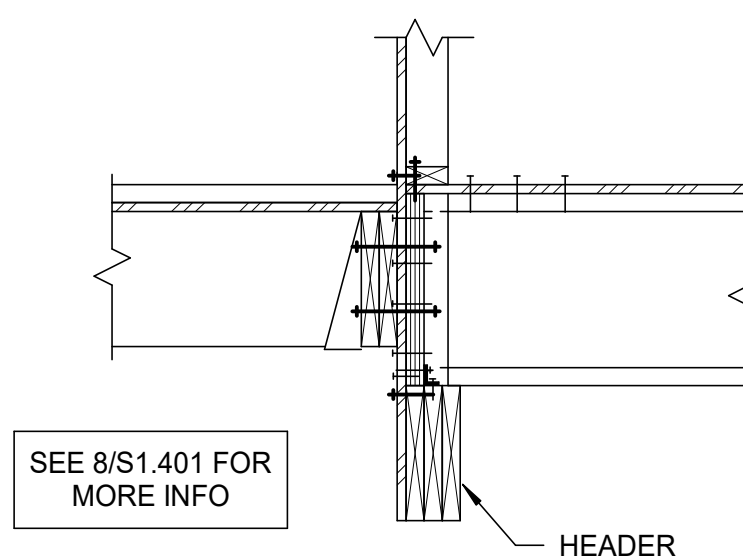
TYPICAL EXTERIOR BRG. WALL

SECTION 1  
SCALE: 3/4" = 1'-0"

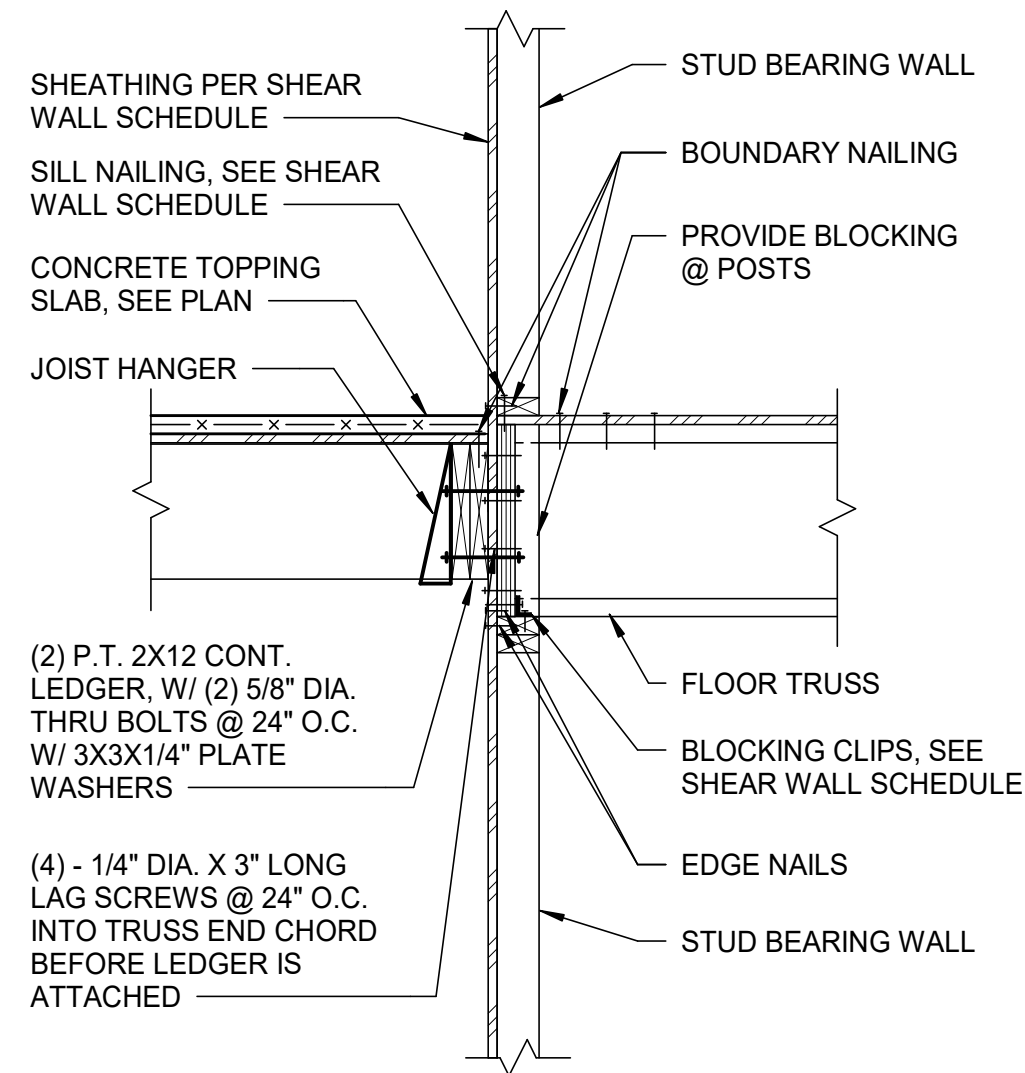


TYPICAL JOIST BRG. ON BEAM

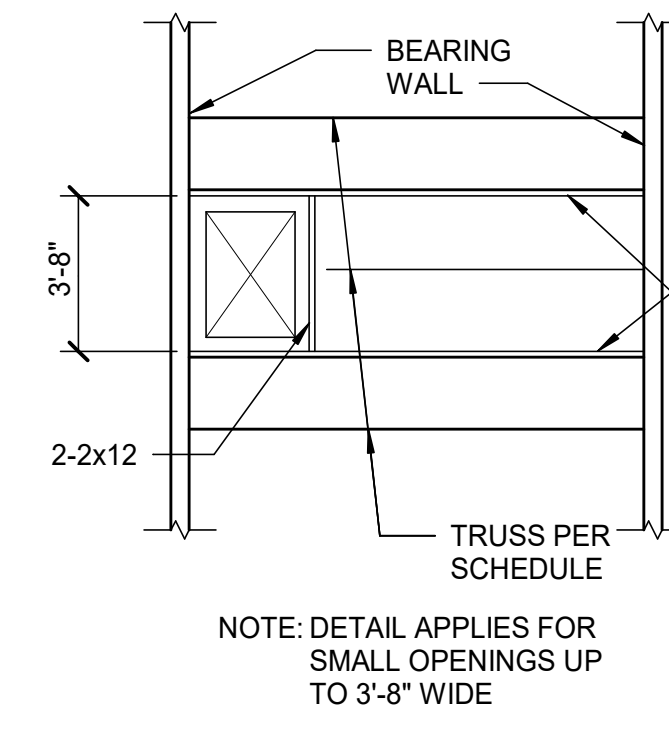
SECTION 10  
SCALE: 3/4" = 1'-0"



SECTION 9  
SCALE: 3/4" = 1'-0"

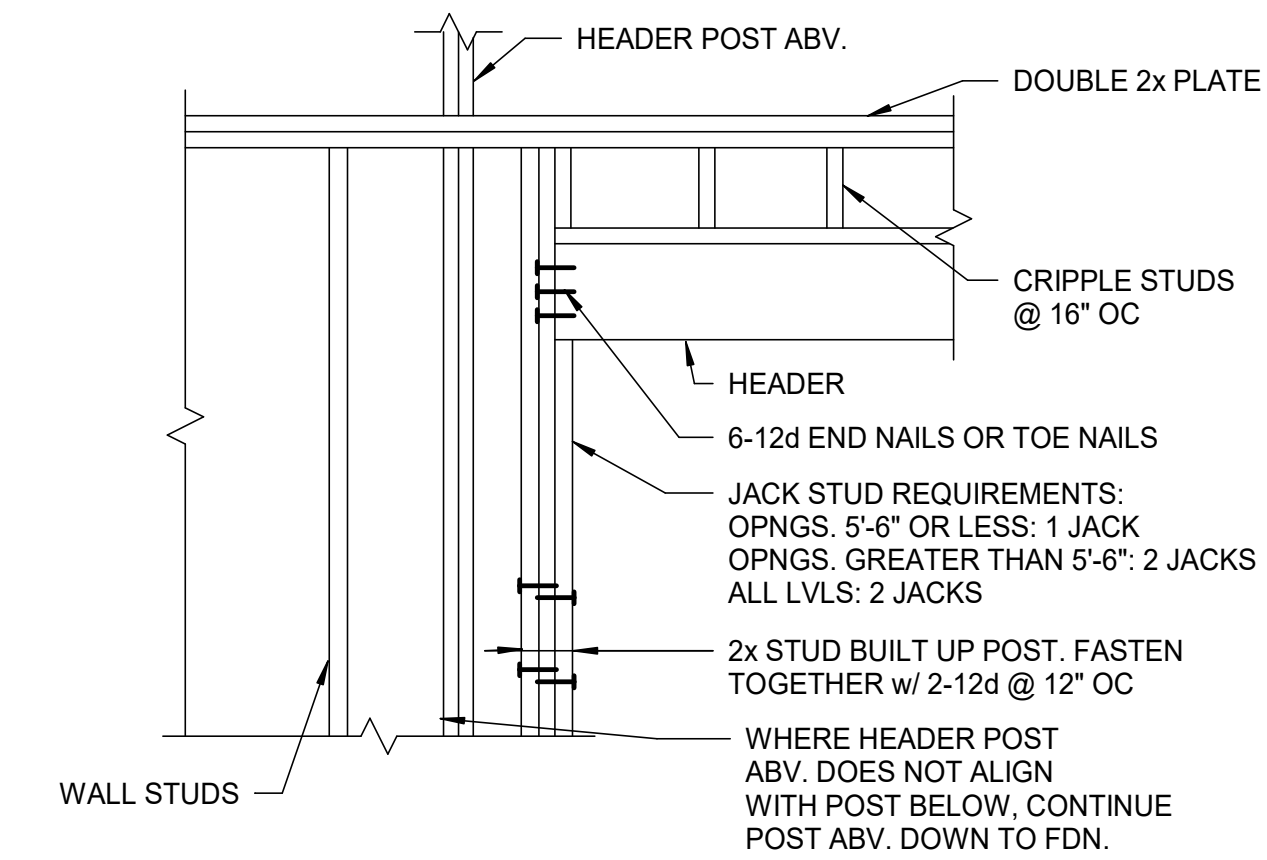


SECTION 8  
SCALE: 3/4" = 1'-0"



TYPICAL SHAFT FRAMING AT TRUSS FLOOR

SECTION 7  
SCALE: T.S.

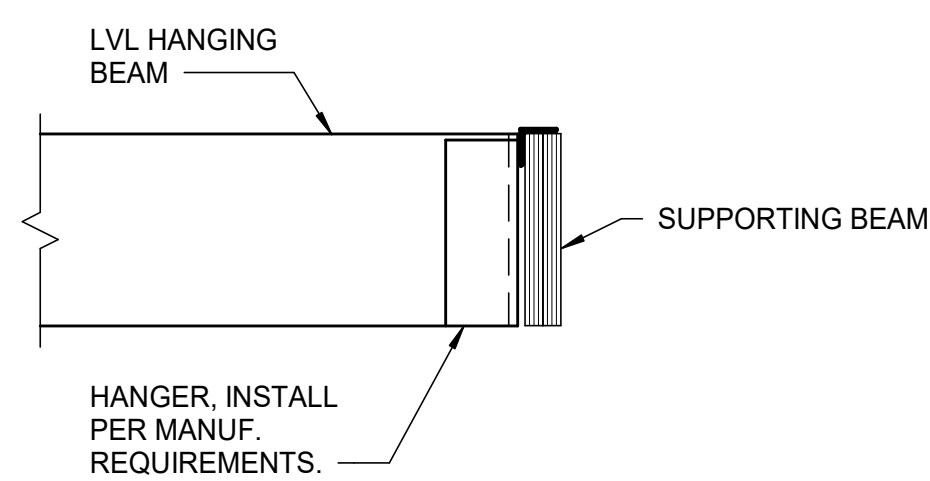


TYPICAL DROPPED HEADER AT OPENING

SECTION 6  
SCALE: 3/4" = 1'-0"

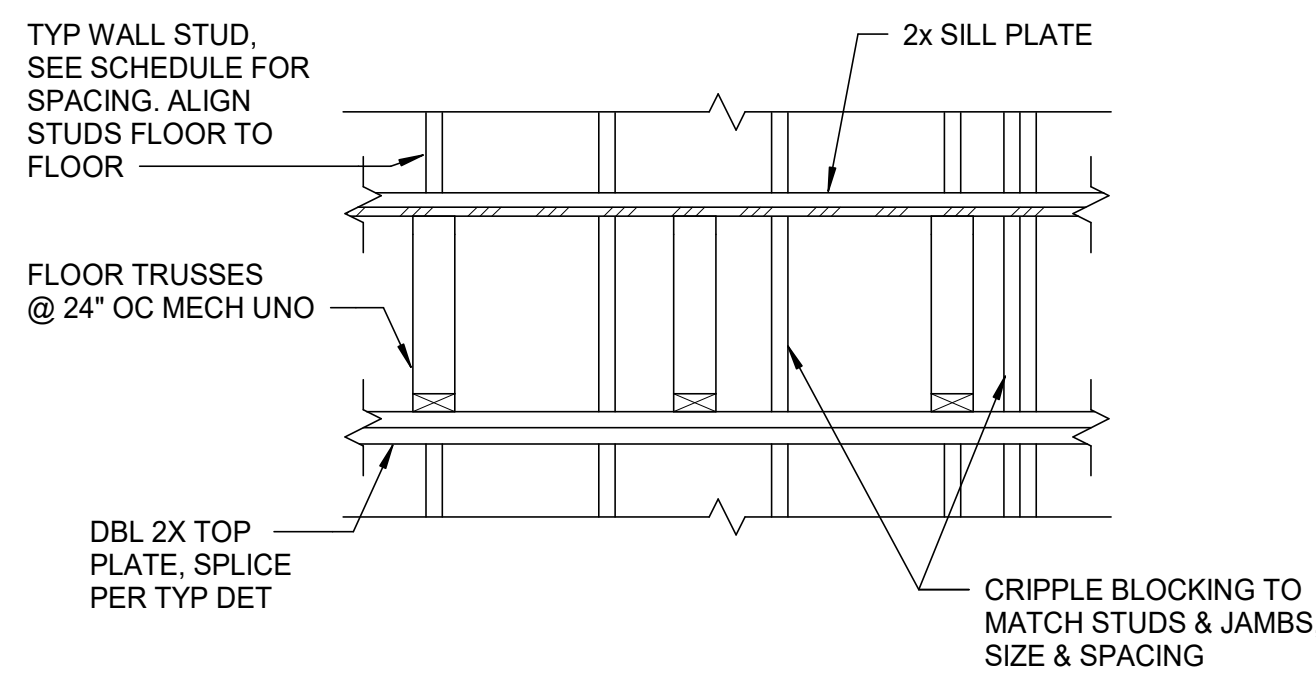
HANGING BEAM SIZE	MAX. LOAD (LB)	REQUIRED * HANGER
2-12"	7,900	SIMPSON HGLT 3.511
2-14"	9,310	SIMPSON HGLT 3.514
2-16"	10,600	SIMPSON HGLT 3.516
2-18"	10,950	SIMPSON HGLT 3.518

\* OR EQUAL



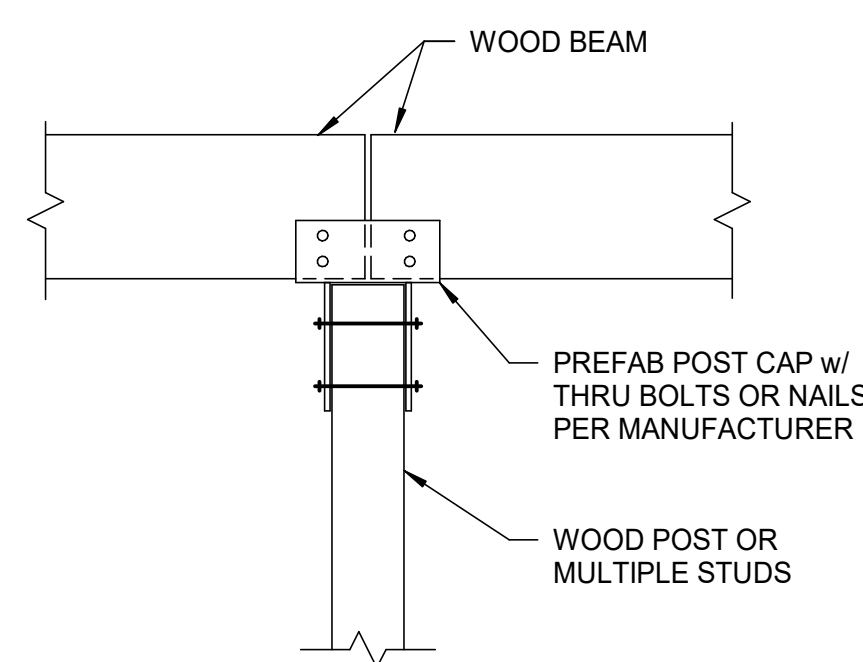
TYPICAL LVL BEAM TO BEAM CONNECTION

SECTION 15  
SCALE: 3/4" = 1'-0"



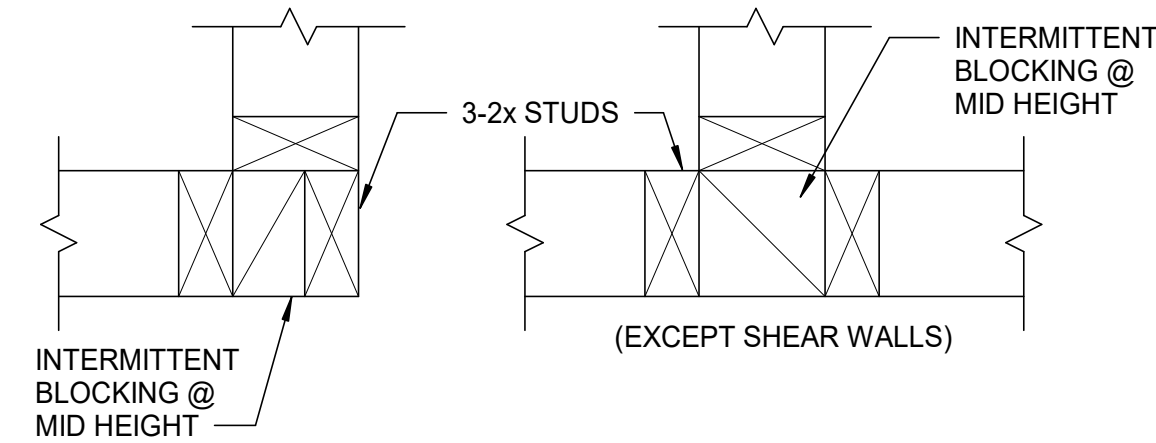
TYPICAL WALL CRIPPLE BLOCKING  
AT BEARING WALLS

SECTION 14  
SCALE: 3/4" = 1'-0"



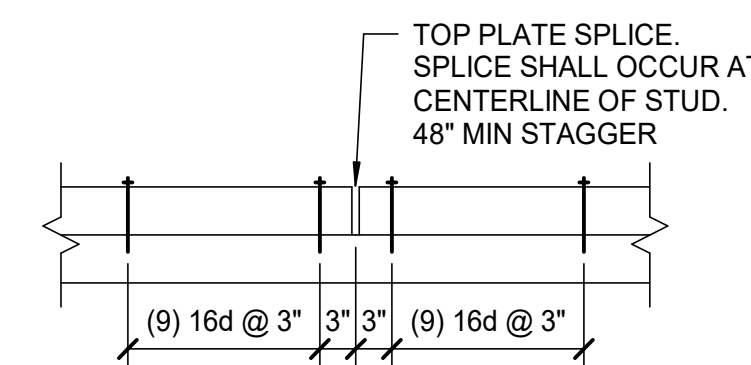
TYPICAL WOOD BEAM TO WOOD POST CONNECTION

SECTION 13  
SCALE: 3/4" = 1'-0"



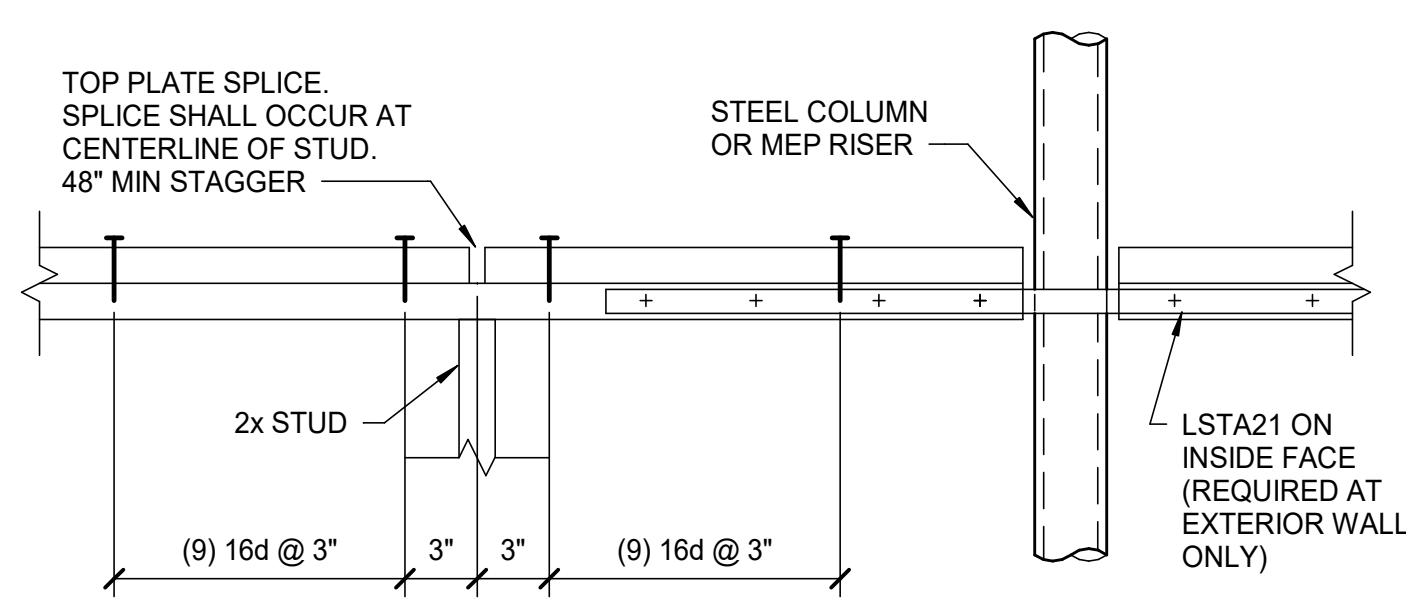
TYP CORNER AND INTERSECTION STUD WALL

SECTION 12  
SCALE: 3/4" = 1'-0"



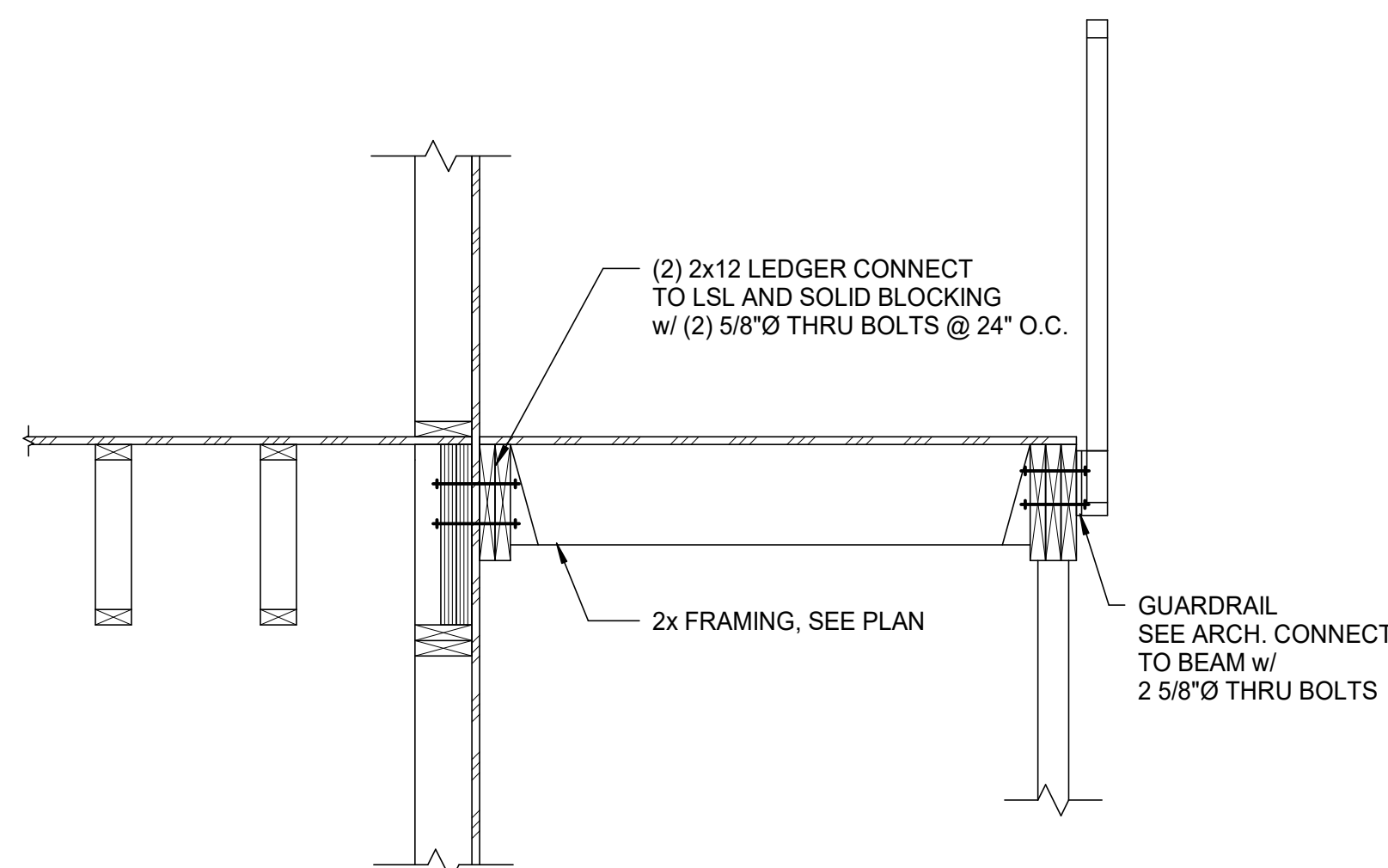
TYPICAL TOP PLATE SPLICE

SECTION 11  
SCALE: 3/4" = 1'-0"

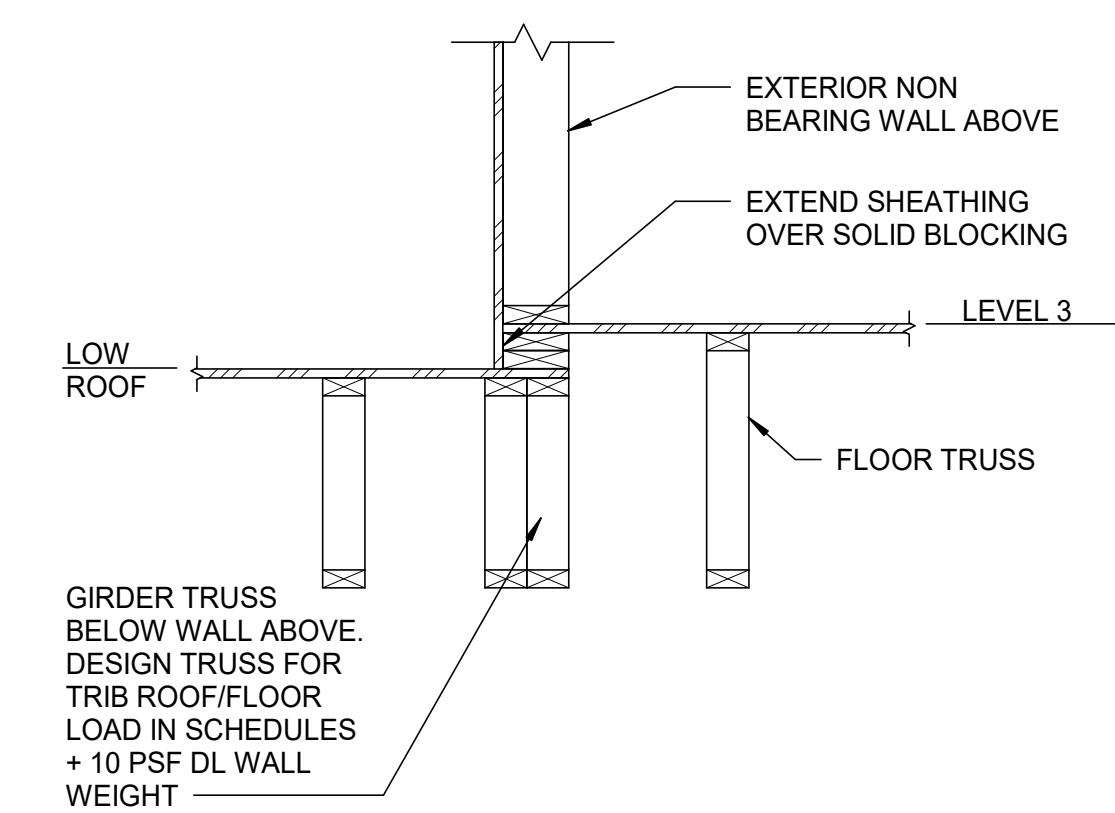


TYPICAL TOP PLATE SPLICE AT ALL WALLS AND  
PLATE INTERRUPTION STRAP AT EXTERIOR WALL

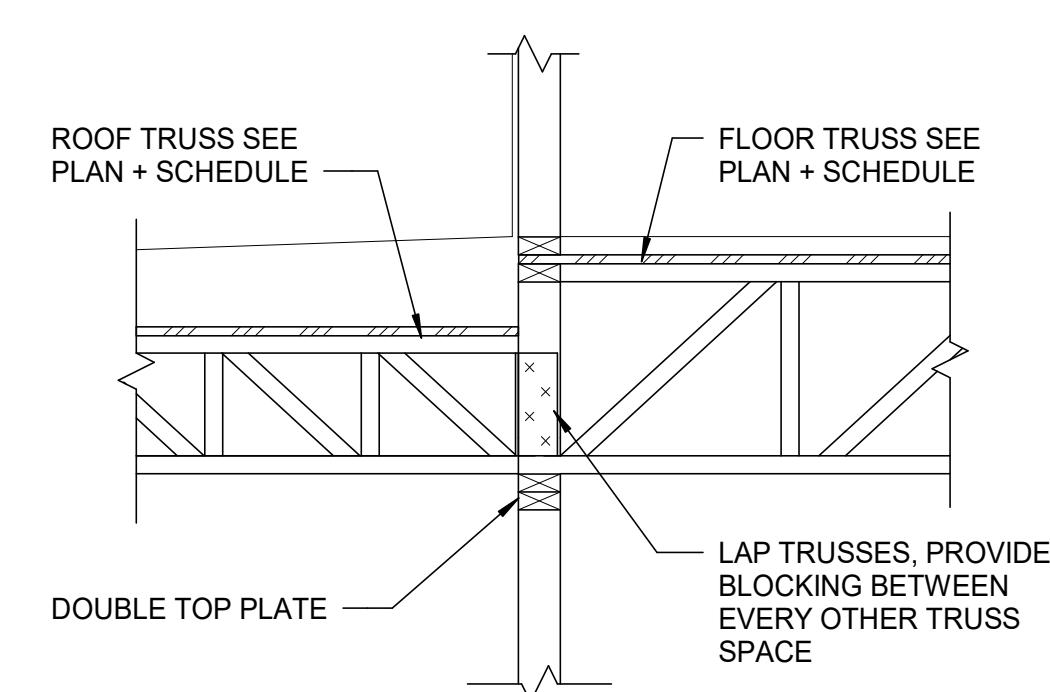
SECTION 19  
SCALE: 1 1/2" = 1'-0"



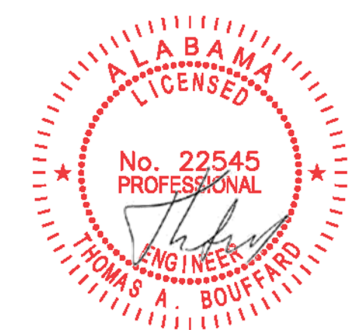
SECTION 18  
SCALE: 3/4" = 1'-0"



SECTION 17  
SCALE: 3/4" = 1'-0"



SECTION 16  
SCALE: 3/4" = 1'-0"



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S1.402  
WOOD FRAMING SECTIONS  
3 NORTH  
©2020

www.3north.com  
804 232 8900

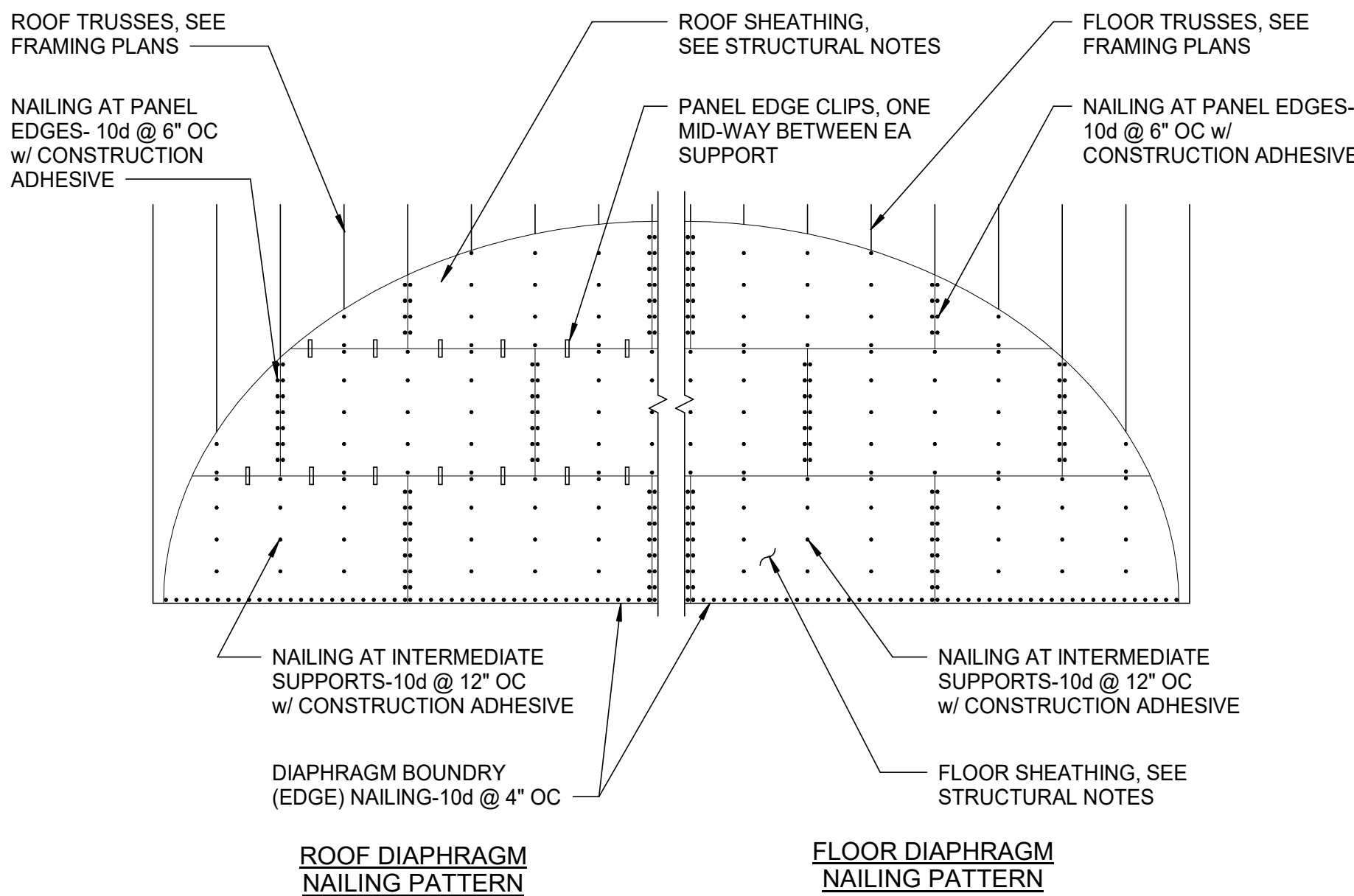
REVISIONS  
PERMIT

PERMIT SET

06/11/2021

12/15/20





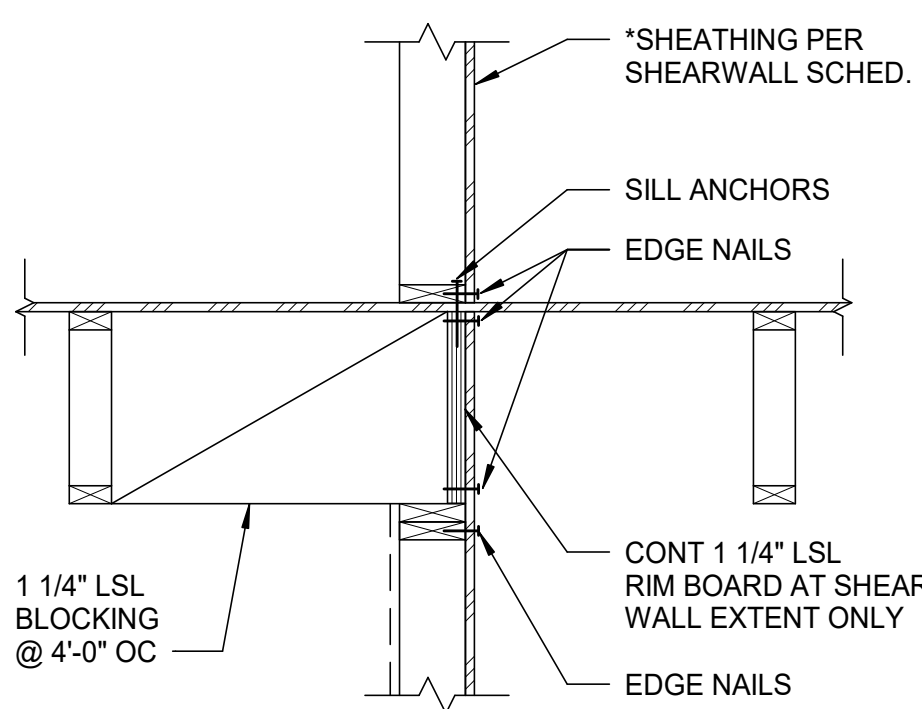
SECTION

SCALE: 3/4" = 1'-0"

1  
S1.403

SHEARWALL SCHEDULE									
MARK (WALL TYPE)	LEVEL	SHEATHING TYPE	NAIL SIZE PENETRATION	NAIL SPACING AT EDGES	BLOCKING	MIN END CHORD	SILL ANCHORS	CHORD ANCHORS	REMARKS
SW-1	3RD TO ROOF	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 6" O.C. (1) ROWS 10d NAILS @ 6" O.C.	HDU2-SDS2.5 w/5/8" ØANCHOR	
SW-1	2ND TO 3RD	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 6" O.C. (1) ROWS 10d NAILS @ 6" O.C.	NA	
SW-1	1ST TO 2ND	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	6"	BLOCKED	3-2X6	(1) ROWS 10d NAILS @ 4" O.C. (1) ROWS 10d NAILS @ 4" O.C.	NA	NOTE 1 & NOTE 3
SW-1	LOWER LEVEL	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	4"	BLOCKED	4-2X6	(1) ROWS 1 1/4" DIA WOOD SCREWS @ 4" O.C. 1/2" DIA. A.B. @ 24" O.C. THRU PT SILL	NA	
MARK (WALL TYPE)	LEVEL	SHEATHING TYPE	NAIL SIZE PENETRATION	NAIL SPACING AT EDGES	BLOCKING	END CHORD	SILL ANCHORS	CHORD ANCHORS	REMARKS
SW-2	3RD TO ROOF								
SW-2	2ND TO 3RD	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 6" O.C. (1) ROWS 10d NAILS @ 6" O.C.	HDU2-SDS2.5 w/5/8" ØANCHOR	
SW-2	1ST TO 2ND	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	6"	BLOCKED	3-2X6	(1) ROWS 10d NAILS @ 4" O.C. (1) ROWS 10d NAILS @ 4" O.C.	NA	NOTE 1 & NOTE 3
SW-2	LOWER LEVEL	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	4"	BLOCKED	4-2X6	(1) ROWS 1 1/4" DIA WOOD SCREWS @ 4" O.C. 1/2" DIA. A.B. @ 24" O.C. THRU PT SILL	HDU2-SDS2.5 w/SB5/8x24	
MARK (WALL TYPE)	LEVEL	SHEATHING TYPE	NAIL SIZE PENETRATION	NAIL SPACING AT EDGES	BLOCKING	END CHORD	SILL ANCHORS	CHORD ANCHORS	REMARKS
SW-3	3RD TO ROOF								
SW-3	2ND TO 3RD	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 6" O.C. (1) ROWS 10d NAILS @ 6" O.C.	HDU2-SDS2.5 w/5/8" ØANCHOR	
SW-3	1ST TO 2ND	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 4" O.C. (1) ROWS 10d NAILS @ 4" O.C.	HDU5-SDS2.5 w/5/8" ØANCHOR	NOTE 1 & NOTE 3 - SB5/8x24 WHERE TERMINATES @ 1ST
SW-3	LOWER LEVEL	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	6"	BLOCKED	3-2X6	(1) ROWS 10d NAILS @ 4" O.C. 1/2" DIA. A.B. @ 32" O.C. THRU PT SILL	HDU8-SDS2.5 w/SB7/8x24	
MARK (WALL TYPE)	LEVEL	SHEATHING TYPE	NAIL SIZE PENETRATION	NAIL SPACING AT EDGES	BLOCKING	END CHORD	SILL ANCHORS	CHORD ANCHORS	REMARKS
SW-4	3RD TO ROOF								
SW-4	2ND TO 3RD	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 6" O.C. (1) ROWS 10d NAILS @ 6" O.C.	HDU2-SDS2.5 w/5/8" ØANCHOR	
SW-4	1ST TO 2ND	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 4" O.C. 1/2" DIA. A.B. @ 32" O.C. THRU PT SILL	HDU2-SDS2.5 w/SB5/8x24	
SW-4	LOWER LEVEL								
MARK (WALL TYPE)	LEVEL	SHEATHING TYPE	NAIL SIZE PENETRATION	NAIL SPACING AT EDGES	BLOCKING	END CHORD	SILL ANCHORS	CHORD ANCHORS	REMARKS
SW-5	3RD TO ROOF								
SW-5	2ND TO 3RD	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(2) ROWS 16d NAILS @ 6" O.C. (2) ROWS 16d NAILS @ 6" O.C.	HDU4-SDS2.5 w/5/8" ØANCHOR	NOTE 4
SW-5	1ST TO 2ND	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	4"	BLOCKED	2-2X6	(2) ROWS 16d NAILS @ 6" O.C. (2) ROWS 16d NAILS @ 6" O.C.	HDU8-SDS2.5 w/7/8" ØANCHOR	NOTE 1, 3 AND 4 - SB7/8x24 WHERE TERMINATES @ 1ST
SW-5	LOWER LEVEL	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	4"	BLOCKED	6X6 POST	(2) ROWS 16d NAILS @ 4" O.C. 1/2" DIA. A.B. w/ 4.5" SQ PL WASHERS @ 24" O.C. THRU PT SILL	HDU11-SDS2.5 w/SB1x30	NOTE 4

- NOTES:
- ALL SHEAR WALLS END WHERE SHOWN ON FRAMING PLANS. SEE S1.101-S1.104.
  - WHERE SHEAR WALLS TERMINATE ABOVE FOUNDATION, PROVIDE SILL NAILINGS PER SHEAR WALL SCHEDULE.
  - WHERE SHEAR WALLS TERMINATE AT FOUNDATIONS, PROVIDE ANCHOR BOLTS THRU PT SILL AS SCHEDULED ON LOWEST LEVEL.
  - SHEAR WALL END CHORDS AND HOLDDOWNS ONLY REQUIRED AT FAR SHEAR WALL ENDS.



SECTION

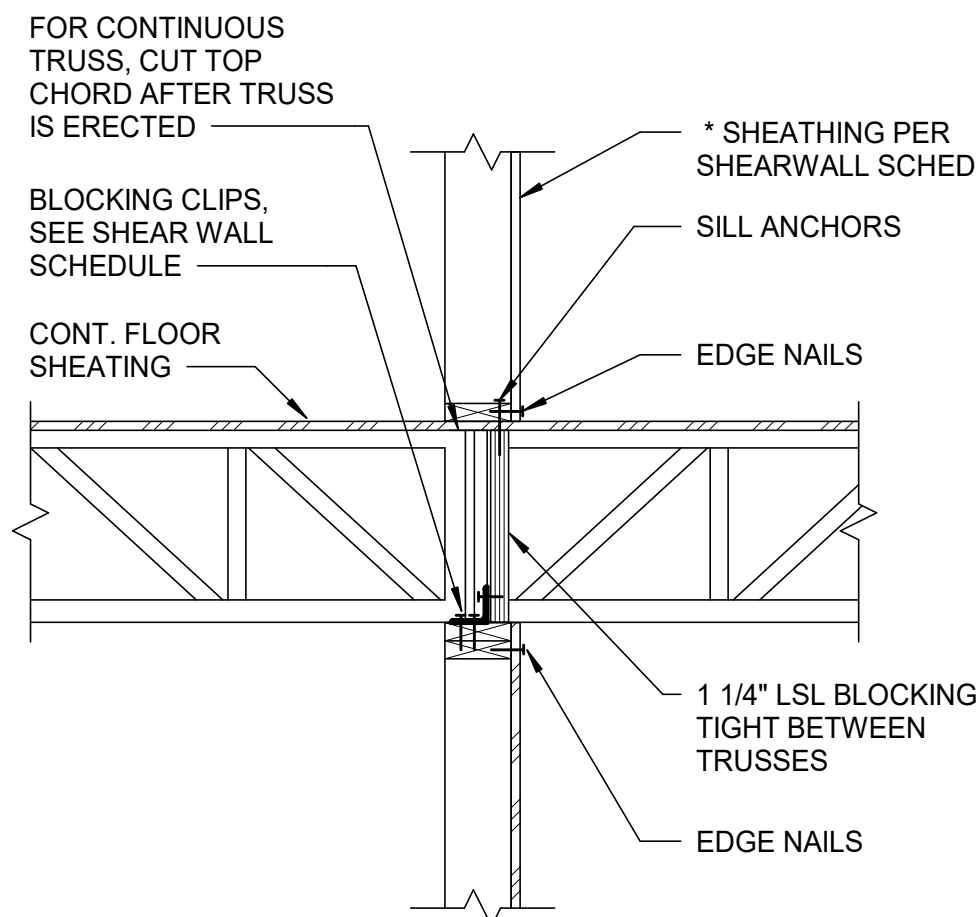
- NOTES:
- WHERE SHEATHING IS INDICATED ON 1 FACE IN SCHEDULE, PLACE ON SAME FACE AS LSL RIM.
  - SEE DETAILS ON S1.402 FOR ADD'L INFORMATION.

TYPICAL SHEARWALL AT UNIT INTERIOR WALL PARALLEL TO TRUSS

SECTION

SCALE: 3/4" = 1'-0"

4  
S1.403



SECTION

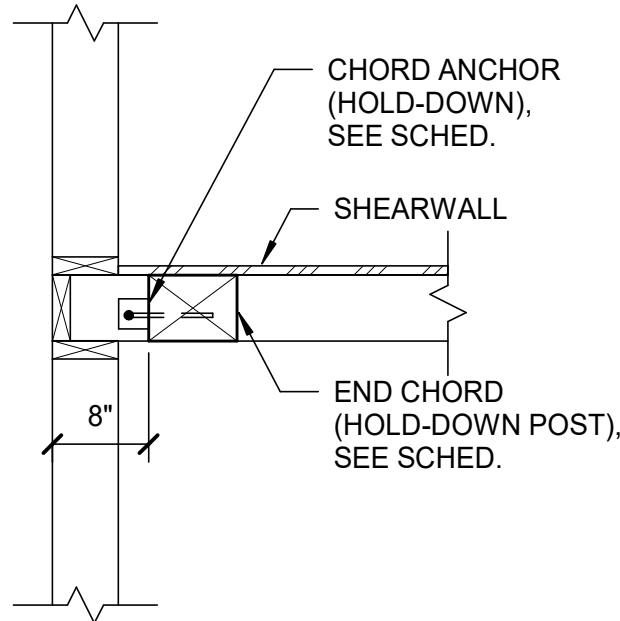
- NOTES:
- WHERE SHEATHING IS INDICATED ON 1 FACE IN SCHEDULE, PLACE ON SAME FACE AS LSL BLOCKING.

TYPICAL SHEARWALL AT UNIT INTERIOR PERPENDICULAR TRUSS

SECTION

SCALE: 3/4" = 1'-0"

3  
S1.403



PLAN

SECTION

SCALE: 3/4" = 1'-0"

2  
S1.403

TYPICAL SHEARWALL ELEVATION AND SCHEDULE

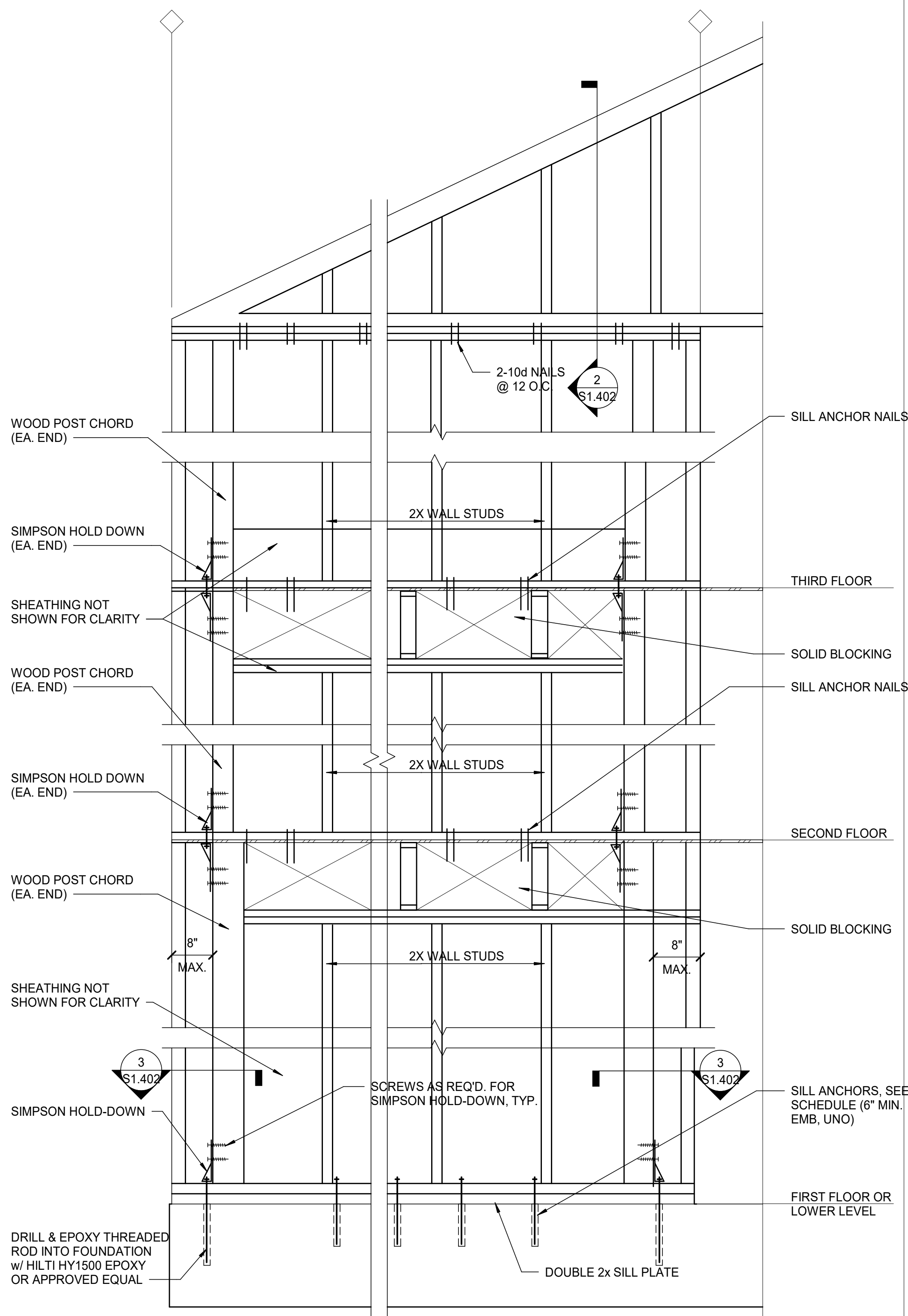
NOTES:

- SHEAR WALLS ARE INDICATED THUS ON PLAN, 'SW-#'.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE DIAGONAL BRACING TO ENSURE LATERAL STABILITY OF STUD WALLS, BY USE OF DIAGONAL METAL STRAPS OR OTHER MEANS, PRIOR TO INSTALLATION OF SHEAR WALL SHEATHING.
- INTERIOR SHEAR WALL SHEATHING SHALL BE INSTALLED AND FASTENED AT SILL PLATE PRIOR TO PLACING OF GYPCRETE.
- ALL SHEAR WALLS SHALL HAVE A MINIMUM END CHORD AS NOTED IN THE SHEAR WALL SCHEDULE.
- SCHEDULED SHEARWALL SHEATHING SHALL BE FASTENED DIRECTLY IN CONTACT WITH THE WALL STUDS. IT SHALL NOT BE PERMITTED TO PLACE RESILIENT CHANNELS NOR ANY OTHER MATERIAL IN BETWEEN THE SCHEDULED SHEATHING AND THE STUDS.
- APPLY PANELS WITH LONG DIMENSION ACROSS STUDS.

SECTION

SCALE: 3/4" = 1'-0"

A  
S1.403



TYPICAL SHEAR WALL DETAIL

TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S1.403  
WOOD SHEARWALL  
SCHEDULE & DETAILS

12/15/20

3  
NORTH  
©2020

www.3north.com  
804 232 8900

REVISIONS

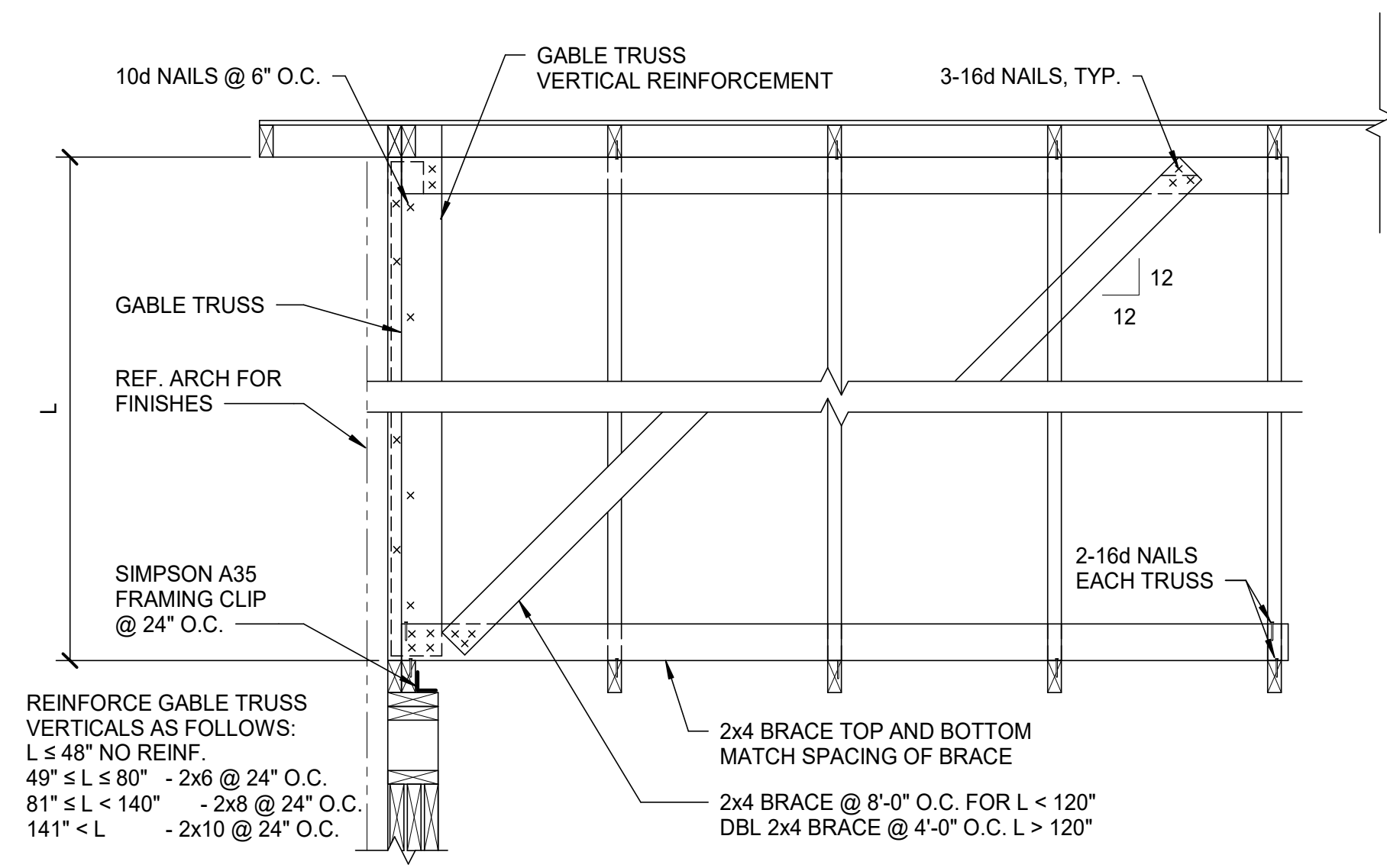
PERMIT

PERMIT SET

06/11/2021





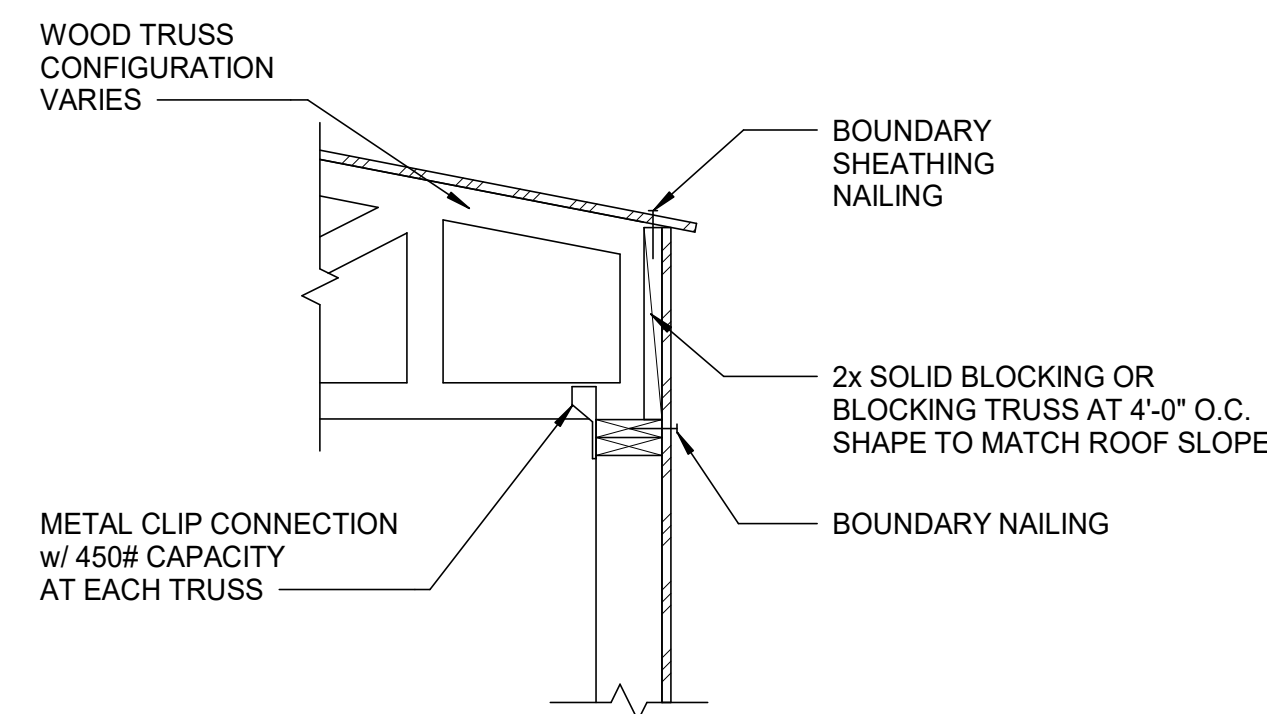


TYPICAL GABLE TRUSS REINFORCEMENT

SECTION

3  
\$1,501

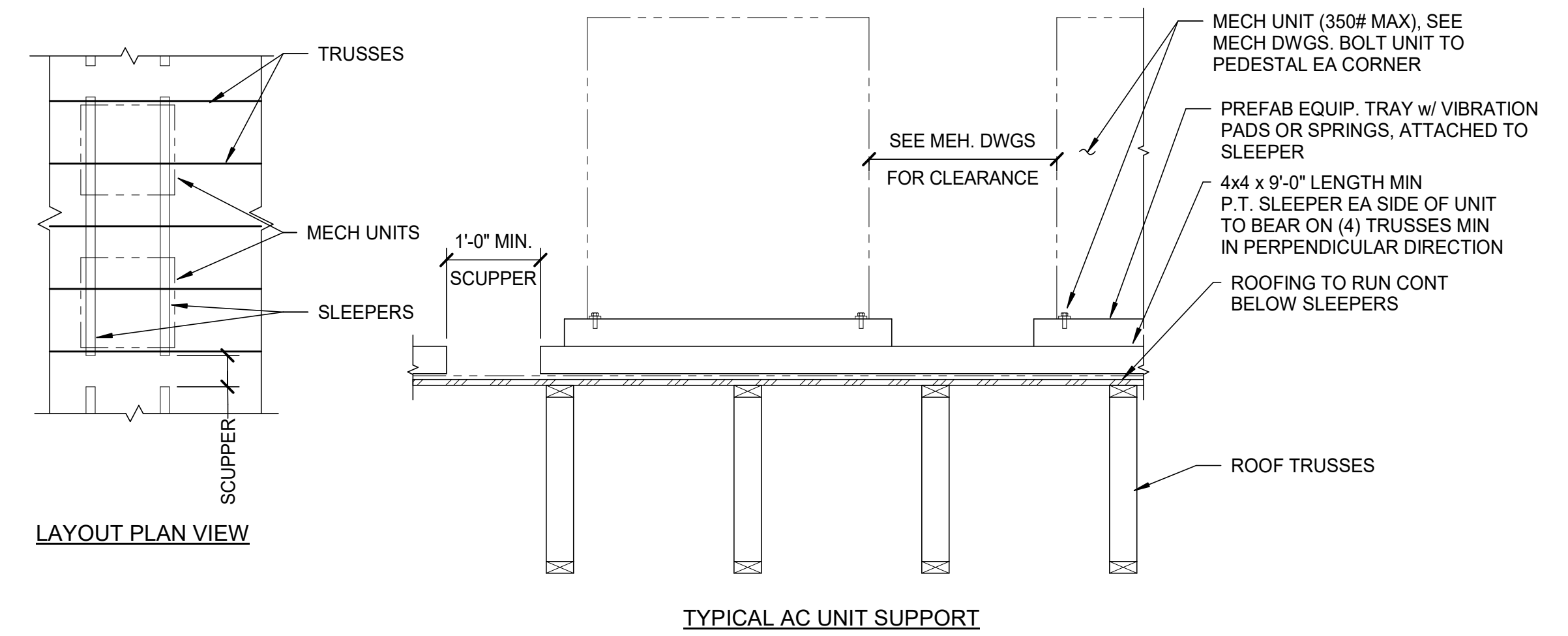
SCALE: 3/4" = 1'-0"



SECTION

2  
\$1,501

SCALE: 3/4" = 1'-0"

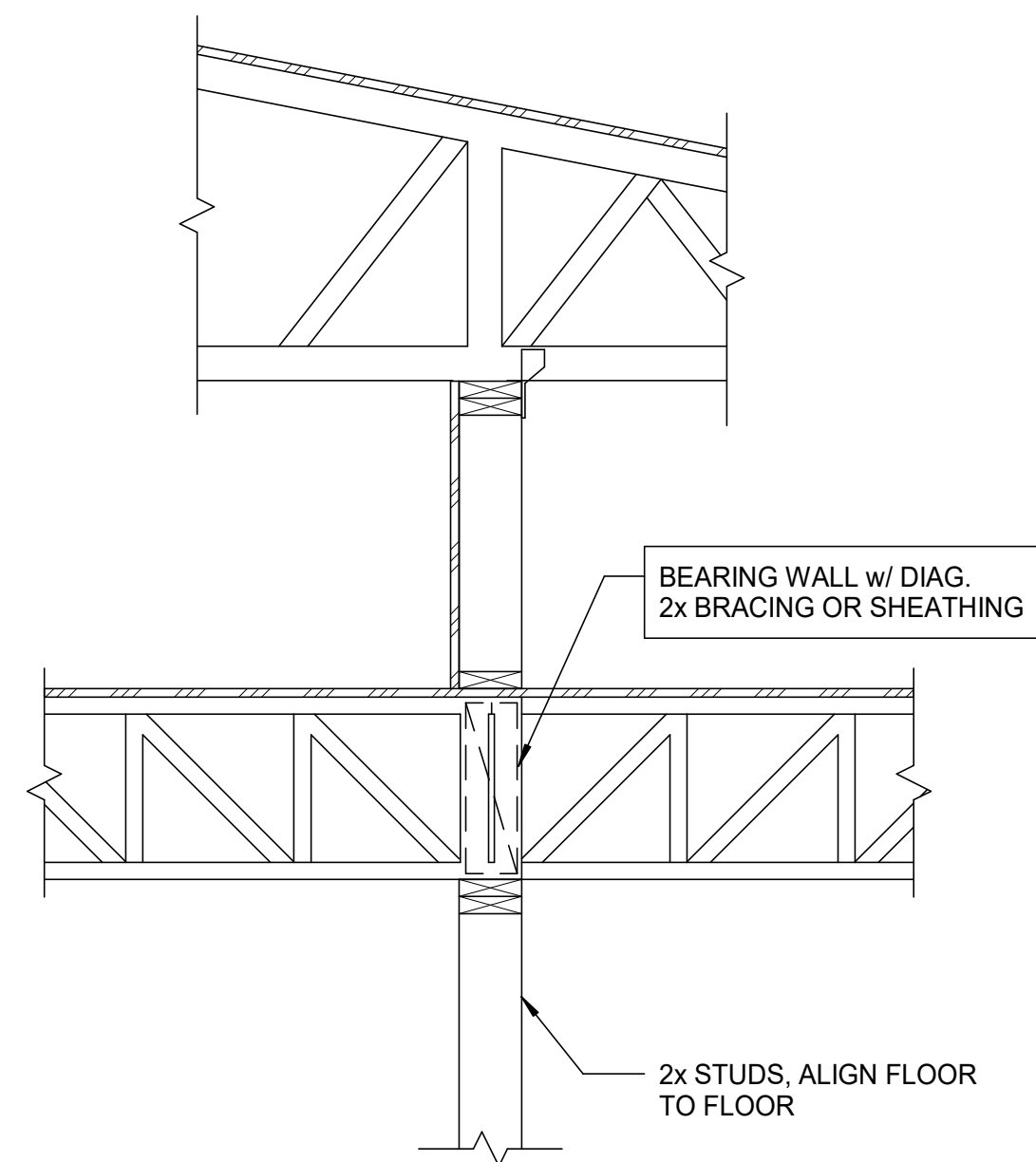


TYPICAL AC UNIT SUPPORT

SECTION

1  
\$1,501

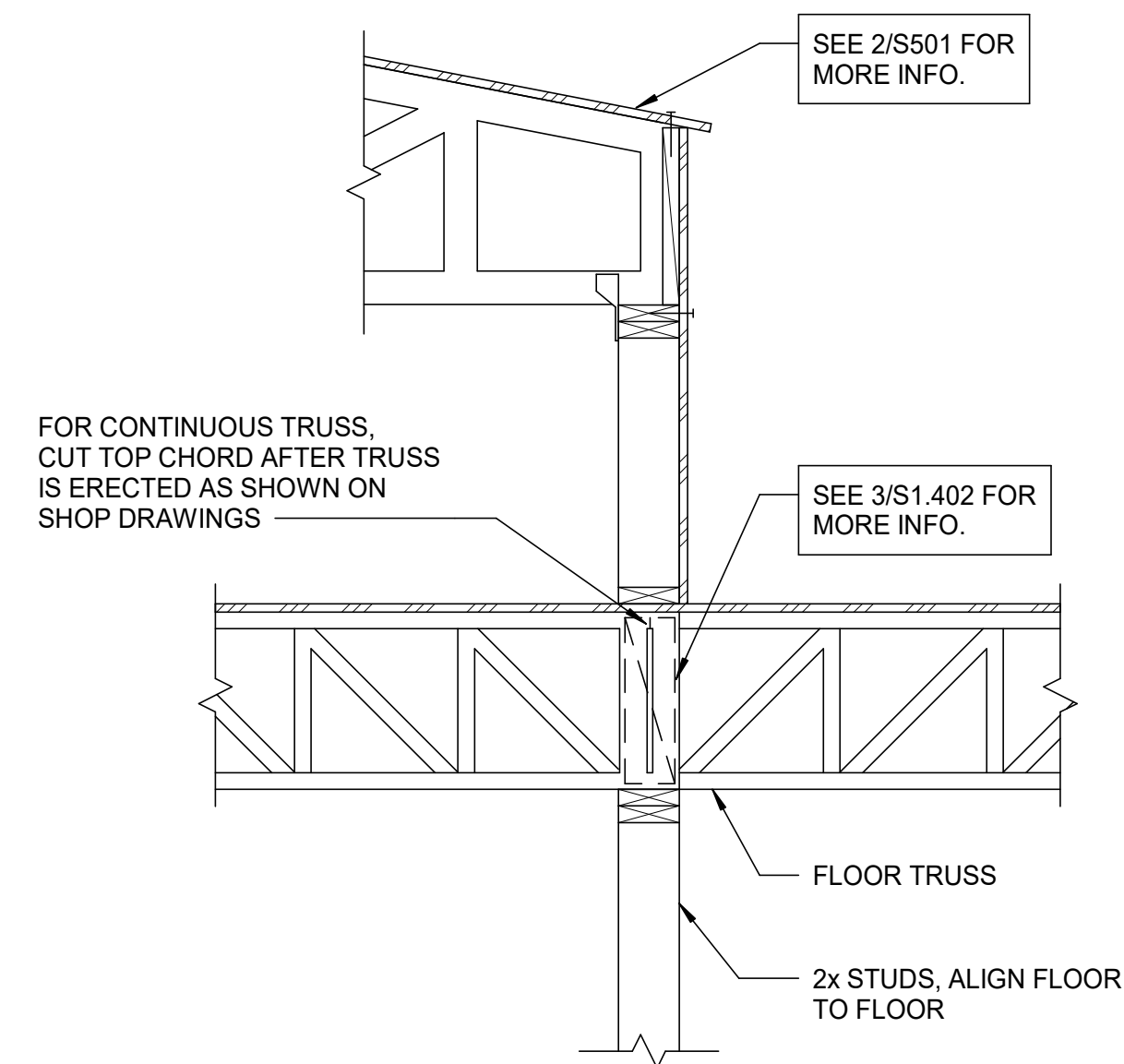
SCALE: 3/4" = 1'-0"



