

GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS

ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED, SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN **BOTH** ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD (2)	PARTITION LOAD	CONCENTRATED LOADS
ROOF	15 PSF	25 PSF (1)		300#
WOOD TRUSSES	15 PSF	25 PSF (1)		
MEZZANINE	15 PSF	60 PSF (3)		

- (1) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.10.  
(2) LIVE LOAD REDUCTION NOT PERMITTED EXCEPT AS NOTED IN IBC SECTION 1607.10.

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF)

LATERAL FORCES

LATERAL FORCES ARE TRANSMITTED BY DIAPHRAGM ACTION OF ROOF AND FLOORS TO BRACED FRAME/ SHEAR WALLS. LOADS ARE THEN TRANSFERRED TO FOUNDATION BY BRACED FRAME/ SHEAR WALL ACTION WHERE ULTIMATE DISPLACEMENT IS RESISTED BY PASSIVE PRESSURE OF EARTH AND/OR SLIDING FRICTION. OVERTURNING IS RESISTED BY DEAD LOAD OF THE STRUCTURE.

WIND:

THE BUILDING MEETS THE CRITERIA TO USE THE "METHOD 2 - SIMPLIFIED ENVELOPE PROCEDURE" PER ASCE 7-10.

- EXPOSURE CATEGORY = B
- BASIC WIND SPEED, (3 SEC. GUST), V<sub>ULT</sub> = 110 MPH
- RISK CATEGORY PER TABLE 1.5-1 = II
- TOPOGRAPHIC FACTOR K<sub>zT</sub> = 1.0
- INTERNAL PRESSURE COEFFICIENT (ENCLOSED) = ± 0.18
- COMPONENTS AND CLADDING LOADS, SEE THE FOLLOWING TABLES:

ROOF SURFACES <sup>1</sup>						
EFFECTIVE WIND AREA	POSITIVE PRESSURES (PSF)			NEGATIVE PRESSURES (PSF)		
	ZONE <sup>2</sup>					
	1	2	3	1	2	3
10 SF	19.9	19.9	19.9	-21.8	-25.5	-25.5
20 SF	19.4	19.4	19.4	-20.7	-24.3	-24.3
50 SF	18.6	18.6	18.6	-19.2	-22.9	-22.9
100 SF	18.1	18.1	18.1	-18.1	-21.8	-21.8

WALL SURFACES AND ROOF OVERHANGS <sup>1</sup>						
EFFECTIVE WIND AREA	POSITIVE PRESSURE (PSF)		NEGATIVE PRESSURE (PSF)		ROOF OVERHANGS (PSF)	
	ZONE <sup>2</sup>					
	4	5	4	5	2	3
10 SF	21.8	21.8	-23.6	-29.1	-36.9	-36.9
20 SF	20.8	20.8	-22.6	-27.2	-35.8	-35.8
50 SF	19.5	19.5	-21.3	-24.6	-34.3	-34.3
100 SF	18.5	18.5	-20.4	-22.6	-33.2	-33.2
500 SF	16.2	16.2	-18.1	-18.1	-	-

1. VALUES SHOWN IN TABLE ARE GROSS ULTIMATE WIND PRESSURES.  
2. ZONES ARE AS DEFINED BY FIGURE 30.5-1 IN ASCE 7-10.

SEISMIC: (ASCE 7-10) V = C<sub>s</sub>W

WHERE C<sub>s</sub> =  $\frac{S_{Ds}}{(\frac{R}{I_e})}$ ; WITH

C<sub>s</sub> MINIMUM = 0.044 S<sub>Ds</sub>I<sub>e</sub> ≥ 0.01

OR

C<sub>s</sub> MINIMUM =  $\frac{0.5S_1}{R}$  FOR S<sub>1</sub> > 0.6g

$\frac{S_{D1}}{I_e}$

C<sub>s</sub> MAXIMUM =  $T(\frac{R}{I_e})$  FOR T ≤ T<sub>L</sub>

OR

C<sub>s</sub> MAXIMUM =  $\frac{S_{D1}T_L}{T^2}(\frac{R}{I_e})$  FOR T > T<sub>L</sub>

SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> = 1.0

RISK CATEGORY OF BUILDING PER TABLE 1.5-1 = II

SPECTRAL RESPONSE ACCELERATIONS S<sub>s</sub> = 1.24 & S<sub>1</sub> = 0.474

SITE CLASS PER TABLE 20.3-1 = E

DESIGN SPECTRAL RESPONSE ACCELERATIONS S<sub>Ds</sub> = 0.744 & S<sub>D1</sub> = 0.758

SEISMIC DESIGN CATEGORY = D

W = EFFECTIVE SEISMIC WEIGHT OF BUILDING = 195 K

ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE

RESPONSE MODIFICATION FACTOR PER TABLE 12.2-1, R = 6.5

C<sub>s</sub> = 0.144

DESIGN BASE SHEAR V = 28.1 K

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE. CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

FOUNDATION DESIGN CRITERIA (GEOTECHNICAL ENGINEERING SERVICES REPORT, ST. ANDREW CATHOLIC CHURCH & PARISH HALL BY GEO ENGINEERS DATED JUNE 25TH, 2019).

SOIL BEARING PRESSURE: 1500 PSF

PASSIVE RESISTANCE: 200 PCF (INCLUDES F.O.S. ≥ 1.5)

COEFFICIENT OF FRICTION: 0.4 (INCLUDES F.O.S. ≥ 1.5)

\*1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR "STRUCTURAL BACKFILL". NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED WITH LEAN CONCRETE (F'<sub>c</sub>= 2000 PSI) OR "STRUCTURAL BACKFILL". AREAS DESIGNATED "STRUCTURAL BACKFILL" SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. MAXIMUM SIZE OF ROCK 6". FROZEN SOIL, ORGANIC MATERIAL AND DELETERIOUS MATTER NOT ALLOWED. COMPACT TO AT LEAST 95% OF ITS MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS.

CONCRETE

CAST-IN-PLACE CONCRETE

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2" INCHES.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE II PORTLAND CEMENT, UNLESS NOTED OTHERWISE.

FLYASH: SHALL CONFORM TO ASTM C618 CLASS C OR F, MAXIMUM LOSS OF IGNITION SHALL BE 1.0%.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318, CHAPTER 19. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +2.0% AND -1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED AMOUNT.

TOTAL CEMENTITIOUS MATERIAL: THE SUM OF ALL CEMENT PLUS FLYASH AND SLAG. AT THE CONTRACTORS OPTION FLYASH OR SLAG MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. IN NO CASE SHALL THE AMOUNT OF FLYASH OR SLAG BE LESS THAN REQUIRED BY THE CONCRETE MIX DESIGN TABLE. FOOTING MIXES SHALL CONTAIN NOT LESS THAN **5 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, ALL OTHER MIXES SHALL CONTAIN NOT LESS THAN **5-1/2 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, UNLESS NOTED OTHERWISE.

ITEM	DESIGN F' <sub>c</sub> (PSI) (AT 28 DAYS U.N.O.)	MAX. W/C RATIO	MIN. FLYASH OR SLAG (PCY)	AGGREGATE GRADING ASTM AASHTO	NOTES
SLABS ON GRADE - UNO	4000	0.45	100	57 OR 67	1
MAT FOUNDATIONS	5000 @ 56 DAYS	0.50	100	57 OR 67	
STEM WALLS AND OTHER WALLS - UNO	4000	0.50	100	57 OR 67	
ALL OTHER CONCRETE	4000	0.50	--	57 OR 67	

CONCRETE MIX NOTES:

- MAXIMUM WATER CONTENT 240 PCY.
- THIS MIX SHALL CONTAIN 1 GALLON PER CY OF 'ECLIPSE' SHRINKAGE REDUCING ADD MIXTURE BY W.R. GRACE OR APPROVED ALTERNATE. FOR CONCRETE REQUIRING AN AIR ENTRAINMENT ADMIXTURE, 'ECLIPSE PLUS' SHALL BE USED.

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE. THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

FLOATING & FINISHING OPERATIONS

WATER SHALL NOT BE ADDED TO THE CONCRETE SURFACE DURING FLOATING & FINISHING OPERATIONS. PRE-APPROVED EVAPORATION RETARDER SPECIFICALLY DESIGNED FOR FLOATING & FINISHING OPERATIONS ARE ACCEPTABLE.

COLD WEATHER PLACEMENT:

- COLD WEATHER IS DEFINED BY ACI 306 AS "A PERIOD WHEN FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40° F."
- NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
- CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
- THE CONCRETE MAY REQUIRE PROTECTION FOR 4-7 DAYS AFTER POURING. IF TEMPERATURES REMAIN BELOW FREEZING, INSULATING BLANKET COVERAGE IS REQUIRED. IF TEMPERATURES ARE SLIGHTLY BELOW FREEZING (30° F MIN.) AT NIGHT AND ABOVE FREEZING DURING THE DAY, KRAFT PAPER WITH COMPLETE COVERAGE MAY BE USED IN LIEU OF INSULATED BLANKETS.
- NO ADDITIVES CONTAINING CHLORIDES SHALL BE USED. USE "POZZUTEC 20+" BY MASTER BUILDERS OR "POLARSET" BY W.R. GRACE OR PRE-APPROVED EQUAL.

CONDITION OF PLACEMENT AND CURING		WALLS & SLABS	FOOTINGS
MIN. TEMP. FRESH CONCRETE AS MIXED FOR WEATHER INDICATED, DEGREES F.	ABOVE 30° F.	60°	55°
	0° TO 30° F.	65°	60°
	BELOW 0° F.	70°	65°
MIN. TEMP. FRESH CONCRETE AS PLACED AND MAINTAINED, DEGREES F.		55°	50°
MAX. ALLOWABLE GRADUAL DROP IN TEMP. THROUGHOUT FIRST 24 HOURS AFTER END OF PROTECTION, DEGREES F.		50°	40°

STRUCTURAL DRAWING INDEX	
SHEET NUMBER	SHEET DESCRIPTION
S001	GENERAL NOTES
S002	GENERAL NOTES
S003	GENERAL NOTES
S004	GENERAL NOTES
S101	FOUNDATION PLAN
S102	ROOF FRAMING PLAN
S201	FOUNDATION DETAILS
S301	FRAMING DETAILS
S302	FRAMING DETAILS
S303	FRAMING DETAILS
S304	FRAMING DETAILS
Grand total: 11	

RMCARCHITECTS



Archdiocese of Seattle  
St. Andrew Catholic Church Parish Hall  
1401 Valley Avenue East  
Sumner, WA 98390-2720

Job No: 1851 Date: 2/7/2020  
File No: 19-232  
Drawn By: MF  
Checked By: DRS  
Issued For: PERMIT

GENERAL NOTES

S001

HOT OR WINDY WEATHER PLACEMENT

HOT WEATHER IS DEFINED BY ACI 305 AS "ANY COMBINATION OF HIGH AIR TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY, TENDING TO IMPAIR THE QUALITY OF FRESH HARDENED CONCRETE. ACI 305 FIGURE 2.1.5 SHALL BE USED BY THE CONTRACTOR TO ESTIMATE THE RATE OF EVAPORATION. WHEN THE ESTIMATED RATE OF EVAPORATION IS GREATER THAN 0.2 PSF/HOUR THE PLACEMENT SHALL BE CONSIDERED A HOT WEATHER PLACEMENT. PRECAUTIONS AGAINST PLASTIC SHRINKAGE CRACKING ARE NECESSARY. PRECAUTIONS TAKEN BY THE CONTRACTOR VARY DEPENDING UPON THE FACTORS ASSOCIATED WITH WATER EVAPORATION AND INCLUDE BUT ARE NOT LIMITED TO:

- 1. LIMITING CONCRETE TEMPERATURE TO 100°F AT TIME OF PLACEMENT.
- 2. APPLICATION OF AN EVAPORATION RETARDER.
- 3. USE OF FOG SPRAY.
- 4. REDUCTION OF POUR SIZE.

- 5. PLACING CONCRETE AT NIGHT.

CONTROL AND CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF ACI 301 SECTIONS 2.2.2.5 AND 5.3.2.6. SPECIAL BONDING METHODS PER SECTION 5.3.2.6 SHALL BE SATISFIED BY ITEM 4 BELOW UNLESS OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN ON PLAN OR ADDITIONAL CONSTRUCTION JOINTS ARE REQUIRED SUBMIT PROPOSED JOINTING FOR STRUCTURAL ENGINEERS APPROVAL. PROVIDE CONSTRUCTION JOINTS AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE PLANS:

- 1. SLABS ON GRADE: PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AT 16 FEET O.C. MAXIMUM FOR UNEXPOSED SLABS ON GRADE AND 12 FEET O.C. FOR EXPOSED SLABS ON GRADE. COORDINATE JOINTS WITH ARCHITECTURAL DRAWINGS.

EMBEDDED ITEMS

- 1. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE.

CONCRETE CURING AND SEALING

CURING PROCEDURES SHALL COMMENCE IMMEDIATELY AFTER FINISHING CONCRETE TO MAINTAIN CONCRETE IN A MOIST CONDITION. VERIFY CURING AND/OR SEALING PRODUCTS ARE COMPATIBLE WITH FLOOR COVERINGS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. SLABS ARE DEFINED AS SLABS ON GRADE, CONCRETE ON METAL DECK, ELEVATED POST-TENSIONED OR MILD REINFORCED DECKS, AND TOPPING SLABS.

ITEM	CONCRETE CURING NOTES
SLABS	1, (2 OR 3 OR 4)
ALL OTHER CONCRETE	NONE

CONCRETE CURING NOTES:

- 1. WHEN THE ESTIMATED EVAPORATION RATE IS GREATER THAN 0.2 PSF/HOUR PROVIDE A SPRAY APPLIED EVAPORATION RETARDER IMMEDIATELY AFTER CONCRETE PLACEMENT. THE EVAPORATION RATE MAY BE CALCULATED PER ACI 305 FIGURE 2.1.5.
- 2. PROVIDE PRE-APPROVED CONTINUOUS WET CURE METHOD FOR A MINIMUM OF 14 DAYS.
- 3. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS OR ASTM C1315 TYPE 1 CLASS A SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER FINAL FINISHING. CURING COMPOUND SHALL BE COMPATIBLE WITH ARCHITECTURAL FLOOR COVERINGS AND SEALERS.
- 4. PROVIDE 'ULTRACURE MAX' MOISTURE RETAINING COVER BY MCTECH GROUP, OR APPROVED EQUAL, FOR A MINIMUM OF 14 DAYS.

GROUT

NON-SHRINK GROUT: MASTER BUILDERS "MASTERFLOW 928" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 WHEN TESTED AT A FLUID CONSISTENCY PER CRD-C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION, INSTALLATION, AND CURING.

REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO:

ASTM A615, GRADE 60 TYPICAL UNLESS NOTED OTHERWISE.

DETAIL FABRICATE AND PLACE PER ACI 315 AND ACI 318.

REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE, Fy=60 KSI (UNLESS NOTED OTHERWISE)					
BAR SIZE	MINIMUM LAP SPLICE LENGTHS ("Ls")		MINIMUM DEVELOPMENT LENGTHS ("Ld")		MINIMUM EMBEDMENT LENGTH FOR STANDARD END HOOKS ("Ldh")
	TOP BARS (1)	OTHER BARS	TOP BARS (1)	OTHER BARS	
#3	2'-0"	1'-6"	1'-6"	1'-3"	0'-7"
#4	2'-8"	2'-0"	2'-0"	1'-7"	0'-9"
#5	3'-4"	2'-7"	2'-7"	2'-0"	1'-0"
#6	4'-0"	3'-1"	3'-1"	2'-4"	1'-2"
#7	5'-10"	4'-6"	4'-6"	3'-6"	1'-5"
#8	6'-8"	5'-2"	5'-2"	3'-11"	1'-7"

SPLICE TABLE NOTES:

- 1. "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

REINFORCING STEEL COVER

PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH ----- 3"  
EXPOSED TO WEATHER OR EARTH ----- 2"  
TIES ON BEAMS AND COLUMNS ----- 1-1/2"  
WALLS AND SLABS NOT EXPOSED TO WEATHER---- 3/4"

POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS: SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH REBAR. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. INSTALLER SHALL BE QUALIFIED AND TRAINED BY THE MANUFACTURER. HOLES SHALL BE HAMMER DRILLED ONLY (ROTARY DRILLED ONLY AT UNREINFORCED MASONRY - NO HAMMER TOOLS).

CONCRETE ANCHORS:

- ADHESIVE ANCHORS: HILTI HIT-HY 200 (ICC-ESR-3187)
  - \*CONCRETE SHALL BE A MINIMUM OF 21 DAYS OLD AT TIME OF INSTALLATION.
  - \*CONCRETE SHALL BE IN THE TEMPERATURE RANGE AS REQUIRED BY THE CONCRETE MANUFACTURER.
  - \*HOLE SHALL BY HAMMER-DRILLED ONLY.
  - \*HOLE SHALL BE DRY AT TIME OF INSTALLATION.
  - \*INSTALLER OF HORIZONTAL OR UPWARDLY INCLINED (ANY POSITION EXCEPT DIRECTLY DOWNWARD) ANCHORS SHALL ALSO BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
- EXPANSION ANCHORS: KWIKBOLT TZ (ICC ESR-1917) BY HILTI, INC. OR STRONG-BOLT 2 (ICC ESR-3037) BY SIMPSON STRONG TIE, INC.
- SCREW ANCHORS: KWIK HUS-EZ (ICC ESR-3027) BY HILTI, INC. OR TITEN HD (ICC ESR-2713) BY SIMPSON STRONG TIE, INC.

WELDING

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D1.1.

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY WABO/AWS CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

CARPENTRY:

NAILS: CONNECTION DESIGNS ARE BASED ON "COMMON WIRE" NAILS WITH THE FOLLOWING PROPERTIES:

PENNYWEIGHT	DIAMETER (INCHES)	LENGTH (INCHES)	TRACKER** EMBOSSED HEAD / COLOR
8d	0.131	2-1/2	3 / BLUE
10d	0.148	3	4 / WHITE
16d	0.162	3-1/2	6 / ORANGE
20d	0.192	4	-

FOR DIAPHRAGM OR SHEAR WALL NAILING THE FOLLOWING FASTENER TYPES MAY BE USED AT EQUIVALENT SPACING TO THAT SPECIFIED ON PLANS:

FASTENER TYPE	DIAMETER (INCHES)	LENGTH (INCHES)	EQUIVALENT SPACING (INCHES)			TRACKER** EMBOSSED HEAD / COLOR
8d COMMON WIRE	0.131	2-1/2	6	4	3	3 / BLUE
8d "DIPPED GALV. BOX"	0.131	2-1/2	6	4	3	E3 / NONE
8d "SHINY BOX"	0.113	2-1/2	4-1/2	3	2-1/2	1 / BLUE
12 GA. STAPLES	0.1055	1-7/8"	6	5-1/2	4	-
14 GA. STAPLES	0.080	1-1/2"	6	4	3	-
15 GA STAPLES	0.072	1-1/2"	5	3	2-1/2	-
10d COMMON WIRE	0.148	3	6	4	3	4 / WHITE
10d "HOT DIPPED GALV. BOX"	0.148	3	6	4	3	F4 / NONE
10d "SHINY BOX"	0.128	3	4-1/2	3	2-1/4	3 / WHITE

\*BASED ON 15/32" PLYWOOD OR OSB.  
\*\*REFERENCE TO EMBOSSED HEAD / COLOR CODED NAILS PER TRACKERS SYSTEM.

WOOD SHEATHING (STRUCTURAL): SHEATHING ON ROOF SURFACES SHALL BE **PLYWOOD ONLY**. SHEATHING ON FLOOR AND WALLS SHALL BE PLYWOOD OR ORIENTED STRAND BOARD (OSB). PLYWOOD SHEATHING SHALL BE 5-PLY MINIMUM WHERE INDICATED AS PERFORMANCE CATAGORY 3/4" OR THICKER. WOOD SHEATHING SHALL BE "STRUCTURAL I" CONFORMING TO PS1-09 AND/OR PS2-10. ALL PANELS SHALL BEAR THE STAMP OF AN APPROVED GRADING AGENCY. SPAN RATING SHALL BE PROVIDED AS FOLLOWS: ROOF FRAMING AT 32"O.C. (48/24); ROOF FRAMING AT 24"O.C. (32/16); WALLS (32/16); FLOORS (48/24) ALL WOOD SHEATHED WALLS SHALL BE BLOCKED AT ALL PANEL EDGES UNLESS NOTED OTHERWISE.

GLUE-LAMINATED MEMBERS: CONFORM TO ANSI/AITC A190.1. MEMBERS SHALL BE COMBINATION 24F-V4 DOUGLAS FIR (DF) FOR SIMPLE SPANS AND 24F-V8 DF FOR CANTILEVERED SPANS (Fb=2400 PSI, Fv=265 PSI, E= 1.8X10^6 PSI) AND DF COMBINATION 2 FOR COLUMNS.

