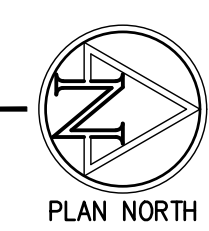


FOUNDATION PLAN

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

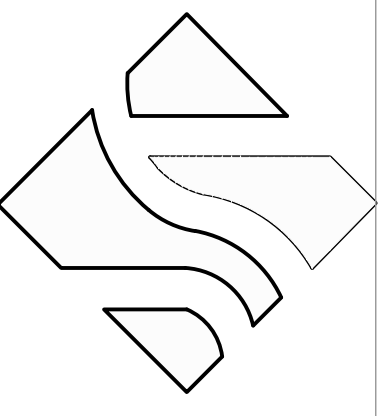


PLAN NOTES

- ELEVATIONS (+), ARE FROM NOMINAL FIRST FLOOR ELEV (+0'-0"), SEE CIVIL DRAWINGS.
- SEE S4.1 FOR GENERAL NOTES, S4.2 FOR SPECIAL INSPECTIONS, AND S4.3 FOR SCHEDULES.
- SEE ARCH DWGS FOR ALL DIMENSIONS NOT SHOWN. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES IMMEDIATELY.
- *WSW24x12* INDICATES SIMPSON 'STRONG-WALL' WOOD SHEAR WALL. SEE SS.1 FOR DETAILS.
- TOP OF FOOTING ELEVATION = -2'-0" UNO
- TOP OF SLAB ELEVATION = +0'-0" UNO
- TOP OF CONCRETE WALL ELEVATION = +0'-0" UNO
- TOP OF CMU WALL ELEVATION = VARIES, SEE DETAILS AND ARCH DRAWINGS
- SEE ARCH, MEP & CIVIL DRAWINGS FOR SLAB SLOPES, DEPRESSIONS, FLOOR DRAINS, FLOOR BOXES AND OTHER SLAB EMBEDDED ITEMS NOT SHOWN HERE.
- SEE CIVIL DRAWINGS FOR EXTERIOR WALKS, CURBS AND OTHER PAVEMENT.

ISSUE DATE:	08-21-2017
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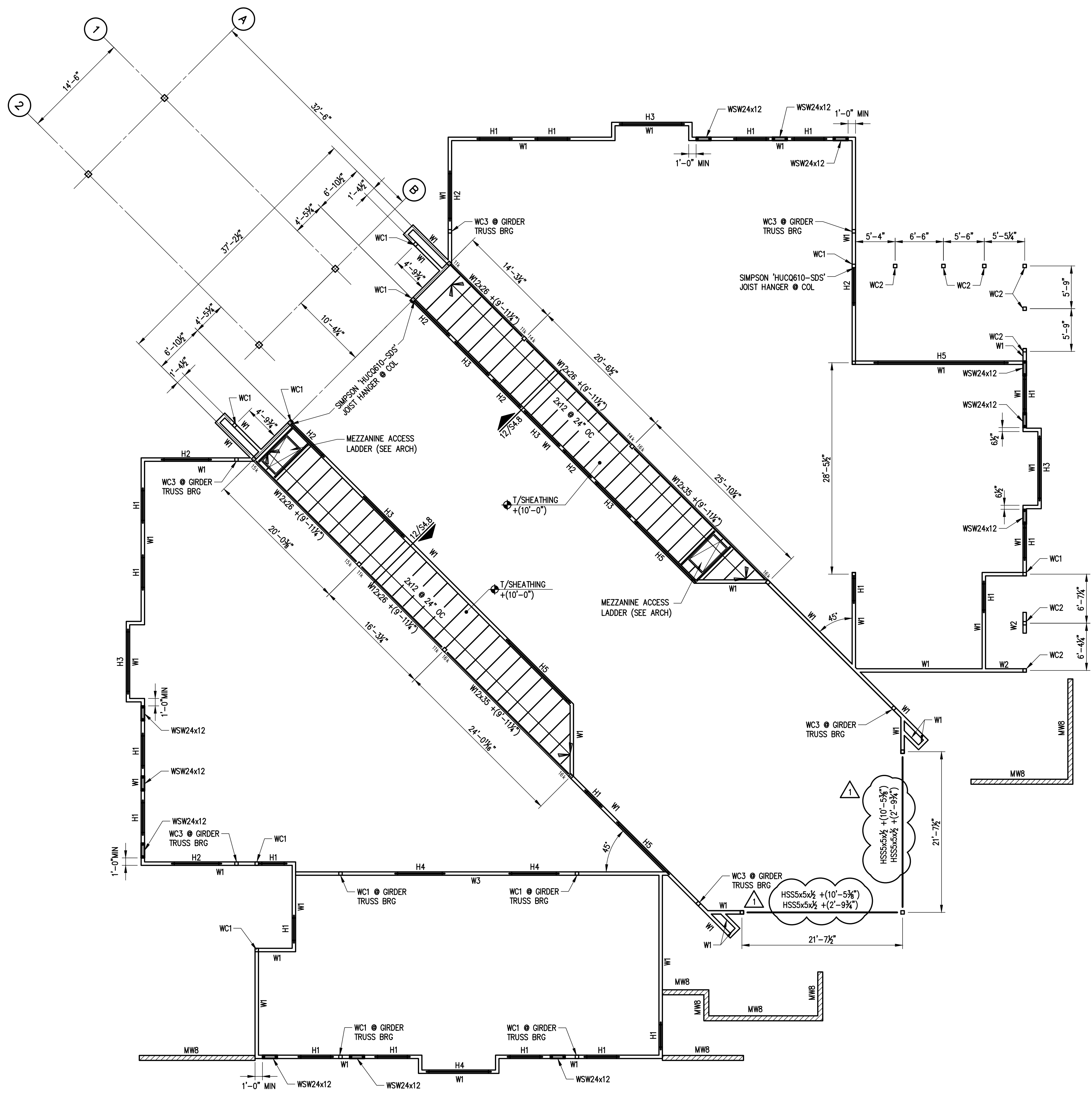
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SCHEMATIC DESIGN
 NOVI, MI

SHEET NO.
S1.1
 JOB NUMBER: 16238

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WALL & MEZZANINE FRAMING PLAN

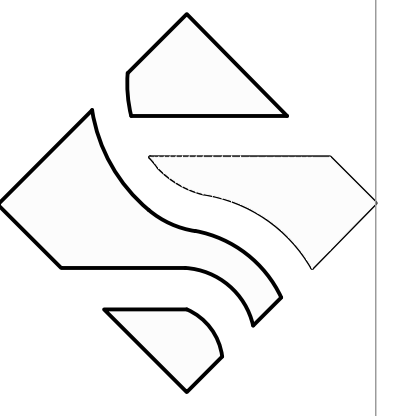
SCALE: 1/4" = 1'-0"



- PLAN NOTES**
- ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV +1(0'-0"). SEE CIVIL DRAWINGS FOR ELEVATION WITH RESPECT TO SEA LEVEL.
 - SEE S4.1 FOR GENERAL NOTES, S4.2 FOR SPECIAL INSPECTIONS, AND S4.3 FOR SCHEDULES.
 - SEE ARCH DWGS FOR DIMENSIONS NOT SHOWN.
 - SEE ARCH DWGS FOR OPENING SIZES, LOCATIONS AND ELEVATIONS.
 - *WSW24x12* DENOTES SIMPSON 'STRONG-WALL' WOOD SHEAR WALL. SEE SS.1 FOR DETAILS.

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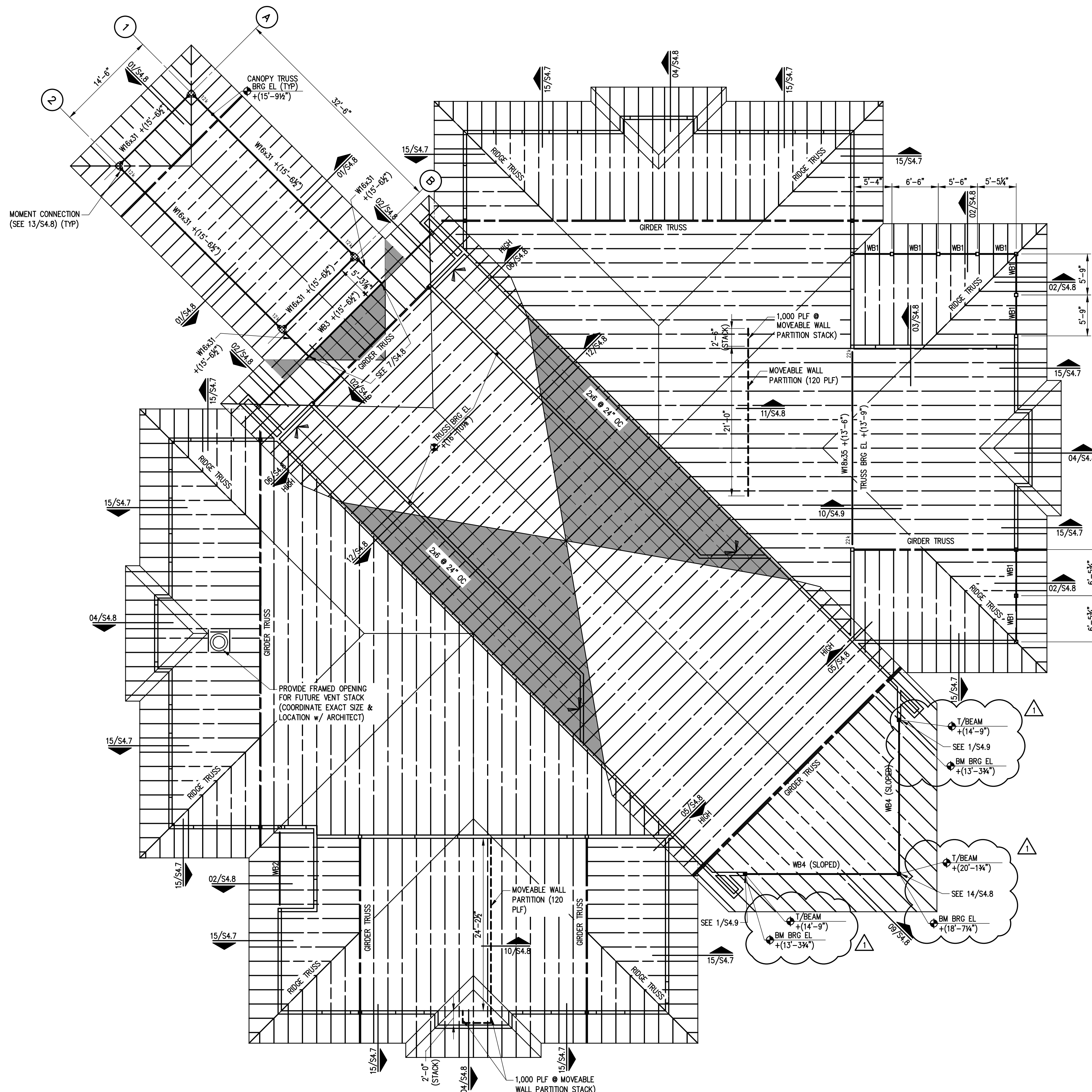
SHEET NO.
S2.1

JOB NUMBER: 16238

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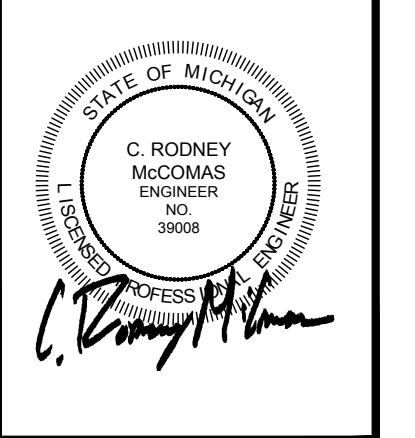
ROOF FRAMING PLAN

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

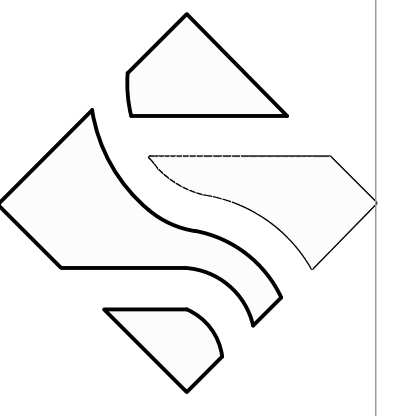


- PLAN NOTES**
- ELEVATIONS ±, ARE FROM NOMINAL FIRST FLOOR ELEV + (0'-0"), SEE CIVIL DRAWINGS.
 - SEE S4.1 FOR GENERAL NOTES, S4.2 FOR SPECIAL INSPECTIONS, AND S4.3 FOR SCHEDULES.
 - SEE ARCH DWGS FOR DIMENSIONS NOT SHOWN.
 - COORDINATE DECK OPENINGS - EXACT SIZE AND LOCATION, WITH MECH CONTRACTOR AND EQUIPMENT SUPPLIER.
 - PLYWOOD ROOF DECK TO BE 5/8" APA RATED 40/20 SHEATHING w/ PANEL CLIPS SEE TYPICAL NAILING PATTERN DETAIL.
 - (SHADED AREA) INDICATES PORTION OF ROOF w/ OVERBUILD TRUSS FRAMING (SEE 8/S4.8).
 - ROOF FRAMING SHOWN REPRESENTS PREFABRICATED METAL PLATE CONNECTED WOOD ROOF TRUSSES (UNO). MAXIMUM TRUSS SPACING = 24". TRUSS BRG EL. = +12'-0" UNO

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ABBREVIATIONS LIST

Table with 2 columns: Abbreviation and Full Name. Includes terms like ANCHOR RODS, AMERICAN CONCRETE INSTITUTE, ADHESIVE, etc.

ELEVATION TOP AND BOTTOM OF LIST

Table with 2 columns: Abbreviation and Description. Includes terms like ELEVATION, TOP OF, BOTTOM OF, etc.

SYMBOLS

Table with 2 columns: Symbol and Description. Includes symbols for DIAMETER, DEGREE, ELEVATION, etc.

SAWN LUMBER NOTES

- W1. Size, species and grade for sawn lumber shall be as follows. All lumber shall be grade-stamped:
W2. All wood, connections, accessories, and erection shall be in conformance with the current edition of NFPA National Design Specification.
W3. All connectors shall be Simpson Strong-Tie, galvanized, unless otherwise approved by the Engineer of Record.

ENGINEERED WOOD NOTES

- EW1. All manufactured engineered wood listed as been designed using product data from Weyerhaeuser Corporation. Engineered wood members supplied by other manufacturer's shall meet or exceed the criteria for the designated Weyerhaeuser Corporation product for the span, spacing, and loads indicated in the construction documents.
EW2. All properties listed are for dry-use conditions.
EW3. All connectors shall be manufactured by Simpson Strong-Tie Company.

Table with 2 columns: Note ID and Description. Includes PSL1. Manufactured Parallel Strand Lumber designated as PSL shall be supplied with the following minimum material properties...

OWT1. Manufactured Wood Open Web Trusses designated as Open Web Trusses shall be supplied to meet the minimum loading and depth requirements as indicated on the drawings, and the following:
Roof Maximum Total Deflection Span / 240
Roof Maximum Live Deflection Span / 360

WOOD STRUCTURAL PANEL NOTES

- WS1. All wood structural panels shall be plywood conforming to DOC PS-1 or DOC PS-2, or oriented-strand-board (OSB) conforming to DOC PS-2. Sheathing shall meet the following minimum requirements, unless noted otherwise:
Roof: 19/32", Exposure 1, Structural 1, Span Rating 40/20, Square Edge, Nailed
W2. Roof structural panel joints shall be staggered. Provide panel clips for all roof sheathing.
W3. All structural panels shall have long dimension perpendicular to supports. Provide 1/8" gap for all sheathing joints.

MANUFACTURED WOOD TRUSSES NOTES

- WT1. Shop-fabricated, metal-plate-connected wood roof trusses shall be designed for the following gravity loads (allowable stress design), in addition to other loads indicated:
Top Chord Dead & Top Chord Live See General Notes
Bottom Chord Dead 10 psf (Local Load, not added to Top Chord)
Wind: Net Uplift 15 psf
Wind: On Gable End Verticals 20 psf

SHALLOW FOUNDATION AND SLAB ON GRADE NOTES

- SF1. Soil to be stripped, compacted and tested in accordance with the recommendations of the soils engineer and project specifications.
SF2. Footings shall be placed on firm, undisturbed soil or on engineered fill. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940, with at least 90 percent passing a 1-1/2-inch sieve and not more than 12 percent passing a No. 200 sieve.
SF3. Slabs shall be placed on compacted, free-draining, frost-free drainage course. Drainage Course: Narrowly graded mixture of washed crushed stone, or crushed or uncured gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch sieve and 0 to 5 percent passing a No. 8 sieve.

CAST-IN-PLACE CONCRETE NOTES

- RC1. All concrete shall have the following 28 day compressive strengths:
STRENGTH LOCATION
3000 psi-0% AE All foundations and footings
4000 psi-6% AE Exterior slabs, piers, walls, columns, grade beams and concrete exposed to freezing
4000 psi-0% AE Interior slabs, fill for metal deck and all other interior concrete
RC2. All reinforcing shall conform to the following concrete cover:
COVER LOCATION
3" Foundations & Footings: All surfaces; Exterior Slabs: Bottom; Grade Beams & Trench Footings: All surfaces; All concrete cast against soil
2" Exterior Walls, All Piers & All Pilasters: All surfaces; Exterior Slabs: Top; All exterior concrete
1 1/2" Interior beams, columns & walls: All surfaces; All concrete not exposed to weather or in contact with ground
3/4" Interior slabs & Walls

MASONRY AND REINFORCED MASONRY NOTES

- M1. Minimum 28 day compressive strength of concrete masonry units shall be 2800 p.s.i. based on net area of the unit. Specified design compressive strength of masonry shall be fm = 2000 p.s.i. All units for exterior walls, load-bearing walls and shear walls shall be normal weight block.
M2. All mortar shall be Type S. No admixtures may be used unless approved by architect/engineer. Mortar shall not be used for grouting cores or filling bond beams.
M3. All block shall be laid in a running bond pattern.