SECTION

7  
\$1,501

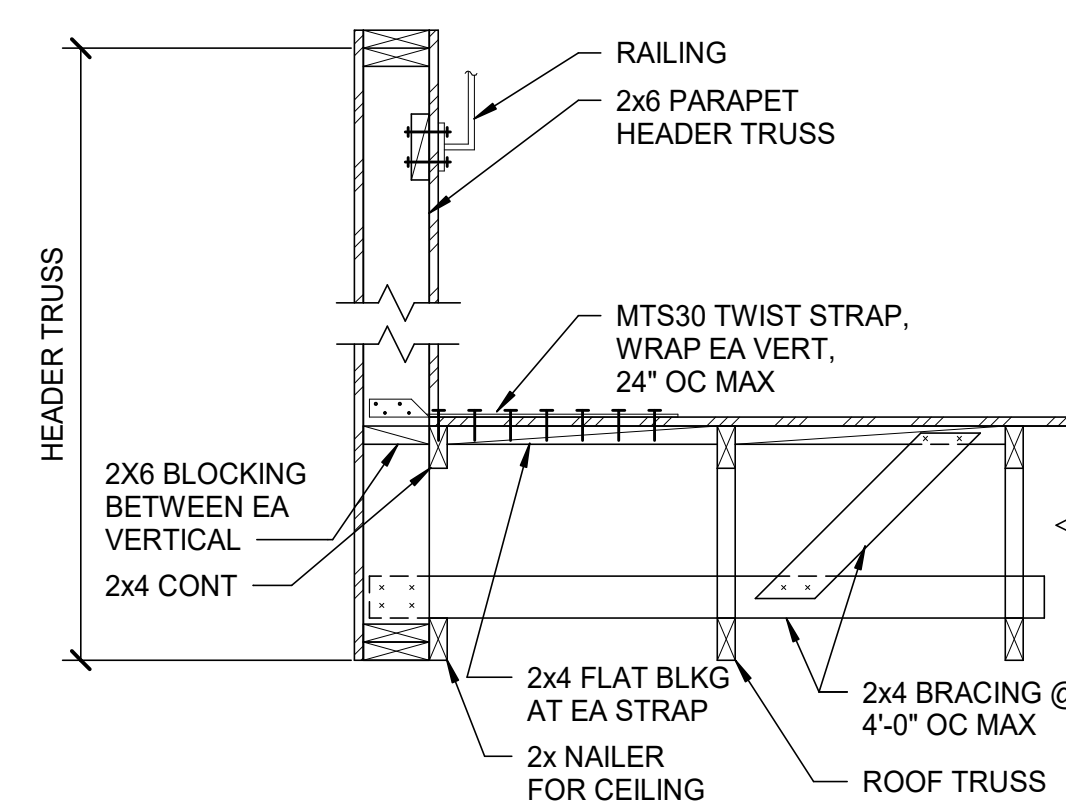
SCALE: 3/4" = 1'-0"



SECTION

6  
\$1,501

SCALE: 3/4" = 1'-0"

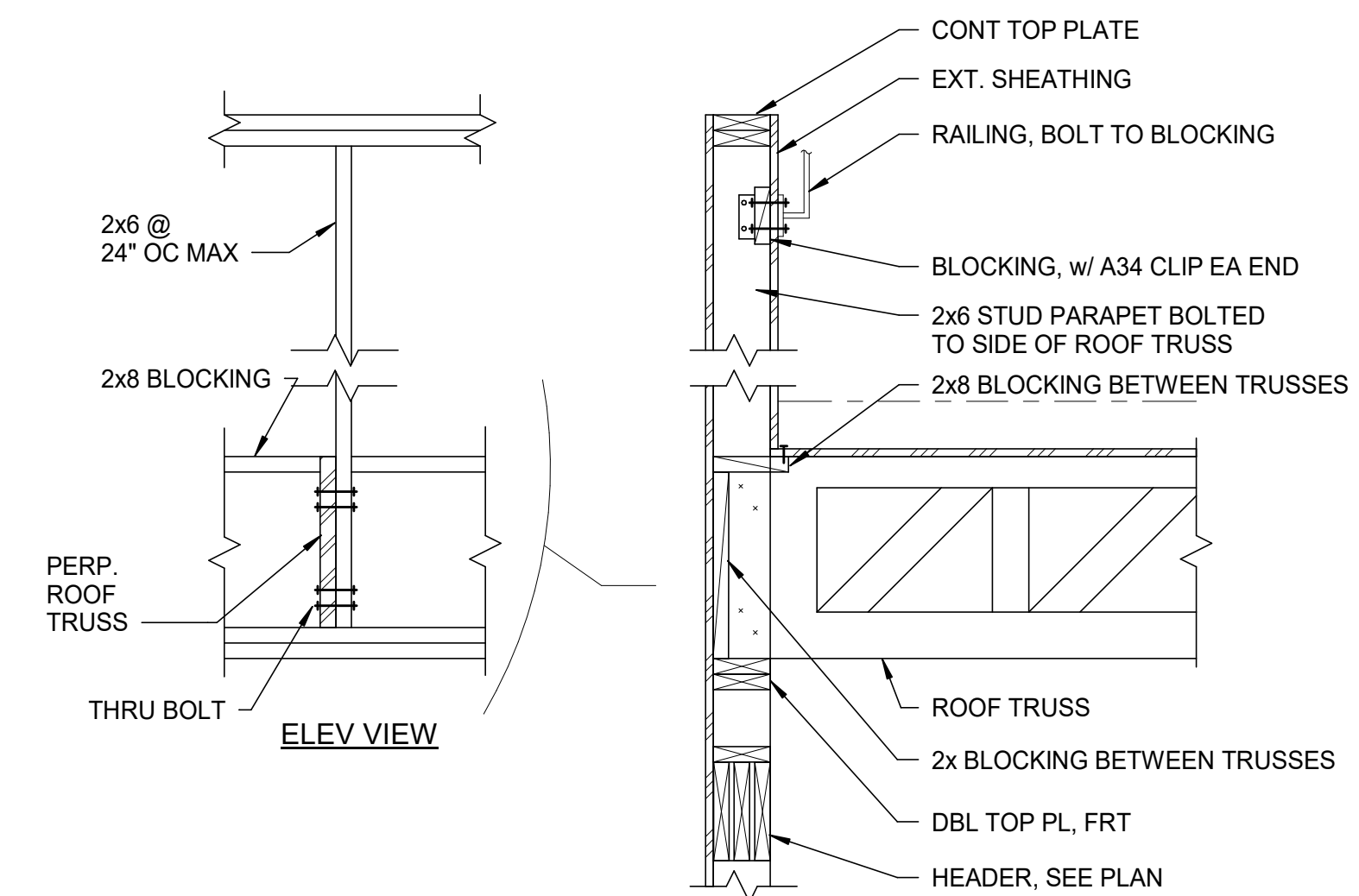


TYPICAL PARAPET DETAIL AT WINDOW HEADER  
PARALLEL TRUSS

SECTION

5  
\$1,501

SCALE: 3/4" = 1'-0"

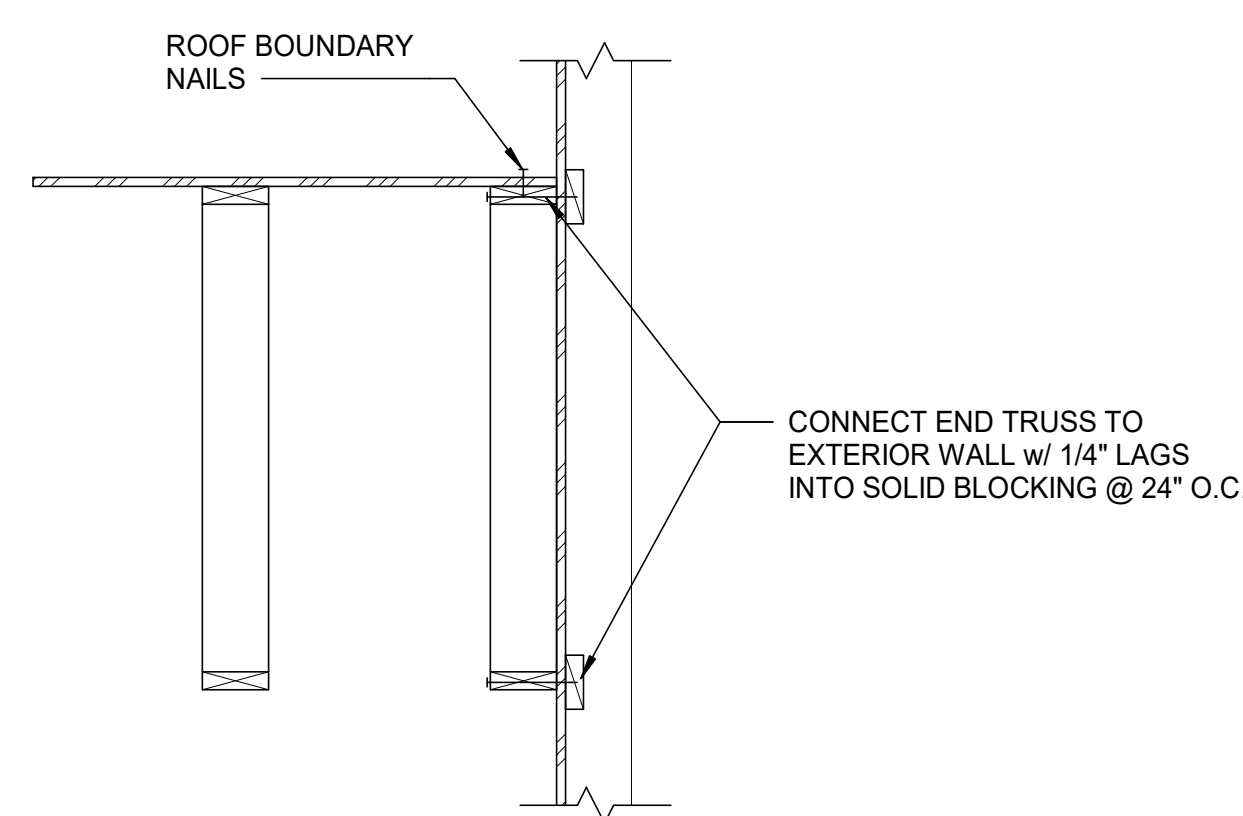


TYPICAL PARAPET DETAIL  
PERPENDICULAR TRUSS

SECTION

4  
\$1,501

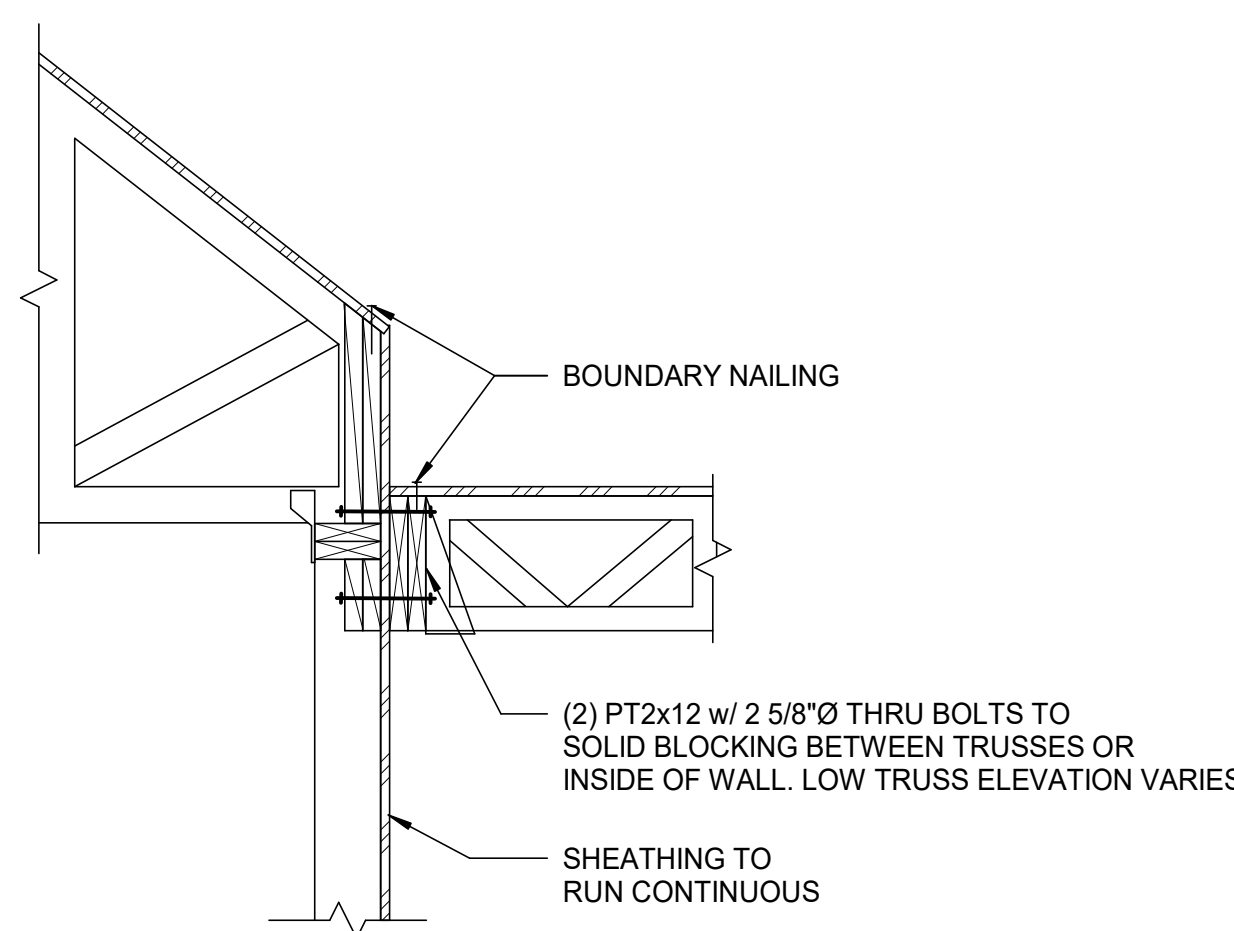
SCALE: 3/4" = 1'-0"



SECTION

10  
\$1,501

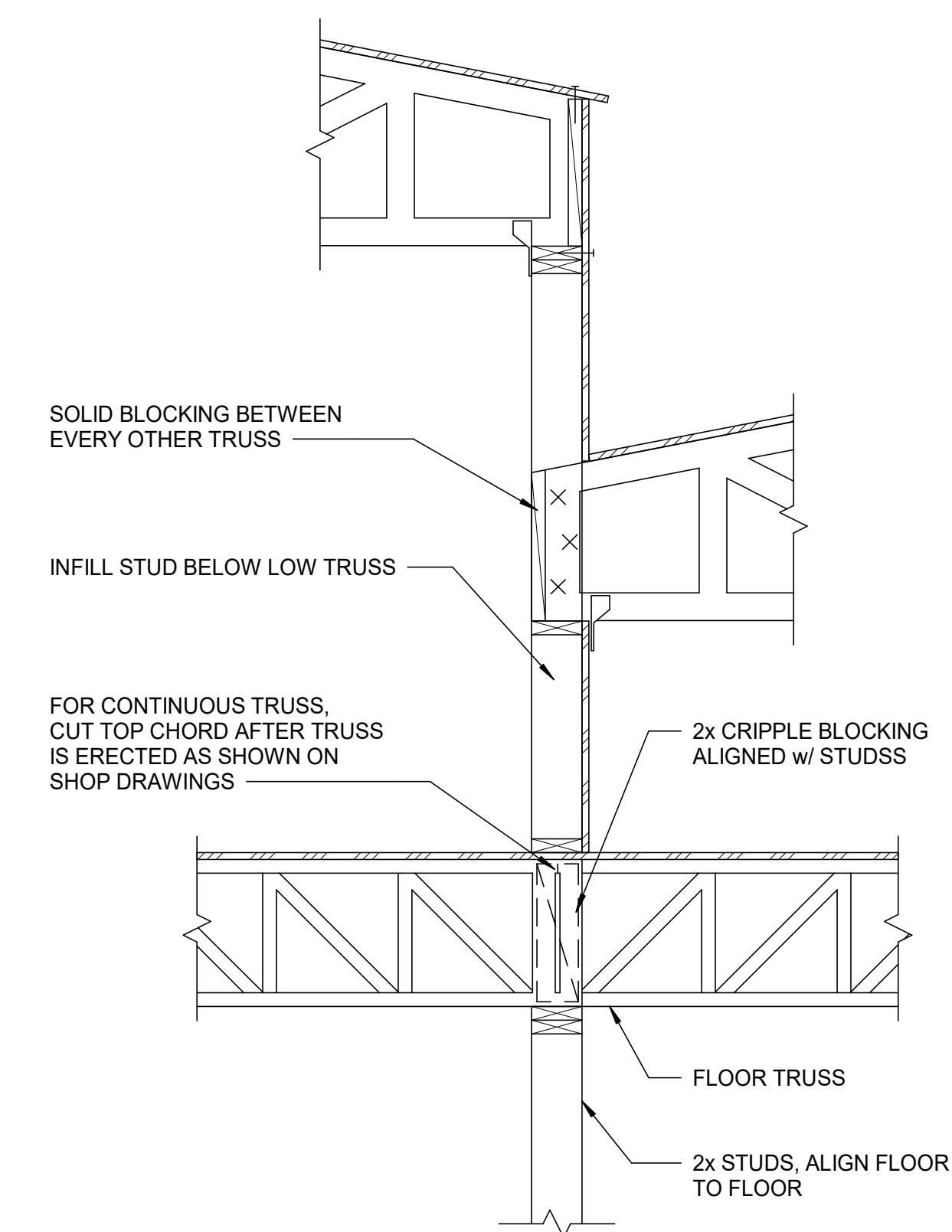
SCALE: 3/4" = 1'-0"



SECTION

9  
\$1,501

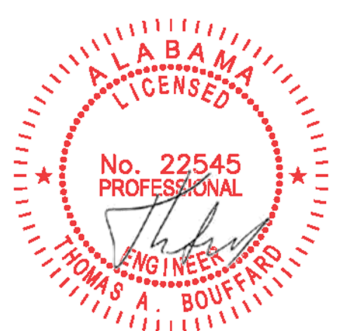
SCALE: 3/4" = 1'-0"



SECTION

8  
\$1,501

SCALE: 3/4" = 1'-0"



REVISIONS  
06/11/2021  
PERMIT

PERMIT SET

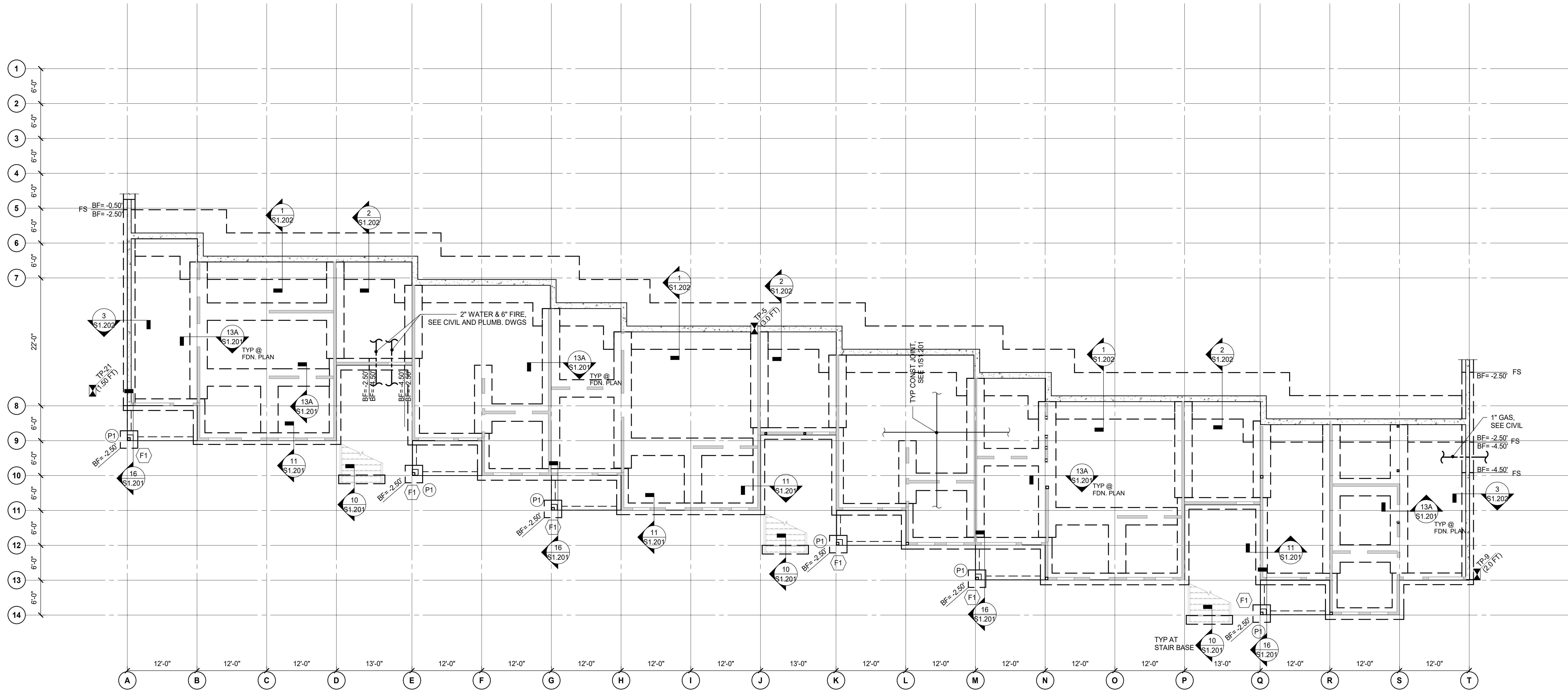
TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

06/11/2021

**\$1,501**  
WOOD ROOF FRAMING  
SECTIONS  
12/15/20  
**3** NORTH  
©2020

www.3north.com  
804 232 8900





FOUNDATION PLAN

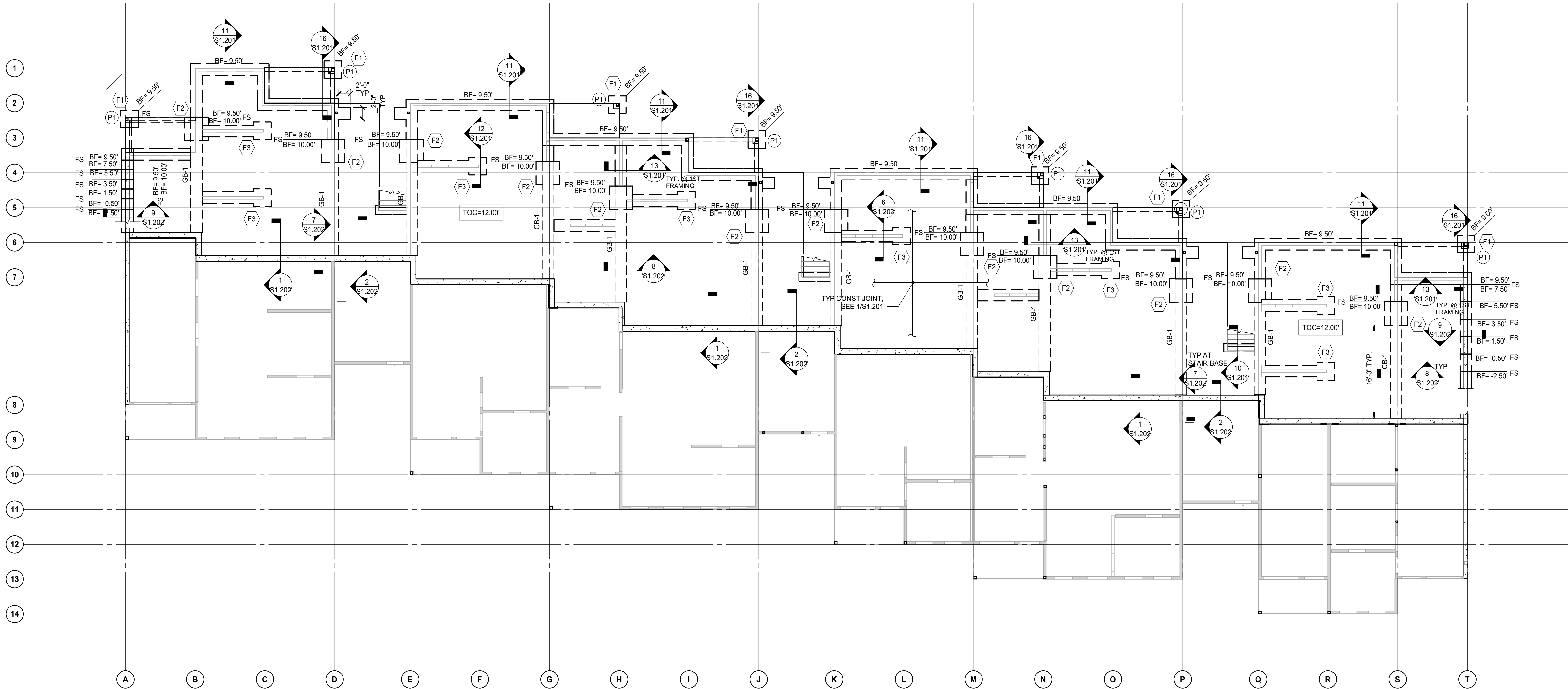
SCALE: 1/8" = 1'-0"

NOTES

1. REFERENCE BUILDING A1 DRAWINGS FOR BUILDING STRUCTURAL NOTES, SPECIAL INSPECTIONS, TYPICAL CONSTRUCTION, SECTIONS, DETAILS AND SCHEDULES.
2. TOP OF CONCRETE ELEVATION = 0.00' REFERENCE (ACTUAL ELEVATION= 1031.10')
3. REFER TO S1.100 ON BUILDING A1 FOR BALANCE OF PLAN NOTES NOT SHOWN.







LEVEL 1 FRAMING PLAN  
SCALE: 1/8" = 1'-0"

- NOTES
- SEE S2.100 FOR TYPICAL FOUNDATION NOTES.
  - TOP OF CONCRETE ELEVATION = 12.00' (REFERENCE EL = 1043.10')



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

**S2.101**  
LEVEL 1 FRAMING PLAN  
3 NORTH  
©2020

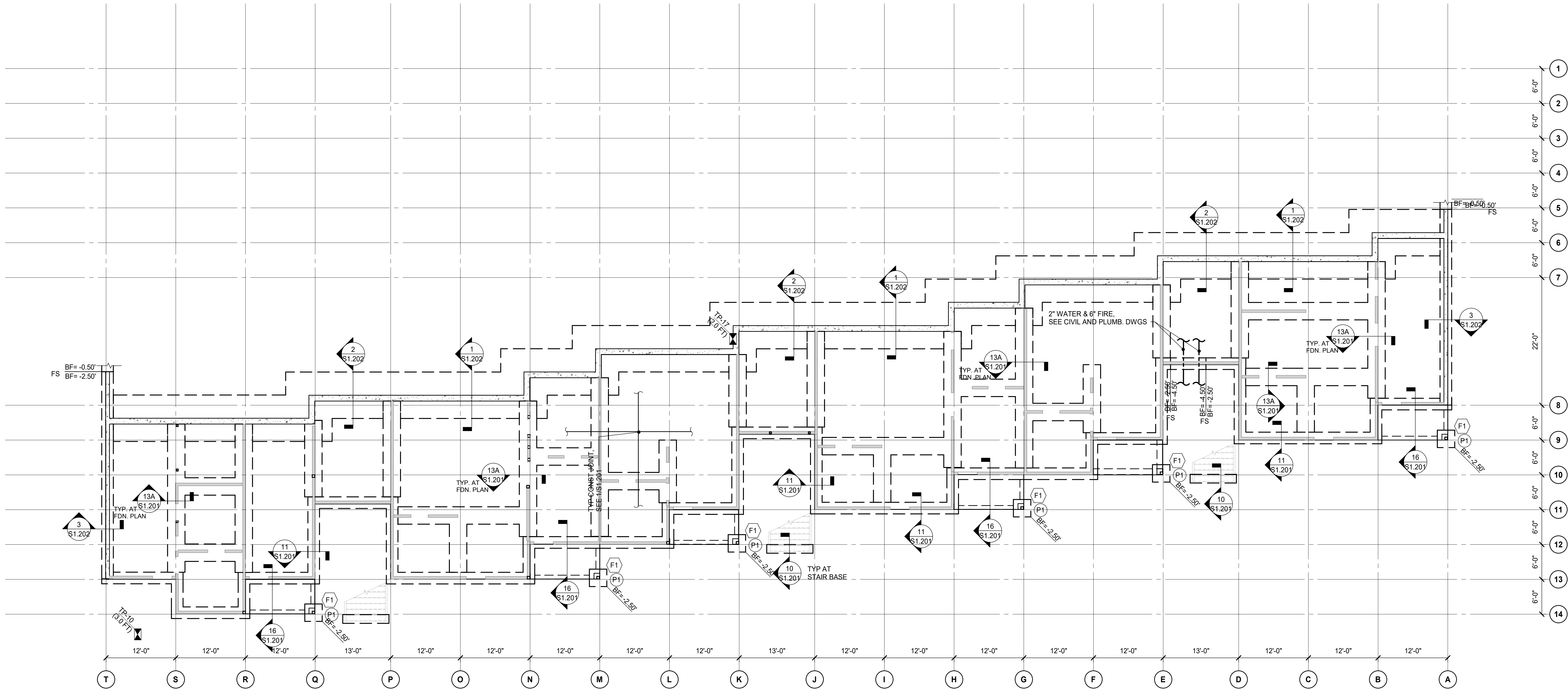
www.3north.com  
804 232 8900

REVISIONS  
PERMIT  
06/11/2021

PERMIT SET

06/11/2021





FOUNDATION PLAN

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

NOTES

1. REFERENCE BUILDING A1 DRAWINGS FOR BUILDING STRUCTURAL NOTES, SPECIAL INSPECTIONS, TYPICAL BUILDING CONSTRUCTION, SECTIONS, AND SCHEDULES.
2. TOP OF CONCRETE ELEVATION = 0.00' REFERENCE (ACTUAL ELEVATION= 1032.75')
3. REFER TO S1.100 ON BUILDING A1 FOR BALANCE OF PLAN NOTES NOT SHOWN.



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S3.100  
FOUNDATION PLAN  
3 NORTH  
©2020

www.3north.com  
804 232 8900

REVISIONS

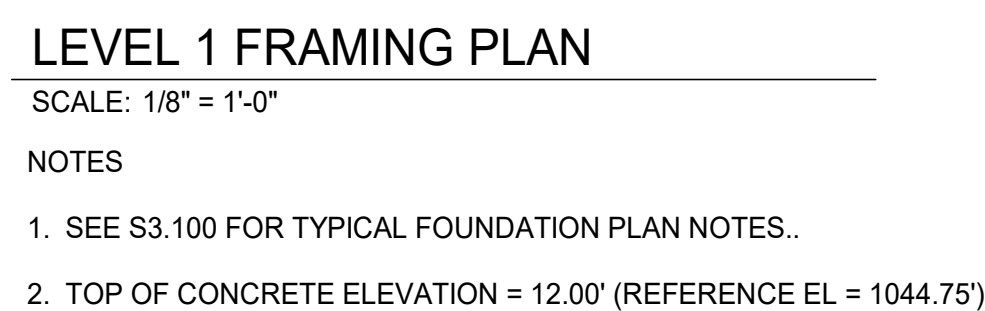
PERMIT

06/11/2021

06/11/2021

PERMIT SET





**S3.101**  
LEVEL 1 FRAMING PLAN



©2020

www.3north.com  
804 232 8900

**TERRACES AT HIGH MOUNTAIN**  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

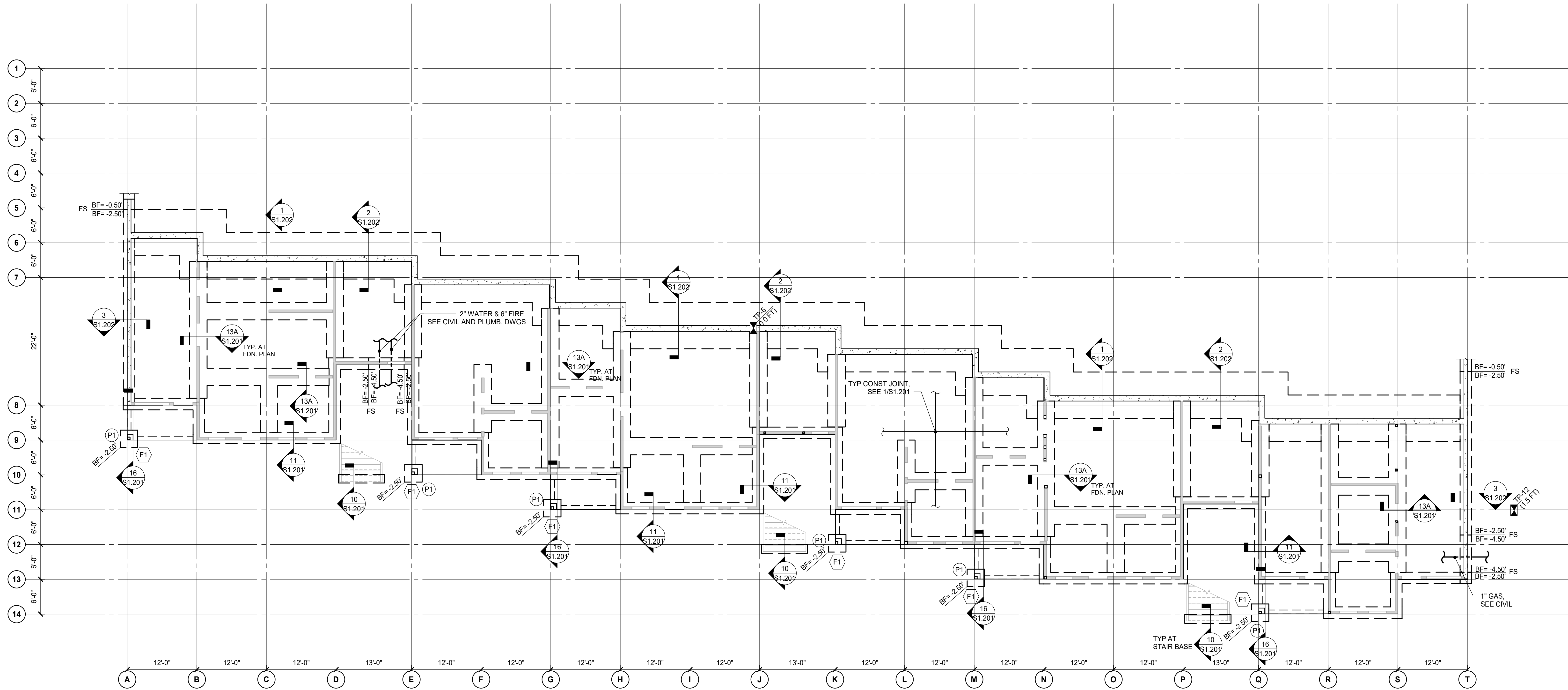
06/11/2021

PERMIT SET

REVISIONS

06/11/2021





FOUNDATION PLAN

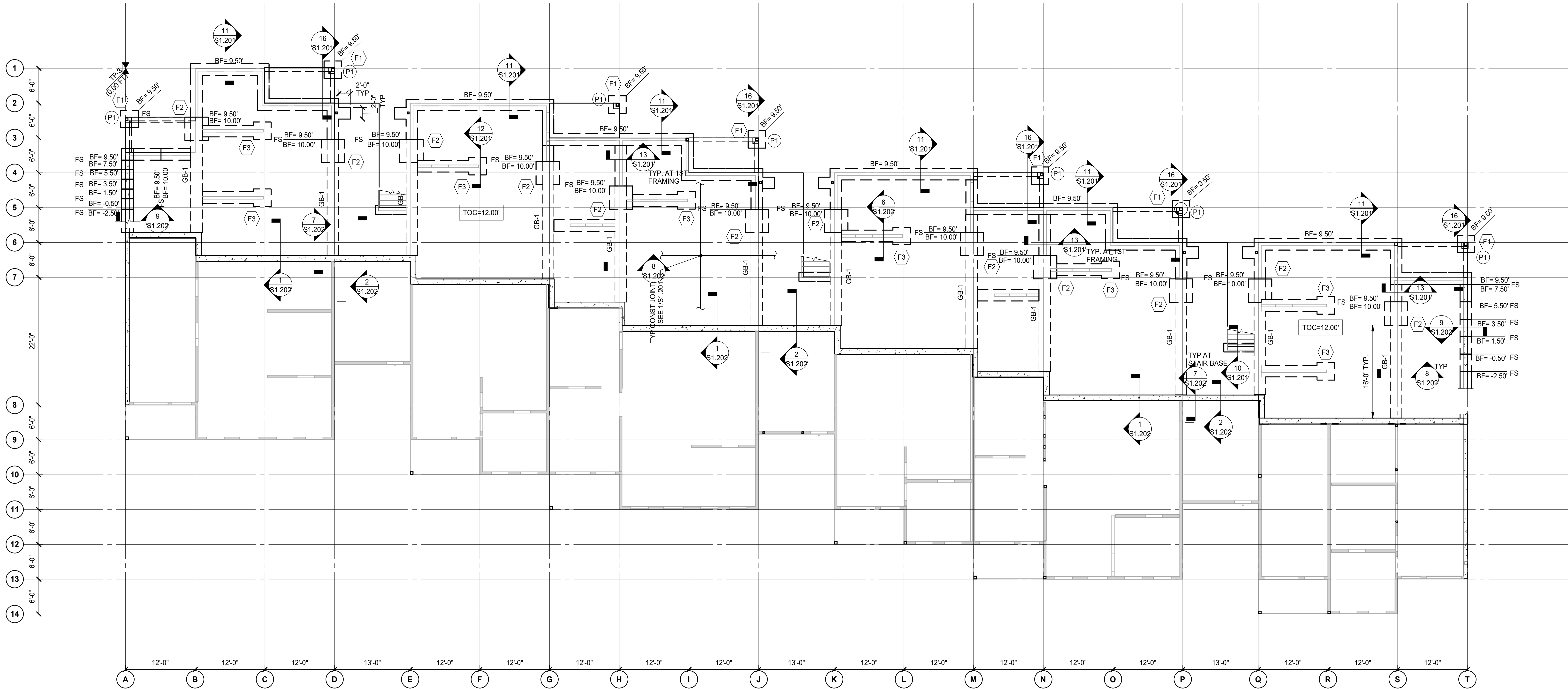
SCALE: 1/8" = 1'-0"

NOTES

1. REFERENCE BUILDING A1 DRAWINGS FOR BUILDING STRUCTURAL NOTES, SPECIAL INSPECTIONS, TYPICAL CONSTRUCTION, SECTIONS, DETAILS AND SCHEDULES.
2. TOP OF CONCRETE ELEVATION = 0.00' REFERENCE (ACTUAL ELEVATION= 1042.75')
3. REFER TO S1.100 ON BUILDING A1 FOR BALANCE OF PLAN NOTES NOT SHOWN.







LEVEL 1 FRAMING PLAN  
SCALE: 1/8" = 1'-0"

NOTES  
1. SEE S4.100 FOR TYPICAL FOUNDATION NOTES.  
2. TOP OF CONCRETE ELEVATION = 12.00' (REFERENCE EL = 1054.75')



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S4.101  
LEVEL 1 FRAMING PLAN  
3 NORTH  
©2020  
www.3north.com  
804 232 8900

REVISIONS  
PERMIT  
06/11/2021

PERMIT SET

06/11/2021



STRUCTURAL NOTES			
1. GENERAL			
A. THE BUILDING IS DESIGNED UNDER THE PROVISIONS OF THE 2015 INTERNATIONAL BUILDING CODE AND ASCE 7-10.			
B. THE FOLLOWING LOADS WERE USED IN THE DESIGN:			
BUILDING RISK CATEGORY	II		
FLOOR LIVE LOAD			
RESIDENTIAL UNITS	40 PSF		
UNIT INTERNAL STAIRS	40 PSF / 300 LB PT LOAD		
EXTERNAL EGRESS STAIRS	100 PSF / 300 LB PT LOAD		
PRIVATE BALCONIES	60 PSF		
ELEVATED CORRIDORS SERVING RESIDENTIAL UNITS	40 PSF		
PUBLIC AREAS	100 PSF		
NOTE: LIVE LOAD REDUCTION IS UTILIZED AS ALLOWED BY CODE			
ROOF LIVE LOAD			
MINIMUM UNIFORM ROOF LIVE LOAD	20 PSF / 300 PT LOAD		
ROOF SNOW LOAD			
GROUND SNOW LOAD (Pg)	10 PSF		
FLAT-ROOF SNOW LOAD (P <sub>f</sub> )	7 PSF		
RAIN-ON-SNOW SURCHARGE	5 PSF		
SNOW EXPOSURE FACTOR (C <sub>e</sub> )	1.0		
SNOW LOAD IMPORTANCE FACTOR (I <sub>s</sub> )	1.0		
THERMAL FACTOR (C <sub>t</sub> )	1.0		
WIND LOAD			
WIND SPEED (3-SECOND GUST)			
V <sub>ult</sub>	115 MPH		
V <sub>ref</sub> (0.77V <sub>ULT</sub> )	90 MPH		
WIND EXPOSURE	B		
INTERNAL PRESSURE COEFFICIENT	+0.18, -0.18		
COMPONENTS AND CLADDING WIND LOAD			
EFFECTIVE WIND AREA	ZONE	PRESSURE	
10 FT x2	4	+24.1 PSF	
10 FT x2	4	-26.1 PSF	
10 FT x2	5	+24.1 PSF	
10 FT x2	5	-32.1 PSF	
EARTHQUAKE DESIGN			
SEISMIC IMPORTANCE FACTOR (I <sub>e</sub> )	1.00		
SEISMIC DESIGN CATEGORY	C		
SITE CLASSIFICATION	D		
SEISMIC RESPONSE COEFFICIENTS			
S <sub>s</sub>	0.258		
S <sub>1</sub>	0.120		
S <sub>ds</sub>	0.274		
S <sub>d1</sub>	0.186		
DESIGN BASE SHEAR	30 KIPS		
SEISMIC-FORCE RESISTING SYSTEM PER			
ASCE 7-10 TABLE 12.2-1	TYPE A15		
R	6.5		
C <sub>d</sub>	4		
C <sub>s</sub>	0.042		
TL	12		
ANALYSIS METHOD	ELFP		
HANDRAIL AND GUARD LOADS			
HANDRAIL AND GUARD	50 PLF / 200 LB PT LOAD		
INTERMEDIATE RAIL	50 LB PT LOAD		
C. SEE ARCHITECTURAL DRAWINGS FOR ANGLES, CLIPS, PLATES, ETC., AND OTHER MISCELLANEOUS ITEMS. VERIFY AND COORDINATE ALL FRAMES, OPENINGS, ETC. WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS.			
D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING ITEMS. SUBMITTALS INCLUDE BUT MAY NOT BE LIMITED TO:			
--CONCRETE MIX DESIGN			
--REINFORCING STEEL			
--STRUCTURAL STEEL			
--PRE-ENGINEERED BUILDING COMPONENTS			
--WOOD TRUSSES			
--STEEL STAIRS			
DO NOT USE CONTRACT DRAWINGS AS A BASE FOR SHOPS. REVIEW IS LIMITED TO DESIGN CONFORMANCE. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS.			
E. CONTRACTOR SHALL COORDINATE WITH THE QUALIFIED AGENCY RETAINED BY THE OWNER TO PERFORM INSPECTION AND TESTING. INSPECTIONS REQUIRED INCLUDE, BUT MAY NOT BE LIMITED TO:			
--SOILS AND FOUNDATIONS			
--CONCRETE			
--STRUCTURAL STEEL			
--MASONRY			
2. EARTHWORK			
A. FOUNDATIONS ARE DESIGNED TO BEAR ON ENGINEERED FILL OR NATURAL SOIL WITH A CAPACITY OF 2,000 PSF, BASED ON RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY OMI, INC. DATED 12/31/2020. THIS VALUE IS TO BE VERIFIED IN THE FIELD BY THE BUILDING INSPECTOR OR A QUALIFIED TESTING AGENCY.			
B. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2 FOOT-0 INCH BELOW FINISH EXTERIOR GRADE. WHERE REQUIRED, STEP FOOTINGS IN RATIO OF 2 HORIZONTAL TO 1 VERTICAL.			
C. COMPACTED BACKFILL BELOW BUILDING SLABS AND FOOTINGS: ALL SOIL FILL MATERIAL MUST BE APPROVED BY SOILS ENGINEER PRIOR TO PLACEMENT. PROOFROLL SUBGRADE REMOVING AND REPLACING SOFT OR COMPRESSIVE MATERIALS. FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 6 INCHES AND COMPACTED TO MIN. 95 PERCENT OF THE DRY MAXIMUM DENSITY AS DETERMINED BY ASTM D698.			
D. AT ROCKY AREAS AROUND AND BELOW EL 1055 FT MSL: ROCK LEDGES, PINNACLES OR BOULDERS, IF ENCOUNTERED WITH THE PROPOSED FOUNDATION SYSTEM, SHALL BE REMOVED BY BLASTING, RIPPING OR HOE RAMMING PER THE GEOTECHNICAL REPORT. ONCE THE AREA HAS BEEN EXCAVATED, A MINIMUM 1 FOOT LAYER OF #2 STONE SHALL BE PLACED ACROSS THE AREA. THE #2 STONE SHALL BE CAPPED WITH A 6" LAYER OF "CRUSHER RUN" (1.5" TO DUST, STONE). SUBSEQUENT LAYERS OF ENGINEERED FILL SHALL THEN BE PLACED TO BUILDING PAD ELEVATIONS, BELOW THE 4" #57 UNDERSLAB BASE.			
E. AT SOIL AREAS AROUND AND ABOVE EL 1062 FT MSL: AREAS APPROXIMATELY AT BUILDING PAD EL. AND AREAS THAT WILL RECEIVE ENGINEERED FILL SHALL BE OBSERVED BY THE GER PRIOR TO PLACING THE 1 FOOT LAYER OF #2 STONE AND 6" CAP OF CRUSHER RUN. SUBSEQUENT LAYERS OF ENGINEERED FILL SHALL THEN BE PLACED TO BUILDING PAD ELEVATIONS, BELOW THE 4" #57 UNDERSLAB BASE.			
3. CONCRETE			
A. CONCRETE CONSTRUCTION SHALL BE PER THE APPLICABLE BUILDING CODE, ACI 318 AND ACI 301, LATEST EDITIONS.			
B. CONCRETE SHALL ATTAIN THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS PER ASTM A39.			
--FOOTINGS, PIERS	3,000 PSI		
--SLAB-ON-GRADE	3,500 PSI		
--RETAINING WALLS	4,000 PSI		
C. VERIFY CONCRETE STRENGTHS WITH A MINIMUM OF ONE SET OF NINE 4X8-INCH COMPRESSION CYLINDERS, (3 @ 7 DAYS, 3 @ 28, 3 SPARE).			
D. EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED TO PROVIDE AN AIR CONTENT OF 6+/-1.5 PERCENT BY VOLUME.			
E. PROVIDE CLEAR DISTANCE TO OUTERMOST REINFORCING AS FOLLOWS:			
CONCRETE CAST AGAINST EARTH	3 INCHES		
CONCRETE EXPOSED TO EARTH OR WEATHER:			
#5 OR SMALLER	1-1/2 INCHES		
#6 OR LARGER	2 INCHES		
F. NON-SHRINK GROUT FOR COLUMNS BASE PLATES SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH: F <sub>c</sub> = 5,000 PSI.			
G. REINFORCING STEEL SHALL CONFORM TO A615-GR60; MESH SHALL CONFORM TO ASTM A185 WITH MINIMUM LAPS OF 8 INCHES. PLACING PLANS AND SHOP FABRICATION DETAILS SHALL BE IN ACCORDANCE WITH "THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES". FURNISH SUPPORT BARS AND ACCESSORIES IN ACCORDANCE WITH C.R.S.I. STANDARDS.			
H. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING IN WALLS AND FOOTINGS. SPLICE LAPS SHALL BE A MINIMUM OF 36 BAR DIAMETERS, UNLESS NOTED OTHERWISE. PROVIDE DOWELS BETWEEN FOOTINGS AND WALLS OR PIERS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.			
I. WALLS WITH LATERAL EARTH PRESSURES SHALL BE ADEQUATELY SHORED OR FLOOR/ROOF CONSTRUCTION SHALL BE IN PLACE AND SECURED PRIOR TO BACKFILLING.			
J. INSTALLATION OF ELECTRICAL CONDUIT WITHIN THE CONCRETE SLAB-ON-GRADE IS PROHIBITED.			

4. MASONRY			
A. MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" TMS 402/ACI-530/ASCE 5 AND THE "SPECIFICATIONS FOR MASONRY STRUCTURES" TMS 602/ACI-530.1/ASCE 6, LATEST EDITIONS.			
B. MASONRY TO CONFORM TO THE FOLLOWING SPECIFICATIONS:			
HOLLOW LOAD-BEARING C.M.U	ASTM C90		
CONCRETE BUILDING BRICK	ASTM C55, GRADE A		
MORTAR	ASTM C270, TYPE M OR S		
GROUT	ASTM C476		
C. MASONRY ASSEMBLIES SHALL HAVE COMPRESSIVE STRENGTH (F <sub>m</sub> ) GREATER THAN OR EQUAL TO 2000 PSI.			
D. WALLS SHALL BE CONSTRUCTED USING A FULL BED OF MORTAR. VERTICAL REINFORCING SHALL BE GROUTED IN PLACE WITH 2500 PSI GROUT (GROUT SLUMP SHALL FALL BETWEEN 8 AND 11 INCHES) FOUR HEIGHT AND LIFT HEIGHT SHALL NOT EXCEED 5 FEET - 0 INCHES.			
E. PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCING IN MASONRY WALLS AT 16 INCHES O.C. PROVIDE AT 8 INCHES O.C. AT PARAPETS.			
F. CAVITY WALLS OF BRICK AND BLOCK SHALL BE CONSTRUCTED WITH JOINT REINFORCING IN MASONRY AND ADJUSTABLE METAL ANCHORS TO BRICK.			
G. UNLESS NOTED OTHERWISE, PROVIDE 16 INCH LONG BY 24 INCHES HIGH SOLID OR GROUTED BLOCK UNDER BEARING ENDS OF BEAMS.			
H. PROVIDE 48 INCH REINFORCEMENT LAP AT CONTINUOUS BOND BEAM STEPS.			
I. COMPOSITE WALLS SHALL HAVE THE COLLAR JOINT BETWEEN BRICK AND BLOCK GROUTED SOLID AND THE WALLS SHALL BE BUILT WITH BOTH WYTHES SIMULTANEOUSLY.			
J. MASONRY WALLS SHALL HAVE CONTROL JOINTS AT 30 FEET ON CENTER UNLESS NOTED OTHERWISE.			
K. REINFORCING STEEL SHALL CONFORM TO ASTM A615-GR60. LAP BARS A MINIMUM OF 48 BAR DIAMETERS. GROUT ALL REINFORCED CORES SOLID.			
L. UNLESS SHOWN ON PLAN, LINTELS FOR MASONRY WALLS SHALL BE AS FOLLOWS:			
OPENINGS TO 3 FT, 0 IN	3-1/2 X 3-1/2 X 1/4		
3 FT, 1 IN TO 5 FT, 0 IN	4 X 3-1/2 X 5/16 - 3-1/2 HORIZONTAL		
5 FT, 1 IN TO 6 FT, 6 IN	5 X 3-1/2 X 5/16 - 3-1/2 HORIZONTAL		
OVER 6 FT, 6 IN	CONSULT ARCHITECT/ENGINEER		
M. PROVIDE TWO-PIECE ADJUSTABLE ANCHORS TO MASONRY AT A MAXIMUM SPACING OF 24 INCHES O.C. AT ALL VERTICAL AND HORIZONTAL STRUCTURAL STEEL MEMBERS.			
N. CAVITY WALLS OF BRICK WITH STUD BACKUP SHALL BE CONSTRUCTED WITH TWO-PIECE ADJUSTABLE METAL ANCHORS AT A MAXIMUM SPACING OF 16 INCHES O.C. HORIZONTAL (INTO STUDS) AND 24 INCHES O.C. VERTICAL. AT BRICK WALLS OVER 30 FEET HIGH, PROVIDE ANCHORS AT 16 INCHES O.C. HORIZONTAL AND VERTICAL.			
O. ALL NON-LOADBEARING MASONRY WALLS SHALL BE PROVIDED WITH VERTICAL SLIP CONNECTIONS AT THE TOP OF THE WALL, U.N.O.			
5. STEEL			
A. STEEL CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND SHALL CONFORM TO AISC 360. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:			
WIDE FLANGE SHAPES	A992 -- GR50		
STEEL PLATES, CHANNELS AND ANGLES	A36		
STRUCTURAL PIPES	A53 -- GR B		
STRUCTURAL RECT/ROUND (HSS)	A500 -- GR B		
ANCHOR RODS (3/4" DIAM. OR LESS)	F1554 -- 36 KSI		
ANCHOR RODS (7/8" DIAM. OR GREATER)	F1554 -- 55 KSI		
HIGH-STRENGTH BOLTS	A325		
HEADED STUDS	A108		
B. BOLTED CONNECTIONS TO USE A325-TYPE N, HIGH STRENGTH BOLTS IN BEARING TYPE CONNECTIONS TIGHTENED TO A SNUG TIGHT CONDITION IN ACCORDANCE WITH RCSC SPECIFICATIONS.			
C. SHOP CONNECTIONS TO BE WELDED OR BOLTED. FIELD CONNECTIONS TO BE BOLTED UNLESS OTHERWISE SHOWN. BOLT HOLES TO BE STANDARD ROUND HOLES (d+1/16 INCHES) UNLESS OTHERWISE NOTED. SHORT SLOTS SHALL BE PERMITTED NORMAL TO THE LOAD DIRECTION IN SLIP CRITICAL AND BEARING TYPE CONNECTIONS AS PER AISC REQUIREMENTS.			
D. IF BEAM REACTIONS ARE DENOTED ON THE DRAWINGS, BEAM-WEB CONNECTIONS FOR SHEAR AT EACH END SHALL BE DETAILED TO SUPPORT THE LOADS SHOWN OR PROVIDE THE FOLLOWING MINIMUM NUMBER OF BOLTS, WHICHEVER IS GREATER. STIFFENED SEATS SHALL BE DETAILED TO SUPPORT THE LOADS SHOWN ON THE DRAWINGS OR THE MINIMUM FACTORED LOADS INDICATED BELOW, WHICHEVER IS GREATER.			
W8 OR W10	BEAM/WEB	STIFF. SEAT	
W12 OR W14	3 BOLTS	30K	
W16 OR W18	4 BOLTS	40K	
W21 OR W24	5 BOLTS	60K	
E. STRUCTURAL STEEL SHALL BE GIVEN ONE SHOP COAT OF APPROVED SHOP PRIMER APPLIED TO CLEAN AND DRY SURFACES. DO NOT PAINT STEEL THAT WILL BE FIREPROOFED OR EMBEDDED IN CONCRETE.			
F. STEEL BEAMS SHALL BE WELDED TO STEEL BEARING PLATES WITH 3 INCH LONG BY 1/4-INCH FILLET WELD EACH SIDE OF FLANGE (MINIMUM).			
G. WELDING OF STRUCTURAL STEEL SHALL BE WITH E70XX ELECTRODES.			
H. STEEL FLITCH BEAMS SHALL BE CONNECTED WITH 1/2" DIAMETER THROUGH BOLTS @ 16" O.C. WITH THE FIRST ROW OF BOLTS 6" FROM EACH END. SEE SCHEDULE ON S5.401.			
6. WOOD FRAMING (CONVENTIONAL/TYPE V)			
A. FRAMING LUMBER FOR STUDS, HEADERS AND JOISTS SHALL BE HEM FIR #2, SPRUCE-PINE-FIR (SPF) #2, OR BETTER, WITH A MAXIMUM MOISTURE CONTENT OF 19-PERCENT, HAVING THE FOLLOWING MINIMUM PROPERTIES (BASED ON 2X12 MEMBERS):			
BENDING STRESS "F <sub>b</sub> "	= 850 PSI FOR SINGLE MEMBER USE		
HORIZONTAL SHEAR "F <sub>v</sub> "	= 135 PSI		
COMPRESSION PERPENDICULAR TO GRAIN "F <sub>c</sub> "	= 405 PSI		
COMPRESSION PARALLEL TO GRAIN "F <sub>c11</sub> "	= 1,150 PSI		
MODULUS OF ELASTICITY "E"	= 1,300,000 PSI		
NOTE: SPF (SOUTH) IS NOT ACCEPTABLE.			
B. ALL EXPOSED EXTERIOR FRAMING AND FRAMING IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE-TREATED (PT). FRAMING SHALL BE PRESSURE-TREATED WITH ALKALINE COPPER QUAT (ACQ) OR COPPER AZOLTE (CBA-A AND CA-B), NOT SODIUM BORATE (SBX). PT LUMBER SHALL NOT BE INCISED.			
C. STRUCTURAL POSTS AND TREATED LUMBER (PT) SHALL BE SOUTHERN PINE (SP) #2 OR BETTER, HAVING THE FOLLOWING MINIMUM PROPERTIES (BASED ON 2X12 MEMBERS):			
STRENGTH			
BENDING STRESS "F <sub>b</sub> "	= 750 PSI SINGLE MEMBER USE		
HORIZONTAL SHEAR "F <sub>v</sub> "	= 175 PSI		
COMPRESSION PERPENDICULAR TO GRAIN "F <sub>c</sub> "	= 565 PSI		
COMPRESSION PARALLEL TO GRAIN "F <sub>c11</sub> "	= 2,250 PSI		
MODULUS OF ELASTICITY "E"	= 1,400,000 PSI		
D. LAMINATED VENEER LUMBER (LVL OR MICROLAM) BEAMS SHALL CONFORM TO ASTM D 5456 AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES (BASED ON 1-3/4 X 11-7/8 MEMBERS):			
BENDING STRESS "F <sub>b</sub> "	= 2600 PSI		
HORIZONTAL SHEAR "F <sub>v</sub> "	= 285 PSI		
MODULUS OF ELASTICITY "E"	= 2,000,000 PSI		
BEARING STRESS "F <sub>PERP</sub> "	= 750 PSI		
EQUIV SPECIFIC GRAVITY FOR CONNECTION DESIGN=	0.50		
E. PARALLEL STRAND LUMBER (PSL) COLUMNS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:			
BENDING STRESS "F <sub>b</sub> "	= 2,400 PSI		
HORIZONTAL SHEAR "F <sub>v</sub> "	= 190 PSI		
COMPRESSION PARALLEL TO GRAIN "F <sub>c11</sub> "	= 2,500 PSI		
MODULUS OF ELASTICITY "E"	= 1,800,000 PSI		
F. AT EXTERIOR WALLS, PROVIDE SOLID BLOCKING AT 4 FEET ON CENTER BETWEEN BAND JOIST AND FIRST INTERIOR PARALLEL JOIST.			
G. PREFABRICATED JOIST HANGERS, BEAM HANGERS, POST CAPS, AND POST BASES SHALL BE SIZED AND ATTACHED PER MANUFACTURER'S RECOMMENDATIONS, TO ACHIEVE AT LEAST THE MINIMUM MANUFACTURER LISTED CAPACITIES, UNO ON THE DRAWINGS. FASTENERS AND CONNECTORS UTILIZED WITH TREATED LUMBER (PT OR FRT) SHALL MEET G185 HOT-DIPPED GALVANIZING.			

H. ANCHOR BOLTS CONNECTING PRESSURE-TREATED WOOD PLATES TO FOUNDATIONS, MASONRY WALLS, OR CONCRETE SLABS SHALL BE HOT-DIPPED GALVANIZED.

I. BUILT-UP STUD COLUMNS SHALL HAVE ONE JACK STUD AND THE REMAINING STUDS SHALL BE KING STUDS. MULTIPLE STUDS SHALL BE NAILED WITH 10D NAILS AT 8 INCHES O.C. PROVIDE SOLID BLOCKING OR CRIPPLE STUDS IN FLOOR SYSTEM AT ALL POINT LOADS ABOVE.

J. FREESTANDING POSTS SHALL HAVE PREFAB POSTCAP AND BASE. POSTS WITHIN WALL NEED ONLY HAVE PREFAB CAP ATTACHED TO BEAM, UNO. POSTS WITHIN WALL BEARING ON MASONRY OR CONCRETE SHALL HAVE PREFAB BASE, UNO.

K. STANDARD MEMBER CONNECTIONS SHALL BE PER FASTENING SCHEDULE IN SECTION 23 OF THE INTERNATIONAL BUILDING CODE (IBC), UNO.

L. STUD BEARING WALLS TO BE PROVIDED WITH 2 CONTINUOUS TOP PLATES AND 1 CONTINUOUS BOTTOM PLATE WITH A MINIMUM OF ONE ROW OF HORIZONTAL BRIDGING AT MID-HEIGHT OF WALL UNLESS NOTED OTHERWISE. SPLICES OF TOP PLATES SHALL OCCUR OVER STUD AND SHALL BE STAGGERED A MINIMUM OF FOUR FEET.

M. NAILS FOR FRAMING AND SHEATHING CONNECTIONS SPECIFIED IN THE DRAWINGS AND ASSOCIATED NOTES SHALL CONFORM TO ASTM F1667 AND SHALL MEET THE FOLLOWING MINIMUM SIZE REQUIREMENTS:

	TYPE	DIAMETER x LENGTH
8d	0.131" x 2-1/2"	
10d	0.148" x 3"	
12d	0.148" x 3-1/4"	
16d	0.162" x 3-1/2"	
20d	0.192" x 4"	

SHANK DIAMETER	MINIMUM STRENGTH
0.099 TO 0.142"	100 KSI
0.143 TO 0.177"	90 KSI
0.178 TO 0.254"	80 KSI

NOTE: NAILS USED IN STANDARD CONNECTIONS SHALL BE SIZED PER THE REQUIREMENTS OF THE BUILDING CODE.

N. ROOF MEMBERS SHALL BE CONNECTED AT EACH BEARING POINT WITH ONE PREFABRICATED GALVANIZED METAL ANCHOR. ANCHORS SHALL BE 18 GAGE MINIMUM AND SHALL BE ATTACHED TO HAVE A CAPACITY TO RESIST A 450# UPLIFT LOADING, UNLESS SHOWN OTHERWISE ON DRAWINGS.

P. THE MINIMUM DEPTH AND MAXIMUM SPACING OF WOOD TRUSSES IS SHOWN ON DRAWINGS. THE SUPPLIER SHALL ADJUST SPACING AS REQUIRED TO MEET THE LOADINGS DESIGNATED ON THE DRAWING.

Q. PROVIDE LSL BAND BOARD IN WOOD TRUSS SYSTEMS AT ALL PERIMETER BEARING WALLS. ALTERNATIVELY, PROVIDE 2-3/4 INCH PLYWOOD BANDS GLUED AND SCREWED TOGETHER. PROVIDE SQUASH BLOCKS AND STIFFENERS AS REQUIRED TO DISTRIBUTE LOADINGS AND AS REQUIRED BY MANUFACTURER. PROVIDE SOLID BLOCKING AT INTERIOR JOIST SUPPORTS WITH BEARING WALLS ABOVE.

R. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS.

S. PREFABRICATED TRUSSES SHALL BE DESIGNED FOR THE LOADS SCHEDULED ON THE DRAWINGS. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW. THE DESIGN OF THE BRACING REQUIRED TO LATERALLY STABILIZE THE TRUSSES AND TRUSS MEMBERS SHALL BE THE RESPONSIBILITY OF THE SPECIALTY TRUSS ENGINEER. AFFIX SEAL OF ENGINEER REGISTERED IN THE STATE OF THE PROPOSED PROJECT. TEMPORARY BRACING DURING ERECTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

7. SHEATHING

A. FLOOR SHEATHING SHALL BE 23/32 (3/4) INCH APA RATED STURD-I (COMBINATION SUBFLOOR-UNDERLAYMENT) WOOD STRUCTURAL PANEL, TONGUE AND GROOVE, WITH A SPAN RATING OF 48/24. PANELS SHALL HAVE LONG DIMENSION ORIENTED ACROSS THREE OR MORE JOISTS AND SHALL BE FASTENED WITH CONSTRUCTION ADHESIVE AND NAILS AT PANEL EDGES AND INTERMEDIATE SUPPORTS AS SCHEDULED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, PANEL EDGES NEED NOT BE BLOCKED. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

B. EXTERIOR SHEATHING SHALL BE 7/16 (1/2) INCH THICK APA RATED WOOD STRUCTURAL PANELS U.N.O. AS SHEAR WALL. FASTEN PANELS TO STUDS WITH 8D NAILS AT 6 INCHES ON CENTER AT PANEL EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. UNLESS NOTED OTHERWISE, PANEL EDGES NEED NOT BE BLOCKED. IF EXTERIOR WALLS ARE DENOTED AS SHEAR WALLS, THEY SHALL BE SHEATHED, FASTENED AND BLOCKED AS SCHEDULED ON THE DRAWINGS.

C. SHEARWALLS SHALL BE SHEATHED, FASTENED AND BLOCKED AS SCHEDULED ON THE DRAWINGS.

D. ROOF SHEATHING SHALL BE 23/32 (3/4) INCH APA RATED WOOD STRUCTURAL PANEL, TONGUE AND GROOVE, WITH A SPAN RATING OF 48/24. PANELS SHALL HAVE LONG DIMENSION ORIENTED ACROSS THREE OR MORE JOISTS AND SHALL BE FASTENED WITH CONSTRUCTION ADHESIVE AND NAILS AT PANEL EDGES AND INTERMEDIATE SUPPORTS AS SCHEDULED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, PANEL EDGES NEED NOT BE BLOCKED.

8. POST-INSTALLED ANCHORS IN CONCRETE AND MASONRY

A. GENERAL

INSTALL ANCHORS IN STRICT CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ALL POST-INSTALLED ANCHORS IN CONCRETE SHALL HAVE ICC APPROVAL FOR USE IN CRACKED CONCRETE.

SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE SUBMITTED FOR APPROVAL PRIOR TO USE. CONTRACTOR SHALL PROVIDE DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT.

PROVIDE STAINLESS STEEL FASTENERS FOR EXTERIOR USE OR WHEN PERMANENTLY EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.

B. PRODUCTS

ANCHORS IN CONCRETE:

- EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ.
- UNDERCUT ANCHORS SHALL BE HILTI HDA.
- SCREW ANCHORS SHALL BE HILTI HIT-HUS.
- ADHESIVE ANCHORS SHALL BE HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HIT-Z ROD OR WITH HILTI HOLLOW DRILL BIT SYSTEM WITH HAS-E THREADED ROD.

ANCHORS IN MASONRY:

- EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ. GROUT MASONRY CELLS SOLID WITH 2000 PSI GROUT AT ANCHOR LOCATIONS.
- SCREW ANCHORS SHALL BE HILTI KWIK HUS. GROUT MASONRY CELLS SOLID WITH 2000 PSI GROUT AT ANCHOR LOCATIONS.
- ADHESIVE ANCHORS IN SOLID MASONRY SHALL BE HILTI HIT-HY 270 ADHESIVE ANCHORING SYSTEM. STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR HILTI HIS-N INTERNALLY THREADED INSERT.
- ADHESIVE ANCHORS IN HOLLOW OR MULTI-WYTHE MASONRY SHALL BE HILTI HIT-HY 270 ADHESIVE ANCHORING SYSTEM. STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR HILTI HIT-IC INTERNALLY THREADED INSERT. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER THE ADHESIVE MANUFACTURER'S RECOMMENDATION.