Archdiocese of Seattle  
St. Andrew Catholic Church Parish Hall  
1401 Valley Avenue East  
Sumner, WA 98390-2720



Job No:	1851	Date:	2/7/2020
File No:	19-232		
Drawn By:	MF		
Checked By:	DRS		
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GENERAL NOTES

S002



STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
SOILS	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		IBC 1705.6
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X		
	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X		
CONCRETE	INSPECT REINFORCEMENT, INCLUDING PRE-STRESSING TENDONS, AND VERIFY PLACEMENT		X		ACI 318: CH 20, 25.2, 25.3, 26.6-1 TO 26.6-3, IBC 1908.4
	ANCHORS CAST IN CONCRETE-PRIOR TO AND DURING PLACEMENT OF CONCRETE		X		ACI 318: 17.8.2 AISC 360 SECTION N7
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE		X		ACI 318: 3.8.6, 8.1.3, 21.2.8 IBC 1909.1
	VERIFY USE OF REQUIRED DESIGN MIX		X		ACI 318, CH 19
	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X			ASTM C172, C31 ACI 318: 26.4, 26.12 IBC 1908.10
	MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X		ACI 318: 26.5.3 TO 26.5.5 IBC 1908.9
	MATERIAL VERIFICATION OF REINFORCEMENT STEEL FOR ASTM A615 REINFORCING		X	MANUFACTURER SHALL PROVIDE MILL TEST REPORTS. CONTINUOUS INSPECTION FOR ALL WELDS GREATER THAN 5/16" FILLET. PERIODIC INSPECTION FOR FILLET WELD 5/16" AND SMALLER	ACI 318: 26.6.4 AWS D1.4 IBC 1705.3.1
	TESTING OF MATERIALS		X		IBC 1705.3.2
WOOD FRAMING	SHEAR WALL NAILING		X	SPECIAL INSPECTION NOT REQUIRED FOR FASTENER SPACING > 4" O.C.	IBC 1705.11.1, 1705.12.2, 1705.5
	DIAPHRAGM NAILING		X	SPECIAL INSPECTION NOT REQUIRED FOR FASTENER SPACING > 4" O.C.	IBC 1705.11.1, 1705.12.2, 1705.5
	NAILING, BOLTING, AND ANCHORAGE OF COMPONENTS THAT ARE PART OF DRAG STRUTS, BRACES AND HOLD-DOWNS THAT ARE PART OF THE SEISMIC RESISTING SYSTEM		X		IBC 1705.11.1, 1705.12.2
	METAL-PLATE-CONNECTED WOOD TRUSSES SPANNING 60 FEET OR GREATER		X	TEMPORARY AND PERMANENT BRACING	IBC 1705.5.2

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- » PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- » REVIEW OF TESTING AND INSPECTION REPORTS.
- » REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

ABBREVIATION LIST			
⦿	AT	HGR	HANGER
A.B.	ANCHOR BOLT	HORIZ.	HORIZONTAL
ADD'L	ADDITIONAL	HSS	HOLLOW STRUCTURAL SECTION
A.F.F.	ABOVE FINISH FLOOR	HT	HEIGHT
ALT.	ALTERNATE	INT.	INTERIOR
ARCH.	ARCHITECTURAL	JST	JOIST
BLD'G	BUILDING	JT	JOINT
BLK'G	BLOCKING	L	ANGLE
BM	BEAM	L.L.	LIVE LOAD
B.O.F.	BOTTOM OF FOOTING	LLH	LONG LEG HORIZONTAL
BOT.	BOTTOM	LLV	LONG LEG VERTICAL
BRG	BEARING	LOC.	LOCATION
BTWN	BETWEEN	LSL	LAMINATED STRAND LUMBER
B.U.	BUILT UP	LVL	LAMINATED VENEER LUMBER
(C= )	CAMBER	MAX.	MAXIMUM
CANT.	CANTILEVER	M.B.	MACHINE BOLT
C.F.S.	COLD-FORMED STEEL	MECH.	MECHANICAL
C.J.	CONTROL/CONSTRUCTION JOINT	MEZZ.	MEZZANINE
⌀	CENTERLINE	MFR	MANUFACTURER
CLR.	CLEARANCE	MIN.	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC.	MISCELLANEOUS
COL.	COLUMN	MTL	METAL
CONC.	CONCRETE	N.F.	NEAR FACE
CONN.	CONNECTION	N.S.	NEAR SIDE
CONST.	CONSTRUCTION	NTS	NOT TO SCALE
CONT.	CONTINUOUS	O.C.	ON CENTER
CONTR.	CONTRACTOR	OPN'G	OPENING
COORD.	COORDINATE	OPP.	OPPOSITE
C.P.	COMPLETE PENETRATION	P.A.F.	POWDER ACTUATED FASTENER
CTR'D	CENTERED	PERP.	PERPENDICULAR
C.Y.	CUBIC YARD	Ⓟ	PLATE
DBL.	DOUBLE	P.P.	PARTIAL PENETRATION
D.F.	DOUGLAS FIR	P.P.T.	PRESERVATIVE PRESSURE TREATED
DIA. OR ⌀	DIAMETER	P.S.F.	POUNDS PER SQUARE FOOT
DIAG.	DIAGONAL	PSL	PARALLAM
DIM.	DIMENSION	P.T.	POST TENSION
D.L.	DEAD LOAD	PLY.	PLYWOOD
DWG	DRAWING	REINF.	REINFORCING
DWL	DOWEL	REQ'D	REQUIRED
(E)	EXISTING	SCHED.	SCHEDULE
EA.	EACH	S.C.L.	STRUCTURAL COMPOSITE LUMBER
E.F.	EACH FACE	SHT'G	SHEATHING
EL.	ELEVATION	SIM.	SIMILAR
ELEV.	ELEVATOR	S.O.G.	SLAB ON GRADE
ENGR.	ENGINEER	SQ.	SQUARE
EQ.	EQUAL	STD	STANDARD
E.W.	EACH WAY	STIFF.	STIFFENER
EXP.	EXPANSION	STL	STEEL
EXT.	EXTERIOR	STRUCT.	STRUCTURAL
FDN	FOUNDATION	T&B	TOP & BOTTOM
F.F.	FAR FACE	T&G	TONGUE AND GROOVE
FLR	FLOOR	THR'D	THREADED
F.O.M.	FACE OF MASONRY	T.O.F.	TOP OF FOOTING
F.O.S.	FACE OF STUD	T.O.S.	TOP OF STEEL
FRMG	FRAMING	TRT'D	TREATED
F.R.T.	FIRE RETARDANT TREATED	TYP.	TYPICAL
F.S.	FAR SIDE	U.N.O.	UNLESS NOTED OTHERWISE
FTG	FOOTING	U.T.	ULTRASONIC TESTED
GA.	GAGE/GAUGE	VERT.	VERTICAL
GALV.	GALVANIZED	W/	WITH
GL.	GLULAM	W.P.	WORK POINT
GR.	GRADE	WT	WEIGHT
GWB	GYPSUM WALL BOARD	W.W.R.	WELDED WIRE REINFORCING
HDR	HEADER		

FOUNDATION NOTES & GRADE LEVEL FRAMING NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

2. T.O.S. = 0'-0"

3.  INDICATES CONCRETE STEM WALL.

4.  INDICATES WOOD STUD BUILT-UP COLUMNS. SEE 2/5301 FOR DETAIL.

5. FOR TYPICAL FOUNDATION DETAILS SEE SHEET S201.

6. [ ]

INDICATES SPECIAL BUILT-UP WOOD STUD COLUMN REQUIREMENTS UNDER HEADER. FOR TYPICAL FRAMING REQUIREMENTS AT OPENING IN STRUCTURAL WALLS SEE 1/5301 FOR TYPICAL DETAIL.

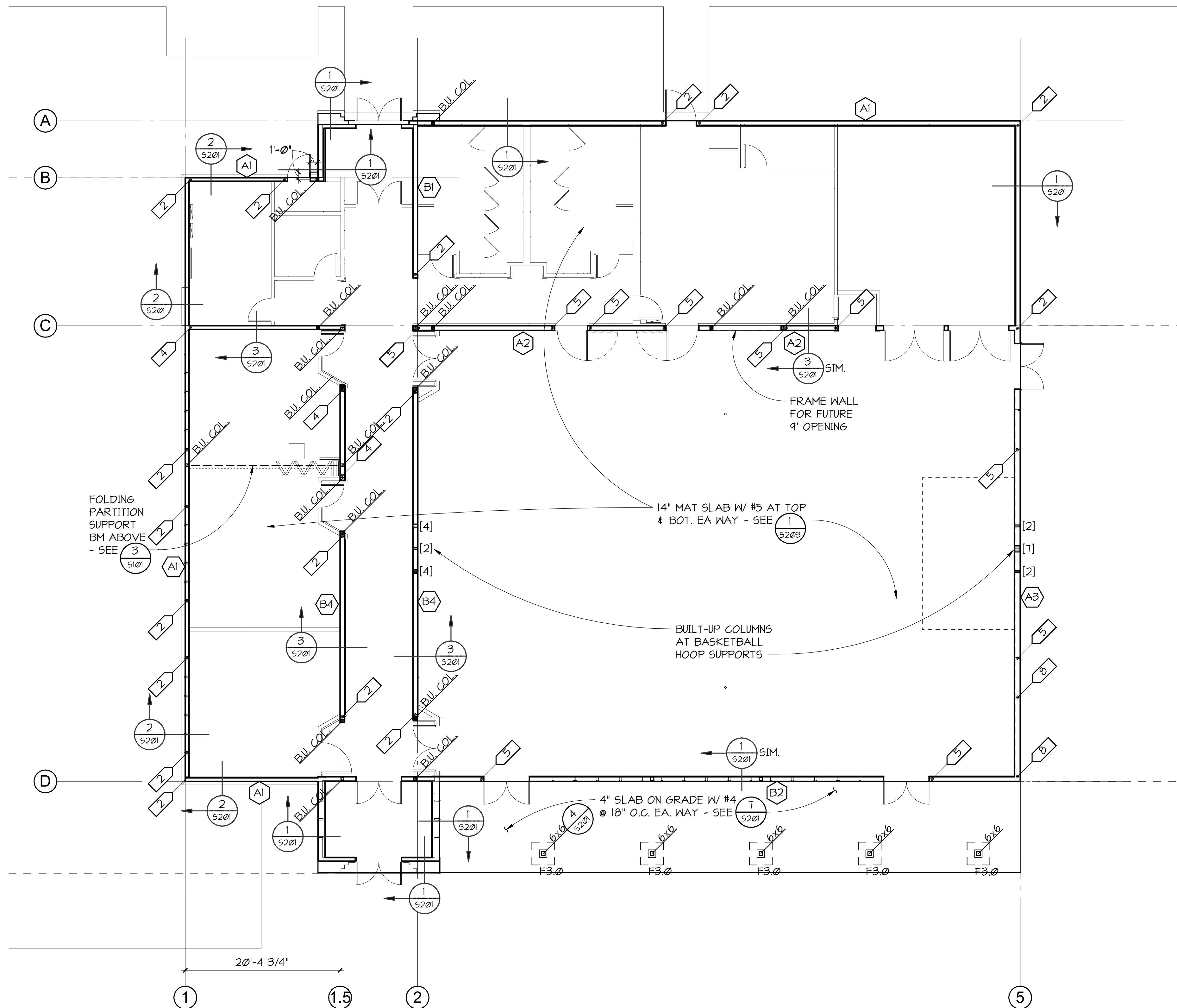
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INDICATES SPECIAL WOOD STUD WALL TYPE. SEE 4/5301 FOR SCHEDULE.

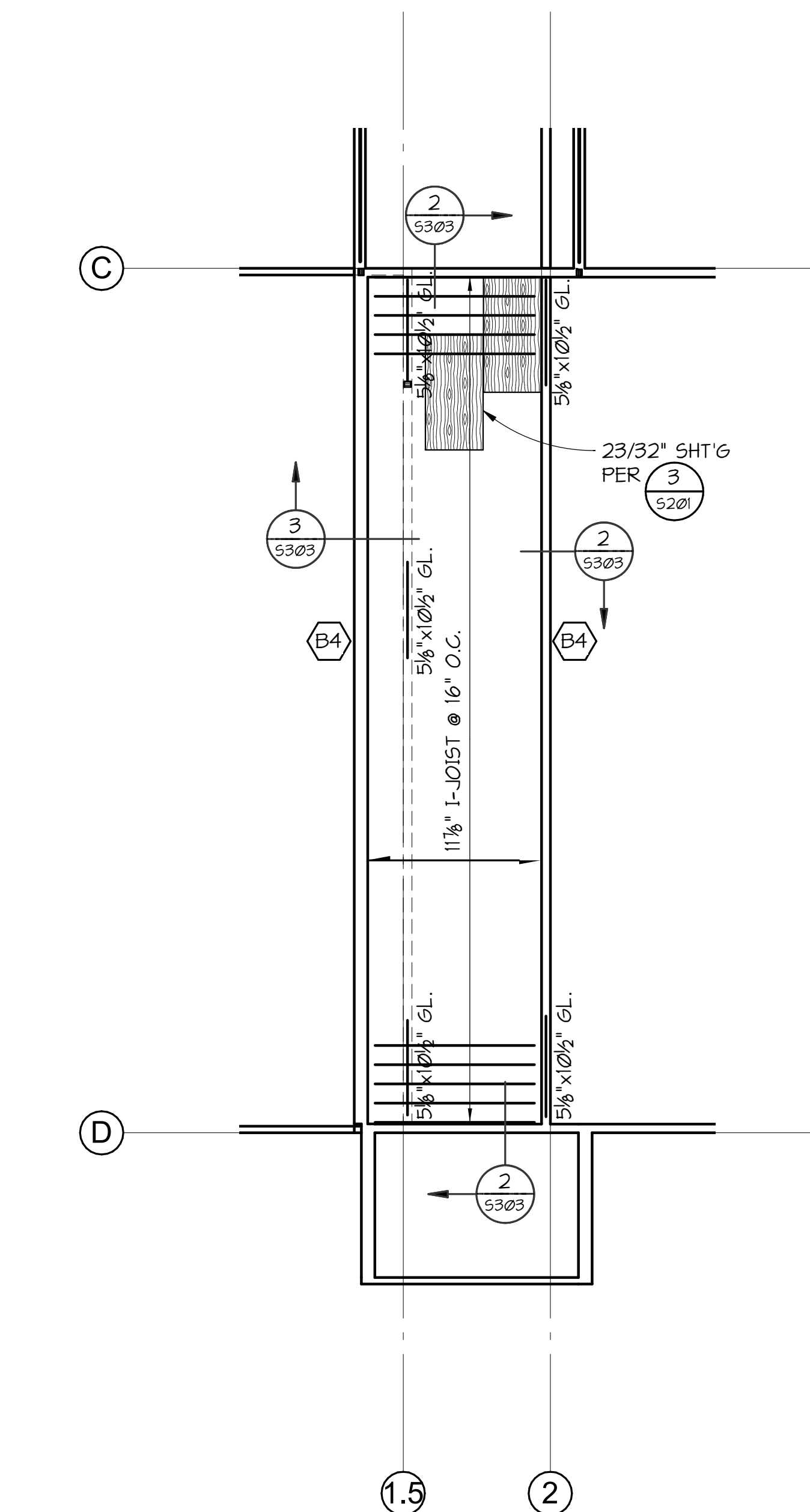
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INDICATES HOLDOWN. SEE 4/5301 FOR SCHEDULE.

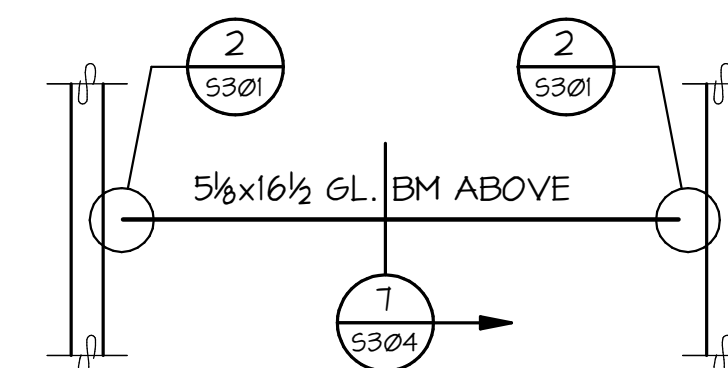
9. NON-STRUCTURAL STUD WALLS ARE NOT SHOWN OR SHOWN SCREENED. FOR LOCATION SEE ARCHITECTURAL DRAWINGS. FOR BRACING AT TOPS OF WALLS SEE 5304.



**FOUNDATION PLAN**  
1/8" = 1'-0"



**MECHANICAL PLATFORM FRAMING PLAN**  
1/8" = 1'-0"



**TYPICAL FOLDING WALL SUPPORT BEAM**  
NOTE: SEE ARCHITECTURAL FOR LOCATIONS.

**FRAMING PLAN**  
NO SCALE

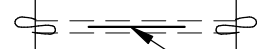

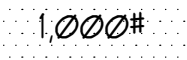
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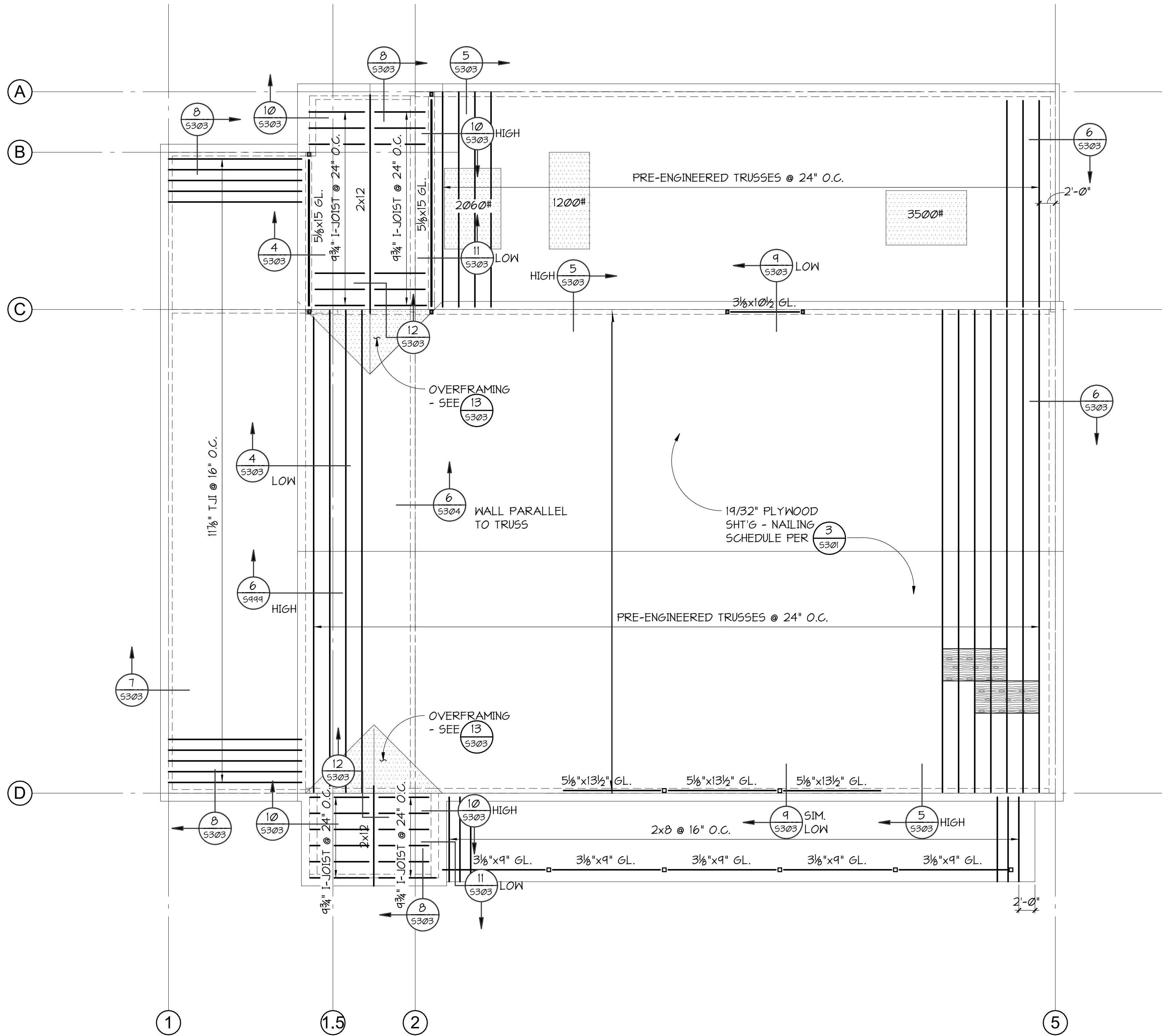
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File No:	19-232		
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Checked By:	DRS		
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FOUNDATION  
PLAN