STRUCTURAL STEEL NOTES

- SS1. All structural steel shall conform to the following:
W Shapes ASTM A992, Grade 50
Angles, Channels, Plates, Bars ASTM A36 (Fy=36 ksi)
HSS Tubes ASTM A500, Grade B (Fy=46 ksi)
HSS Pipes ASTM A500, Grade B (Fy=42 ksi)
Anchor Rods ASTM F1554, Grade 36

GENERAL NOTES

- G1. BUILDING CODES: International Building Code 2012
Model Code: Michigan Building Code 2014
Local Code Standard: ASCE 7-10
Steel Standard: AISC 360-10, ASD 14th Edition
Concrete Standard: ACI 318-11
Masonry Standard: ACI 530-11, ASD
Wood Standard: ANSI/AWC NDS-2012, AWC SDPWS-2008
Risk Category: II, Normal Risk
Exposure Category: C, Open terrain
G2. ROOF DESIGN LOADS:
Location Dead Live Snow
All Roofs 25 psf 20 psf 25 psf + Drift
G3. FLOOR DESIGN LOADS:
Location Dead Live Partition
All Areas 50 psf 100 psf N/A
G4. SOIL DESIGN CRITERIA
Report by: McDowell & Associates, Dated 02-27-2017
Allowable Net Bearing Pressure:
Spread Footings: 2500 psf
Wall Footings: 2500 psf
Soil Density: 110 pcf
Frost Depth: 42" inches below final grade
Lateral Earth Pressures:
Active: 36 psf
At-Rest: 55 psf
Passive: 330 psf
Groundwater:
Design Elev. Below Slab: 6 ft
Saturated Soil Density: 125 pcf
G5. SNOW DESIGN CRITERIA
Ground Snow Load: 25 psf
Design Roof Snow Load: 25 psf
Importance Factor: 1.0
Exposure Factor: 1.0 Partially Exposed
Thermal Factor: 1.0 Heated Structure
G6. WIND DESIGN CRITERIA
Wind Speed: 115 mph
ASD Wind Speed: 90 mph
Enclosure Classification: Enclosed
Gust Factor: 0.85
Internal Pressure Coef.: 0.18
G7. SEISMIC DESIGN CRITERIA
Importance Factor: 1.0
Mapped Spectral Response, Ss: 0.089
Mapped Spectral Response, S1: 0.046
Site Class: D
Design Spectral Response, Sds: 0.095
Design Spectral Response, Sd1: 0.074
Seismic Design Category, SDC: B
Overstrength Factor, Omega: 3
Seismic Response Coef., Cs: 0.015
Response Modification R: 6.5
Unfactored Base Shear, V: 1.5% W
Equivalent Lateral Force Analysis
Seismic Force Resisting System: A, Bearing Wall Systems
G8. Reactions and forces indicated are unfactored. Allowable Strength Design (ASD) loads.
G9. If drawings and specifications are in conflict, the most stringent restrictions and requirements shall govern. Contractor shall bring all discrepancies to the attention of the engineer immediately.
G10. Verify all existing conditions prior to any construction or fabrication. If different than shown, notify engineer/architect immediately for modification of drawings.
G11. All contractors are required to coordinate their work with all disciplines to avoid conflicts. The architectural, mechanical, electrical and plumbing aspects are not in the scope of these drawings. Therefore, all required materials and work may not be indicated. It is the contractor's responsibility to coordinate these drawings with all other construction documents. Refer to architectural drawings for all dimensions not shown on these drawings. Locations, sizes and numbers of all openings may not be completely indicated in the structural drawings. The respective contractor shall verify their work with all other disciplines.
G12. The contract documents represent the structure only. They do not indicate the method of construction. The contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but not limited to, bracing, shoring, underpinning, etc. The Engineer of Record is not responsible for the contractor's means, methods, techniques, sequences or safety procedures during construction.
G13. Notes and details shall take precedence over general structural notes. Where no details or sections are shown, construction shall conform to similar work on the project. Typical sections and details may not be cut on the plans, but apply unless noted otherwise.
G14. Provisions for future expansion:
Vertical: None
Horizontal: None

DELEGATED DESIGN REQUIREMENTS

- SSE1.A Specialty Structural Engineer (SSE), registered in the state of the project, shall be responsible for the structural design of the following products and systems conforming with specific performance and design criteria indicated.
1. Structural Steel Connections, except as shown on drawings. AISC Option 2 (Detailer): Simple shear connections. AISC Option 3 (SSE): All other connections not shown.
2. Shop Fabricated Wood trusses, wood girders, wood bracing and accessories.
3. Stairs & Railings

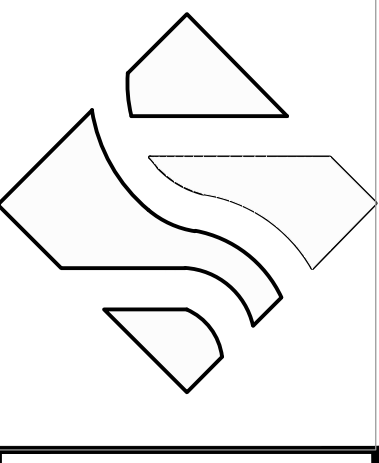
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REVISION:
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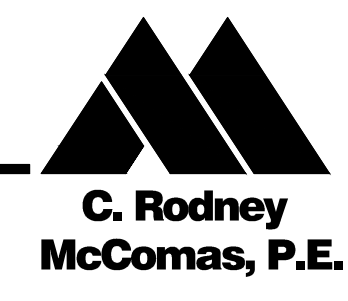
C. RODNEY MCCOMAS ENGINEER NO. 38006
Professional Engineer Seal

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SHEET NO.
S4.1
JOB NUMBER: 16238

STATEMENT OF SPECIAL INSPECTIONS - MASONRY			
Item	Continuous	Periodic	Detailed Instructions and Frequencies
MASONRY CONSTRUCTION (IBC 1705.4)			
PRIOR TO CONSTRUCTION (ARTICLE 1.15, TMS-602/ACI 530.1-11):			
Review material certificates, mix designs, test results and construction procedures		X	Verify that materials conform to the requirements of the approved construction documents. Mix design, test results, material certificates, and construction procedures should be submitted for review. Mortar mix designs shall conform to ASTM C 270 while grout shall conform to ASTM C 476. Material certificates shall be provided for the following: reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction shall be reviewed.
AS CONSTRUCTION BEGINS (TABLE 1.19.2, TMS-602/ACI 530.1-11):			
Proportions of site-prepared mortar		X	Verify that mortar is of the type and color specified on the construction documents, that it conforms to ASTM C 270, and that it is mixed in accordance with Article 2.6 A of TMS-602/ACI 530.1-11.
Construction of mortar joints		X	Verify that mortar joints comply with Article 3.3 B of TMS-602/ACI 530.1-11.
Location of reinforcement, connectors, and prestressing tendons and anchorages		X	Verify that reinforcement is placed in accordance with Article 3.4 of TMS-602/ACI 530.1-11. Prestressing tendons shall be placed per Article 3.6 A.
PRIOR TO GROUTING (TABLE 1.19.2, TMS-602/ACI 530.1-11):			
Grout space		X	Verify that grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and that cleanouts are provided per Article 3.2 D and 3.2 F of TMS-602/ACI 530.1-11. <i>Continuous inspection is required for Risk Category IV buildings.</i>
Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages		X	Verify that reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors comply with the approved construction documents and Section 1.6 of TMS 402/ACI 530-11.
Placement of reinforcement, connectors, and prestressing tendons and anchorages		X	Verify that reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors are installed in accordance with the approved construction documents and Articles 3.2 E, 3.4, and 3.6 A of TMS 602/ACI 530.1-11. <i>Continuous inspection is required for Risk Category IV buildings.</i>
Proportions of site-prepared grout and prestressing grout for bonded tendons		X	Verify that grout is proportioned per ASTM C 476 and has a slump between 8-11 inches. Self-consolidated grout shall not be proportioned onsite. (see Articles 2.6 B and 2.4 G.1.b of TMS 602/ACI 530.1-11. <i>Continuous inspection is required for Risk Category IV buildings.</i>
Construction of mortar joints		X	Verify that mortar joints are placed in accordance with Article 3.3 B of TMS 602/ACI 530.1-11.
DURING MASONRY CONSTRUCTION:			
Size and location of structural elements		X	Verify the locations of structural elements with respect to the approved plans and confirm that tolerances meet the requirements of Article 3.3 F of TMS 602/ACI 530.1-11.
Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.		X	Verify that correct anchorages and connections are provided per the approved plans and Sections 1.16.4.3 and 1.17.1 of TMS 402/ACI 530-11. <i>Continuous inspection is required for Risk Category IV buildings.</i>
Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F).		X	Verify that cold-weather construction is performed in accordance with Article 1.8 C of TMS 602/ACI 530.1-11 and hot weather construction per Article 1.8 D of TMS 602/ACI 530.1-11.
Observation of grout specimens, mortar specimens, and/or prisms		X	Confirm that specimens/prisms are performed as required by Article 1.4 of TMS-602/ACI 530.1-11. <i>Continuous inspection is required for Risk Category IV buildings.</i>
MINIMUM TESTING:			
Verification of Slump Flow and Visual Stability Index (VSI) for self-consolidating grout		X	Compressive strength tests should be performed in accordance with ASTM C 1019 for slump flow and ASTM C 1611 for VSI.
Verification of proportions of materials in premixed or pre-blended mortar and grout		X	Verify that proportions for mortar meet ASTM C 270 and proportions for grout meet ASTM C 476. This applies to <i>Risk Category IV buildings only.</i>

STATEMENT OF SPECIAL INSPECTIONS - STRUCTURAL STEEL			
Item	Continuous	Periodic	Detailed Instructions and Frequencies
STRUCTURAL STEEL (IBC 1705.2.1, 1705.11.1 & 1705.12.2)			
PRIOR TO WELDING (TABLE N5.4-1, AISC 360-10):			
Verify welding procedures (WPS) and consumable certificates		X	
Material identification		X	Verify type and grade of material.
Welder identification		X	A system shall be maintained by which a welder who has welded a joint or member can be identified.
Fit-up groove welds		X	Verify joint preparation, dimensions, cleanliness, tacking, and backing.
Access holes		X	Verify configuration and finish.
Fit-up of fillet welds		X	Verify alignment, gaps at root, cleanliness of steel surfaces, and tack weld quality and location.
DURING WELDING (TABLE N5.4-2, AISC 360-10):			
Use of qualified welders		X	Verify that welders are appropriately qualified.
Control and handling of welding consumables		X	Verify packaging and exposure control.
Cracked tack welds		X	Verify that welding does not occur over cracked tack welds.
Environmental conditions		X	Verify wind speed is within limits as well as precipitation and temperature.
WPS followed		X	Verify items such as settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position.
Welding techniques		X	Verify interpass and final cleaning, each pass is within profile limitations, and quality of each pass.
AFTER WELDING (TABLE N5.4-3, AISC 360-10):			
Welds cleaned		X	Verify that welds have been properly cleaned.
Size, length, and location of welds		X	
Welds meet visual acceptance criteria		X	
Arc strikes		X	
k-area		X	
Backing & weld tabs removed		X	
Repair activities		X	
Document acceptance or rejection of welded joint/member		X	
NONDESTRUCTIVE TESTING (SECTION N5.5, AISC 360-10):			
CJP welds (Risk Cat. I)		X	Ultrasonic testing shall be performed on 10% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16-inch thick or greater. Testing rate must be increased if > 5% of welds tested have unacceptable defects.
CJP welds (Risk Cat. III or IV)		X	A reduction in the rate of ultrasonic testing is allowed per Section N5.5e.
Access holes (flange > 2")		X	
Welded joints subject to fatigue		X	
PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-10): (Not required if only snug-tight joints are specified [per Section N5.6(1) of AISC 360-10].)			
Certifications of fasteners		X	
Fasteners marked		X	Verify that fasteners have been marked in accordance with ASTM requirements.
Proper fasteners for joint		X	Verify grade, type, and bolt length if threads are excluded from the shear plane.
Proper bolting procedure		X	Verify proper procedure is used for the joint detail.
Connecting elements		X	Verify appropriate faying surface condition and hole preparation, if specified, meet requirements.
Pre-installation verification testing		X	Observe and document verification testing by installation personnel for fastener assemblies and methods used.
Proper storage		X	Verify proper storage of bolts, nuts, washers, and other fastener components.
DURING BOLTING (TABLE N5.6-2, AISC 360-10):			
(Not required if only snug-tight joints are specified [per Section N5.6(1) of AISC 360-10].)			
(Not required for pretensioned joints using turn-of-the-nut method with match-marking, direct-tension-indicators, or twist-off type tension control method [per Section N5.6(2) of AISC 360-10].)			
Fastener assemblies		X	Verify that fastener assemblies are of suitable condition, placed in all holes, and washers are positioned as required.
Snug-tight prior to pretensioning		X	Verify that joints are brought to snug-tight condition prior to pretensioning operation.
Fastener component		X	Verify that fastener component is not turned by wrench prevented from rotating.
Pretensioned fasteners		X	Verify that fasteners are Pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges.
AFTER BOLTING (TABLE N5.6-3, AISC 360-10):			
Document acceptance or rejection of bolted connections		X	
OTHER STEEL INSPECTIONS (SECTION N5.7, AISC 360-10; Tables J8-1 & J10-1, AISC 341-10):			
Structural steel details		X	All fabricated steel or steel frames shall be inspected to verify compliance with the details shown in the construction documents, such as braces, stiffeners, member locations, and proper application of joint details at each connection.
Anchor rods and other embedments supporting structural steel		X	Shall be on the premises during the placement of anchor rods and other embedments supporting structural steel for compliance with construction documents. Verify the diameter, grade, type, and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete.

- Special Inspector Shall:**
1. Be approved by the Building Official prior to performing any duties.
 2. Provide proof of licensure as a special inspector in the state of Michigan for each type of inspection.
 3. Inspection reports are to meet the requirements of IBC 1704.2.4 and local standards.
 4. Inspection reports shall be submitted per IBC12, 1704.2, within 48 hours of performing inspections.
 5. A final inspection report shall be submitted following completion of the project documenting the types of special inspections performed and a statement indicating that the structure is in compliance with the approved construction documents and applicable codes (see IBC 1704.2.4).

STRUCTURAL OBSERVATIONS (IBC 1704.5)

Item	Proposed Frequency	Name of Structural Observer
Footings & Piers	Periodic	
Mat Foundations	N/A	
Deep Foundations	N/A	
Grade Beams	Periodic	
Concrete Walls	N/A	
Masonry Walls	Periodic	
Wood Walls	Periodic	
Steel Moment Frames	Periodic	
Steel Braced Frames	N/A	
Concrete Moment Frames	N/A	
Concrete Diaphragms	N/A	
Steel Deck Diaphragms	N/A	
Wood Diaphragms	Periodic	
Post-tensioned Deck	N/A	
Other:		
Other:		
Other:		
Other:		

Structural Observer Shall:

1. Provide proof of licensure as a licensed professional/structural engineer in the state of Michigan.
2. If structural observations are performed by individuals other than the design professional in responsible charge, they should first be approved by the Building Official.
3. At the conclusion of work a final structural observation report must be submitted to the Building Official noting any deficiencies which, to the best of the structural observer's knowledge, have not been resolved (see IBC 1704.5).

STATEMENT OF SPECIAL INSPECTIONS - SOILS & FOUNDATIONS			
Item	Continuous	Periodic	Detailed Instructions and Frequencies
SOILS CONSTRUCTION (IBC 1705.6)			
Verify subgrade is adequate to achieve design bearing capacity		X	Prior to placement of concrete.
Verify excavations extend to proper depth and material		X	Prior to placement of compacted fill or concrete.
Verify that subgrade has been appropriately prepared prior to placing compacted fill		X	Prior to placement of compacted fill.
Perform classification and testing of compacted fill materials		X	All materials shall be checked at each lift for proper classifications and gradations not less than once for each 10,000ft ² of surface area.
Verify proper materials, densities and lift thicknesses during placement and compaction.	X		

STATEMENT OF SPECIAL INSPECTIONS - CONCRETE			
Item	Continuous	Periodic	Detailed Instructions and Frequencies
CONCRETE CONSTRUCTION (IBC 1705.3 & 1705.12.1)			
Reinforcing steel, including prestressing tendons		X	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
Cast-in bolts & embeds		X	Inspection of anchors or embeds cast in concrete is required when allowable loads have been increased or where strength design is used.
Post-installed anchors or dowels		X	All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report.
Use of required mix design		X	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 4, 5.2-5.4, and IBC 1904.3, 1913.2, 1913.3.
Concrete sampling for strength tests, slump, air content, and temperature	X		
Concrete & shotcrete placement	X		
Curing temperature and techniques		X	Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 5.11.3). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
Strength verification		X	Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons.
Formwork		X	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.

STATEMENT OF SPECIAL INSPECTIONS - WOOD			
Item	Continuous	Periodic	Detailed Instructions and Frequencies
WOOD CONSTRUCTION (IBC 1705.5, 1705.10.1 & 1705.11.2)			
High-load diaphragms		X	Verify thickness and grade of sheathing, size of framing members at panel edges, nail/staple diameters and length, and the number of fastener lines and fastener spacing per approved plans. Performed by code inspection firm.
Wood trusses spanning > 60-feet		X	Verify that temporary and permanent truss bracing is installed in accordance with approved truss package. Performed by code inspection firm.
Structural wood		X	If fastener spacing is < 4" o.c.: Verify that proper nailing, bolting, anchoring and other fastening of shear walls, diaphragms, drag struts, braces, and holdowns. Performed by code inspection firm.

ISSUE DATE:

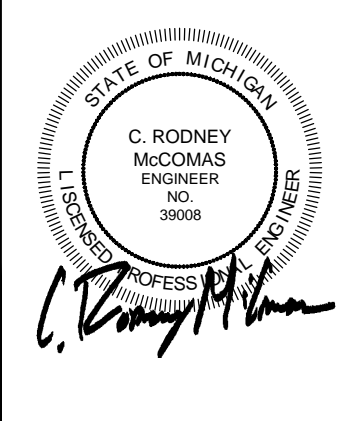
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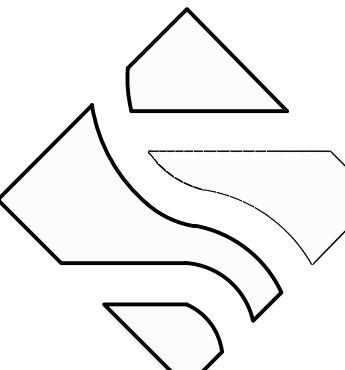
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L.J. GRIFFIN FUNERAL HOME
SCHEMATIC DESIGN
 NOVI, MI

SHEET NO.