30x42 SCHEDULE OF SPECIAL INSPECTIONS							
	VERIFICATION AND INSPECTION	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	REFERENCED STANDARD	IBC REFERENCE	SCOPE OF SERVICE	RESPONSIBLE PARTY
	STRUCTURAL STEEL	Y/N			1705.2	-	
1	HIGH-STRENGTH BOLTING: INSPECTION TASKS PRIOR TO BOLTING						
A.	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	Y	X	-	1705.2	-	SIER
B.	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	Y	-	X	AISC 360 & applicable ASTM material	1705.2	SIER
C.	PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS ONLY
D.	PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS ONLY
E.	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION & HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS ONLY
F.	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED & DOCUMENTED FOR FASTENER ASSEMBLIES & METHODS USED.	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS ONLY
G.	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, & OTHER FASTENER COMPONENTS	Y	-	X	AISC 360	1705.2	-
2	HIGH-STRENGTH BOLTING: INSPECTION TASKS DURING BOLTING						
A.	FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES & WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS USING CALIBRATED WRENCH METHOD OR TURN-OF-NUT WITHOUT MATCHMARKING ONLY
B.	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING OPERATION.	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS USING CALIBRATED WRENCH METHOD OR TURN-OF-NUT WITHOUT MATCHMARKING ONLY
C.	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS USING CALIBRATED WRENCH METHOD OR TURN-OF-NUT WITHOUT MATCHMARKING ONLY
D.	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	Y	-	X	AISC 360	1705.2	FOR PRETENSIONED & SLIP CRITICAL JOINTS USING CALIBRATED WRENCH METHOD OR TURN-OF-NUT WITHOUT MATCHMARKING ONLY
3	HIGH-STRENGTH BOLTING: INSPECTION TASKS AFTER BOLTING						
A.	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	Y	X	-	AISC 360	1705.2	-
4	WELDING: INSPECTION TASKS PRIOR TO WELDING						
A.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	Y	X	X	AISC 360 & applicable AWS Documents	1705.2	ESTABLISH THE JOINT WELDING PROCEDURES ARE PREQUALIFIED OR TEST IN ACCORDANCE WITH AWS D1.1 QUALIFICATION PROCEDURES
B.	MANUFACTURER'S CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	-
C.	MATERIAL IDENTIFICATION (TYPE/GRADE).	Y	-	X	AISC 360	1705.2	-
D.	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):						
1)	JOINT PREPARATION	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
2)	DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
3)	CLEANLINESS (CONDITION OF STEEL SURFACES)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
4)	TACKING (TACK WELD QUALITY & LOCATION)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
5)	BACKING TYPE & FIT (IF APPLICABLE)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
F.	CONFIGURATION & FINISH OF ACCESS HOLES	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
E.	FIT-UP OF FILLET WELDS:						
1)	DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
2)	CLEANLINESS (CONDITION OF STEEL SURFACES)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
3)	TACKING (TACK WELD QUALITY & LOCATION)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
5	WELDING: INSPECTION TASKS DURING WELDING						
A.	USE OF QUALIFIED WELDERS	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	WELDERS MUST BE CURRENTLY CERTIFIED UNDER AMERICAN WELDING SOCIETY QUALIFICATION PROCEDURES.
B.	CONTROL & HANDLING OF WELDING CONSUMABLES INCLUDING PACKAGING & EXPOSURE CONTROL	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
C.	ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION, & TEMPERATURE.	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
D.	WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.), PROPER POSITION (F.V./H.O.H).	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
E.	WELDING TECHNIQUES: INTERPASS & FINAL CLEANING: EACH PASS WITHIN PROFILE LIMITATIONS: EACH PASS MEETS QUALITY REQUIREMENTS.	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
6	WELDING: INSPECTION TASKS AFTER WELDING						
A.	WELDS CLEANED	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	-
B.	SIZE, LENGTH, & LOCATION OF WELDS	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	-
C.	WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	PERFORM ULTRASONIC TESTING OF ALL FULL PENETRATION FIELD & SHOP WELDS TO COMPLY WITH ASTM E 164 PER PROJECT SPECIFICATIONS.
D.	ARC STRIKES	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	-
E.	K-AREA	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	WHEN WELDING DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. OF THE WELD.
F.	BACKING REMOVED & WELD TABS REMOVED (IF REQUIRED)	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	-
G.	REPAIR ACTIVITIES	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	-
H.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	-
7	STEEL ELEMENT OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT						
A.	PLACEMENT & INSTALLATION OF STEEL DECK	N	-	-	AWS D1.3 AISC 360	1705.2	-
B.	PLACEMENT & INSTALLATION OF STEEL HEADED STUD ANCHORS	N	-	-	AWS D1.1 AISC 360	1705.2	-
C.	DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	N	-	-	AISC 360	1705.2	-
8	INSPECTION OF FABRICATORS & FABRICATION PROCEDURES	N	-	-	AISC 360	1704.2.5	-
1	COLD-FORMED METAL DECK						
1	VERIFY COMPLIANCE OF MATERIALS (ALL DECK AND ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS AND DOCUMENT ACCEPTANCE OR REJECTION	N	-	-	SDI QA/QC	1705.2.2	-
2	VERIFY COMPLIANCE OF INSTALLATION OF ALL DECK AND ACCESSORIES WITH CONSTRUCTION DOCUMENTS AND VERIFY ACCEPTANCE OR REJECTION	N	-	-	SDI QA/QC	1705.2.2	-
3	VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	N	-	-	SDI QA/QC	1705.2.2	-
4	DECK WELDING						
A.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-
B.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-
C.	MATERIAL IDENTIFICATION (TYPE/GRADE).	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-
D.	CHECK WELDING EQUIPMENT	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-
E.	USE OF QUALIFIED WELDERS	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-
F.	CONTROL & HANDLING OF WELDING CONSUMABLES	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-
G.	ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION, & TEMPERATURE.	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-
H.	WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.), PROPER POSITION (F.V./H.O.H).	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-
I.	VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-
J.	WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-
K.	VERIFY REPAIR ACTIVITIES	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-
L.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-
5	DECK MECHANICAL FASTENING						
A.	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	N	-	-	SDI QA/QC	1705.2.2	-
B.	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	N	-	-	SDI QA/QC	1705.2.2	-
C.	PROPER STORAGE FOR MECHANICAL FASTENERS	N	-	-	SDI QA/QC	1705.2.2	-
D.	FASTENERS ARE POSITIONED AS REQUIRED	N	-	-	SDI QA/QC	1705.2.2	-
E.	FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	N	-	-	SDI QA/QC	1705.2.2	-
F.	CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS.	N	-	-	SDI QA/QC	1705.2.2	-
G.	CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS.	N	-	-	SDI QA/QC	1705.2.2	-
H.	CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS.	N	-	-	SDI QA/QC	1705.2.2	-
I.	VERIFY REPAIR ACTIVITIES	N	-	-	SDI QA/QC	1705.2.2	-
J.	DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	N	-	-	SDI QA/QC	1705.2.2	-
1	OPEN-WEB STEEL JOISTS AND JOIST GIRDERS						
1	END CONNECTIONS - WELDING OR BOLTED	N	-	-	SJI Specifications	1705.2.3	-
2	BRIDGING - HORIZONTAL OR DIAGONAL	N	-	-	SJI Specifications	1705.2.3	-
A.	STANDARD BRIDGING	N	-	-	-	-	-
B.	BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS	N	-	-	Construction documents & approved shop drawings	1705.2.3	-
CONCRETE							
1	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, & PLACEMENT.	Y	-	X	ACI 318	1705.3	VERIFY SIZE, LOCATION, SPACING ORIENTATION, COVER, SPLICING, & CONFORMANCE WITH THE CONTRACT DOCUMENTS, AS SUPPLEMENTED WITH APPROVED SHOP DRAWINGS. OR OTHER SUBMITTALS. CONFIRM THAT THE SURFACE OF THE REINFORCING STEEL IS FREE OF FORM RELEASE OIL OR OTHE
2	INSPECTION OF REINFORCING STEEL WELDING.						
A.	VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	N	-	-	AWS D1.4 ACI 318	1705.3	-
B.	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	N	-	-	AWS D1.4 ACI 318	1705.3	-
C.	INSPECT ALL OTHER WELDS	N	-	-	AWS D1.4 ACI 318	1705.3	-
3	INSPECT ANCHORS CAST-IN CONCRETE.	Y	-	X	ACI 318	1705.3	PRECISE LOCATION OF ANCHOR RODS IS NOT EXPECTED BUT VERIFY THE CONTRACTOR HAS TAKEN APPROPRIATE STEPS TO CORRECTLY POSITION THEM SUCH AS ENGAGING A SURVEYOR OR SETTING UP A SYSTEM OF STRING LINES & BATTER BOARDS & THAT CORRECT GRADE & SIZE OF ANCHORS IS

30x42 SCHEDULE OF SPECIAL INSPECTIONS								
	VERIFICATION AND INSPECTION	Y/N	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	REFERENCED STANDARD	IBC REFERENCE	SCOPE OF SERVICE	RESPONSIBLE PARTY
4	INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE.	Y	X	-	ACI 318	0		
A.	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	Y	-	X	ACI 318	0		
B.	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE	Y	-	X	ACI 318	1705.3	VERIFY APPROVED MIX DESIGN	SIER
5	VERIFYING USE OF REQUIRED DESIGN MIX.	Y	X	-	ASTM C 172/ASTM C 31/ACI 318	1705.3	TEST IN ACCORDANCE WITH PROJECT SPECIFICATIONS, BUT NOT LESS THAN ONCE PER DAY PER CLASS OF CONCRETE OR ONCE PER 150 CUBIC YARDS PER DAY OR ONCE PER 5,000 SQUARE FEET OF SLAB OR WALL PER DAY. CYLINDERS MUST BE PROPERLY HANDLED & STORED ON SITE UNTIL TRANS	SIER
6	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP & AIR CONTENT TESTS, & DETERMINE THE TEMPERATURE OF THE CONCRETE.	Y	X	-			VERIFY CONFORMANCE WITH PROJECT SPECIFICATIONS. INSPECTOR SHALL BE WHERE THE CONCRETE IS BEING PLACED RATHER THAN WHERE CONCRETE TRUCKS ARE DISCHARGING THEIR LOADS. INSPECTION NEEDS TO BE PRESENT WHILE SLAB IS BEING FLOATED & POWER TROWELED.	SIER
7	INSPECTION OF CONCRETE & SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	Y	X	-	ACI 318	1705.3	VERIFY CONFORMANCE WITH PROJECT SPECIFICATIONS & ACI	SIER
8	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.	Y	-	X	ACI 318	1705.3	VERIFY CONFORMANCE WITH PROJECT SPECIFICATIONS & ACI	SIER
9	INSPECTION OF PRESTRESSED CONCRETE:							
A.	APPLICATION OF PRESTRESSING FORCES.	N	-	-	ACI 318	1705.3	-	-
B.	GROUTING OF BONDED PRESTRESSING TENDONS.	N	-	-	ACI 318	1705.3	-	-
10	ERECTION OF PRECAST CONCRETE MEMBERS.	N	-	-	ACI 318	1705.3	-	-
11	VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE & PRIOR TO REMOVAL OF SHORES & FORMS FROM BEAMS & STRUCTURAL SLABS.	N	-	-	ACI 318	1705.3	-	-
12	INSPECT FORMWORK FOR SHAPE, LOCATION & DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	N	-	-	ACI 318	1705.3	-	-
	MASONRY							
	LEVEL A QUALITY ASSURANCE: RISK CATEGORY I, II, OR III STRUCTURES DESIGNED IN ACCORDANCE WITH PART 4 OR APPENDIX A.	Y	-	-		1705.4		
	LEVEL B QUALITY ASSURANCE: RISK CATEGORY IV STRUCTURES DESIGNED IN ACCORDANCE WITH CHAPTERS 12 OR 13 & RISK CATEGORY I, II, OR III STRUCTURES DESIGNED IN ACCORDANCE WITH CHAPTERS OTHER THAN THOSE IN PART 4 OR APPENDIX A.	N	-	-		1705.4		
	LEVEL C QUALITY ASSURANCE: RISK CATEGORY IV STRUCTURES DESIGNED IN ACCORDANCE WITH CHAPTERS OTHER THAN PART 4 OR APPENDIX A.	N	-	-		1705.4		
1	PRIOR TO CONSTRUCTION VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION AND DURING CONSTRUCTION COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS & THE APPROVED SUBMITTALS SHALL BE VERIFIED.	Y	-	X	ACI30.1	1705.4	VERIFY COMPLIANCE WITH APPROVED SHOP DRAWINGS.	SIER
2	VERIFICATION OF F/M & F/AAC PRIOR TO CONSTRUCTION (AND FOR EVERY 5,000 SQUARE FEET DURING CONSTRUCTION FOR LEVEL C).	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
3	VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, & GROUT OTHER THAN SELF-CONSOLIDATING GROUT AS DELIVERED TO THE SITE OR PROPORTIONS OF SITE PREPARED MORTAR.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
4	VERIFICATION OF SLUMP FLOW & VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
5	THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:							
A.	PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, & PRESTRESSING GROUT FOR BONDED TENDONS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
B.	PLACEMENT OF MASONRY UNITS & CONSTRUCTION OF MORTAR JOINTS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
C.	GRADE, TYPE, & SIZE OF REINFORCEMENT, ANCHOR BOLTS, PRESTRESSING TENDONS, & ANCHORAGES	N	-	-	TMS 402/ACI 530/ASCE 5/TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
D.	PLACEMENT OF REINFORCEMENT, CONNECTORS & PRESTRESSING TENDONS & ANCHORAGES.	N	-	-	TMS 402/ACI 530/ASCE 5/TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
E.	GROUT SPACE PRIOR TO GROUTING.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
F.	PLACEMENT OF GROUT & PRESTRESSING GROUT FOR BONDED TENDONS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
G.	SIZE & LOCATION OF STRUCTURAL ELEMENTS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
H.	TYPE, SIZE & LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	N	-	-	TMS 402/ACI 530/ASCE 5	1705.4	-	-
I.	WELDING OF REINFORCEMENT.	N	-	-	TMS 402/ACI 530/ASCE 5	1705.4	-	-
J.	PREPARATION, CONSTRUCTION & PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
K.	APPLICATION & MEASUREMENT OF PRESTRESSING FORCE.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
L.	PLACEMENT OF AAC MASONRY UNITS & CONSTRUCTION OF THIN-BED MORTAR JOINTS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
M.	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
N.	VERIFY PRE-STRESSING TECHNIQUE IS IN COMPLIANCE AS CONSTRUCTION BEGINS	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
6	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-
	WOOD CONSTRUCTION							
1	INSPECTION OF FABRICATORS & FABRICATION PROCEDURES FOR PREFABRICATED WOOD STRUCTURAL ELEMENTS.	Y	-	X		1705.5	-	SIER
2	HIGH-LOAD DIAPHRAGMS DESIGNED IN ACCORDANCE WITH SECTION 2306.2	N	-	X		1705.5	-	SIER
3	METAL PLATE CONNECTED WOOD TRUSSES SPANNING 60 FEET OR MORE	N	-	-		1705.5	-	-
	SOILS							
1	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	Y	-	X	Geotechnical Report	1705.6	-	SIER
2	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH & HAVE REACHED PROPER MATERIAL.	Y	-	X	Geotechnical Report	1705.6	-	SIER
3	PERFORM CLASSIFICATION & TESTING OF COMPACTED FILL MATERIALS.	Y	-	X	Geotechnical Report	1705.6	-	SIER
4	VERIFY USE OF PROPER MATERIALS, DENSITIES, & LIFT THICKNESSES DURING PLACEMENT & COMPACTION OF COMPACTED FILL.	Y	X	-	Geotechnical Report	1705.6	TEST FREQUENCY PER SPECIFICATIONS, BUT NOT LESS THAN ONE TEST EVERY 2,000 SQUARE FEET FOR EACH LAYER OF FILL OR PROOF-ROLLING	SIER
5	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE & VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	Y	-	X	Geotechnical Report	1705.6	-	SIER
	DRIVEN DEEP FOUNDATIONS							
1	VERIFY ELEMENT MATERIALS, SIZES, & LENGTHS COMPLY WITH THE REQUIREMENTS.	N	-	-		1705.7	-	-
2	DETERMINE CAPACITIES OF TEST ELEMENTS & CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	N	-	-		1705.7	-	-
3	OBSERVE DRIVING OPERATIONS & MAINTAIN COMPLETE & ACCURATE RECORDS FOR EACH ELEMENT.	N	-	-		1705.7	-	-
4	VERIFY PLACEMENT LOCATIONS & PLUMBNESS, CONFIRM TYPE & SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP & BUTT ELEVATIONS, & DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	N	-	-		1705.7	-	-
5	PERFORM ADDITIONAL INSPECTIONS FOR STEEL ELEMENTS PER STEEL INSPECTION REQUIREMENTS.	N	-	-		1705.7	-	-
6	PERFORM ADDITIONAL INSPECTIONS FOR CONCRETE & CONCRETE-FILLED ELEMENTS PER CONCRETE INSPECTION REQUIREMENTS.	N	-	-		1705.7	-	-
7	PERFORM ADDITIONAL INSPECTIONS FOR SPECIALTY ELEMENTS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN CHARGE.	N	-	-		1705.7	-	-
	CAST-IN-PLACE DEEP FOUNDATIONS							
1	OBSERVE DRILLING OPERATIONS & MAINTAIN COMPLETE & ACCURATE RECORDS FOR EACH ELEMENT	N	-	-		1705.8	-	-
2	VERIFY PLACEMENT LOCATIONS & PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE), & ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	N	-	-		1705.8	-	-
3	PERFORM ADDITIONAL INSPECTIONS FOR CONCRETE ELEMENTS PER CONCRETE INSPECTION REQUIREMENTS.	N	-	-		1705.8	-	-
	HELICAL PILE FOUNDATIONS							
1	RECORD INSTALLATION EQUIPMENT USED, PILE DIMENSIONS, TIP ELEVATIONS, FINAL DEPTH, & FINAL INSTALLATION TORQUE	N	-	-	Geotechnical Report & Approved Shop Drawings	1705.9	-	-
	SPRAYED FIRE-RESISTANT MATERIALS							
1	CONDITIONS OF SUBSTRATES	N	-	-	Approved fire-resistance design	1705.14	-	-
2	THICKNESS OF APPLICATION	N	-	-	Approved fire-resistance design	1705.14	-	-
3	DENSITY IN POUNDS PER CUBIC FOOT	N	-	-	Approved fire-resistance design	1705.14	-	-
4	BOND STRENGTH ADHESION/COHESION	N	-	-	Approved fire-resistance design	1705.14	-	-
5	CONDITION OF FINISHED APPLICATION	N	-	-	Approved fire-resistance design	1705.14	-	-
6	FIRE-RESISTANT PENETRATIONS & JOINTS	N	-	-	Approved fire-resistance design	1705.17	-	-
	LIGHT GAUGE METAL FRAMING	N	-	-	Approved shop drawings		-	-
	MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS	N	-	-	AWCI-12B & approved fire-resistance design	1705.15	-	-
	EXTERIOR INSULATION & FINISH SYSTEMS (EIFS)	N	-	-	-	1705.16	-	-





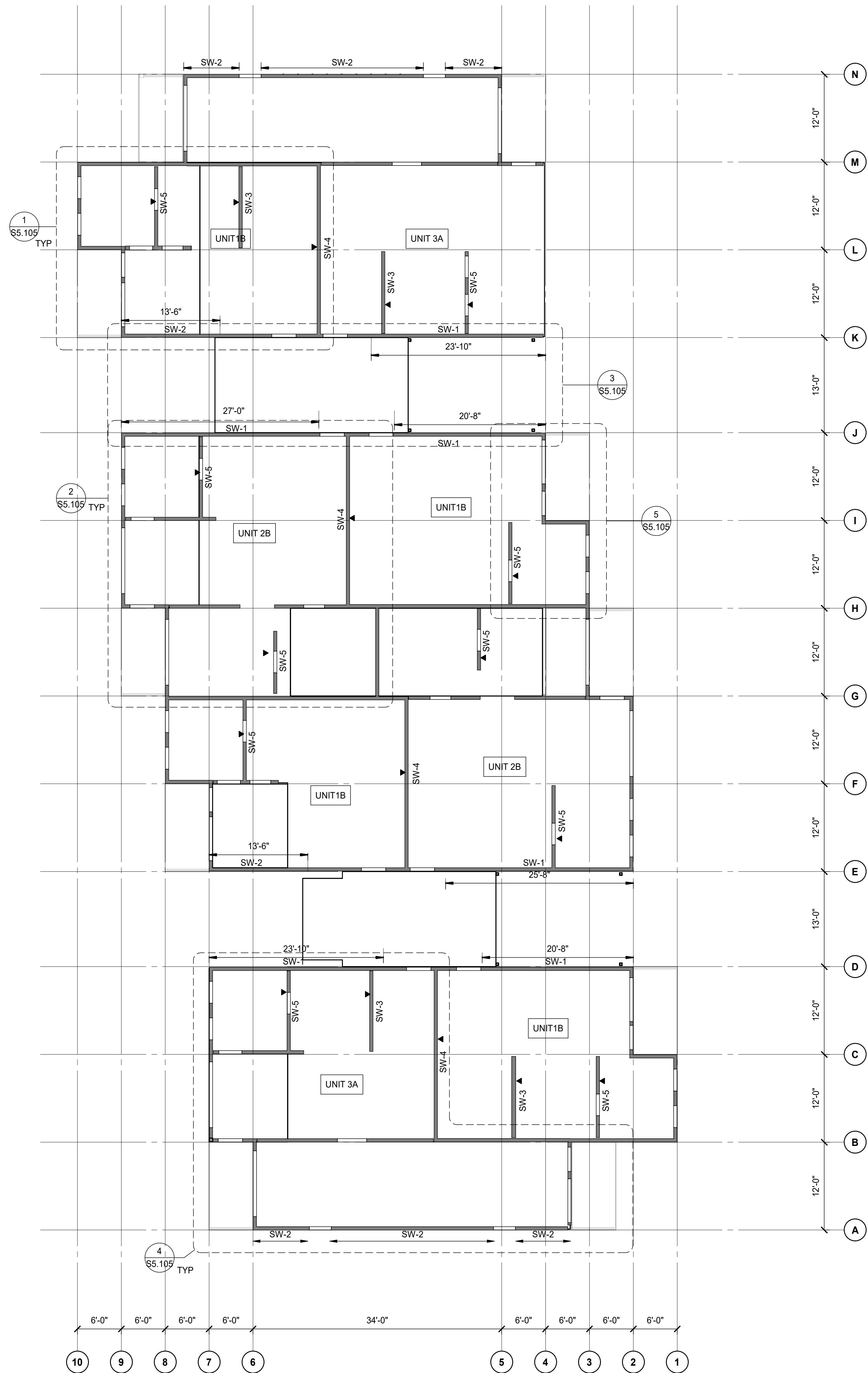
KEY PLAN  
SCALE: 1" = 50'-0"









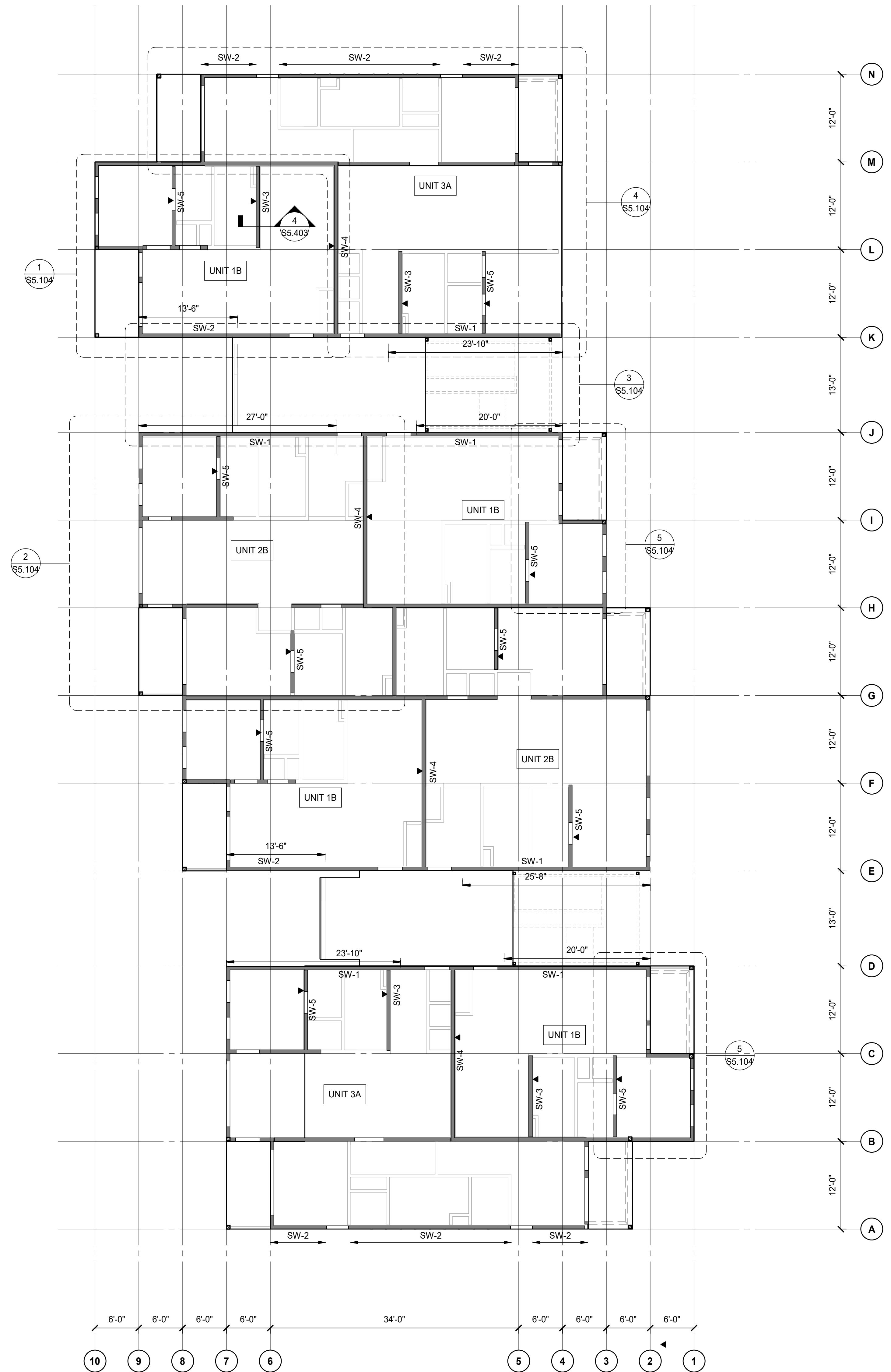


LEVEL 3 FRAMING PLAN

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

NOTES

1. SEE UNIT FRAMING PLANS FOR ELEVATED FLOOR CONSTRUCTION NOTES.
2. 3RD FLOOR INTERIOR TOP OF SHEATHING ELEVATION = 32.00' TYP.
3. SW-X DENOTES SHEAR WALL. ► DENOTES SIDE OF WALL TO BE SHEATHED. SEE S5.403 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS.  
 ◄-XXXX-► DENOTES SHEAR WALL EXTENTS.

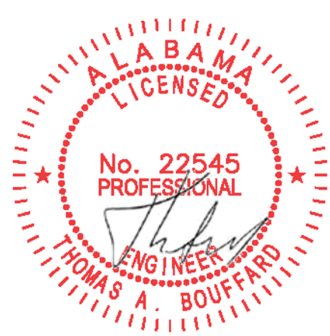


LEVEL 2 FRAMING PLAN

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

NOTES

1. SEE UNIT FRAMING PLANS FOR ELEVATED FLOOR CONSTRUCTION NOTES.
2. 2ND FLOOR TOP OF SHEATHING ELEVATION = 21.33'.
3. SW-X DENOTES SHEAR WALL. ► DENOTES SIDE OF WALL TO BE SHEATHED. SEE S5.403 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS.  
 ◄-XXXX-► DENOTES SHEAR WALL EXTENTS.



**TERRACES AT HIGH MOUNTAIN**  
 4130 HIGH MOUNTAIN ROAD NE  
 HUNTSVILLE, AL 35811

**S5.101**  
 LEVEL 2 AND 3 FRAMING  
 PLANS  
 12/14/20  
**3**  
 NORTH  
 ©2020

www.3north.com  
 804 232 8900

REVISIONS

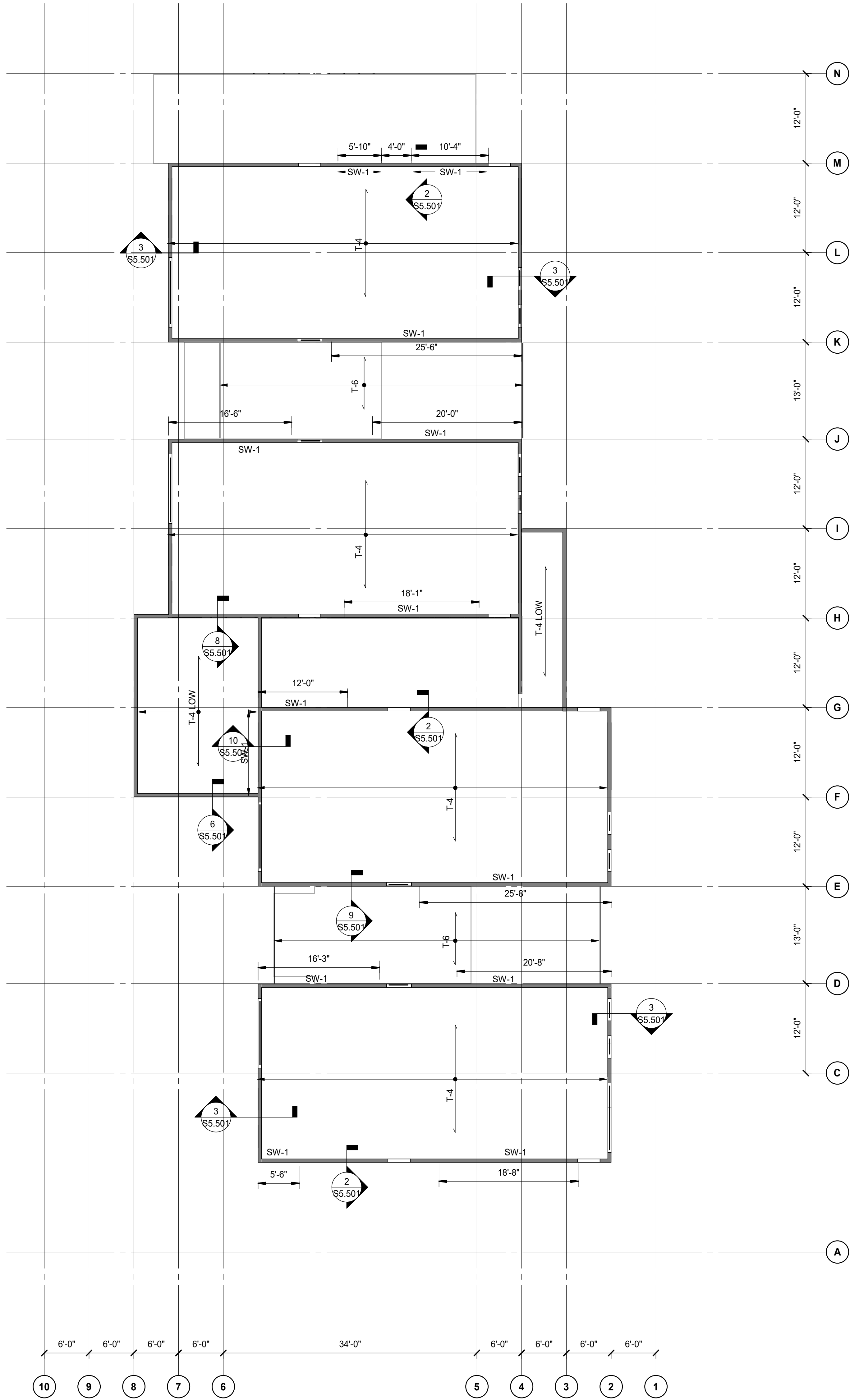
PERMIT

PERMIT SET

06/11/2021

06/11/2021





ROOF FRAMING PLAN

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

NOTES

1. ROOF CONSTRUCTION 3/4" STRUCTURAL SHEATHING ON PRE-ENGINEERED ROOF WOOD TRUSSES @ 24" O.C.
2. ROOF TOP OF SHEATHING ELEVATION VARIES, SEE ARCH.
3. TYPICAL SECTIONS SHOWN ARE APPLICABLE TO SIMILAR CONDITIONS EVEN IF MARKS ARE NOT SHOWN.
4. SEE S5.401 FOR TYPICAL HEADERS AND STUDS AT OPENINGS U.N.O.
5. SEE S5.401 FOR COLUMN BEAM & SCHEDULE
6. SW-X DENOTES SHEAR WALL. ► DENOTES SIDE OF WALL TO BE SHEATHED.  
SEE S5.403 FOR SHEAR WALL SCHEDULE AND TYPICAL DETAILS.  
← XXXX → DENOTES SHEAR WALL EXTENTS.



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S5.102  
ROOF FRAMING PLAN  
3  
NORTH

www.3north.com  
804 232 8900

REVISIONS

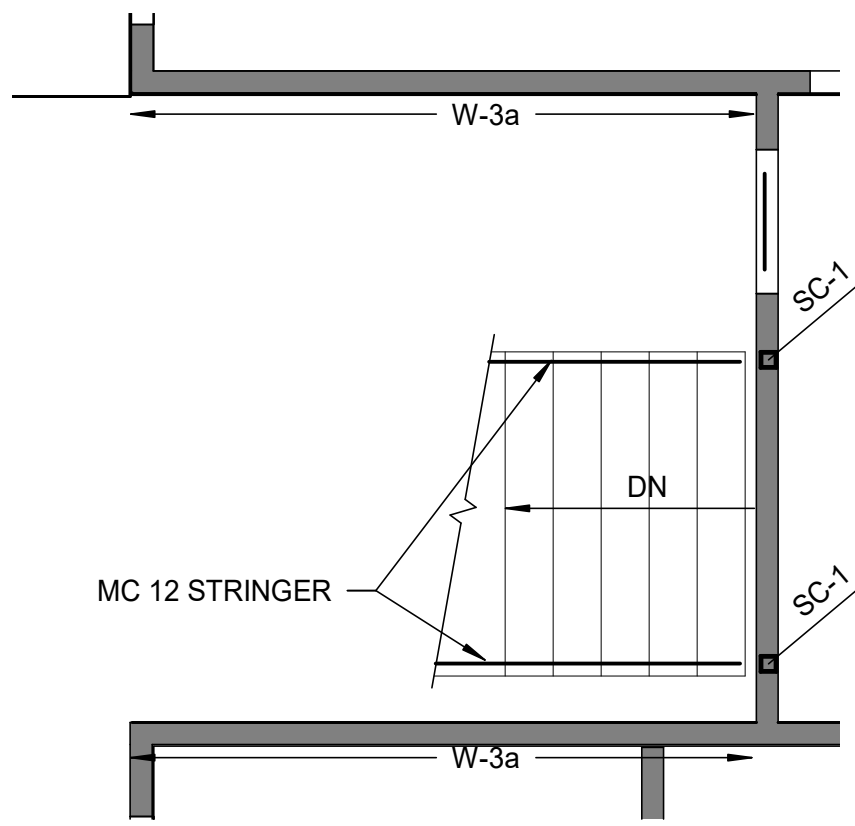
PERMIT

06/11/2021

06/11/2021

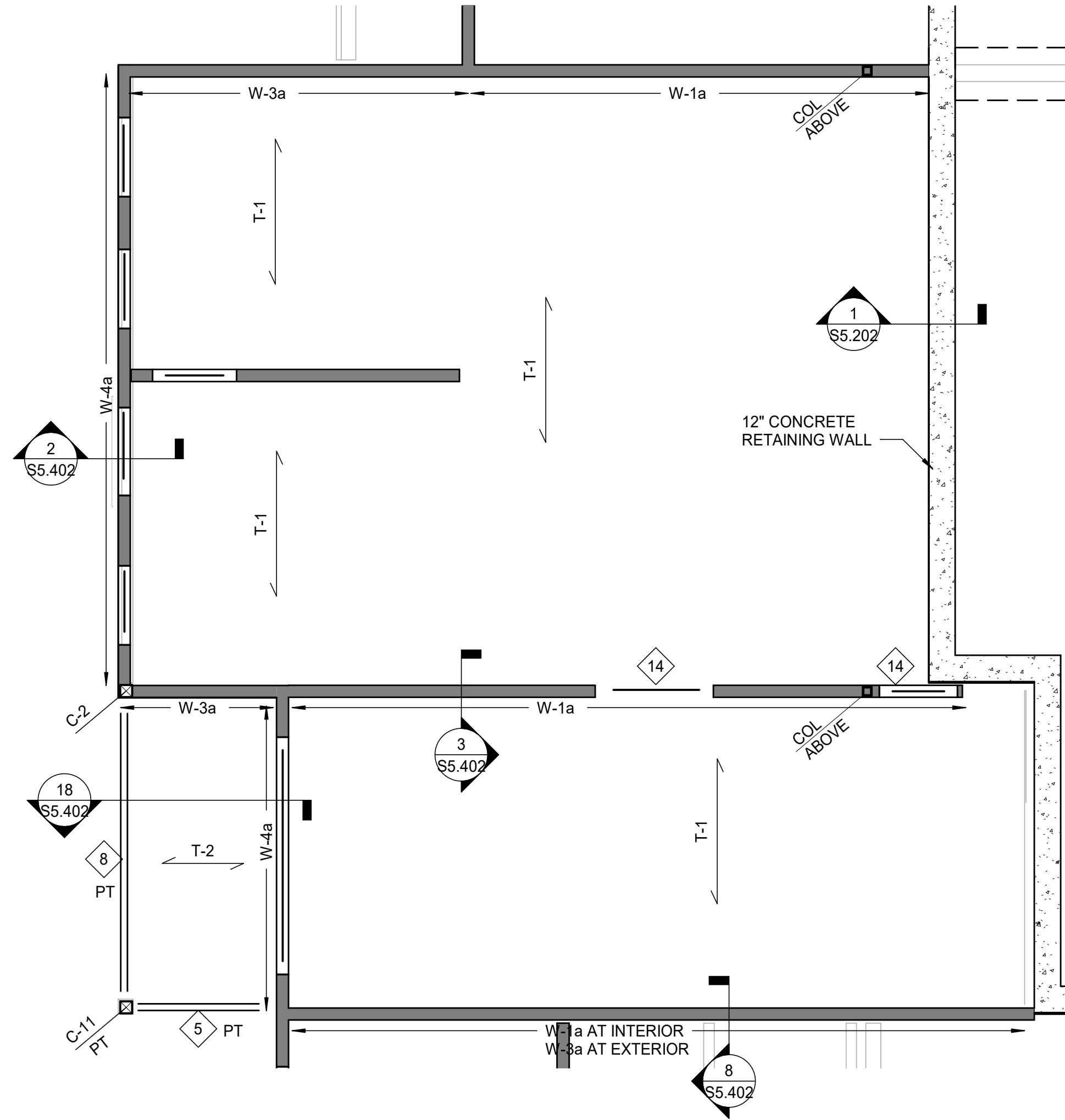
PERMIT SET





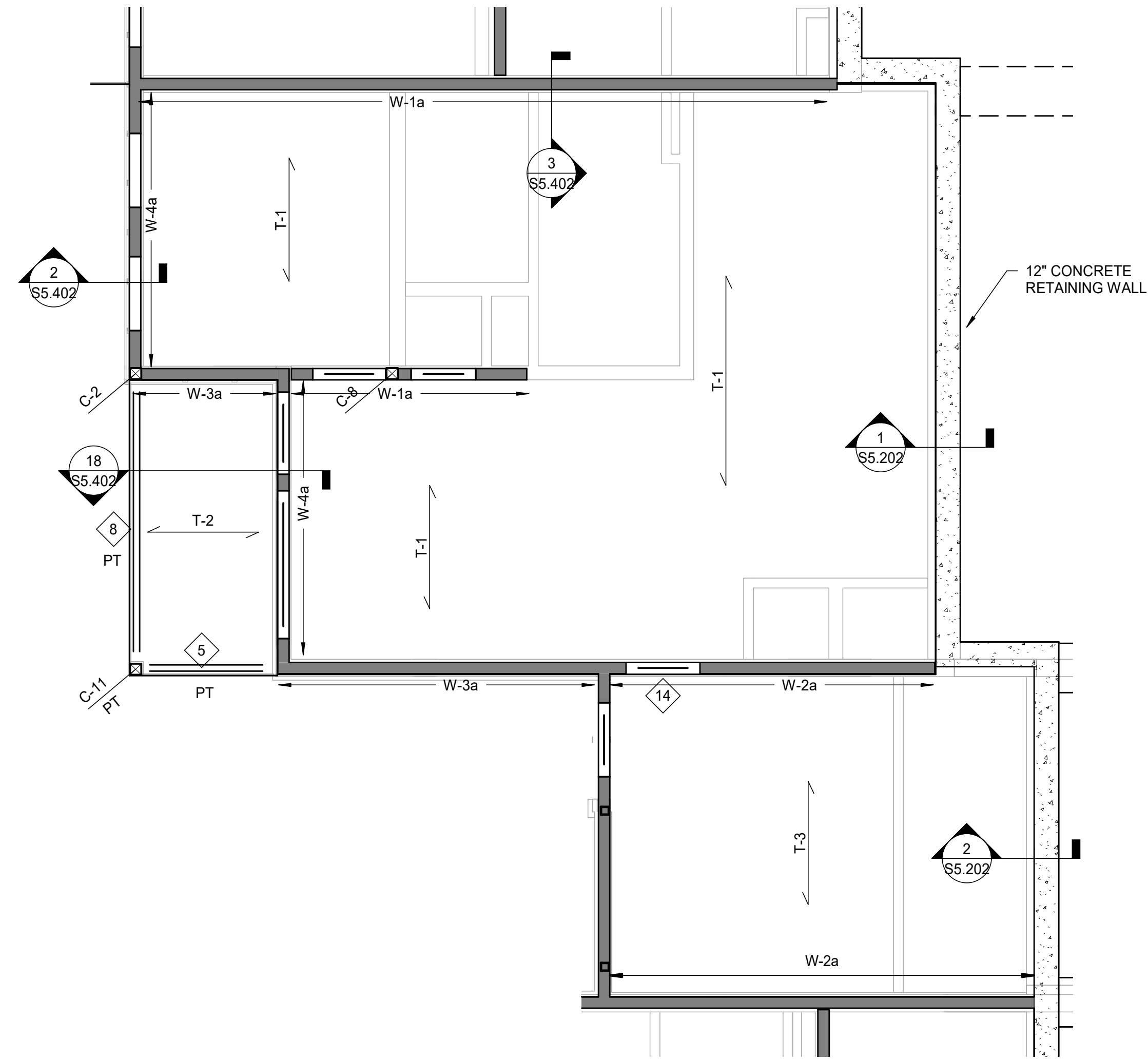
LEVEL 1 BREEZEWAY  
SCALE: 1/4" = 1'-0"

3  
S5.103



LEVEL 1 UNIT 2A  
SCALE: 1/4" = 1'-0"

2  
S5.103




LEVEL 1 UNIT 2C  
SCALE: 1/4" = 1'-0"

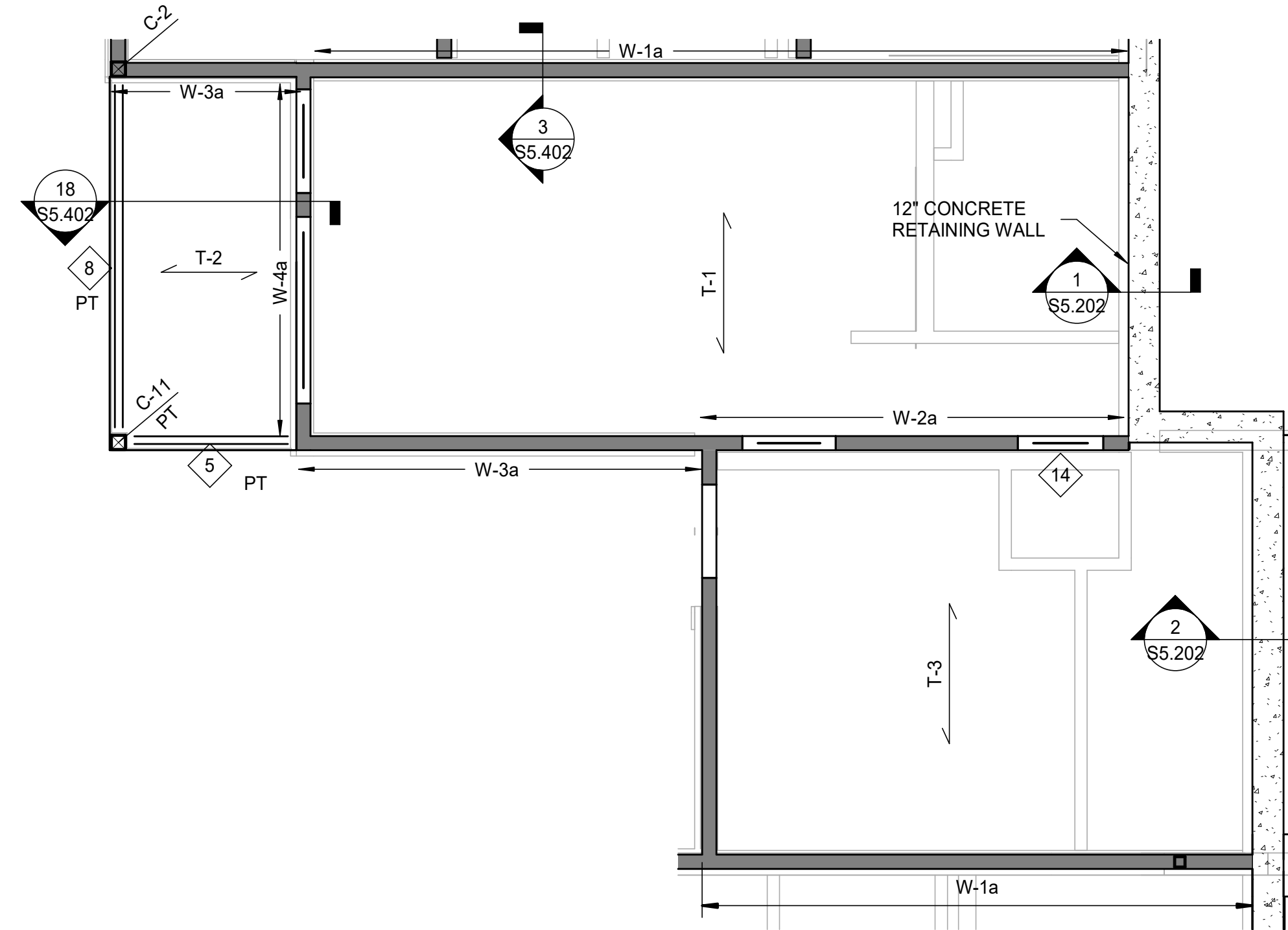
1  
S5.103

### LEVEL 1 UNIT FRAMING GENERAL NOTES:

#### NOTES:

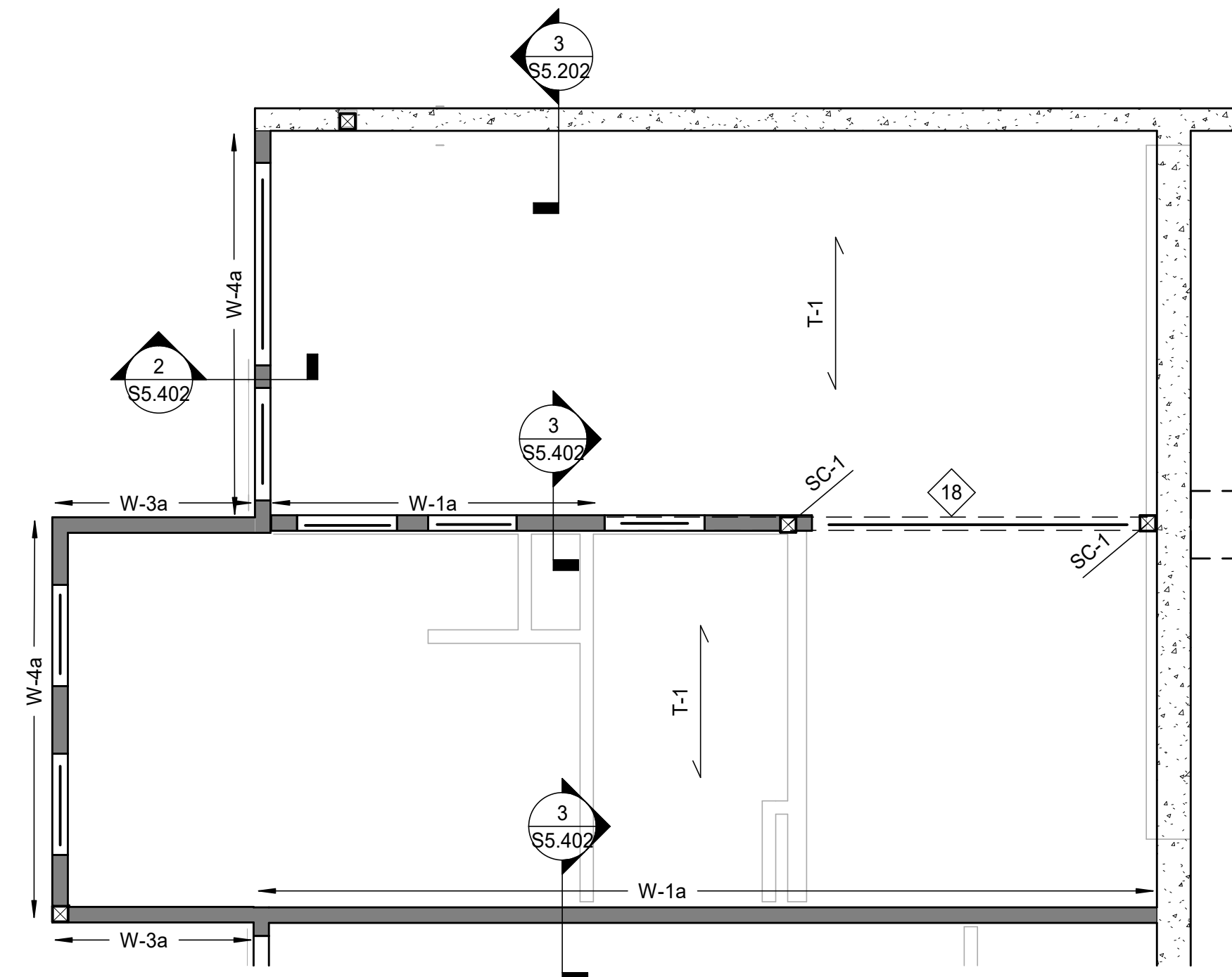
1. TYPICAL FLOOR CONSTRUCTION SHALL BE AS FOLLOWS: UP TO 1" THICK GYPCRETE TOPPING OVER 23/32" (3/4") APA RATED STURDI-FLOOR TONGUE AND GROOVE PANELS GLUED AND SCREWED TO 18" TRUSSES OVER 2x WOOD BEARING WALLS. SEE S5.401 FOR SCHEDULE AND TRUSS LOADING INFORMATION.
2. TOP OF SHEATHING = 10.60' REFERENCE @ LEVEL 1.
3. SEE S5.401 FOR TYPICAL HEADERS, STUDS AT OPENINGS, BEAM AND COLUMN SCHEDULES.
4.  DENOTES BEARING WALL.
5. SEE LEVEL 1 FRAMING PLAN ON S5.100 FOR SHEAR WALL LOCATIONS AND NOTES.
6. TYPICAL CONDITIONS ARE APPLICABLE EVEN IF SECTIONS ARE NOT SHOWN.

TRUSS/JOIST SHOP DRAWING SUBMITTAL SHALL BE COORDINATED WITH AND SHALL SHOW ALL BATHTUB, SHOWER AND TOILET DRAINS AND ALL MECHANICAL SHAFTS. ADJUST JOIST SPACING AND/OR ADD JOISTS AND HEADERS TO CLEAR PLUMBING & MECHANICAL.



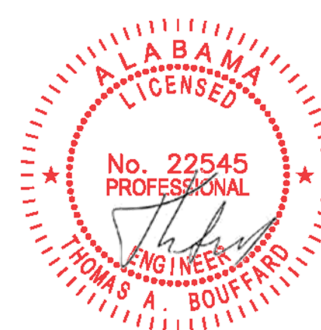
LEVEL 1 UNIT 1A  
SCALE: 1/4" = 1'-0"

5  
S5.103



LEVEL 1 UNIT 1C  
SCALE: 1/4" = 1'-0"

4  
S5.103



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S5.103  
UNIT FRAMING PLANS  
3  
NORTH  
©2020

www.3north.com  
804 232 8900

REVISIONS

PERMIT

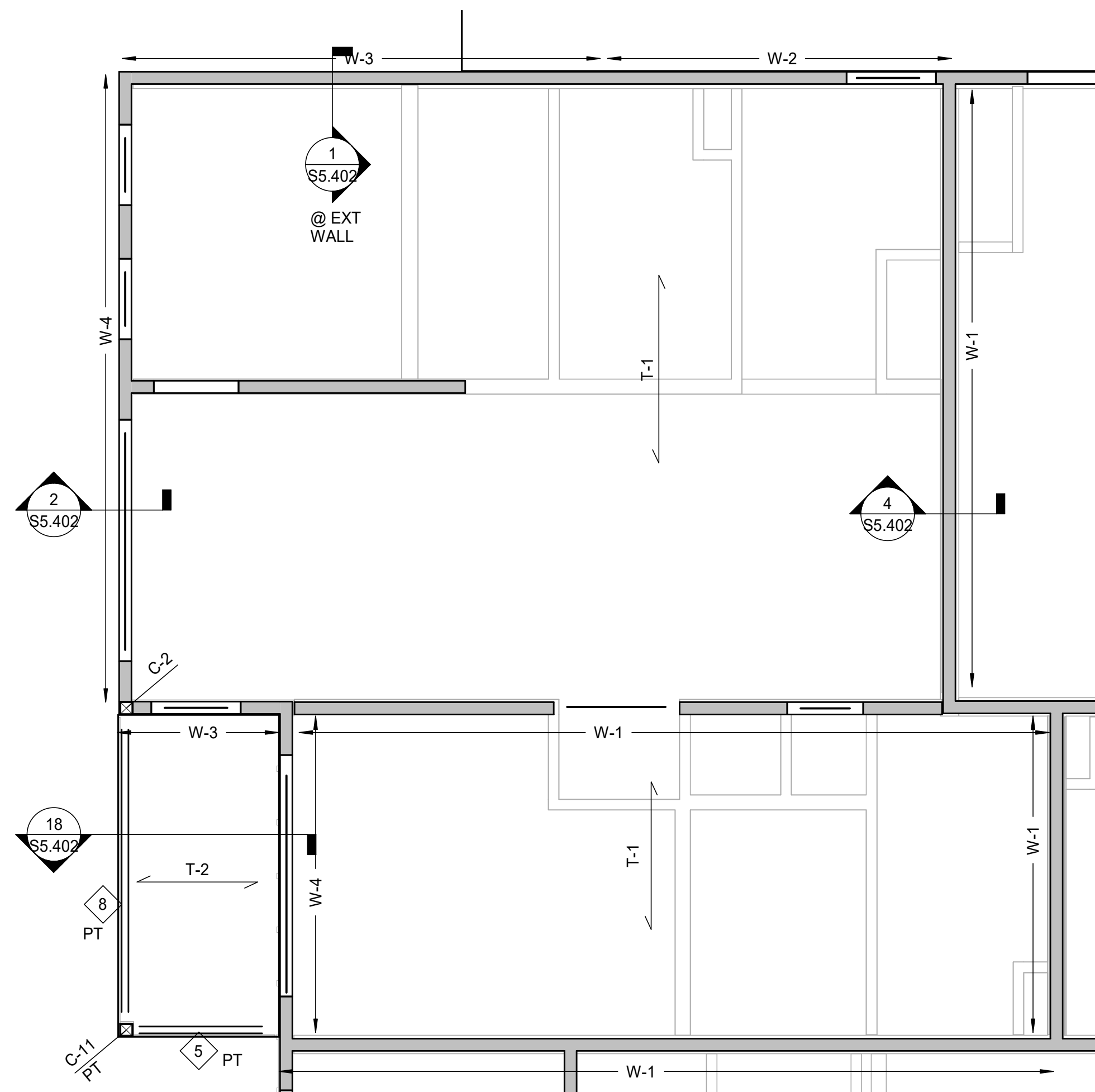
PERMIT SET

06/11/2021

12/14/20

06/11/2021

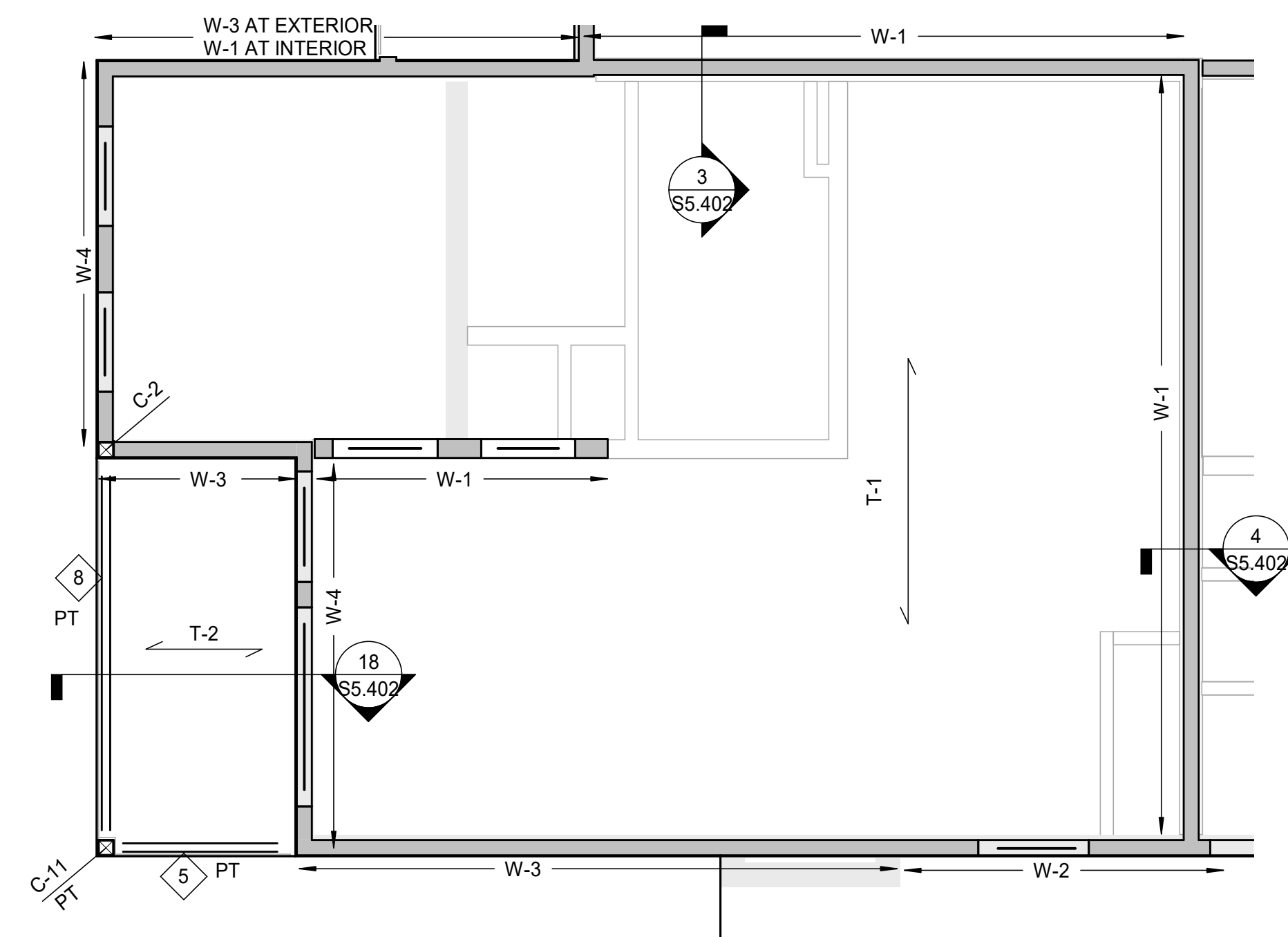




LEVEL 2 UNIT 2B

SCALE: 1/4" = 1'-0"

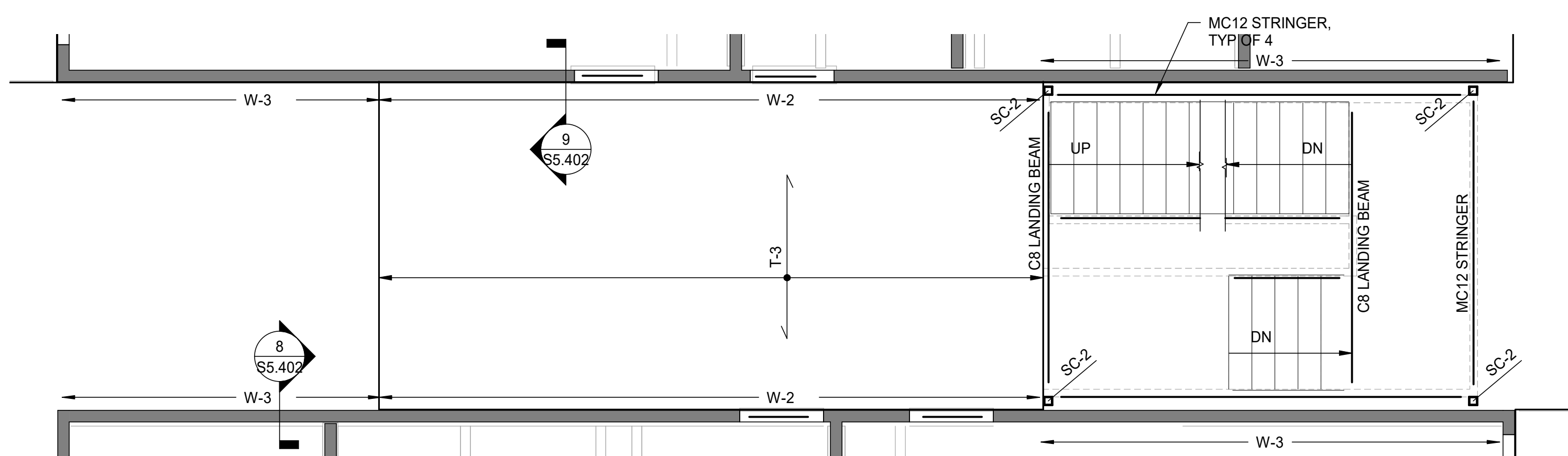
2  
S5.104



LEVEL 2 UNIT 1B

SCALE: 1/4" = 1'-0"

1  
S5.104



LEVEL 2 BREEZEWAY


SCALE: 1/4" = 1'-0"

3  
S5.104

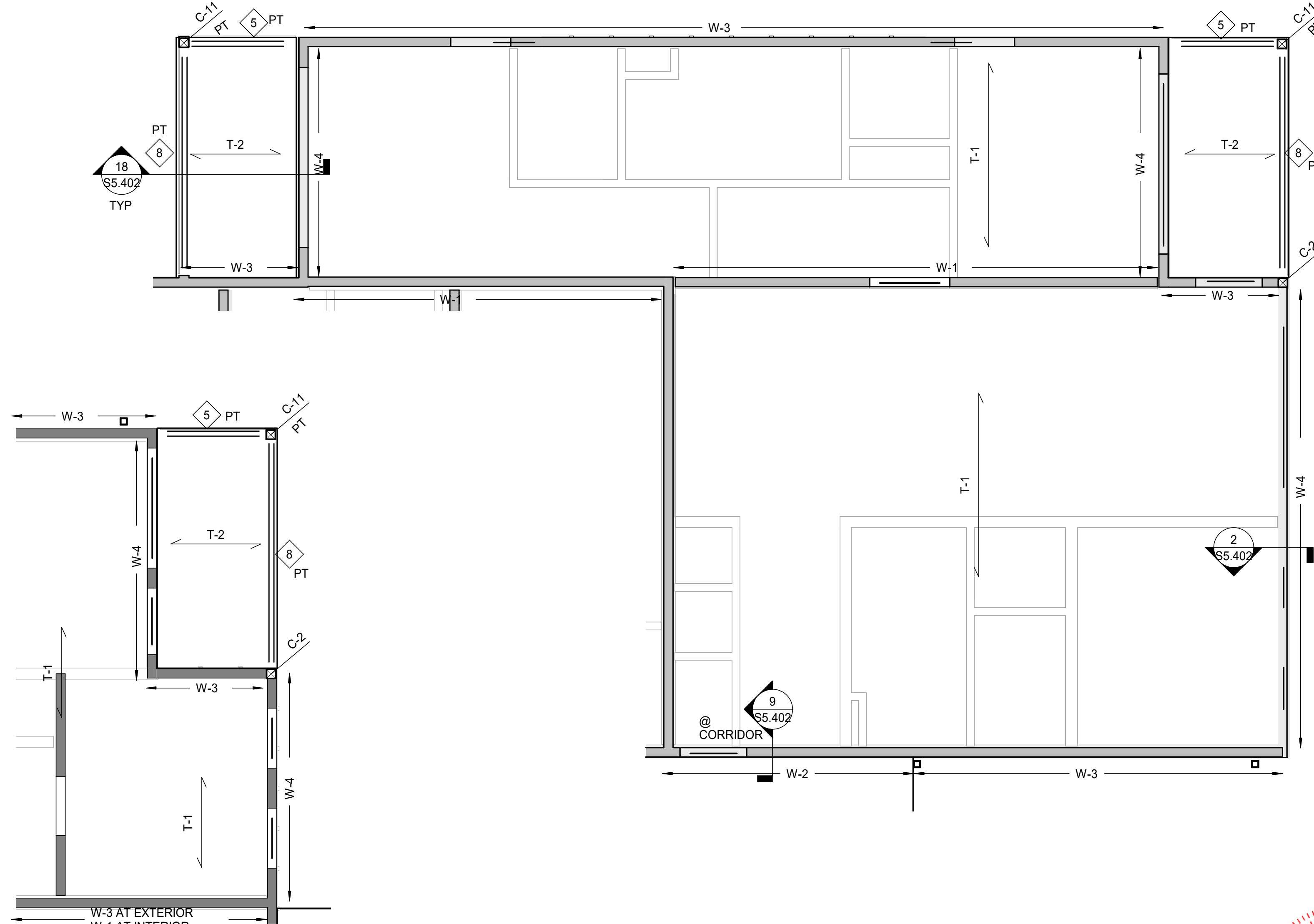
NOTE: PROVIDE STAIR SHOP DRAWINGS  
DESIGNED BY SPECIALTY ENGINEER.  
SIZES ARE SHOWN FOR INTENT ONLY.

### LEVEL 2 UNIT FRAMING GENERAL NOTES:

#### NOTES:

1. TYPICAL FLOOR CONSTRUCTION SHALL BE AS FOLLOWS: UP TO 1" THICK GYPCRETE TOPPING OVER 23/32" (3/4") APA RATED STURDI-FLOOR TONGUE AND GROOVE PANELS GLUED AND SCREWED TO 18" TRUSSES OVER 2x WOOD BEARING WALLS. SEE S5.401 FOR SCHEDULE AND TRUSS LOADING INFORMATION.
2. TOP OF SHEATHING = 21.33' REFERENCE @ LEVEL 2.
3. SEE S5.401 FOR TYPICAL HEADERS, STUDS AT OPENINGS, BEAM AND COLUMN SCHEDULES.
4.  DENOTES BEARING WALL.
5. SEE LEVEL 2 FRAMING PLAN ON S5.02 FOR SHEAR WALL LOCATIONS AND NOTES.
6. TYPICAL CONDITIONS ARE APPLICABLE EVEN IF SECTIONS ARE NOT SHOWN.

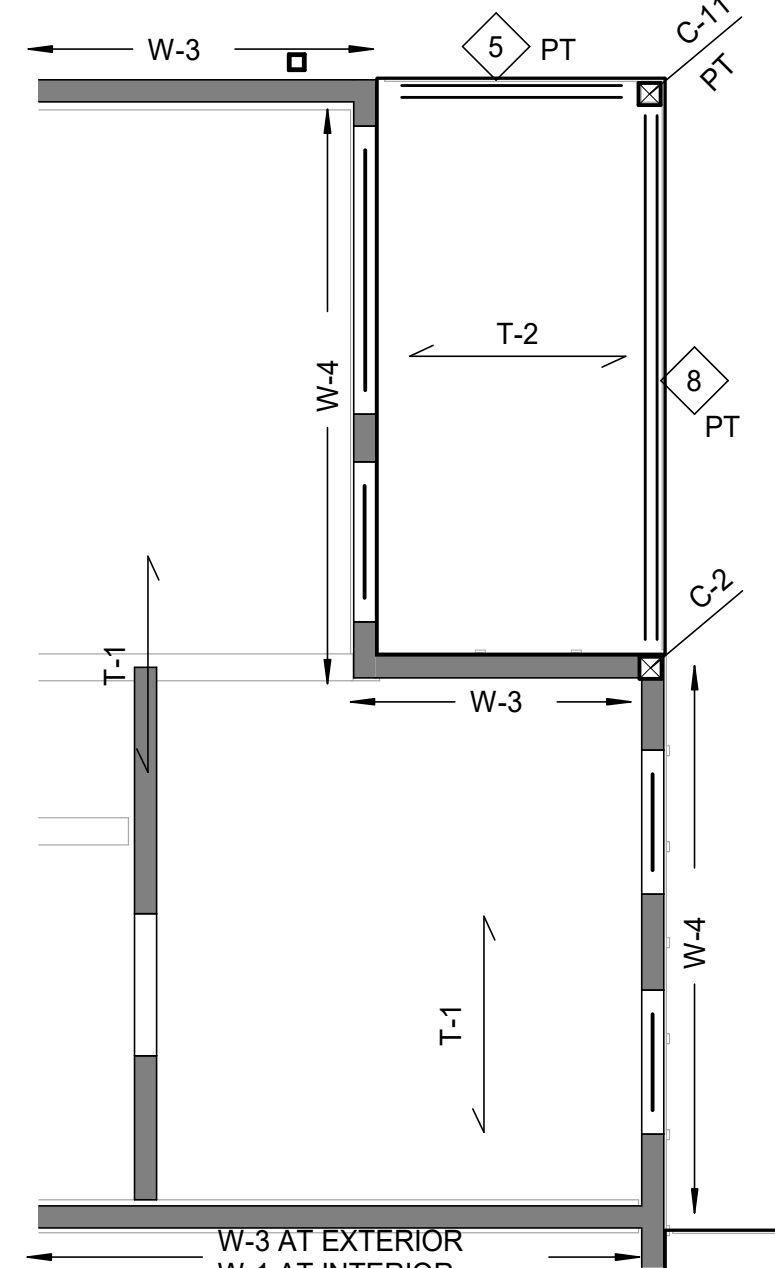
TRUSS/JOIST SHOP DRAWING SUBMITTAL SHALL BE COORDINATED WITH  
AND SHALL SHOW ALL BATHTUB, SHOWER AND TOILET DRAINS AND ALL  
MECHANICAL SHAFTS. ADJUST JOIST SPACING AND/OR ADD JOISTS AND  
HEADERS TO CLEAR PLUMBING & MECHANICAL.



LEVEL 2 UNIT 3A

SCALE: 1/4" = 1'-0"

4  
S5.104



LEVEL 2 PARTIAL BALCONY

SCALE: 1/4" = 1'-0"

5  
S5.104



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

**S5.104**  
UNIT FRAMING PLANS  
3  
NORTH  
©2020

www.3north.com  
804 232 8900

REVISIONS

PERMIT

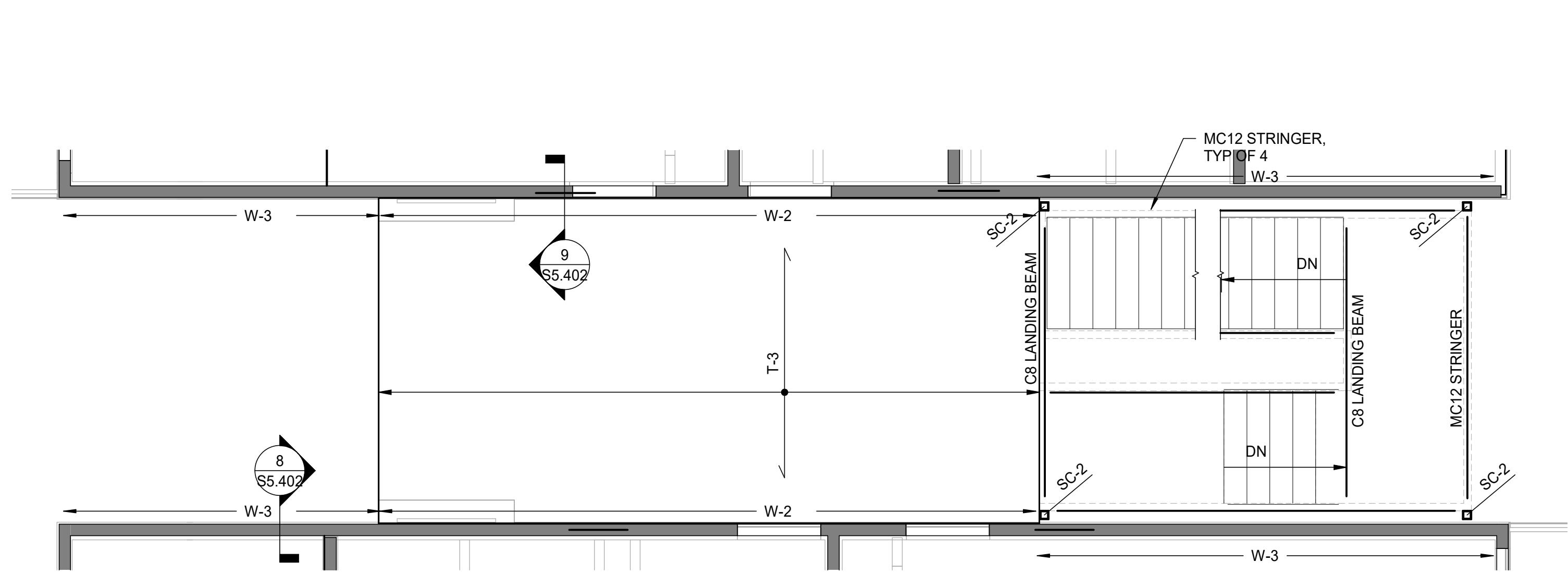
06/11/2021

PERMIT SET

06/11/2021

12/14/20



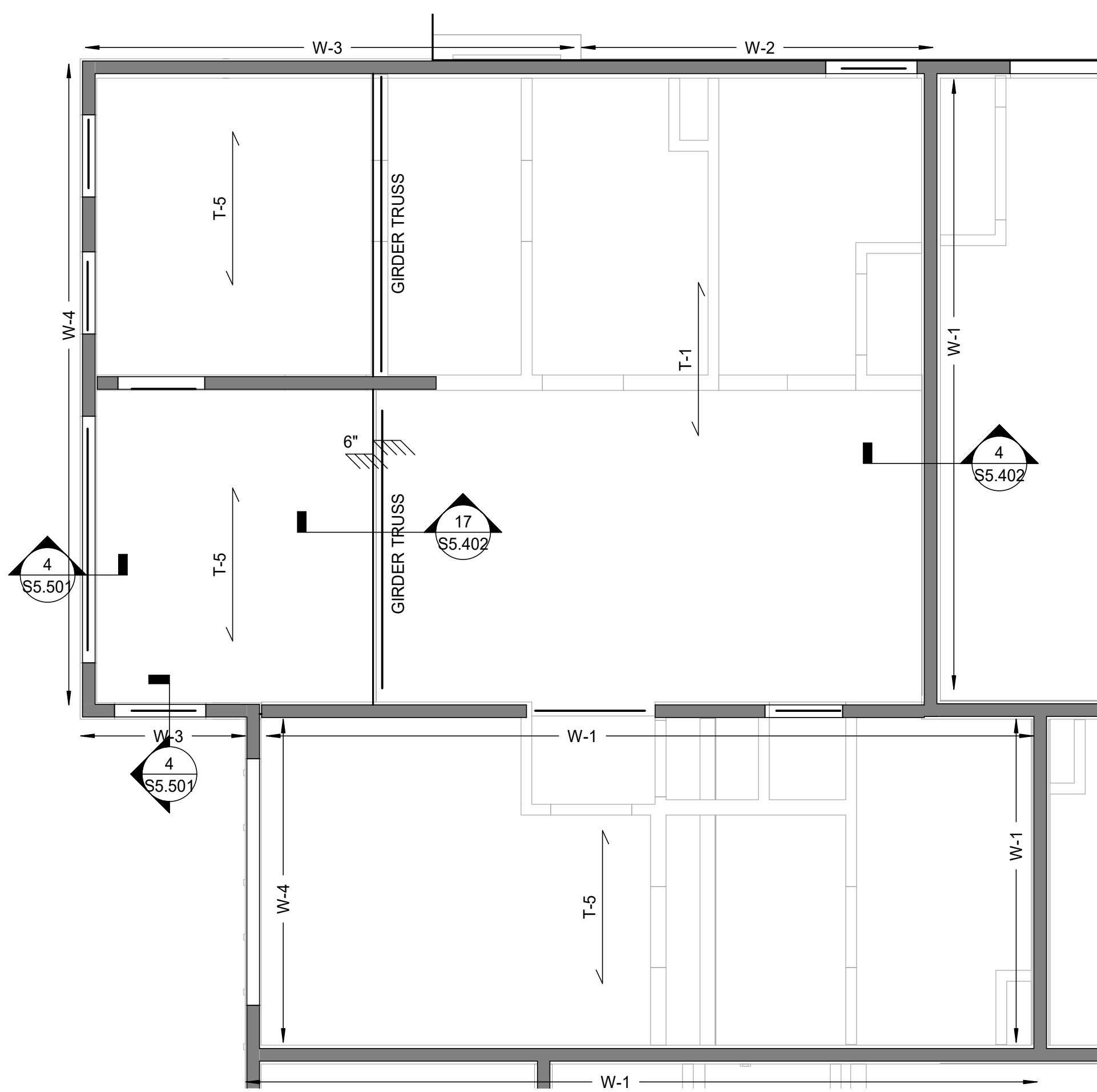


NOTE: PROVIDE STAIR SHOP DRAWINGS  
DESIGNED BY SPECIALTY ENGINEER.  
SIZES ARE SHOWN FOR INTENT ONLY.