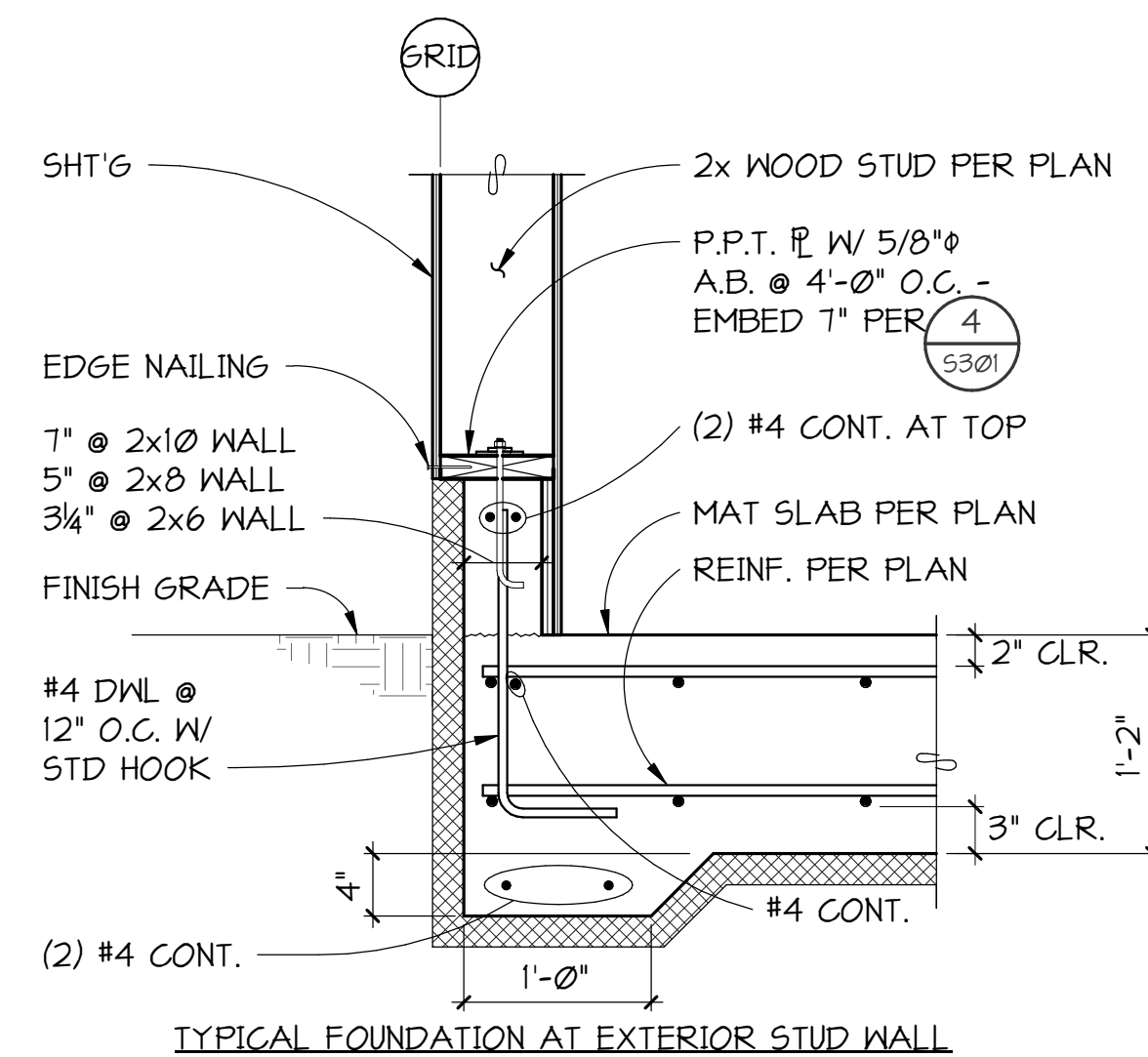
**S101**

ROOF FRAMING NOTES

- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
-  INDICATES WALL EXTENDING TO ROOF STRUCTURE.
-  INDICATES TYPICAL HEADER IN WALL BELOW. SEE 1/5301.
- PROVIDE 19/32" WOOD SHEATHING OVER ENTIRE ROOF STRUCTURE. NAIL SHEATHING WITH 10d @ 6" ON CENTER AT ALL SUPPORTED PANEL EDGES AND 10d @ 10" ON CENTER AT INTERMEDIATE FRAMING. TYPICAL UNLESS NOTED OTHERWISE.
-  INDICATES LOCATION OF ROOF TOP MECHANICAL UNITS AND MAXIMUM WEIGHT.

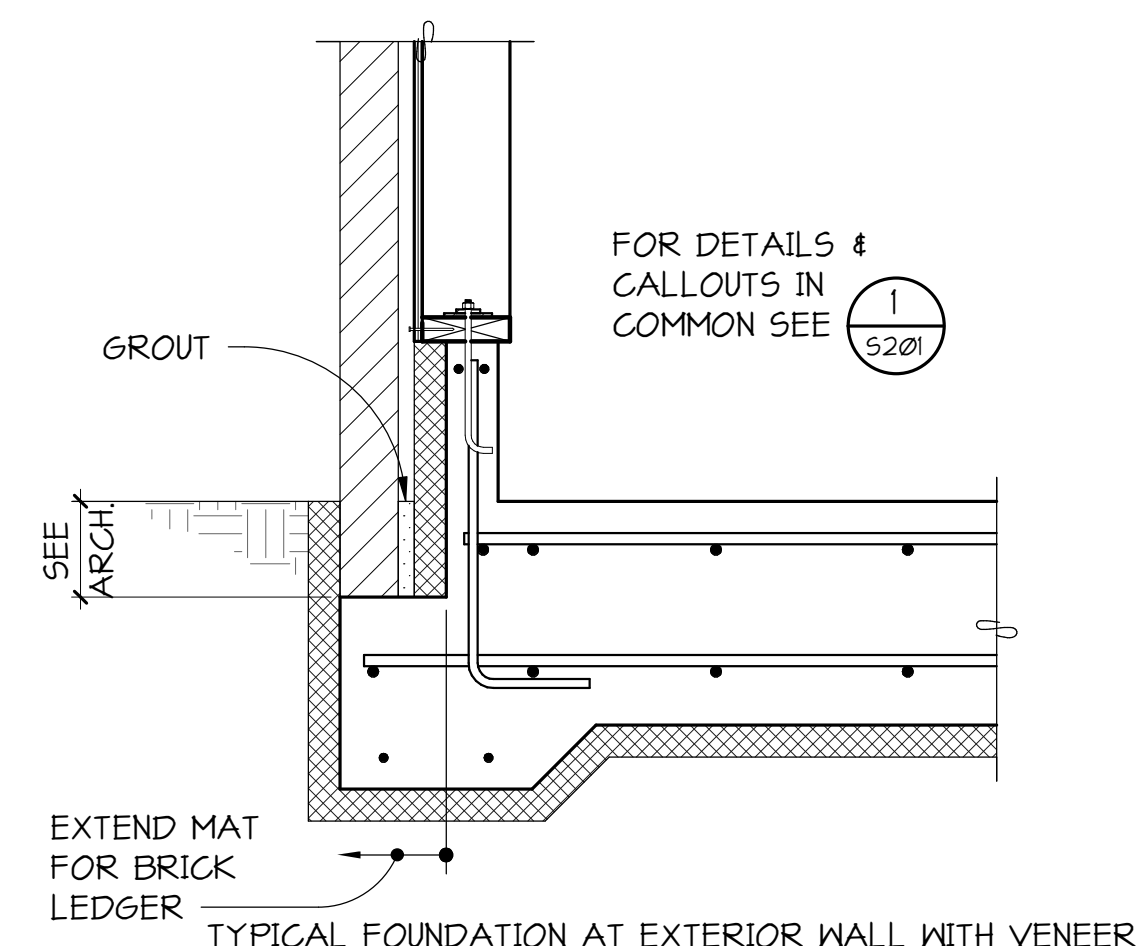


1 ROOF FRAMING PLAN  
5102 1/8" = 1'-0"

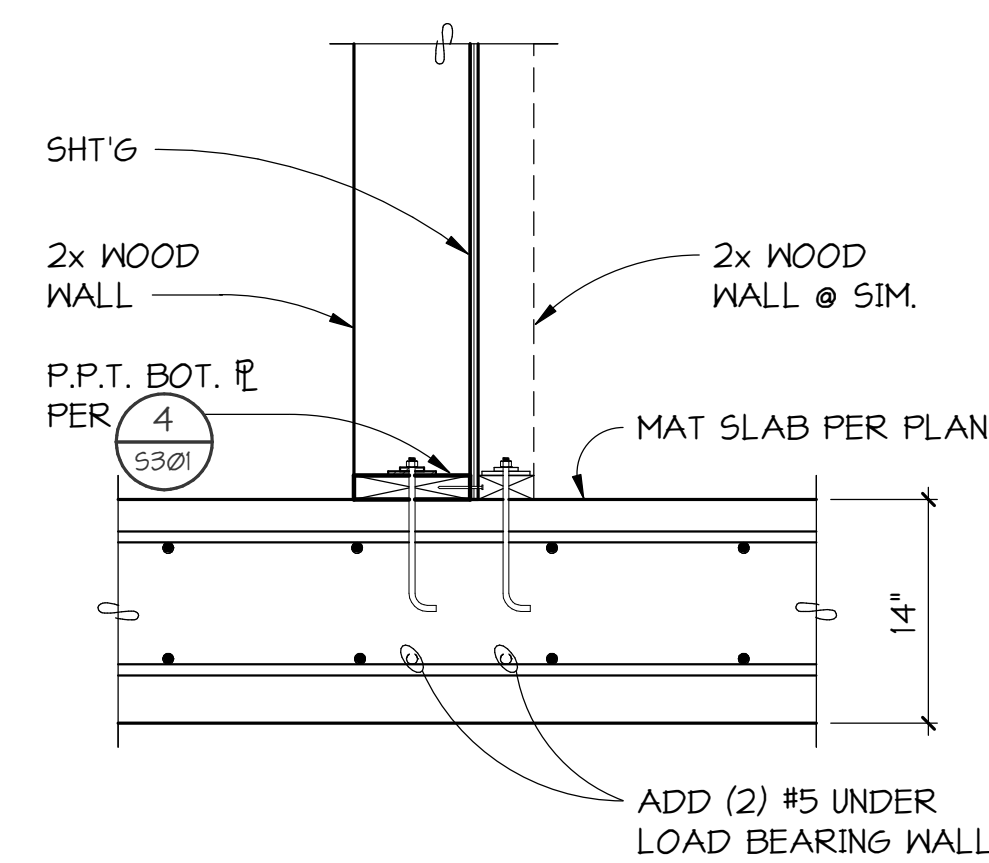


1  
S201

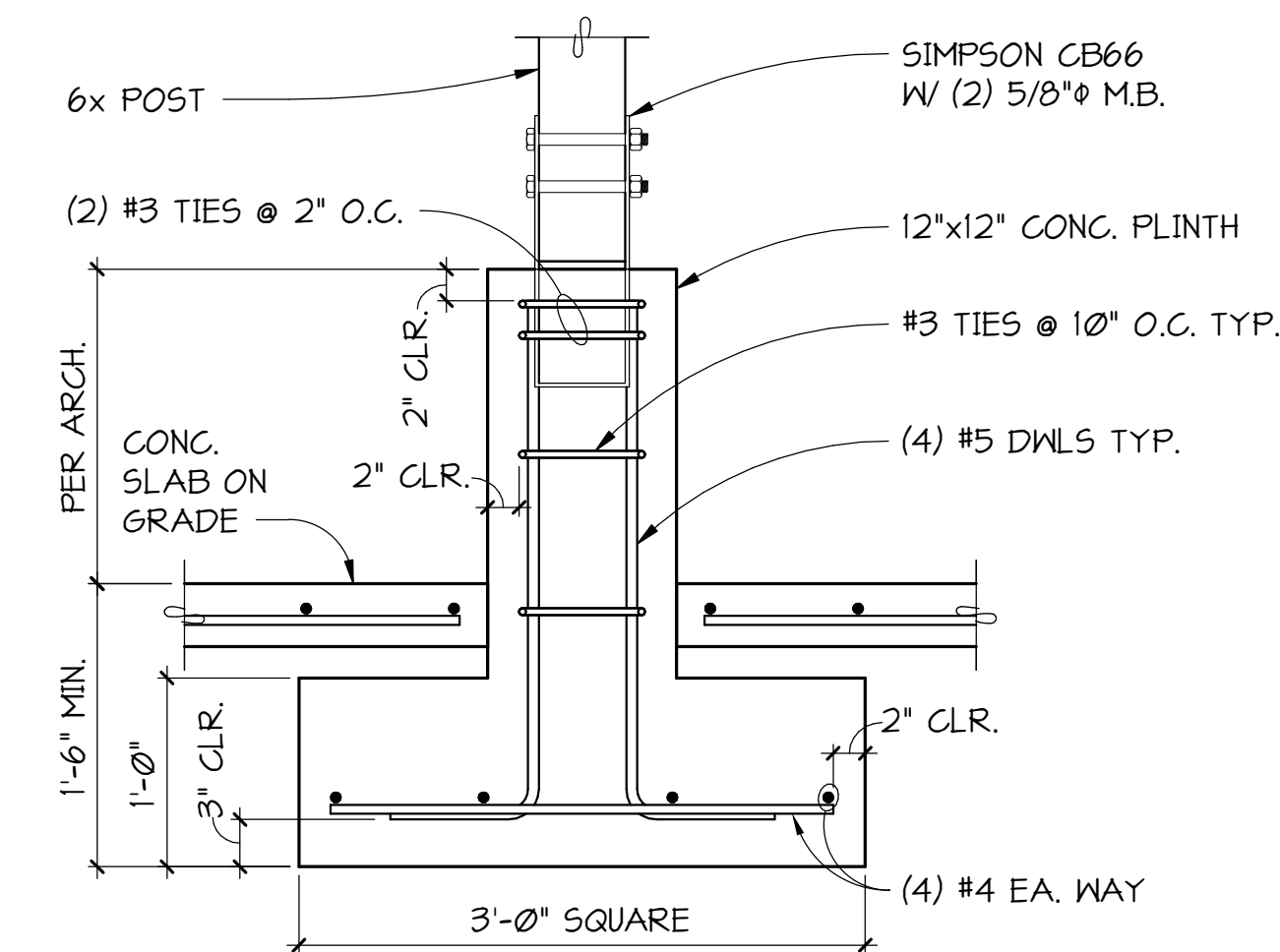
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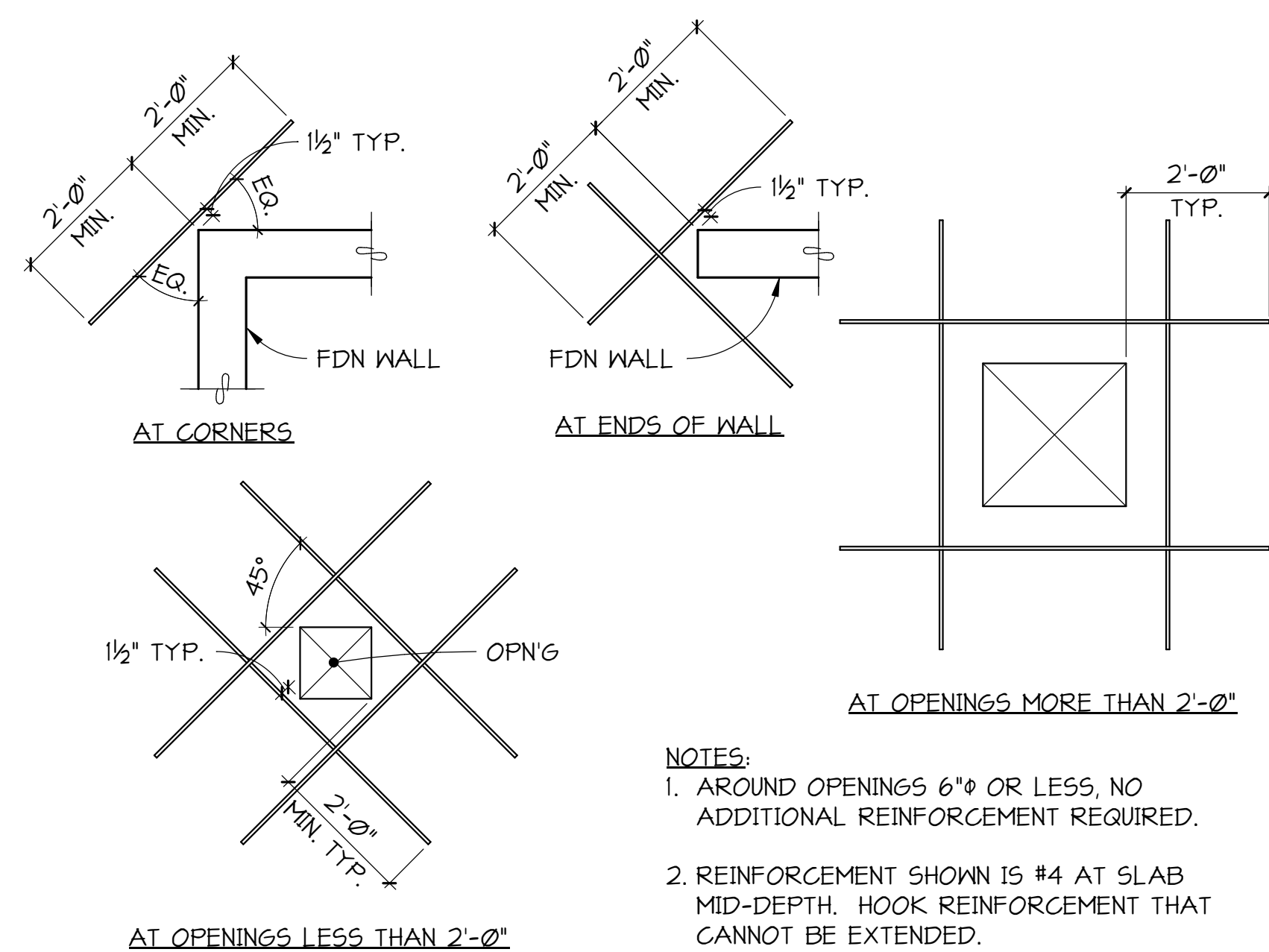
2 SECTION  
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3 SECTION  
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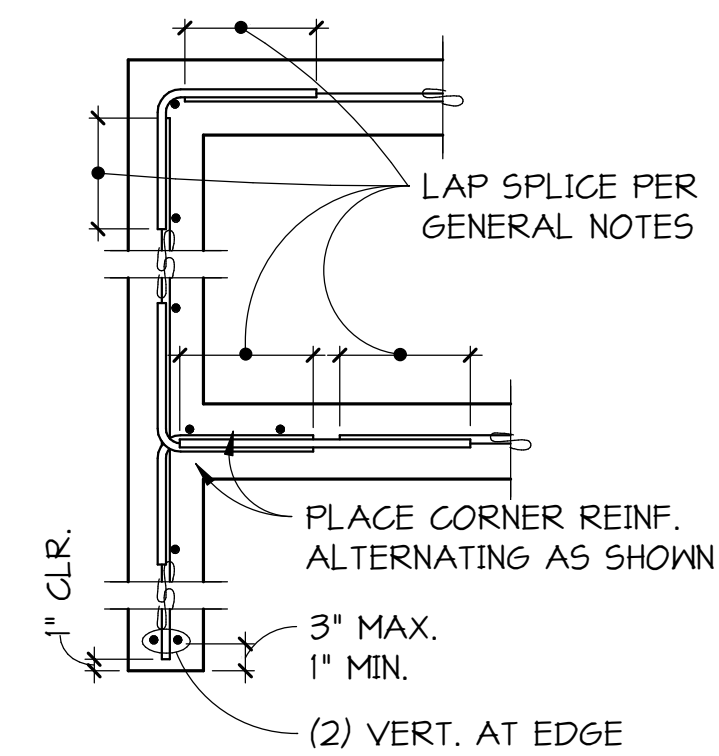