S4.2

JOB NUMBER: 16238

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 Carmel, Indiana 46032

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WOOD FRAMED WALL SCHEDULE							
MARK	STUDS	STUD SPACING	TOP PLATE	BOTTOM PLATE	SILL PLATE ANCHORS	SHEATHING FASTENERS (FIELD)	SHEATHING FASTENERS (EDGE)
W1	2x6 No.1/No.2 SPF	16" OC	(2) 2x6	(1) 2x6 TREATED	5/8" TITEN HD SCREW ANCHORS @ 48" OC	8d @ 12" OC	8d @ 6" OC
W2	2x6 No.1/No.2 SPF TREATED	16" OC	(2) 2x6	(1) 2x6 TREATED	5/8" TITEN HD SCREW ANCHORS @ 48" OC	8d @ 12" OC	8d @ 6" OC
W3	2x6 No.1/No.2 SPF	12" OC	(3) 2x6	(1) 2x6	5/8" TITEN HD SCREW ANCHORS @ 48" OC	8d @ 12" OC	8d @ 6" OC

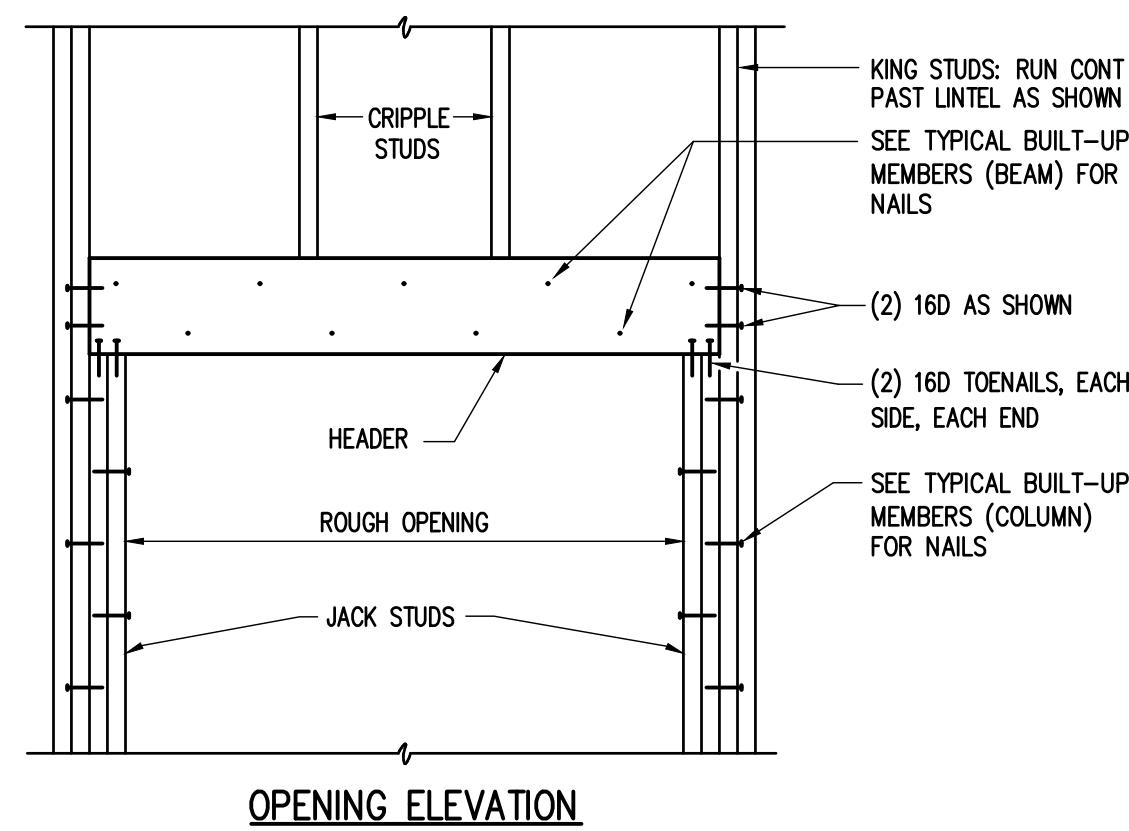
- WOOD FRAMED WALL SCHEDULE NOTES:**
- See shearwall schedule for additional requirements.
 - Additional schedules, notes and details shall apply. Most stringent requirements shall be used.
 - All nail sizes are "Common" type. Substitutions are not allowed.
 - See Arch drawings for wall sheathing required. For drywall sheathing, use #8 screws in lieu of 8d nails.

WOOD COLUMN SCHEDULE					
MARK	ACTUAL SIZE	MATERIAL	POST BASE	COLUMN CAP	REMARKS
WC1	5 1/2" x 5 1/2"	No.1 S.PINE	SIMPSON "ABU66Z"	SIMPSON "ECC066SDS2.5"	
WC2	5 1/2" x 5 1/2"	No.2 S.PINE (TREATED)	SIMPSON "ABU66Z"	SIMPSON "ECC066SDS2.5"	
WC3	5 1/4" x 5 1/4"	1.8E PSL	SIMPSON "ABU66Z"	SIMPSON "ECC066SDS2.5"	

- WOOD COLUMN SCHEDULE NOTES:**
- Wood species per typical notes on S401.
 - All parallel columns manufactured by Weyerhaeuser.
 - All post bases and post caps by Simpson Strong-Tie. See Simpson literature for installation instructions.
 - Simpson connectors & fasteners in contact with pressure treated lumber shall be stainless steel or coated with a protective coating intended for use with pressure treated lumber.

WOOD BEAM SCHEDULE			
MARK	SIZE/TYPE	END CONDITION	CONNECTOR
WB1	3-PLY 2x8 No.1 S.PINE	COLUMN BEARING	SEE COLUMN SCHED
WB2	3-PLY 2x12 No.1 S.PINE	COLUMN BEARING	SIMPSON "ECC066SDS2.5" UNO
WB3	5 1/4" x 11 1/4" PSL or 3-PLY 1 3/4" x 11 1/4" LVL	COLUMN & BEAM BEARING	SIMPSON "ECC066SDS2.5" UNO
WB4	5 1/4" x 18" PSL or 3-PLY 1 3/4" x 18" LVL	COLUMN BEARING	SEE DETAIL

- WOOD BEAM SCHEDULE NOTES:**
- See Header Schedule for typical wall opening framing requirements.
 - All connectors are Simpson Strong-Tie.
 - Simpson connectors & fasteners in contact with pressure treated lumber shall be stainless steel or coated with a protective coating intended for use with pressure treated lumber.



WOOD HEADER SCHEDULE				
MARK	SPECIES/GRADE	MEMBER	JACK STUDS	KING STUDS
H1	No.1 S.PINE	(3) 2x8	(2) 2x6	(2) 2x6
H2	No.1 S.PINE	(3) 2x10	(2) 2x6	(3) 2x6
H3	No.1 S.PINE	(3) 2x12	(2) 2x6	(3) 2x6
H4	2.0E LVL	(3) 1 3/4" x 9 1/4" LVL	(2) 2x6	(3) 2x6
H5	2.0E LVL	(3) 1 3/4" x 14" LVL	(3) 2x6	(3) 2x6

- WOOD HEADER SCHEDULE NOTES:**
- See plan for header locations.
 - See detail above for header information.
 - Provide 1/2" thick plywood between plies as needed to match supporting wall thickness.

COLUMN FOOTING SCHEDULE						
FTG MARK	FOOTING SIZE			REINF EACH WAY		REMARKS
	WIDTH	LENGTH	THICK	NO	SIZE	
F4	4'-0"	4'-0"	12"	5	#5	
F5	5'-0"	5'-0"	24"	6	#5	
F7	7'-0"	7'-0"	24"	8	#6	TOP & BOTTOM

- COLUMN FOOTING SCHEDULE NOTES:**
- See plan for actual footings used.
 - Provide 3" concrete cover on bars.
 - Use concrete brick or CRSI Class 3, CHCP wire bar supports at 3'-0".

STEEL COLUMN SCHEDULE							
MARK	SIZE	BASEPLATE			ANCHOR RODS		WELD TO BASE PLATE
		THICK	WIDTH	LENGTH	NO	SIZE	
C1	HSS5x5x1/4	3/4"	11"	11"	4	3/4" DIA	3/4" FILLET ALL-AROUND
C2	HSS5x5x1/2	3/4"	12"	12"	4	3/4" DIA	3/8" FILLET ALL-AROUND
C3	HSS5x5x3/8	1 1/4"	16"	16"	4	1" DIA	3/8" FILLET ALL-AROUND

- STEEL COLUMN SCHEDULE NOTES:**
- See typical details for column base construction and anchor rod requirements.

CONCRETE PIER SCHEDULE						
MARK	WIDTH	LENGTH	VERT REINF		TIES	
			NO	SIZE	NO	SPACING
P24	24"	24"	4	#8	#3	12"
P30	30"	30"	8	#7	#3	12"

- CONCRETE PIER SCHEDULE NOTES:**
- See plan for actual piers used.
 - Provide 1 1/2" concrete cover over ties.
 - Provide (3) ties @ 3" OC top of pier; remainder of ties spaced as indicated above.
 - Space first tie 3" from top of footing, last tie 2" from top of pier. See typical pier elevation for additional tie and vertical bar placement.
 - Provide CRSI Typ Bar Bend No T5 for all ties.
 - Provide CRSI Typ Bar Bend No T9 additional ties for all piers with more than four vertical bars.

THICKENED SLAB SCHEDULE						
MARK	SIZE		LONGITUDINAL REINF		TRANSVERSE REINF	
	WIDTH	THICK	NO	SIZE	SIZE	SPACING
THKS30	30"	16"	4	#6	#4	8'-0"

- THICKENED SLAB SCHEDULE NOTES:**
- See plan for actual footings used.
 - Provide 3" concrete cover on bars.
 - Use concrete brick or CRSI Class 3, CHCP wire bar supports at 3'-0".

WALL FOOTING SCHEDULE							
FTG MARK	FOOTING SIZE			LONGITUDINAL REINF		TRANSVERSE REINF	
	WIDTH	THICK	NO	SIZE	SIZE	SPACING	
WF18	18"	24"	2	#6	#4	8'-0" OC	
WF24	24"	24"	3	#6	#4	8'-0" OC	
WF36	36"	24"	4	#6	#4	8'-0" OC	
WF48	48"	24"	5	#6	#4	8'-0" OC	

- WALL FOOTING SCHEDULE NOTES:**
- See plan for footing locations and elevations.
 - Provide 3" concrete cover on bars.
 - Use concrete brick or CRSI Class 3, CHCP wire bar supports at 3'-0".
 - Locate reinforcing at bottom of footing UNO.

MASONRY WALL SCHEDULE						
WALL MARK	TYPE	REINFORCING			LOCATION	COMMENTS
		HORIZ	VERT	BOND BEAM		
MW6	6" CMU	NOTE 4	#5 @ 32"	#5 @ 32"	(2)#4xCONT	CENTER GROUT SOLID
MW8	8" CMU	NOTE 4	#5 @ 24"	#5 @ 24"	(2)#4xCONT	CENTER GROUT SOLID
MW12	12" CMU	NOTE 4	(2)#5 @ 32"	(2)#5 @ 32"	(2)#5xCONT	SIDES GROUT SOLID

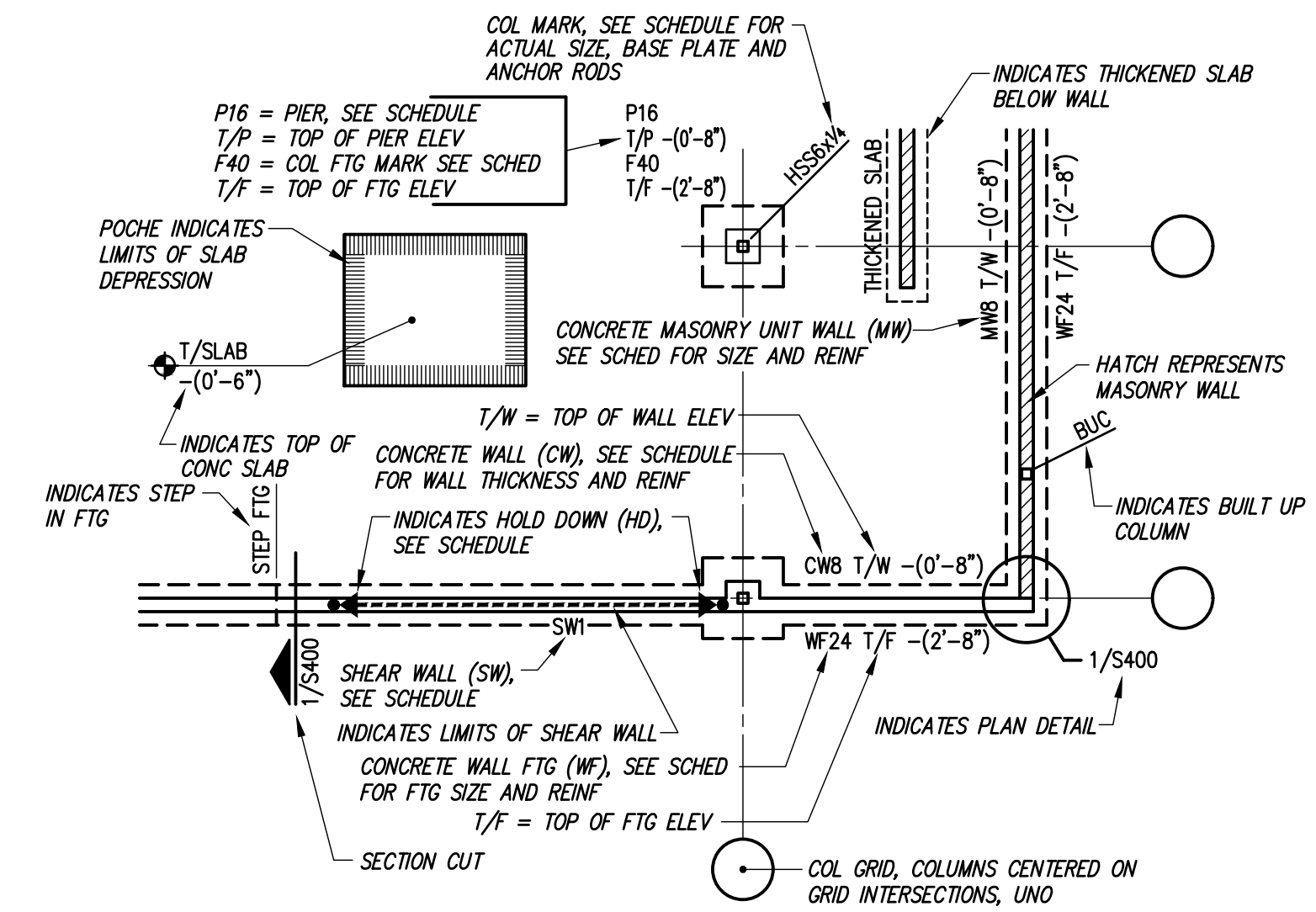
- MASONRY WALL SCHEDULE NOTES:**
- See plan for actual walls used.
 - Provide 2" cover from outside face for bars in each face.
 - Grout all cores with rebar solid, unless noted otherwise.
 - Provide ladder type horizontal reinforcement @ 16" oc. Side and cross rods shall be #9 wire, galvanized, see specifications. Cut joint reinf. at all control joints.
 - Reinforcing steel in bond beams shall be continuous across control joints unless noted otherwise.
 - Provide bond beam with (2) #5 cont @ top of wall, and @ each floor level, unless noted otherwise.
- See schedule for additional bond beams.

BRICK LINTEL SCHEDULE		
FOR ALL LINTELS NOT INDICATED ON PLANS		
CLEAR OPENING	STEEL ANGLE	
Up to 5'-0"	L 3 1/2 x 3 1/2 x 3/8	
5'-1" to 7'-0"	L 5 x 3 1/2 x 3/8 (LLV)	
7'-1" to 10'-0"	L 6 x 3 1/2 x 3/8 (LLV)	

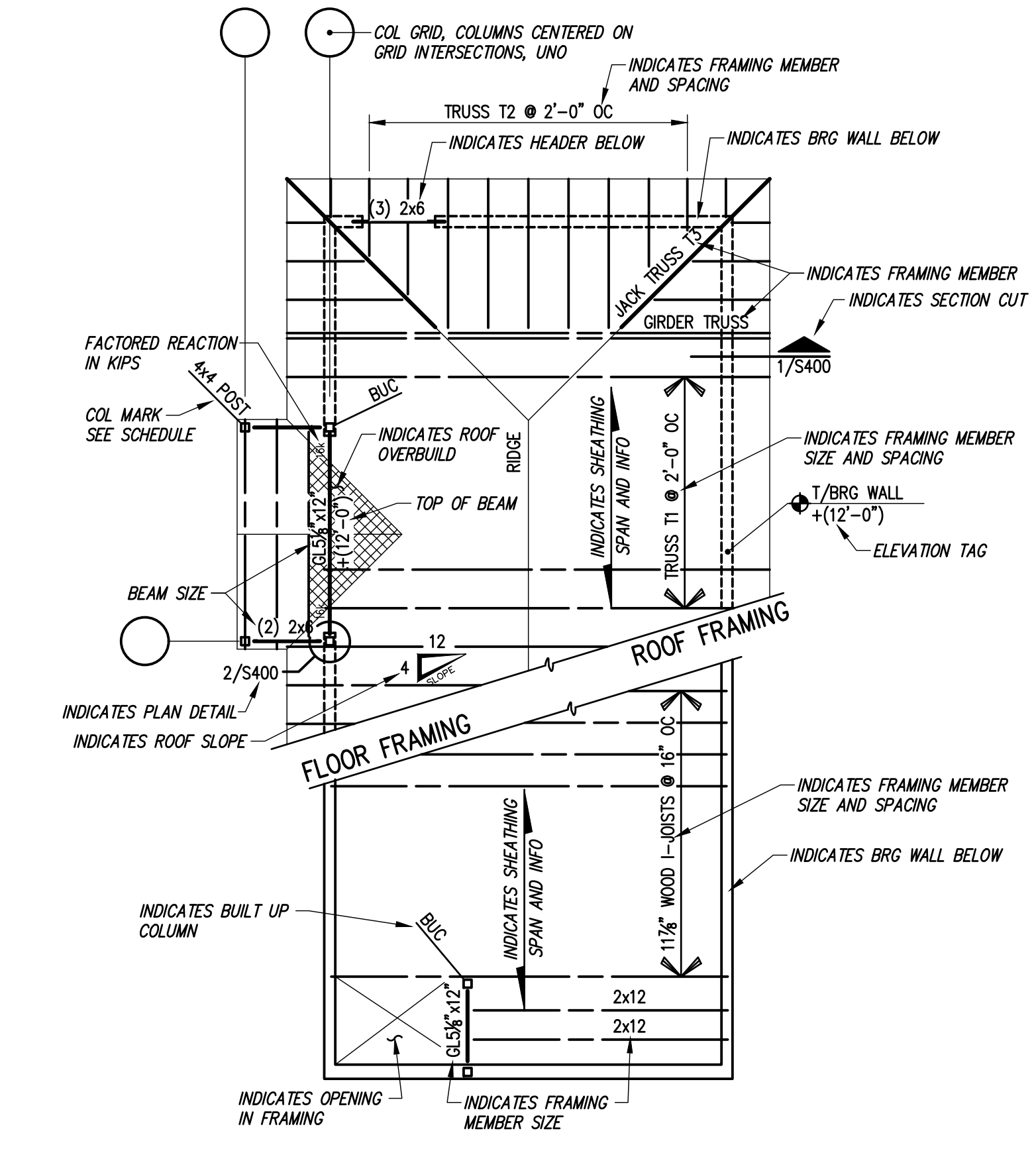
- TYPICAL BRICK LINTEL SCHEDULE NOTES:**
- All lintels shall have 8" bearing at each end.
 - All exterior lintels shall be hot-dipped galvanized.
 - All interior lintels shall be shop primed with two coats of epoxy paint.