LEVEL 3 BREEZEWAY

SCALE: 1/4" = 1'-0"

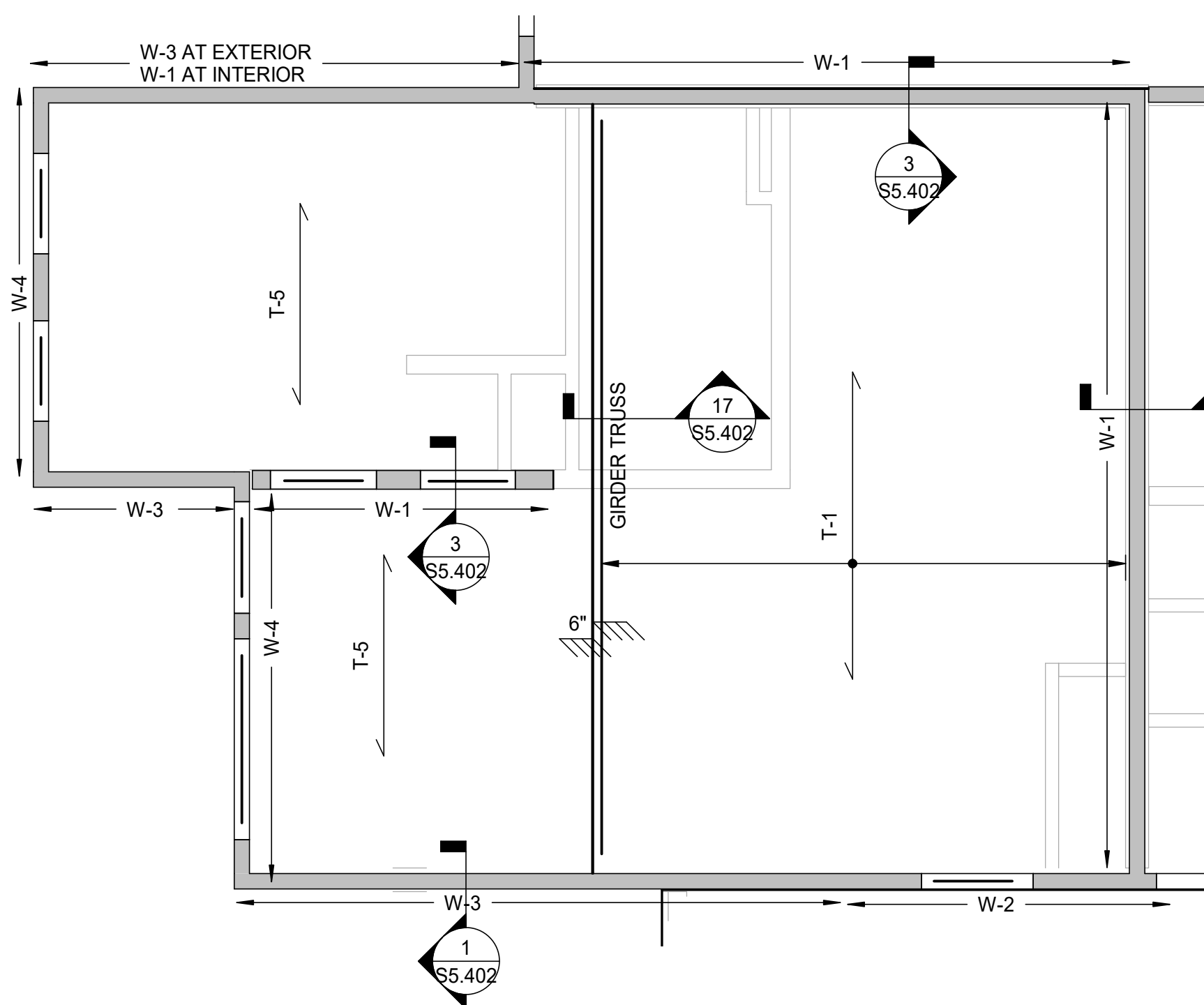
3  
S5.105



LEVEL 3 UNIT 2B

SCALE: 1/4" = 1'-0"

2  
S5.105




LEVEL 3 UNIT 1B

SCALE: 1/4" = 1'-0"

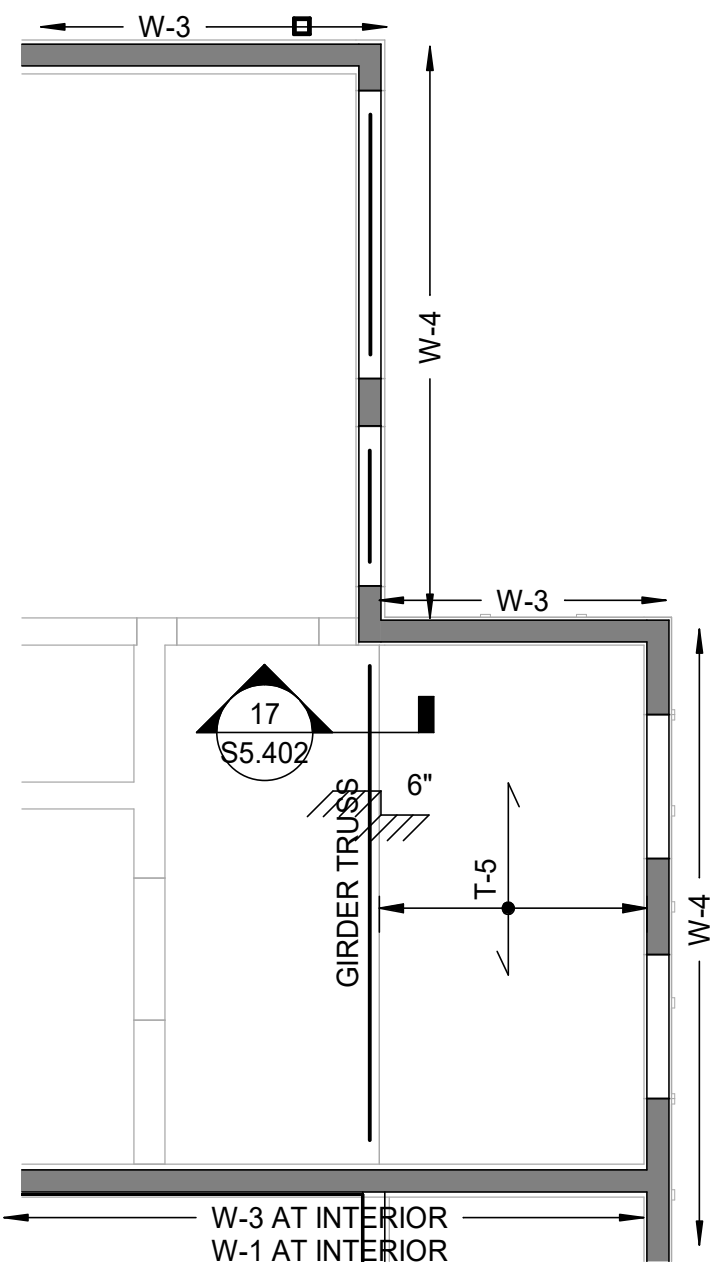
1  
S5.105

### LEVEL 3 UNIT FRAMING GENERAL NOTES:

#### NOTES:

1. TYPICAL FLOOR CONSTRUCTION SHALL BE AS FOLLOWS: UP TO 1" THICK GYPCRETE TOPPING OVER 23/32" (3/4") APA RATED STURDI-FLOOR TONGUE AND GROOVE PANELS GLUED AND SCREWED TO 18" TRUSSES OVER 2x WOOD BEARING WALLS. SEE S5.401 FOR SCHEDULE AND TRUSS LOADING INFORMATION.
2. INTERIOR TOP OF SHEATHING = 32.00' @ LEVEL 3 TYP.
3. SEE S5.401 FOR TYPICAL HEADERS, STUDS AT OPENINGS, BEAM AND COLUMN SCHEDULES.
4.  DENOTES BEARING WALL.
5. SEE LEVEL 3 FRAMING PLAN ON S5.03 FOR SHEAR WALL LOCATIONS AND NOTES.
6. TYPICAL CONDITIONS ARE APPLICABLE EVEN IF SECTIONS ARE NOT SHOWN.

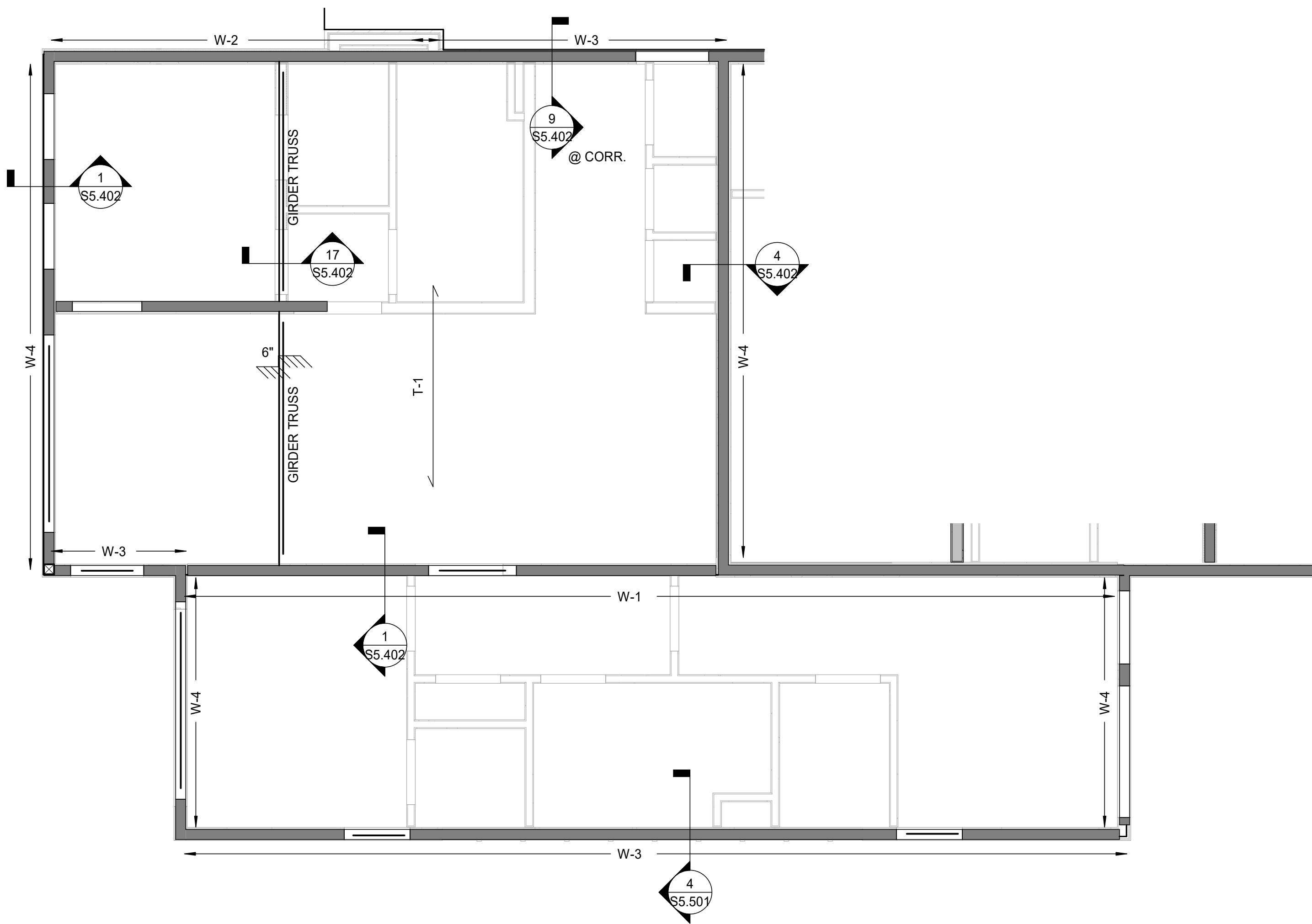
TRUSS/JOIST SHOP DRAWING SUBMITTAL SHALL BE COORDINATED WITH  
AND SHALL SHOW ALL BATHTUB, SHOWER AND TOILET DRAINS AND ALL  
MECHANICAL SHAFTS. ADJUST JOIST SPACING AND/OR ADD JOISTS AND  
HEADERS TO CLEAR PLUMBING & MECHANICAL.



LEVEL 3 PLAN PARTIAL PLAN

SCALE: 1/4" = 1'-0"

5  
S5.105



LEVEL 3 UNIT 3A

SCALE: 1/4" = 1'-0"

4  
S5.105



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S5.105  
UNIT FRAMING PLANS



©2020

www.3north.com  
804 232 8900

REVISIONS

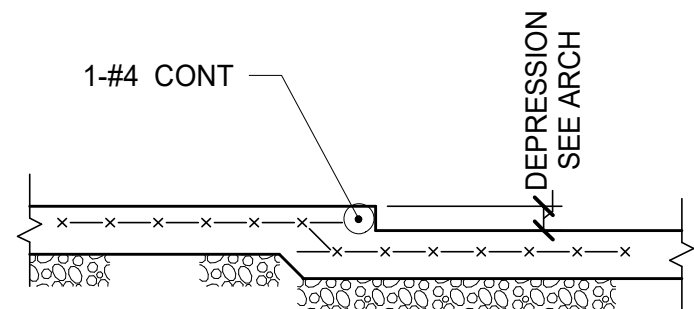
PERMIT

PERMIT SET

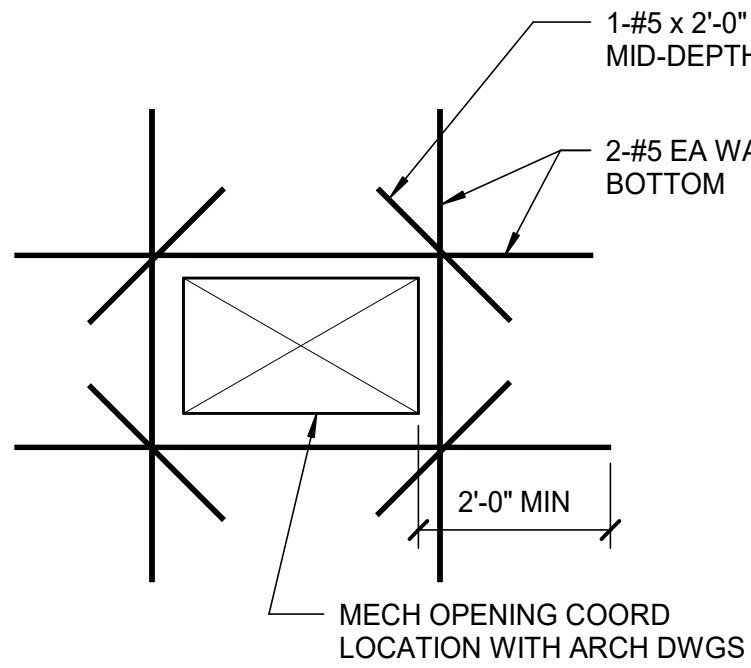
06/11/2021

RECORD

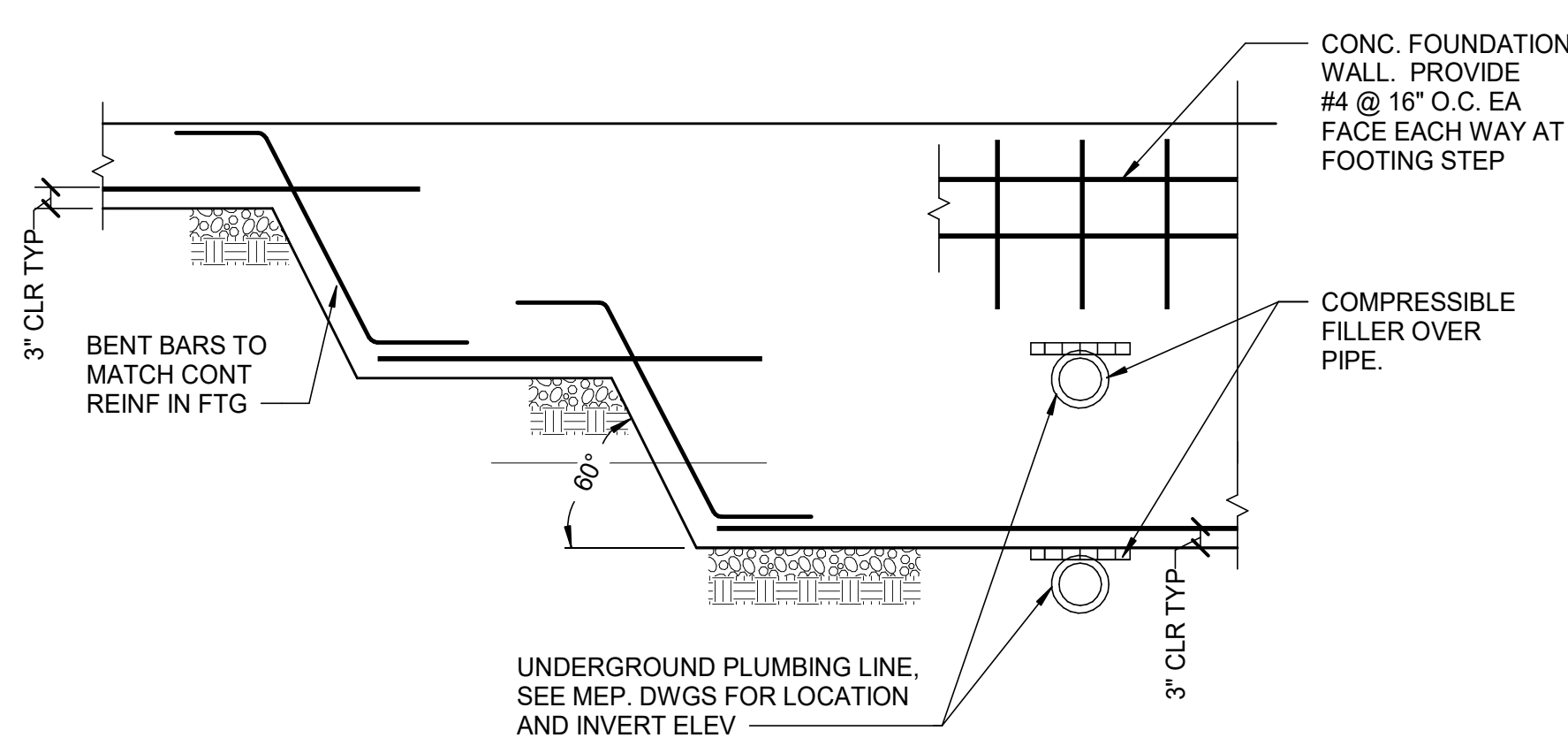




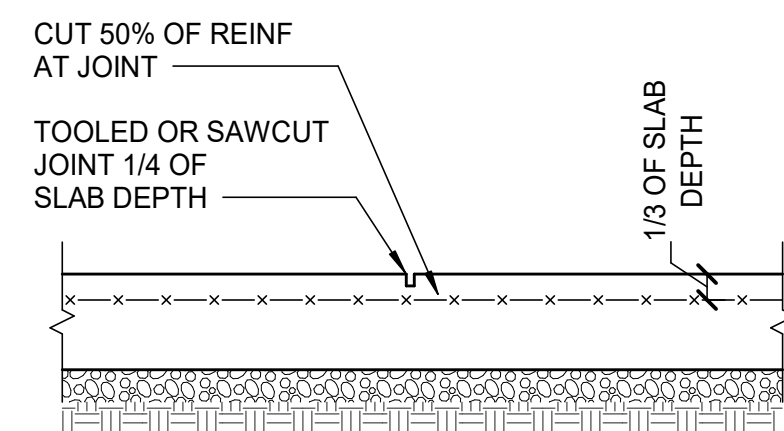
TYPICAL FLOOR DEPRESSION



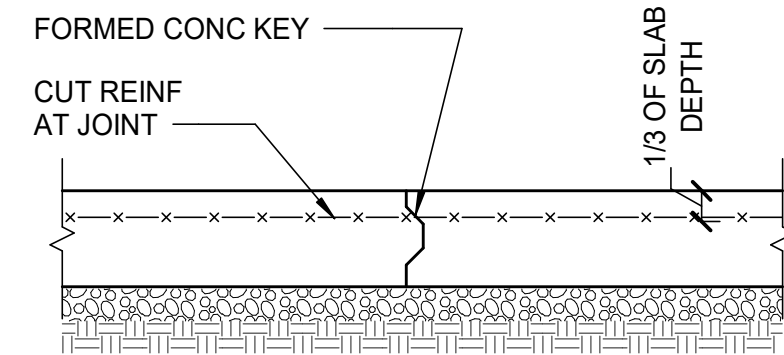
TYPICAL OPENING REINFORCEMENT @ SLAB ON GRADE BLOCK-OUTS



TYPICAL FOOTING STEP (F.S.)



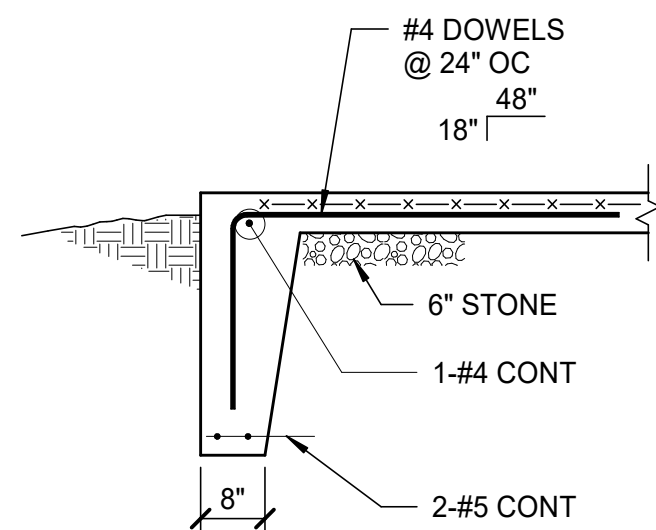
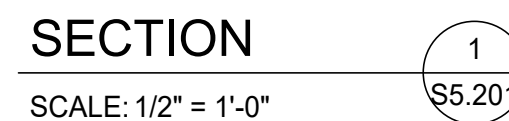
TYPICAL SLAB CONTROL JOINT



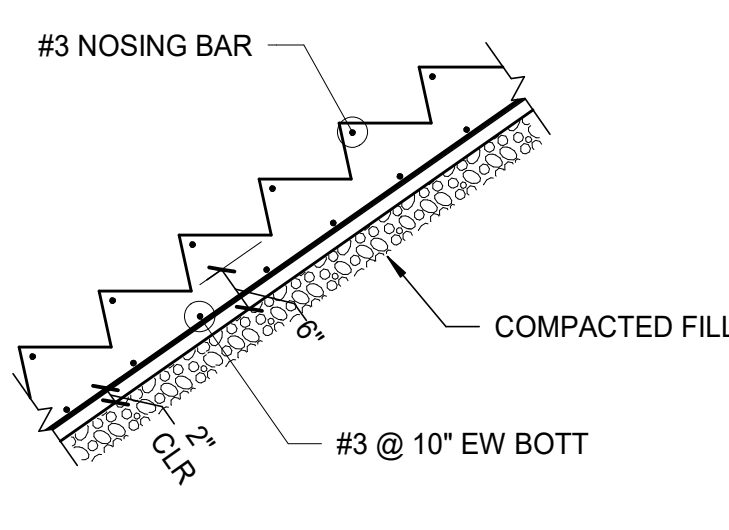
TYPICAL SLAB CONSTRUCTION JOINT

FOOTING SCHEDULE			
MARK	SIZE	BOTTOM REINFORCING	REMARKS
F1	3'-0"x3'-0"x12"	3-#4 BOTT E.W.	
F2	4'-0"x4'-0"x12"	4-#4 BOTT E.W.	
F3	3'-0"x3'-0"x24"	3-#4 BOTT E.W.	

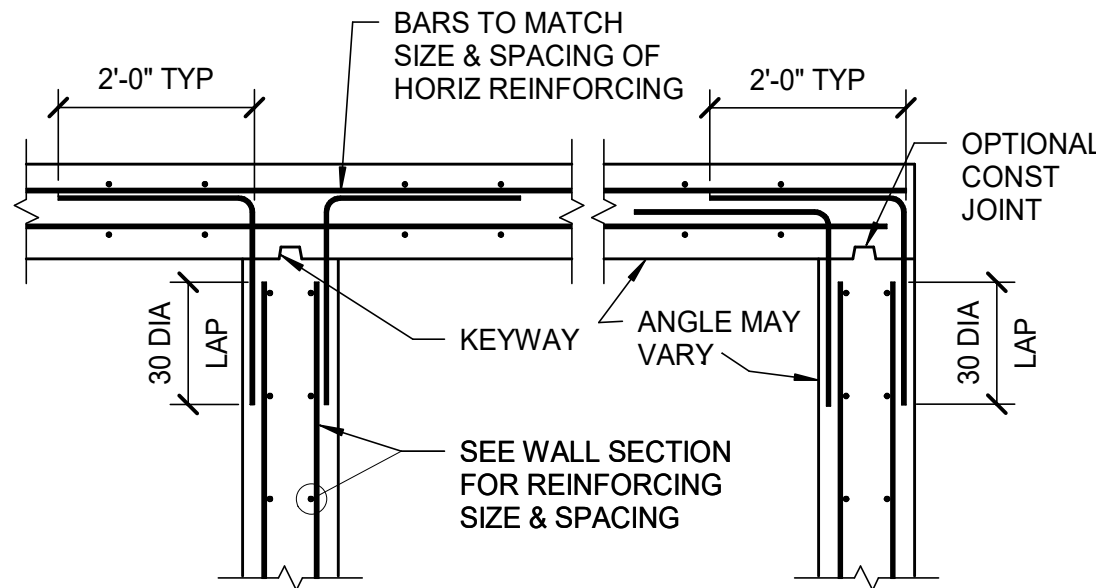
PIER SCHEDULE				
MARK	SIZE	REINFORCING		REMARKS
		VERTICAL	TIES	
P1	12" x 12"	4-#5 VERT	#3 @ 6" OC	



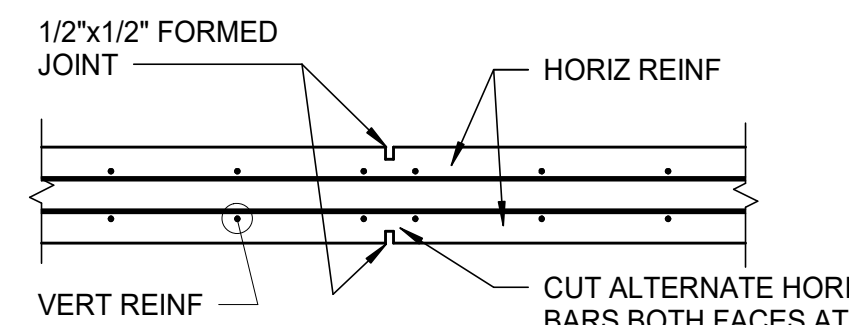
TURN DOWN SLAB EDGE



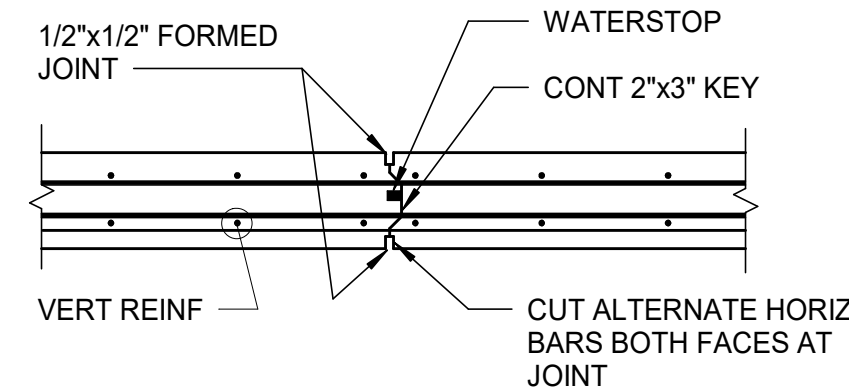
TYPICAL CONCRETE STAIRS



TYPICAL REINFORCING AT WALL INTERSECTIONS

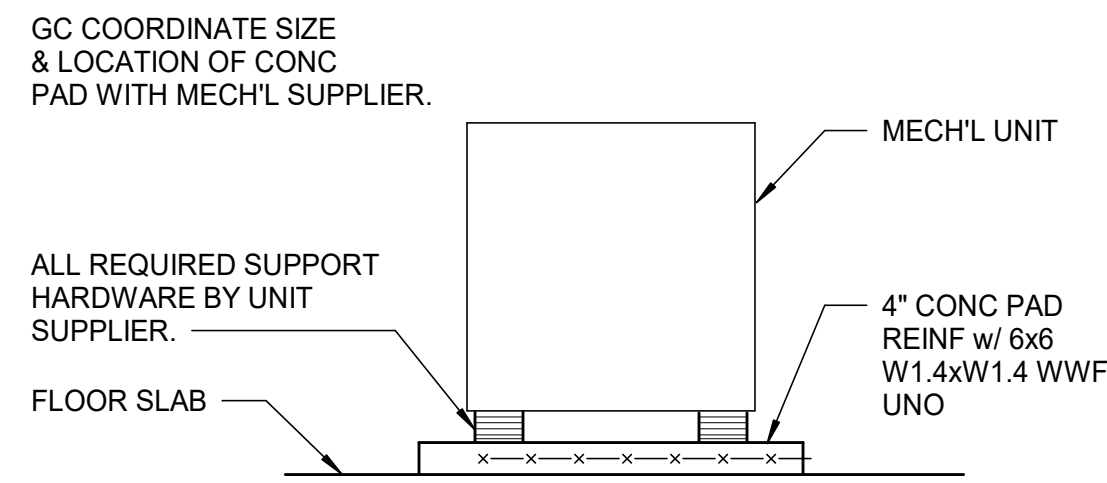


TYPICAL WALL CONTROL JOINT

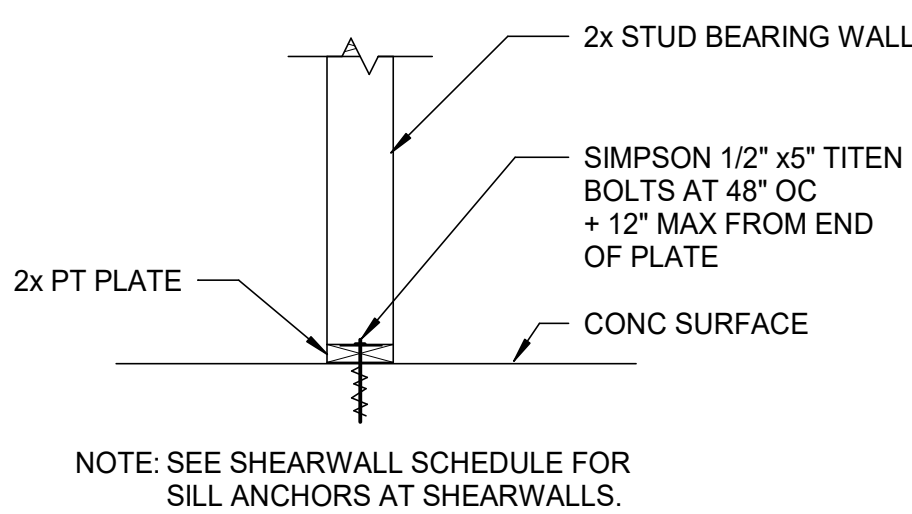
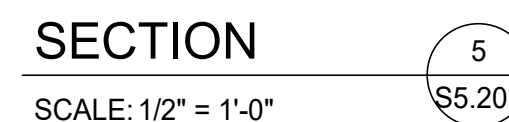
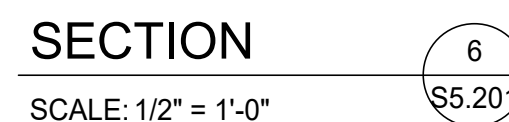
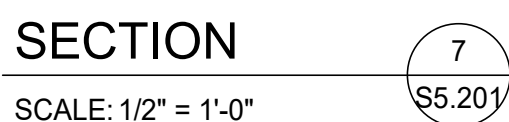
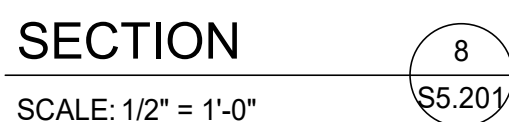
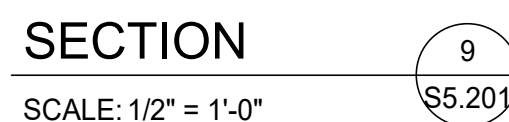


TYPICAL WALL CONSTRUCTION JOINT

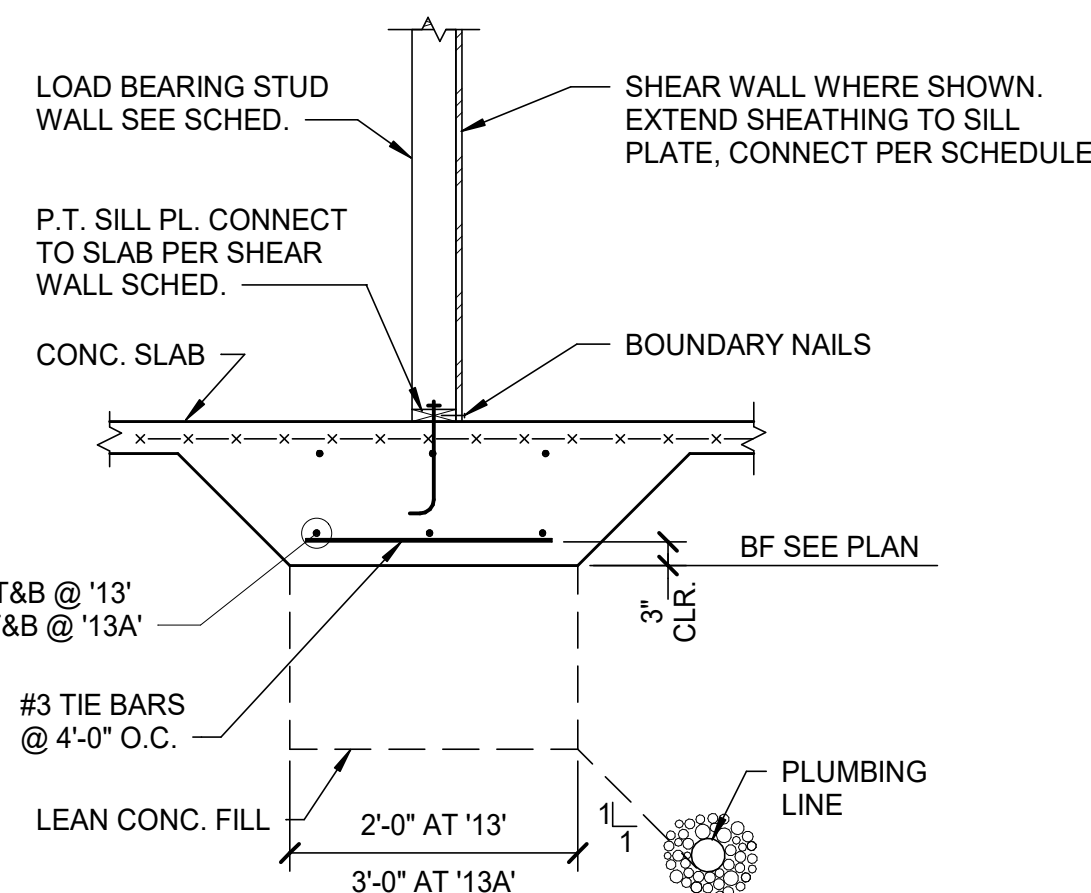
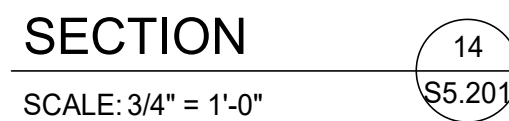
- NOTES:  
1. PROVIDE CONTROL OR CONSTRUCTION JOINT AT 30'-0" MAX SPACING.  
2. LOCATE FIRST JOINT NO FURTHER THAN 15'-0" FROM CORNER.



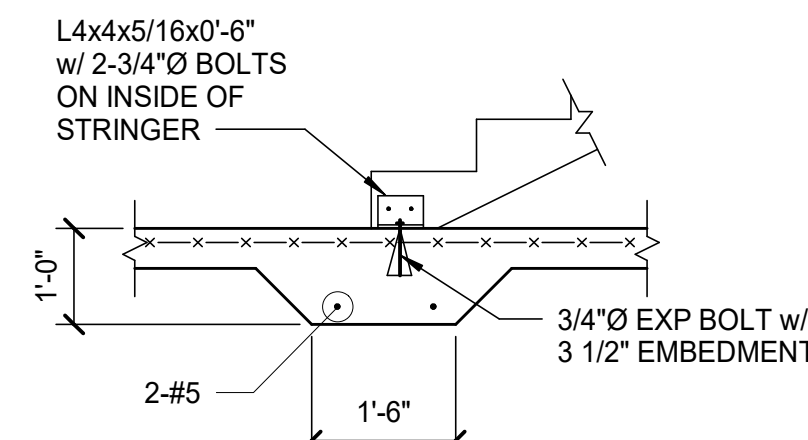
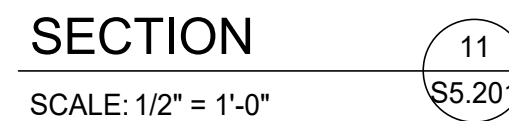
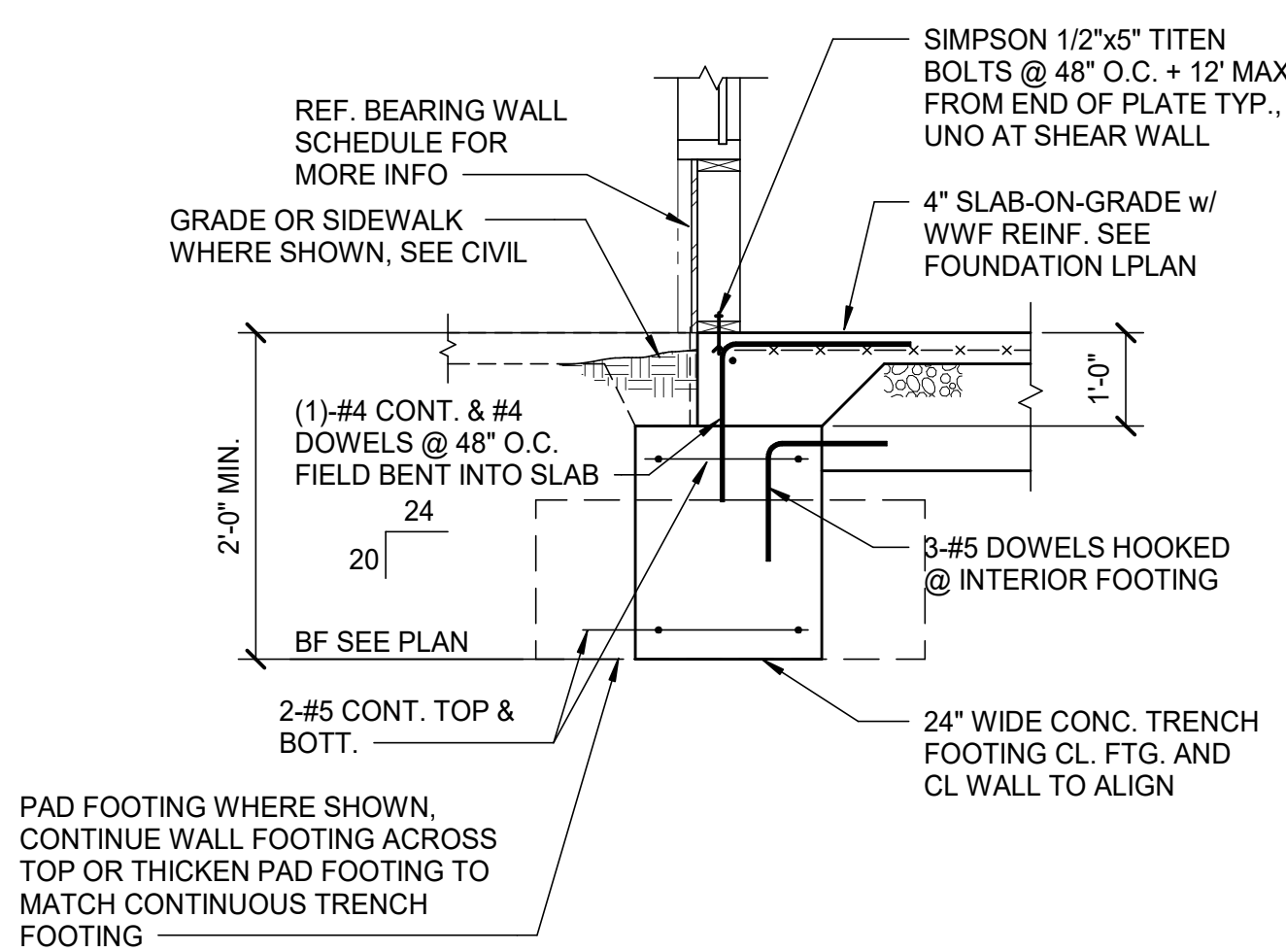
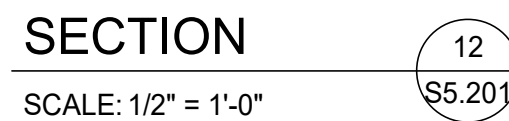
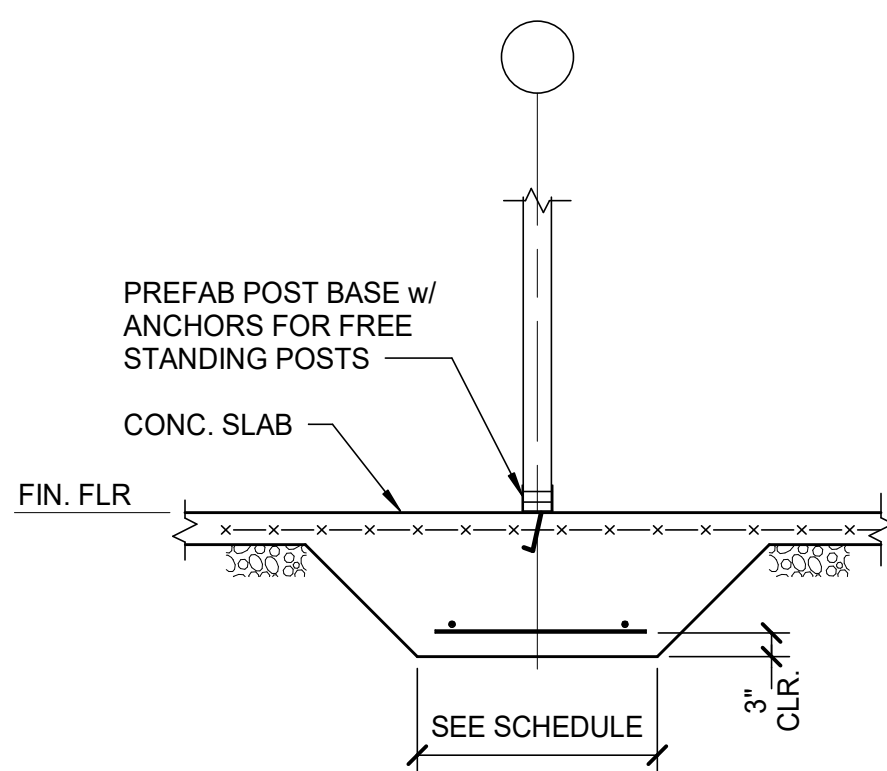
TYPICAL HOUSEKEEPING PAD



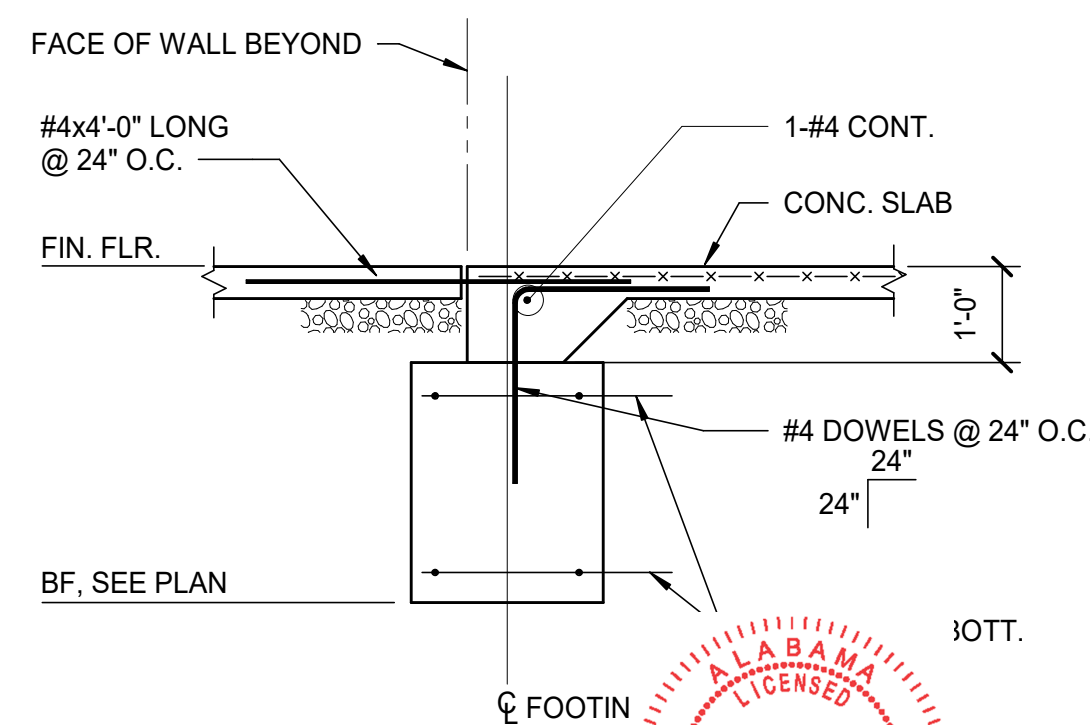
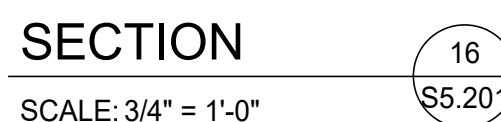
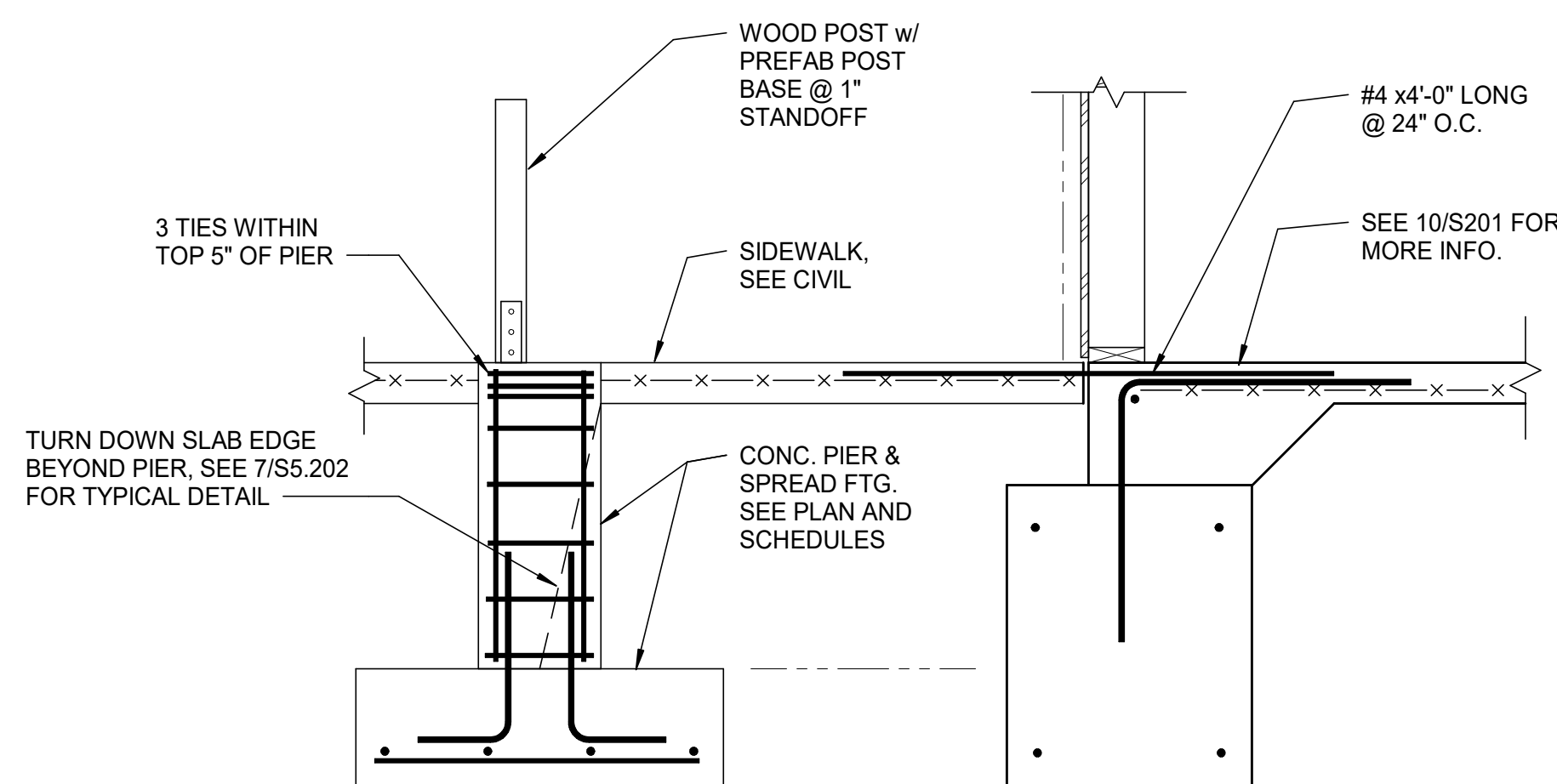
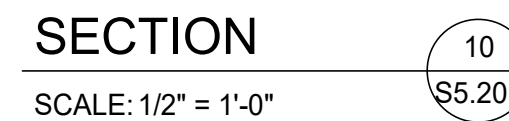
TYPICAL WOOD PLATE TO CONC ANCHORAGE (EXCEPT SHEAR WALLS)