4 SECTION  
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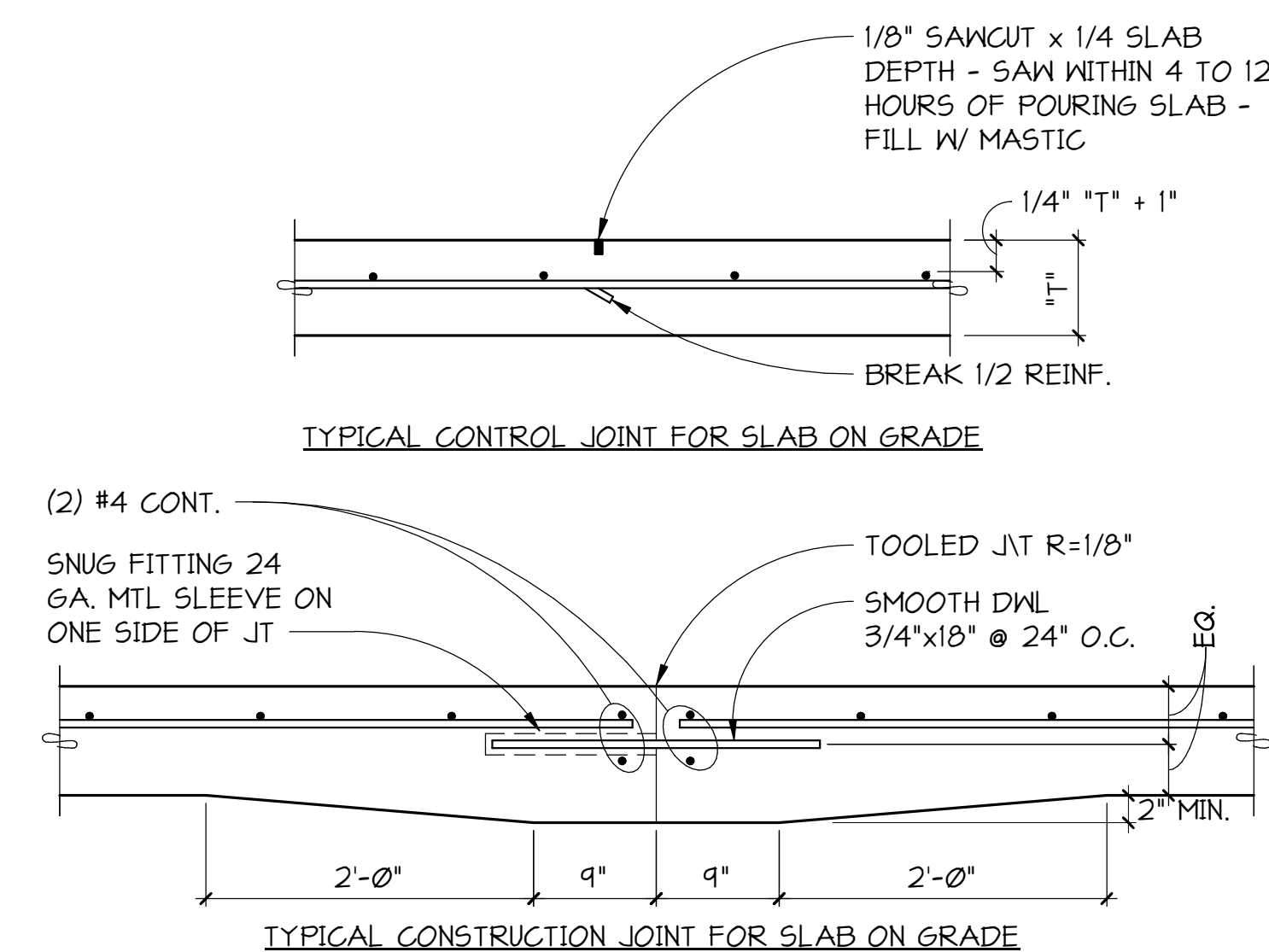
TYPICAL SLAB ON GRADE DISCONTINUITY REINFORCEMENT

5 PLAN DETAILS  
5201 NO SCALE

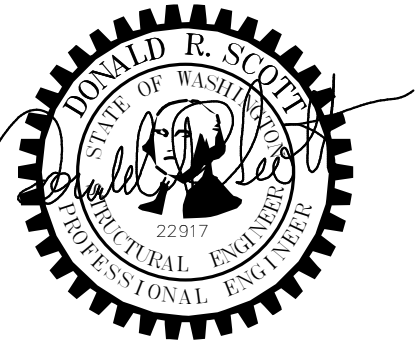


TYPICAL REINFORCEMENT PLACEMENT PLAN FOR CONCRETE STEM WALLS

6 SECTION  
5201 NO SCALE



7 SECTION  
S201 NO SCALE



**RMC**  
**ARCHITECTS**

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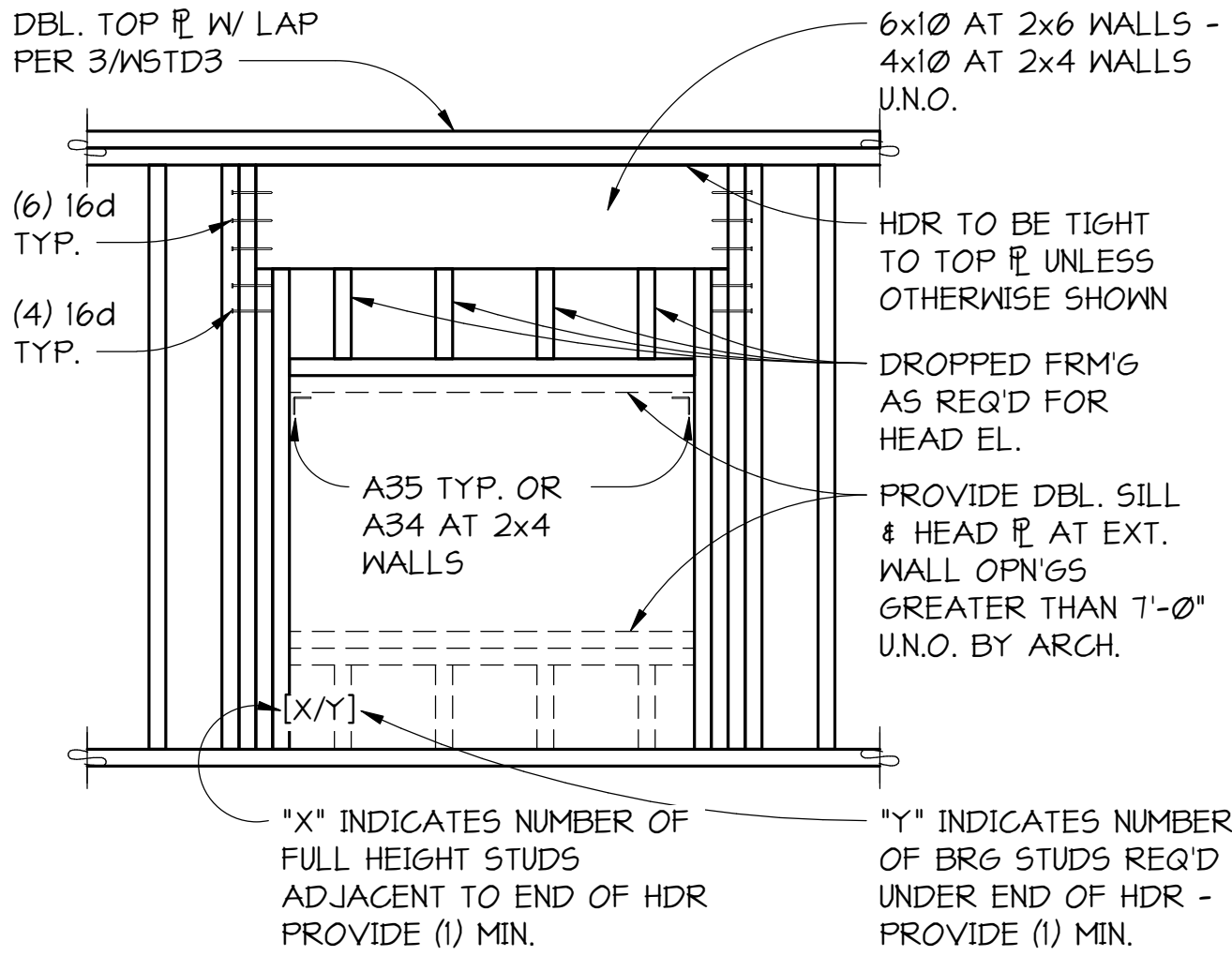
## FOUNDATION DETAILS

# S201



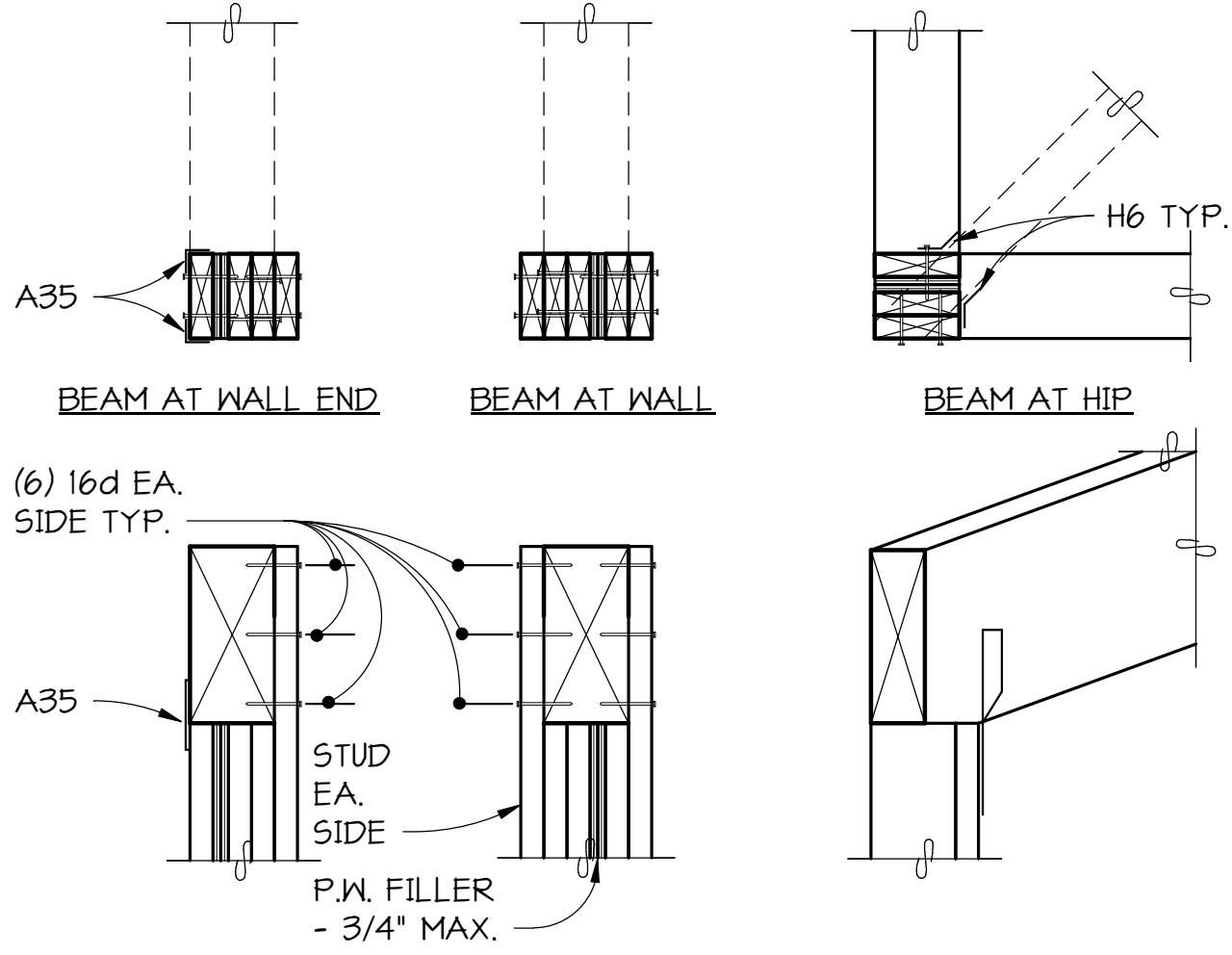
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TYPICAL STUD WALL CONSTRUCTION AT HEADER

1 SECTION  
S301 NO SCALE



TYPICAL BUILT-UP COLUMN AT BEAM PERPENDICULAR TO WALL

2 DETAIL  
S301 NO SCALE

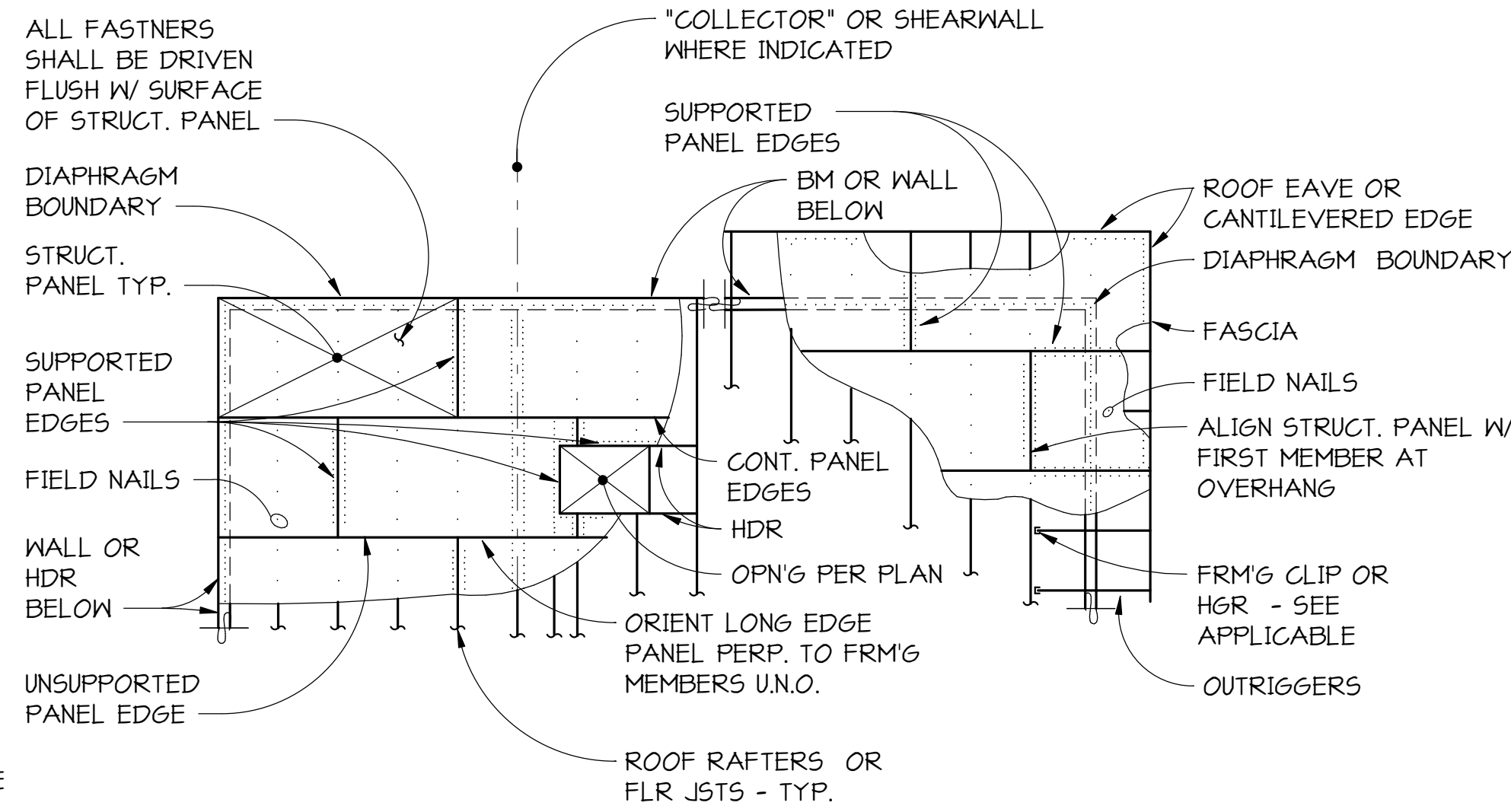
DIAPHRAGM NAILING SCHEDULE			
DIAPHRAGM TYPE	LOCATION	NAILS	SPACING
FLOOR DIAPHRAGM 23/32" TONGUE AND GROOVE SHEATHING UNBLOCKED UNLESS NOTED OTHERWISE	DIAPHRAGM BOUNDARY	10d	6" O.C.
	FIELD NAILS	10d	12" O.C.
	SUPPORTED PANEL EDGES	10d	6" O.C.
ROOF DIAPHRAGM 19/32" SHEATHING UNBLOCKED UNLESS NOTED OTHERWISE	DIAPHRAGM BOUNDARY	10d	6" O.C.
	FIELD NAILS	10d	10" O.C.
	SUPPORTED PANEL EDGES	10d	6" O.C.

NOTES:

- PROVIDE (2) ROWS OF SPECIFIED DIAPHRAGM BOUNDARY NAILING OVER INTERIOR SHEAR WALLS AND THE FULL LENGTH OF "COLLECTORS" WHERE INDICATED.
- AT BLOCKED DIAPHRAGMS PROVIDE 2x4 FLATWISE BLOCKING WITH "Z2" CLIPS AT EACH END AT ALL UNSUPPORTED PANEL EDGES. USE 2x4 STRUCTURAL COMPOSITE LUMBER FLATWISE BLOCKING IN LIEU OF SOLID SAWN WHERE NAILING SIZE OR SPACING EXCEEDS 10d @ 4" O.C.

TYPICAL DIAPHRAGM NAILING

3 SCHEDULE  
S301 NO SCALE



STUD WALL CONSTRUCTION SCHEDULE										
TABLE 1 - SHEAR WALL REQUIREMENTS										
MARK	WALL SHEATHING	SIDES WITH SHEATHING	SHEATHING NAILS NOTE 2	EDGE NAILING ON CENTER	EDGE FRAMING NAILING NOTE 5	FIELD NAILING ON CENTER	BOTTOM PLATE NOTE 6	BOTTOM PLATE NAILING	5/8" ANCHOR BOLT SPACING (EMBED 1" MINIMUM)	RIM/BLOCKING CONNECTOR TO TOP PLATE BELOW
A	15/32"	(1)	10d	6"	2x	12"	2x	16d @ 8" O.C.	48"	A35 @ 24" O.C.
B	15/32"	(1)	10d	4"	3x	12"	2x	16d @ 8" O.C.	32"	A35 @ 16" O.C.

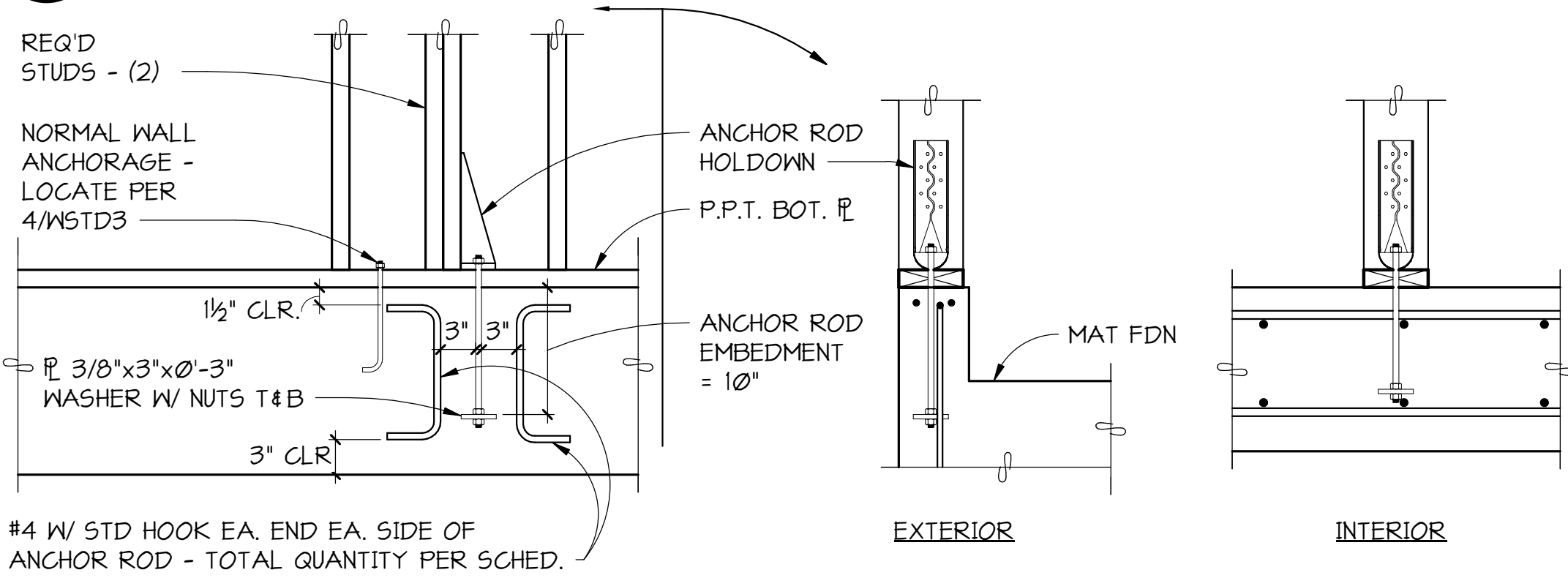
TABLE 2 - STUD REQUIREMENTS		
MARK	STUD SIZE AND SPACING	NUMBER STUDS REQUIRED AT MEMBER BEARING
1	2x6 @ 16" O.C.	1
2	2x8 @ 12" O.C.	2
3	1 1/2 x 9 1/4 LVL @ 16" O.C.	1
4	1 1/2 x 7 1/4 LVL @ 16" O.C.	1

NOTES:  
FIRST CHARACTER INDICATES SPECIAL SHEAR WALL REQUIREMENTS PER TABLE 1  
SECOND CHARACTER INDICATES SPECIAL STUD SPACING PER TABLE 2

1. XX INDICATES SPECIAL STRUCTURAL WALL MARK. ALL WALLS SHOWN ON STRUCTURAL DRAWINGS ARE 2x6 AT 16" ON CENTER UNLESS DESIGNATED SPECIAL. STUD LAYOUT SHALL MATCH FRAMING MEMBER LAYOUT ABOVE WHERE APPLICABLE. ALL EXTERIOR WALLS SHALL HAVE 15/32" WOOD SHEATHING AND BE NAILED WITH 10d AT 6" ON CENTER AT EDGES AND 12" ON CENTER IN FIELD UNLESS DESIGNATED SPECIAL.