CONCRETE WALL SCHEDULE					
MARK	THICKNESS	REINFORCING			LOCATION
		HORIZ	VERT	DOWELS	
CW8	8"	#4 @ 12"	#4 @ 12"	#4 @ 12"	CENTER
CW12	12"	#5 @ 12"	#5 @ 12"	#5 @ 12"	EACH FACE

- CONCRETE WALL SCHEDULE NOTES:**
- See plan for actual walls used.
 - Provide 1 1/2" concrete cover.
 - Provide wheel spacers or CRSI Typ Bar Bend No T5 at 3'-0" each way to assure adequate concrete cover.
 - See sections for all bars not included in schedule.



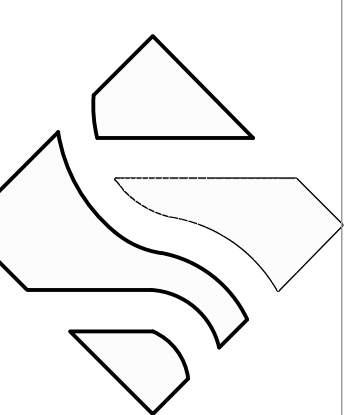
FOUNDATION PLAN LEGEND
SCALE: NTS



FRAMING PLAN LEGEND
SCALE: NTS

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08-21-2017
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3/2/2018
REVISION:
09-30-2017
TSI-001
STATE OF MICHIGAN
C. RODNEY MCCOMAS
ENGINEER
NO. 38008
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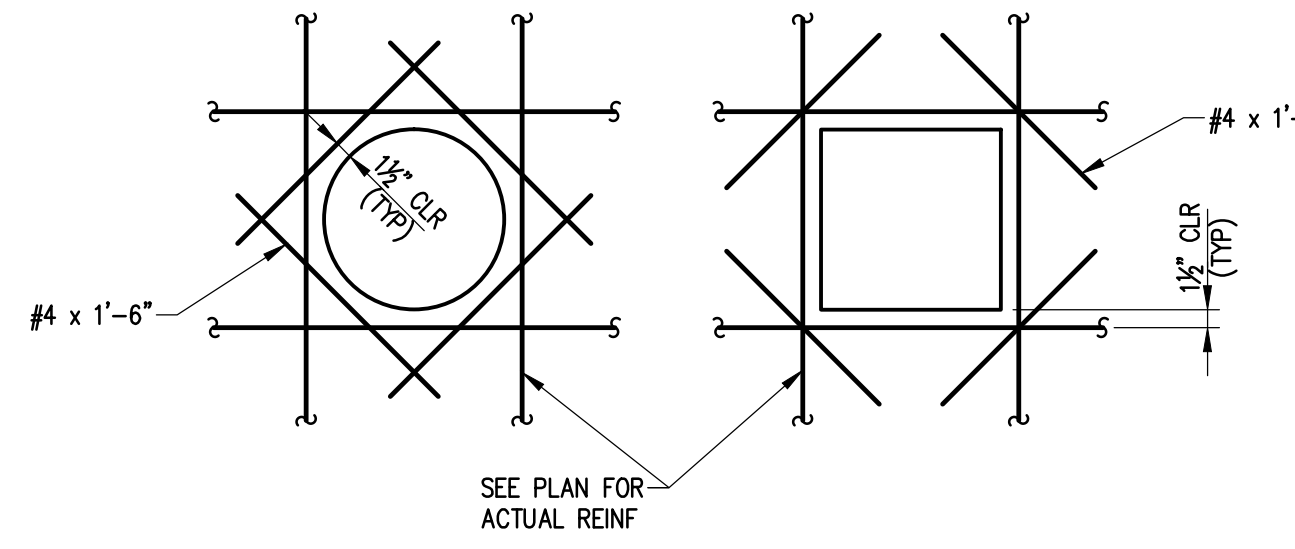


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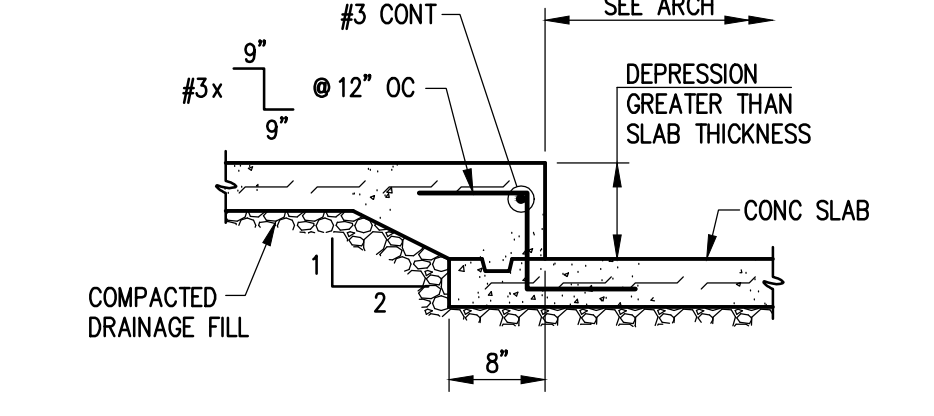
SHEET NO.
S4.3
JOB NUMBER: 16238

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C. Rodney McComas, P.E.

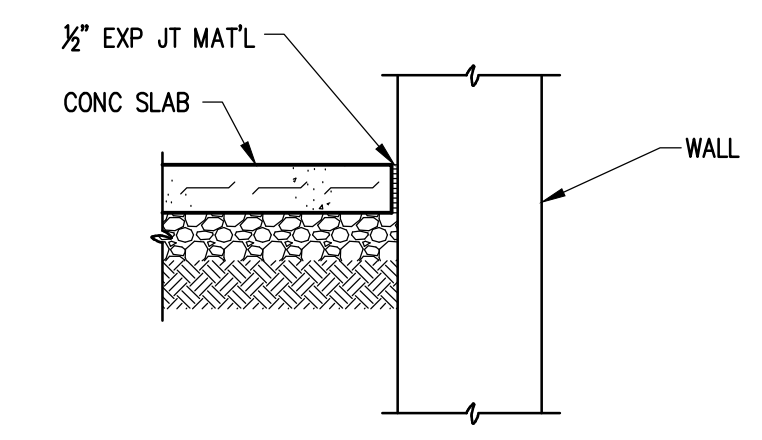
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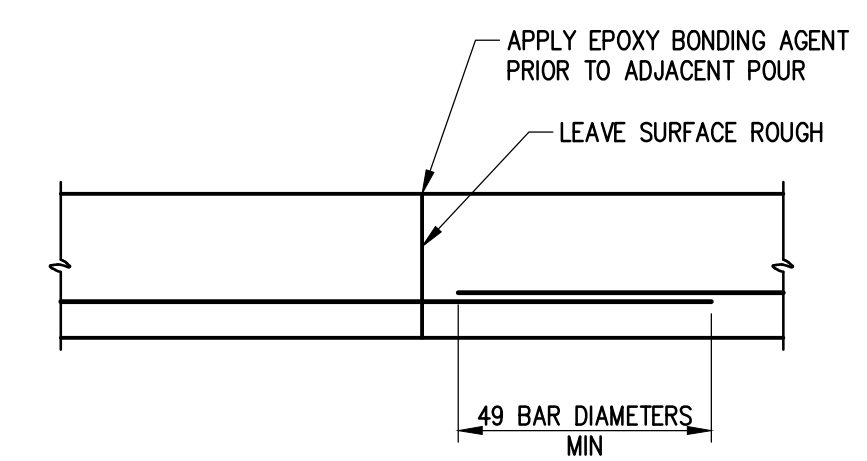
TYPICAL SLAB ON GRADE OPENING REINFORCING (H)
SCALE: NTS



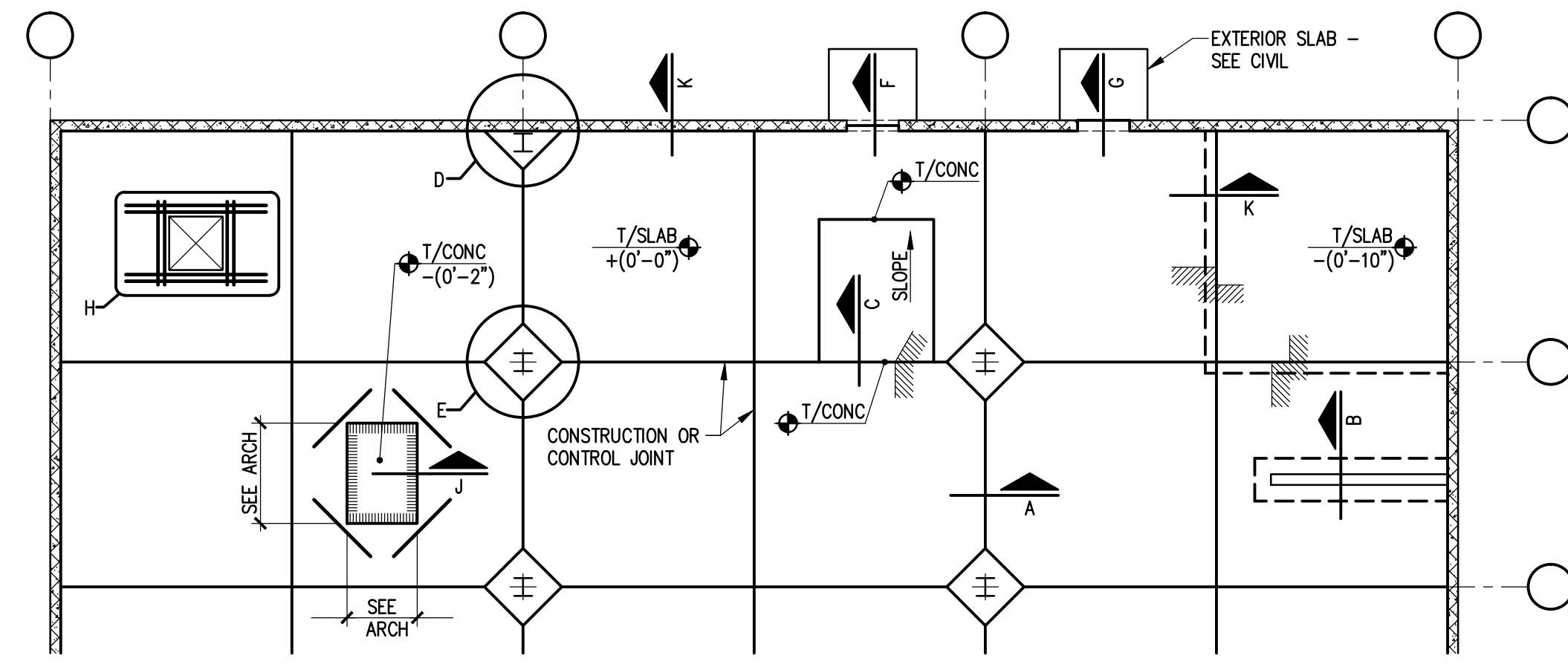
TYPICAL DEPRESSED SLAB (J)
SCALE: NTS



TYPICAL EXPANSION JOINT AT WALL (K)
SCALE: NTS

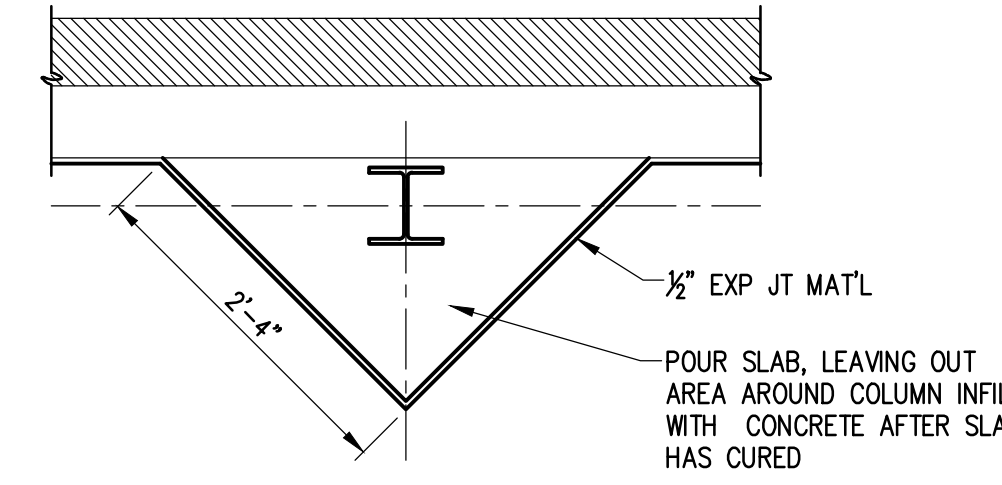


TYPICAL WALL FOOTING CONSTRUCTION JOINT (L)
SCALE: NTS



TYPICAL SLAB ON GRADE KEY PLAN
SCALE: NTS

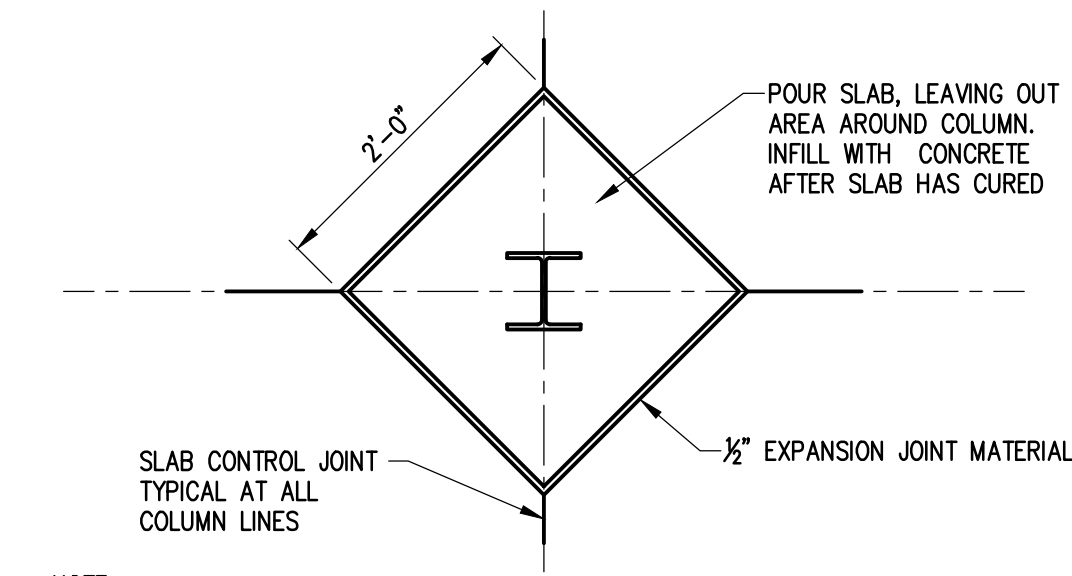
NOTES:
1. KEY PLAN ILLUSTRATES CONSTRUCTION CONCEPTS ONLY. SEE PLAN FOR ACTUAL DIMENSIONS AND ARRANGEMENTS.