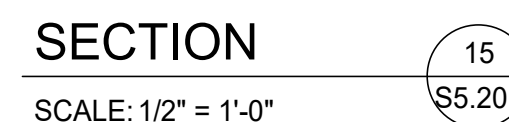
INTERIOR WOOD COLUMN FOOTING



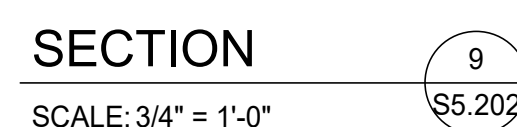
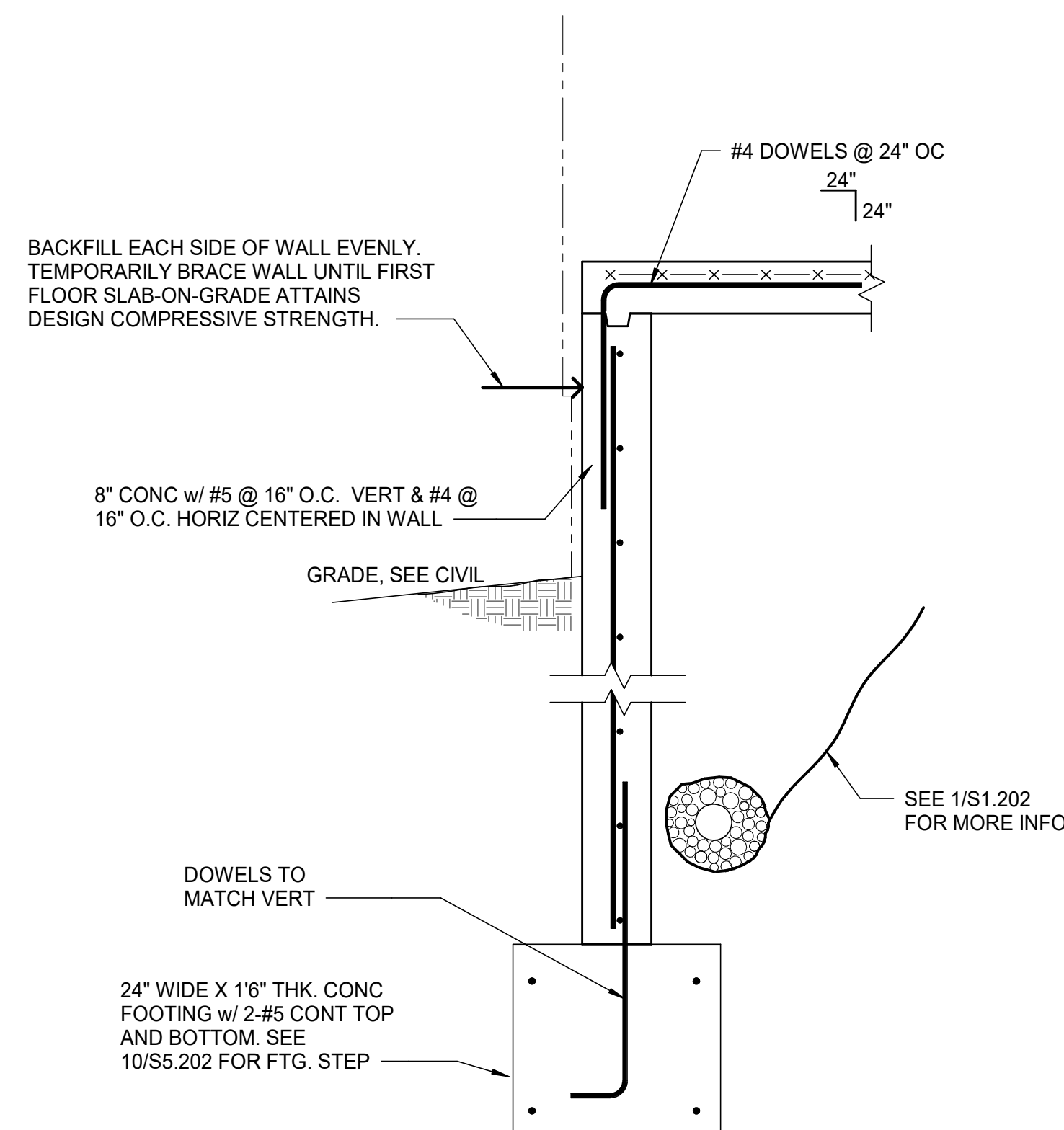
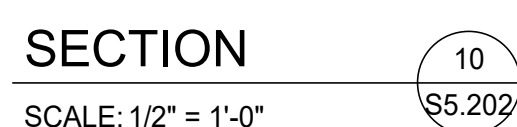
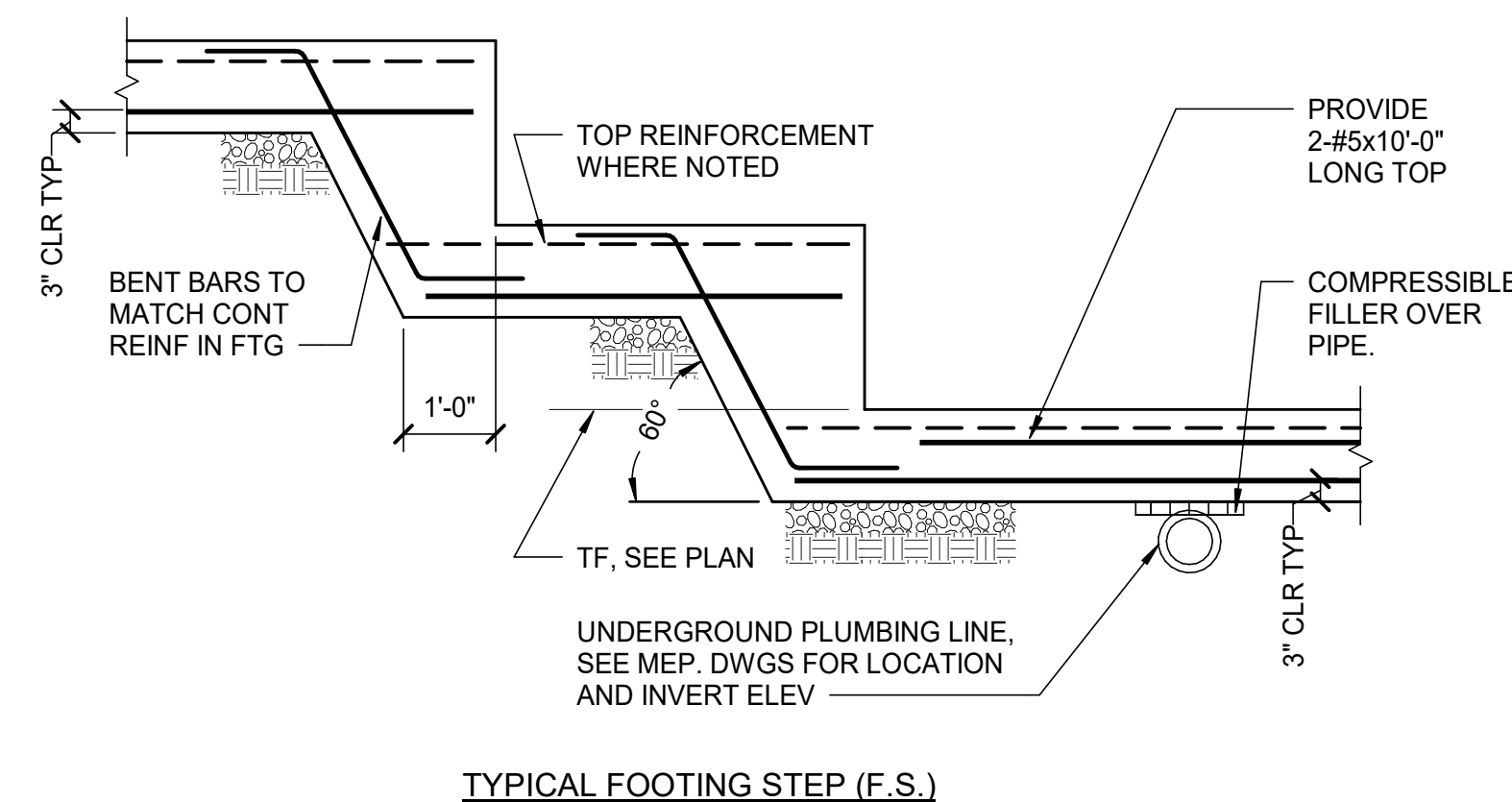
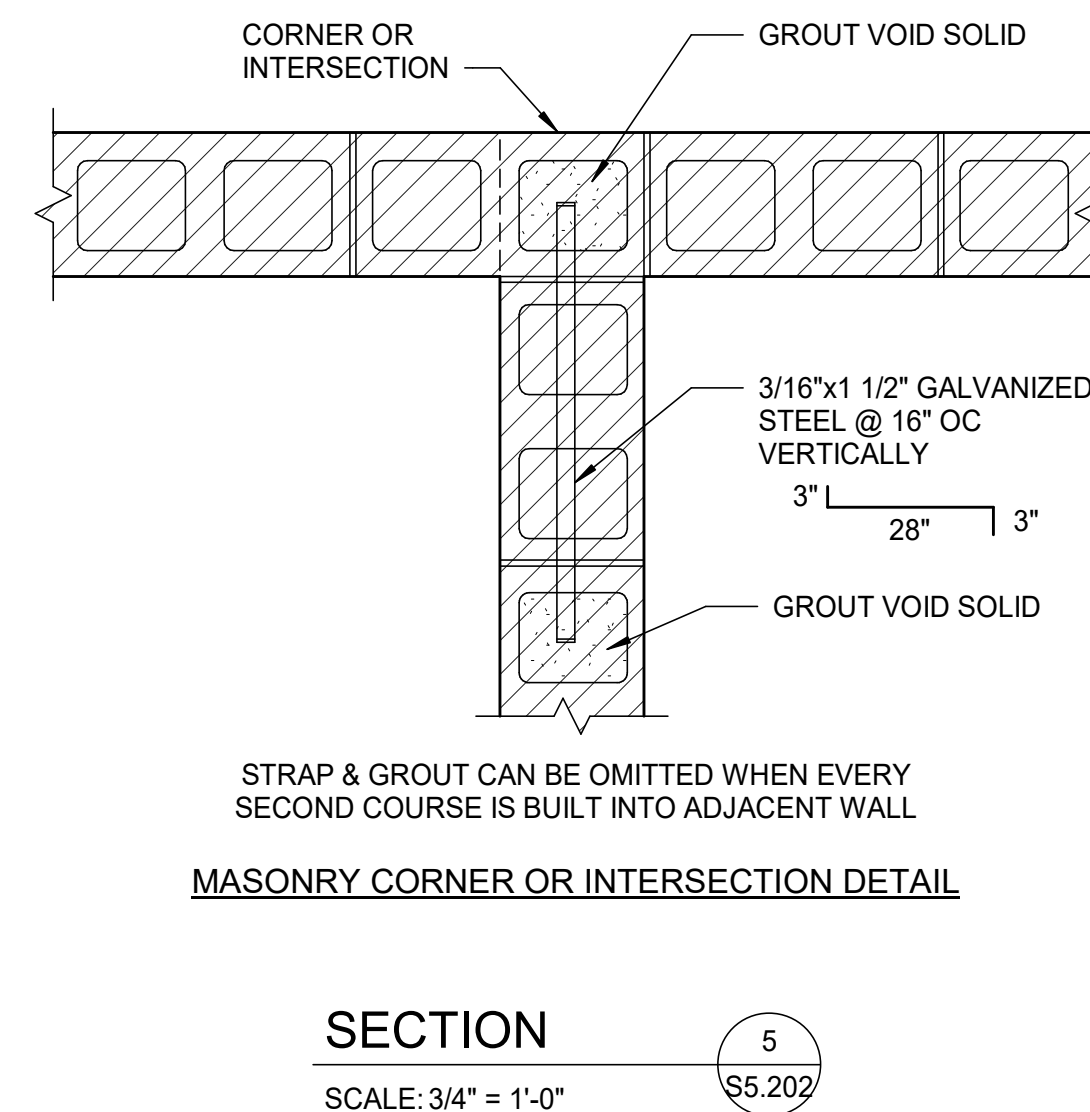
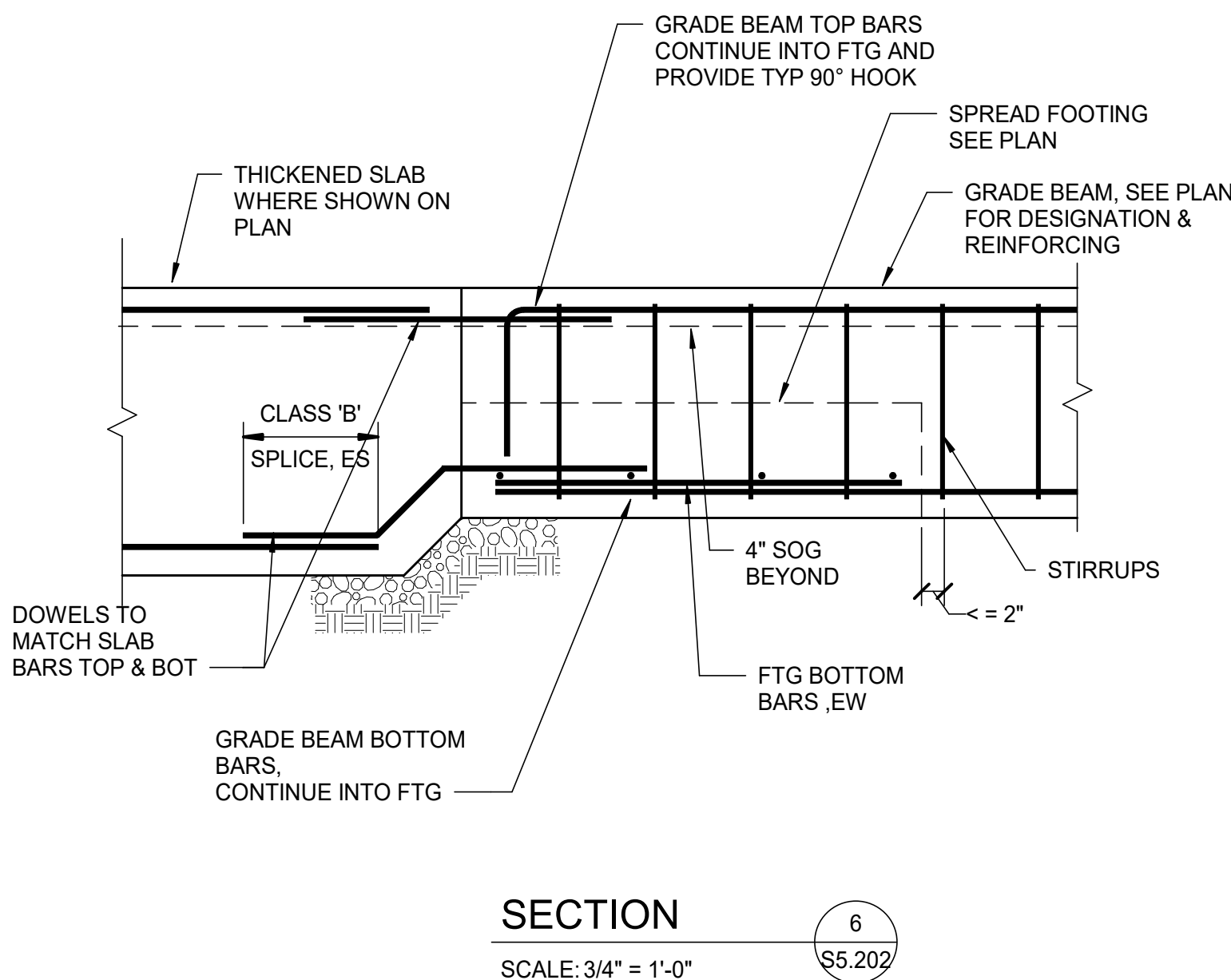
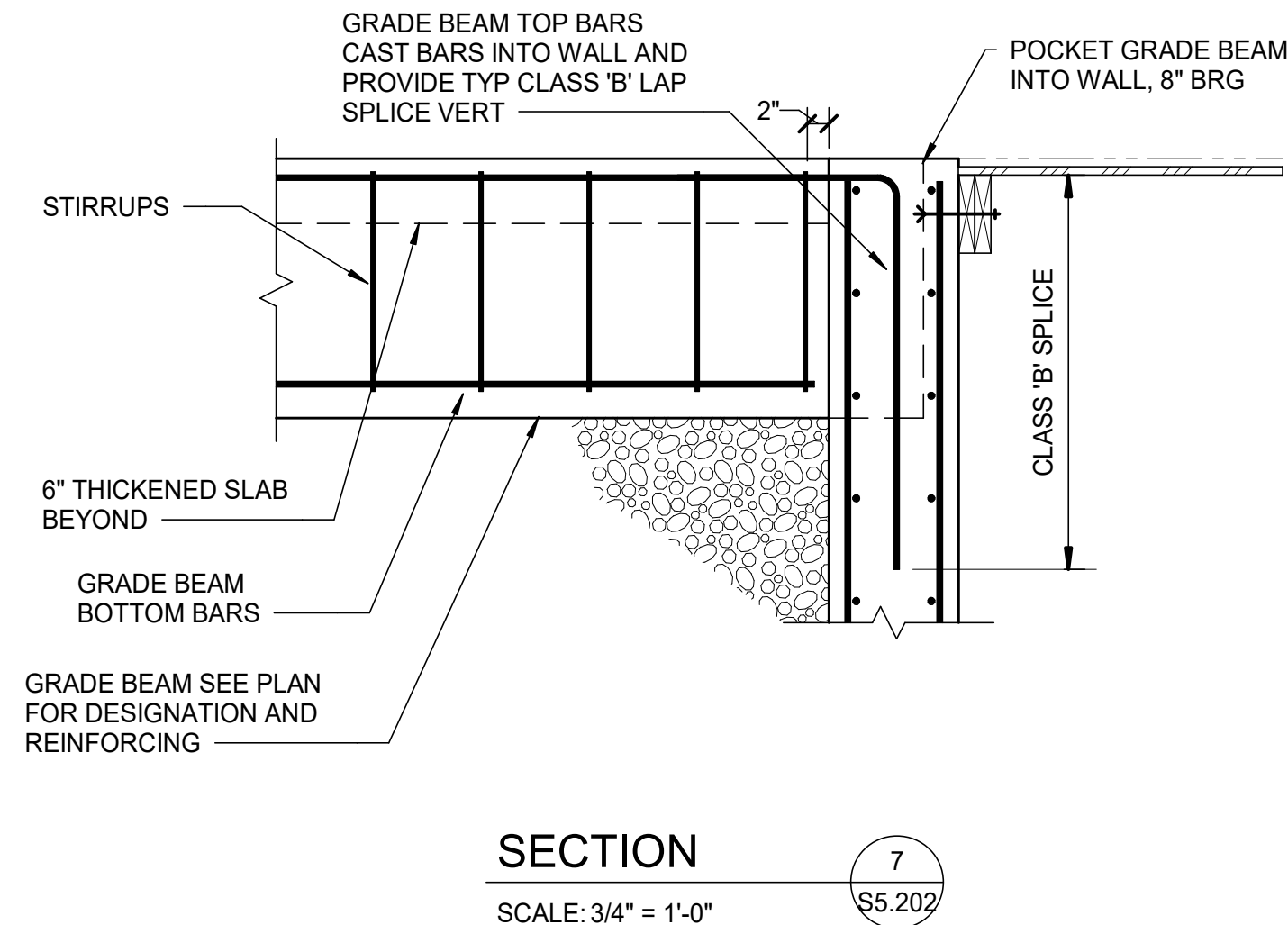
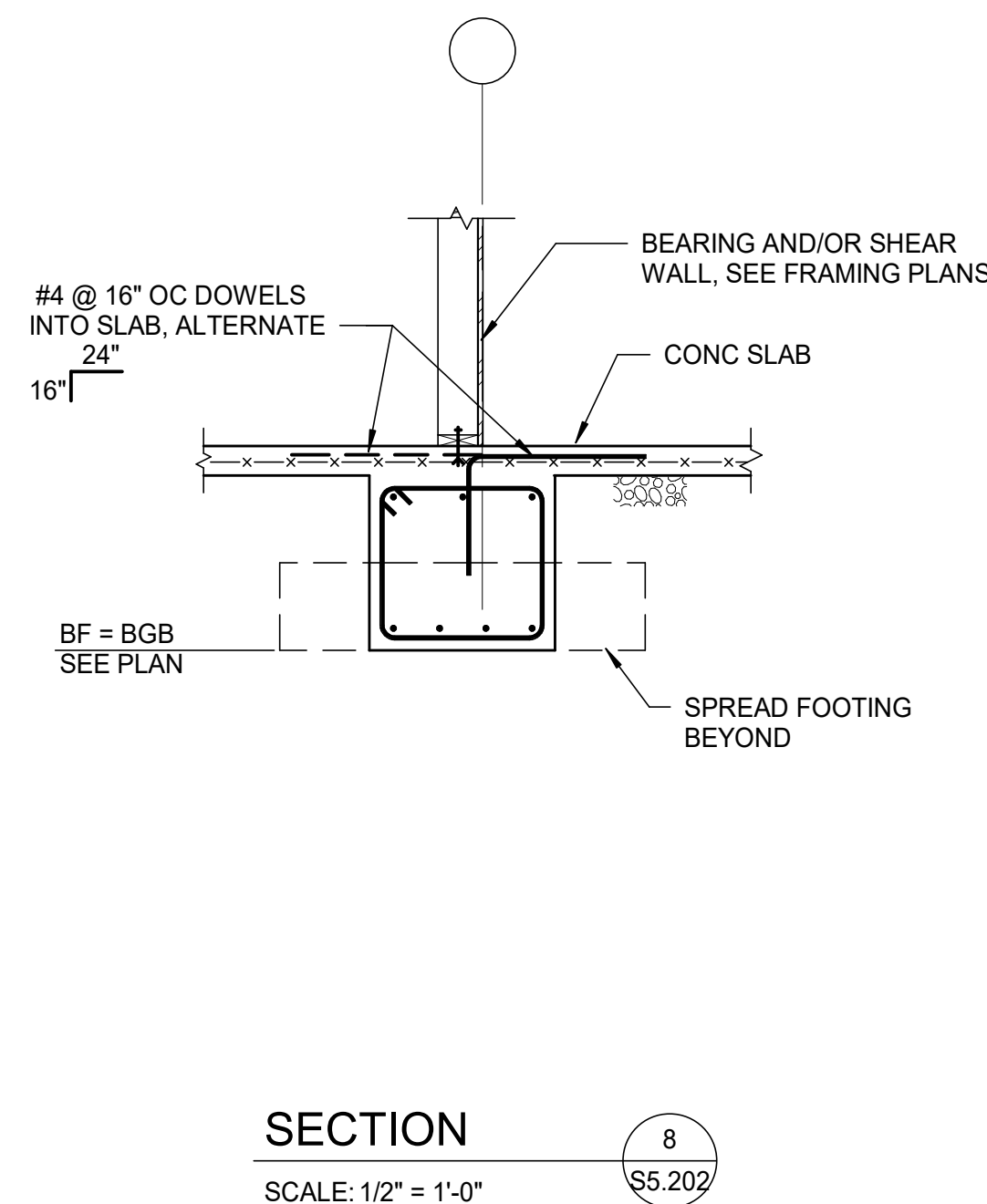
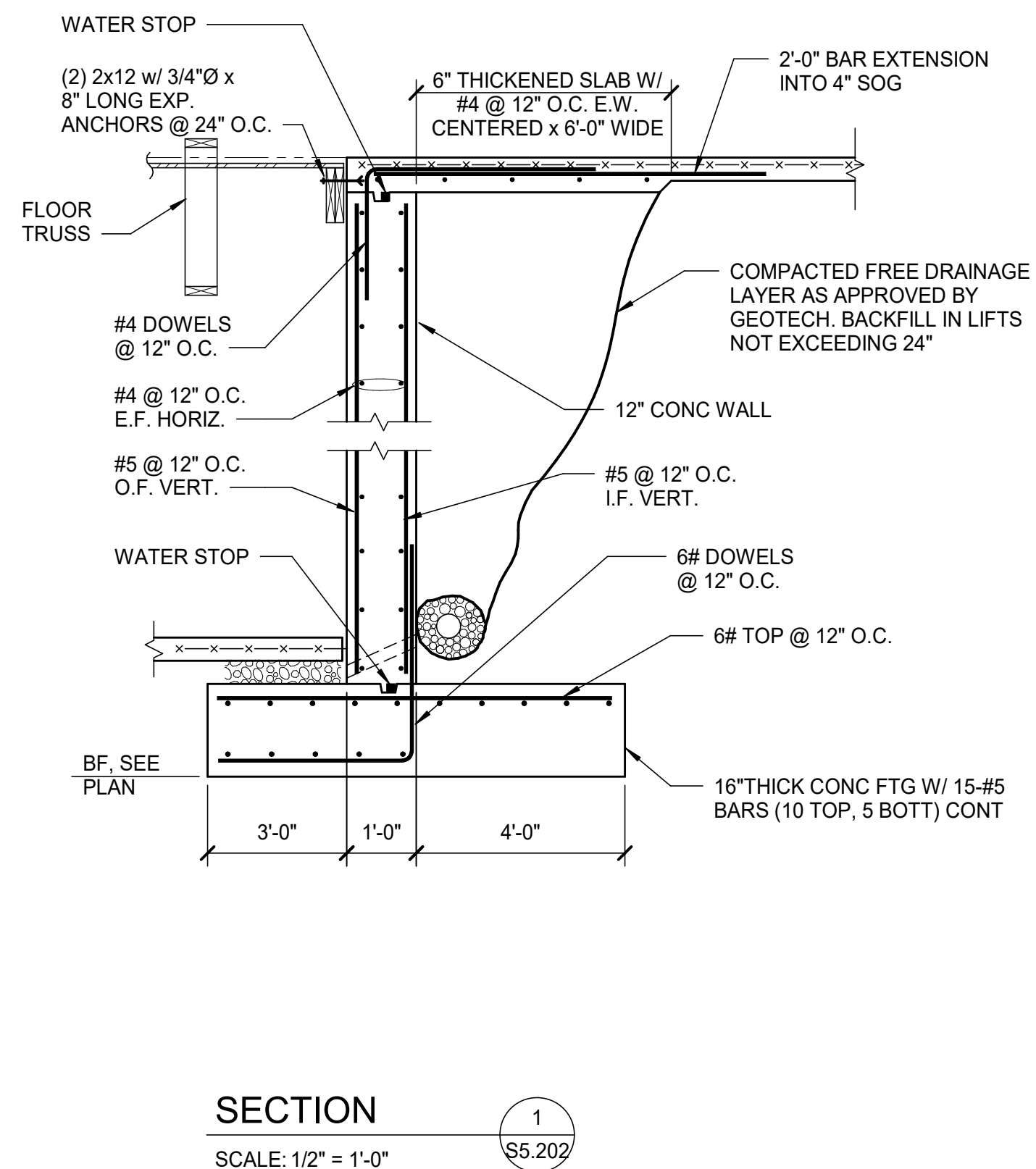
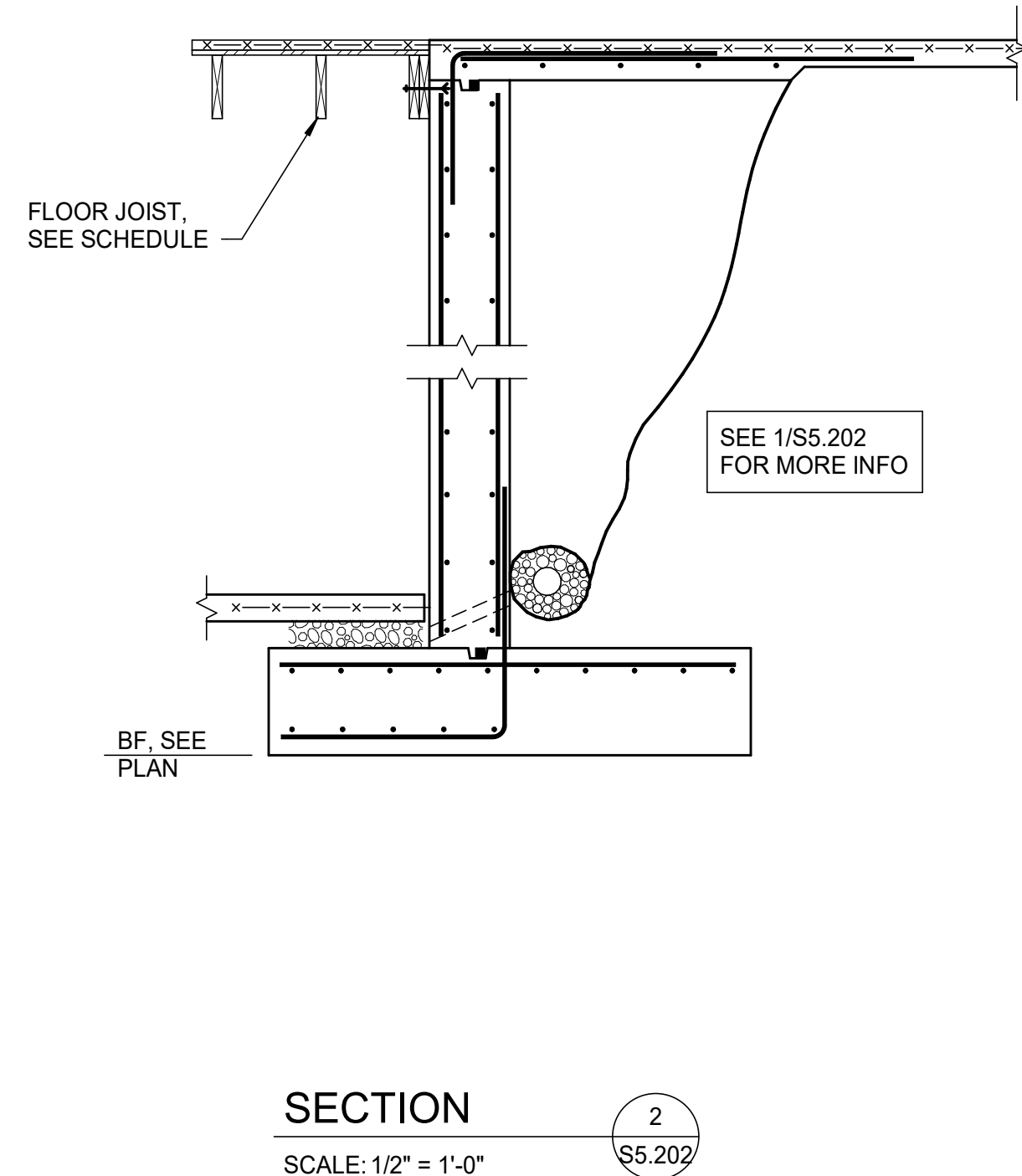
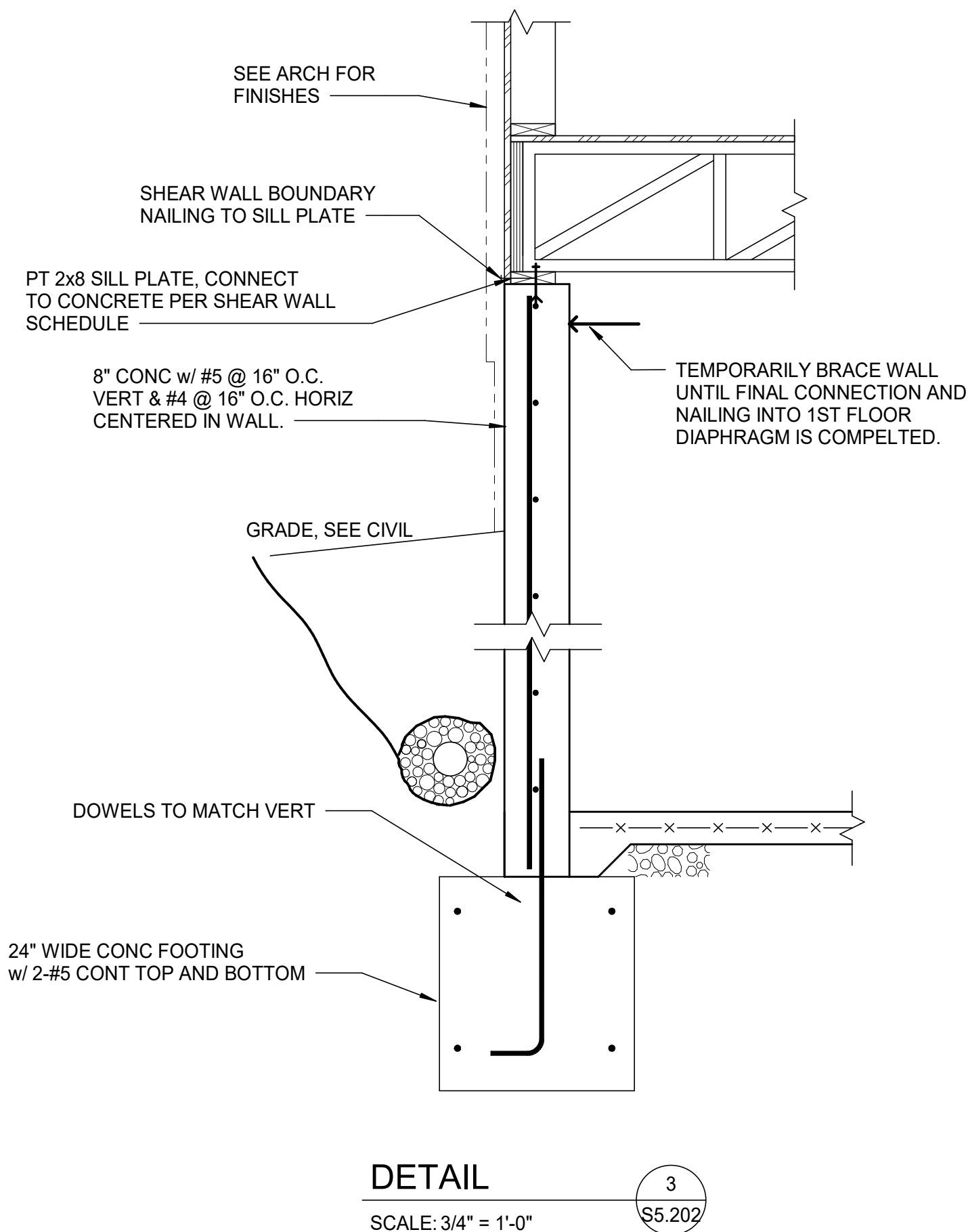
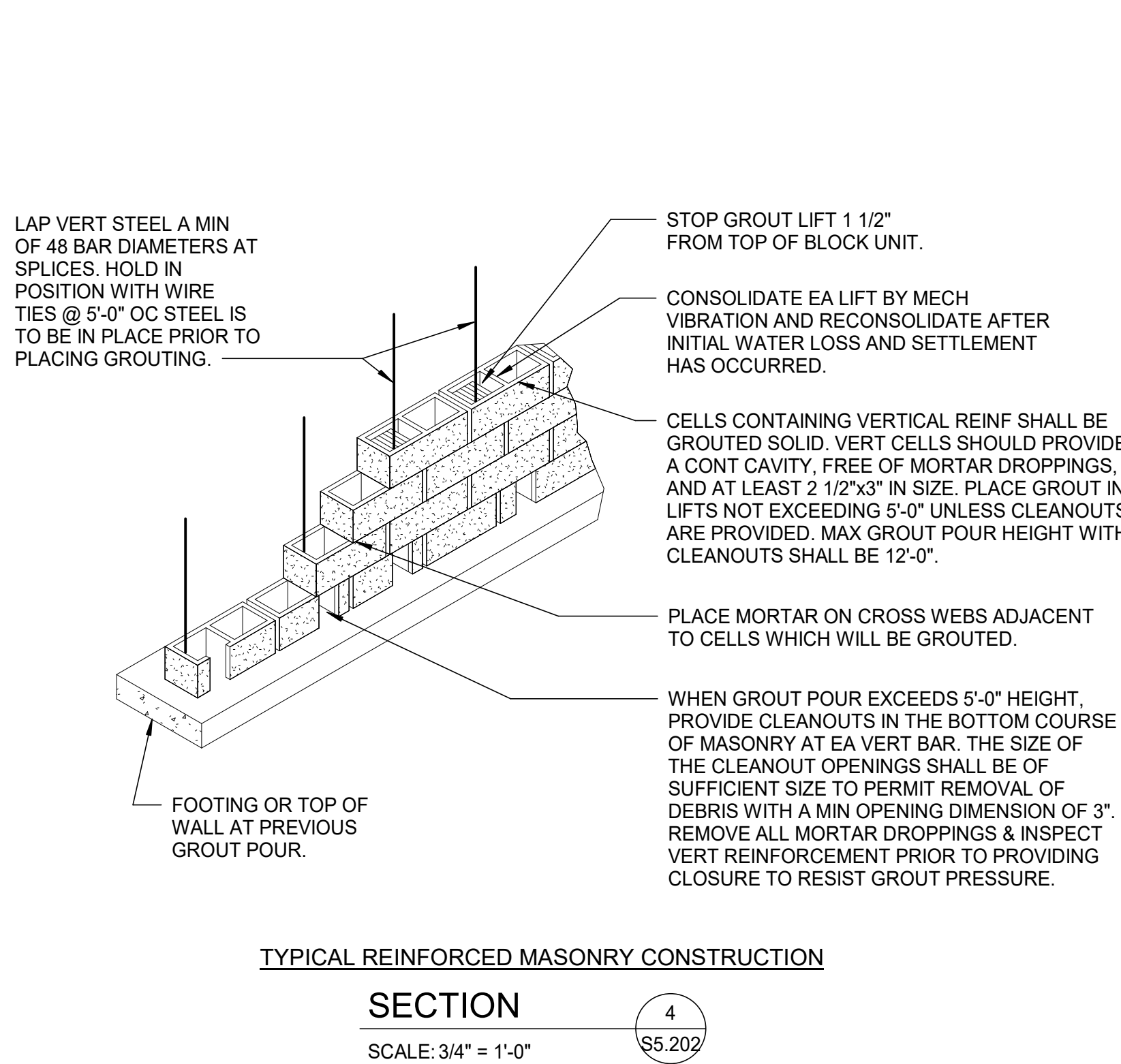
THICKENED SLAB @ STRINGER



TYPICAL SECTION @ DO







TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S5.202  
FOUNDATION SECTIONS  
3 NORTH  
©2020

www.3north.com  
804 232 8900

REVISIONS

PERMIT SET

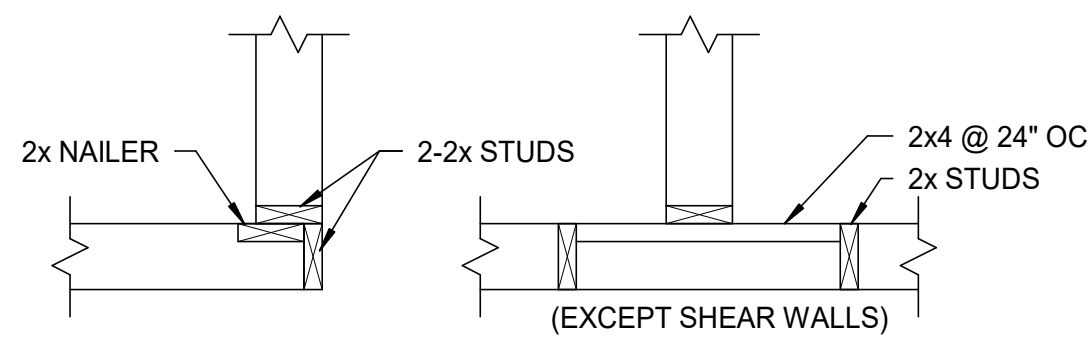
06/11/2021

02/12/21



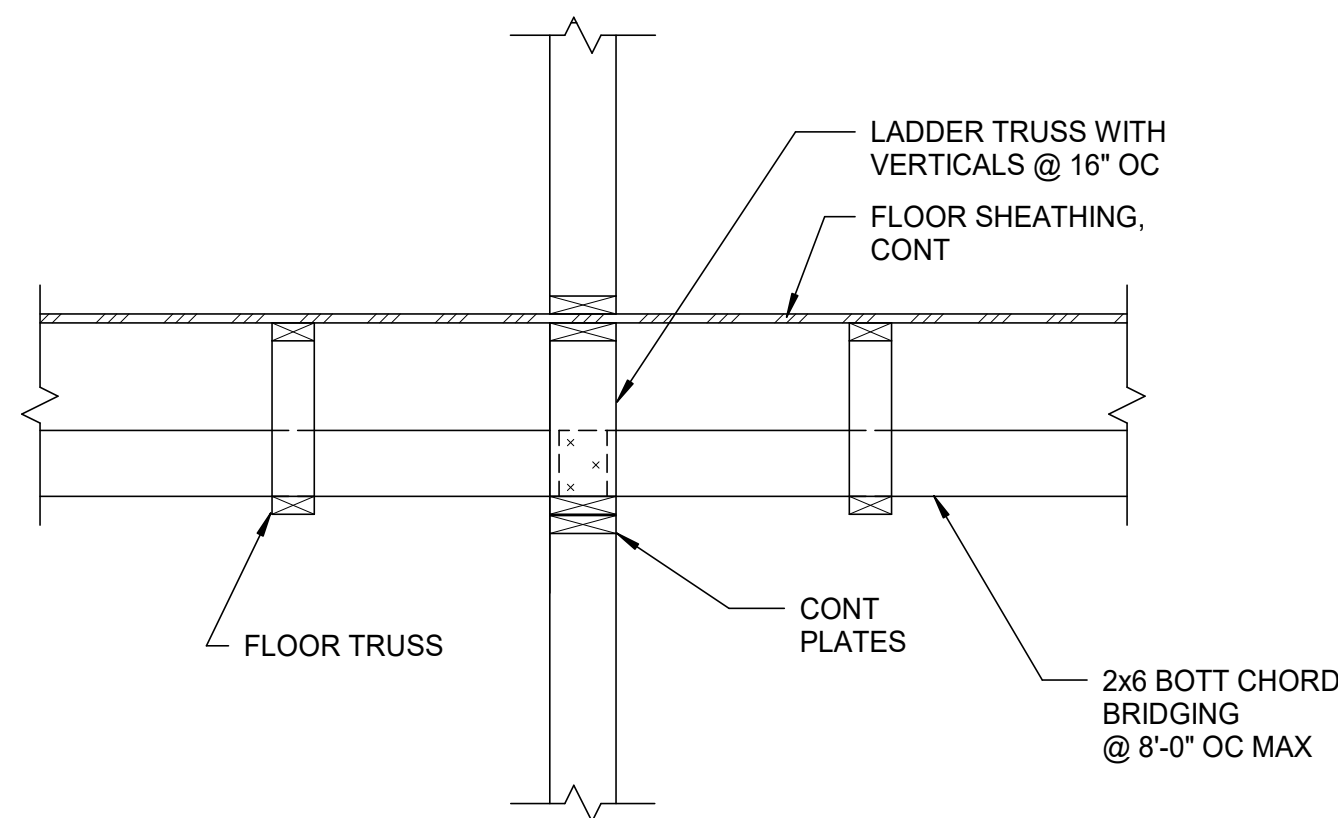






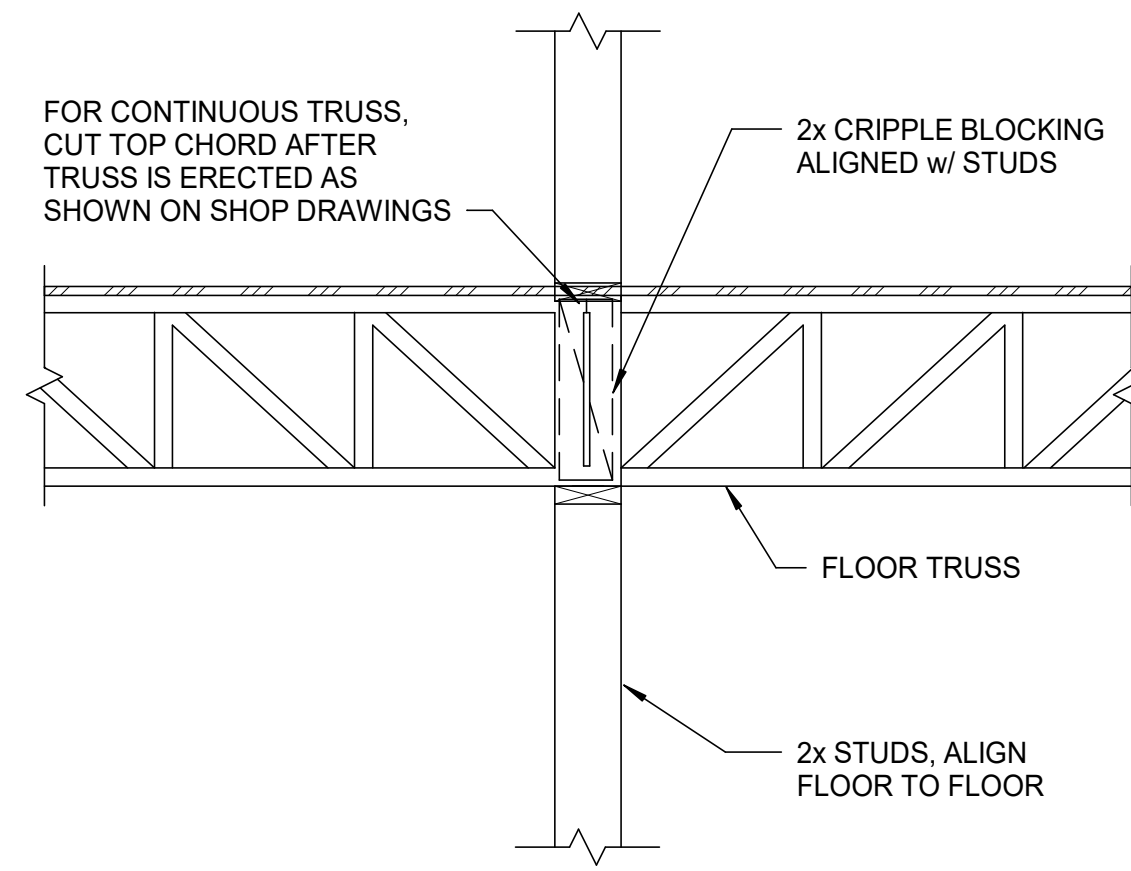
TYPICAL WALL CORNER AND INTERSECTION  
(INTERIOR AND EXTERIOR - TYPE V)

SECTION 5  
SCALE: 3/4" = 1'-0"



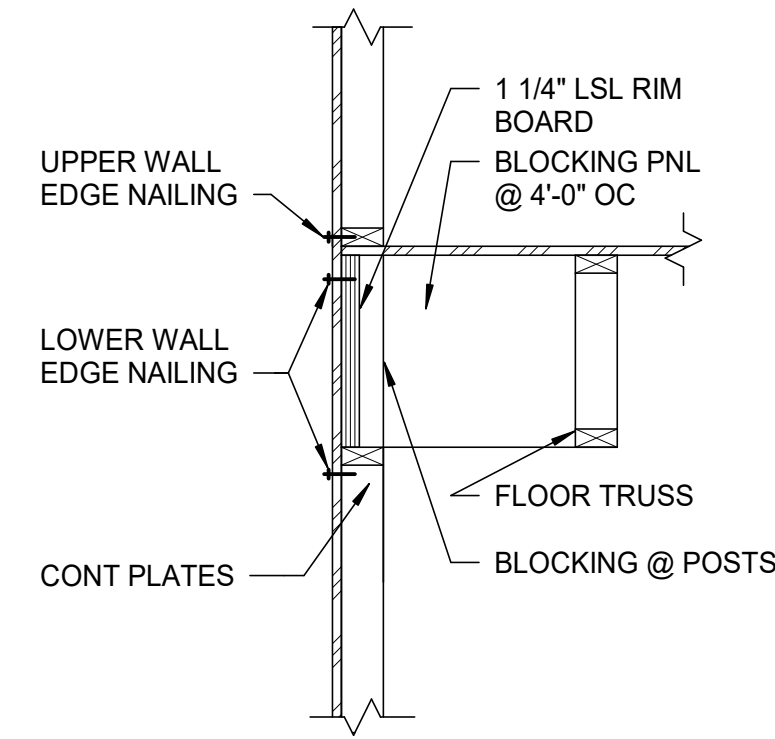
TYPICAL UNIT SEPARATION WALL  
PARALLEL TRUSS - SINGLE WALL

SECTION 4  
SCALE: 3/4" = 1'-0"



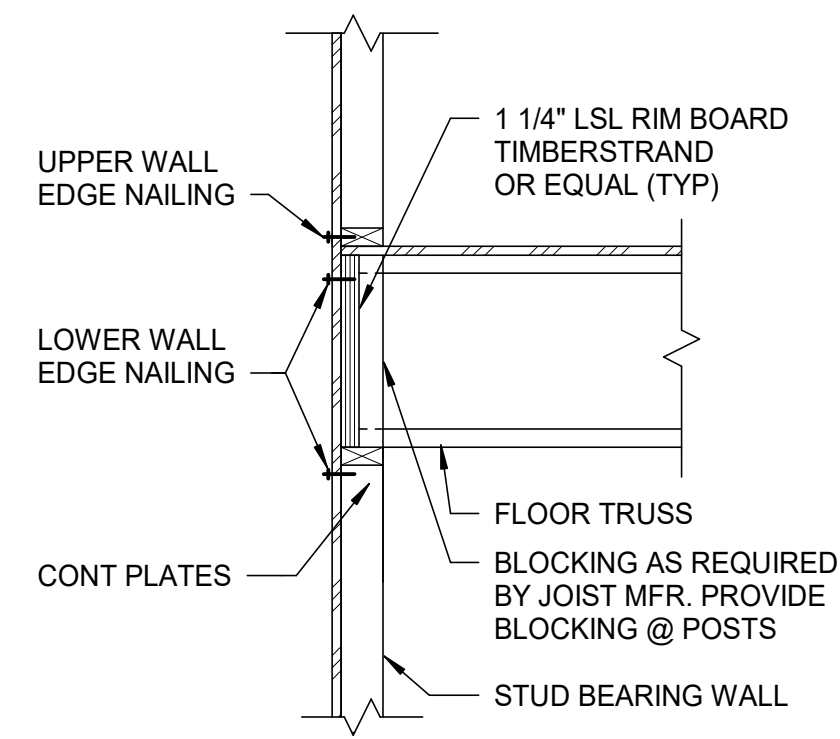
TYPICAL INTERIOR BEARING WALL

SECTION 3  
SCALE: 3/4" = 1'-0"



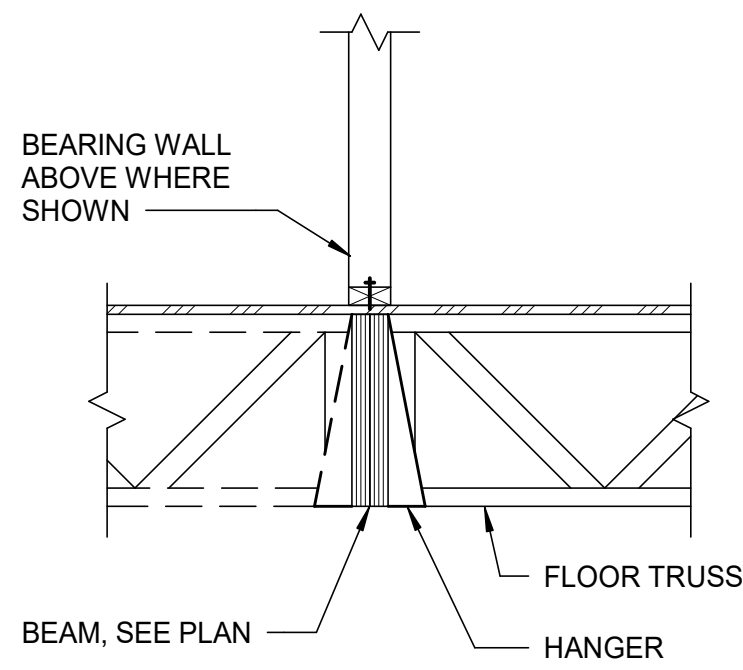
WALL PARALLEL TO JOIST

SECTION 2  
SCALE: 3/4" = 1'-0"



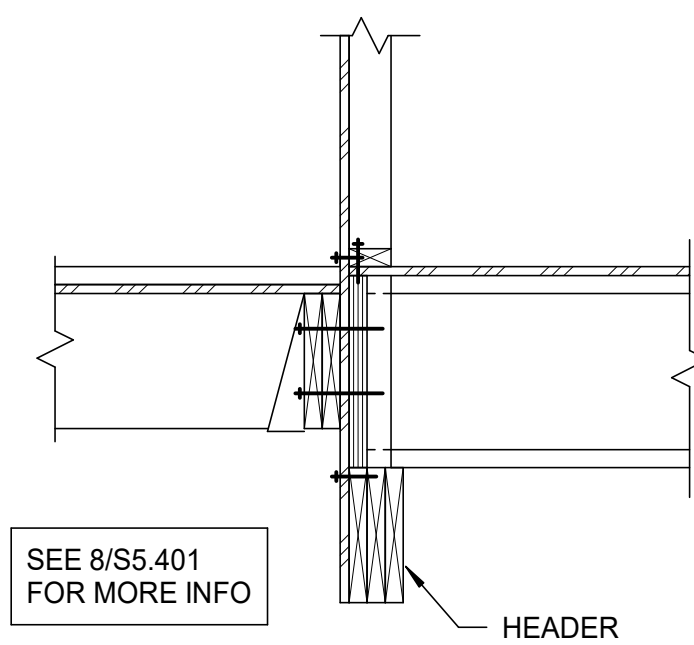
TYPICAL EXTERIOR BRG. WALL

SECTION 1  
SCALE: 3/4" = 1'-0"

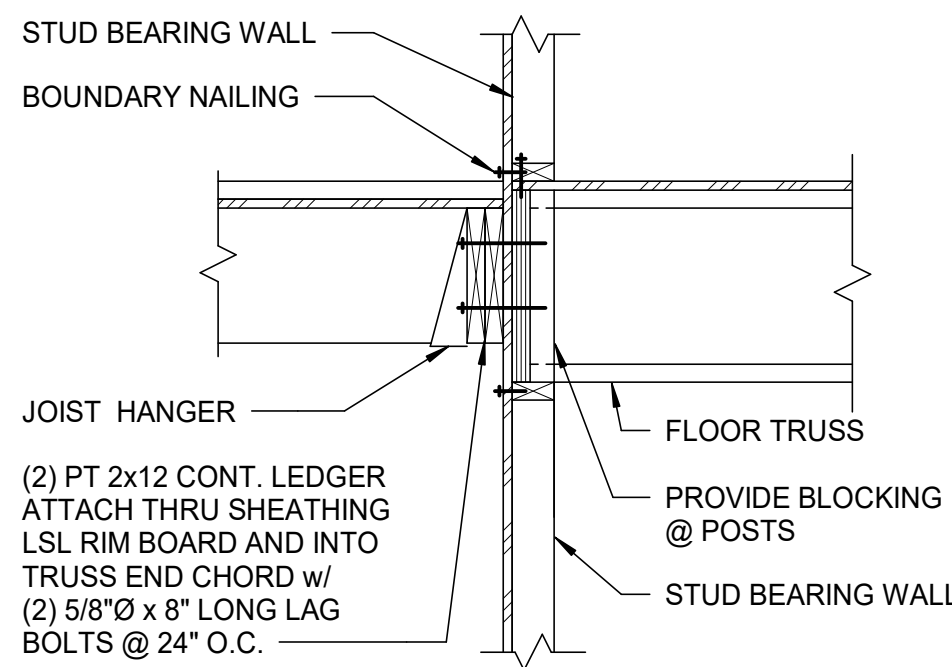


TYPICAL JOIST BRG. ON BEAM

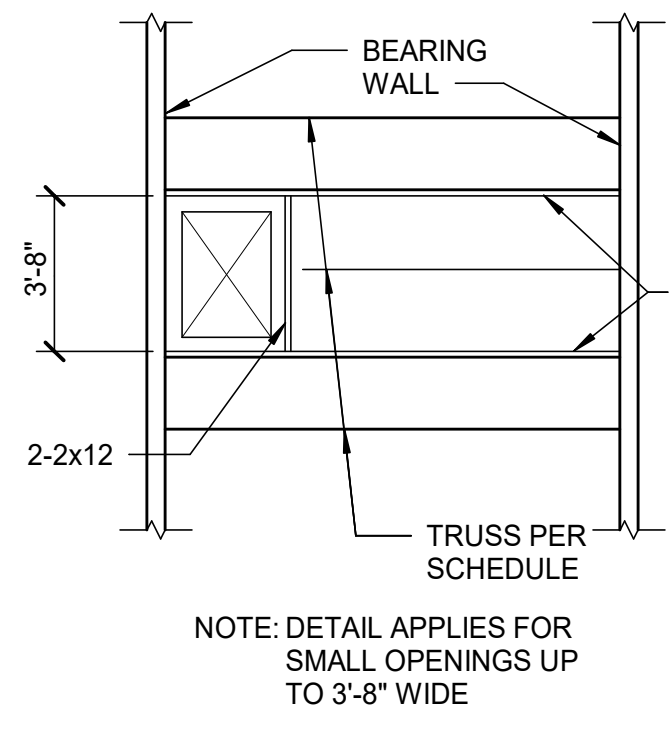
SECTION 10  
SCALE: 3/4" = 1'-0"



SECTION 9  
SCALE: 3/4" = 1'-0"

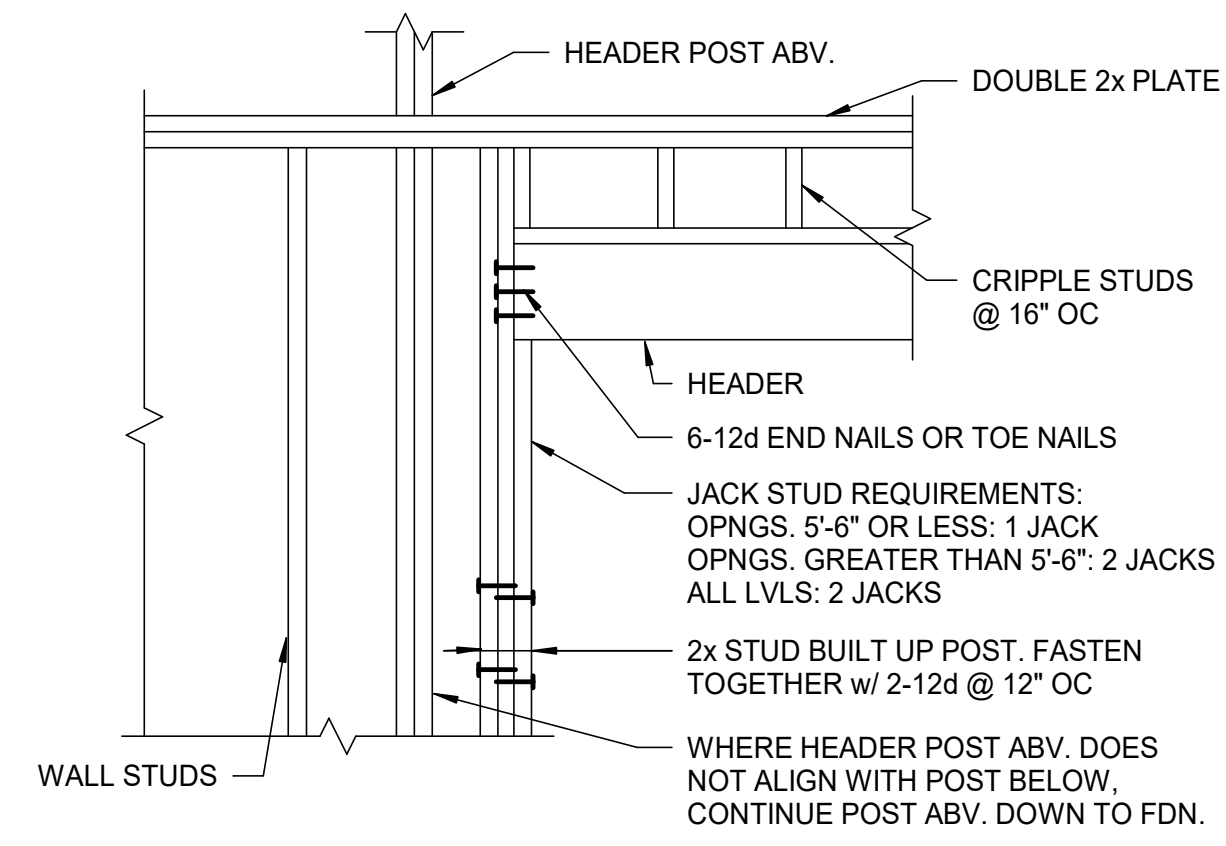


SECTION 8  
SCALE: 3/4" = 1'-0"



TYPICAL SHAFT FRAMING AT TRUSS FLOOR

SECTION 7  
SCALE: T.S.

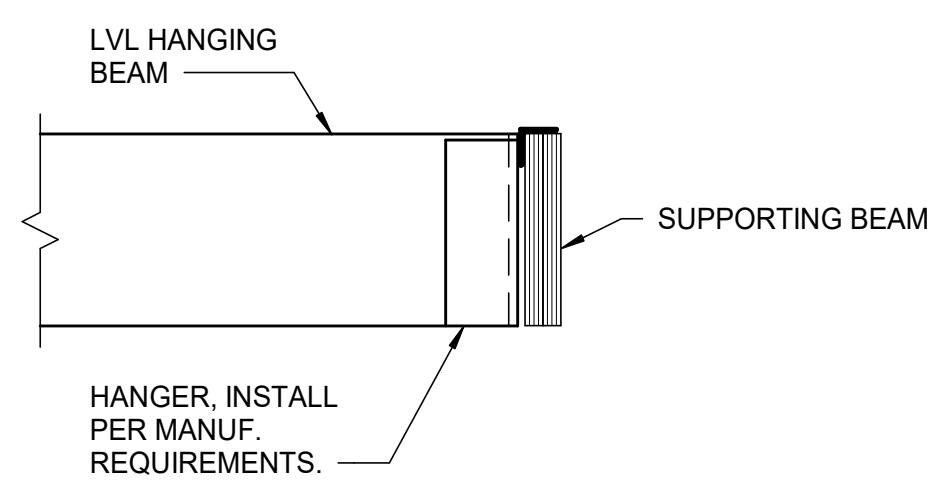


TYPICAL DROPPED HEADER AT OPENING

SECTION 6  
SCALE: 3/4" = 1'-0"

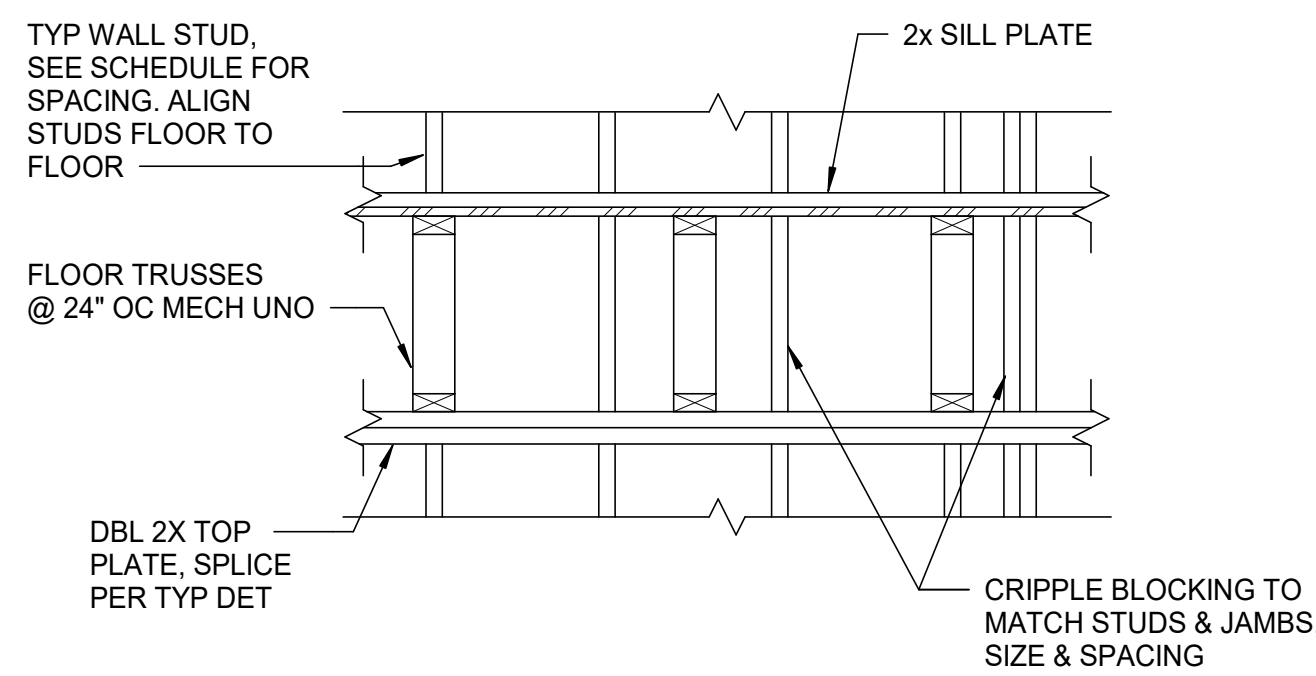
HANGING BEAM SIZE	MAX. LOAD (LB)	REQUIRED * HANGER
2-12"	7,900	SIMPSON HGLT 3.511
2-14"	9,310	SIMPSON HGLT 3.514
2-16"	10,600	SIMPSON HGLT 3.516
2-18"	10,950	SIMPSON HGLT 3.518

\* OR EQUAL



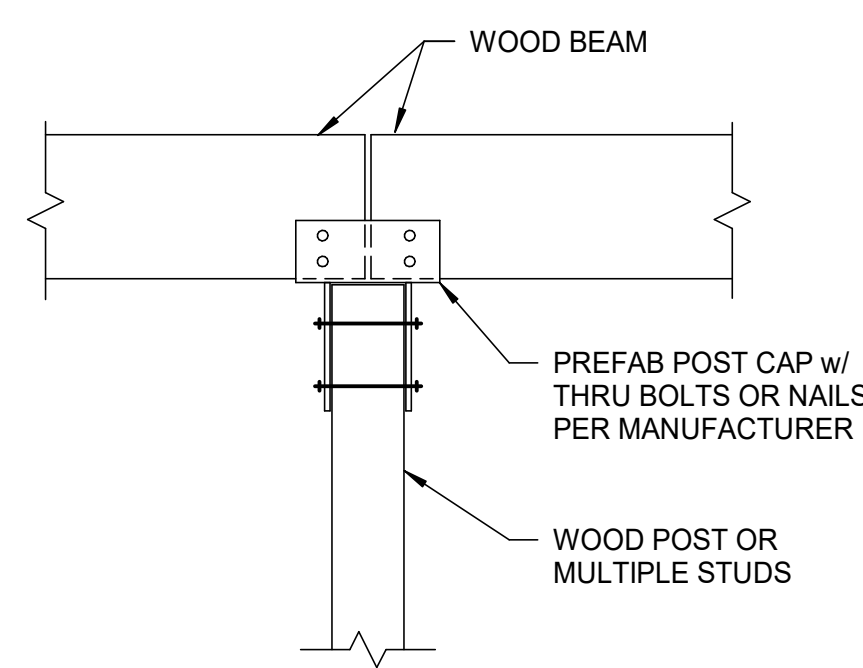
TYPICAL LVL BEAM TO BEAM CONNECTION

SECTION 15  
SCALE: 3/4" = 1'-0"



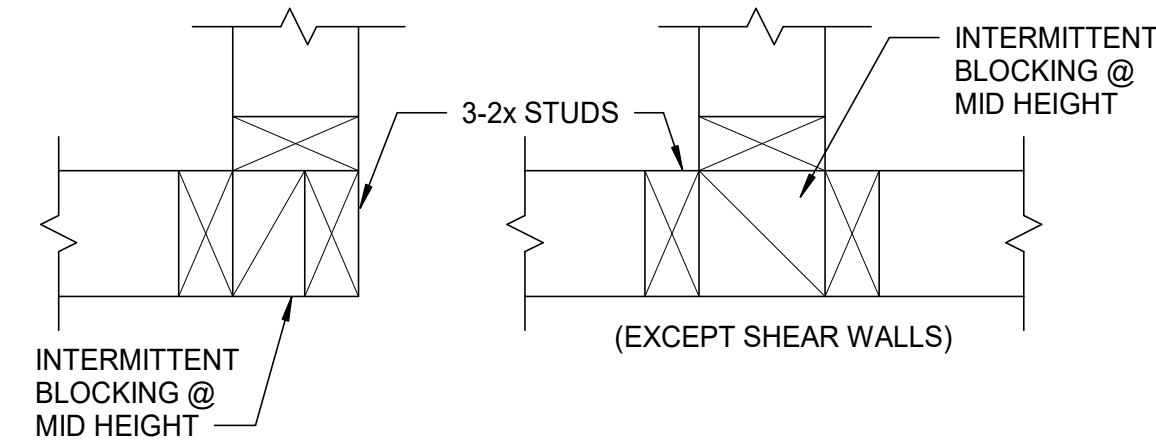
TYPICAL WALL CRIPPLE BLOCKING  
AT BEARING WALLS

SECTION 14  
SCALE: 3/4" = 1'-0"



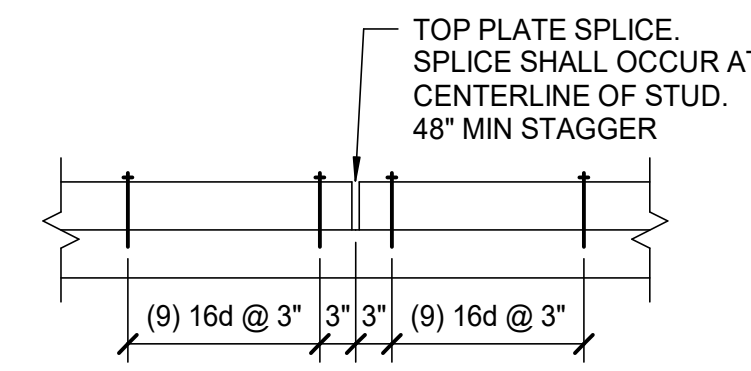
TYPICAL WOOD BEAM TO WOOD POST CONNECTION

SECTION 13  
SCALE: 3/4" = 1'-0"



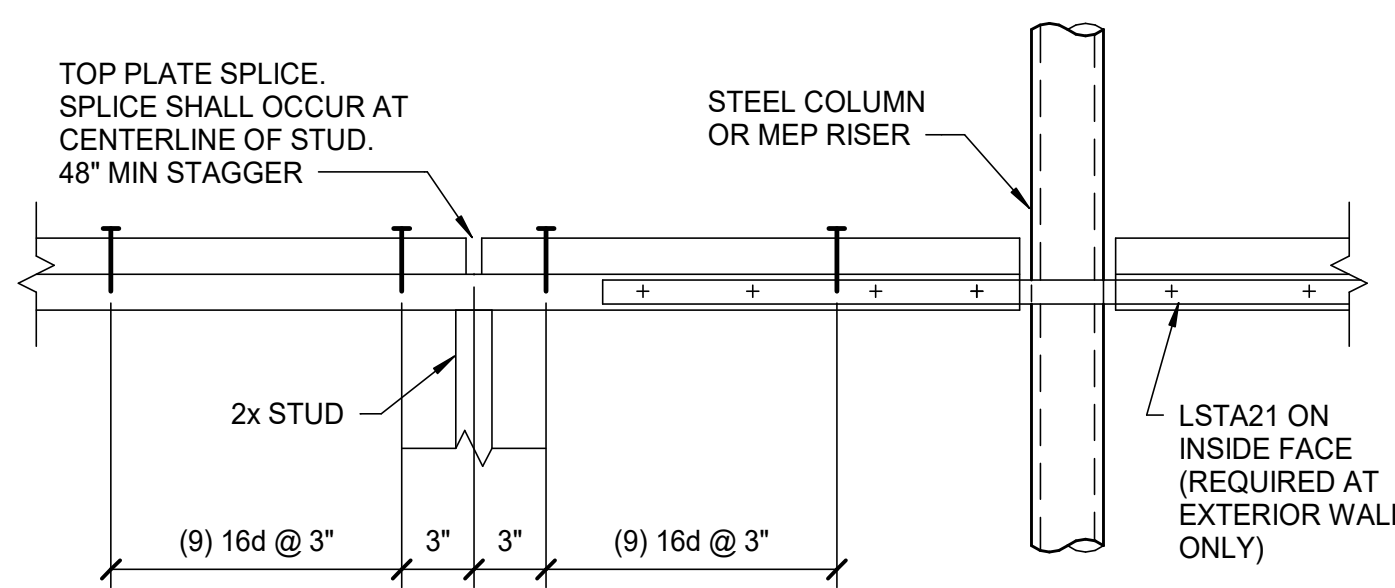
TYP CORNER AND INTERSECTION STUD WALL

SECTION 12  
SCALE: 3/4" = 1'-0"



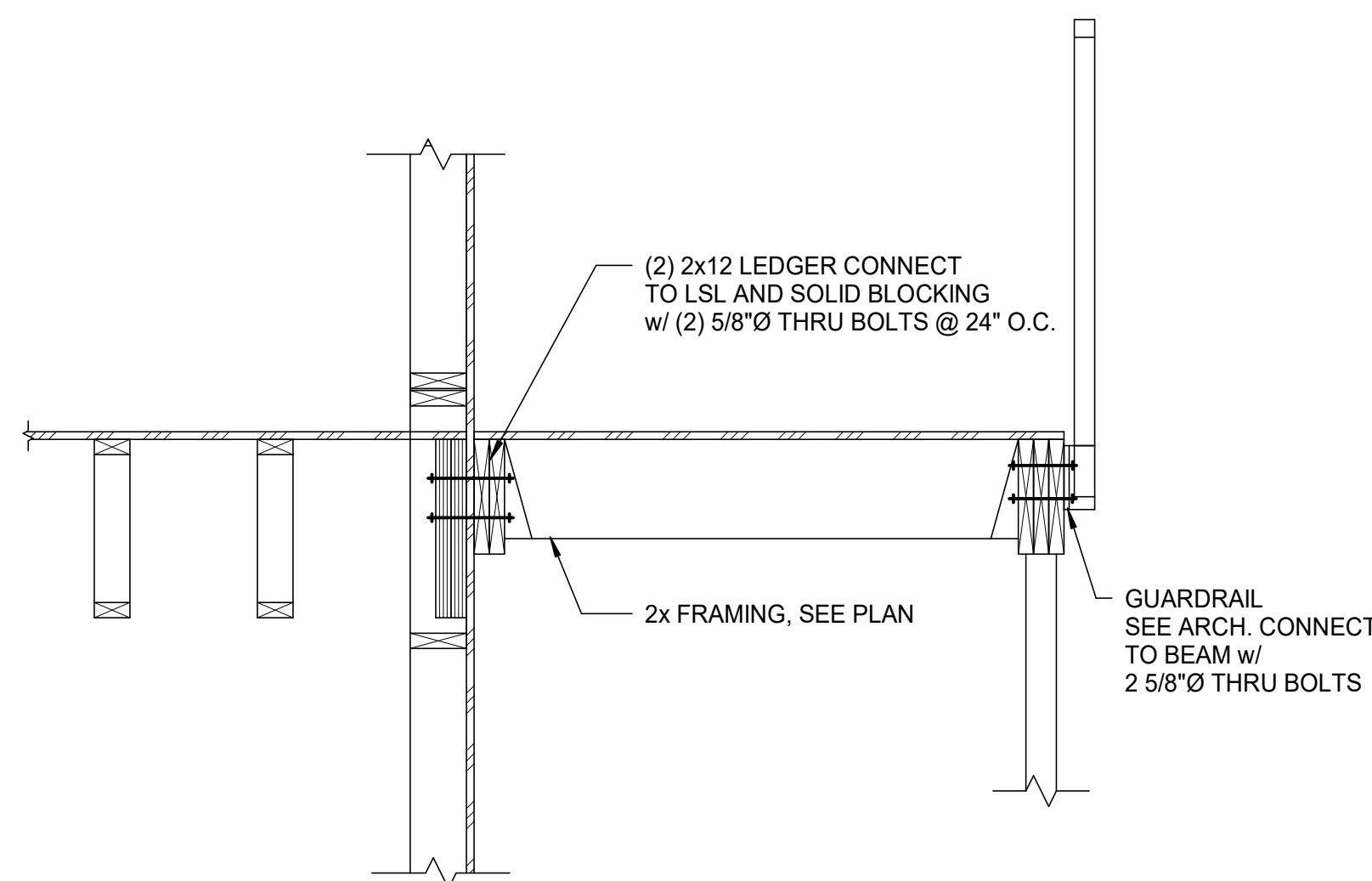
TYPICAL TOP PLATE SPLICE

SECTION 11  
SCALE: 3/4" = 1'-0"

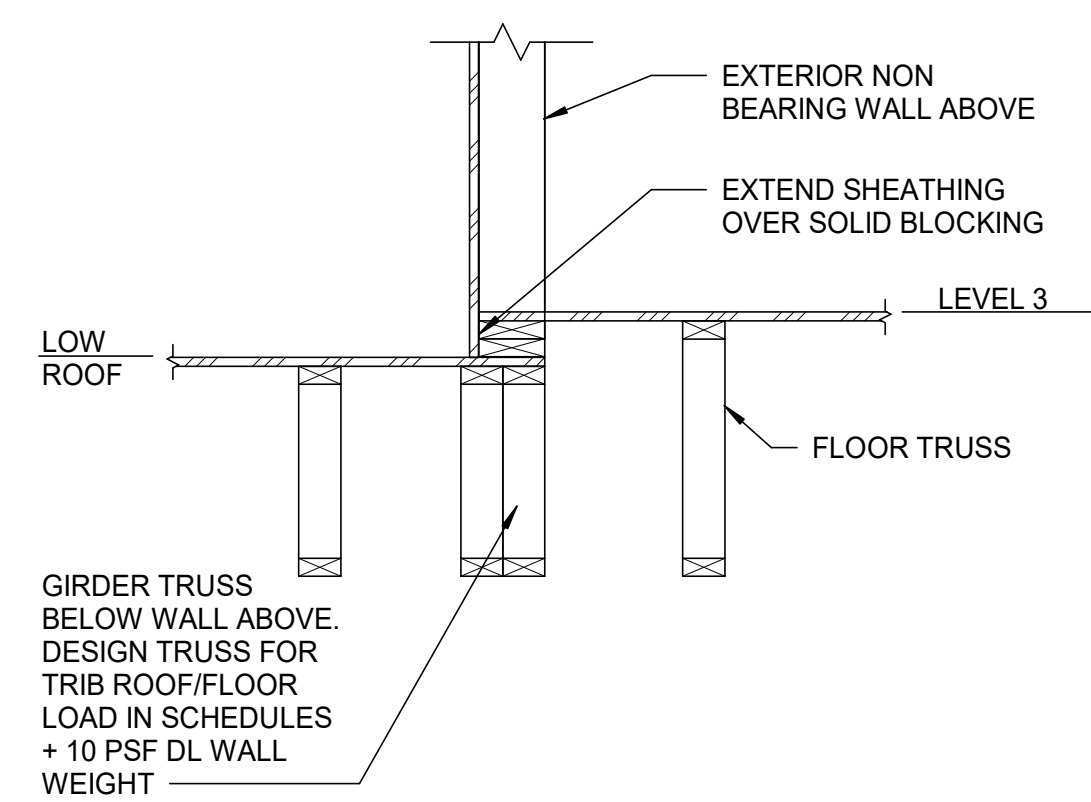


TYPICAL TOP PLATE SPLICE AT ALL WALLS AND  
PLATE INTERRUPTION STRAP AT EXTERIOR WALL

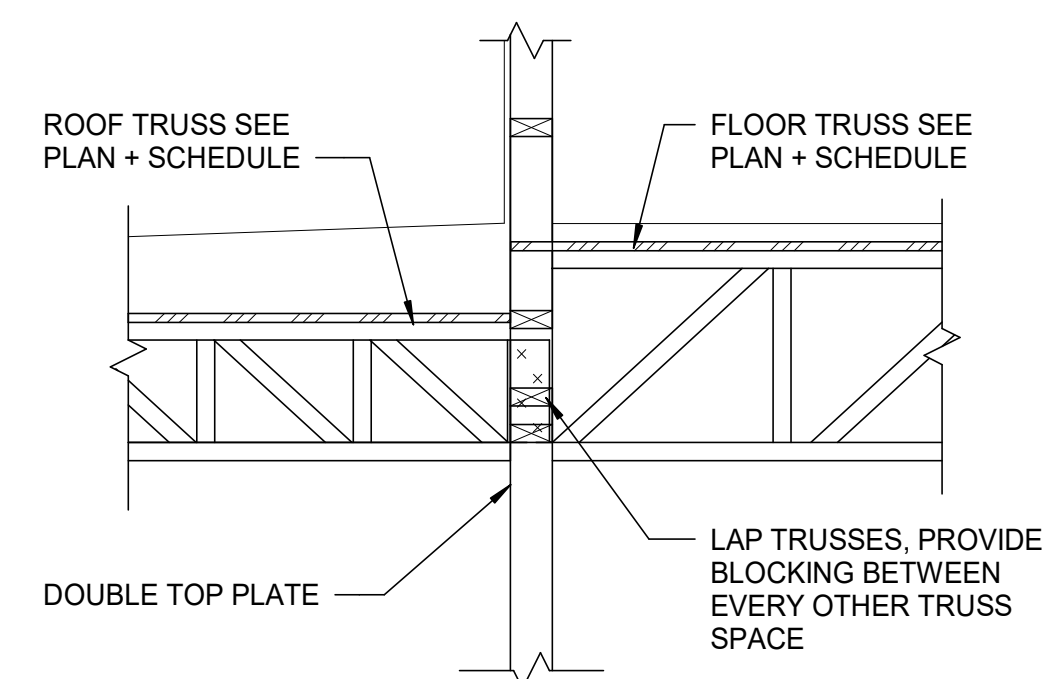
SECTION 19  
SCALE: 1 1/2" = 1'-0"



SECTION 18  
SCALE: 3/4" = 1'-0"



SECTION 17  
SCALE: 3/4" = 1'-0"



SECTION 16  
SCALE: 3/4" = 1'-0"



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S5.402  
WOOD FRAMING SECTIONS  
3 NORTH  
©2020

www.3north.com  
804 232 8900

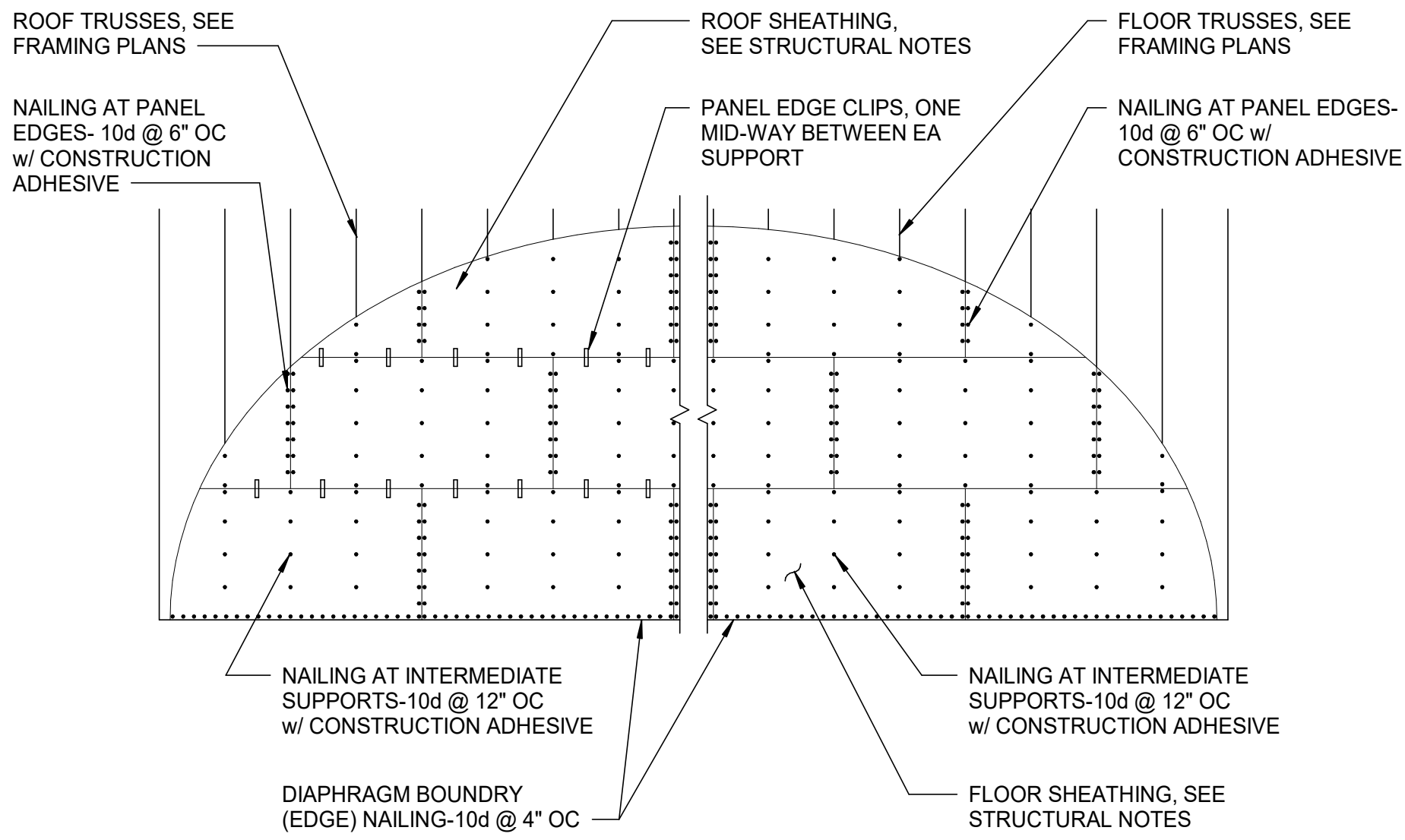
REVISIONS  
PERMIT  
06/11/2021

PERMIT SET

06/11/2021

12/15/20





ROOF DIAPHRAGM NAILING PATTERN

FLOOR DIAPHRAGM NAILING PATTERN (WALL NAILING PATTERN SIMILAR - SEE SHEAR WALL SCHEDULE)

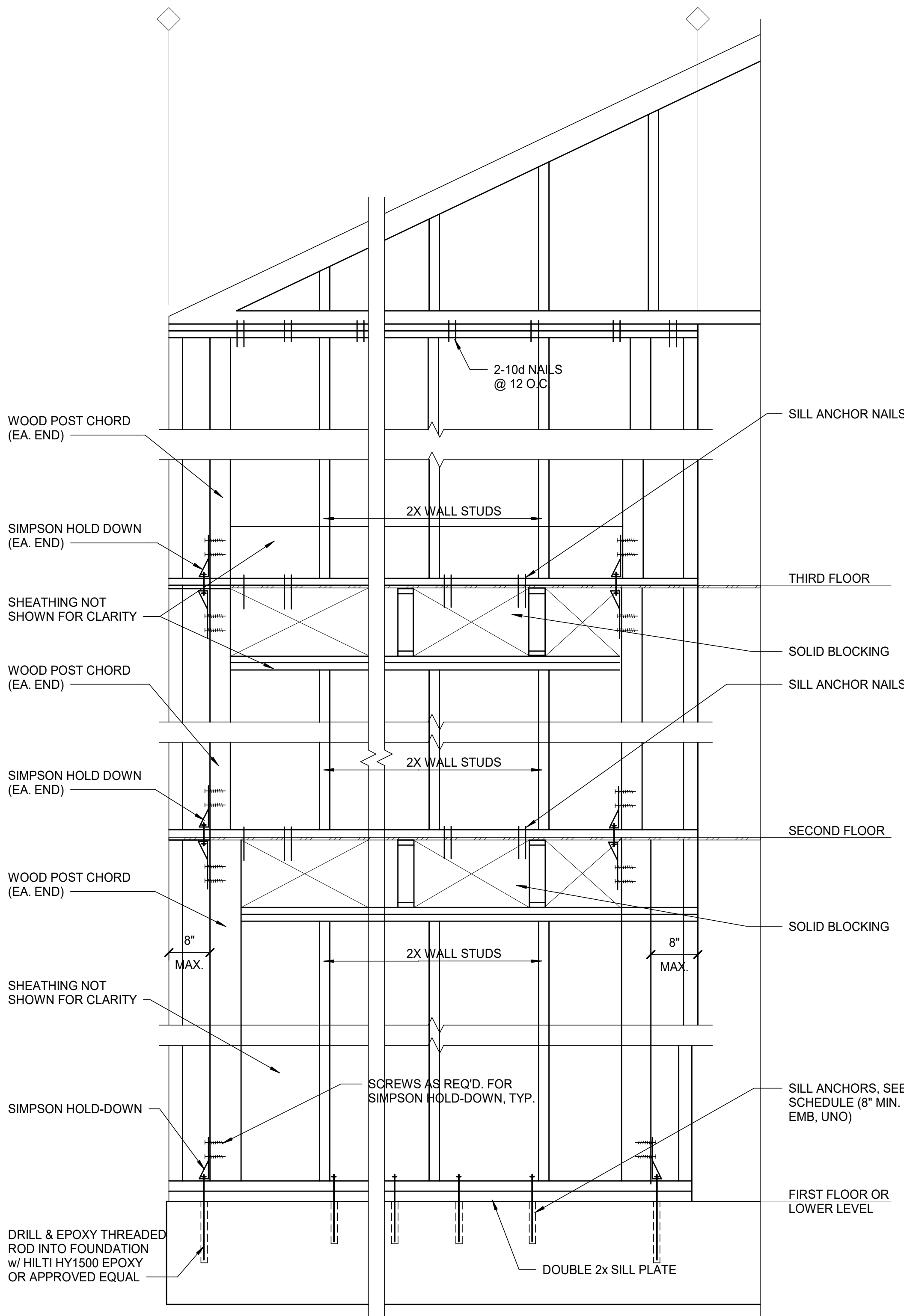
SECTION

SCALE: 3/4" = 1'-0"



SHEARWALL SCHEDULE									
MARK (WALL TYPE)	LEVEL	SHEATHING TYPE	NAIL SIZE PENETRATION	NAIL SPACING AT EDGES	BLOCKING	MIN END CHORD	SILL ANCHORS	CHORD ANCHORS	REMARKS
SW-1	3RD TO ROOF	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 6" O.C. (1) ROWS 10d NAILS @ 6" O.C.	HDU2-SDS2.5 w/5/8" ØANCHOR	
SW-1	2ND TO 3RD	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 6" O.C. (1) ROWS 10d NAILS @ 6" O.C.	NA	
SW-1	1ST TO 2ND	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	6"	BLOCKED	3-2X6	(1) ROWS 10d NAILS @ 4" O.C. (1) ROWS 10d NAILS @ 4" O.C.	NA	NOTE 1 & NOTE 3
SW-1	LOWER LEVEL	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	4"	BLOCKED	4-2X6	(1) ROWS 1/4" DIA WOOD SCREWS @ 4" O.C. 1/2" DIA. A.B. @ 24" O.C. THRU PT SILL	NA	
MARK (WALL TYPE)	LEVEL	SHEATHING TYPE	NAIL SIZE PENETRATION	NAIL SPACING AT EDGES	BLOCKING	END CHORD	SILL ANCHORS	CHORD ANCHORS	REMARKS
SW-2	3RD TO ROOF								
SW-2	2ND TO 3RD	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 6" O.C. (1) ROWS 10d NAILS @ 6" O.C.	HDU2-SDS2.5 w/5/8" ØANCHOR	
SW-2	1ST TO 2ND	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	6"	BLOCKED	3-2X6	(1) ROWS 10d NAILS @ 4" O.C. (1) ROWS 10d NAILS @ 4" O.C.	HDU2-SDS2.5 w/5/8" ØANCHOR	NOTE 1 & NOTE 3
SW-2	LOWER LEVEL	7/16" OSB (EXT. FACE)	8d COMMON 1 3/8"	4"	BLOCKED	4-2X6	(1) ROWS 1/4" DIA WOOD SCREWS @ 4" O.C. 1/2" DIA. A.B. @ 24" O.C. THRU PT SILL	HDU2-SDS2.5 w/5/8" Øx24	
MARK (WALL TYPE)	LEVEL	SHEATHING TYPE	NAIL SIZE PENETRATION	NAIL SPACING AT EDGES	BLOCKING	END CHORD	SILL ANCHORS	CHORD ANCHORS	REMARKS
SW-3	3RD TO ROOF								
SW-3	2ND TO 3RD	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 6" O.C. (1) ROWS 10d NAILS @ 6" O.C.	HDU2-SDS2.5 w/5/8" ØANCHOR	
SW-3	1ST TO 2ND	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 4" O.C. (1) ROWS 10d NAILS @ 4" O.C.	HDU5-SDS2.5 w/5/8" ØANCHOR	NOTE 1 & NOTE 3 - SB5/8x24 WHERE TERMINATES @ 1ST
SW-3	LOWER LEVEL	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	6"	BLOCKED	3-2X6	(1) ROWS 10d NAILS @ 4" O.C. 1/2" DIA. A.B. @ 32" O.C. THRU PT SILL	HDU8-SDS2.5 w/5/8" Øx24	
MARK (WALL TYPE)	LEVEL	SHEATHING TYPE	NAIL SIZE PENETRATION	NAIL SPACING AT EDGES	BLOCKING	END CHORD	SILL ANCHORS	CHORD ANCHORS	REMARKS
SW-4	3RD TO ROOF								
SW-4	2ND TO 3RD	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 6" O.C. (1) ROWS 10d NAILS @ 6" O.C.	HDU2-SDS2.5 w/5/8" ØANCHOR	
SW-4	1ST TO 2ND	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(1) ROWS 10d NAILS @ 4" O.C. 1/2" DIA. A.B. @ 32" O.C. THRU PT SILL	HDU2-SDS2.5 w/5/8" Øx24	
SW-4	LOWER LEVEL								
MARK (WALL TYPE)	LEVEL	SHEATHING TYPE	NAIL SIZE PENETRATION	NAIL SPACING AT EDGES	BLOCKING	END CHORD	SILL ANCHORS	CHORD ANCHORS	REMARKS
SW-5	3RD TO ROOF								
SW-5	2ND TO 3RD	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	6"	BLOCKED	2-2X6	(2) ROWS 16d NAILS @ 6" O.C. (2) ROWS 16d NAILS @ 6" O.C.	HDU4-SDS2.5 w/5/8" ØANCHOR	NOTE 4
SW-5	1ST TO 2ND	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	4"	BLOCKED	2-2X6	(2) ROWS 16d NAILS @ 6" O.C. (2) ROWS 16d NAILS @ 6" O.C.	HDU8-SDS2.5 w/7/8" ØANCHOR	NOTE 1, 3 AND 4 - SB7/8x24 WHERE TERMINATES @ 1ST
SW-5	LOWER LEVEL	7/16" OSB (1 FACE)	8d COMMON 1 3/8"	4"	BLOCKED	6X6 POST	(2) ROWS 16d NAILS @ 4" O.C. 1/2" DIA. A.B. w/ 4.5" SQ PL WASHERS @ 24" O.C. THRU PT SILL	HDU11-SDS2.5 w/5/8" Øx30	NOTE 4

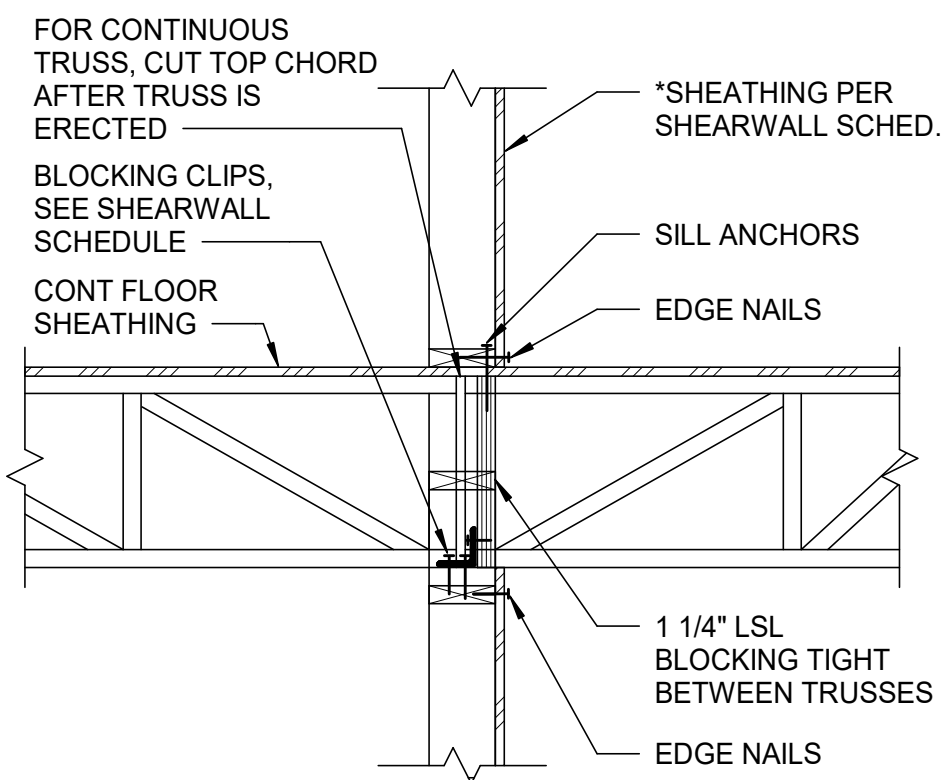
- NOTES:
- ALL SHEAR WALLS END WHERE SHOWN ON FRAMING PLANS. SEE S1.101-S1.104.
  - WHERE SHEAR WALLS TERMINATE ABOVE FOUNDATION, PROVIDE SILL NAILING PER SHEAR WALL SCHEDULE.
  - WHERE SHEAR WALLS TERMINATE AT FOUNDATIONS, PROVIDE ANCHOR BOLTS THRU PT SILL AS SCHEDULED ON LOWEST LEVEL.
  - SHEAR WALL END CHORDS AND HOLDDOWNS ONLY REQUIRED AT FAR SHEAR WALL ENDS.