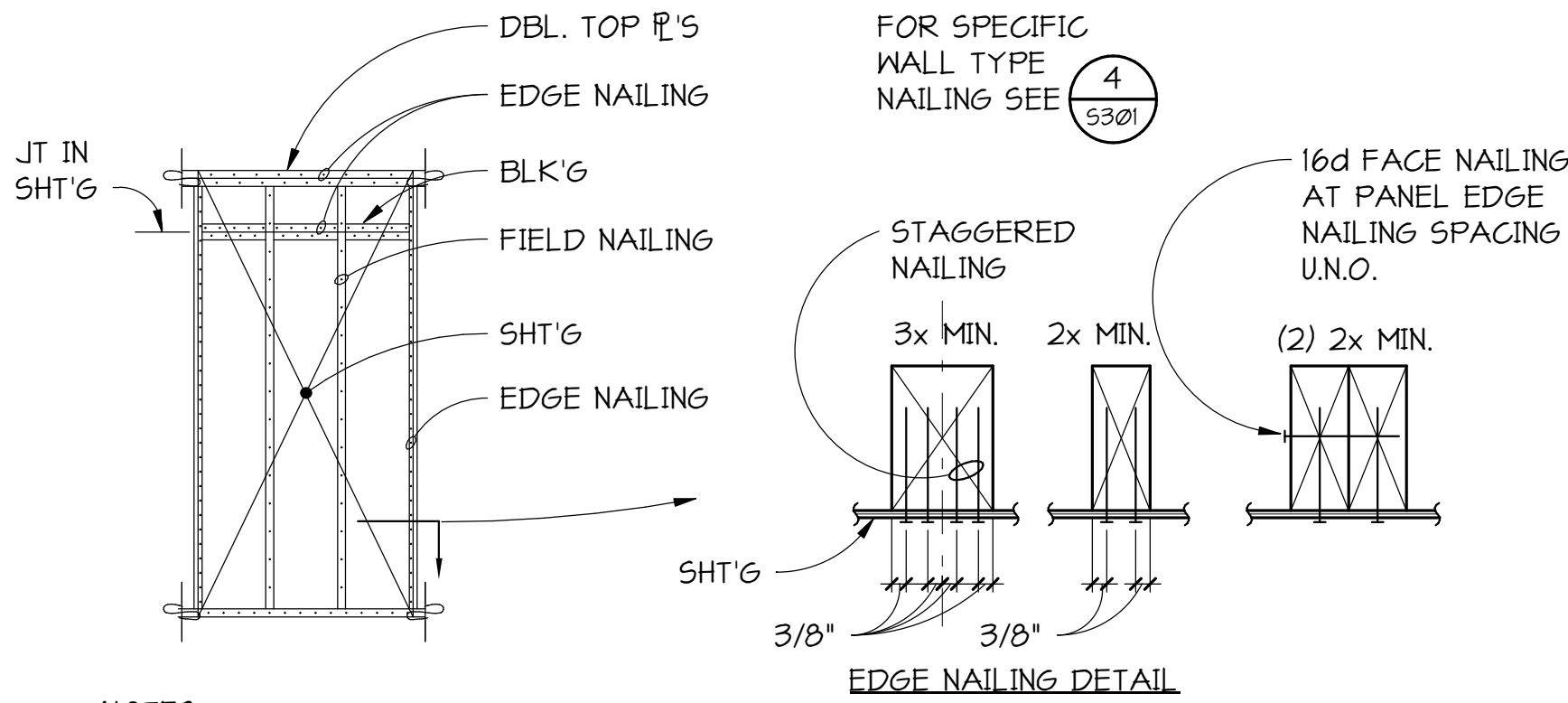
- ALL EXTERIOR WALLS AND ALL DESIGNATED SHEAR WALLS SHALL BE BLOCKED AT ALL SHEATHING EDGES. EDGE NAILING APPLIES TO ALL TOP AND BOTTOM PLATES, VERTICAL JOINTS, HORIZONTAL BLOCKED JOINTS, WALL CORNERS, AND HOLDOWN ANCHORED STUDS.
- WHERE BEAMS OR HEADERS FRAME INTO WALLS AND A COLUMN IS NOT CALLED OUT, PROVIDE BUILT-UP COLUMNS PER 4/16STD2 FOR BEAM PERPENDICULAR TO WALL.
- [X] Y INDICATES BUILT-UP STUD COLUMNS AT HEADERS IN WALLS - SEE 1/16STD2 FOR BEAM PARALLEL TO WALL.
- PROVIDE 3x OR DOUBLE 2x MEMBERS FACE NAILED PER 7/16STD2 AT ALL ABUTTING PANEL EDGES WHERE INDICATED.
- 3x BOTTOM PLATE WHERE INDICATED.
- WHERE SOLID SAWN STUD LENGTH CANNOT BE OBTAINED, STRUCTURAL COMPOSITE LUMBER STUDS MAY BE SUBSTITUTED. SOLID SAWN FRAMING MAY NOT BE SUBSTITUTED FOR SPECIFIED STRUCTURAL COMPOSITE LUMBER FRAMING.

4 SCHEDULE  
S301 NO SCALE



TYPICAL FOUNDATION ANCHOR ROD HOLDOWN

7 DETAIL  
S301 NO SCALE



NOTES:

- PANEL EDGE NAILING AND PLATE NAILING SHALL BE STAGGERED IN ALL CASES.
- SHEATHING JOINT SHALL OCCUR AT COMMON MEMBER UNLESS IT OCCURS AT A SPECIFIED DOUBLE MEMBER.
- EDGE NAILING APPLIES TO AREAS INDICATED AND AT HOLDOWN ANCHORED STUDS.

TYPICAL SHEARWALL NAILING

5 SCHEDULE  
S301 NO SCALE

HOLDOWN SCHEDULE				
FOUNDATION ANCHOR ROD TYPE 1				
MARK	HOLDOWN 2	ANCHOR ROD 3		REQUIRED STUDS
		DIAMETER	REINFORCEMENT 4	REFERENCED DETAILS
2	HDU2	5/8"	(2) #4	(2) 2x 2/303
4	HDU4	5/8"	(2) #4	(2) 2x 2/303
5	HDU5	5/8"	(2) #4	(2) 2x 2/303
8	HDU8	7/8"	(2) #4	(3) 2x 2/303

NOTES:

- ALL HOLDOWNS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE BACK TO BACK ANCHOR ROD HOLDOWNS ACROSS FLOOR LINE PER 5/16STD4.
- ALL-THREAD ROD ASTM A36 WITH 3"x3"x3/8" PLATE WITH DOUBLE NUTS AT FOUNDATION.
- EMBEDMENT MAY REQUIRE STEPPING DOWN FOOTING PER 1/CF01 TO ACHIEVE REQUIRED EMBEDMENT.

6 SCHEDULE  
S301 NO SCALE

RMC ARCHITECTS



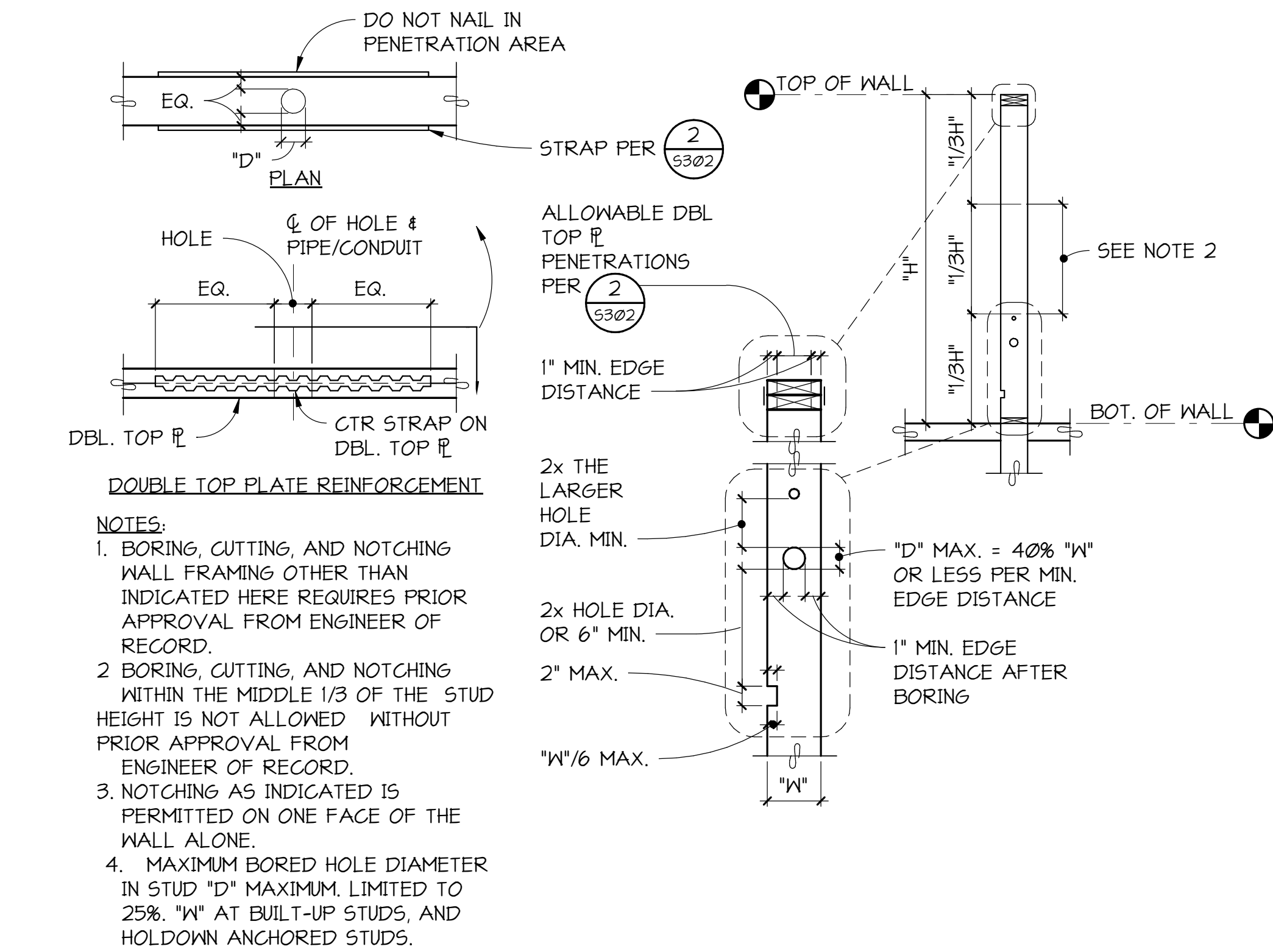
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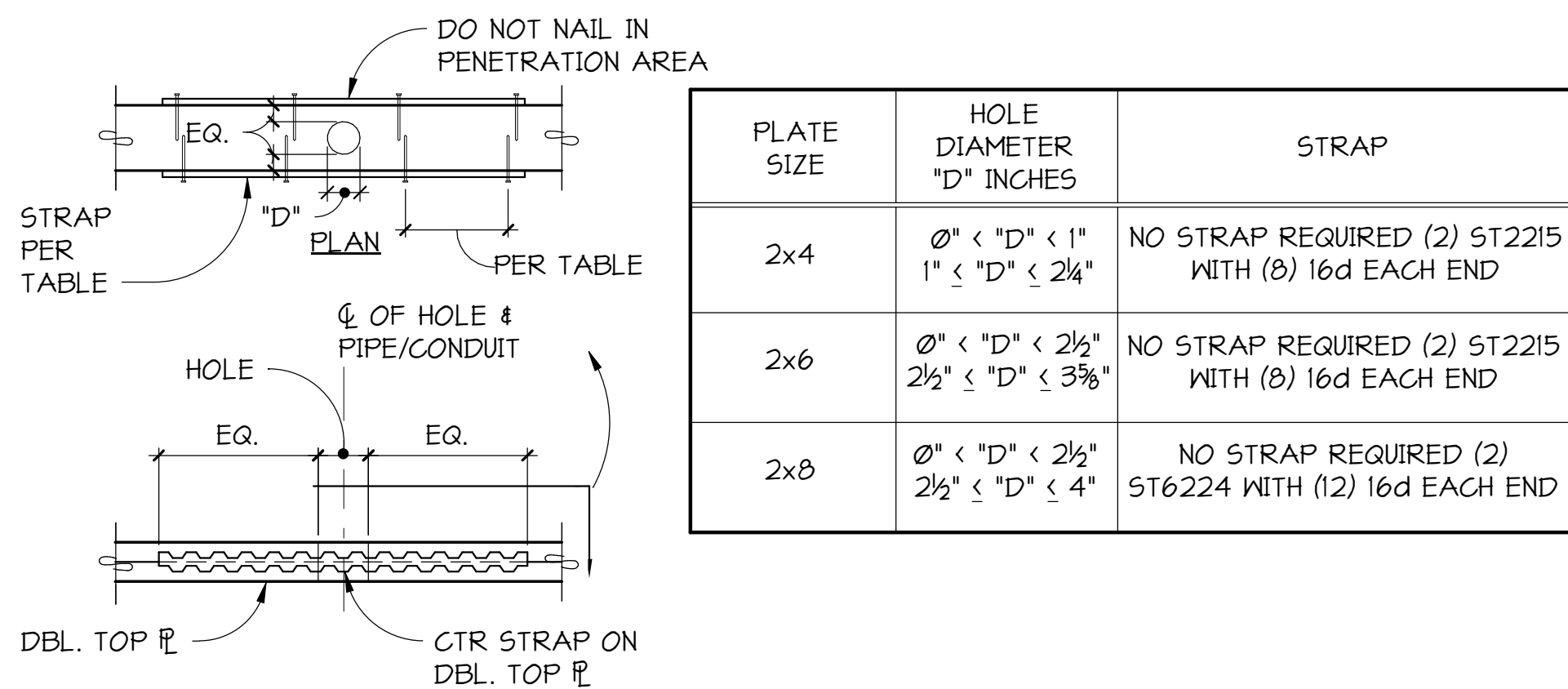
FRAMING DETAILS

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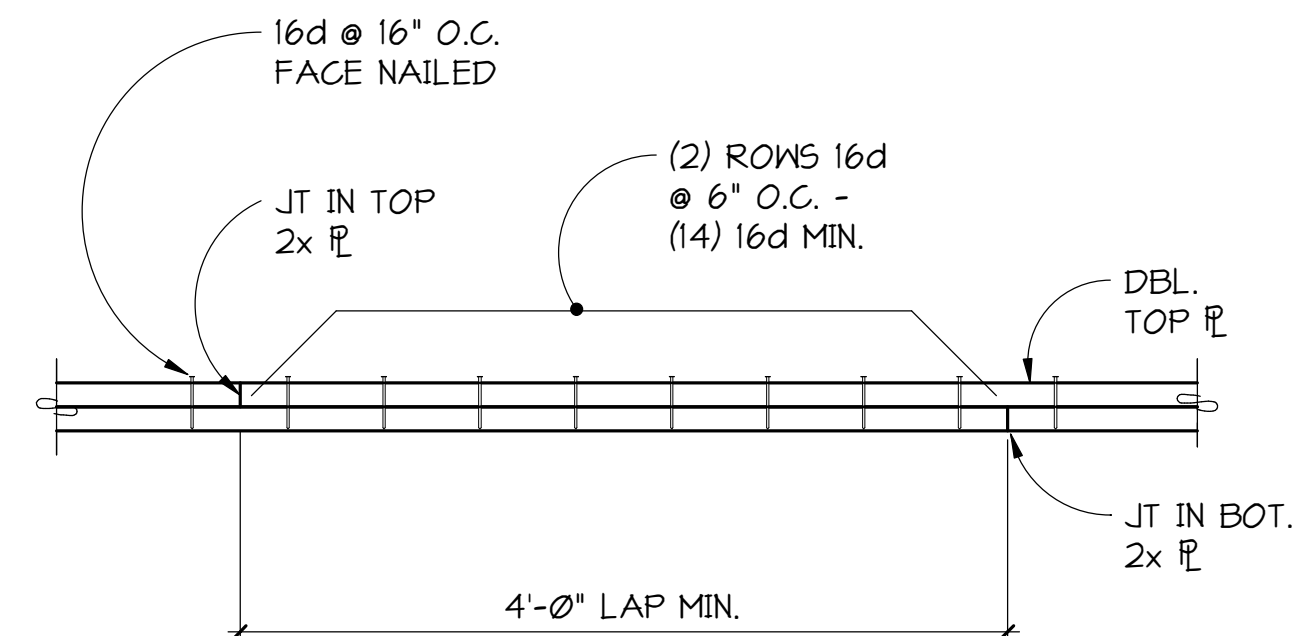
S301