OUTSIDE WALL CONDITION

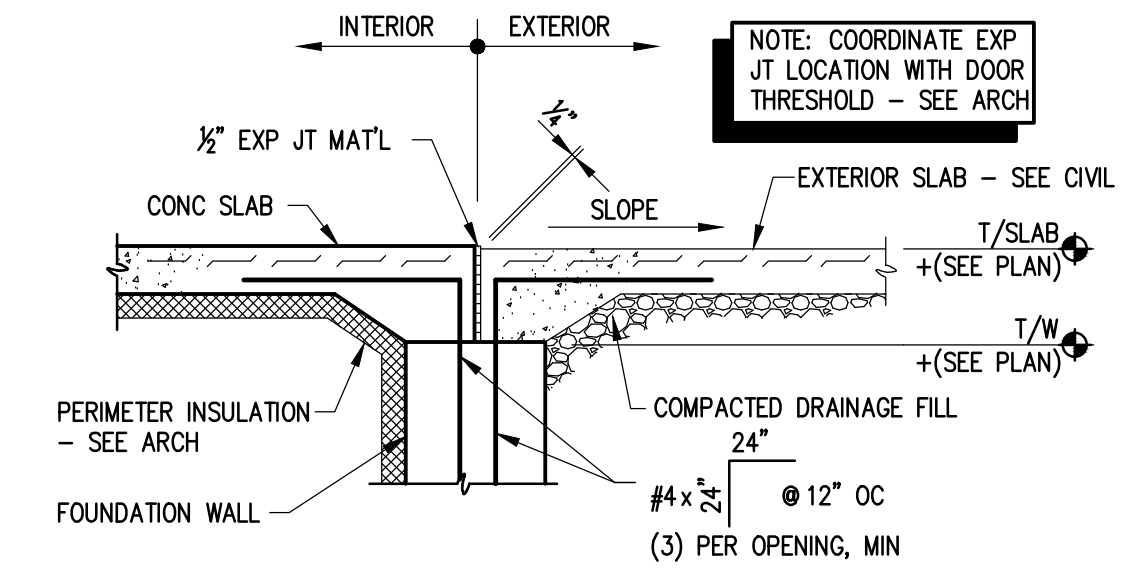
NOTE:
1. PROVIDE FOR ALL SLABS ON GRADE AT ALL BUILDING COLUMNS, UNO

TYPICAL COLUMN ISOLATION JOINT (D)
SCALE: NTS

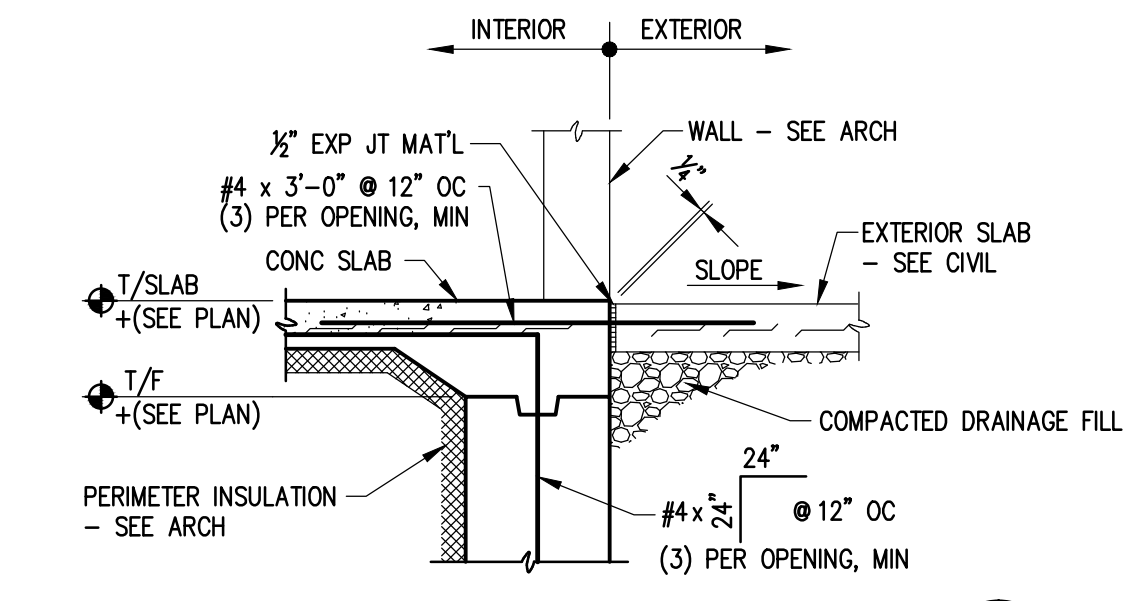


NOTE:
1. PROVIDE FOR ALL SLABS ON GRADE AT ALL BUILDING COLUMNS, UNO

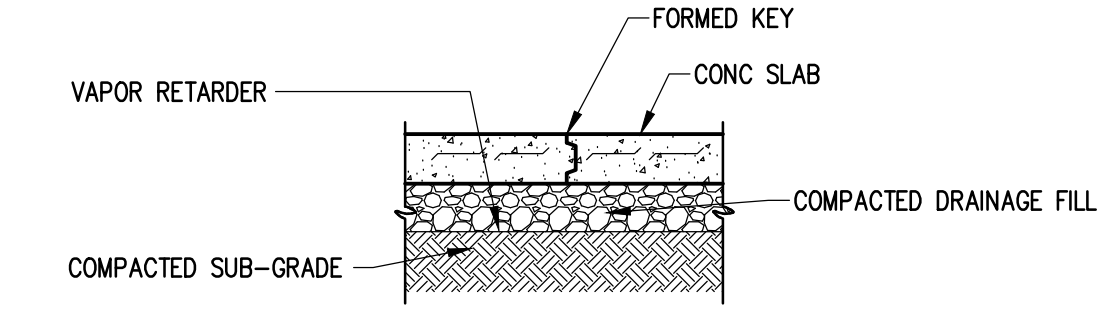
TYPICAL COLUMN ISOLATION JOINT (E)
SCALE: NTS



TYPICAL SECTION AT ENTRY (F)
SCALE: NTS



SECTION AT EXTERIOR CONCRETE SLAB (G)
SCALE: NTS



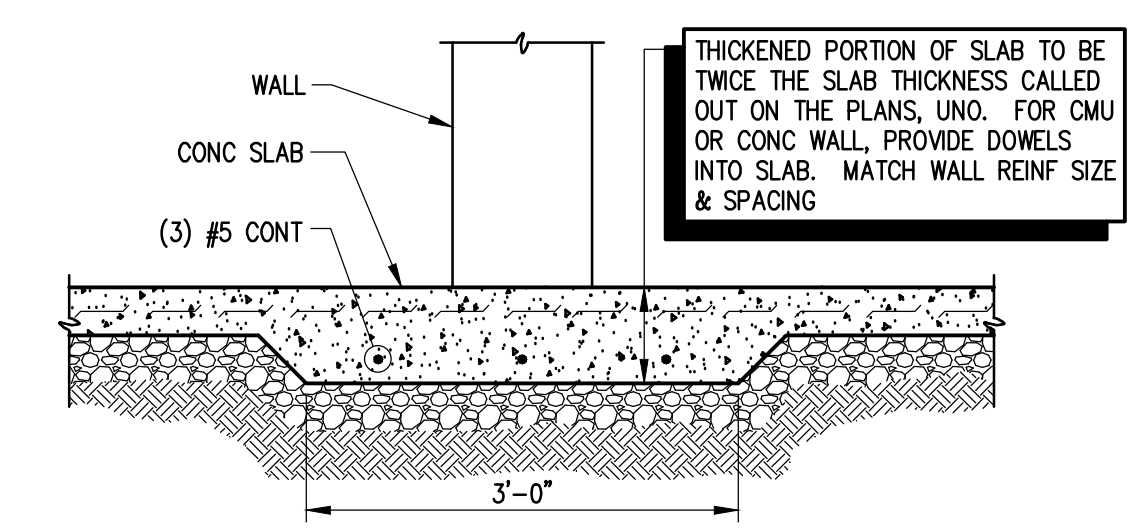
NOTE:
1. CONTRACTOR TO PROVIDE CONSTRUCTION JOINT LAYOUT.

TYPICAL SLAB CONSTRUCTION JOINT
SCALE: NTS

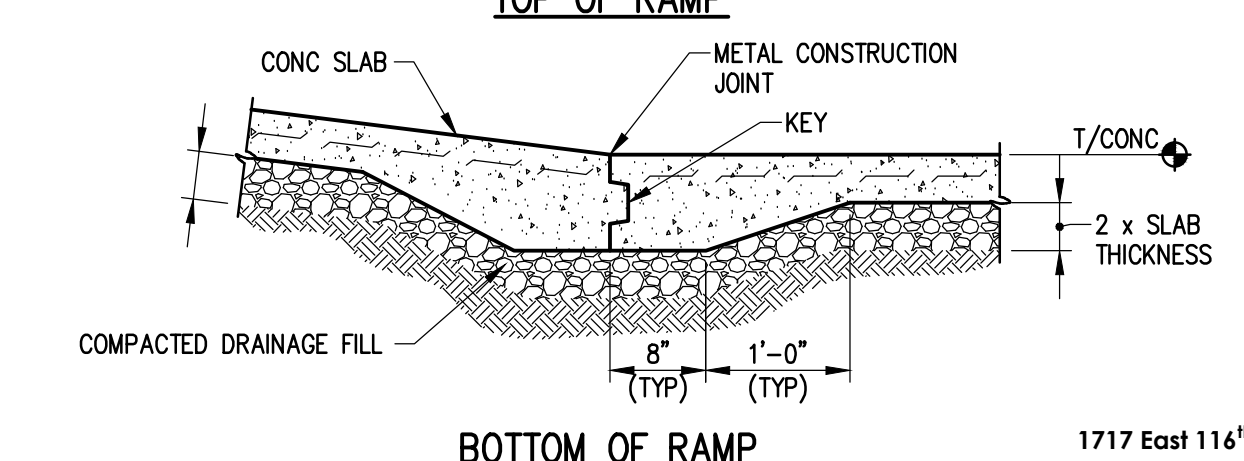
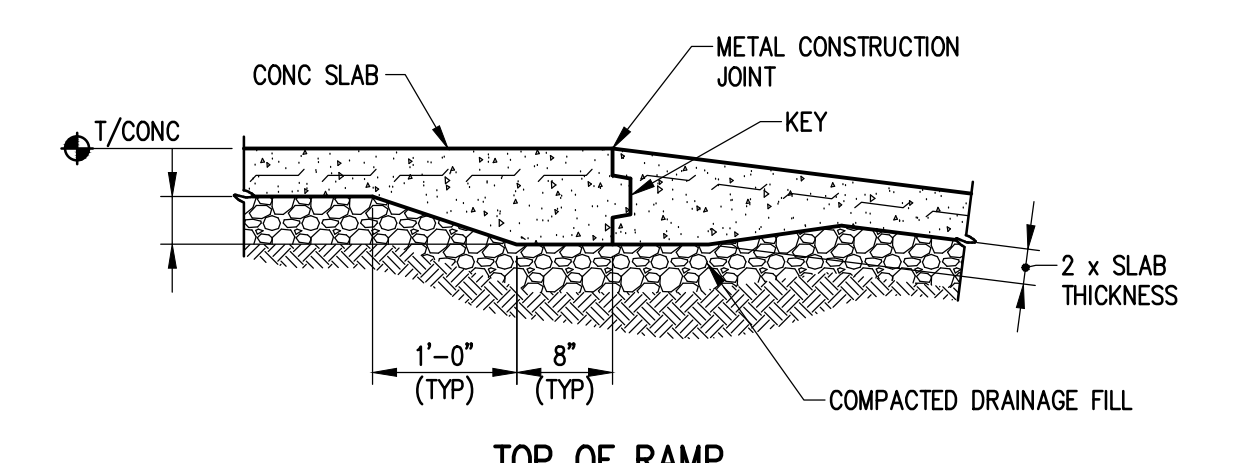
SLAB THICK	MAX JOINT SPACING	JOINT DEPTH	WWF DEPTH FROM TOP
4"	13'-0"	1"	1 1/2"
5"	15'-0"	1 1/2"	1 1/2"
6"	15'-0"	1 1/2"	2"
7"	18'-0"	1 1/2"	2"
8"	20'-0"	2"	2 1/2"
9"	24'-0"	2 1/2"	2 1/2"
10"	25'-0"	2 1/2"	3"
12"	25'-0"	3"	3 1/2"

NOTE:
1. CONTRACTOR TO PROVIDE CONTROL JOINT LAYOUT, BASED ON MAXIMUM JOINT SPACING, U.N.O.

TYPICAL SLAB CONTROL JOINT (A)
SCALE: NTS



TYPICAL THICKENED SLAB (B)
SCALE: NTS



TYPICAL CONCRETE RAMP DETAILS
SCALE: NTS

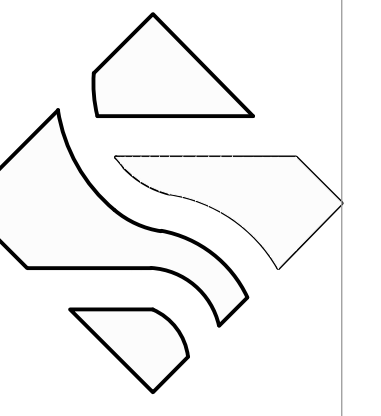
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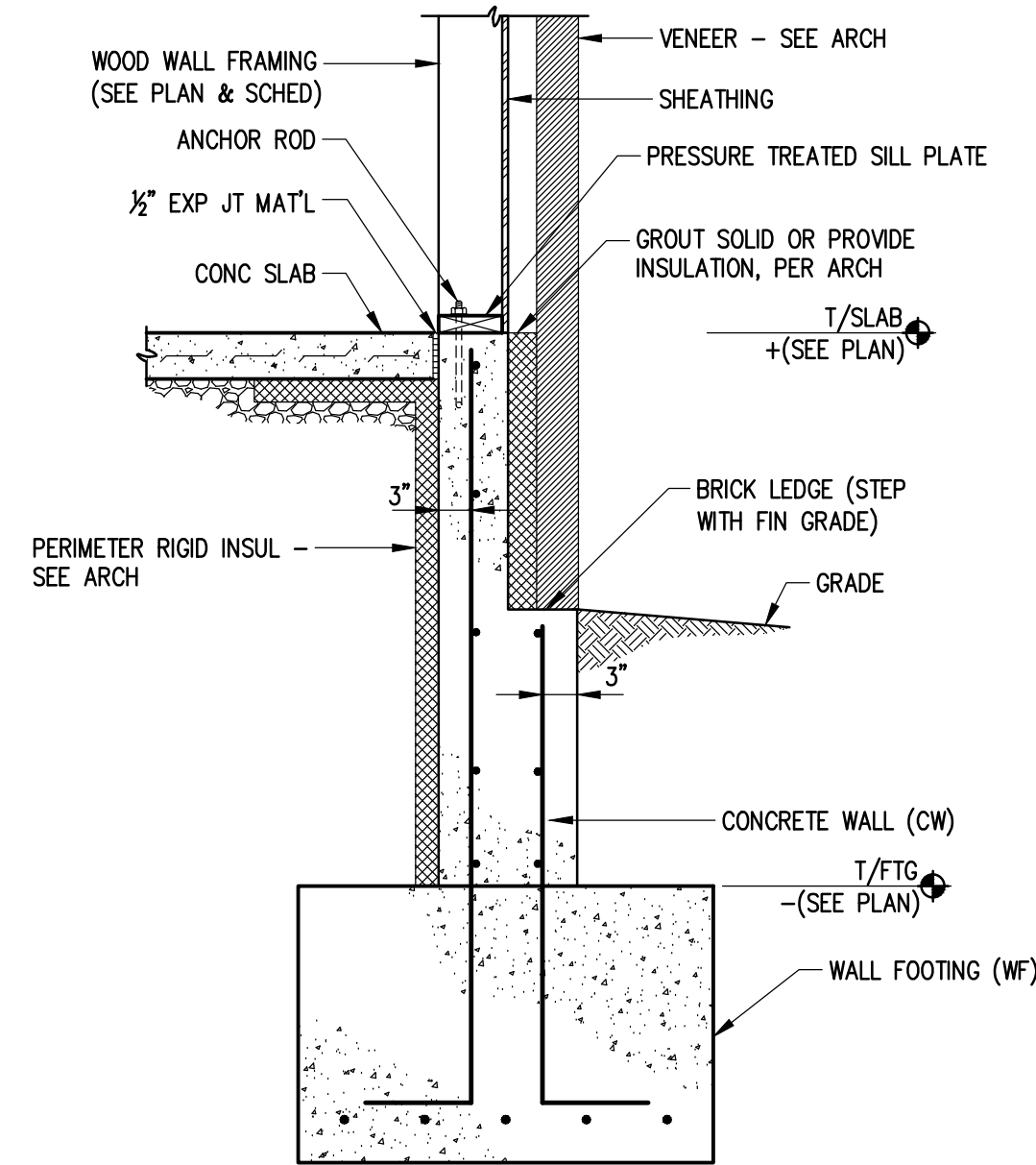
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SCHEMATIC DESIGN
NOVI, MI

SHEET NO.
S4.4
JOB NUMBER: 16238

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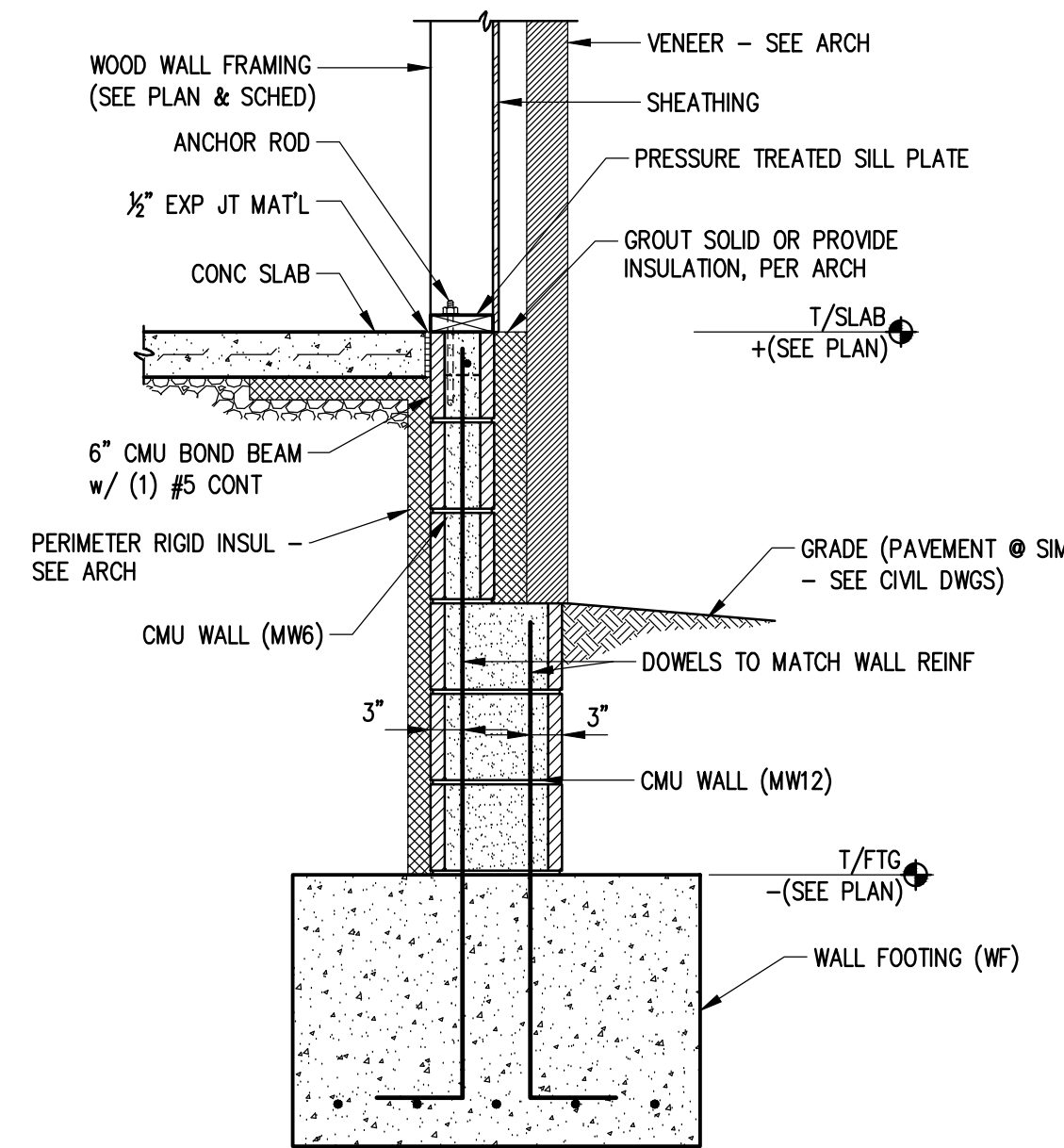