TYPICAL SHEAR WALL DETAIL

TYPICAL SHEARWALL ELEVATION AND SCHEDULE

- NOTES:
- SHEARWALLS ARE INDICATED THUS ON PLAN: "SW-#".
  - IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE DIAGONAL BRACING TO ENSURE LATERAL STABILITY OF STUD WALLS, BY USE OF DIAGONAL METAL STRAPS OR OTHER MEANS, PRIOR TO INSTALLATION OF SHEAR WALL SHEATHING.
  - INTERIOR SHEAR WALL SHEATHING SHALL BE INSTALLED AND FASTENED AT SILL PLATE PRIOR TO PLACING OF GYPCRETE.
  - ALL SHEAR WALLS SHALL HAVE A MINIMUM OF TWO STUDS AT EACH END (CHORDS), UNO IN SCHED
  - SCHEDULED SHEARWALL SHEATHING SHALL BE FASTENED DIRECTLY IN CONTACT WITH THE WALL STUDS. IT SHALL NOT BE PERMITTED TO PLACE RESILIENT CHANNELS NOR ANY OTHER MATRIAL IN BETWEEN THE SCHEDULED SHEATHING AND THE STUDS.
  - APPLY PANELS WITH LONG DIMENSION ACROSS STUDS.



- NOTES:
- WHERE SHEATHING IS INDICATED ON 1 FACE IN SCHEDULE, PLACE ON SAME FACE AS LSL BLOCKING.

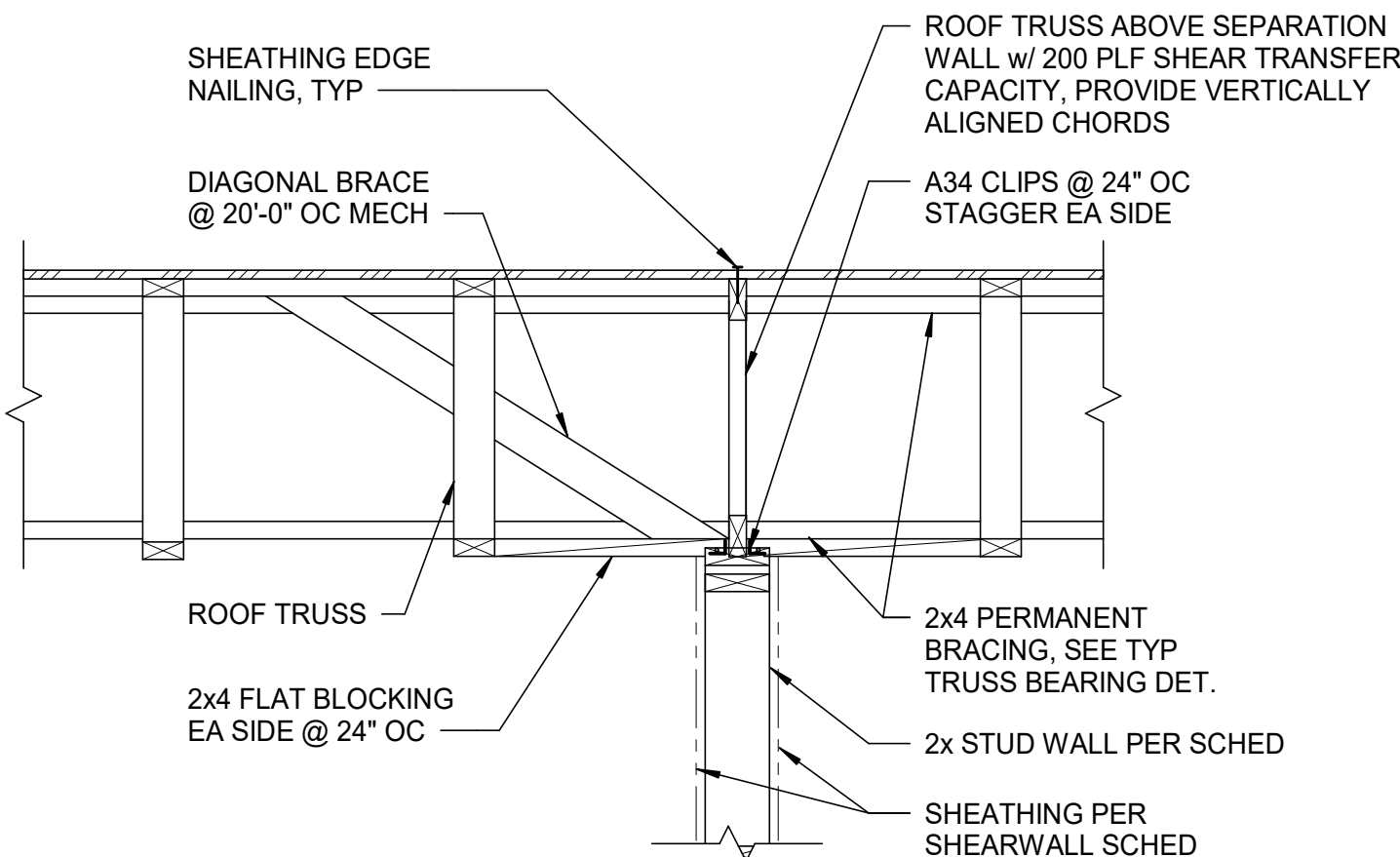
TYPICAL SHEARWALL AT UNIT SEPARATION PERPENDICULAR TO TRUSS

SECTION

SCALE: 3/4" = 1'-0"

5

S5.403



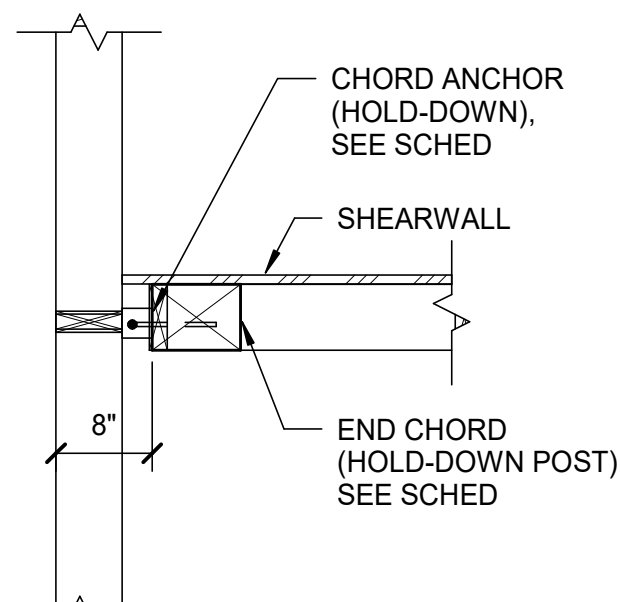
TYPICAL SHEAR WALL AT ROOF PARALLEL TRUSS

SECTION

SCALE: 3/4" = 1'-0"

4

S5.403



PLAN

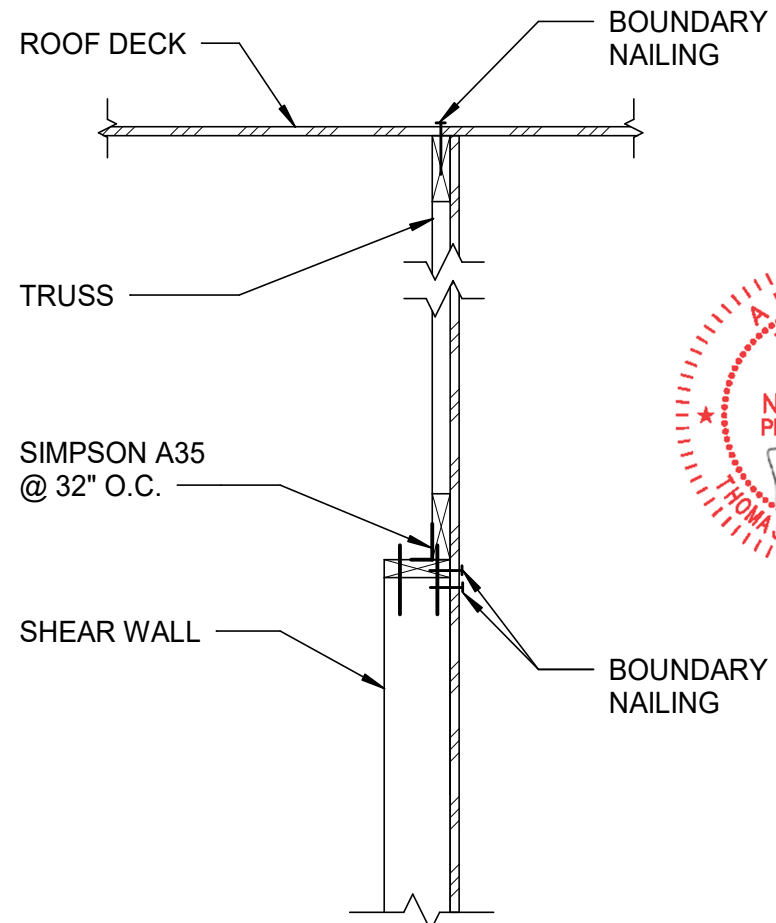
TYPICAL DETAIL AT SHEARWALL

SECTION

SCALE: 3/4" = 1'-0"

3

S5.403



TYPICAL SHEARWALL AT ROOF

SECTION

SCALE: 3/4" = 1'-0"

2

S5.403

TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S5.403

WOOD SHEARWALL  
SCHEDULE & DETAILS

12/15/20



©2020

www.3north.com  
804 232 8900

REVISIONS

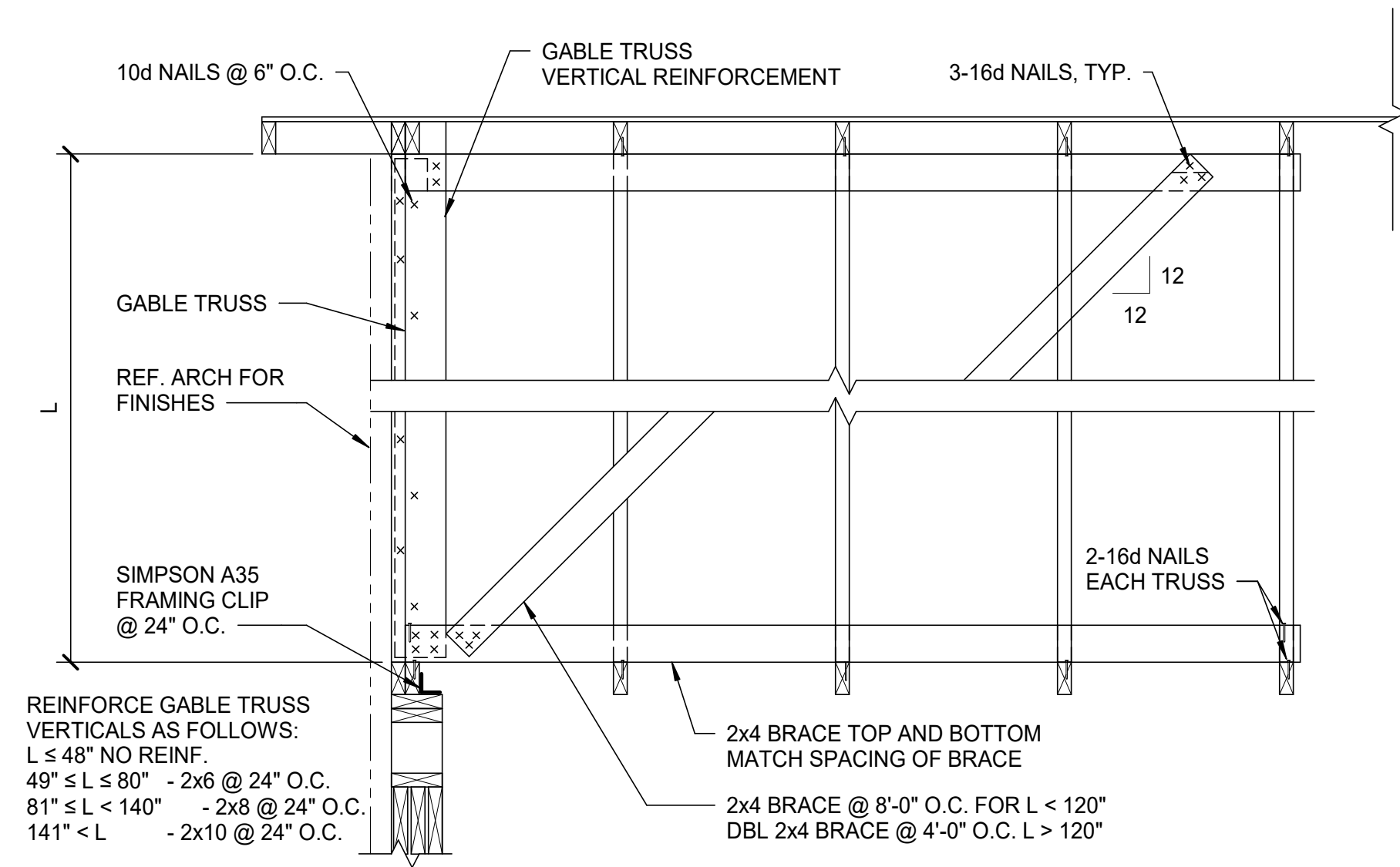
PERMIT

PERMIT SET

06/11/2021

06/11/2021





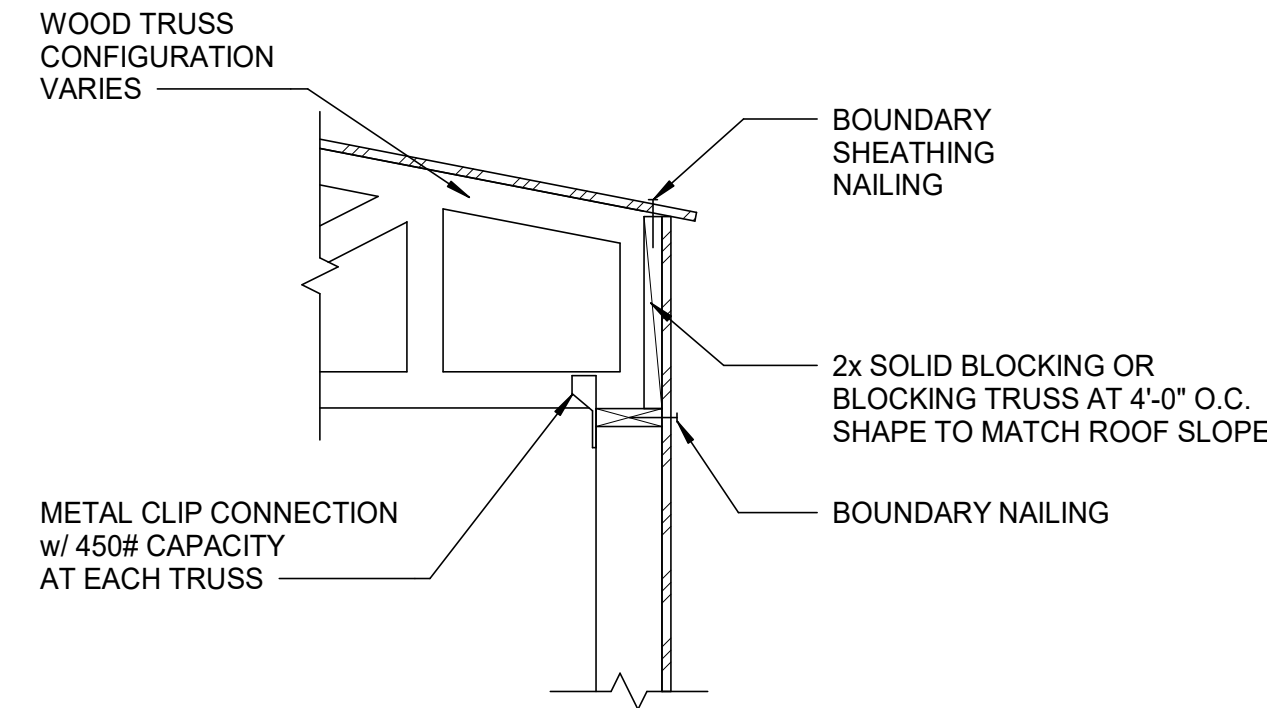
TYPICAL GABLE TRUSS REINFORCEMENT

SECTION

SCALE: 3/4" = 1'-0"

3

S\$5.501

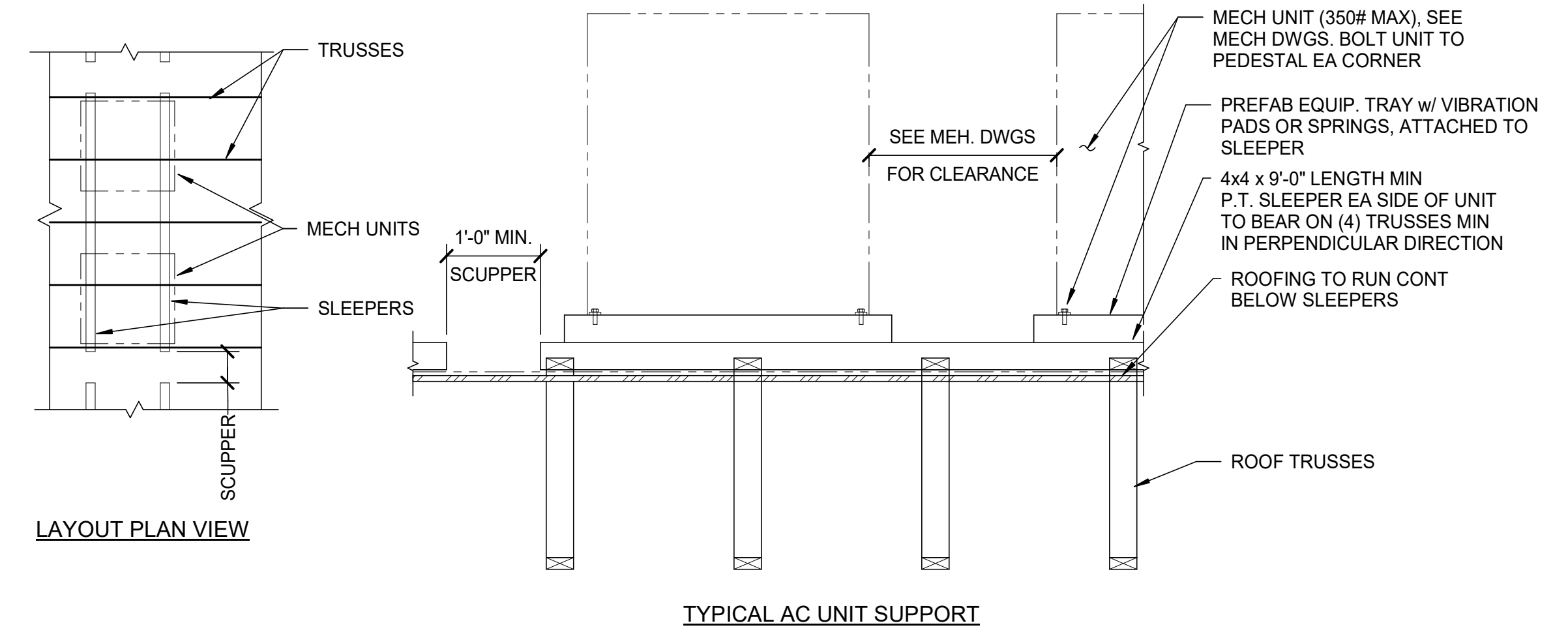


SECTION

SCALE: 3/4" = 1'-0"

2

S\$5.501



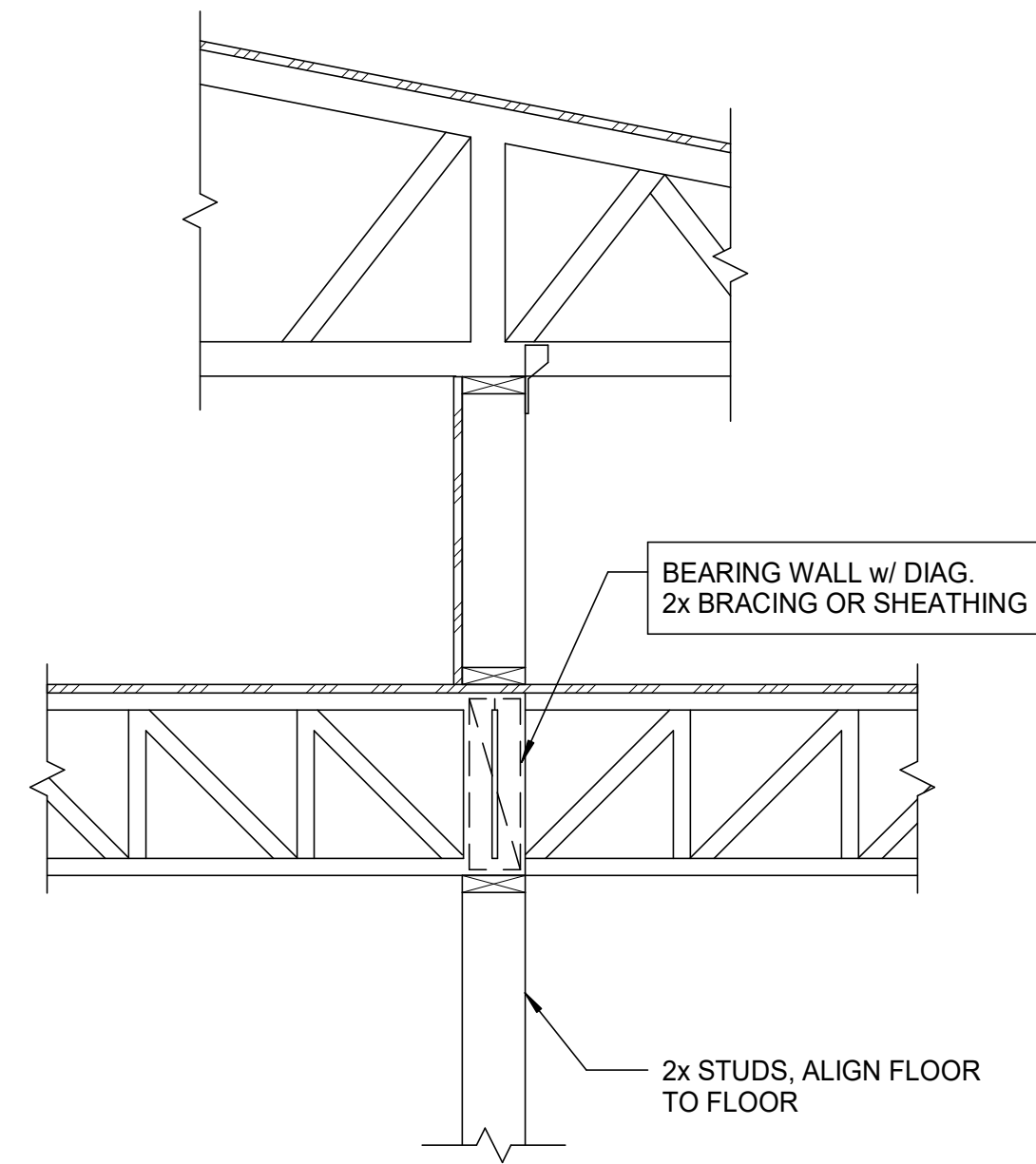
TYPICAL AC UNIT SUPPORT

SECTION

SCALE: 3/4" = 1'-0"

1

S\$5.501

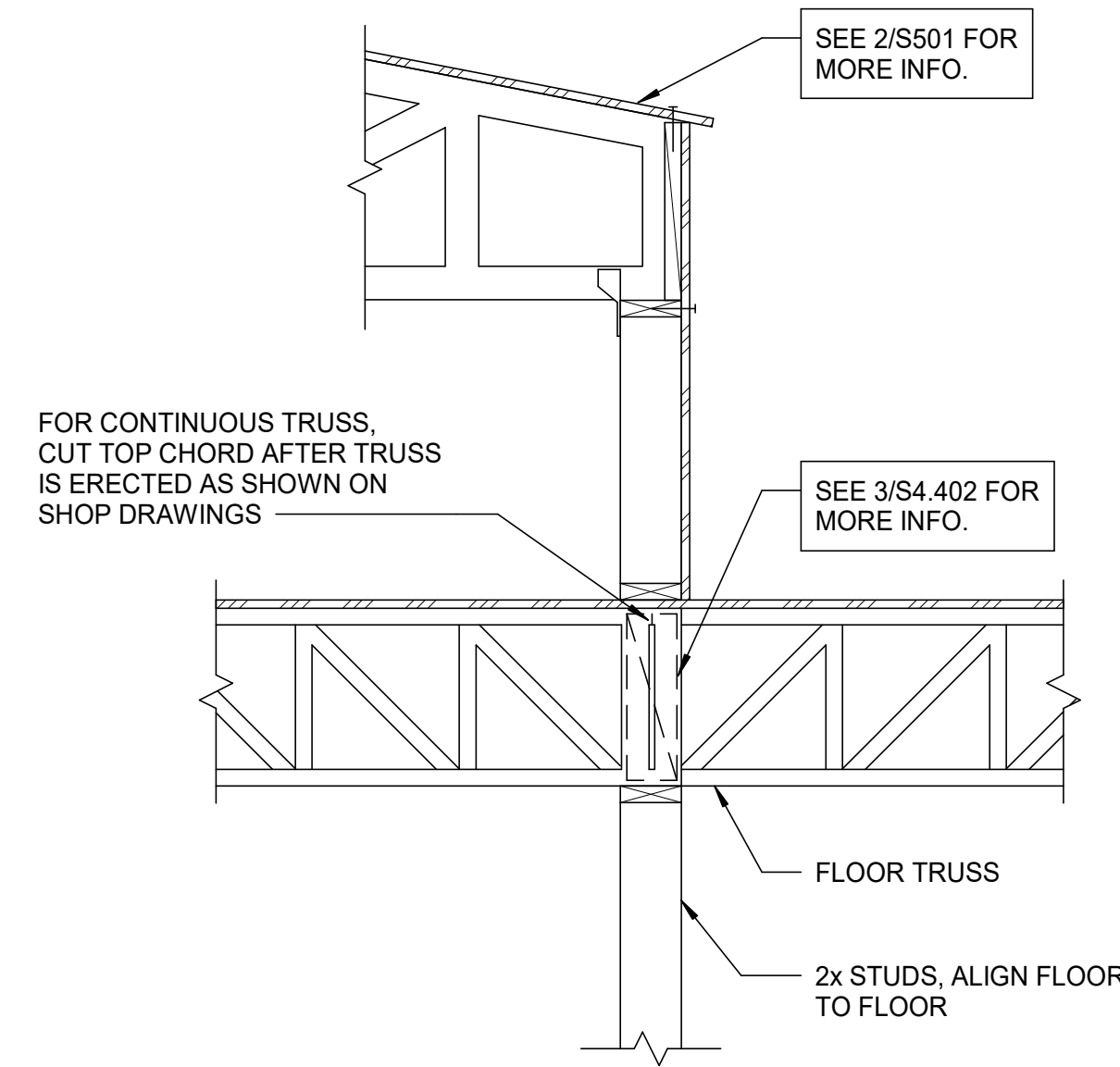


SECTION

SCALE: 3/4" = 1'-0"

7

S\$5.501

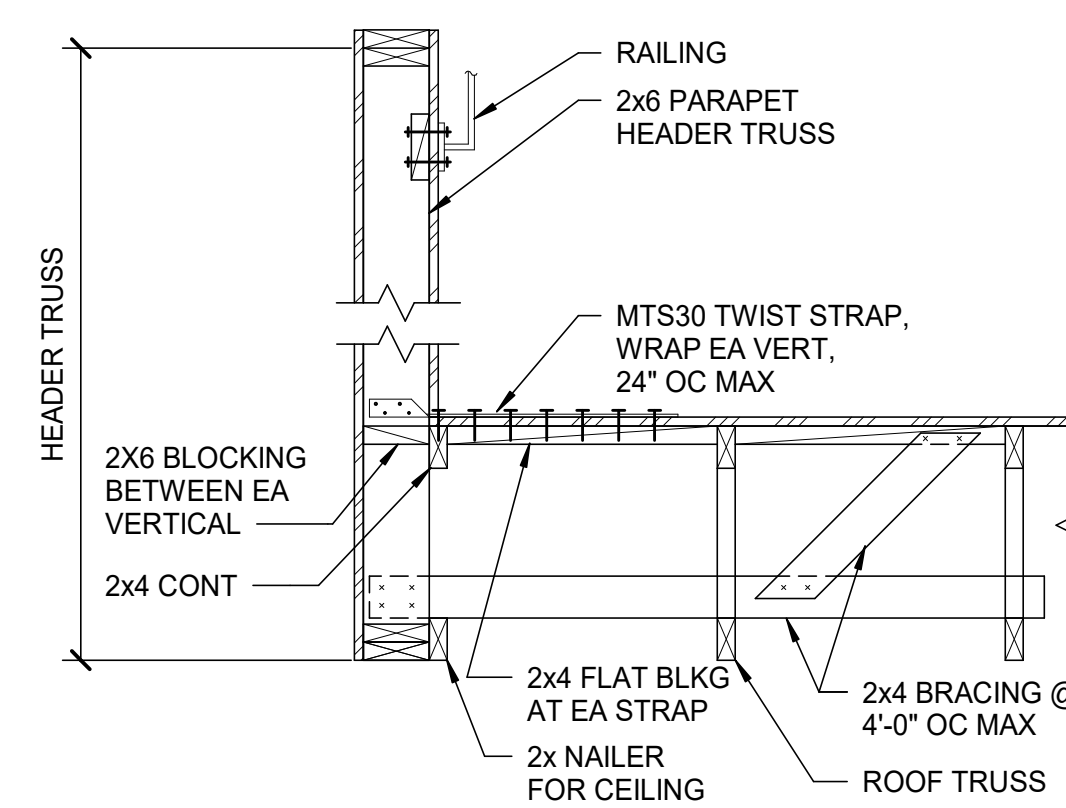


SECTION

SCALE: 3/4" = 1'-0"

6

S\$5.501



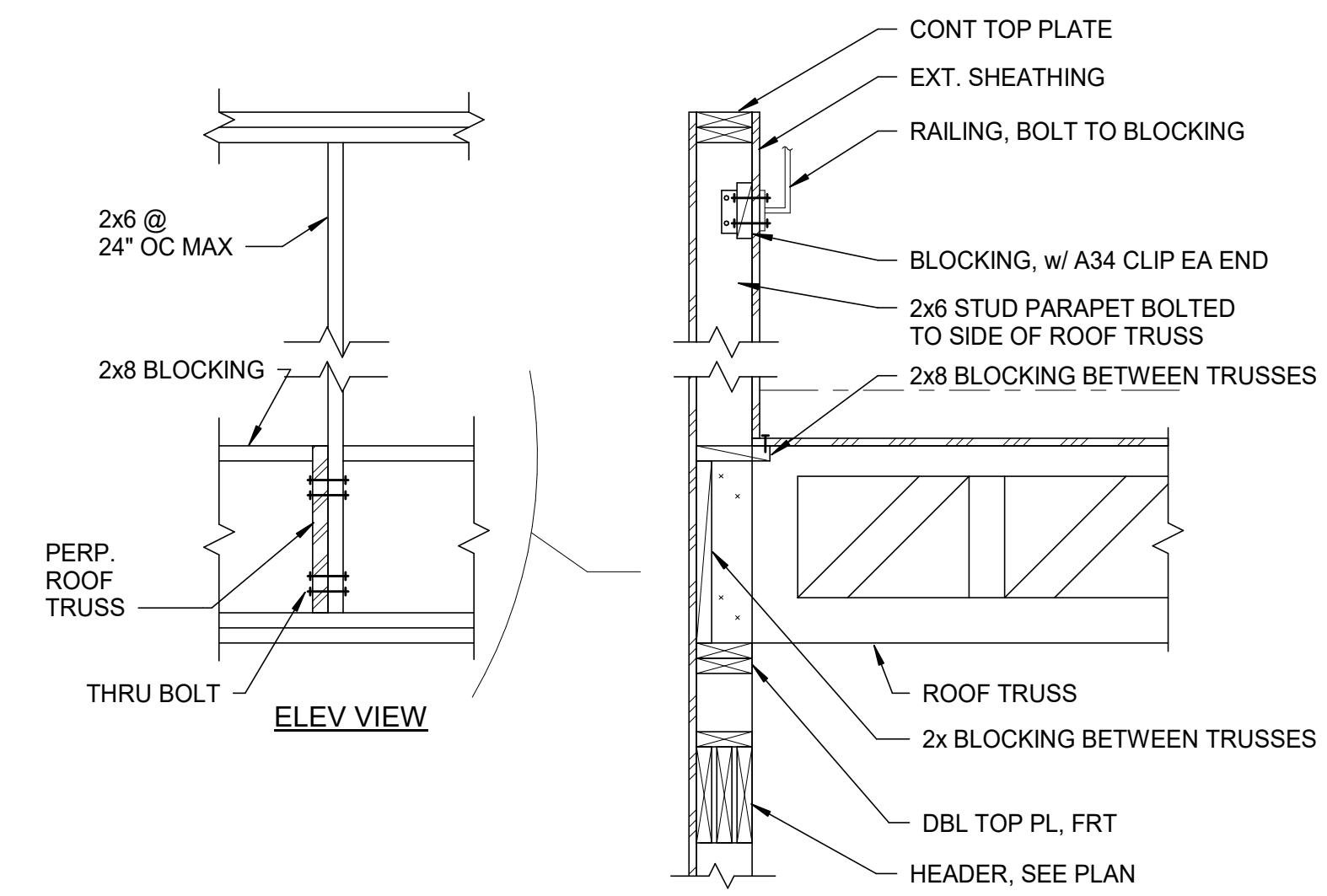
TYPICAL PARAPEET DETAIL AT WINDOW HEADER  
PARALLEL TRUSS

SECTION

SCALE: 3/4" = 1'-0"

5

S\$5.501



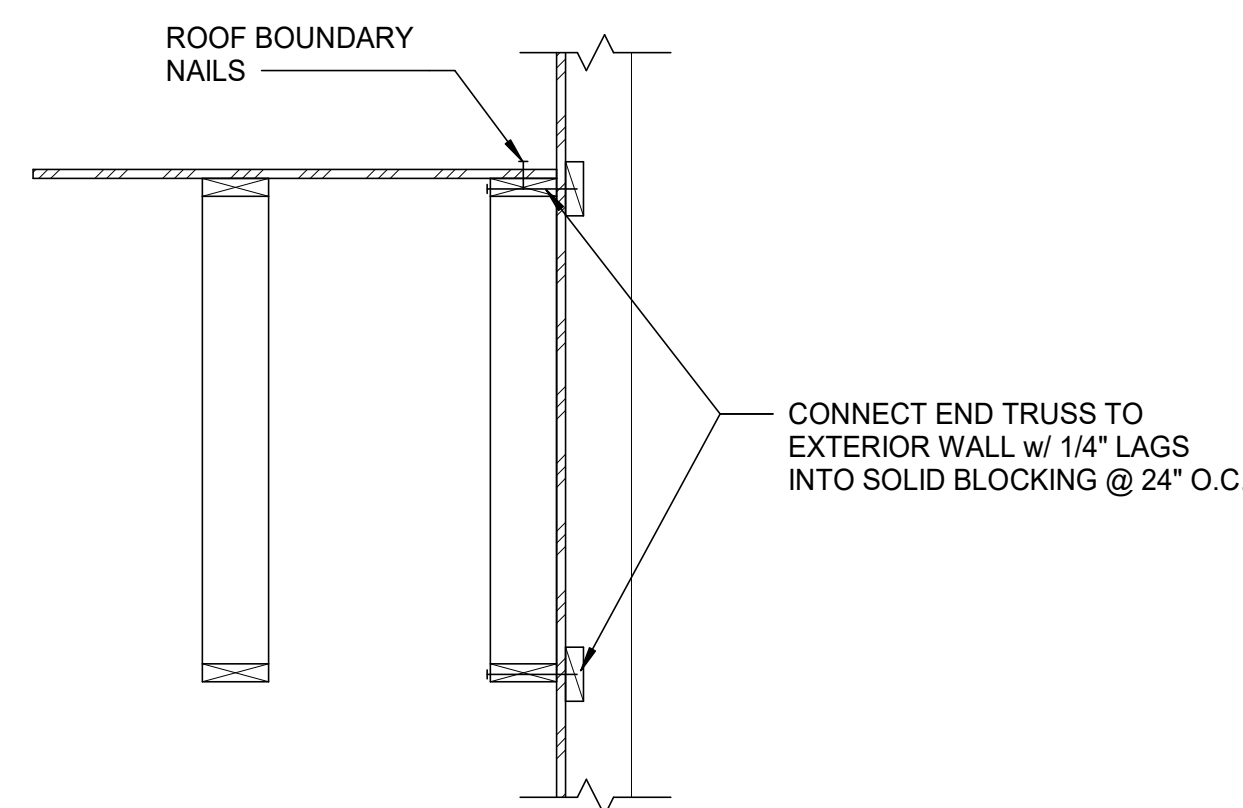
TYPICAL PARAPEET DETAIL  
PERPENDICULAR TRUSS

SECTION

SCALE: 3/4" = 1'-0"

4

S\$5.501

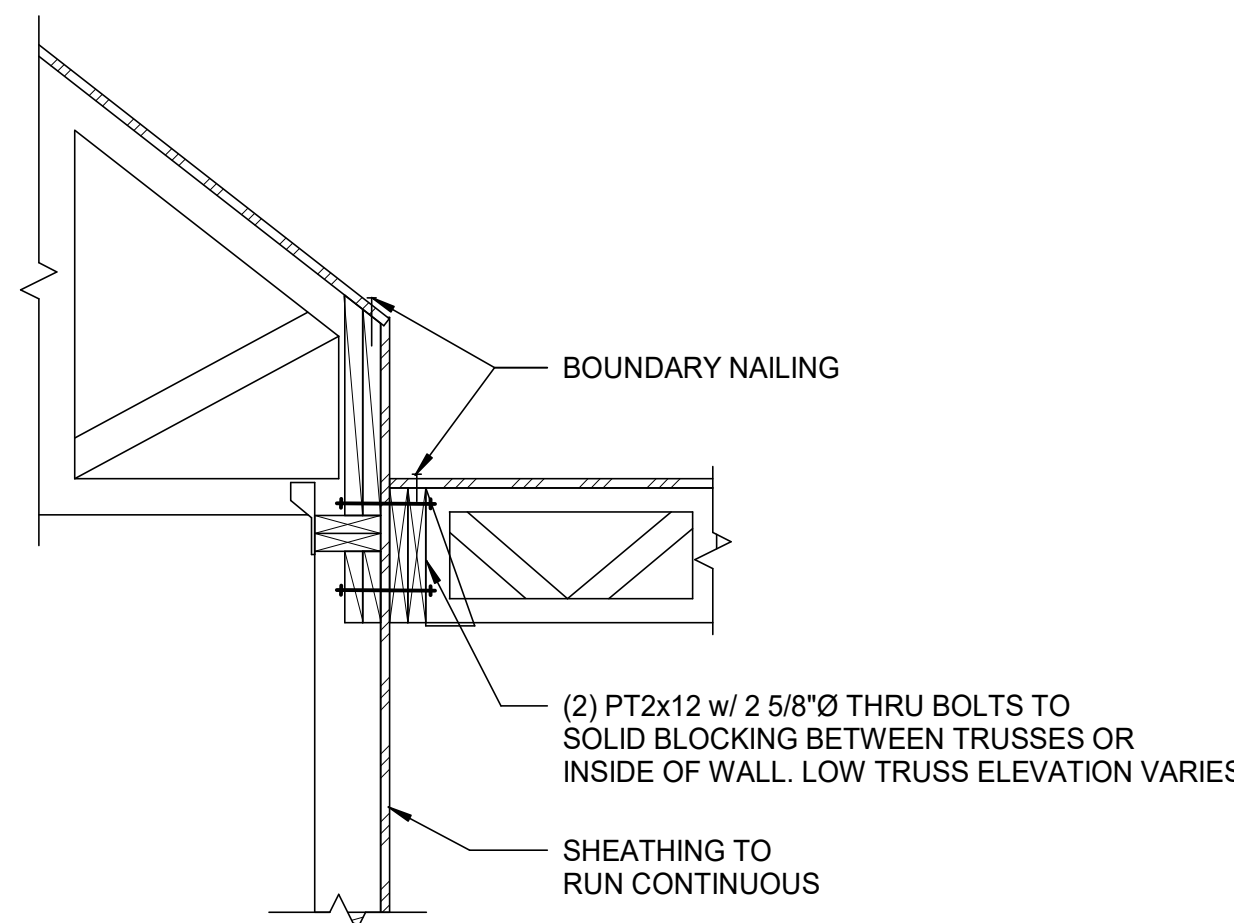


SECTION

SCALE: 3/4" = 1'-0"

10

S\$5.501

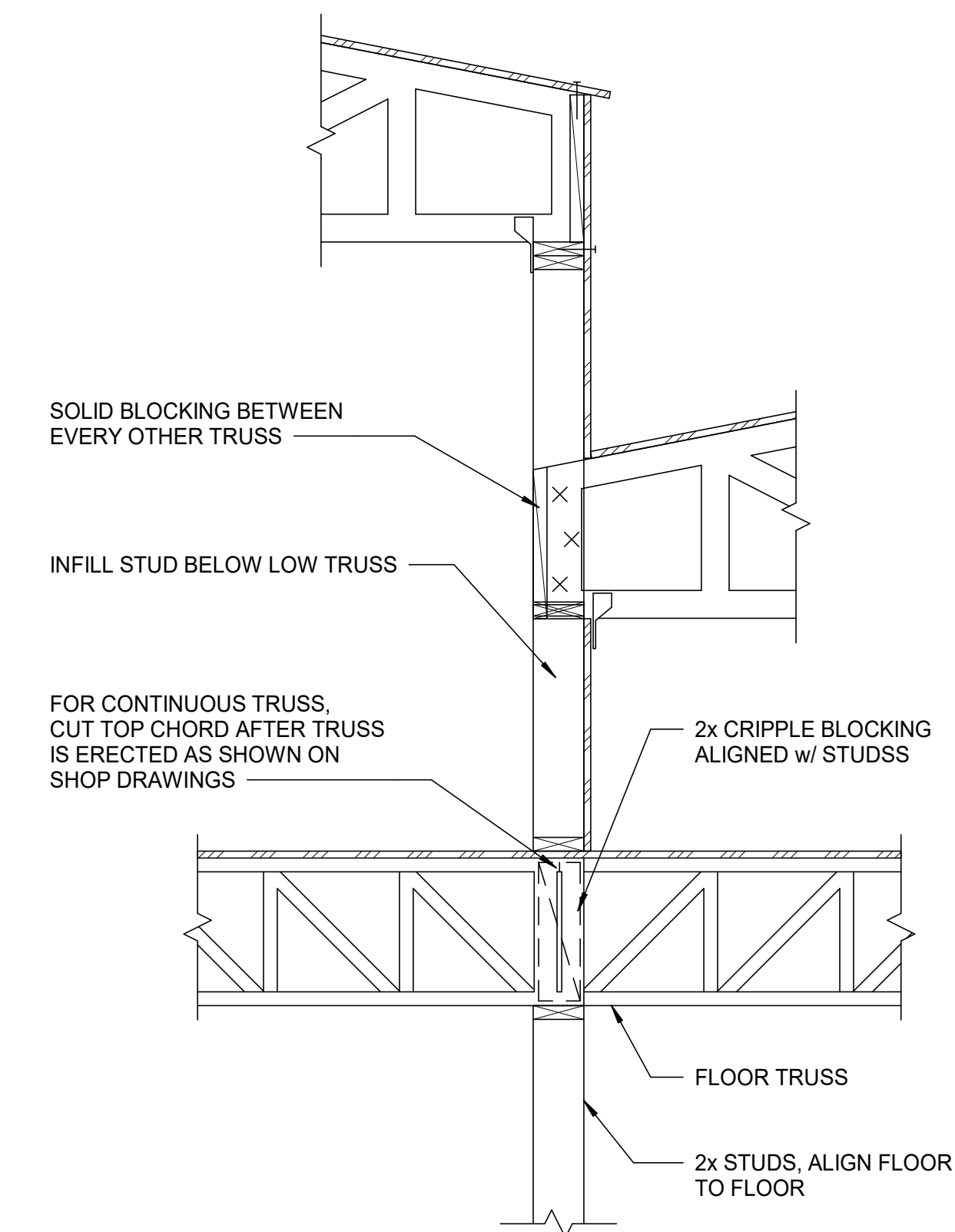


SECTION

SCALE: 3/4" = 1'-0"

9

S\$5.501



SECTION

SCALE: 3/4" = 1'-0"

8

S\$5.501



REVISIONS  
PERMIT  
06/11/2021

PERMIT SET

TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

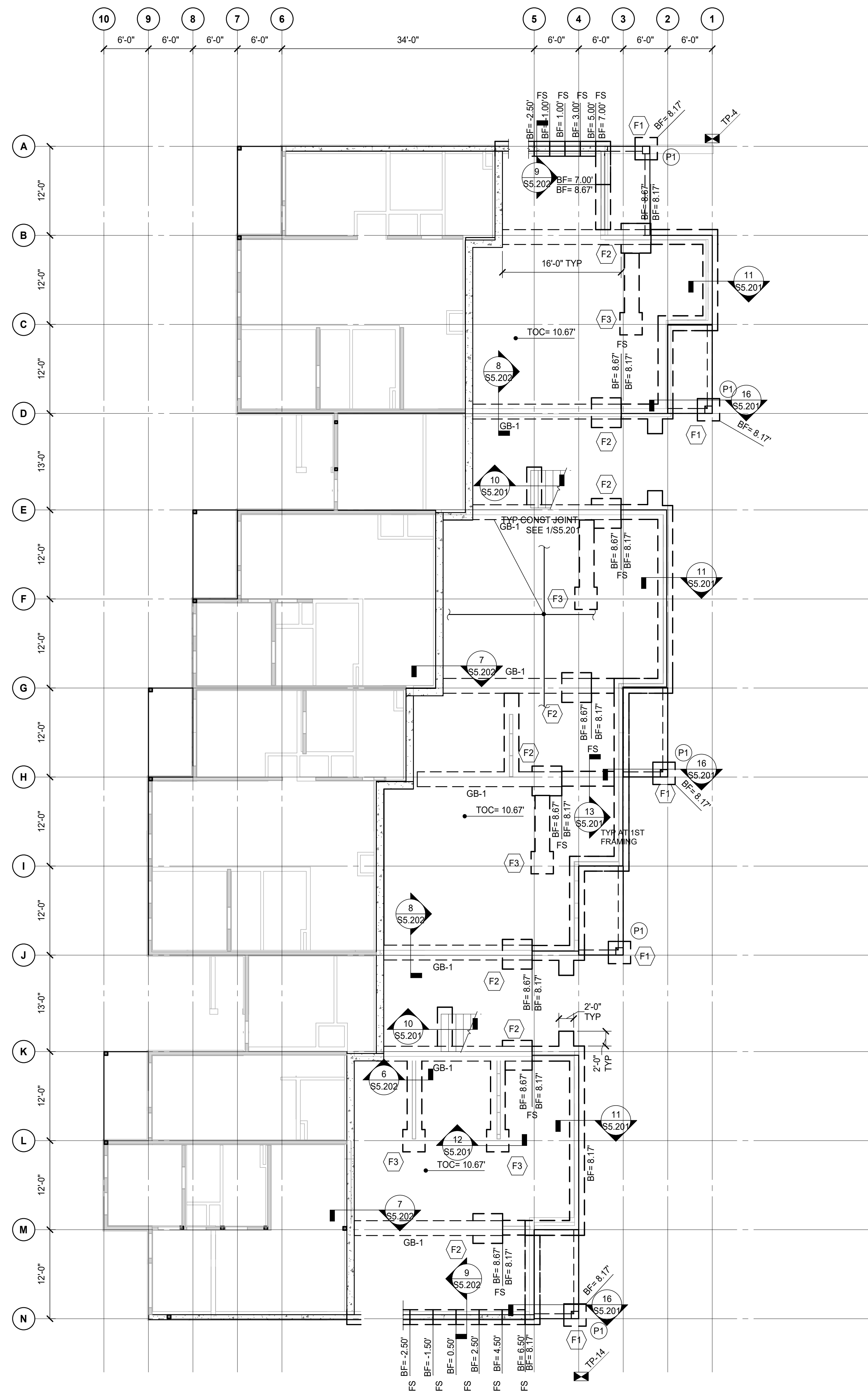
06/11/2021

S\$5.501  
WOOD ROOF FRAMING  
SECTIONS  
12/15/20

3  
NORTH  
©2020

www.3north.com  
804 232 8900



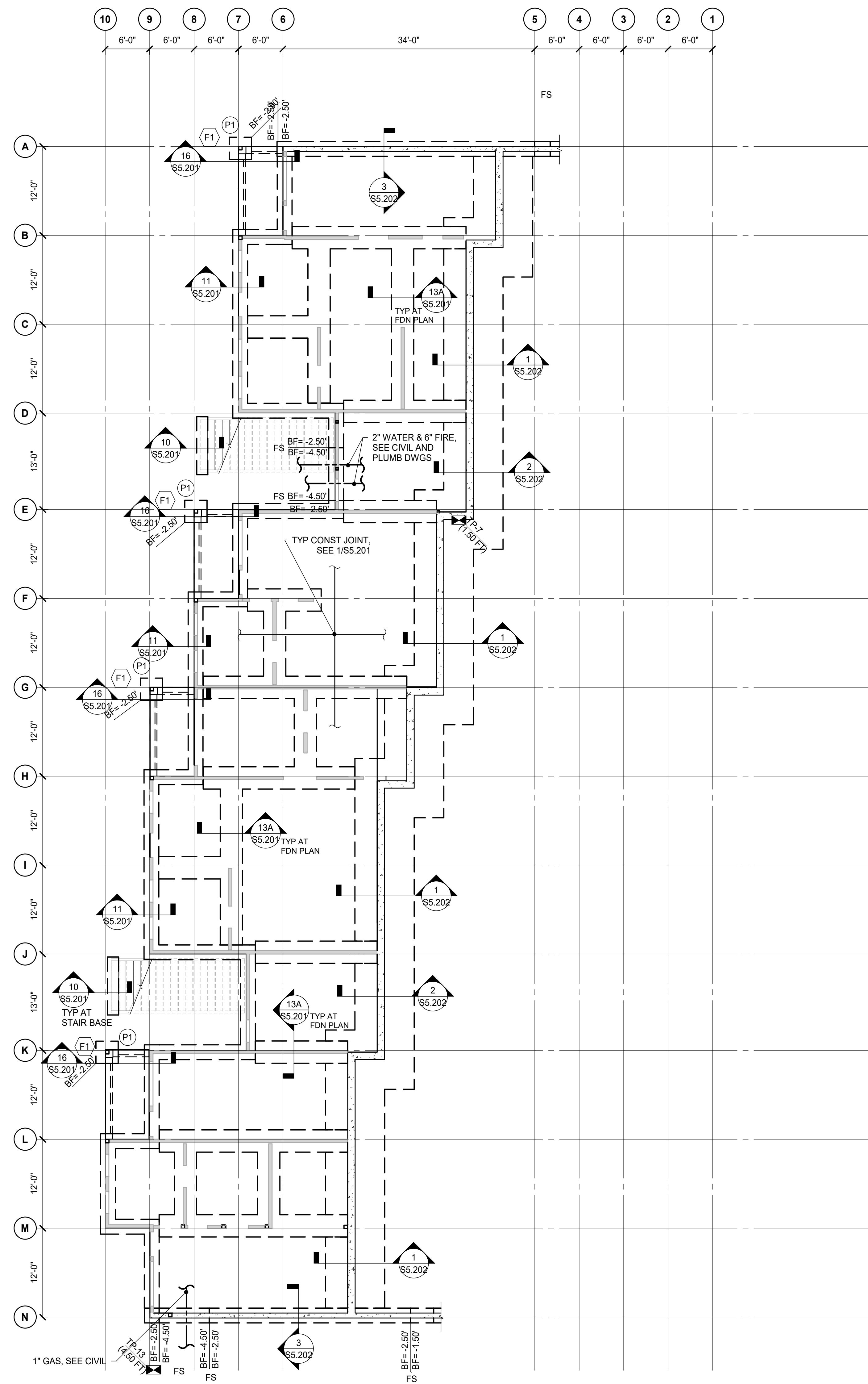


LEVEL 1 FRAMING PLAN

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

NOTES:

- SEE S5.100 FOR TYPICAL FOUNDATION NOTES.
- TOP OF CONCRETE ELEVATION = 10.67' (ACTUAL EL = 1067.52')



FOUNDATION PLAN

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

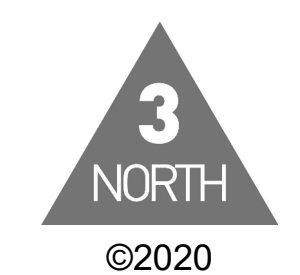
NOTES:

- REFERENCE BUILDING A5 DRAWINGS FOR BUILDING STRUCTURAL NOTES, SPECIAL INSPECTIONS, TYPICAL CONSTRUCTION, SECTIONS AND SCHEDULES.
- TOP OF CONCRETE ELEVATION = 0.00' REFERENCE (ACTUAL ELEVATION= 1056.85')
- REFER TO S5.100 ON BUILDING A5 FOR BALANCE OF PLAN NOTES NOT SHOWN.



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S6.100  
FOUNDATION PLAN AND  
LEVEL 1 FRAMING PLANS



www.3north.com  
804 232 8900

REVISIONS

PERMIT

PERMIT SET

06/11/2021

06/11/2021



## STRUCTURAL NOTES

## 1. GENERAL

A. THE BUILDING IS DESIGNED UNDER THE PROVISIONS OF THE 2015 INTERNATIONAL BUILDING CODE AND ASCE 7-10.

B. THE FOLLOWING LOADS WERE USED IN THE DESIGN:

BUILDING RISK CATEGORY	II
FLOOR LIVE LOAD	100 PSF
PUBLIC AREAS	100 PSF / 300 LB PT LOAD
STAIRS/EXITS	
ROOF LIVE LOAD	
MINIMUM UNIFORM ROOF LIVE LOAD	20 PSF / 300 PT LOAD
ROOF SNOW LOAD	
GROUND SNOW LOAD (Pg)	10 PSF
FLAT-ROOF SNOW LOAD (Pf)	7 PSF
RAIN-ON-SNOW SURCHARGE	5 PSF
SNOW EXPOSURE FACTOR (Ce)	1.0
SNOW LOAD IMPORTANCE FACTOR (Is)	1.0
THERMAL FACTOR (Ci)	1.0
WIND LOAD	
WIND SPEED (3-SECOND GUST)	
Vult	115 MPH
Vasdt (0.77*VULT)	90 MPH
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	+0.18, -0.18
COMPONENTS AND CLADDING WIND LOAD	
EFFECTIVE WIND AREA	ZONE PRESSURE
10 FT *2	4
10 FT *2	4
10 FT *2	5
10 FT *2	5
EARTHQUAKE DESIGN	
SEISMIC IMPORTANCE FACTOR (Ie)	1.00
SEISMIC DESIGN CATEGORY	C
SITE CLASSIFICATION	C
SEISMIC RESPONSE COEFFICIENTS	
Ss	0.258
S1	0.120
Sds	0.274
Sd1	0.186
DESIGN BASE SHEAR	18 KIPS
SEISMIC-FORCE RESISTING SYSTEM PER ASCE 7-10 TABLE 12.2-1	
R	TYPE A8
Cd	3.5
Cs	2.25
TL	0.078
ANALYSIS METHOD	12
HANDRAIL AND GUARD LOADS	
HANDRAIL AND GUARD	50 PLF / 200 LB PT LOAD
INTERMEDIATE RAIL	50 LB PT LOAD

C. SEE ARCHITECTURAL DRAWINGS FOR ANGLES, CLIPS, PLATES, ETC., AND OTHER MISCELLANEOUS ITEMS. VERIFY AND COORDINATE ALL FRAMES, OPENINGS, ETC. WITH THE MECHANICAL AND ELECTRICAL CONTRACTORS.

D. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING ITEMS. SUBMITTALS INCLUDE BUT MAY NOT BE LIMITED TO:

--CONCRETE MIX DESIGN  
--REINFORCING STEEL  
--STRUCTURAL STEEL  
--PRE-ENGINEERED BUILDING COMPONENTS  
--WOOD TRUSSES

DO NOT USE CONTRACT DRAWINGS AS A BASE FOR SHOPS. REVIEW IS LIMITED TO DESIGN CONFORMANCE. CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS.

E. CONTRACTOR SHALL COORDINATE WITH THE QUALIFIED AGENCY RETAINED BY THE OWNER TO PERFORM INSPECTION AND TESTING. INSPECTIONS REQUIRED INCLUDE, BUT MAY NOT BE LIMITED TO:

--SOILS AND FOUNDATIONS  
--CONCRETE  
--STRUCTURAL STEEL  
--MASONRY

## 2. EARTHWORK

A. FOUNDATIONS ARE DESIGNED TO BEAR ON ENGINEERED FILL OR NATURAL SOIL WITH A CAPACITY OF 2,000 PSF BASED ON RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY OMI, INC. DATED 12/31/2020. THIS VALUE IS TO BE VERIFIED IN THE FIELD BY THE BUILDING INSPECTOR OR A QUALIFIED TESTING AGENCY.

B. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2 FOOT-0 INCH BELOW FINISHED EXTERIOR GRADE. WHERE REQUIRED, STEP FOOTINGS IN RATIO OF 2 HORIZONTAL TO 1 VERTICAL.

C. COMPACTED BACKFILL BELOW BUILDING SLABS AND FOOTINGS: ALL SOIL FILL MATERIAL MUST BE APPROVED BY SOILS ENGINEER PRIOR TO COMPRESSIVE PROOFROLL. SUBGRADE REMOVING AND REPLACING SOFT OR COMPRESSIVE MATERIALS. FILL MATERIAL SHALL BE PLACED IN LAYERS NOT TO EXCEED 8 INCHES AND COMPACTED TO MIN. 95 PERCENT OF THE DRY MAXIMUM DENSITY AS DETERMINED BY ASTM D698.

D. AT ROCKY AREAS AROUND AND BELOW EL. 1055 FT MSL. ROCK LEDGES, PINNACLES OR BouldERS, IF ENCOUNTERED AND CONFLICTING WITH THE PROPOSED FOUNDATION SYSTEM, SHALL BE REMOVED BY BLASTING, RIPPING OR HOE RAMMING PER THE GEOTECHNICAL REPORT. ONCE THE AREA HAS BEEN EXCAVATED, A MINIMUM 1 FOOT LAYER OF #2 STONE SHALL BE PLACED ACROSS THE AREA. THE #2 STONE SHALL BE CAPPED WITH A 6" LAYER OF "CRUSHER RUN" (1/5" TO DUST, STONE). SUBSEQUENT LAYERS OF ENGINEERED FILL SHALL THEN BE PLACED TO BUILDING PAD ELEVATIONS, BELOW THE 4" #57 UNDERSLAB BASE.

E. AT SOIL AREAS AROUND AND ABOVE EL. 1062 FT MSL. AREAS APPROXIMATELY AT BUILDING PAD ELAND AREAS THAT WILL RECEIVE ENGINEERED FILL SHALL BE OBSERVED BY THE GER PRIOR TO PLACING THE 1 FOOT LAYER OF #2 STONE AND 6" CAP OF CRUSHER RUN. SUBSEQUENT LAYERS OF ENGINEERED FILL SHALL THEN BE PLACED TO BUILDING PAD ELEVATIONS, BELOW THE 4" #57 UNDERSLAB BASE.

## CONCRETE

F. CONCRETE CONSTRUCTION SHALL BE PER THE APPLICABLE BUILDING CODE, ACI 318 AND ACI 301, LATEST EDITIONS.

G. CONCRETE SHALL ATTAIN THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS PER ASTM A39.

--FOOTINGS, PIERS, WALLS 3,000 PSI  
--SLAB-ON-GRADE 3,500 PSI

H. VERIFY CONCRETE STRENGTHS WITH A MINIMUM OF ONE SET OF NINE 4X8-INCH COMPRESSION CYLINDERS, (3 @ 7 DAYS, 3 @ 28, 3 SPARE).

I. EXTERIOR CONCRETE SHALL BE AIR-ENTRAINED TO PROVIDE AN AIR CONTENT OF 6+-1.5 PERCENT BY VOLUME.

J. PROVIDE CLEAR DISTANCE TO OUTERMOST REINFORCING AS FOLLOWS:

CONCRETE CAST AGAINST EARTH 3 INCHES

CONCRETE EXPOSED TO EARTH OR WEATHER:  
#5 OR SMALLER 1-1/2 INCHES  
#6 OR LARGER 2 INCHES

K. NON-SHRINK GROUT FOR COLUMNS BASE PLATES SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH: Fc = 5,000 PSI.

L. REINFORCING STEEL SHALL CONFORM TO A615-GR60. MESH SHALL CONFORM TO ASTM A186 WITH MINIMUM LAPS OF 8 INCHES. PLACING PLANS AND SHOP FABRICATION DETAILS SHALL BE IN ACCORDANCE WITH "THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES". FURNISH SUPPORT BARS AND ACCESSORIES IN ACCORDANCE WITH C.R.S.I. STANDARDS.

M. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING IN WALLS AND FOOTINGS. SPICE LAPS SHALL BE A MINIMUM OF 36 BAR DIAMETERS, UNLESS NOTED OTHERWISE. PROVIDE DOWEL S BETWEEN FOOTINGS AND WALLS OR PIERS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.

N. WALLS WITH LATERAL EARTH PRESSURES SHALL BE ADEQUATELY SHORED OR FLOOR/ROOF CONSTRUCTION SHALL BE IN PLACE AND SECURED PRIOR TO BACKFILLING.

O. INSTALLATION OF ELECTRICAL CONDUIT WITHIN THE CONCRETE SLAB-ON-GRADE IS PROHIBITED.

## 3. MASONRY

A. MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND THE "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" TMS 402/ACI-530/ASCE 5 AND THE "SPECIFICATIONS FOR MASONRY STRUCTURES" TMS 602/ACI-530.1/ASCE 6, LATEST EDITIONS.