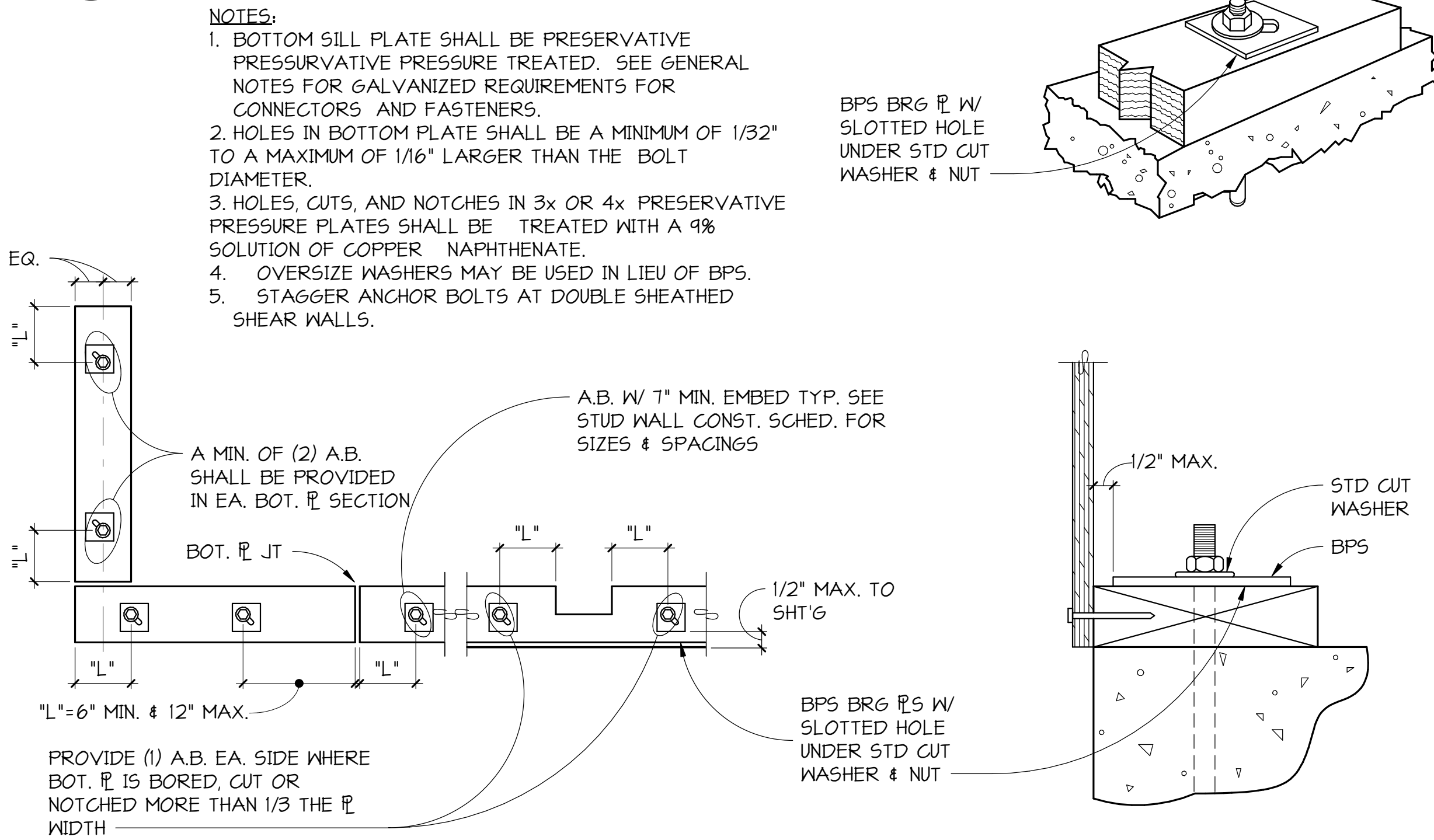
2  
S302  
TYPICAL REINFORCING AT WALL DOUBLE TOP PLATE PENETRATIONS  
NO SCALE



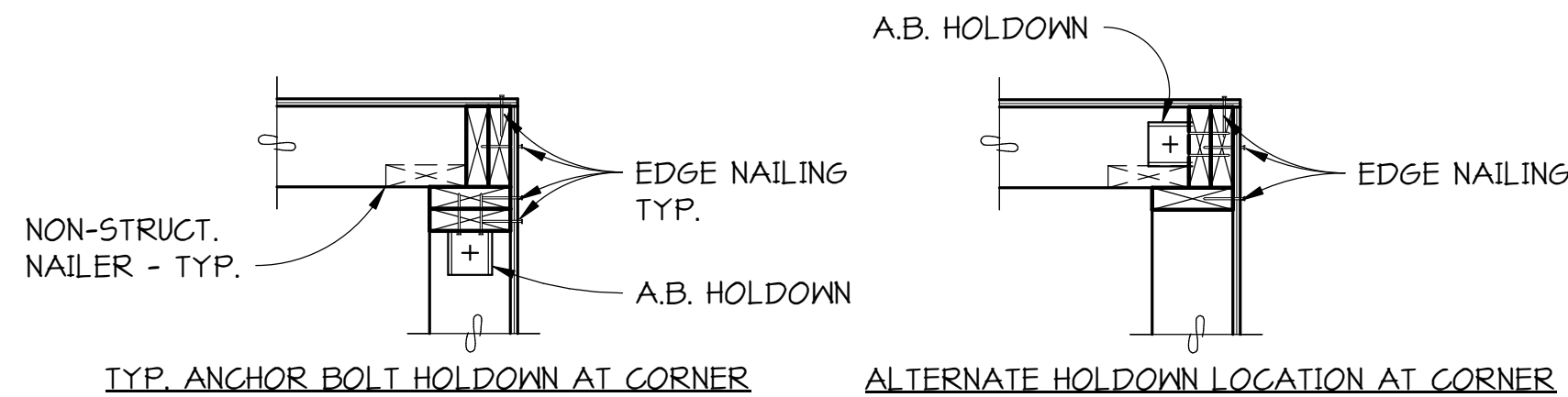
3  
S302  
SECTION  
NO SCALE



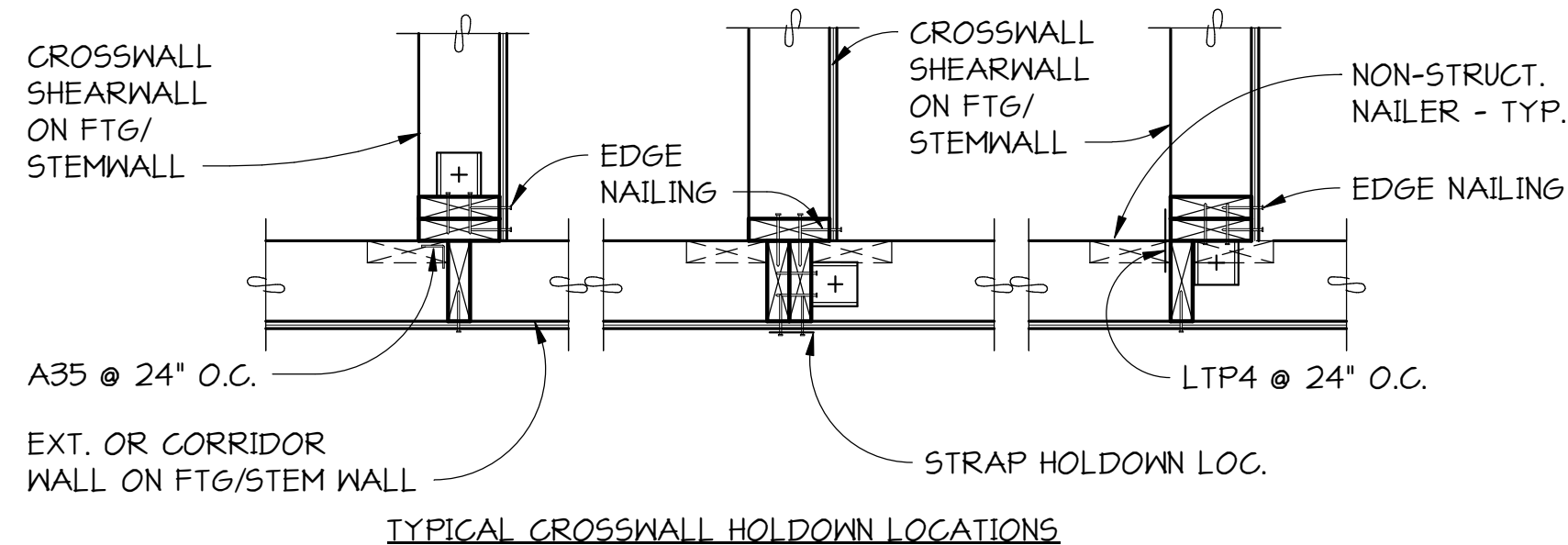
1  
S302  
ALLOWABLE LOAD BEARING/SHEARWALL STUD BORING, CUTTING, AND NOTCHING  
NO SCALE



4  
S302  
TYPICAL BOTTOM PLATE ANCHORAGE  
NO SCALE



5  
S302  
TYPICAL CROSSWALL HOLD-DOWN LOCATIONS  
NO SCALE



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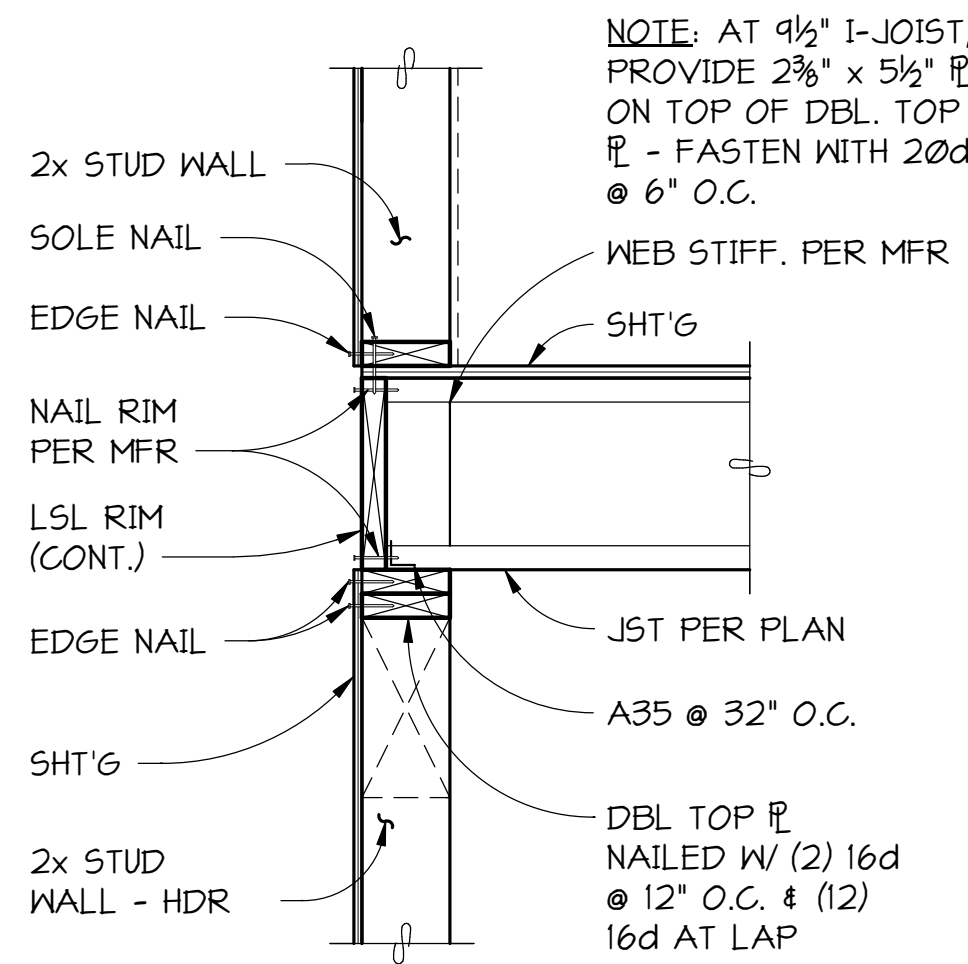
Job No:	1851	Date:	2/7/2020
File No:	19-232		
Drawn By:	MF		
Checked By:	DRS		
Issued For:	PERMIT		

FRAMING DETAILS



C:\\_Revit Models\19232 St Andrew Parish Hall v2018 (Central)\_main1h.rvt

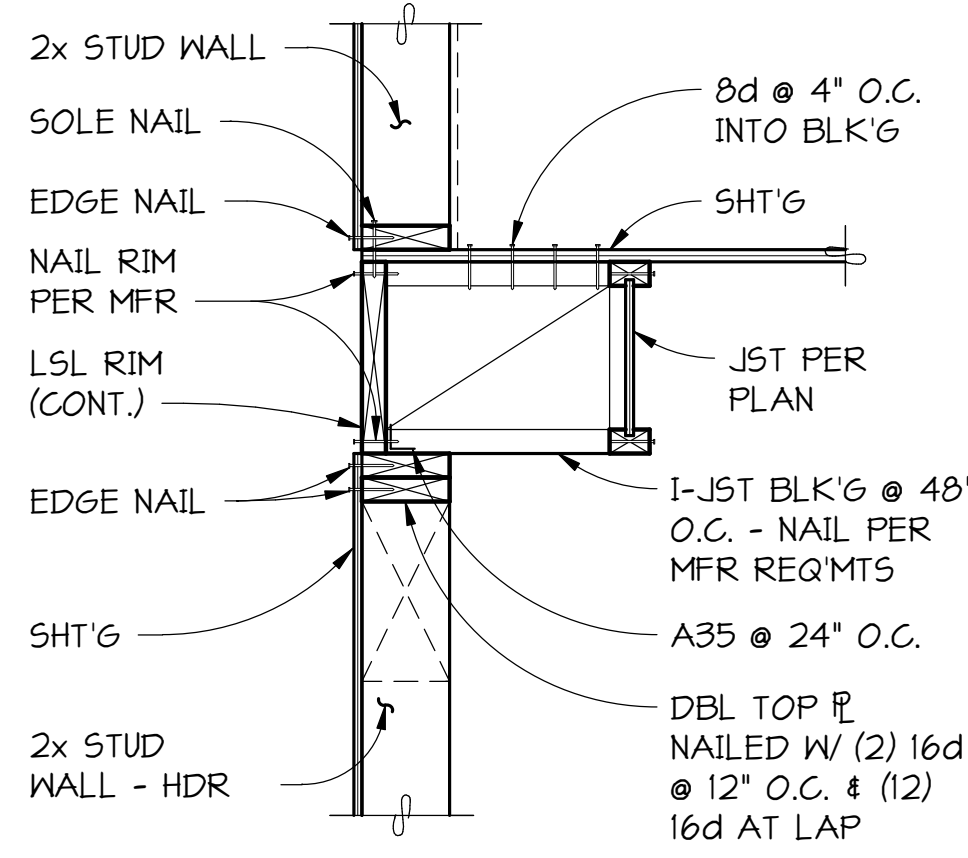
2/6/2020 3:05:38 PM



TYPICAL I-JOIST BEARING AT STUD WALL

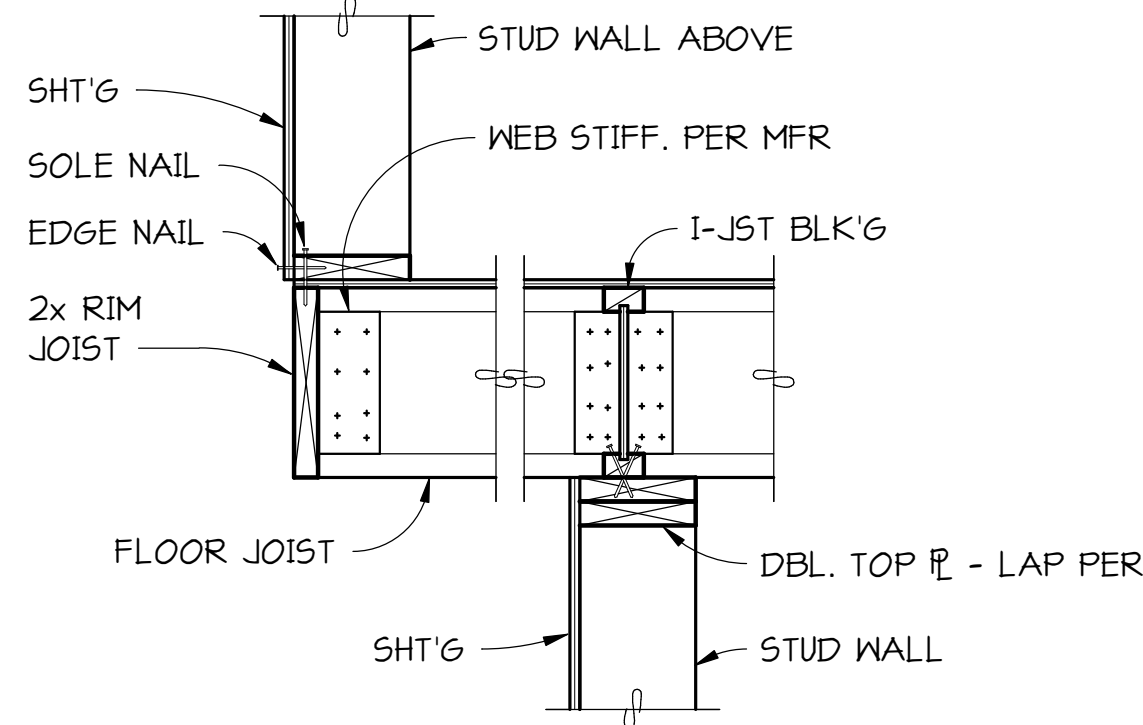
1 SECTION  
5303 NO SCALE

NOTE: AT 9 1/2" I-JOIST, PROVIDE 2 3/8" x 5 1/2" PL ON TOP OF DBL. TOP PL - FASTEN WITH 20d @ 6" O.C.