WALL FTG SECTION

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

DET019_17056

11 S4.5

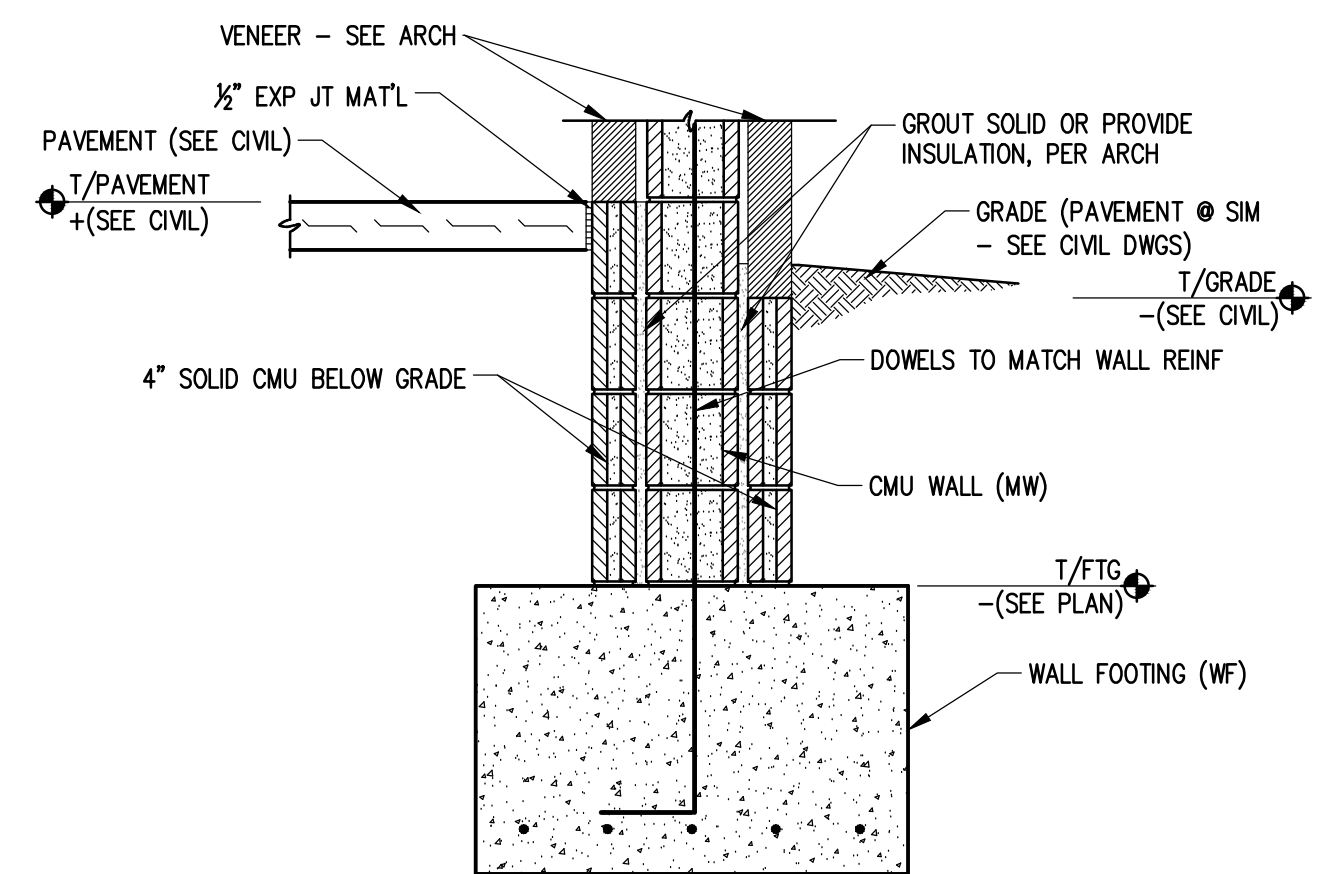


WALL FTG SECTION

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

DET020_17056

12 S4.5

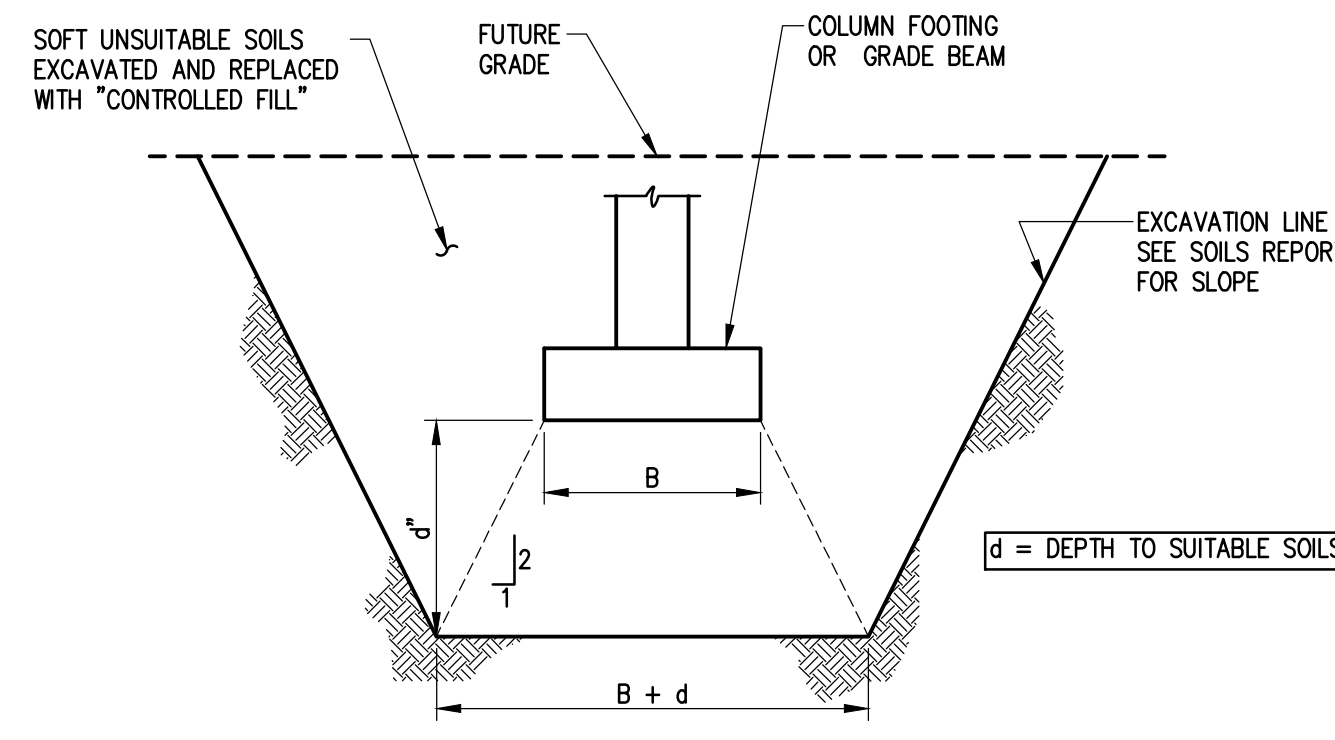


WALL FTG SECTION

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

DET021_17056

13 S4.5

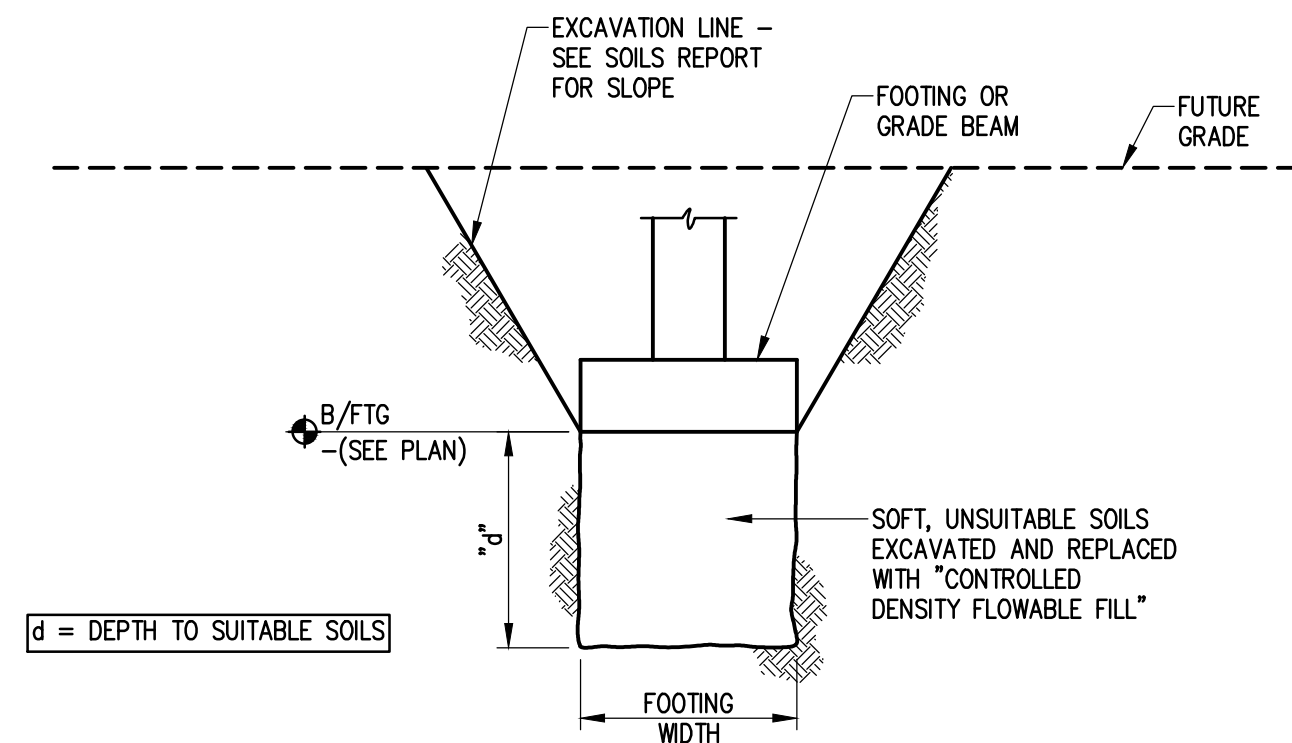


'CONTROLLED FILL' DETAIL

SCALE: NTS

FDN-059

07 S4.5

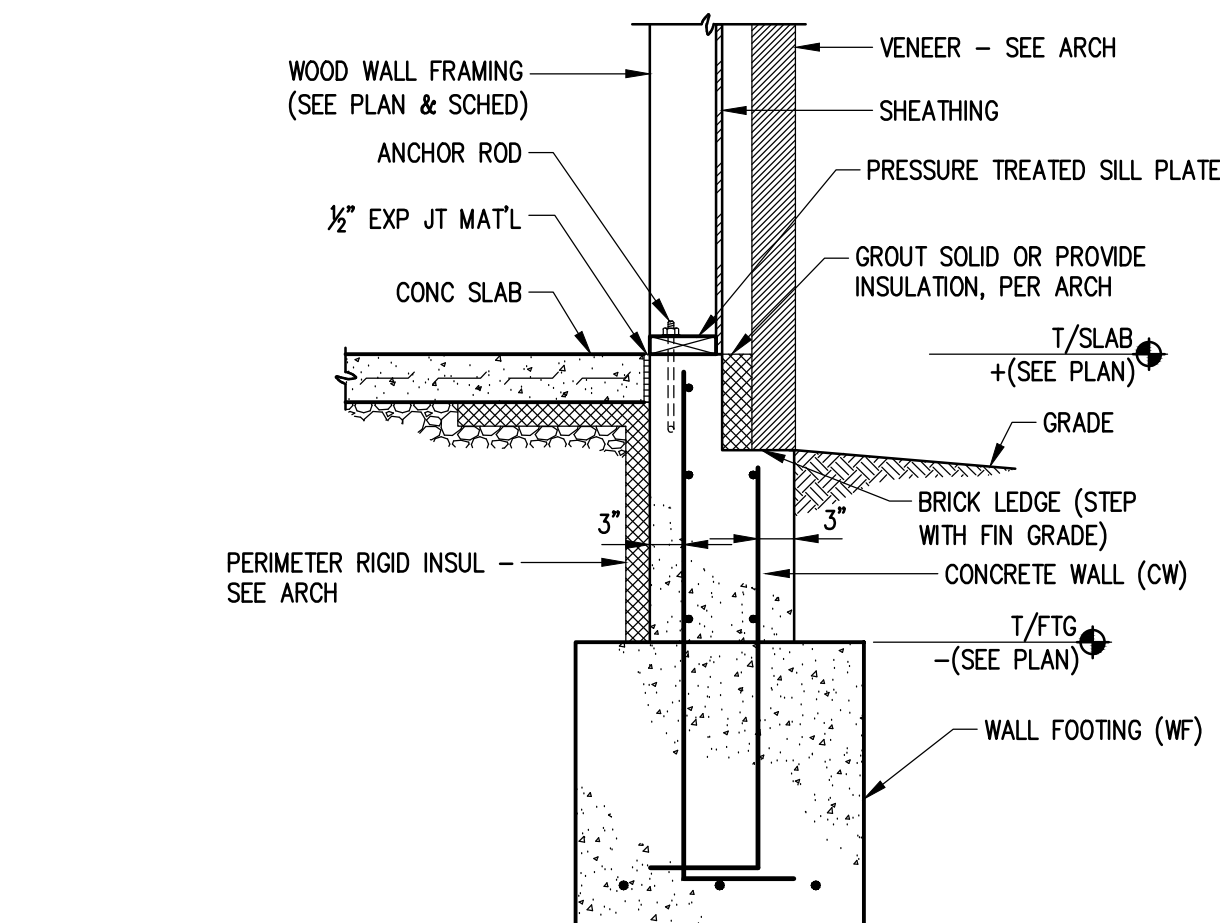


'CONTROLLED DENSITY FLOWABLE FILL' DETAIL

SCALE: NTS

FDN-060

08 S4.5

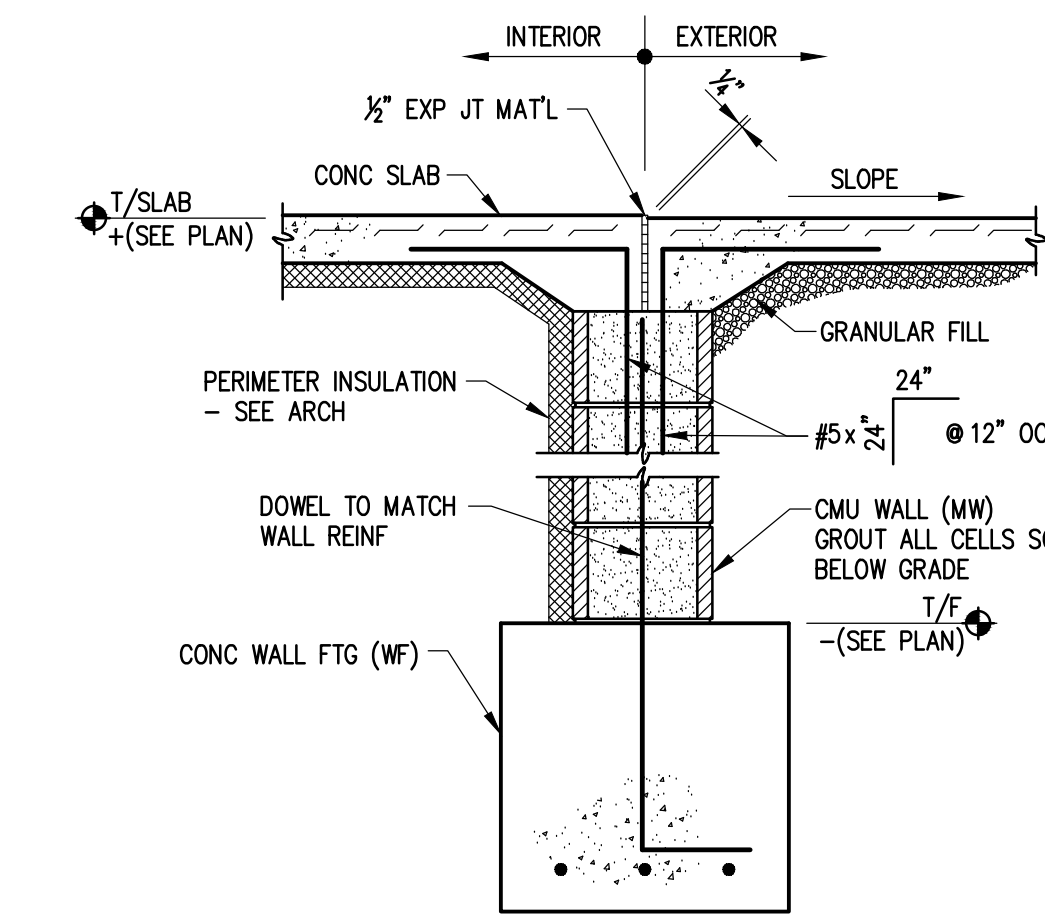


WALL FTG SECTION

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

DET018_17056

09 S4.5

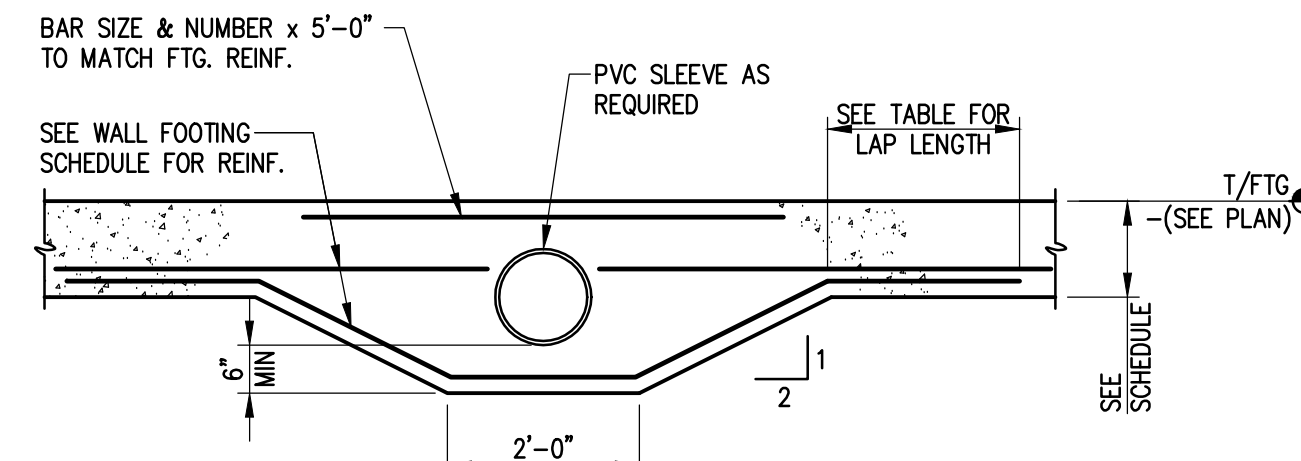


TYPICAL SECTION AT ENTRY

SCALE: NTS

FND-004C

10 S4.5

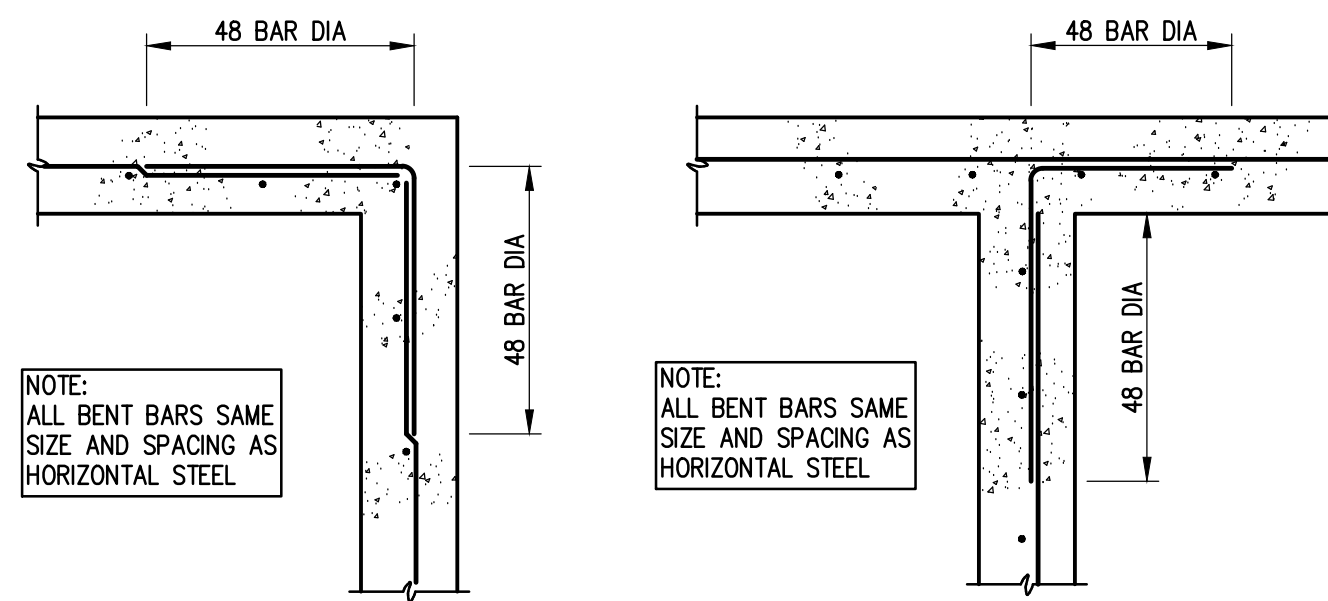


TYPICAL SLEEVE DETAIL AT WALL FOOTING

SCALE: NTS