B. MASONRY TO CONFORM TO THE FOLLOWING SPECIFICATIONS:

HOLLOW LOAD-BEARING C.M.U	ASTM C90
CONCRETE BUILDING BRICK	ASTM C55, GRADE A
MORTAR	ASTM C270, TYPE M OR S
GROUT	ASTM C476

C. MASONRY ASSEMBLIES SHALL HAVE COMPRESSIVE STRENGTH (FM) GREATER THAN OR EQUAL TO 2,000 PSI.

D. WALLS SHALL BE CONSTRUCTED USING A FULL BED OF MORTAR. VERTICAL REINFORCING SHALL BE GROUTED IN PLACE WITH 2500 PSI GROUT (GROUT SLUMP SHALL FALL BETWEEN 8 AND 11 INCHES) POUR HEIGHT AND LIFT HEIGHT SHALL NOT EXCEED 5 FEET - 0 INCHES.

E. PROVIDE CONTINUOUS HORIZONTAL JOINT REINFORCING IN MASONRY WALLS AT 16 INCHES O.C. PROVIDE AT 8 INCHES O.C. AT PARAPETS.

F. CAVITY WALLS OF BRICK AND BLOCK SHALL BE CONSTRUCTED WITH JOINT REINFORCING IN MASONRY AND ADJUSTABLE METAL ANCHORS TO BRICK.

G. UNLESS NOTED OTHERWISE, PROVIDE 16 INCH LONG BY 24 INCHES HIGH SOLID OR GROUTED BLOCK UNDER BEARING ENDS OF BEAMS.

H. PROVIDE 48 INCH REINFORCEMENT LAP AT CONTINUOUS BOND BEAM STEPS.

I. COMPOSITE WALLS SHALL HAVE THE COLLAR JOINT BETWEEN BRICK AND BLOCK GROUTED SOLID AND THE WALLS SHALL BE BUILT WITH BOTH WYTHES SIMULTANEOUSLY.

J. MASONRY WALLS SHALL HAVE CONTROL JOINTS AT 30 FEET ON CENTER UNLESS NOTED OTHERWISE.

K. REINFORCING STEEL SHALL CONFORM TO ASTM A615-GR60. LAP BARS A MINIMUM OF 48 BAR DIAMETERS. GROUT ALL REINFORCED CORES SOLID.

L. UNLESS SHOWN ON PLAN, LINTELS FOR MASONRY WALLS SHALL BE AS FOLLOWS:

OPENINGS TO 3 FT, 0 IN	3-1/2 X 3-1/2 X 1/4
3 FT, 1 IN TO 5 FT, 0 IN	4 X 3-1/2 X 5/16 - 3-1/2 HORIZONTAL
5 FT, 1 IN TO 6 FT, 0 IN	5 X 3-1/2 X 5/16 - 3-1/2 HORIZONTAL
OVER 6 FT, 0 IN	CONSULT ARCHITECT/ENGINEER

PROVIDE 1 ANGLE FOR EACH 4 INCHES OF WALL THICKNESS. LINTELS SHALL BEAR 6 INCHES MINIMUM EACH END U.N.O.

M. PROVIDE TWO-PIECE ADJUSTABLE ANCHORS TO MASONRY AT A MAXIMUM SPACING OF 24 INCHES O.C. AT ALL VERTICAL AND HORIZONTAL STRUCTURAL STEEL MEMBERS.

N. CAVITY WALLS OF BRICK WITH STUD BACKUP SHALL BE CONSTRUCTED WITH TWO-PIECE ADJUSTABLE METAL ANCHORS AT A MAXIMUM SPACING OF 16 INCHES O.C. HORIZONTAL (INTO STUDS) AND 24 INCHES O.C. VERTICAL. AT BRICK WALLS OVER 30 FEET HIGH, PROVIDE ANCHORS AT 16 INCHES O.C. HORIZONTAL AND VERTICAL.

## 4. STEEL

A. STEEL CONSTRUCTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND SHALL CONFORM TO AISC 360. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS:

WIDE FLANGE SHAPES	A992 - GR50
STEEL PLATES, CHANNELS AND ANGLES	A36
STRUCTURAL PIPES	A53 - GR B
STRUCTURAL RECTANGULAR ROUND (HSS)	A500 - GR B
ANCHOR RODS (3/4" DIAM. OR LESS)	F1554 - 36 KSI
ANCHOR RODS (7/8" DIAM. OR GREATER)	F1554 - 55 KSI
HIGH-STRENGTH BOLTS	A325
HEADED STUDS	A108

B. BOLTED CONNECTIONS TO USE A325-TYPE N, HIGH STRENGTH BOLTS IN BEARING TYPE CONNECTIONS TIGHTENED TO A SNUG TIGHT CONDITION IN ACCORDANCE WITH RCSC SPECIFICATIONS.

C. SHOP CONNECTIONS TO BE WELDED OR BOLTED. FIELD CONNECTIONS TO BE BOLTED UNLESS OTHERWISE SHOWN. BOLT HOLES TO BE STANDARD ROUND HOLES (4x1/16 INCHES) UNLESS OTHERWISE NOTED. SHORT SLOTS SHALL BE PERMITTED NORMAL TO THE LOAD DIRECTION IN SLIP CRITICAL AND BEARING TYPE CONNECTIONS AS PER AISC REQUIREMENTS.

D. IF BEAM REACTIONS ARE DENOTED ON THE DRAWINGS, BEAM-WEB CONNECTIONS FOR SHEAR AT EACH END SHALL BE DETAILED TO SUPPORT THE LOADS SHOWN OR PROVIDE THE FOLLOWING MINIMUM NUMBER OF BOLTS, WHICHEVER IS GREATER. STIFFENED SEATS SHALL BE DETAILED TO SUPPORT THE LOADS SHOWN ON THE DRAWINGS OR THE MINIMUM FACTORED LOADS INDICATED BELOW, WHICHEVER IS GREATER.

BEAM/WEB	STIFF. SEAT
W8 OR W10 2 BOLTS	20K
W12 OR W14 3 BOLTS	30K
W16 OR W18 4 BOLTS	40K
W21 OR W24 5 BOLTS	60K

E. STRUCTURAL STEEL SHALL BE GIVEN ONE SHOP COAT OF APPROVED SHOP PRIMER APPLIED TO CLEAN AND DRY SURFACES. DO NOT PAINT STEEL THAT WILL BE FIREPROOFED OR EMBEDDED IN CONCRETE.

F. STEEL BEAMS SHALL BE WELDED TO STEEL BEARING PLATES WITH 3 INCH LONG BY 1/4-INCH FILLET WELD EACH SIDE OF FLANGE (MINIMUM).

G. WELDING OF STRUCTURAL STEEL SHALL BE WITH E70XX ELECTRODES.

## 5. WOOD FRAMING (CONVENTIONAL/TYPE V)

A. FRAMING LUMBER FOR STUDS, HEADERS AND JOISTS SHALL BE HEM FIR #2, SPRUCE-PINE-FIR (SPF) #2, OR BETTER, WITH A MAXIMUM MOISTURE CONTENT OF 19-PERCENT, HAVING THE FOLLOWING MINIMUM PROPERTIES (BASED ON 2X12 MEMBERS):

BENDING STRESS "Fb"	= 850 PSI FOR SINGLE MEMBER USE
HORIZONTAL SHEAR "Fv"	= 135 PSI
COMPRESSION PERPENDICULAR TO GRAIN "Fc"	= 405 PSI
COMPRESSION PARALLEL TO GRAIN "Fc11"	= 1150 PSI
MODULUS OF ELASTICITY "E"	= 1,300,000 PSI

NOTE: SPF (SOUTH) IS NOT ACCEPTABLE.

B. ALL EXPOSED EXTERIOR FRAMING AND FRAMING IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE-TREATED (PT). FRAMING SHALL BE PRESSURE-TREATED WITH ALKALINE COPPER QUAT (ACQ) OR COPPER AZOLE (CBA-A AND CA-B), NOT SODIUM BORATE (SBX). PT LUMBER SHALL NOT BE INCISED.

C. STRUCTURAL POSTS AND TREATED LUMBER (PT) SHALL BE SOUTHERN PINE (SP) #2 OR BETTER, HAVING THE FOLLOWING MINIMUM PROPERTIES (BASED ON 2X12 MEMBERS):

STRENGTH	
BENDING STRESS "Fb"	= 750 PSI SINGLE MEMBER USE
HORIZONTAL SHEAR "Fv"	= 175 PSI
COMPRESSION PERPENDICULAR TO GRAIN "Fc"	= 565 PSI
COMPRESSION PARALLEL TO GRAIN "Fc11"	= 1,250 PSI
MODULUS OF ELASTICITY "E"	= 1,400,000 PSI

D. LAMINATED VENEER LUMBER (LVL OR MICROLAM) BEAMS SHALL CONFORM TO ASTM D 5456 AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES (BASED ON 1-3/4 X 11-7/8 MEMBERS):

BENDING STRESS "Fb"	= 2600 PSI
HORIZONTAL SHEAR "Fv"	= 285 PSI
MODULUS OF ELASTICITY "E"	= 2,000,000 PSI
BEARING STRESS "FPERP"	= 750 PSI
EQUIV SPECIFIC GRAVITY FOR CONNECTION DESIGN	= 0.50

E. PARALLEL STRAND LUMBER (PSL) COLUMNS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

BENDING STRESS "Fb"	= 2,400 PSI
HORIZONTAL SHEAR "Fv"	= 190 PSI
COMPRESSION PARALLEL TO GRAIN "Fc11"	= 2,500 PSI
MODULUS OF ELASTICITY "E"	= 1,800,000 PSI

F. AT EXTERIOR WALLS, PROVIDE SOLID BLOCKING AT 4 FEET ON CENTER BETWEEN BAND JOIST AND FIRST INTERIOR PARALLEL JOIST.

G. PREFABRICATED JOIST HANGERS, BEAM HANGERS, POST CAPS, AND POST BASES SHALL BE SIZED AND ATTACHED PER MANUFACTURER'S RECOMMENDATIONS. TO ACHIEVE AT LEAST THE MINIMUM MANUFACTURER LISTED CAPACITIES, UNO ON THE DRAWINGS. FASTENERS AND CONNECTORS UTILIZED WITH TREATED LUMBER (PT OR FRT) SHALL MEET G185 HOT-DIPPED GALVANIZING.

H. ANCHOR BOLTS CONNECTING PRESSURE-TREATED WOOD PLATES TO FOUNDATIONS, MASONRY WALLS, OR CONCRETE SLABS SHALL BE HOT-DIPPED GALVANIZED.

I. BUILT-UP STUD COLUMNS SHALL HAVE ONE JACK STUD AND THE REMAINING STUDS SHALL BE KING STUDS. MULTIPLE STUDS SHALL BE NAILED WITH 10D NAILS AT 8 INCHES O.C. PROVIDE SOLID BLOCKING OR CRIPPLE STUDS IN FLOOR SYSTEM AT ALL POINT LOADS ABOVE.

J. FREESTANDING POSTS SHALL HAVE PREFAB POSTCAP AND BASE. POSTS WITHIN WALL NEED ONLY HAVE PREFAB CAP ATTACHED TO BEAM, UNO. POSTS WITHIN WALL BEARING ON MASONRY OR CONCRETE SHALL HAVE PREFAB BASE, UNO.

K. STANDARD MEMBER CONNECTIONS SHALL BE PER FASTENING SCHEDULE IN SECTION 23 OF THE INTERNATIONAL BUILDING CODE (IBC), UNO.

L. STUD BEARING WALLS SHALL HAVE PREFAB POSTCAP AND BASE. POSTS WITHIN WALL NEED ONLY HAVE PREFAB CAP ATTACHED TO BEAM, UNO. POSTS WITHIN WALL BEARING ON MASONRY OR CONCRETE SHALL HAVE PREFAB BASE, UNO.

M. NAILS FOR FRAMING AND SHEATHING CONNECTIONS SPECIFIED IN THE DRAWINGS AND ASSOCIATED NOTES SHALL CONFORM TO ASTM F1667 AND SHALL MEET THE FOLLOWING MINIMUM SIZE REQUIREMENTS:

TYPE	DIAMETER x LENGTH
8d	0.131" x 2-1/2"
10d	0.148" x 3"
12d	0.148" x 3-1/4"
16d	0.162" x 3-1/2"
20d	0.192" x 4"

SHANK DIAMETER	MINIMUM STRENGTH
0.099" TO 0.142"	100 KSI
0.143" TO 0.177"	90 KSI
0.178" TO 0.254"	80 KSI

NOTE: NAILS USED IN STANDARD CONNECTIONS SHALL BE SIZED PER THE REQUIREMENTS OF THE BUILDING CODE.

N. ROOF MEMBERS SHALL BE CONNECTED AT EACH BEARING POINT WITH ONE PREFABRICATED GALVANIZED METAL ANCHOR. ANCHORS SHALL BE 18 GAGE MINIMUM AND SHALL BE ATTACHED TO HAVE A CAPACITY TO RESIST A 450# UPLIFT LOADING, UNLESS SHOWN OTHERWISE ON DRAWINGS.

O. THE MINIMUM DEPTH AND MAXIMUM SPACING OF WOOD TRUSSES IS SHOWN ON DRAWINGS. THE SUPPLIER SHALL ADJUST SPACING AS REQUIRED TO MEET THE LOADINGS DESIGNATED BELOW.

P. PROVIDE LSL BAND BOARD IN WOOD TRUSS SYSTEMS AT ALL PERIMETER BEARING WALLS. ALTERNATIVELY, PROVIDE 2-3/4 INCH PLYWOOD BANDS BLOCKED AND SCREWED TO JOISTS. PROVIDE SOLASH BLOCKS AND STIFFENERS AS REQUIRED TO DISTRIBUTE LOADINGS AND AS REQUIRED BY MANUFACTURER. PROVIDE SOLID BLOCKING AT INTERIOR TRUSS SUPPORTS WITH BEARING WALLS ABOVE.

Q. DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS.

R. PREFABRICATED TRUSSES SHALL BE DESIGNED FOR THE LOADS SCHEDULED ON THE DRAWINGS. SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR REVIEW. THE DESIGN OF THE BRACING REQUIRED TO LATERALLY STABILIZE THE TRUSSES AND TRUSS MEMBERS SHALL BE THE RESPONSIBILITY OF THE SPECIALTY TRUSS ENGINEER. AFFIX SEAL OF ENGINEER REGISTERED IN THE STATE OF THE PROPOSED PROJECT. TEMPORARY BRACING DURING ERECTION IS THE RESPONSIBILITY OF THE CONTRACTOR.

## 6. SHEATHING

A. FLOOR SHEATHING SHALL BE 23/32 (3/4) INCH APA RATED STURD-I (COMBINATION SUBFLOOR-UNDERLAYMENT) WOOD STRUCTURAL PANEL, TONGUE AND GROOVE, WITH SPAN RATING OF 48/24. PANELS SHALL HAVE LONG DIMENSION ORIENTED ACROSS THREE OR MORE JOISTS AND SHALL BE FASTENED WITH CONSTRUCTION ADHESIVE AND NAILS AT PANEL EDGES AND INTERMEDIATE SUPPORTS AS SCHEDULED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, PANEL EDGES NEED NOT BE BLOCKED. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

B. EXTERIOR SHEATHING SHALL BE 7/16 (1/2) INCH APA RATED WOOD STRUCTURAL PANELS UNO. AS SHEAR WALL. FASTEN PANELS TO STUDS WITH 8d NAILS AT 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. UNLESS NOTED OTHERWISE, PANEL EDGES NEED NOT BE BLOCKED. IF EXTERIOR WALLS ARE DENOTED AS SHEAR WALLS, THEY SHALL BE SHEATHED, FASTENED AND BLOCKED AS SCHEDULED ON THE DRAWINGS.

C. SHEARWALLS SHALL BE SHEATHED, FASTENED AND BLOCKED AS SCHEDULED ON THE DRAWINGS.

D. ROOF SHEATHING SHALL BE 23/32 (3/4) INCH APA RATED WOOD STRUCTURAL PANEL, TONGUE AND GROOVE, WITH SPAN RATING OF 48/24. PANELS SHALL HAVE LONG DIMENSION ORIENTED ACROSS THREE OR MORE JOISTS AND SHALL BE FASTENED WITH CONSTRUCTION ADHESIVE AND NAILS AT PANEL EDGES AND INTERMEDIATE SUPPORTS AS SCHEDULED ON THE DRAWINGS. UNLESS NOTED OTHERWISE, PANEL EDGES NEED NOT BE BLOCKED.

## 7. POST-INSTALLED ANCHORS IN CONCRETE AND MASONRY

## A. GENERAL

INSTALL ANCHORS IN STRICT CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND PROCEDURES. ALL POST-INSTALLED ANCHORS IN CONCRETE SHALL HAVE ICC APPROVAL FOR USE IN CRACKED CONCRETE.

SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE SUBMITTED FOR APPROVAL PRIOR TO USE. CONTRACTOR SHALL PROVIDE LOAD CAPACITIES DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT.

PROVIDE STANDARD STEEL FASTENERS FOR EXTERIOR USE OR WHEN PERMANENTLY EXPOSED TO WEATHER. PROVIDE GALVANIZED CARBON STEEL ANCHORS AT OTHER LOCATIONS, UNLESS OTHERWISE NOTED.

## B. PRODUCTS

## ANCHORS IN CONCRETE:

--EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ.  
--UNDERCUT ANCHORS SHALL BE HILTI HDA.  
--SCREW ANCHORS SHALL BE HILTI KWIK HUS.  
--ADHESIVE ANCHORS SHALL BE HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HIT-Z ROD.  
OR WITH HILTI HOLLOW DRILL BIT SYSTEM WITH HAS-E THREADED ROD.

## ANCHORS IN MASONRY:

--EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ. GROUT MASONRY CELLS SOLID WITH 2000 PSI GROUT AT ANCHOR LOCATIONS.  
--SCREW ANCHORS SHALL BE HILTI KWIK HUS. GROUT MASONRY CELLS SOLID WITH 2000 PSI GROUT AT ANCHOR LOCATIONS.  
--ADHESIVE ANCHORS IN SOLID MASONRY SHALL BE HILTI HIT-HY 270 ADHESIVE ANCHORING SYSTEM. STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR HILTI HUS-IN INTERNALLY THREADED INSERT.  
--ADHESIVE ANCHORS IN HOLLOW OR MULTI-WYTHE MASONRY SHALL BE HILTI HIT-HY 270 ADHESIVE ANCHORING SYSTEM. STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR HILTI HIT-IC INTERNALLY THREADED INSERT. THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER THE ADHESIVE MANUFACTURER'S RECOMMENDATION.

## C. INSTALLATION

ALL INSTALLATION PROCEDURES SHALL BE PER MANUFACTURERS RECOMMENDATIONS. COORDINATE AND/OR PROVIDE FOR THIRD PARTY INSPECTION AS REQUIRED BY BUILDING CODE OR LOCAL JURISDICTION.

ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHOR TO EDGE OF CONCRETE OR MASONRY. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE DISTANCE INDICATED ON THE DRAWINGS; IF NOT SHOWN, COMPLY WITH MINIMUM SPACING AND EDGE DISTANCE FOR FULL ANCHOR CAPACITY, AS SPECIFIED BY MANUFACTURER.

EXISTING REINFORCING BARS IN THE CONCRETE OR MASONRY STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. DO NOT CUT OR DAMAGE REINFORCING BARS UNLESS SPECIFICALLY PERMITTED IN THE DRAWINGS.

PRIOR TO DRILLING, THE CONTRACTOR SHALL LOCATE REINFORCING BAR POSITIONS IN THE IMMEDIATE VICINITY OF PROPOSED POST-INSTALLED ANCHORS USING GPR, X-RAY, OR OTHER NON-DESTRUCTIVE MEANS.

WHEN CONFLICTS BETWEEN PROPOSED ANCHORS AND EXISTING REINFORCING BARS EXIST, SUBMIT RESULTS OF BAR LOCATIONS TO ARCHITECT / ENGINEER FOR REVIEW AND FURTHER DIRECTION.

WARNING: THE STRUCTURAL INTEGRITY OF THE BUILDING SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. STRUCTURAL MEMBERS ARE NOT SELF-BRACING UNTIL PERMANENTLY AFFIXED TO THE STRUCTURE. THE STRUCTURAL ENGINEERS ASSUME NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.

ABBREVIATIONS & LEGEND			
A	ANCHOR BOLT	K	KIP
ADDL	ADDITIONAL	KO	KNOCK-OUT
ADJ	ADJACENT	KSI	KIPS PER SQ. INCH
AFF	ABOVE FINISH FLOOR		
ALT	ALTERNATE	L	LINTEL MARK
APPROX	APPROXIMATE(LY)	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECT(URAL)	LLV	LONG LEG VERTICAL
		LL	LIVE LOAD
B	BEAM MARK	LP	LOW POINT
BF	BOTTOM OF FOOTING ELEVATION	LVL	LAMINATED VENEER LUMBER
BM	BEAM		
BLKG	BLOCKING	M	MANUF
BLDG	BUILDING	MANUF	MANUFACTURED(ED)
BO	BOTTOM OF DECK	MAS	MASONRY
BOS	BOTTOM OF STEEL	MAX	MAXIMUM
BOTT	BOTTOM	MIN	MINIMUM
BP	BEARING PLATE MARK	MISC	MISCELLANEOUS
BRG	BEARING	MO	MASONRY OPENING
BSMT	BASEMENT	MATL	MATERIAL
BTWN	BETWEEN	MTL	METAL
C	COLUMN MARK	N	NOT TO SCALE
CIP	CAST IN PLACE	NTS	NEAR SIDE
CJ	CONTROL/CONSTRUCTION JOINT	NIC	NOT IN CONTRACT
CLR	CLEAR(ANCE)		
CMU	CONCRETE MASONRY UNIT	O	ON CENTER(S)
COL	COLUMN	OC	ON CENTER(S)
COM	CENTER OF MASONRY WALL	OPNG	OPENING
COMP	COMPOSITE	OPP	OPPOSITE
CONC	CONCRETE	OF	OUTSIDE FACE
CONC	CONCRETE		
CONC	CONNECTION	P	PIER MARK
CONST	CONSTRUCTION	P	PIER MARK
CONT	CONTINUOUS	PC	PREFRST CONCRETE
COORD	COORDINATE(ION)	PFB	POWER DRIVEN FASTENER
COORD	CENTER OF STUD	PERM	PERMETER
		PL	PLATE
D	DEFORMED BAR ANCHORS	PLF	POUNDS PER LINEAR FOOT
DBA	DETAIL	PLF	PREFRST PLANK MARK
DIA	DIAMETER	PROJ	PROJECTION
DIAG	DIAGONAL	PSF	POUNDS PER SQ. FOOT
DN	DOWN	PSI	POUNDS PER SQ. INCH
DWG	DRAWING	PSL	PARALLEL STRAND LUMBER COLUMN
DL	DOUBLE	PT	POST TENSIONED/PRESSURE TREATED
DRL	DEAD LOAD		
E		Q	QTY
EA	EACH		QUANTITY
EE	EACH END		
EF	EACH FACE		
EL	ELEVATION	R	RADIUS
ELEV	ELEVATION	RD	ROOF DRAIN
ED	EDGE OF DECK	REV	REVISION
EOS	EDGE OF JOIST	REV	REVISION (REVISED)
EJ	EDGE OF SLAB	REIN	REINFORCEMENT
EQ	EQUAL	REM	REMAINDER
EQUIP	EQUIPMENT	REQD	REQUIRED
ES	EACH SIDE	RTU	ROOF TOP UNIT
EW	EACH WAY		
EXIST, EX	EXISTING	S	
EXP	EXPANSION	SB	SOIL BORING
EXT	EXTERIOR	SC	SLIP CRITICAL
		SE	SPECIALTY DESIGN ENGINEER
F		SIM	SIMILAR
F	FOOTING MARK	SJI	STEEL JOIST INSTITUTE
FD	FLOOR DRAIN	SOG	SLAB ON GRADE
FDN	FOUNDATION	SO	SQUARE
FOB	FACE OF BUILDING	STD	STANDARD
FOM	FACE OF MASONRY WALL	STL	STEEL
FOS	FACE OF STUD	STRUCT	STRUCTURAL
FS	FOOTING STEP	SPRCS	SPACES
FUTG	FOOTING	SNL	SNOW LOAD
FUT	FUTURE	SS	STAINLESS STEEL
G		T	TEMP
GA	GAGE, GAUGE	TEMP	TEMPORARY
GALV	GALVANIZED	TF	TOP OF FOOTING ELEVATION
GC	GENERAL CONTRACT(OR)	THK	THICKNESS, (ENED)
G	GIRDER TRUSS	TJ	WOOD JOIST
		TO	THROUGH OUT
H		TOC	TOP OF CONCRETE
H	HORIZ	TOP	TOP OF PIER ELEVATION
HP	HIGH POINT	TOS	TOP OF STEEL ELEVATION
HS	HIGH STRENGTH	TOW	TOP OF WALL ELEVATION
HT	HEIGHT	TYP	TYPICAL
HTR	HIP TRUSS		
		U	
I		UNEXC	UNEXCAVATED
I	INFORMATION	UNO	UNLESS NOTED OTHERWISE
INFO	INSIDE FACE	UMD	UNDERSIDE METAL DECK ELEVATION
V		V	VERT
J	JOIST BEARING ELEVATION	VIF	VERIFY IN FIELD
JST	JOIST		
JT	JOINT	W	WITH
JTR	JACK TRUSS	W/	WIND FRAME
		WP	WORK POINT
		WWF	WELDED WIRE FABRIC



30x42 SCHEDULE OF SPECIAL INSPECTIONS									
	VERIFICATION AND INSPECTION	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	REFERENCED STANDARD	IBC REFERENCE	SCOPE OF SERVICE	RESPONSIBLE PARTY		
	STRUCTURAL STEEL				1705.2	-			
1.	HIGH-STRENGTH BOLTING: INSPECTION TASKS PRIOR TO BOLTING								
A.	MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	Y	X	-	1705.2	-	SIER		
B.	FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	Y	-	X	AISC 360 & applicable ASTM material standards	1705.2	SIER		
C.	PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).	Y	-	X	AISC 360	1705.2	SIER		
D.	PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	Y	-	X	AISC 360	1705.2	SIER		
E.	CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION & HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	Y	-	X	AISC 360	1705.2	SIER		
F.	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED & DOCUMENTED FOR FASTENER ASSEMBLIES & METHODS USED	Y	-	X	AISC 360	1705.2	SIER		
G.	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, & OTHER FASTENER COMPONENTS	Y	-	X	AISC 360	1705.2	SIER		
2.	HIGH-STRENGTH BOLTING: INSPECTION TASKS DURING BOLTING								
A.	FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES & WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	Y	-	X	AISC 360	1705.2	SIER		
B.	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING OPERATION.	Y	-	X	AISC 360	1705.2	SIER		
C.	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	Y	-	X	AISC 360	1705.2	SIER		
D.	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	Y	-	X	AISC 360	1705.2	SIER		
3.	HIGH-STRENGTH BOLTING: INSPECTION TASKS AFTER BOLTING								
A.	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	Y	X	-	AISC 360	1705.2	SIER		
4.	WELDING: INSPECTION TASKS PRIOR TO WELDING								
A.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	Y	X	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
B.	MANUFACTURER'S CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	SIER		
C.	MATERIAL IDENTIFICATION (TYPE/GRADE).	Y	-	X	AISC 360	1705.2	SIER		
D.	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):								
1.)	JOINT PREPARATION	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
2.)	DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
3.)	CLEANLINESS (CONDITION OF STEEL SURFACES)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
4.)	TACKLING (TACK WELD QUALITY & LOCATION)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
5.)	BACKING TYPE & FIT (IF APPLICABLE)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
E.	CONFIGURATION & FINISH OF ACCESS HOLES	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
F.	FIT-UP OF FILLET WELDS								
1.)	DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
2.)	CLEANLINESS (CONDITION OF STEEL SURFACES)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
3.)	TACKLING (TACK WELD QUALITY & LOCATION)	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
5.	WELDING: INSPECTION TASKS DURING WELDING								
A.	USE OF QUALIFIED WELDERS	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
B.	CONTROL & HANDLING OF WELDING CONSUMABLES INCLUDING PACKAGING & EXPOSURE CONTROL	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
C.	ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION, & TEMPERATURE	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
D.	WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PRE-HEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN.MAX.), PROPER POSITION (F.V.H.O.H).	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
E.	WELDING TECHNIQUES: INTERPASS & FINAL CLEANING: EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
6.	WELDING: INSPECTION TASKS AFTER WELDING								
A.	WELDS CLEANED	Y	-	X	AISC 360 & applicable AWS Documents	1705.2	SIER		
B.	SIZE, LENGTH, & LOCATION OF WELDS	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	SIER		
C.	WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	SIER		
D.	ARC STRIKES	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	SIER		
E.	K-AREA	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	SIER		
F.	BACKING REMOVED & WELD TABS REMOVED (IF REQUIRED)	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	SIER		
G.	REPAIR ACTIVITIES	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	SIER		
H.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	Y	X	-	AISC 360 & applicable AWS Documents	1705.2	SIER		
7.	STEEL ELEMENT OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT								
A.	PLACEMENT & INSTALLATION OF STEEL DECK	N	-	-	AWS D1.3 AISC 360	1705.2	-		
B.	PLACEMENT & INSTALLATION OF STEEL HEADED STUD ANCHORS	N	-	-	AWS D1.1 AISC 360	1705.2	-		
C.	DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	N	-	-	AISC 360	1705.2	-		
8.	INSPECTION OF FABRICATORS & FABRICATION PROCEDURES	N	-	-	AISC 360	1704.2.5	-		
1.	COLD-FORMED METAL DECK								
1.	VERIFY COMPLIANCE OF MATERIALS (ALL DECK AND ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS AND DOCUMENT ACCEPTANCE OR REJECTION	N	-	-	SDI QA/QC	1705.2.2	-		
2.	VERIFY COMPLIANCE OF INSTALLATION OF ALL DECK AND ACCESSORIES WITH CONSTRUCTION DOCUMENTS AND VERIFY ACCEPTANCE OR REJECTION	N	-	-	SDI QA/QC	1705.2.2	-		
3.	VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS	N	-	-	SDI QA/QC	1705.2.2	-		
4.	DECK WELDING								
A.	WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-		
B.	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-		
C.	MATERIAL IDENTIFICATION (TYPE/GRADE).	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-		
D.	CHECK WELDING EQUIPMENT	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-		
E.	USE OF QUALIFIED WELDERS	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-		
F.	CONTROL & HANDLING OF WELDING CONSUMABLES	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-		
G.	ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION, & TEMPERATURE	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-		
H.	WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PRE-HEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN.MAX.), PROPER POSITION (F.V.H.O.H).	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-		
I.	VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-		
J.	WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-		
K.	VERIFY REPAIR ACTIVITIES	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-		
L.	DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	N	-	-	SDI QA/QC & applicable AWS Documents	1705.2.2	-		
5.	DECK MECHANICAL FASTENINGS								
A.	MANUFACTURER INSTALLATION INSTRUCTIONS AVAILABLE FOR MECHANICAL FASTENERS	N	-	-	SDI QA/QC	1705.2.2	-		
B.	PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION	N	-	-	SDI QA/QC	1705.2.2	-		
C.	PROPER STORAGE FOR MECHANICAL FASTENERS	N	-	-	SDI QA/QC	1705.2.2	-		
D.	FASTENERS ARE POSITIONED AS REQUIRED	N	-	-	SDI QA/QC	1705.2.2	-		
E.	FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS	N	-	-	SDI QA/QC	1705.2.2	-		
F.	CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS.	N	-	-	SDI QA/QC	1705.2.2	-		
G.	CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS.	N	-	-	SDI QA/QC	1705.2.2	-		
H.	CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS.	N	-	-	SDI QA/QC	1705.2.2	-		
I.	VERIFY REPAIR ACTIVITIES	N	-	-	SDI QA/QC	1705.2.2	-		
J.	DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS	N	-	-	SDI QA/QC	1705.2.2	-		
1.	OPEN-WEB STEEL JOISTS AND JOIST GRIDERS								
1.	END CONNECTIONS - WELDING OR BOLTED	N	-	-	SJI Specifications	1705.2.3	-		
2.	BRIDGING - HORIZONTAL OR DIAGONAL								
A.	STANDARD BRIDGING	N	-	-	SJI Specifications	1705.2.3	-		
B.	BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS	N	-	-	Construction documents & approved shop drawings	1705.2.3	-		
1.	CONCRETE								
1.	INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, & PLACEMENT.	Y	-	X	ACI 318	1705.3	VERIFY SIZE, LOCATION, SPACING ORIENTATION, COVER, SPlicing, & CONFORMANCE WITH THE CONTRACT DOCUMENTS, AS SUPPLEMENTED WITH APPROVED SHOP DRAWINGS. OR OTHER SUBMITTALS. CONFIRM THAT THE SURFACE OF THE REINFORCING STEEL IS FREE OF FORM RELEASE OIL OR OTHER	SIER	
2.	INSPECTION OF REINFORCING STEEL WELDING.								
A.	VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	N	-	-	AWS D1.4 ACI 318	1705.3	-	-	
B.	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	N	-	-	AWS D1.4 ACI 318	1705.3	-	-	
C.	INSPECT ALL OTHER WELDS	N	-	-	AWS D1.4 ACI 318	1705.3	-	-	

30x42 SCHEDULE OF SPECIAL INSPECTIONS									
	VERIFICATION AND INSPECTION	Y/N	FREQUENCY CONTINUOUS	FREQUENCY PERIODIC	REFERENCED STANDARD	IBC REFERENCE	SCOPE OF SERVICE	RESPONSIBLE PARTY	
3.	INSPECT ANCHORS CAST-IN CONCRETE.	Y	-	X	ACI 318	1705.3	PRECISE LOCATION OF ANCHOR RODS IS NOT EXPECTED BUT VERIFY THE CONTRACTOR HAS TAKEN APPROPRIATE STEPS TO CORRECTLY POSITION THEM SUCH AS ENGAGING A SURVEYOR OR SETTING UP A SYSTEM OF STRING LINES & BATTER BOARDS & THAT CORRECT GRADE & SIZE OF ANCHORS IS	SIER	
4.	INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE.								
A.	ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	Y	X	-	ACI 318		0		
B.	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE	Y	-	X	ACI 318		0		
5.	VERIFYING USE OF REQUIRED DESIGN MIX.	Y	-	X	ACI 318	1705.3	VERIFY APPROVED MIX DESIGN	SIER	
6.	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP & AIR CONTENT TESTS, & DETERMINE THE TEMPERATURE OF THE CONCRETE.	Y	X	-	ASTM C 172/ASTM C 31/ACI 318	1705.3	TEST IN ACCORDANCE WITH PROJECT SPECIFICATIONS, BUT NOT LESS THAN ONCE PER DAY PER CLASS OF CONCRETE OR ONCE PER 150 CUBIC YARDS PER DAY OR ONCE PER 5,000 SQUARE FEET OF SLAB OR WALL PER DAY. CYLINDERS MUST BE PROPERLY HANDLED & STORED ON SITE UNTIL TRANS	SIER	
7.	INSPECTION OF CONCRETE & SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	Y	X	-	ACI 318	1705.3	VERIFY CONFORMANCE WITH PROJECT SPECIFICATIONS. INSPECTOR SHALL BE WHERE THE CONCRETE IS BEING PLACED RATHER THAN WHERE CONCRETE TRUCKS ARE DISCHARGING THEIR LOADS. INSPECTOR NEEDS TO BE PRESENT WHILE SLAB IS BEING FLOATED & POWER TROWELED.	SIER	
8.	INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES.	Y	-	X	ACI 318	1705.3	VERIFY CONFORMANCE WITH PROJECT SPECIFICATIONS & ACI	SIER	
9.	INSPECTION OF PRESTRESSED CONCRETE:								
A.	APPLICATION OF PRESTRESSING FORCES.	N	-	-	ACI 318	1705.3	-	-	
B.	GROUTING OF BONDED PRESTRESSING TENDONS.	N	-	-	ACI 318	1705.3	-	-	
10.	ERECTION OF PRECAST CONCRETE MEMBERS	N	-	-	ACI 318	1705.3	-	-	
11.	VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE & PRIOR TO REMOVAL OF SHORES & FORMS FROM BEAMS & STRUCTURAL SLABS	N	-	-	ACI 318	1705.3	-	-	
12.	INSPECT FORMWORK FOR SHAPE, LOCATION & DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	N	-	-	ACI 318	1705.3	-	-	
	MASONRY								
	LEVEL A QUALITY ASSURANCE: RISK CATEGORY I, II, OR III STRUCTURES DESIGNED IN ACCORDANCE WITH PART 4 OR APPENDIX A.	Y	-	-		1705.4			
	LEVEL B QUALITY ASSURANCE: RISK CATEGORY IV STRUCTURES DESIGNED IN ACCORDANCE WITH CHAPTERS 12 OR 13 & RISK CATEGORY I, II, OR III STRUCTURES DESIGNED IN ACCORDANCE WITH CHAPTERS OTHER THAN THOSE IN PART 4 OR APPENDIX A.	N	-	-		1705.4			
	LEVEL C QUALITY ASSURANCE: RISK CATEGORY IV STRUCTURES DESIGNED IN ACCORDANCE WITH CHAPTERS OTHER THAN PART 4 OR APPENDIX A.	N	-	-		1705.4			
1.	PRIOR TO CONSTRUCTION VERIFY CERTIFICATES OF COMPLIANCE USED IN MASONRY CONSTRUCTION AND DURING CONSTRUCTION COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS & THE APPROVED SUBMITTALS SHALL BE VERIFIED.	Y	-	X	ACI 530.1	1705.4	VERIFY COMPLIANCE WITH APPROVED SHOP DRAWINGS.	SIER	
2.	VERIFICATION OF F.M. & F.A.C. PRIOR TO CONSTRUCTION (AND FOR EVERY 5,000 SQUARE FEET DURING CONSTRUCTION FOR LEVEL C).	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
3.	VERIFICATION OF PROPORTIONS OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, & GROUT OTHER THAN SELF-CONSOLIDATING GROUT AS DELIVERED TO THE SITE OR PROPORTIONS OF SITE PREPARED MORTAR.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
4.	VERIFICATION OF SLUMP FLOW & VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
5.	THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:								
A.	PROPORTIONS OF SITE-PREPARED MORTAR, GROUT, & PRESTRESSING GROUT FOR BONDED TENDONS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
B.	PLACEMENT OF MASONRY UNITS & CONSTRUCTION OF MORTAR JOINTS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
C.	GRADE, TYPE, & SIZE OF REINFORCEMENT, ANCHOR BOLTS, PRESTRESSING TENDONS, & ANCHORAGES	N	-	-	TMS 602/ACI 530/ASCE 5/TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
D.	PLACEMENT OF REINFORCEMENT, CONNECTORS & PRESTRESSING TENDONS & ANCHORAGES.	N	-	-	TMS 602/ACI 530/ASCE 5/TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
E.	GROUT SPACE PRIOR TO GROUTING.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
F.	PLACEMENT OF GROUT & PRESTRESSING GROUT FOR BONDED TENDONS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
G.	SIZE & LOCATION OF STRUCTURAL ELEMENTS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
H.	TYPE, SIZE & LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.	N	-	-	TMS 602/ACI 530/ASCE 5	1705.4	-	-	
I.	WELDING OF REINFORCEMENT.	N	-	-	TMS 602/ACI 530/ASCE 5	1705.4	-	-	
J.	PREPARATION, CONSTRUCTION & PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
K.	APPLICATION & MEASUREMENT OF PRESTRESSING FORCE.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
L.	PLACEMENT OF AAC MASONRY UNITS & CONSTRUCTION OF THIN-BED MORTAR JOINTS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
M.	PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
N.	VERIFY PRE-STRESSING TECHNIQUE IS IN COMPLIANCE AS CONSTRUCTION BEGINS	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
6.	OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	N	-	-	TMS 602/ACI 530.1/ASCE 6	1705.4	-	-	
	WOOD CONSTRUCTION								
1.	INSPECTION OF FABRICATORS & FABRICATION PROCEDURES FOR PREFABRICATED WOOD STRUCTURAL ELEMENTS.	Y	-	X		1705.5	-		SIER
2.	HIGH-LOAD DIAPHRAGMS DESIGNED IN ACCORDANCE WITH SECTION 2306.2	N	-	X		1705.5	-		SIER
3.	METAL PLATE CONNECTED WOOD TRUSSES SPANNING 60 FEET OR MORE	N	-	-		1705.5	-		
1.	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	Y	-	X	Geotechnical Report	1705.6	-		SIER
2.	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH & HAVE REACHED PROPER MATERIAL	Y	-	X	Geotechnical Report	1705.6	-		SIER
3.	PERFORM CLASSIFICATION & TESTING OF COMPACTED FILL MATERIALS.	Y	-	X	Geotechnical Report	1705.6	-		SIER
4.	VERIFY USE OF PROPER MATERIALS, DENSITIES, & LIFT THICKNESSES DURING PLACEMENT & COMPACTION OF COMPACTED FILL.	Y	X	-	Geotechnical Report	1705.6	TEST FREQUENCY PER SPECIFICATIONS, BUT NOT LESS THAN ONE TEST EVERY 2,000 SQUARE FEET FOR EACH LAYER OF FILL OR PROOF-ROLLING	SIER	
5.	PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE & VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		-	X	Geotechnical Report	1705.6			SIER
	DRIVEN DEEP FOUNDATIONS								
1.	VERIFY ELEMENT MATERIALS, SIZES, & LENGTHS COMPLY WITH THE REQUIREMENTS.	N	-	-		1705.7	-	-	
2.	DETERMINE CAPACITIES OF TEST ELEMENTS & CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.	N	-	-		1705.7	-	-	
3.	OBSERVE DRIVING OPERATIONS & MAINTAIN COMPLETE & ACCURATE RECORDS FOR EACH ELEMENT.	N	-	-		1705.7	-	-	
4.	VERIFY PLACEMENT LOCATIONS & PLUMBNESS, CONFIRM TYPE & SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP & BUTT ELEVATIONS, & DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	N	-	-		1705.7	-	-	
5.	PERFORM ADDITIONAL INSPECTIONS FOR STEEL ELEMENTS PER STEEL INSPECTION REQUIREMENTS	N	-	-		1705.7	-	-	
6.	PERFORM ADDITIONAL INSPECTIONS FOR CONCRETE & CONCRETE-FILLED ELEMENTS PER CONCRETE INSPECTION REQUIREMENTS.	N	-	-		1705.7	-	-	
7.	PERFORM ADDITIONAL INSPECTIONS FOR SPECIALTY ELEMENTS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN CHARGE.	N	-	-		1705.7	-	-	
	CAST-IN-PLACE DEEP FOUNDATIONS								
1.	OBSERVE DRILLING OPERATIONS & MAINTAIN COMPLETE & ACCURATE RECORDS FOR EACH ELEMENT.	N	-	-		1705.8	-	-	
2.	VERIFY PLACEMENT LOCATIONS & PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE), & ADEQUATE END-BEARING STRATA CAPACITY, RECORD CONCRETE OR GROUT VOLUMES	N	-	-		1705.8	-	-	
3.	PERFORM ADDITIONAL INSPECTIONS FOR CONCRETE ELEMENTS PER CONCRETE INSPECTION REQUIREMENTS.	N	-	-		1705.8	-	-	
	HELICAL PILE FOUNDATIONS								
1.	RECORD INSTALLATION EQUIPMENT USED, PILE DIMENSIONS, TIP ELEVATIONS, FINAL DEPTH, & FINAL INSTALLATION TORQUE.	N	-	-	Geotechnical Report & Approved Shop Drawings.	1705.9	-	-	
	SPRAYED FIRE-RESISTANT MATERIALS								
1.	CONDITIONS OF SUBSTRATES	N	-	-	Approved fire-resistance design	1705.14	-	-	
2.	THICKNESS OF APPLICATION	N	-	-	Approved fire-resistance design	1705.14	-	-	
3.	DENSITY IN POUNDS PER CUBIC FOOT	N	-	-	Approved fire-resistance design	1705.14	-	-	
4.	BOND STRENGTH ADHESION/COHESION	N	-	-	Approved fire-resistance design	1705.14	-	-	
5.	CONDITION OF FINISHED APPLICATION	N	-	-	Approved fire-resistance design	1705.14	-	-	
6.	FIRE-RESISTANT PENETRATIONS & JOINTS	N	-	-	Approved fire-resistance design	1705.17	-	-	
	LIGHT GAGE METAL FRAMING	N	-	-	Approved shop drawings		-	-	
	MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS	N	-	-	AWCI-128 & approved fire-resistance design	1705.15	-	-	
	EXTERIOR INSULATION & FINISH SYSTEMS (EIFS)	N	-	-	-	1705.16	-	-	

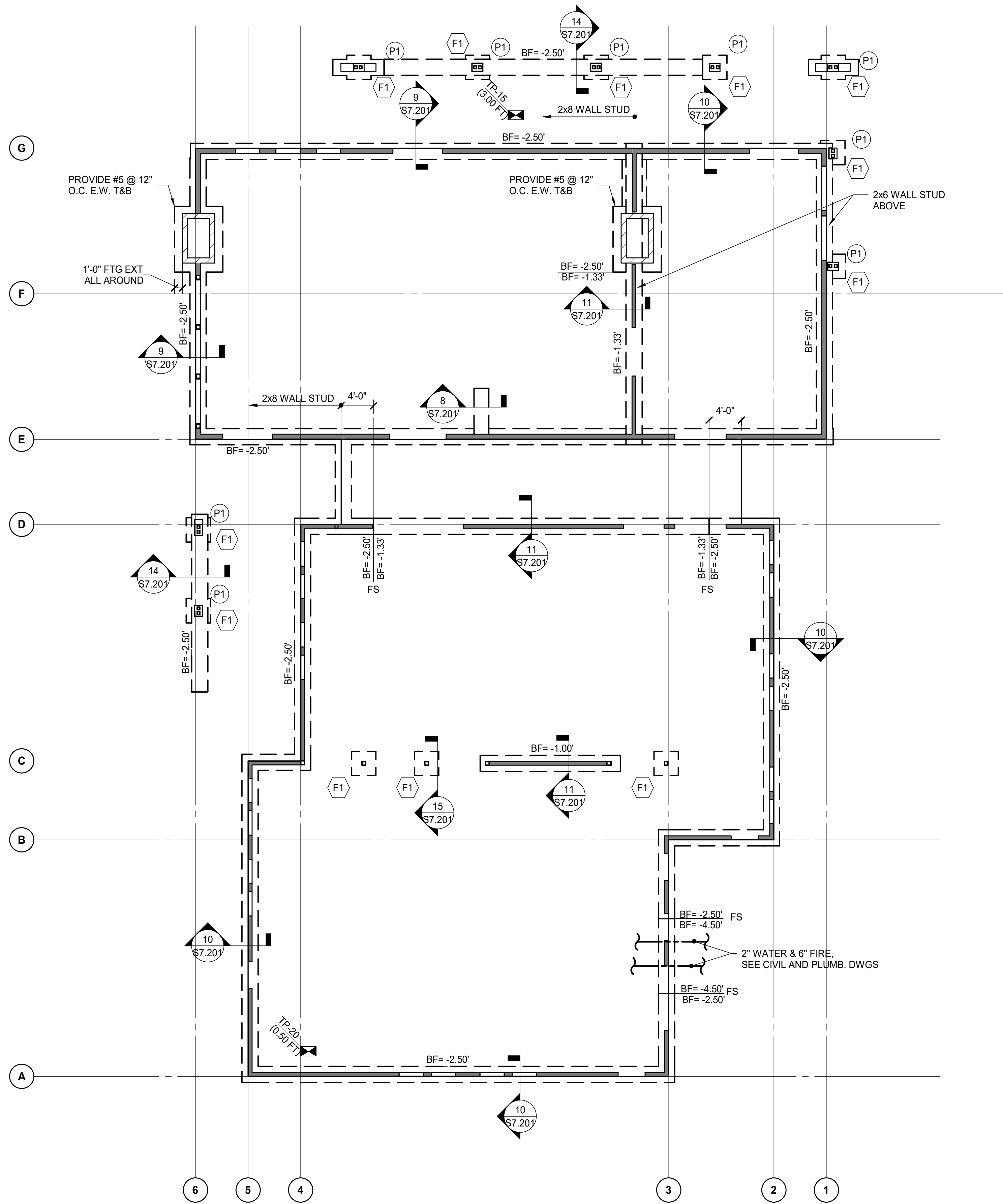




KEY PLAN  
SCALE: 1" = 50'-0"





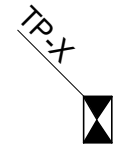


FOUNDATION PLAN

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

NOTES

- FLOOR CONSTRUCTION: 4" CONCRETE SLAB-ON-GRADE REINFORCED WITH ONE LAYER OF 6X8-W14 X W14 WWF IN THE TOP 1/3 OF SLAB PLACED OVER 10 MIL VAPOR RETARDER ON 4" LAYER OF COMPACTED #57 STONE.
- TOP OF CONCRETE ELEVATION = 0.0' REFERENCE (ACTUAL ELEVATION= 1012.40')
- FS DENOTES FOOTING STEP, SEE 2/S7.201
- TP-xx DENOTES APPROXIMATE TEST PIT LOCATION. (xx) DENOTES ESTIMATED UNDERCUTS TO SUITABLE SOILS.



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S7.100  
FOUNDATION PLAN  
3  
NORTH  
©2020

www.3north.com  
804 232 8900

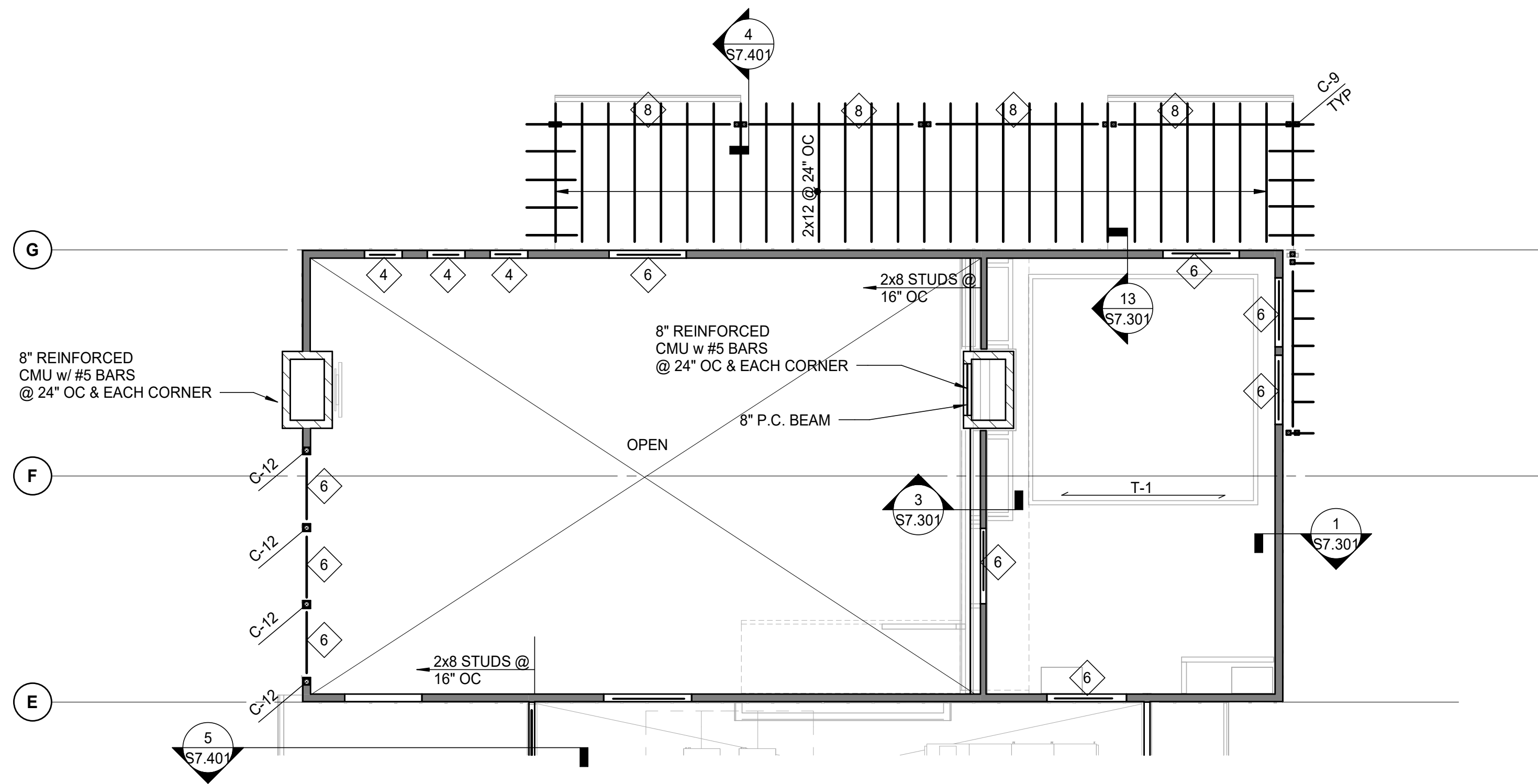
REVISION  
S PERMIT

PERMIT SET

06/11/2021

06/11/2021





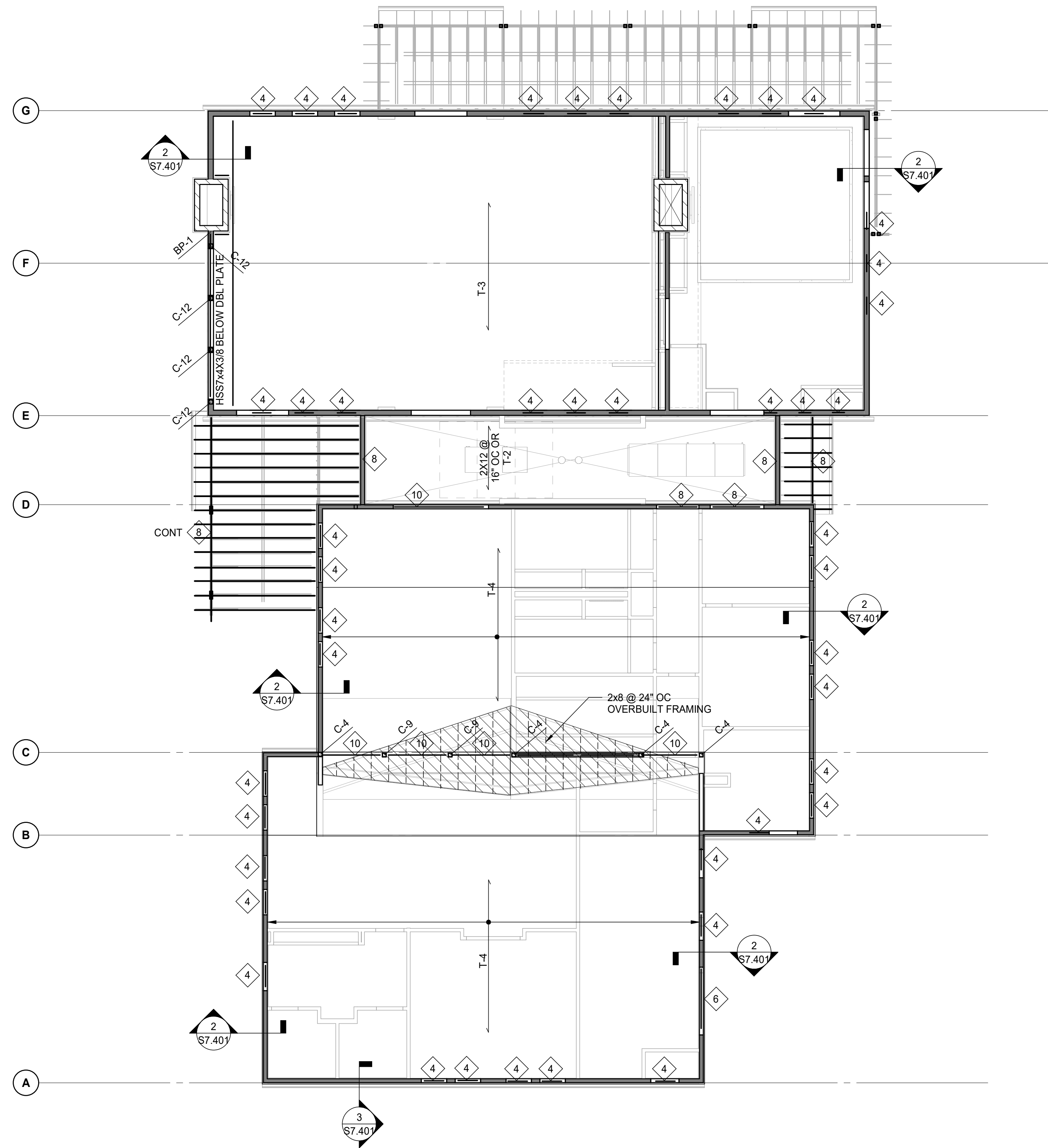
### LEVEL 2 FRAMING PLAN

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

#### NOTES:

1. TYPICAL FLOOR CONSTRUCTION SHALL BE AS FOLLOWS: UP TO 1" THICK GYPCRETE TOPPING OVER 23/32" (3/4") APA RATED STURDI-FLOOR TONGUE AND GROOVE PANELS GLUED AND SCREWED TO 18" TRUSSES OVER 2x WOOD BEARING WALLS. SEE THIS SHEET FOR SCHEDULE AND TRUSS LOADING INFORMATION.
2. LOW ROOF CONSTRUCTION SHALL BE AS FOLLOWS: 3/4" STRUCTURAL SHEATHING ON PRE-ENGINEERED WOOD ROOF TRUSSES @ 24" OC.
3. INTERIOR TOP OF SHEATHING = 11'-8".
3. LOW ROOF SHEATHING VARIES, SEE ARCH.
4. SEE S7.301 FOR TYPICAL HEADERS, STUDS AT OPENINGS, BEAM AND COLUMN SCHEDULES.
6. ■■■■ DENOTES BEARING WALL. WALL STUDS TO BE 2x6 @ 16" OC, UNO ON PLAN.

TRUSS/JOIST SHOP DRAWING SUBMITTAL SHALL BE COORDINATED WITH AND SHALL SHOW ALL BATHTUB, SHOWER AND TOILET DRAINS AND ALL MECHANICAL SHAFTS. ADJUST JOIST SPACING AND/OR ADD JOISTS AND HEADERS TO CLEAR PLUMBING & MECHANICAL.



### ROOF FRAMING PLAN

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

#### NOTES

1. ROOF CONSTRUCTION 3/4" STRUCTURAL SHEATHING ON PRE-ENGINEERED ROOF WOOD TRUSSES @ 24" O.C.
2. ROOF TOP OF SHEATHING VARIES, SEE ARCH.
3. TYPICAL SECTIONS SHOWN ARE APPLICABLE TO SIMILAR CONDITIONS EVEN IF MARKS ARE NOT SHOWN.
4. SEE S7.301 FOR TYPICAL HEADERS AND STUDS AT OPENINGS, BEAM AND COLUMN SCHEDULES.
6. ■■■■ DENOTES BEARING WALL. WALL STUDS TO BE 2x6 @ 16" OC, UNO ON PLAN.
6. BP-1 DENOTES 15x7x1/2 STEEL PLATE @/ (2)-1/2"Ø x 6" LONG HEADED STUDS INTO SOLID GROUTED CMU.



**TERRACES AT HIGH MOUNTAIN**  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

**S7.101**  
LEVEL 2 & ROOF FRAMING  
PLANS  
12/11/20

www.3north.com  
804 232 8900

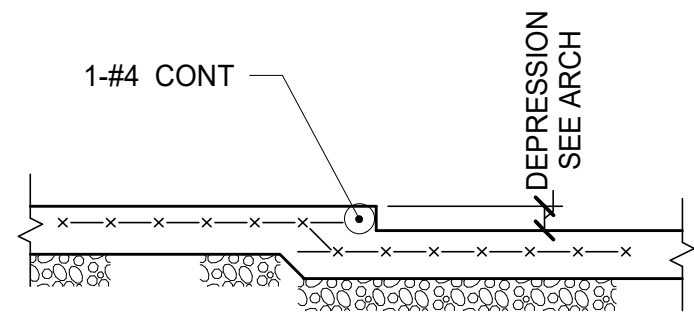
REVISION  
S PERMIT

PERMIT SET

06/11/2021

06/11/2021

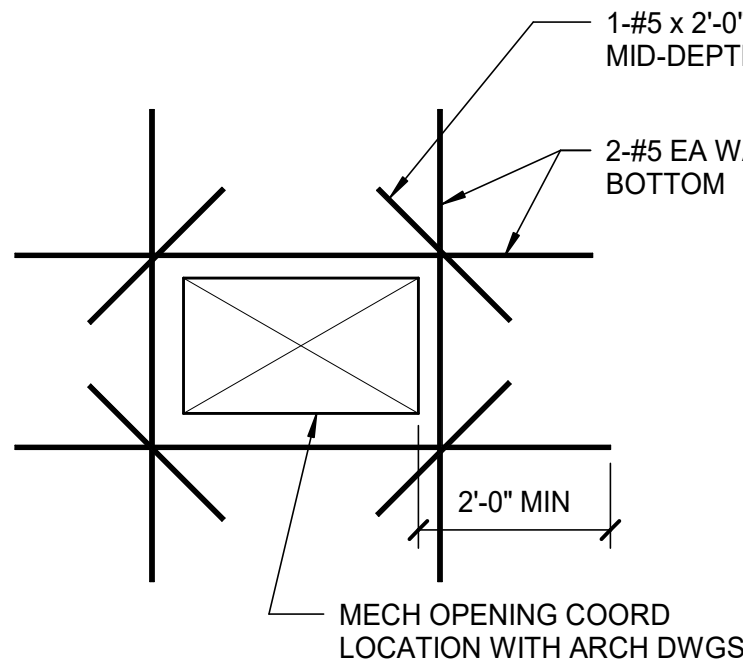




TYPICAL FLOOR DEPRESSION

SECTION  
SCALE: 1/2" = 1'-0"

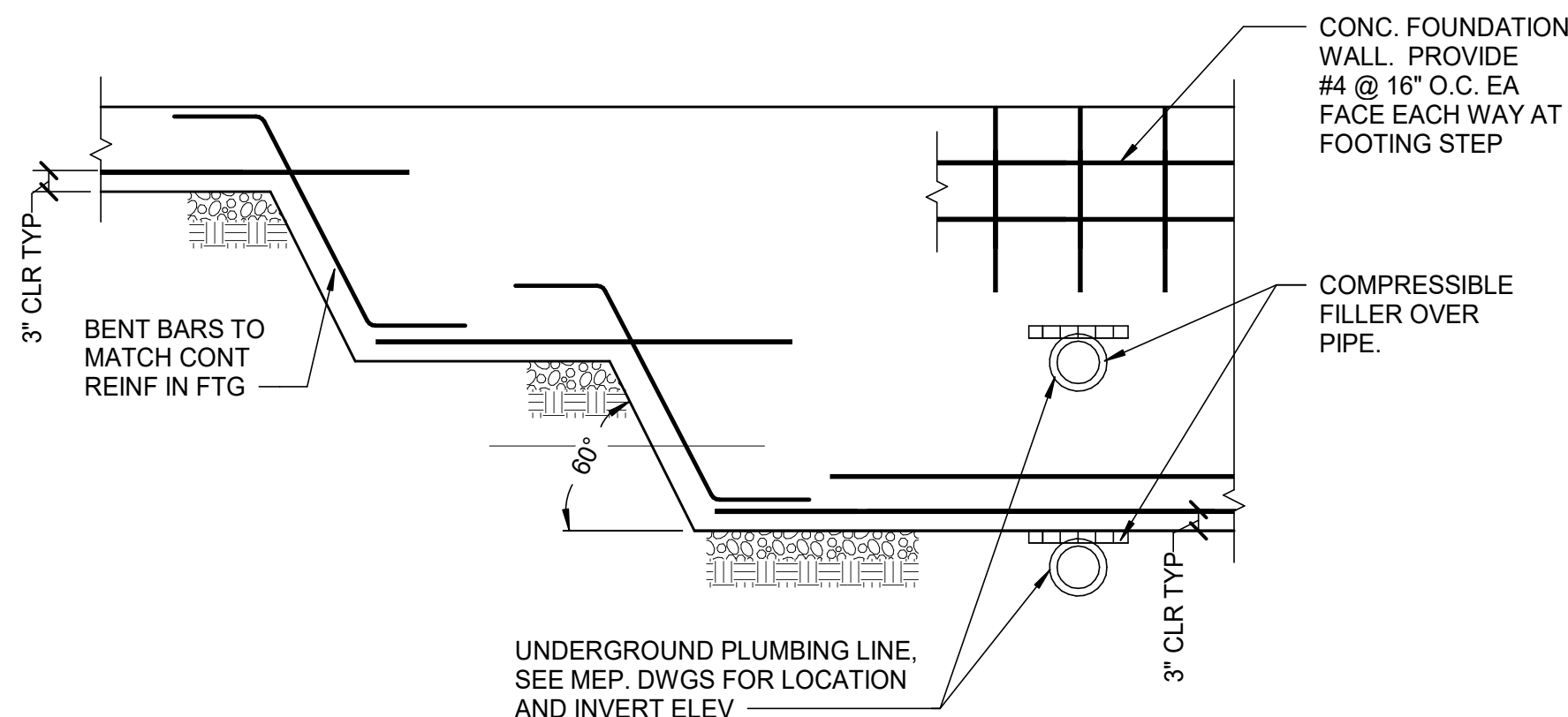
4  
S7.201



TYPICAL OPENING REINFORCEMENT  
@ SLAB ON GRADE BLOCK-OUTS

SECTION  
SCALE: 1/2" = 1'-0"

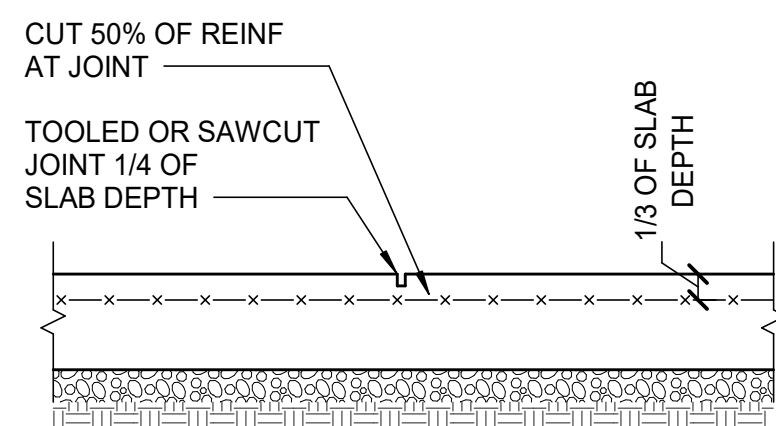
3  
S7.201



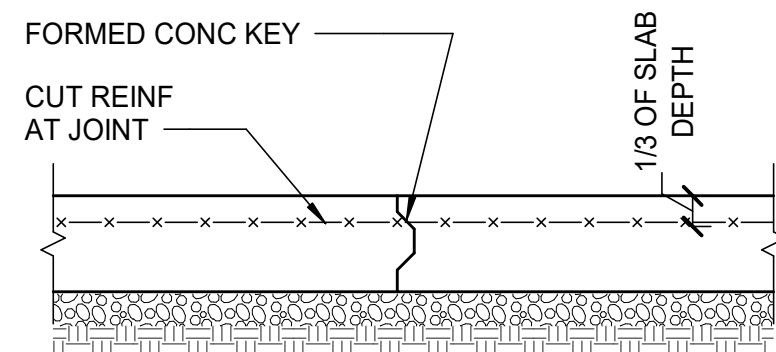
TYPICAL FOOTING STEP (F.S.)

SECTION  
SCALE: 1/2" = 1'-0"

2  
S7.201



TYPICAL SLAB CONTROL JOINT



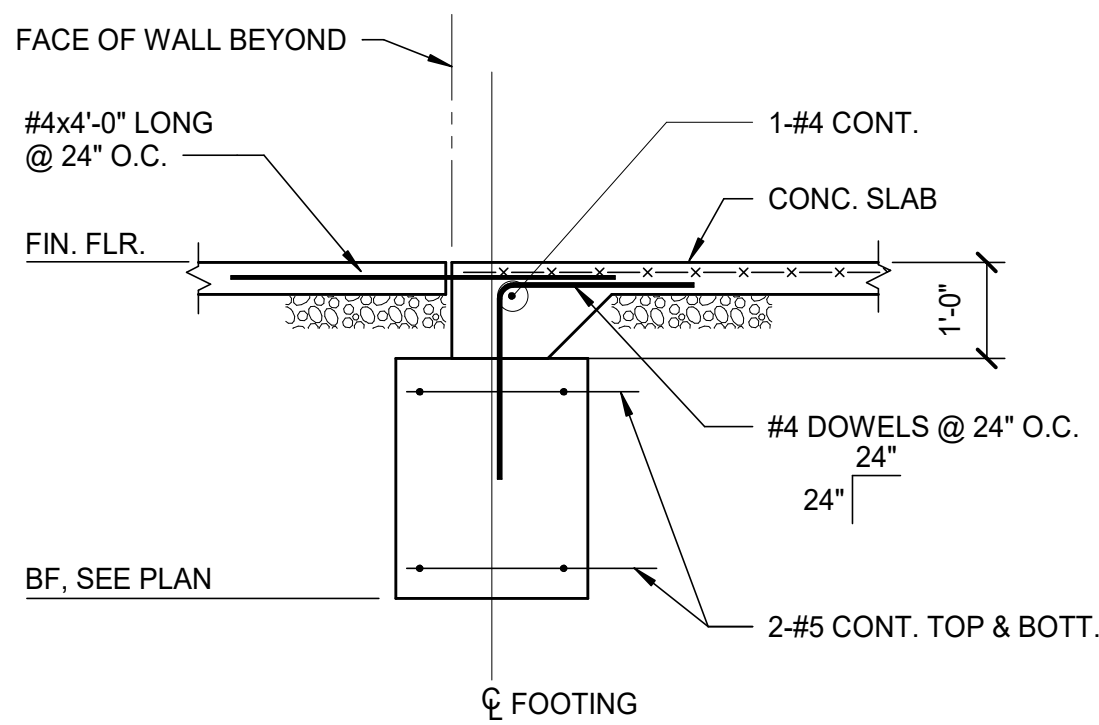
TYPICAL SLAB CONSTRUCTION JOINT

SECTION  
SCALE: 1/2" = 1'-0"

1  
S7.201

FOOTING SCHEDULE			
MARK	SIZE	BOTTOM REINFORCING	REMARKS
F1	3'-0"x3'-0"x12"	3-#4 BOT. E.W.	