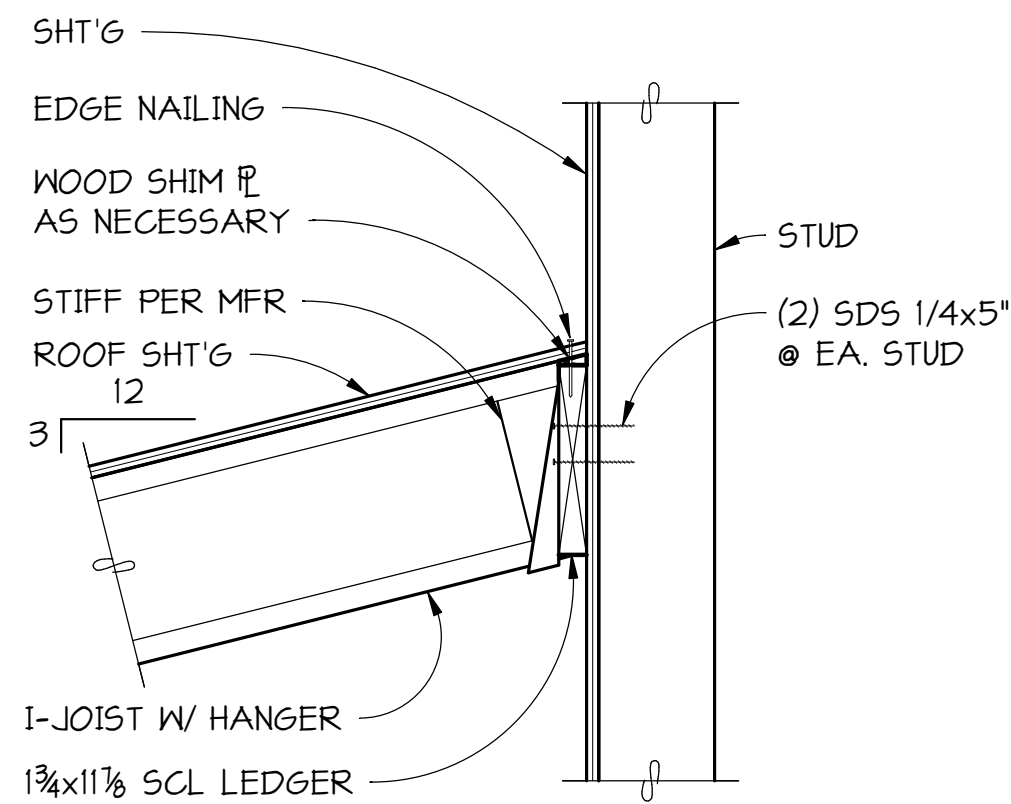


TYPICAL I-JOIST PARALLEL TO STUD WALL

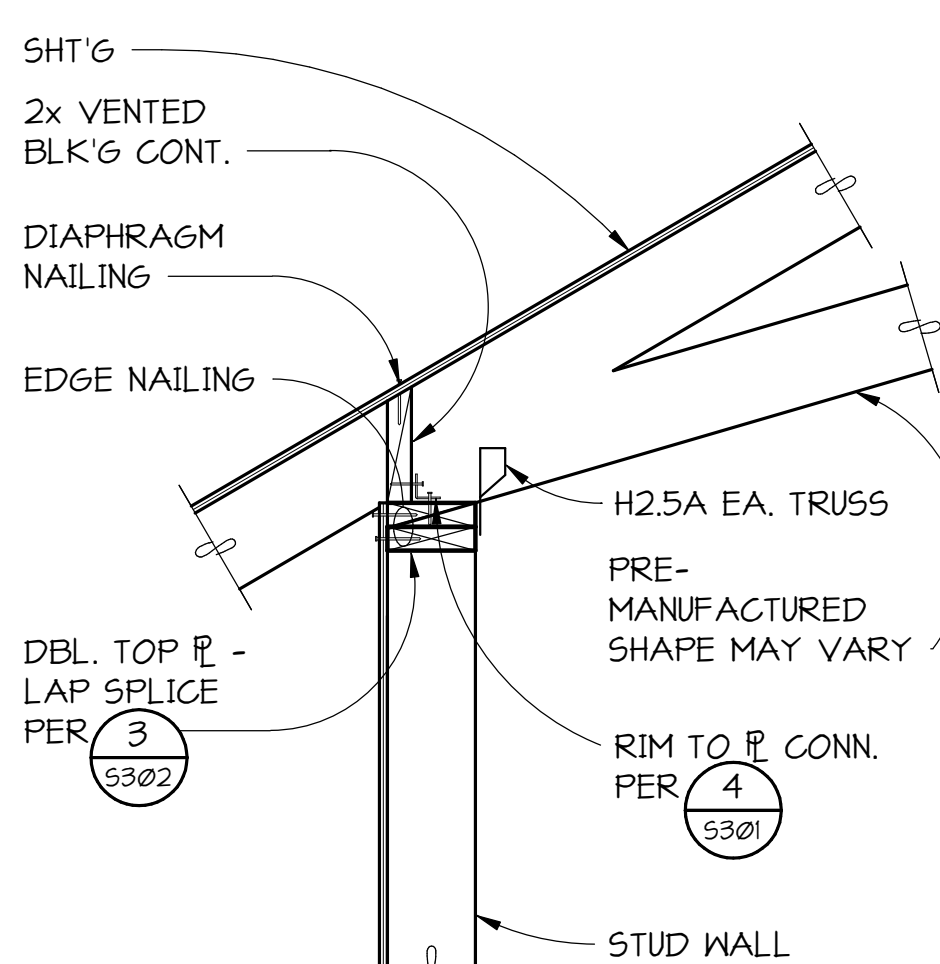
2 SECTION  
5303 NO SCALE



3 SECTION  
5303 NO SCALE

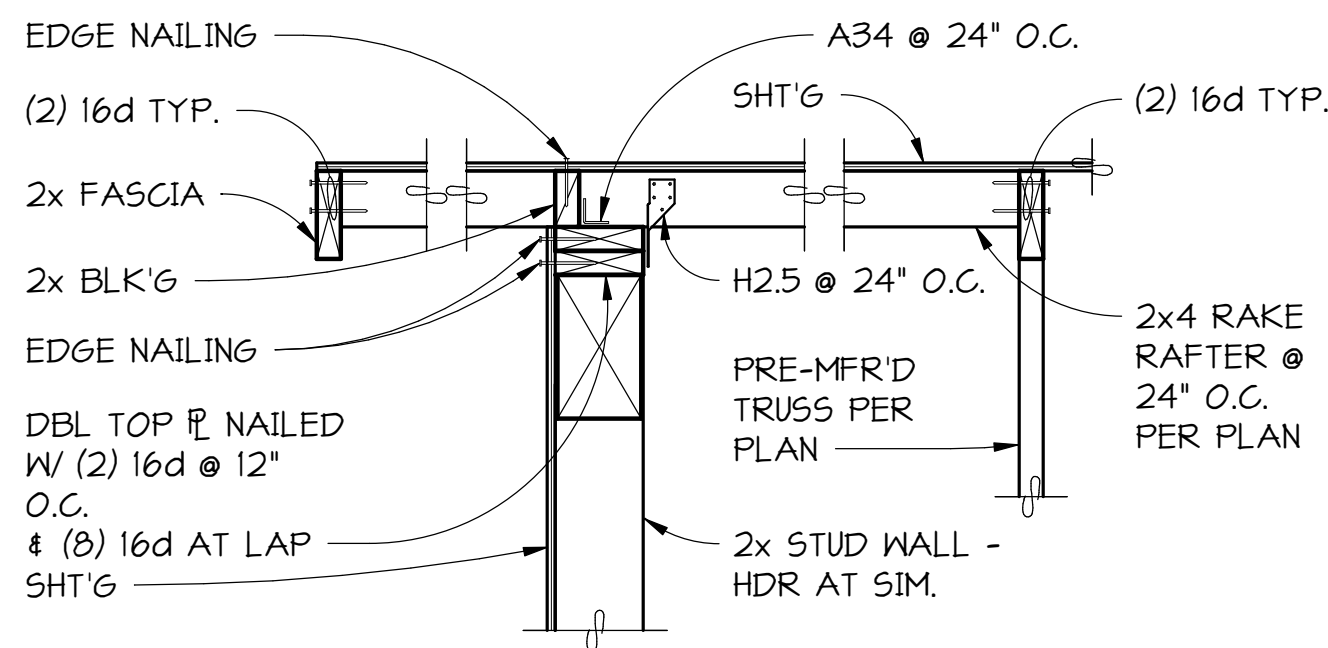


4 SECTION  
5303 NO SCALE



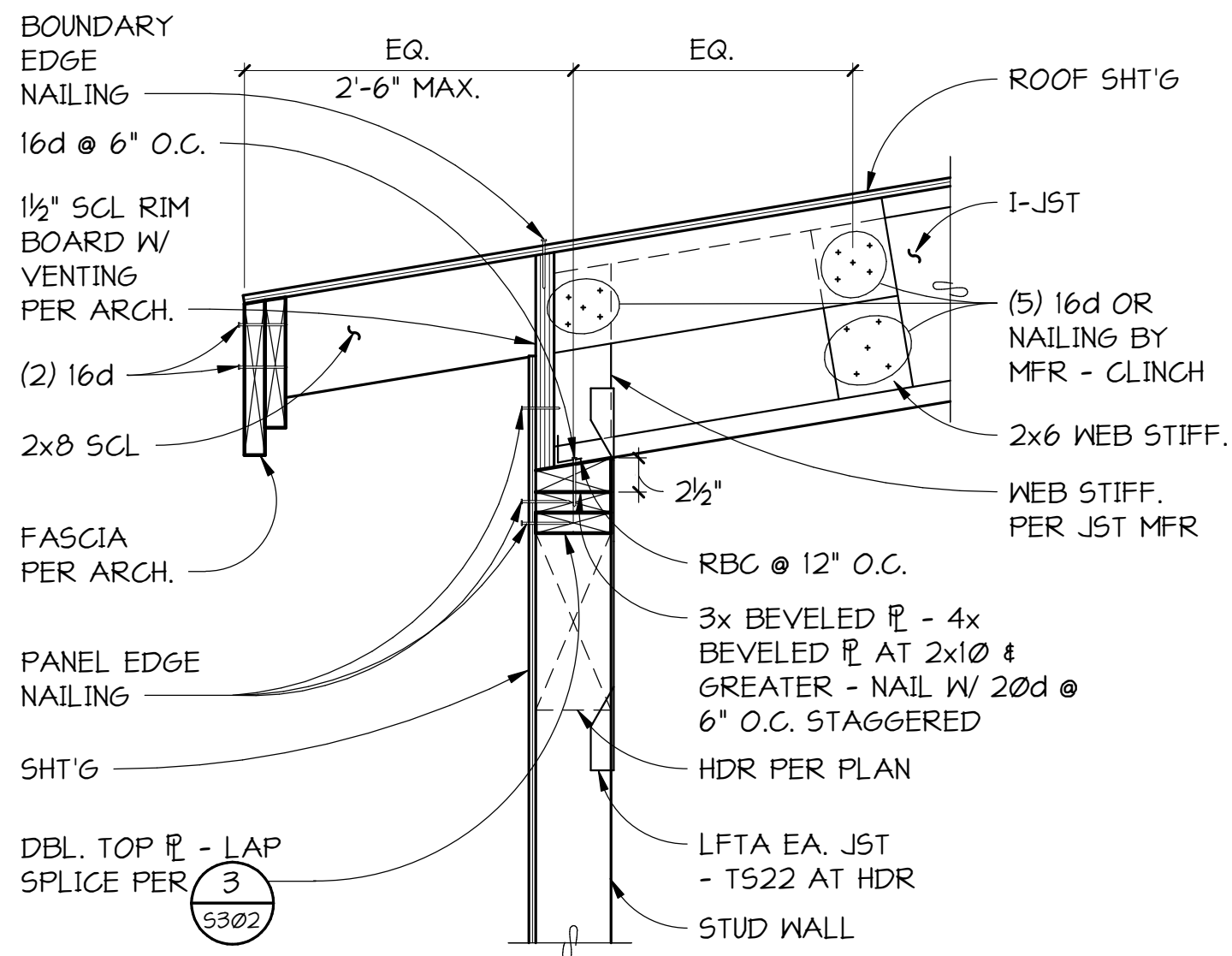
TYPICAL TRUSS TO STUD WALL CONNECTION

5 SECTION  
5303 1" = 1'-0"



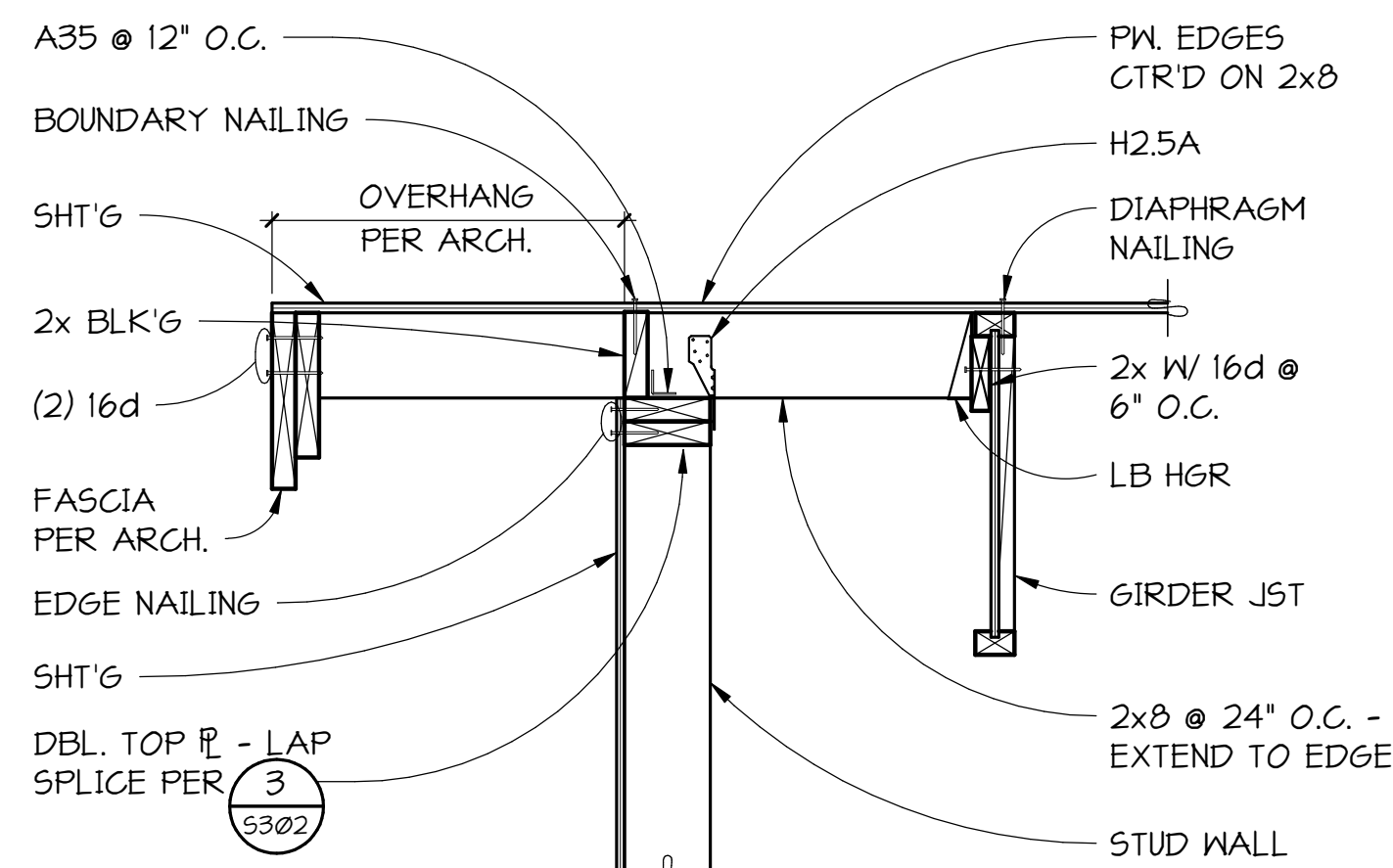
TYPICAL 2x RAKE AT STUD WALL/TRUSS

6 SECTION  
5303 1" = 1'-0"



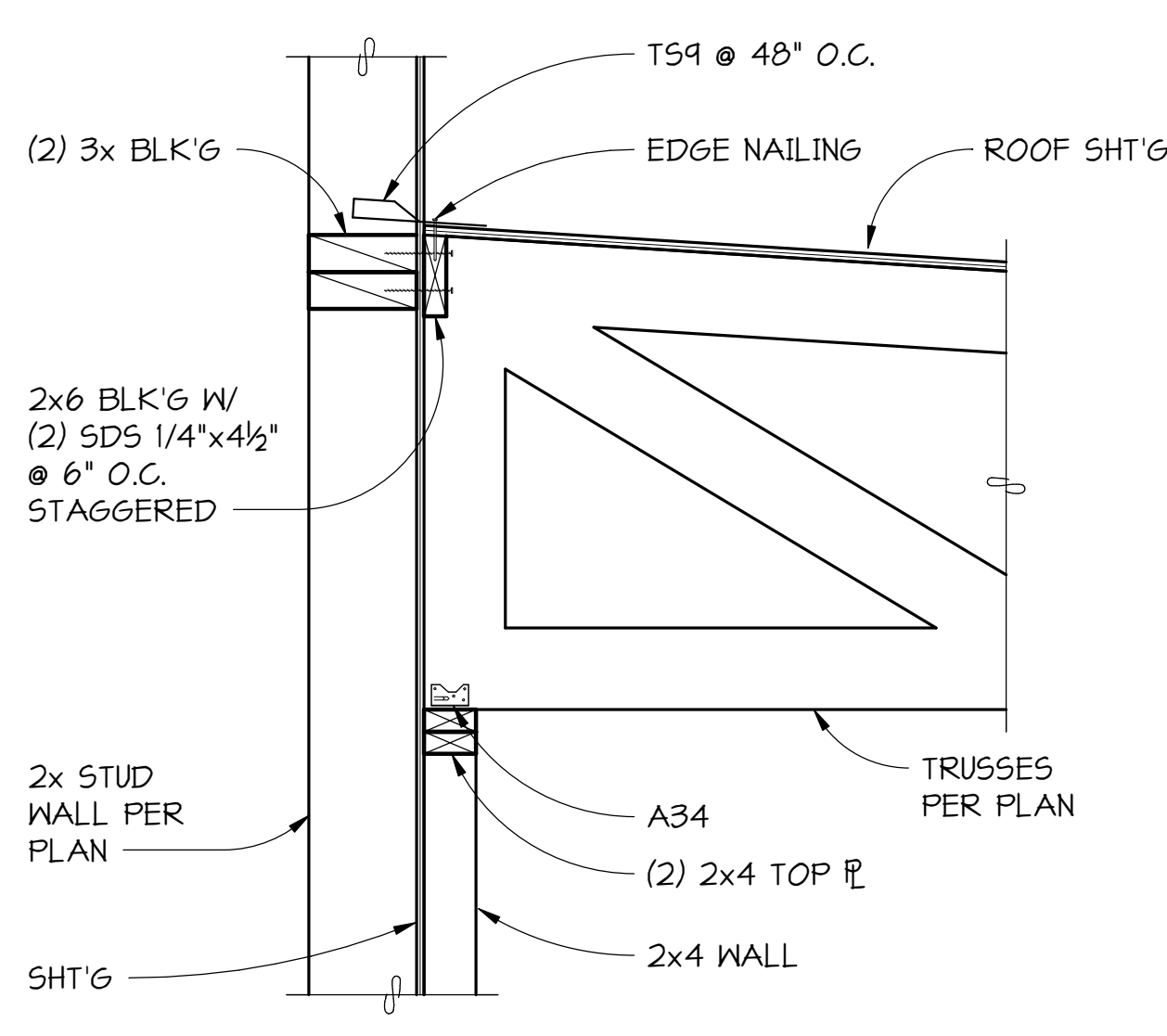
TYPICAL I-JOIST TO EXTERIOR WALL CONNECTION

7 SECTION  
5303 NO SCALE



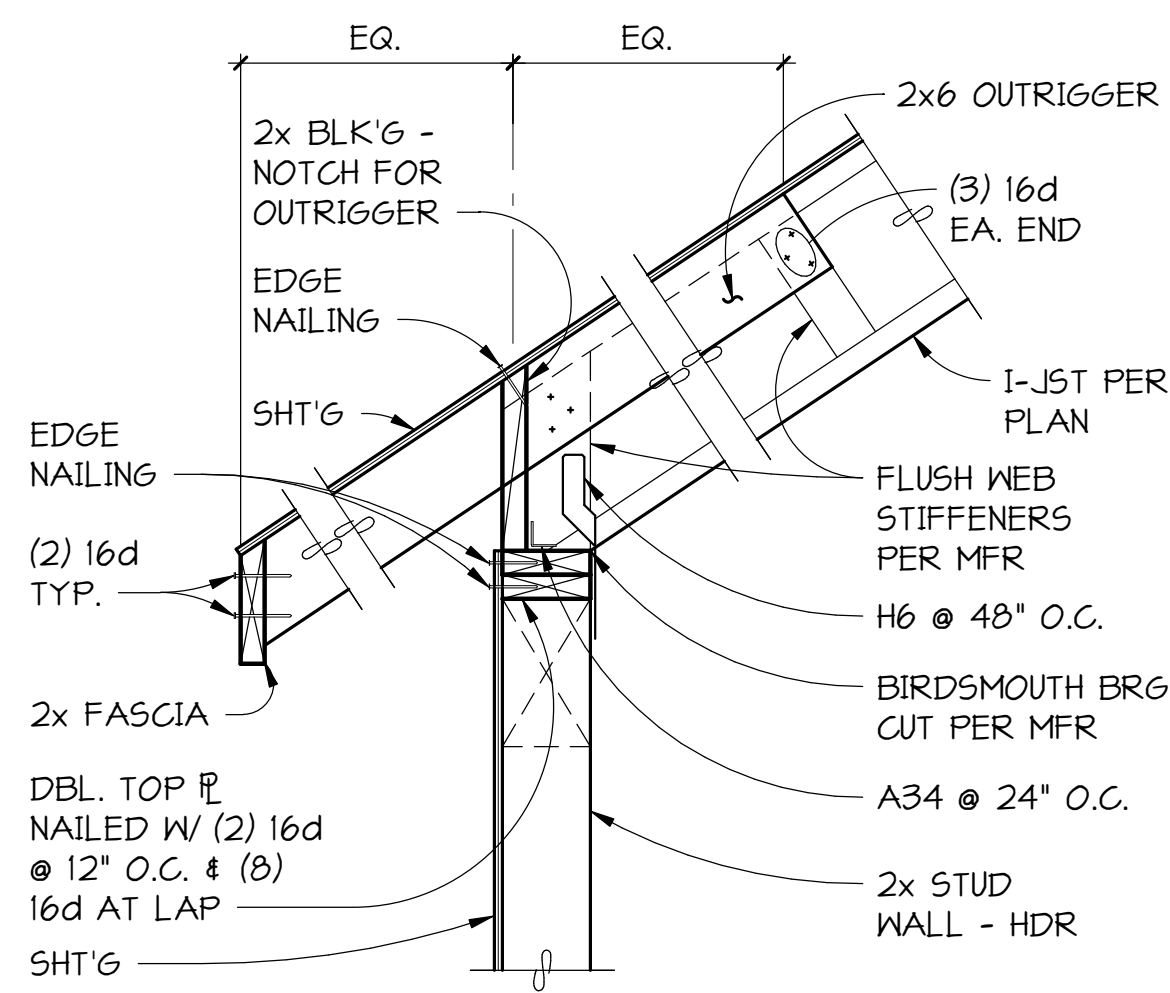
TYPICAL AT I-JOIST PARALLEL TO EXTERIOR WALL

8 SECTION  
5303 NO SCALE



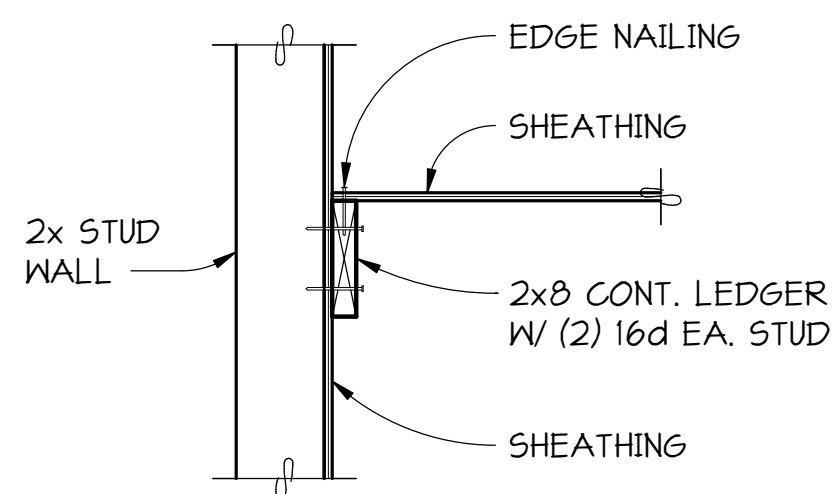
TYPICAL I-JOIST PARALLEL TO EXTERIOR WALL