FDN-055

04 S4.5

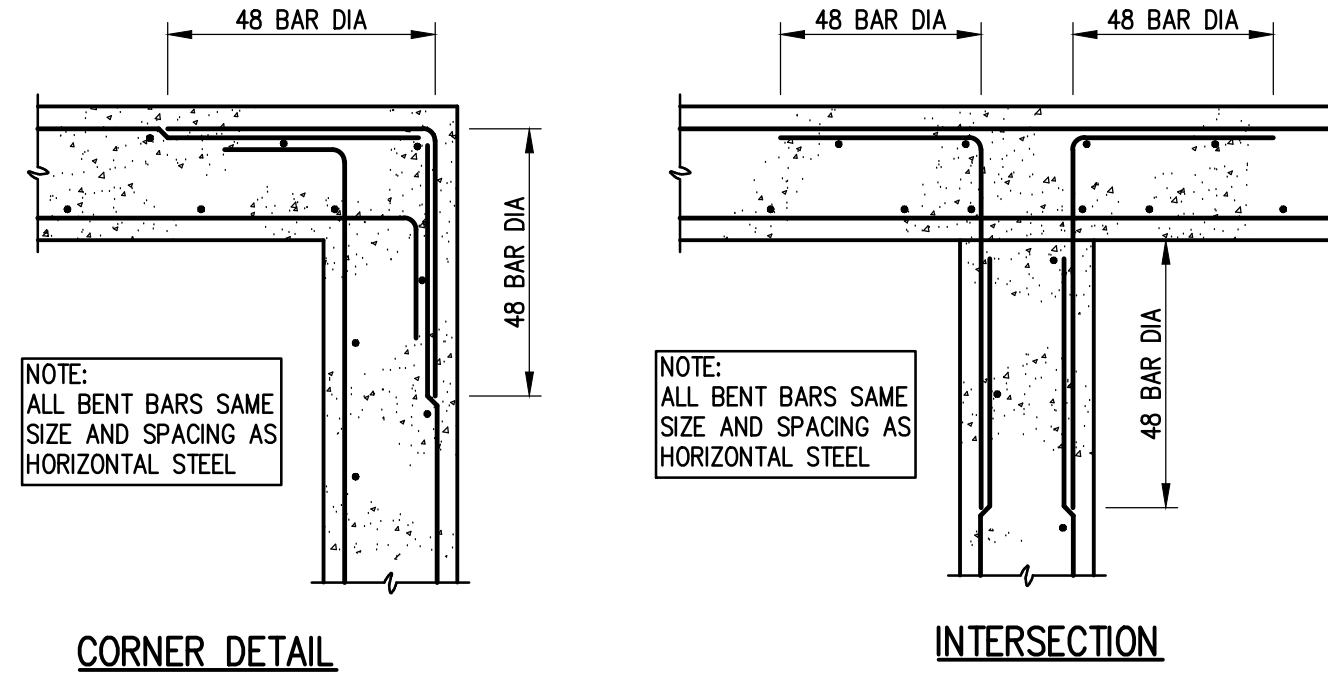


TYPICAL REINFORCED WALL DETAILS

SCALE: NTS

FDN-026

05 S4.5

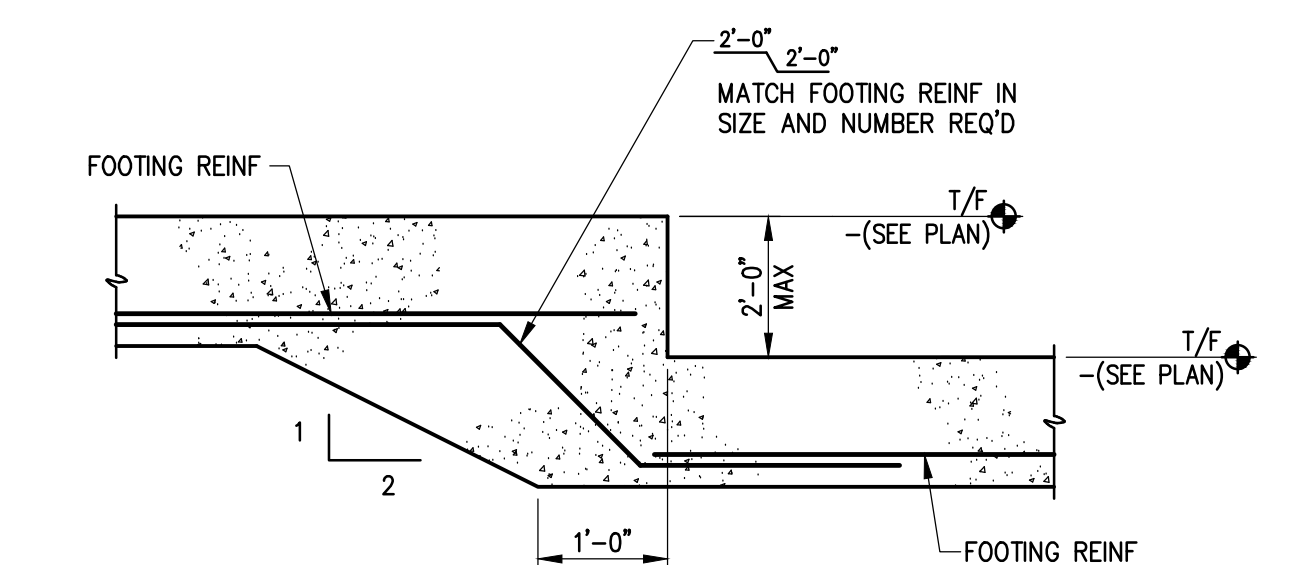


TYPICAL REINFORCED WALL DETAILS

SCALE: NTS

FDN-026

05 S4.5

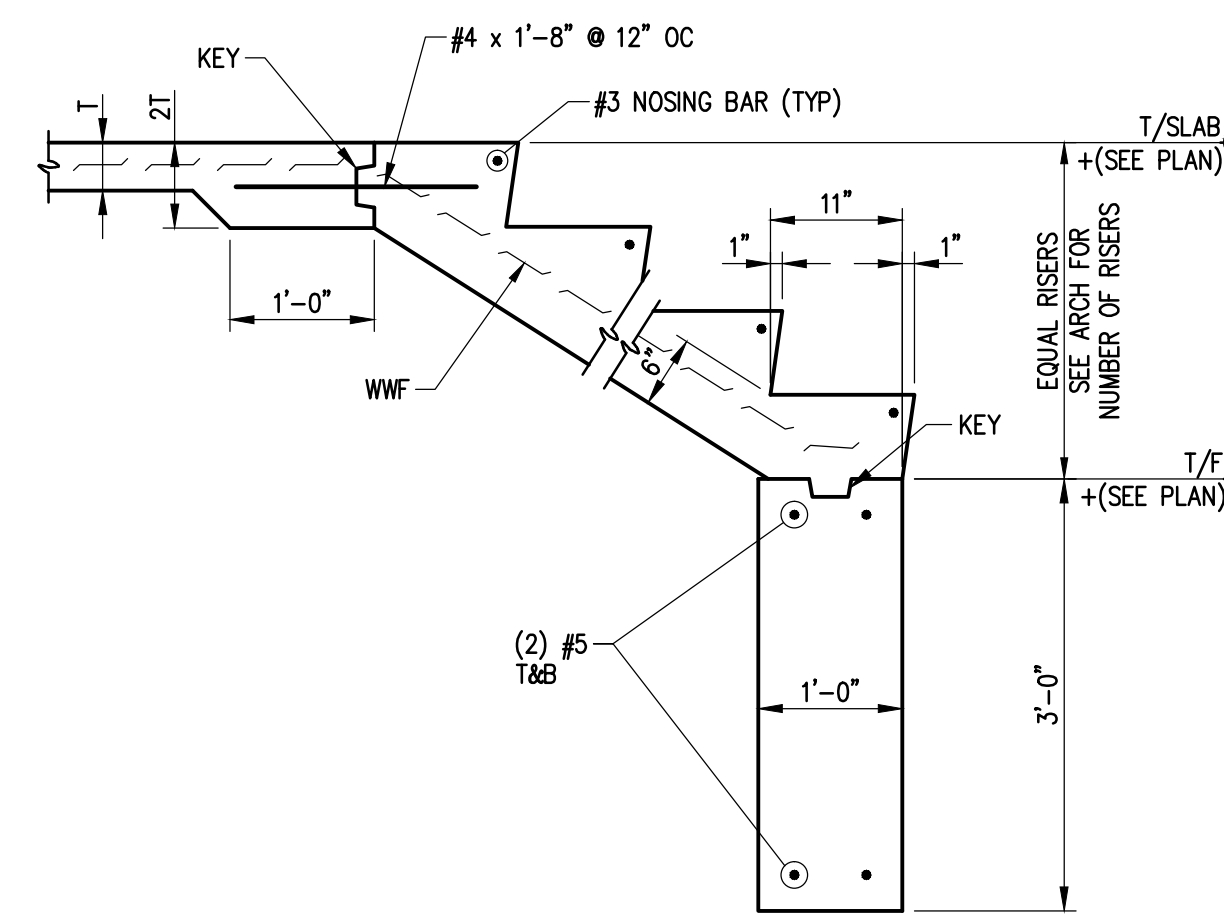


TYPICAL FOOTING STEP

SCALE: NTS

FDN-016

06 S4.5

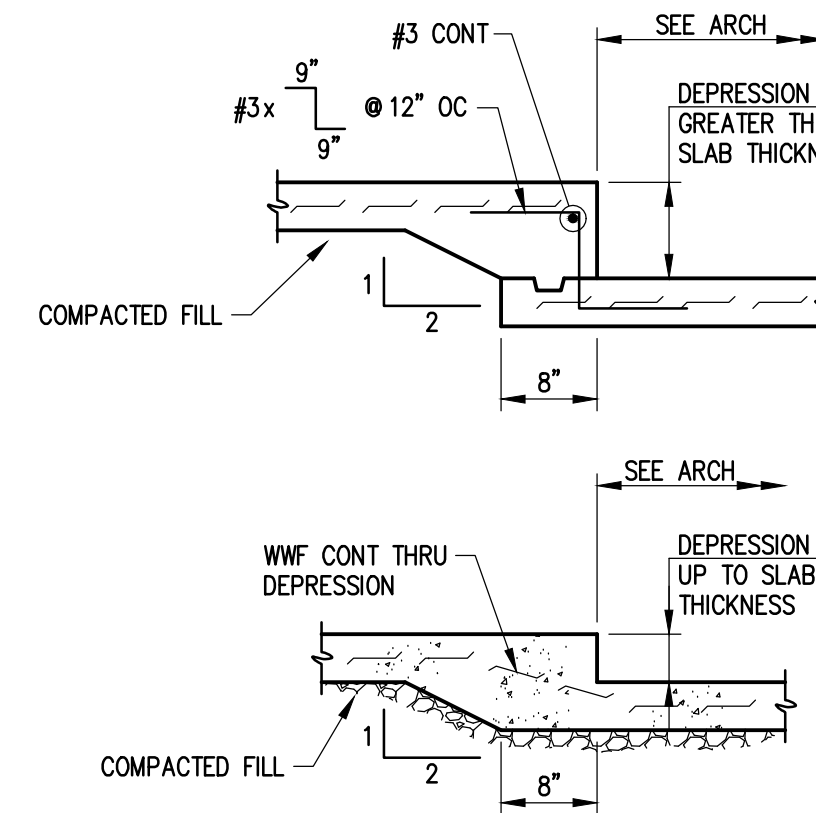


CONCRETE STAIR SECTION

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

CONC-003

01 S4.5

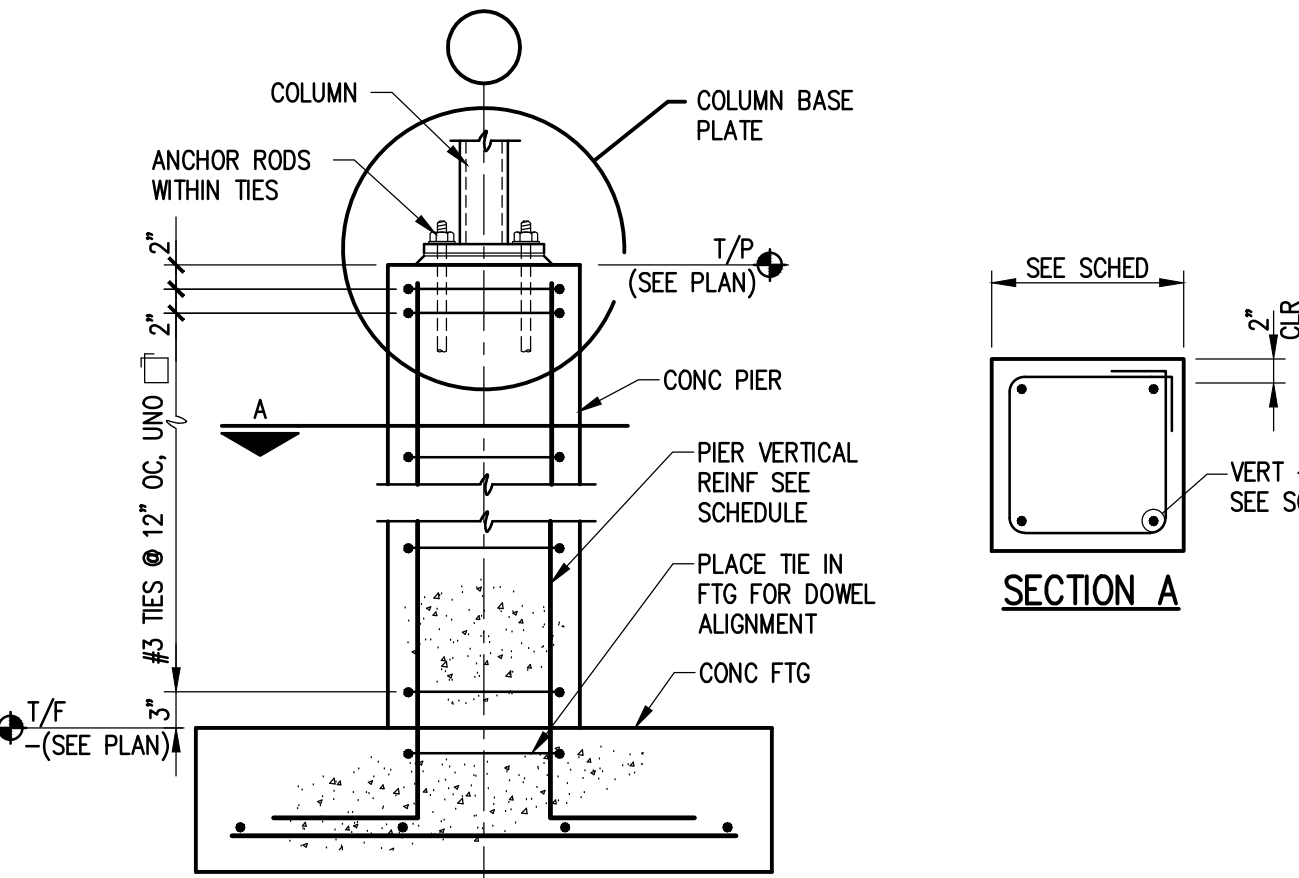


TYPICAL DEPRESSED SLAB

SCALE: NTS

FDN-052

02 S4.5



TYPICAL PIER ELEVATION

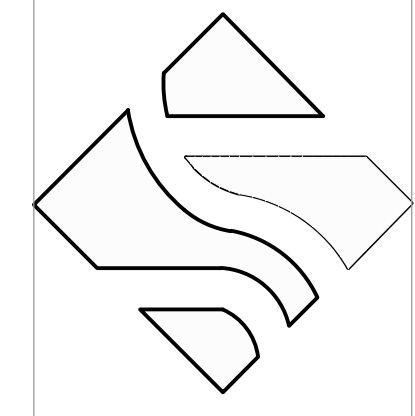
SCALE: NTS

FDN-014A

03 S4.5

ISSUE DATE:	08-21-2017
PERMIT/CONSTRUCTION	
STAMPING SET	3/2/2018
REVISION:	

STATE OF MICHIGAN
 C. RODNEY MCOMAS
 ENGINEER
 NO. 38608
 J. STUART TODD, INC.
 2919 WELBORN STREET, SUITE 101, DALLAS, TEXAS 75219 | 214.522.4033
 © J. STUART TODD, INC.