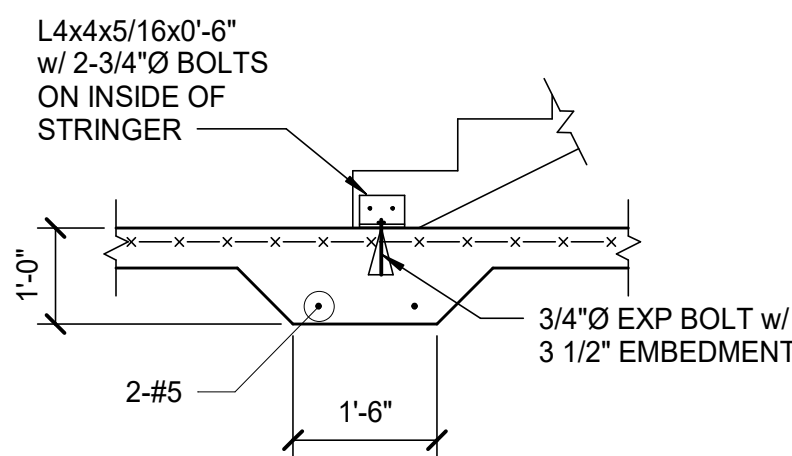
PIER SCHEDULE				
MARK	SIZE	REINFORCING		REMARKS
		VERTICAL	TIES	
P1	8x16/12x16	2-#4 VERT		CMU GROUT SOLID



TYPICAL SECTION @ DOOR ENTRY

SECTION  
SCALE: 1/2" = 1'-0"

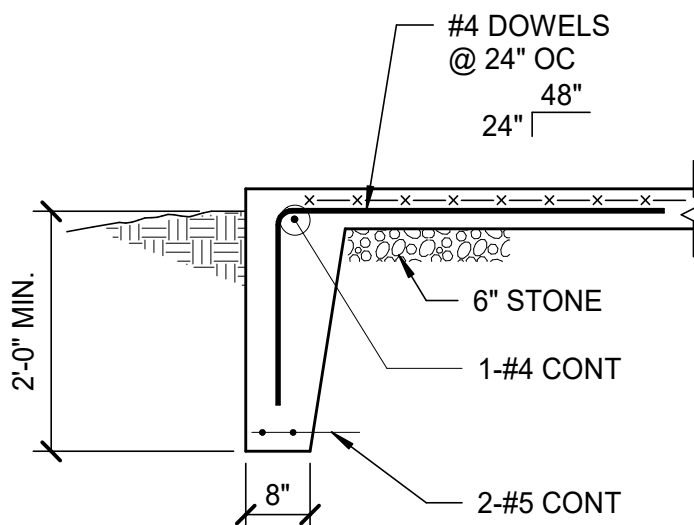
9  
S7.201



THICKENED SLAB @ STRINGER

SECTION  
SCALE: 1/2" = 1'-0"

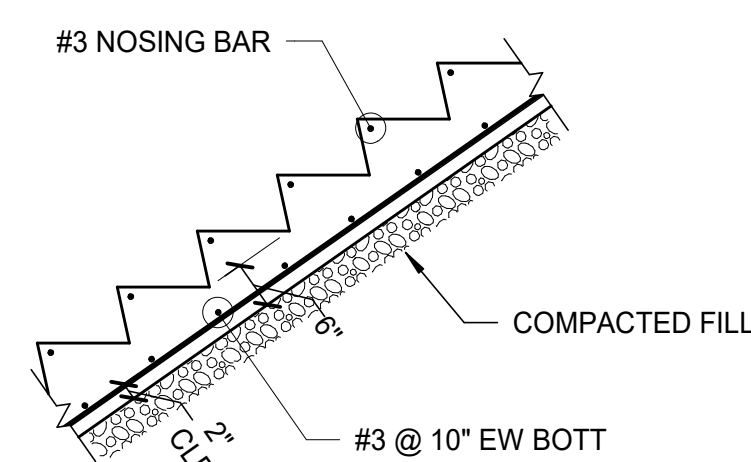
8  
S7.201



TURN DOWN SLAB EDGE

SECTION  
SCALE: 1/2" = 1'-0"

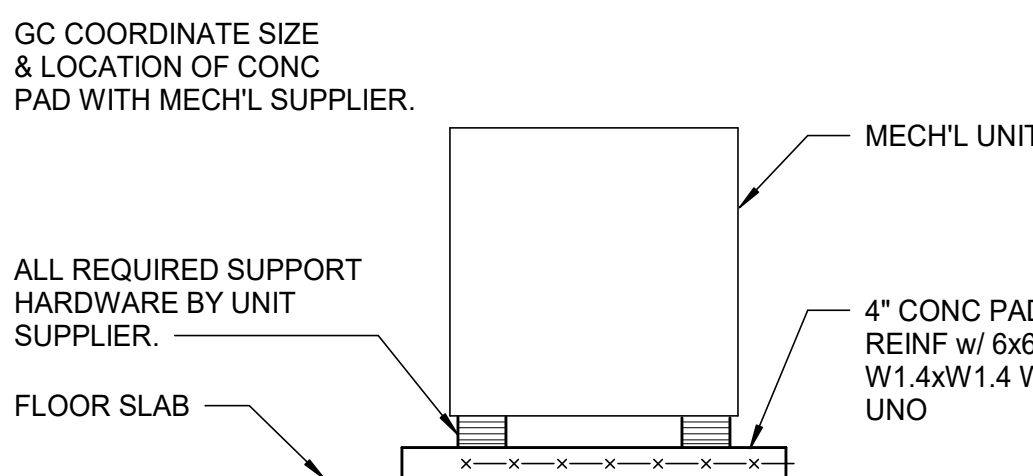
7  
S7.201



TYPICAL CONCRETE STAIRS

SECTION  
SCALE: 1/2" = 1'-0"

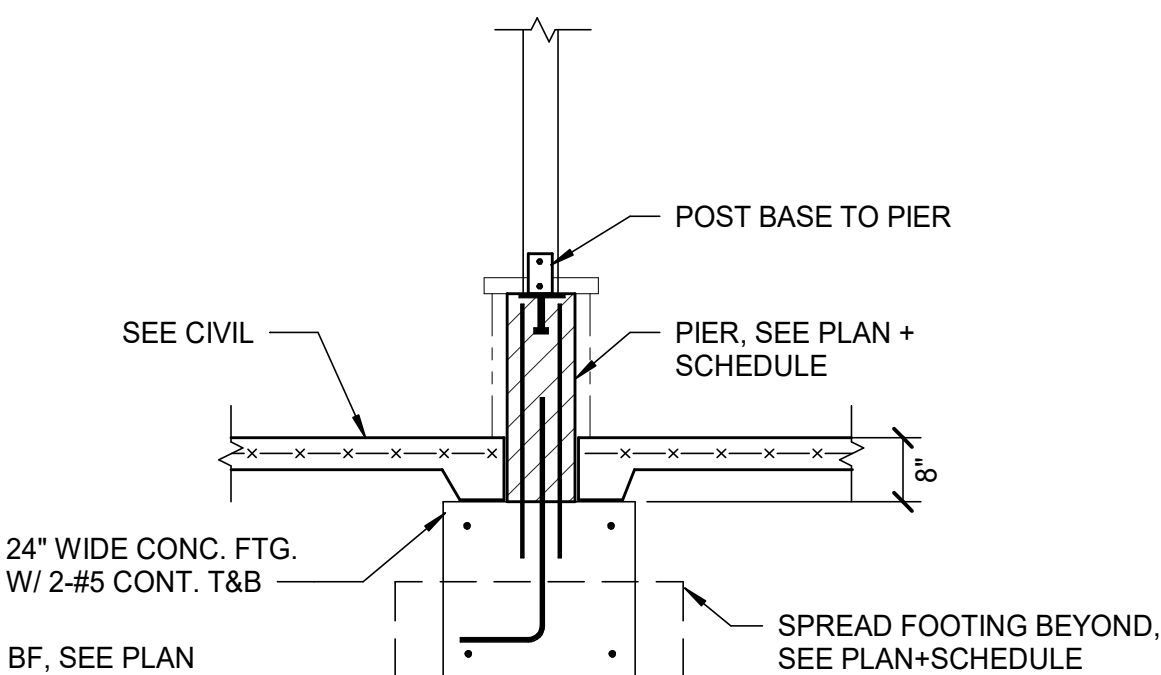
6  
S7.201



TYPICAL HOUSEKEEPING PAD

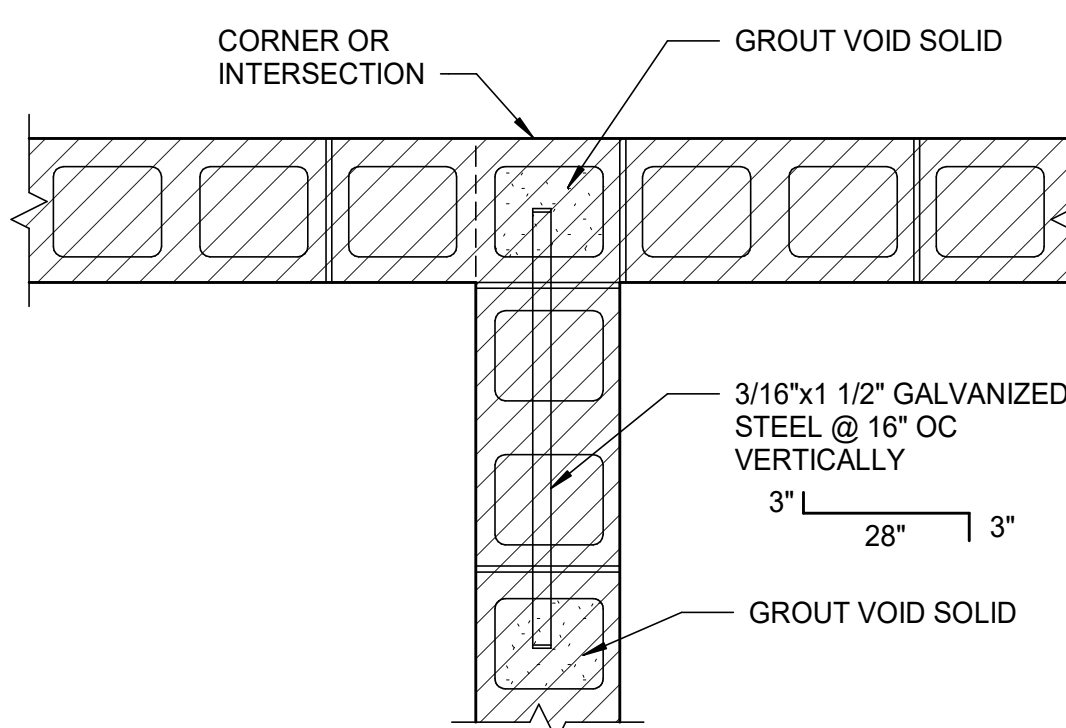
SECTION  
SCALE: 1/2" = 1'-0"

5  
S7.201



SECTION  
SCALE: 1/2" = 1'-0"

14  
S7.201

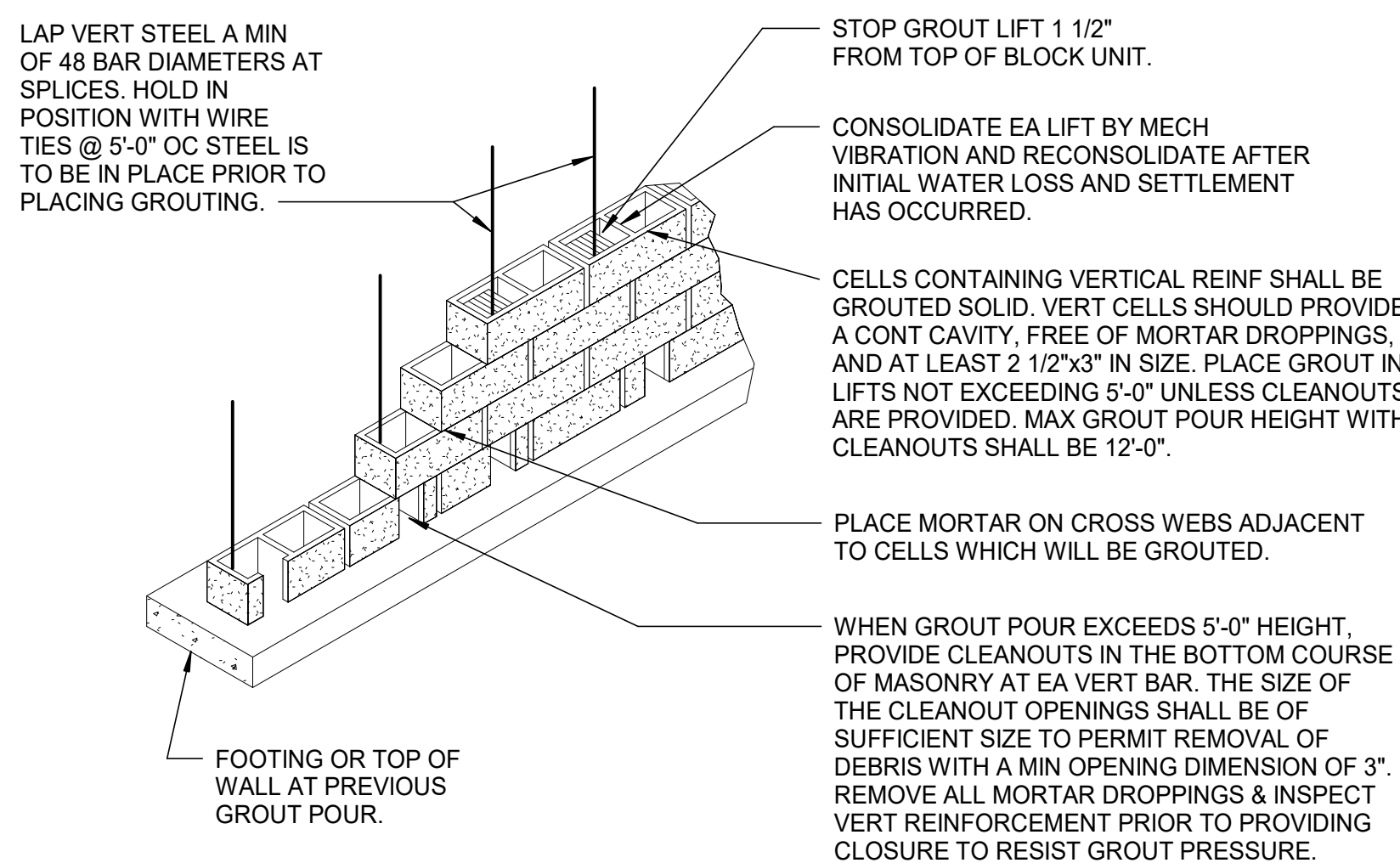


STRAP & GROUT CAN BE OMITTED WHEN EVERY SECOND COURSE IS BUILT INTO ADJACENT WALL

MASONRY CORNER OR INTERSECTION DETAIL

SECTION  
SCALE: 3/4" = 1'-0"

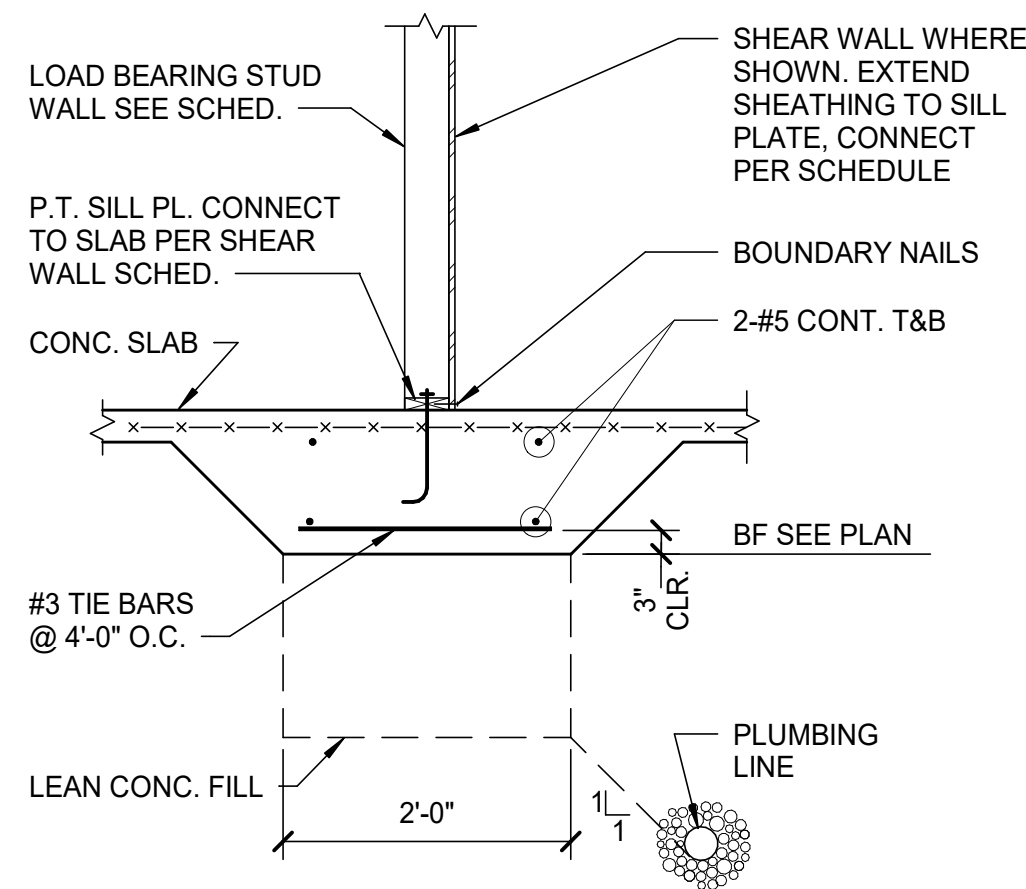
13  
S7.201



TYPICAL REINFORCED MASONRY CONSTRUCTION

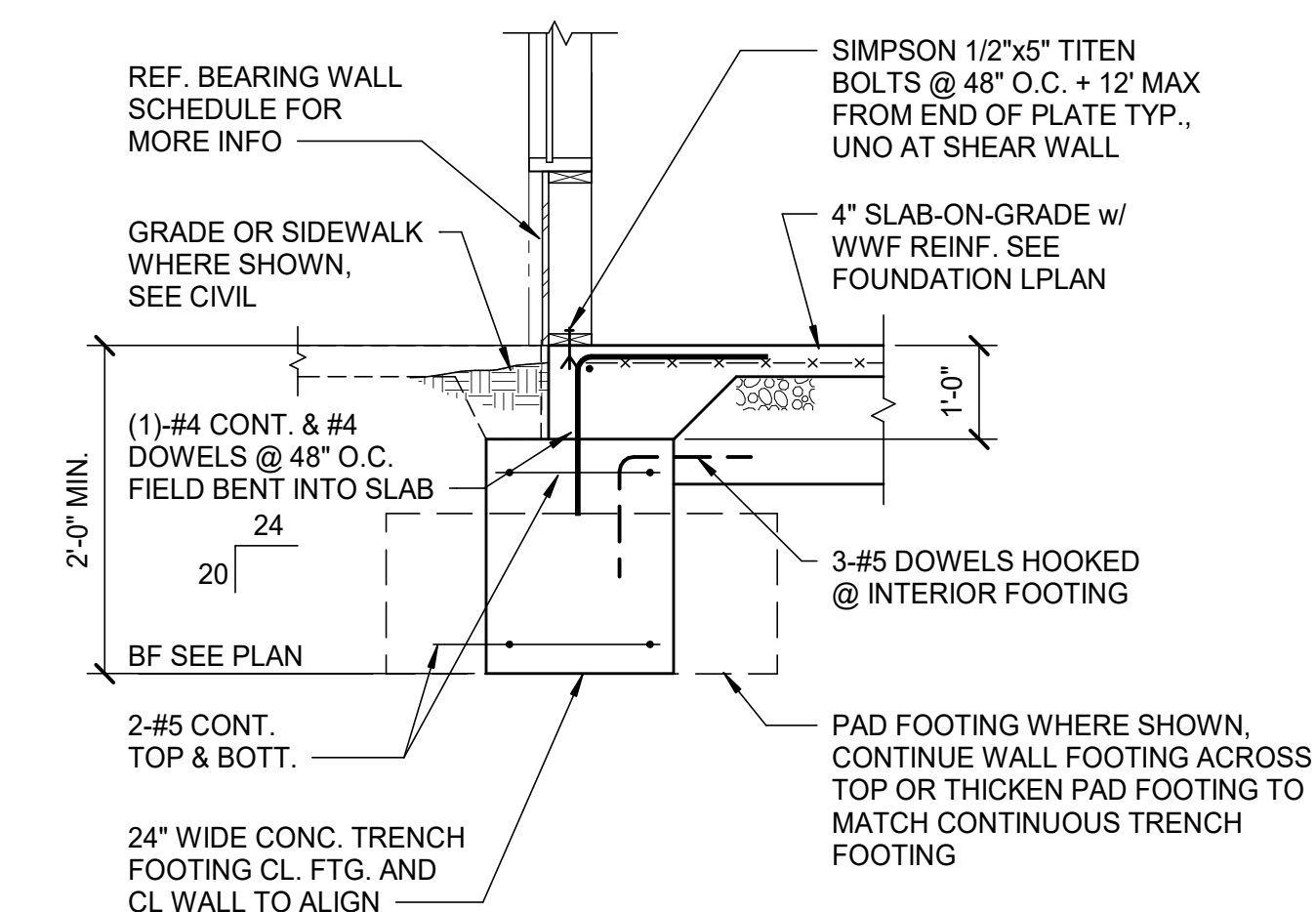
SECTION  
SCALE: 3/4" = 1'-0"

12  
S7.201



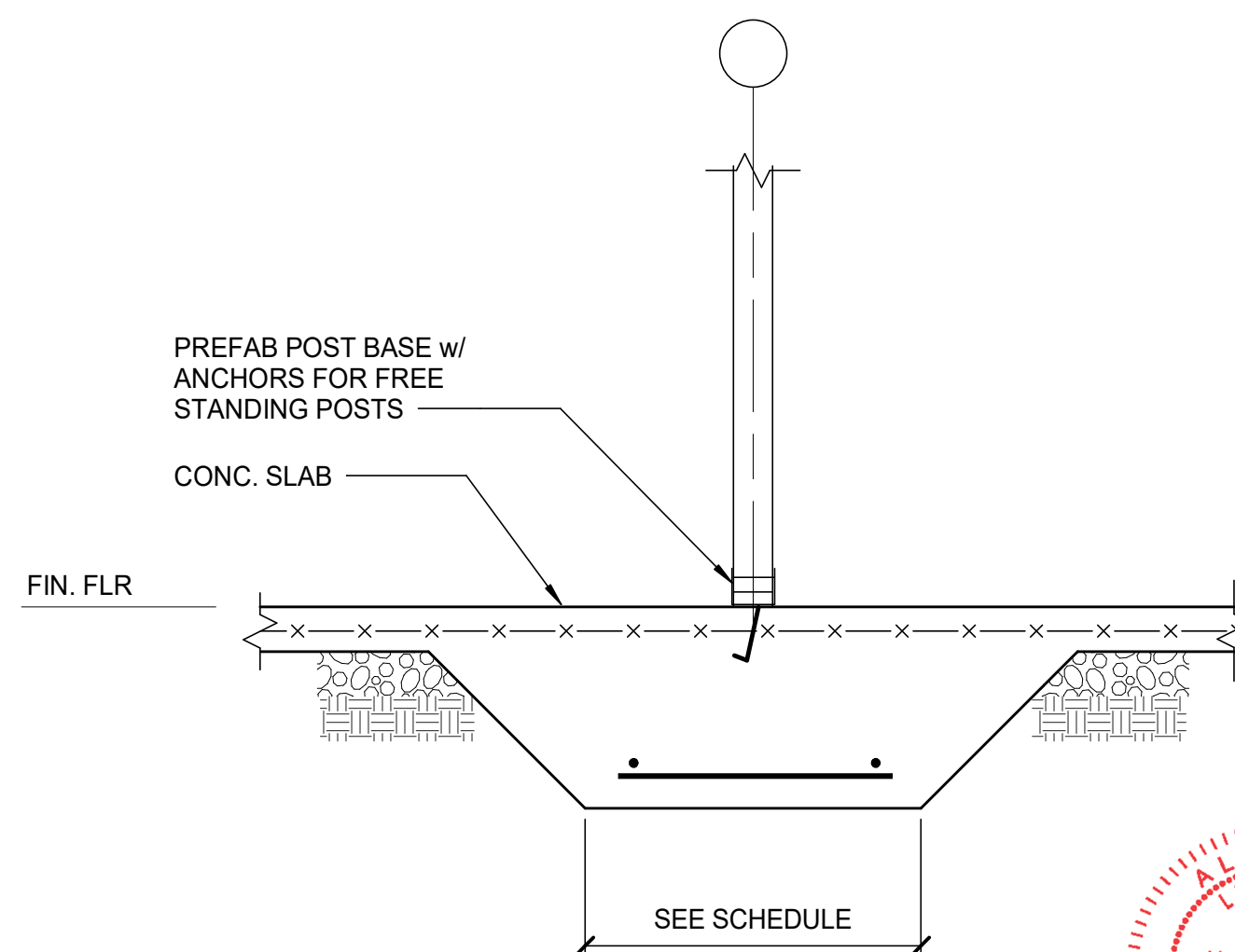
SECTION  
SCALE: 1/2" = 1'-0"

11  
S7.201



SECTION  
SCALE: 1/2" = 1'-0"

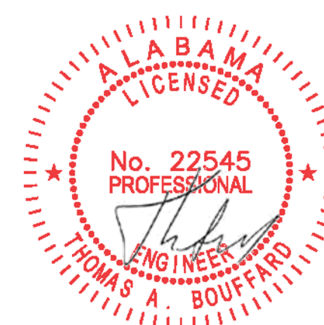
10  
S7.201



INTERIOR WOOD COLUMN FOOTING

SECTION  
SCALE: 3/4" = 1'-0"

15  
S7.201



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S7.201  
FOUNDATION SECTIONS  
3 NORTH  
©2020

www.3north.com  
804 232 8900

REVISIONS

PERMIT SET

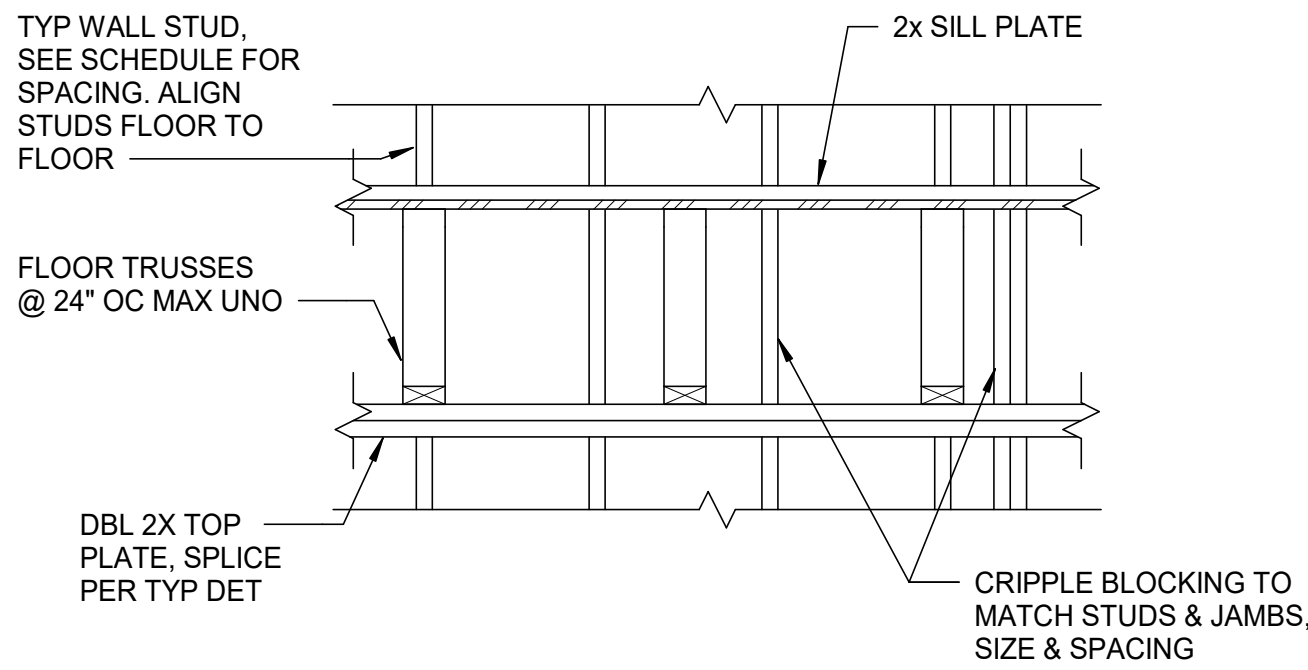
06/11/2021

PERMIT

06/11/2021

12/15/20





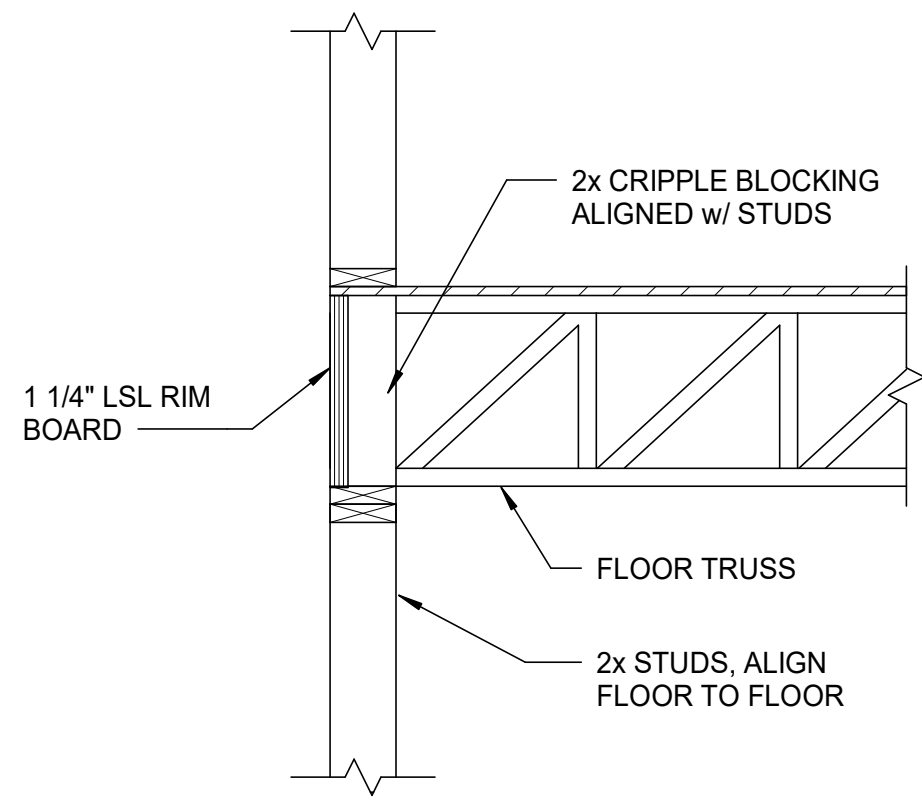
TYPICAL WALL CRIPPLE BLOCKING  
AT BEARING WALLS

SECTION

SCALE: 3/4" = 1'-0"

4

S7.301



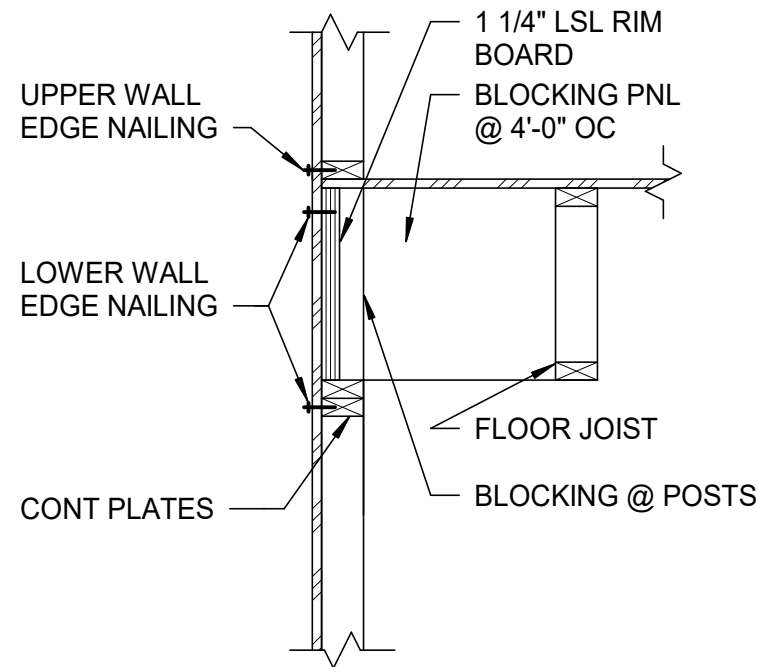
TYPICAL INTERIOR BEARING WALL

SECTION

SCALE: 3/4" = 1'-0"

3

S7.301



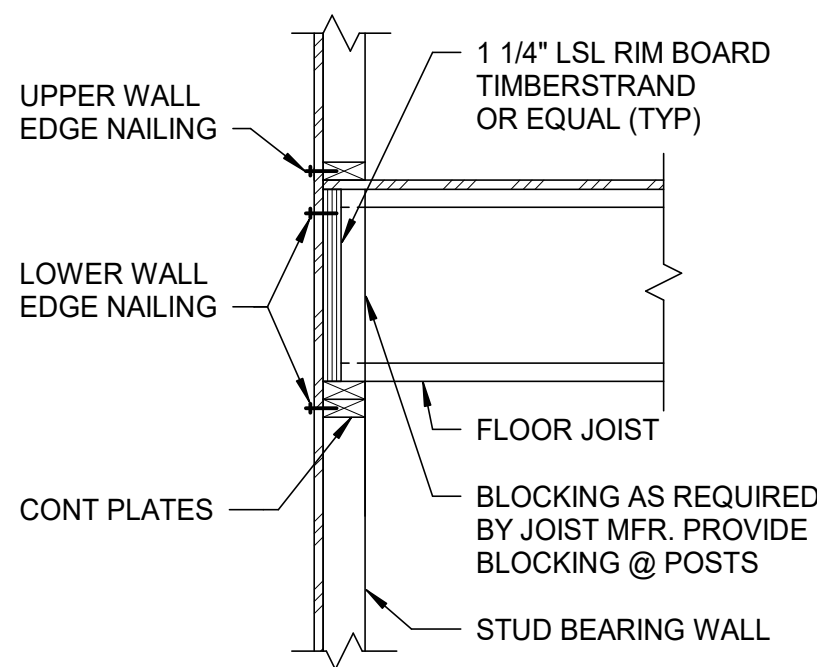
WALL PARALLEL TO JOIST

SECTION

SCALE: 3/4" = 1'-0"

2

S7.301



TYPICAL EXTERIOR BRG. WALL

SECTION

SCALE: 3/4" = 1'-0"

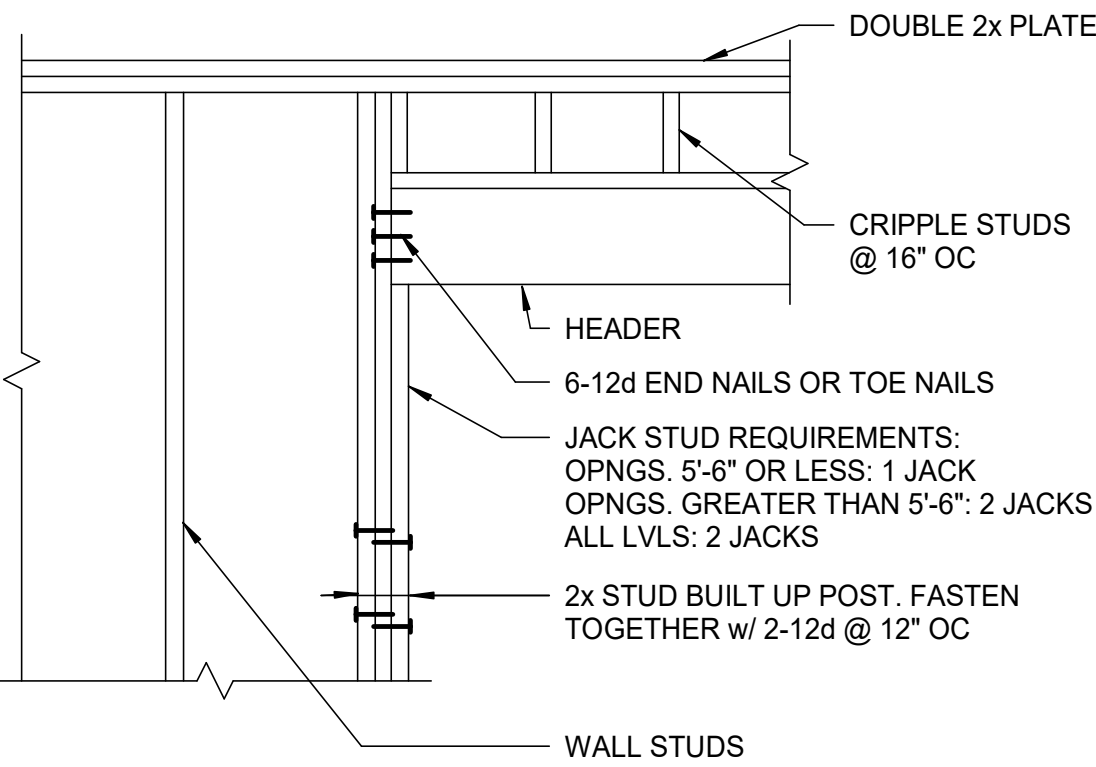
1

S7.301

HEADER SCHEDULE	
1	2-2x6
2	3-2x6
3	2-2x8
4	3-2x8
5	2-2x10
6	3-2x10
7	2-2x12
8	3-2x12
9	2-1 3/4"x9 1/2" LVL
10	2-1 3/4"x11 7/8" LVL
11	2-1 3/4"x14" LVL
12	2-1 3/4"x16" LVL
13	2-1 3/4"x18" LVL
14	3-1 3/4"x9 1/2" LVL
15	3-1 3/4"x11 7/8" LVL
16	3-1 3/4"x14" LVL
17	3-1 3/4"x16" LVL

COLUMN SCHEDULE	
C-1	2-2x4
C-2	2-2x6
C-3	3-2x4
C-4	3-2x6
C-5	4-2x4
C-6	4-2x6
C-7	5-2x4
C-8	5-2x6
C-9	4x4 POST
C-10	4x6 POST
C-11	5 1/4x7 1.8E PSL POST
C-12	7 1/4x7 1/4 1.8E PSL POST

NOTE:  
PROVIDE DOUBLE STUD @ END OF EACH HEADER UNLESS NOTED OTHERWISE



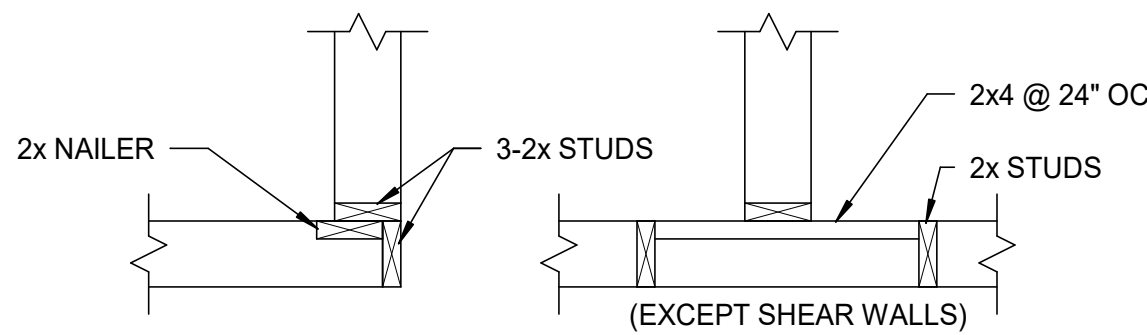
TYPICAL DROPPED HEADER AT OPENING

SECTION

SCALE: 3/4" = 1'-0"

7

S7.301



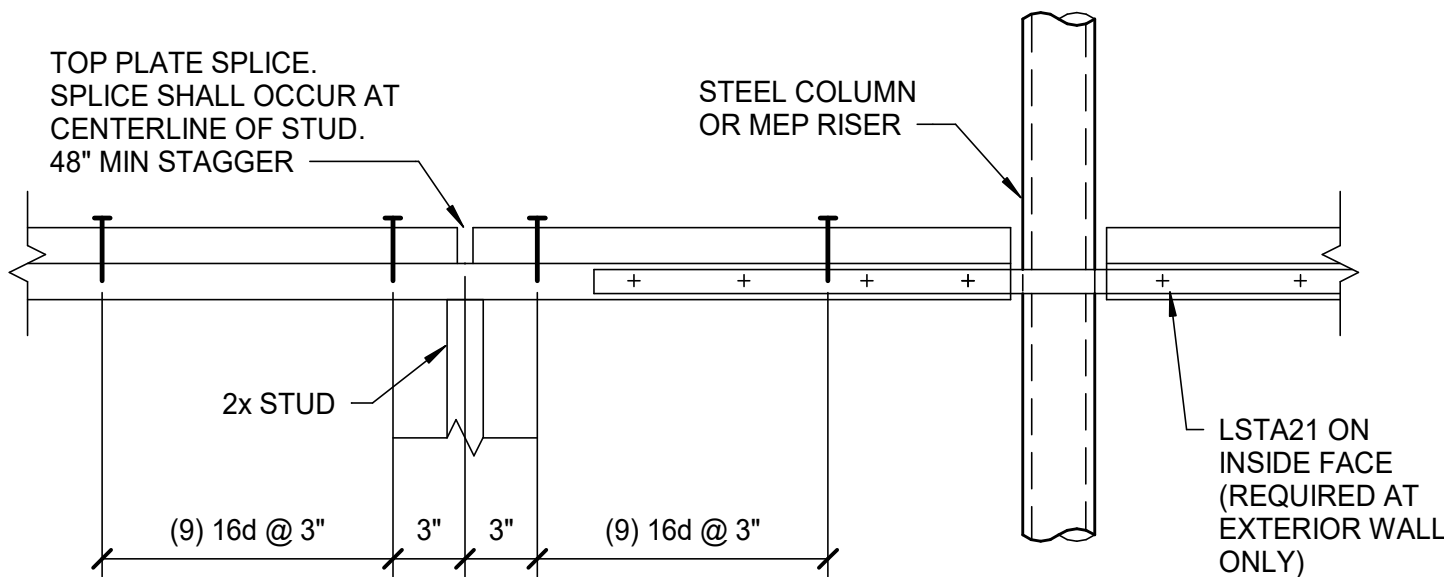
TYPICAL WALL CORNER AND INTERSECTION  
(INTERIOR AND EXTERIOR - TYPE V)

SECTION

SCALE: 3/4" = 1'-0"

6

S7.301



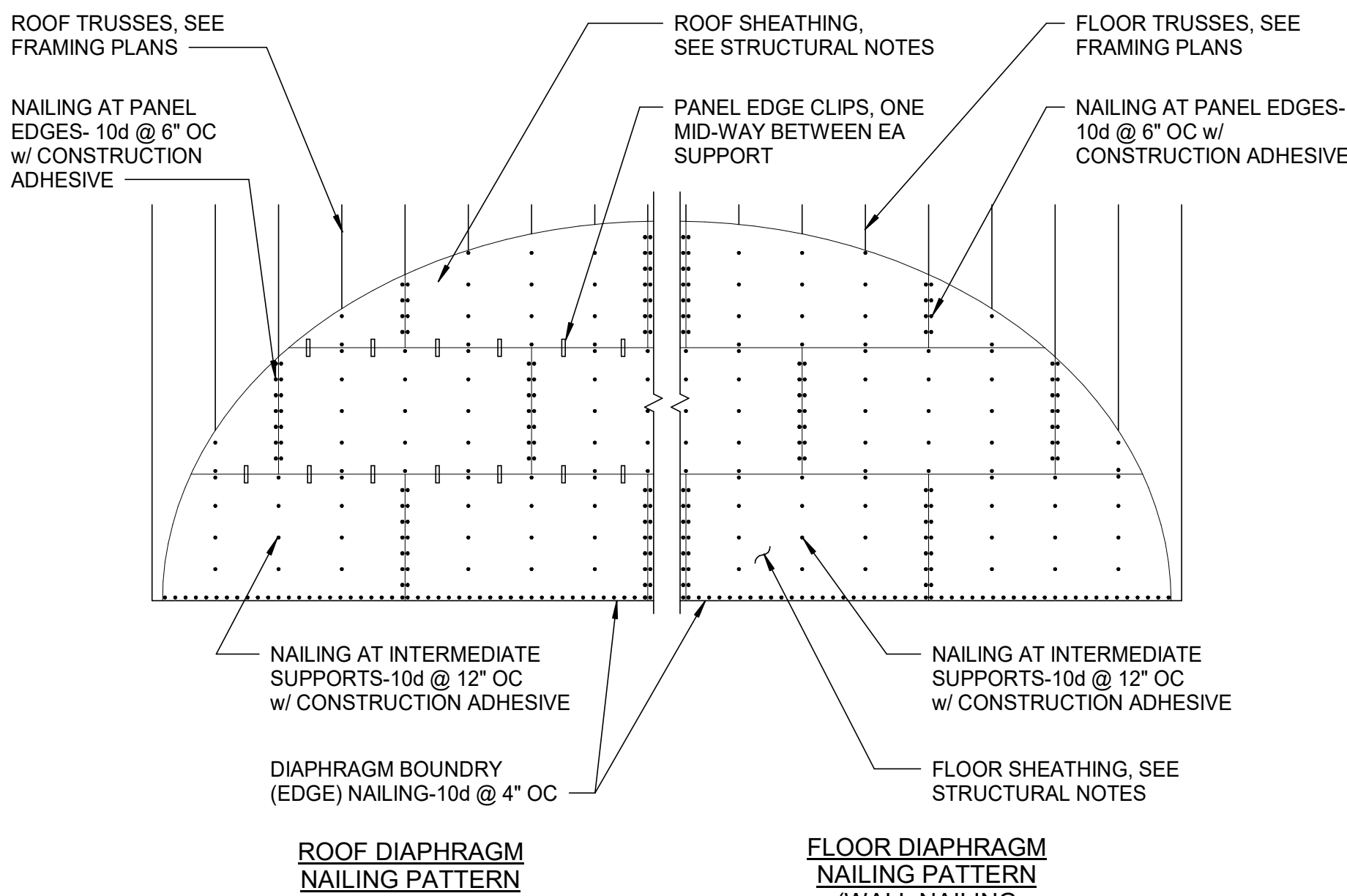
TYPICAL TOP PLATE SPLICE AT ALL WALLS AND  
PLATE INTERRUPTION STRAP AT EXTERIOR WALL

SECTION

SCALE: 1 1/2" = 1'-0"

5

S7.301



SECTION

SCALE: T.S.

12

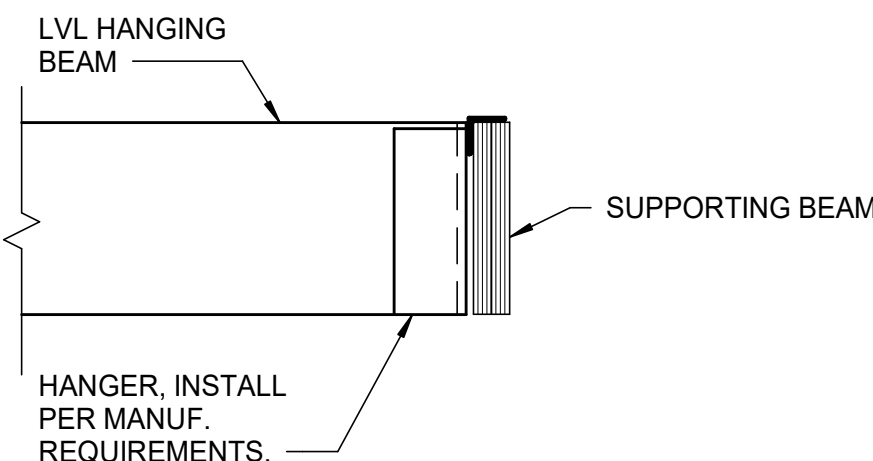
S7.301

HANGING BEAM SIZE	MAX. LOAD (LB)	REQUIRED * HANGER
2-12"	7,900	SIMPSON HGLT 3.511
2-14"	9,310	SIMPSON HGLT 3.514
2-16"	10,600	SIMPSON HGLT 3.516
2-18"	10,950	SIMPSON HGLT 3.518

\* OR EQUAL

HANGING BEAM SIZE	MAX. LOAD (LB)	REQUIRED * HANGER
3-12"	11,850	SIMPSON HGLT 5.511
3-14"	12,750	SIMPSON HGLT 5.514
3-16"	12,750	SIMPSON HGLT 5.516
3-18"	12,750	SIMPSON HGLT 5.518

\* OR EQUAL



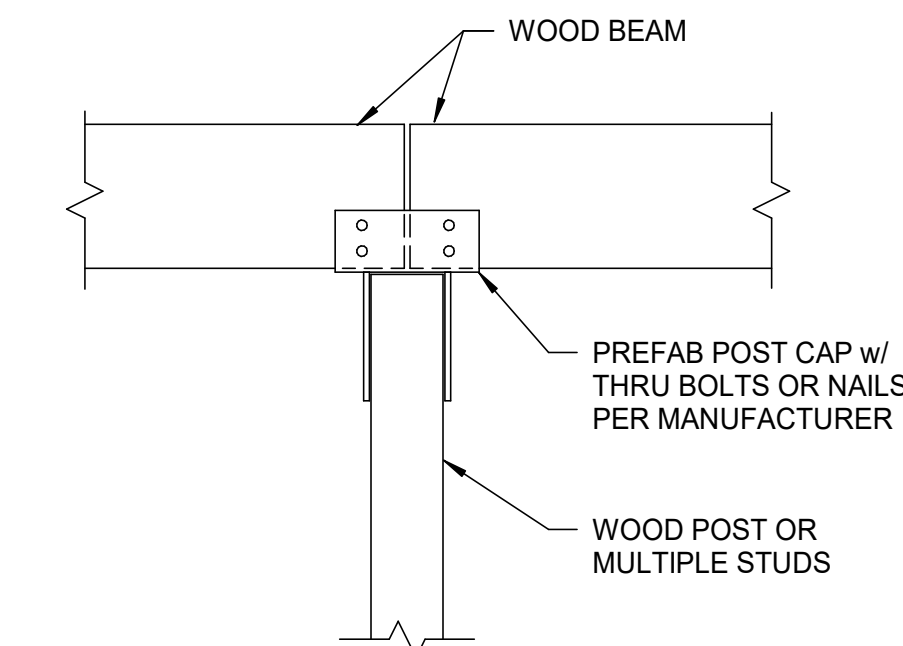
TYPICAL LVL BEAM TO BEAM CONNECTION

SECTION

SCALE: T.S.

11

S7.301



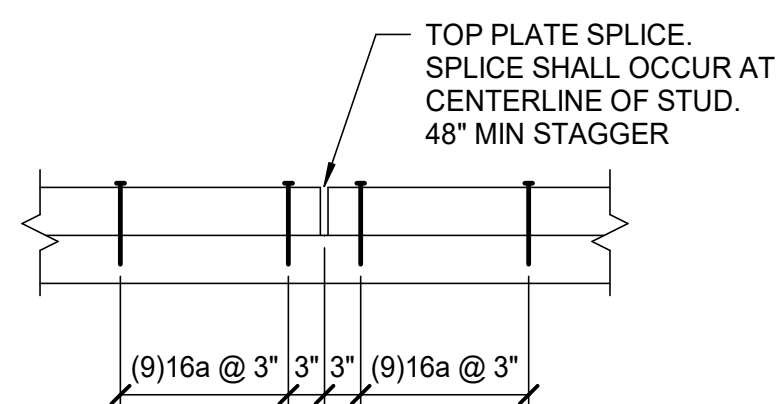
TYPICAL WOOD BEAM TO WOOD POST CONNECTION

SECTION

SCALE: T.S.

10

S7.301



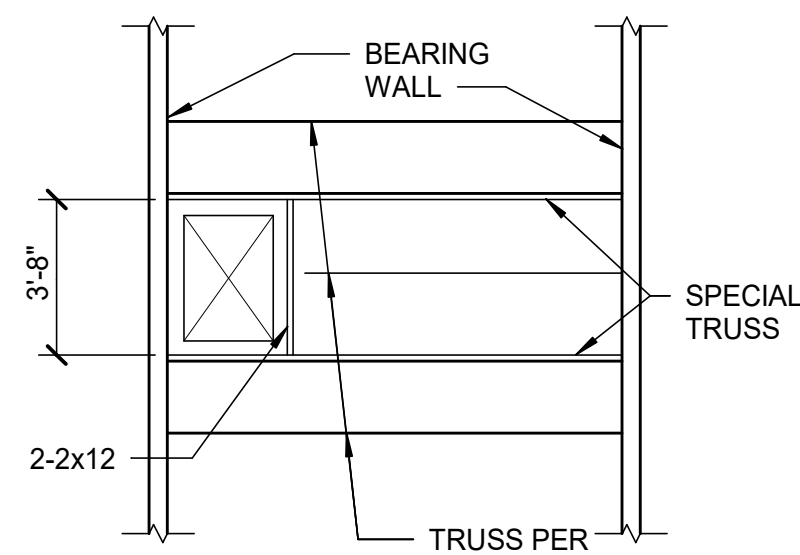
TYPICAL TOP PLATE SPLICE

SECTION

SCALE: T.S.

9

S7.301



NOTE: DETAIL APPLIES FOR SMALL OPENINGS UP TO 3'-8" WIDE

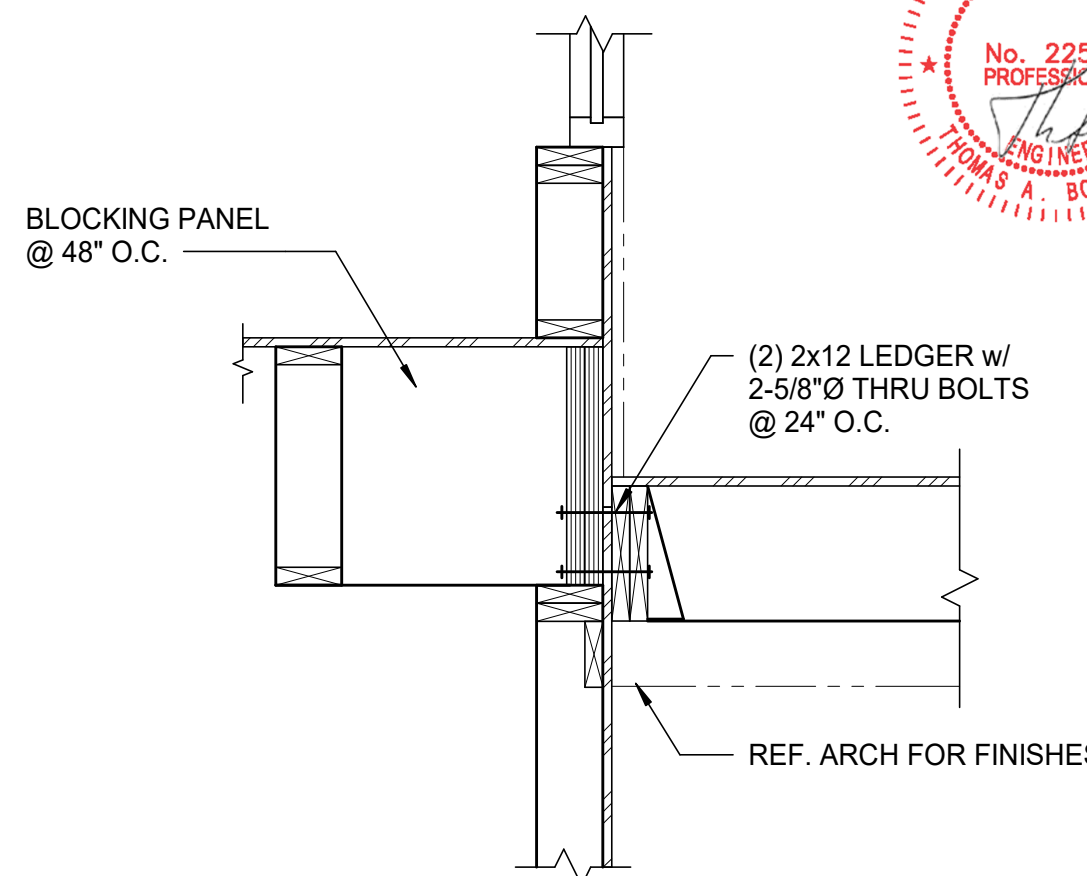
TYPICAL SHAFT FRAMING AT TRUSS FLOOR

SECTION

SCALE: T.S.

8

S7.301



SECTION

SCALE: T.S.

13

S7.301

TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S7.301  
WOOD FRAMING  
SCHEDULES & TYP DETAILS  
12/15/20

3  
NORTH  
©2020

www.3north.com  
804 232 8900

REVISIONS

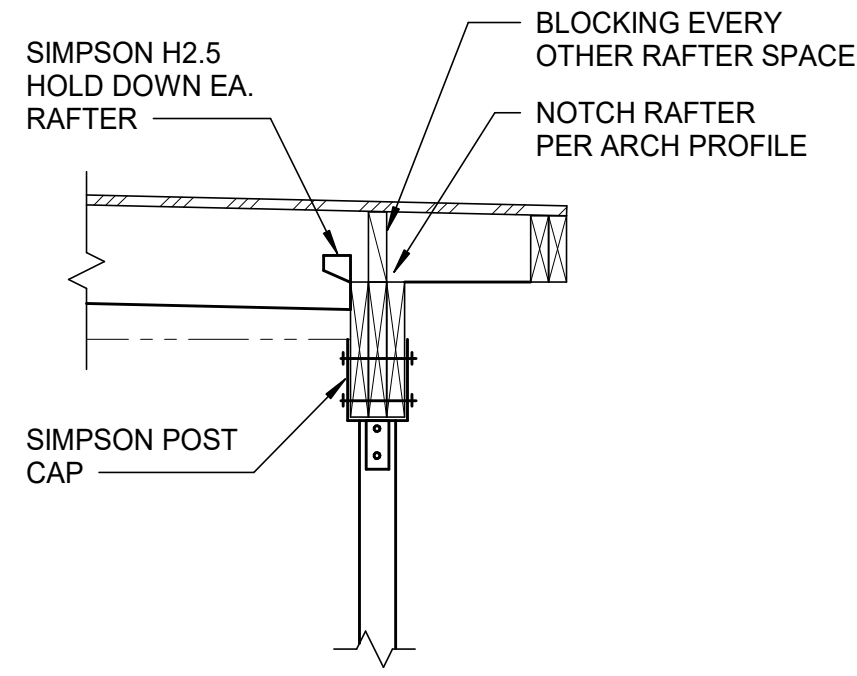
PERMIT

PERMIT SET

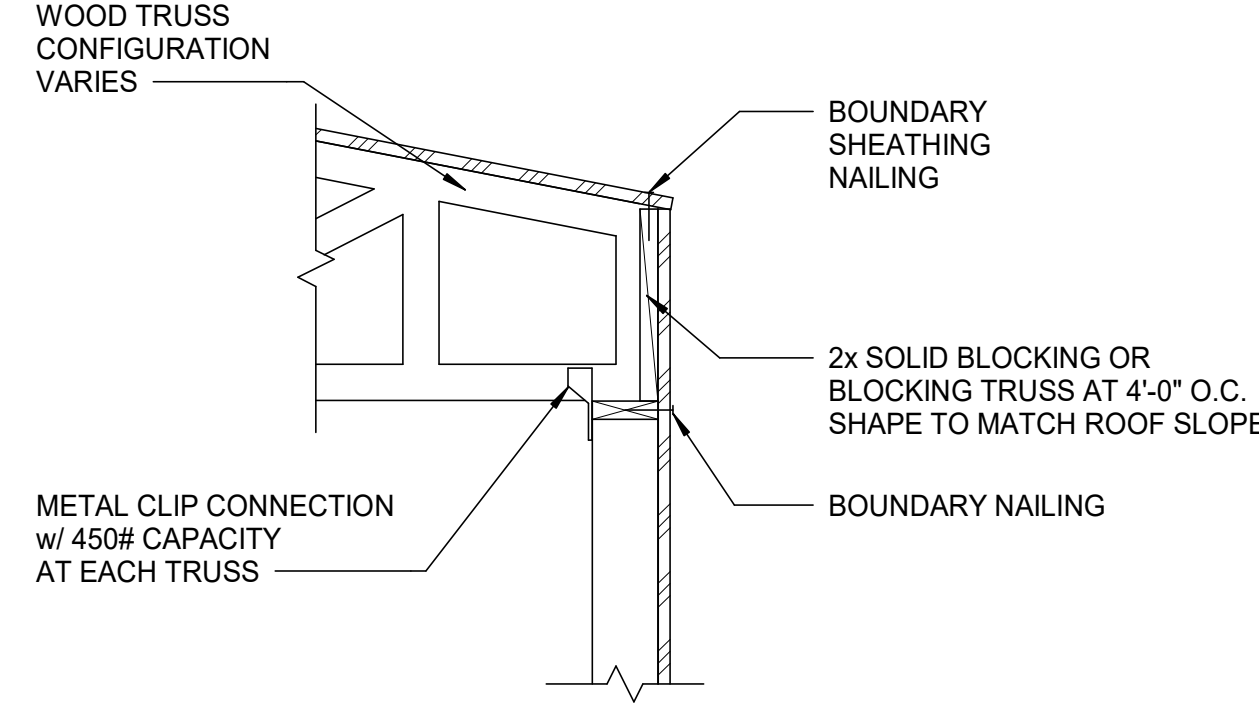
06/11/2021

06/11/2021

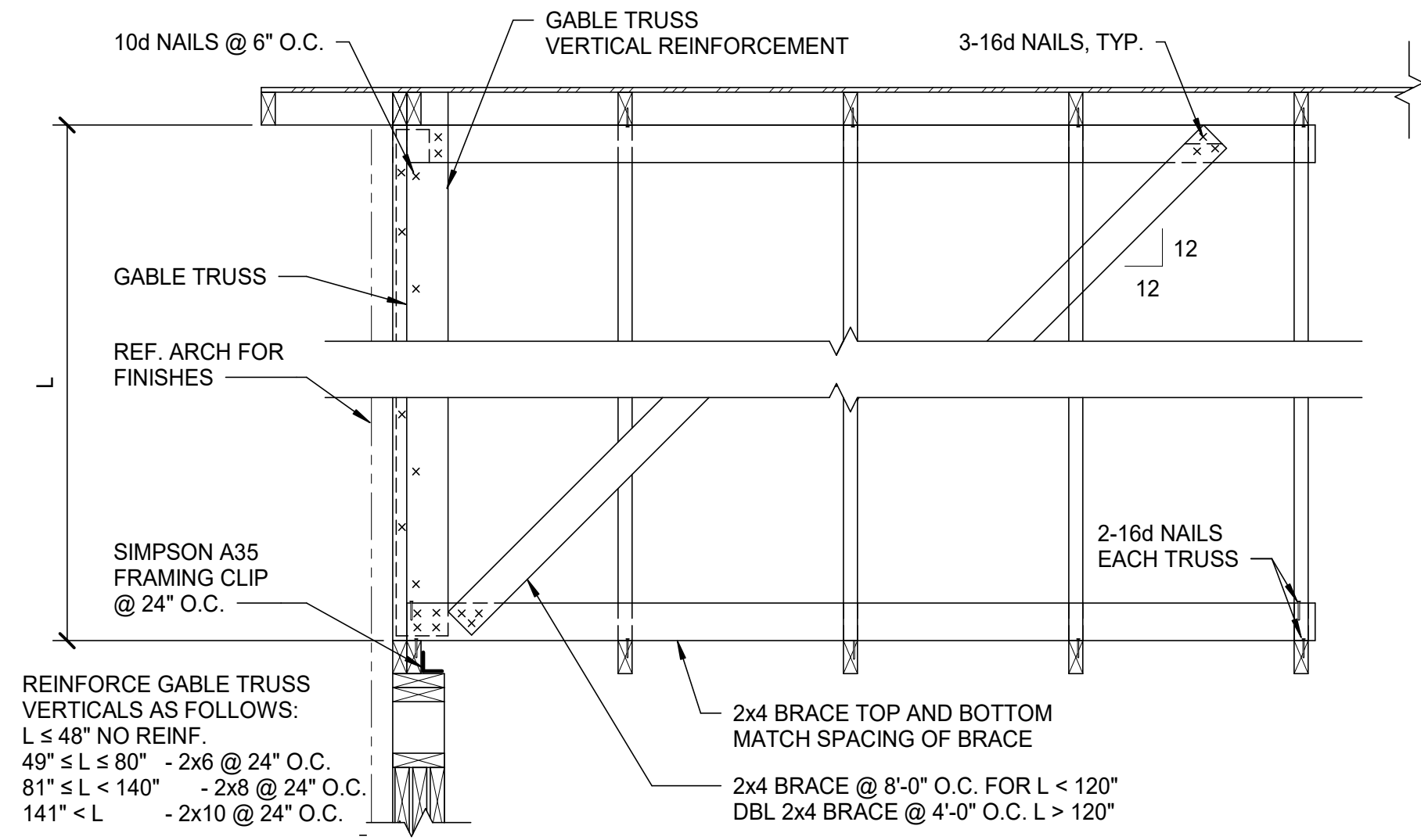




SECTION 4  
SCALE: 3/4" = 1'-0"

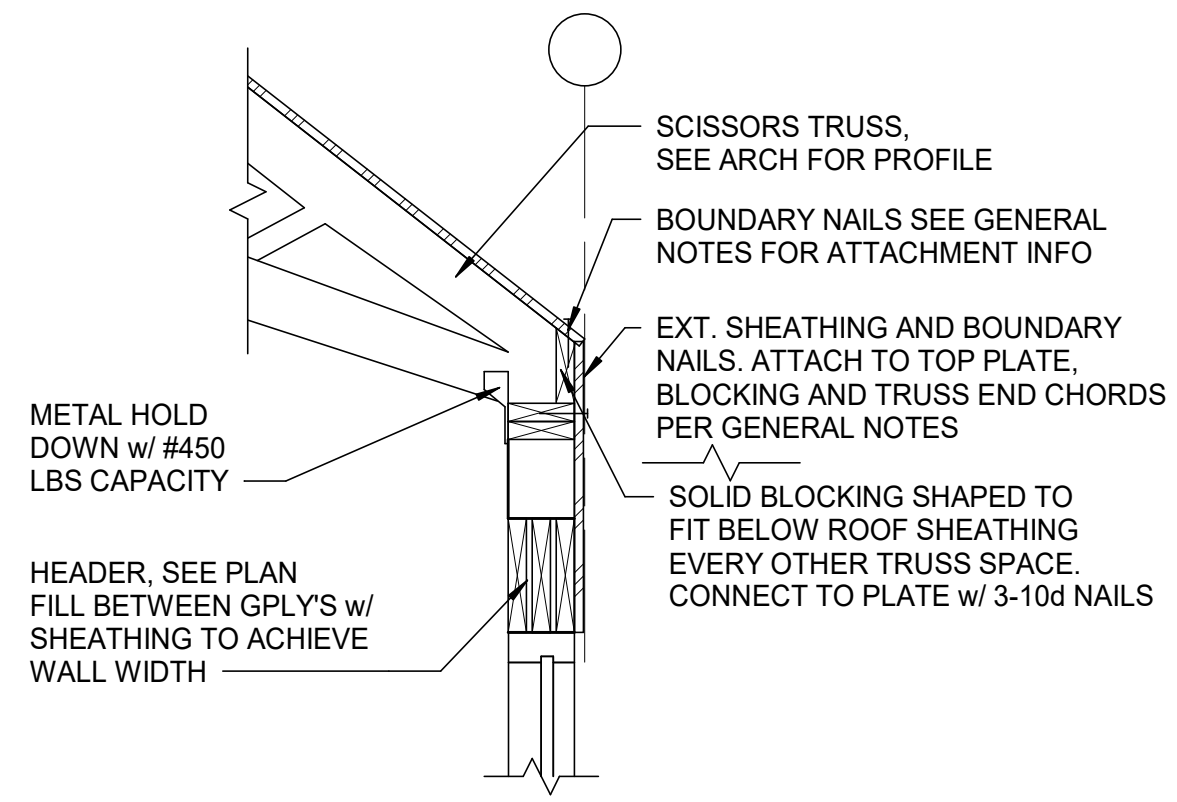


SECTION 3  
SCALE: 3/4" = 1'-0"

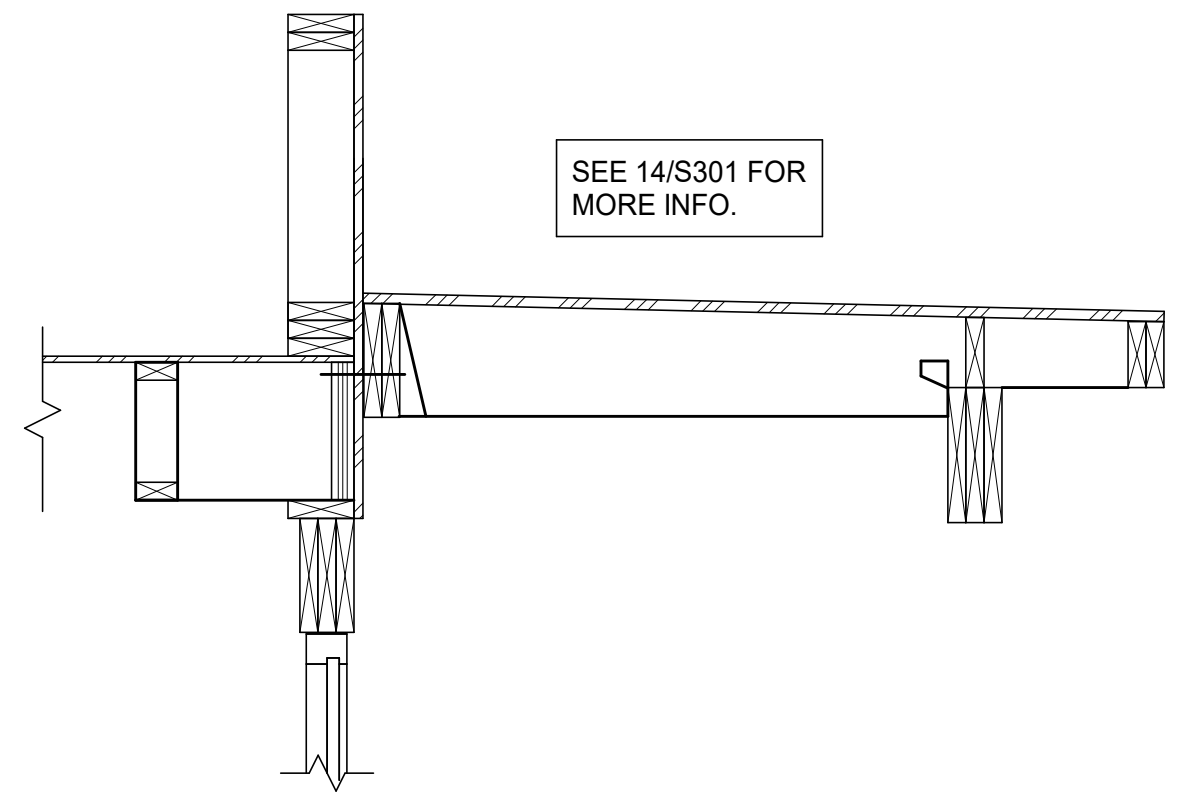


TYPICAL GABLE TRUSS REINFORCEMENT

SECTION 2  
SCALE: 3/4" = 1'-0"



SECTION 1  
SCALE: 3/4" = 1'-0"

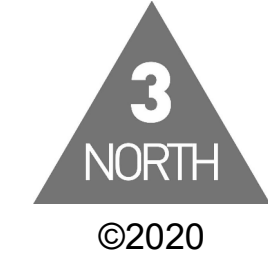


SECTION 5  
SCALE: 3/4" = 1'-0"



TERRACES AT HIGH MOUNTAIN  
4130 HIGH MOUNTAIN ROAD NE  
HUNTSVILLE, AL 35811

S7.401  
WOOD FRAMING SECTIONS



www.3north.com  
804 232 8900

REVISIONS  
06/11/2021  
PERMIT

PERMIT SET

06/11/2021

12/15/20