9 SECTION  
5303 NO SCALE

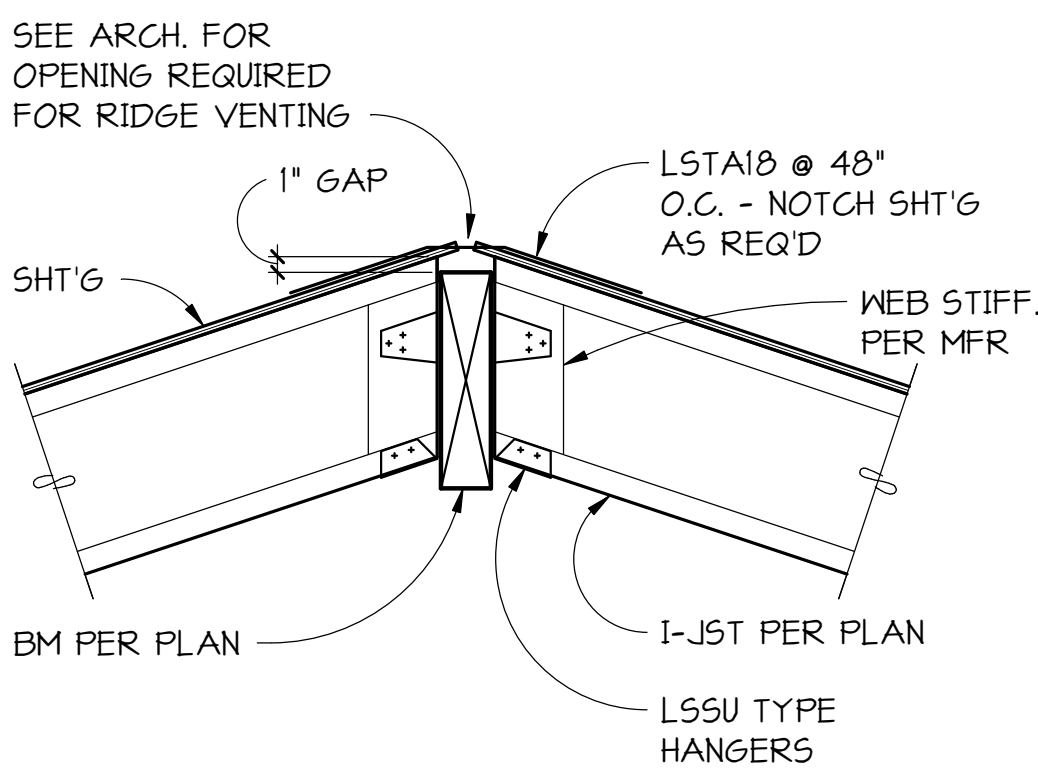


I-JOIST BEARING AT STUD WALL

10 SECTION  
5303 1" = 1'-0"

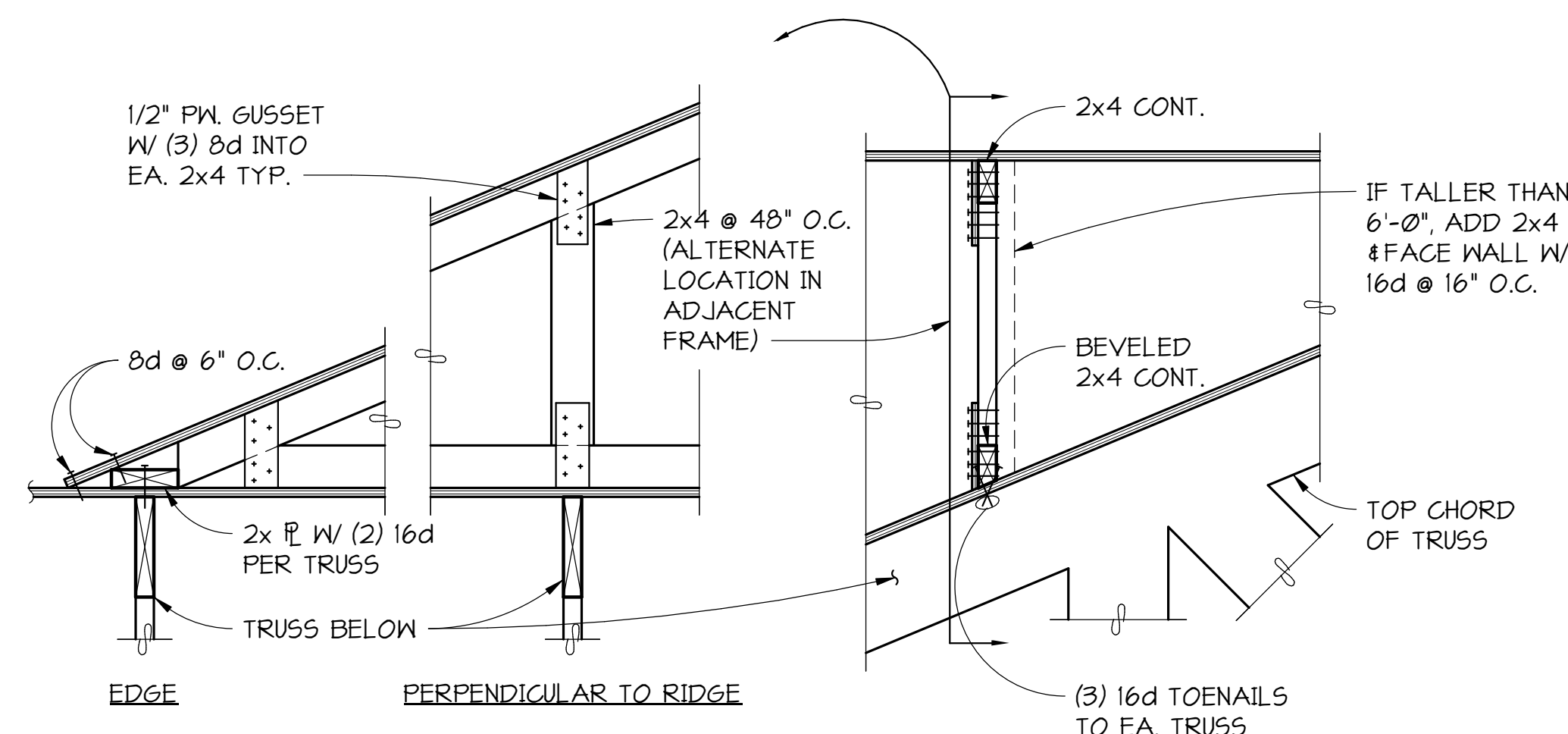


11 SECTION  
5303 1" = 1'-0"



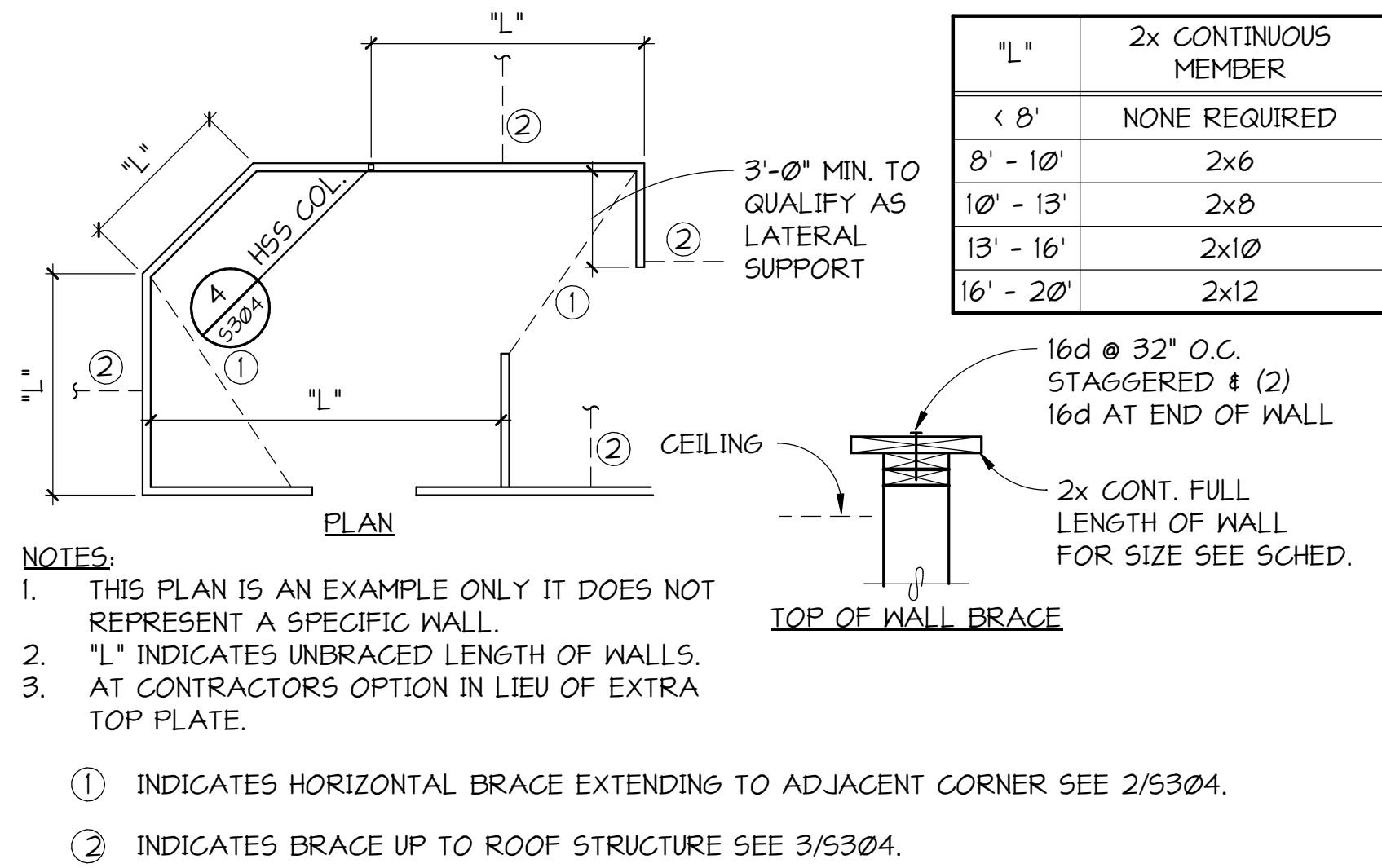
RIDGE BEAM

12 SECTION  
5303 1" = 1'-0"



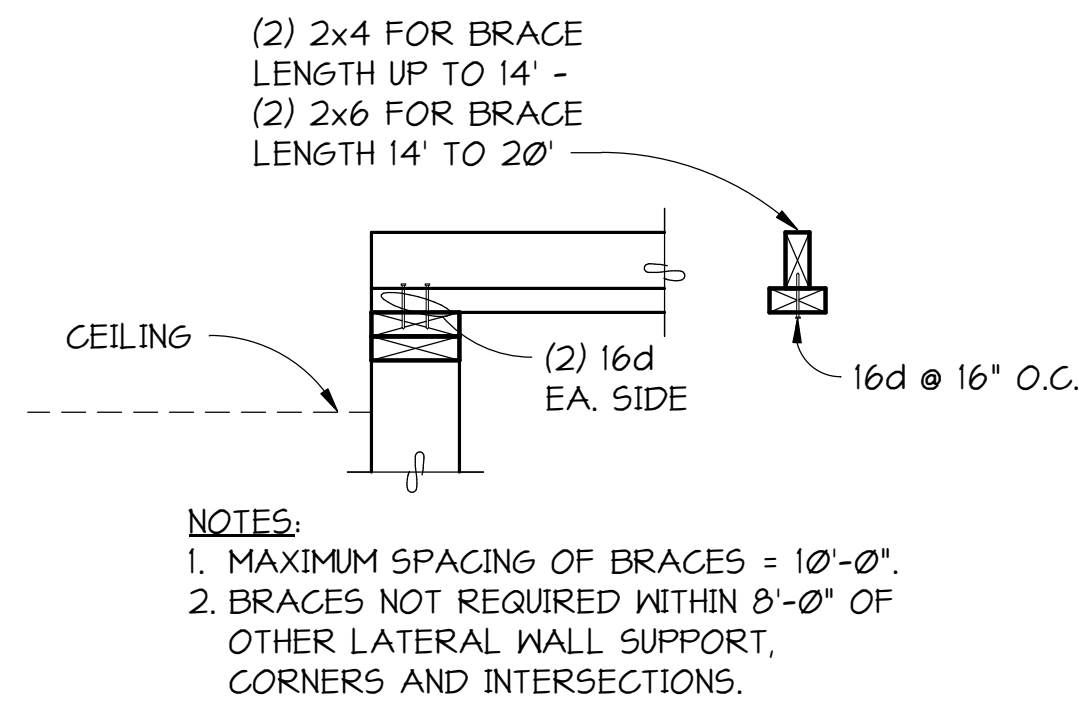
TYPICAL OVERLAY FRAMING

13 SECTION  
5303 NO SCALE



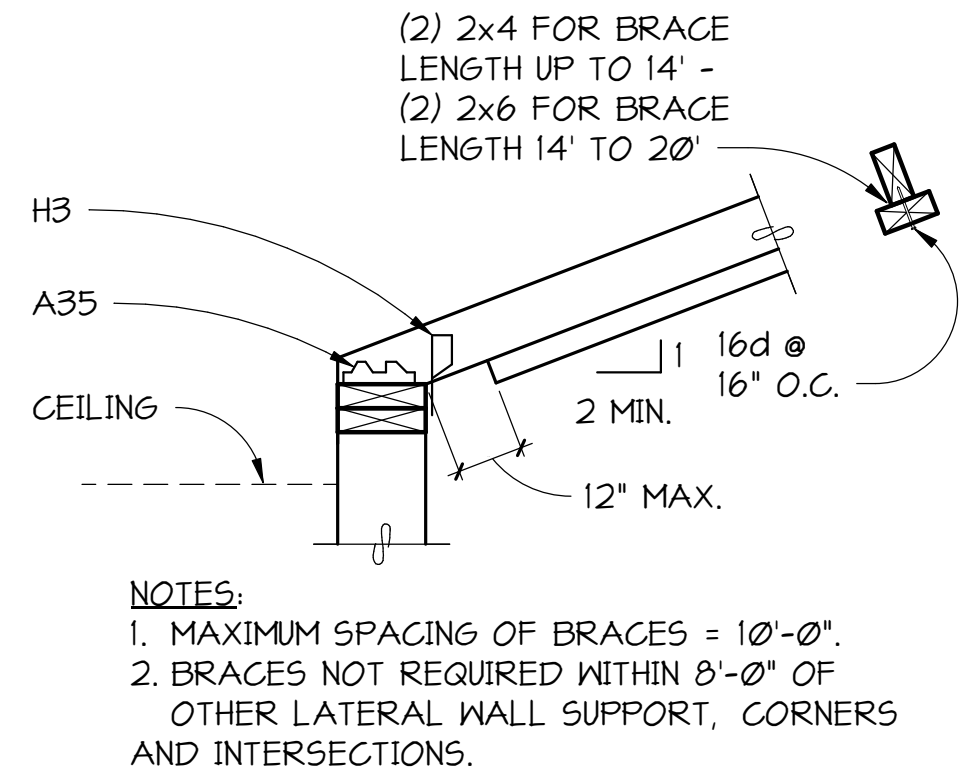
TYPICAL LATERAL SUPPORT FOR INTERIOR NON-BEARING WALLS NOT EXTENDING TO STRUCTURE

1  
5304  
DETAIL  
NO SCALE



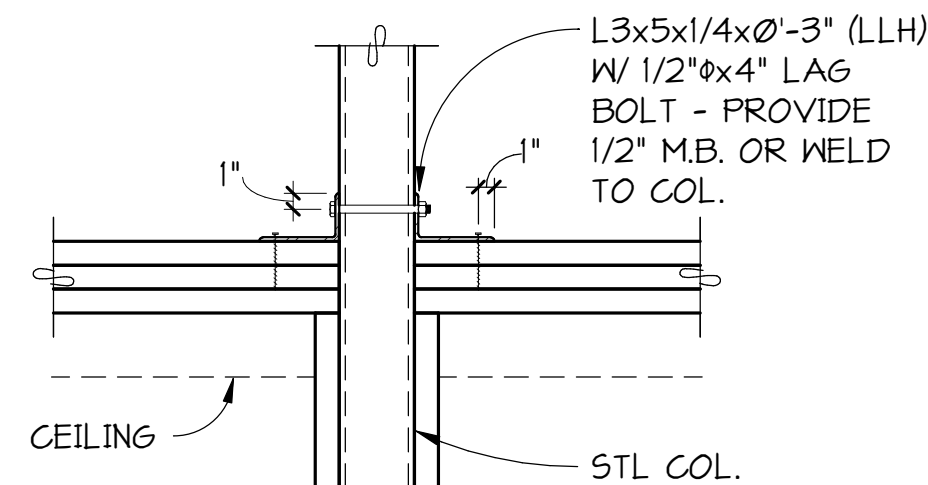
TYPICAL TOP OF WALL BRACE (HORIZONTAL)

2  
5304  
SECTION  
NO SCALE



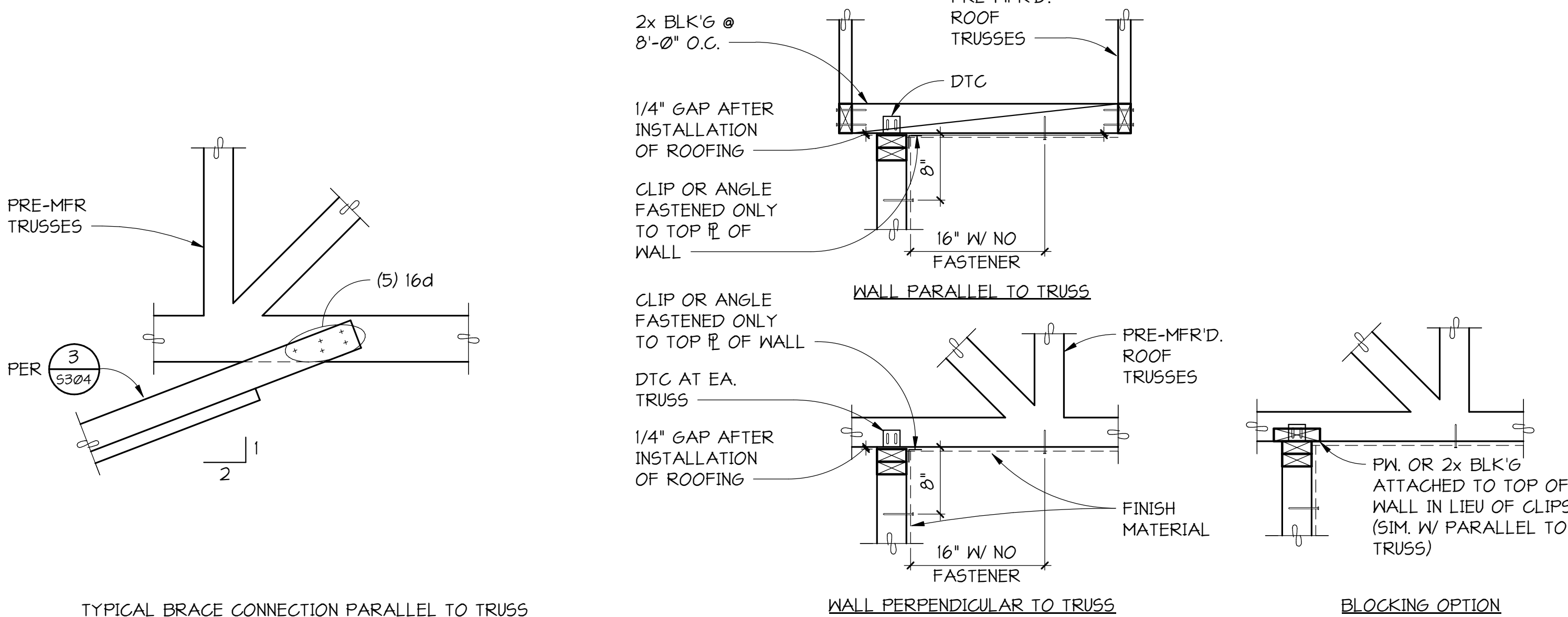
TYPICAL TOP OF WALL BRACE UP TO STRUCTURE

3  
5304  
SECTION  
NO SCALE



TYPICAL WALL BRACE AT HOLLOW STRUCTURAL STEEL COLUMN

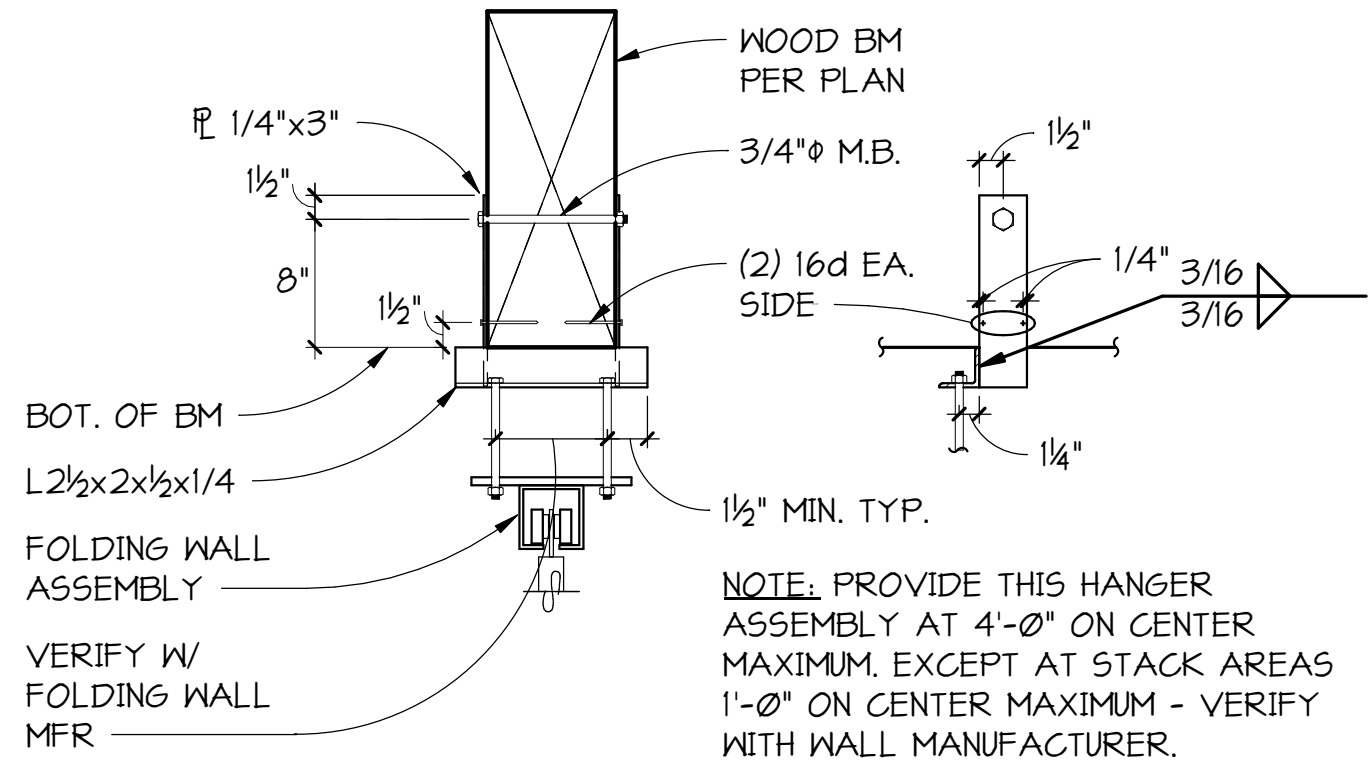
4  
5304  
SECTION  
NO SCALE



TYPICAL BRACE CONNECTION PARALLEL TO TRUSS

5  
5304  
SECTION  
NO SCALE

6  
5304  
SECTION  
NO SCALE



TYPICAL FOLDING WALL SUPPORT AT WOOD BEAM

7  
5304  
SECTION  
NO SCALE

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