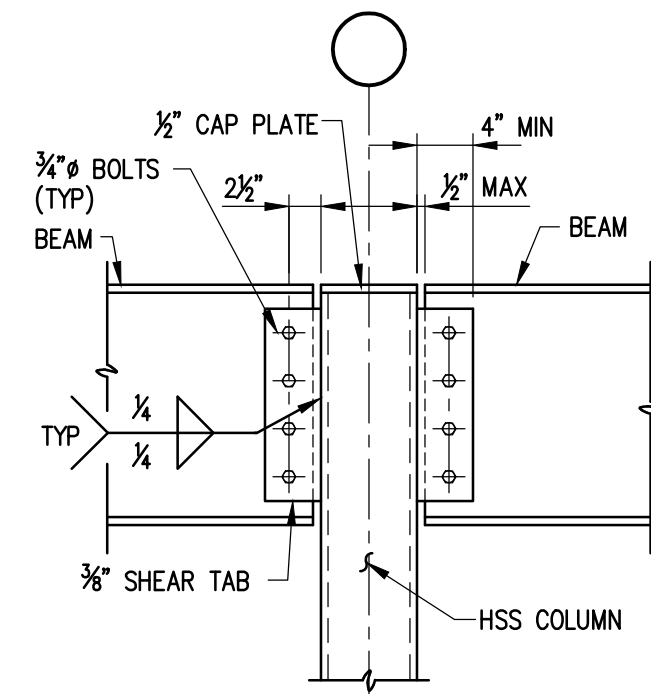


L.J. GRIFFIN FUNERAL HOME
 SCHEMATIC DESIGN
 NOV, MI

SHEET NO.
S4.5
 JOB NUMBER: 16238

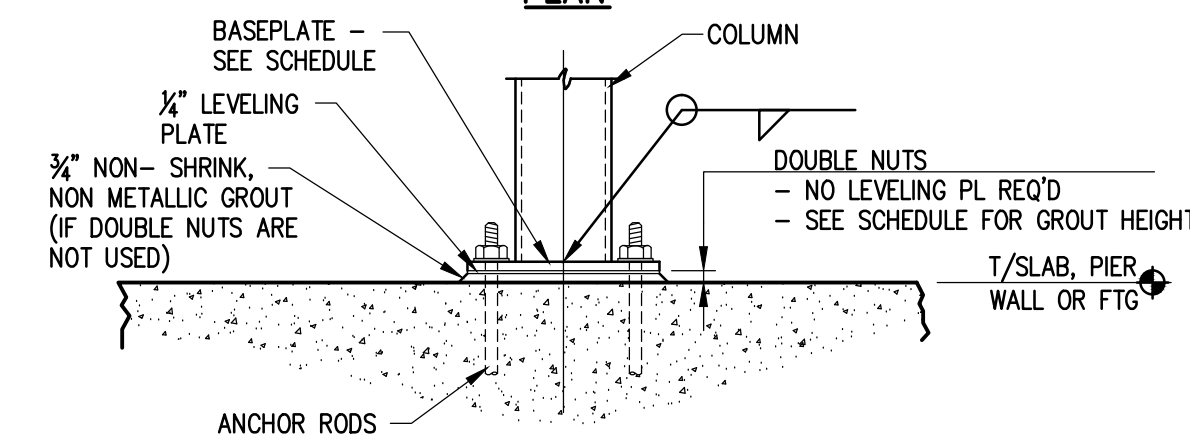
1717 East 116th Street, Suite 200
 Carmel, Indiana 46032
 317-580-0402
 www.mccomaseng.com
 Job No MEI 17056
C. Rodney McComas, P.E.

N:\17056 Griffin Funeral Home Nov MI\Drawings\Sheet\S4.5_17056.dwg (S4.5_17056.dwg) Plotted by Craig Riley at 8/17/2017 3:23:37 PM with plot 09/06



SIMPLE BEAM @ TOP OF COL

ANCHOR ROD	DOUBLE NUT GROUT HEIGHT	ANCHOR ROD	HOLE DIAMETER	EDGE DISTANCE
3/4"Ø	2"	3/4"Ø	1 1/8"Ø	1 1/2"
7/8"Ø	2"	7/8"Ø	1 3/8"Ø	1 3/4"
1"Ø	2"	1"Ø	1 1/2"Ø	2"
1 1/8"Ø	2"	1 1/8"Ø	1 5/8"Ø	2 1/4"
1 1/4"Ø	2"	1 1/4"Ø	1 3/4"Ø	2 1/2"
1 1/2"Ø	2"	1 1/2"Ø	2"Ø	3"
2"Ø	3"	2"Ø	2 1/2"Ø	4"
2 1/2"Ø	3"	2 1/2"Ø	3"Ø	4 1/2"

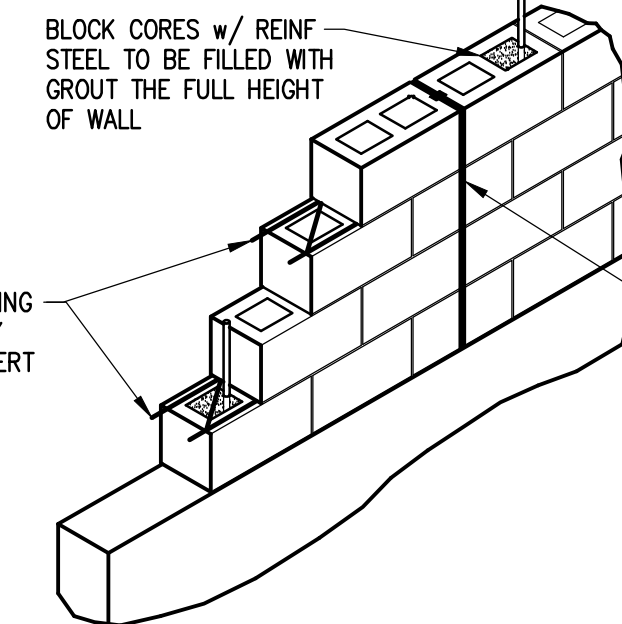


TYPICAL COLUMN BASE DETAIL

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

STL-002 S4.6

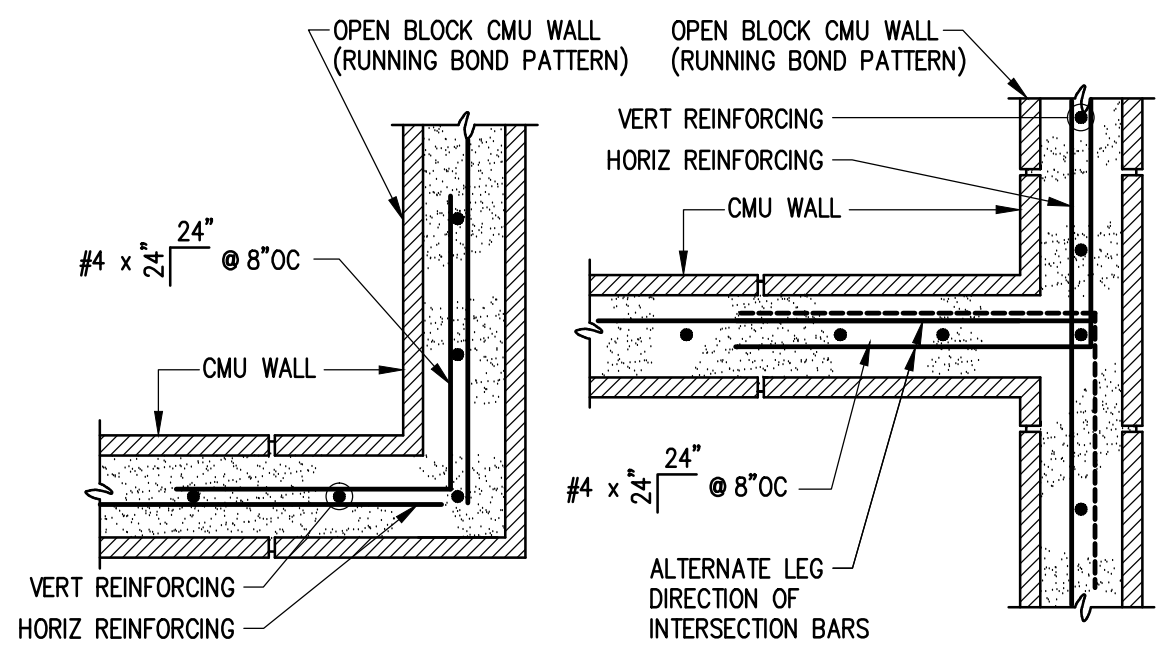
SEE PLAN FOR VERTICAL REINFORCING SIZE AND SPACING LAP BARS 48 DIA AT SPLICES, EXTEND BARS 40 DIA INTO FOUNDATION WALL UNO



TYPICAL MASONRY WALL REINFORCING

SCALE: NTS

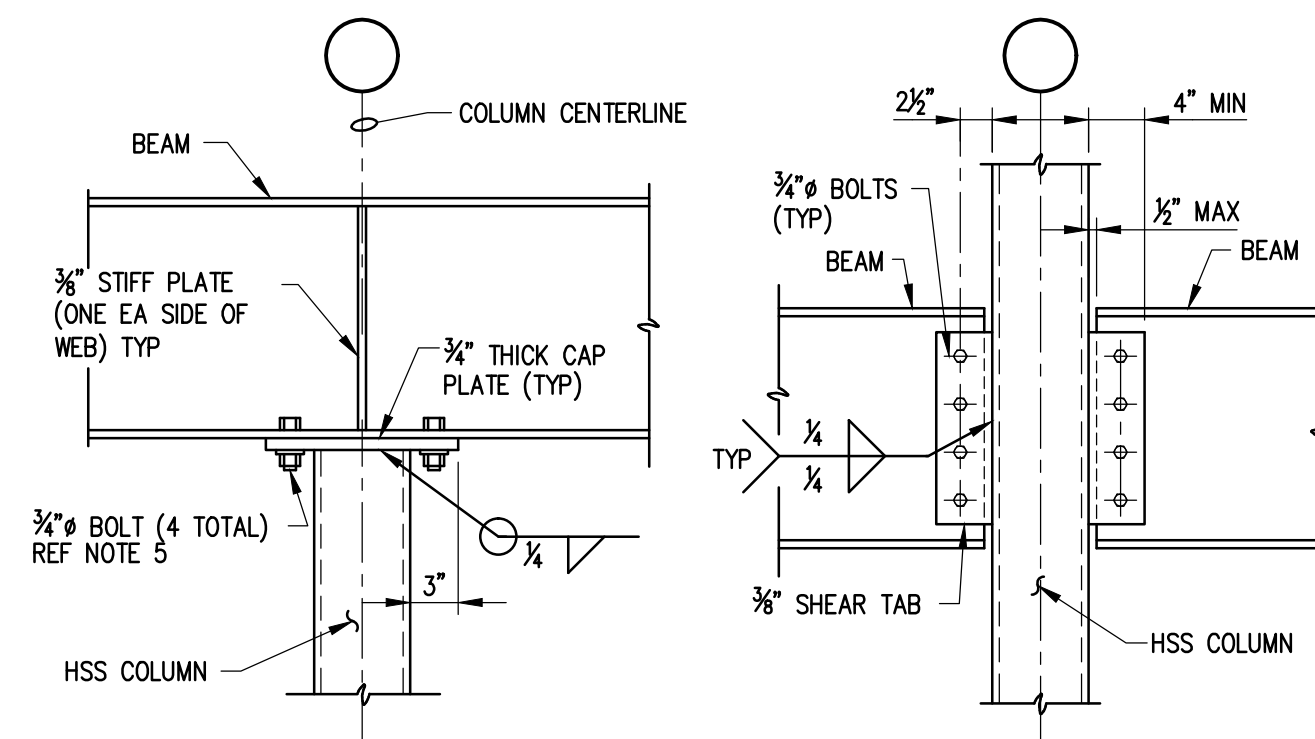
MAS-009 S4.6



TYPICAL BOND BEAM CORNER BAR DETAIL

SCALE: NTS

MAS-005 S4.6



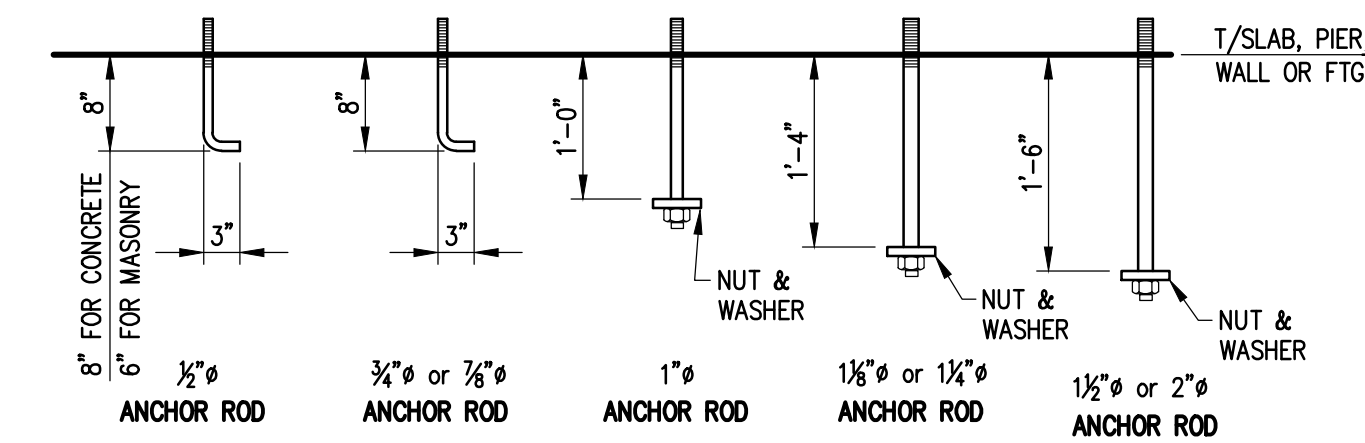
CONTINUOUS BEAM

SIMPLE BEAM (MID COLUMN)

TYPICAL STEEL BEAM CONNECTIONS

SCALE: NTS

STL-004 S4.6

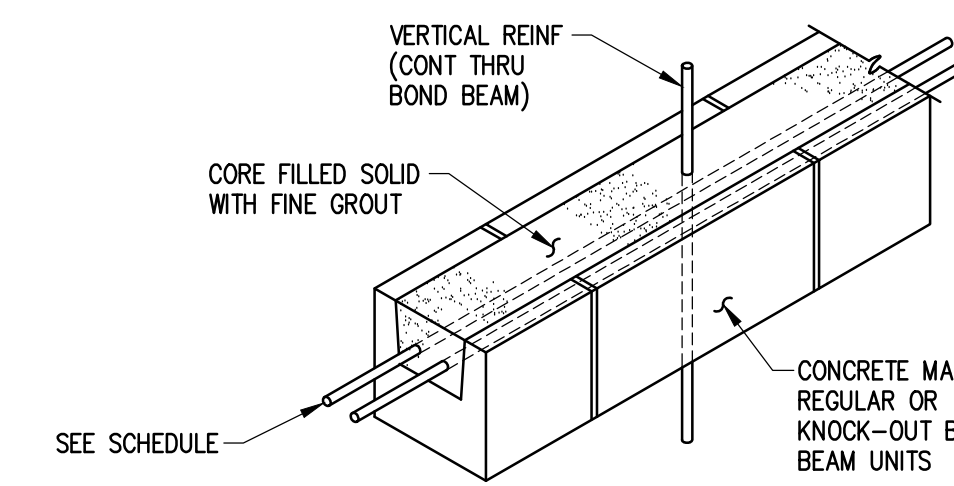


- NOTES:
- SEE SCHEDULE OR SECTIONS FOR REQUIRED ANCHOR ROD SIZE AND SPACING.
 - PROVIDE NUTS AND WASHERS FOR ALL ANCHOR RODS.

TYPICAL ANCHOR ROD DETAILS

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

STL-002A S4.6

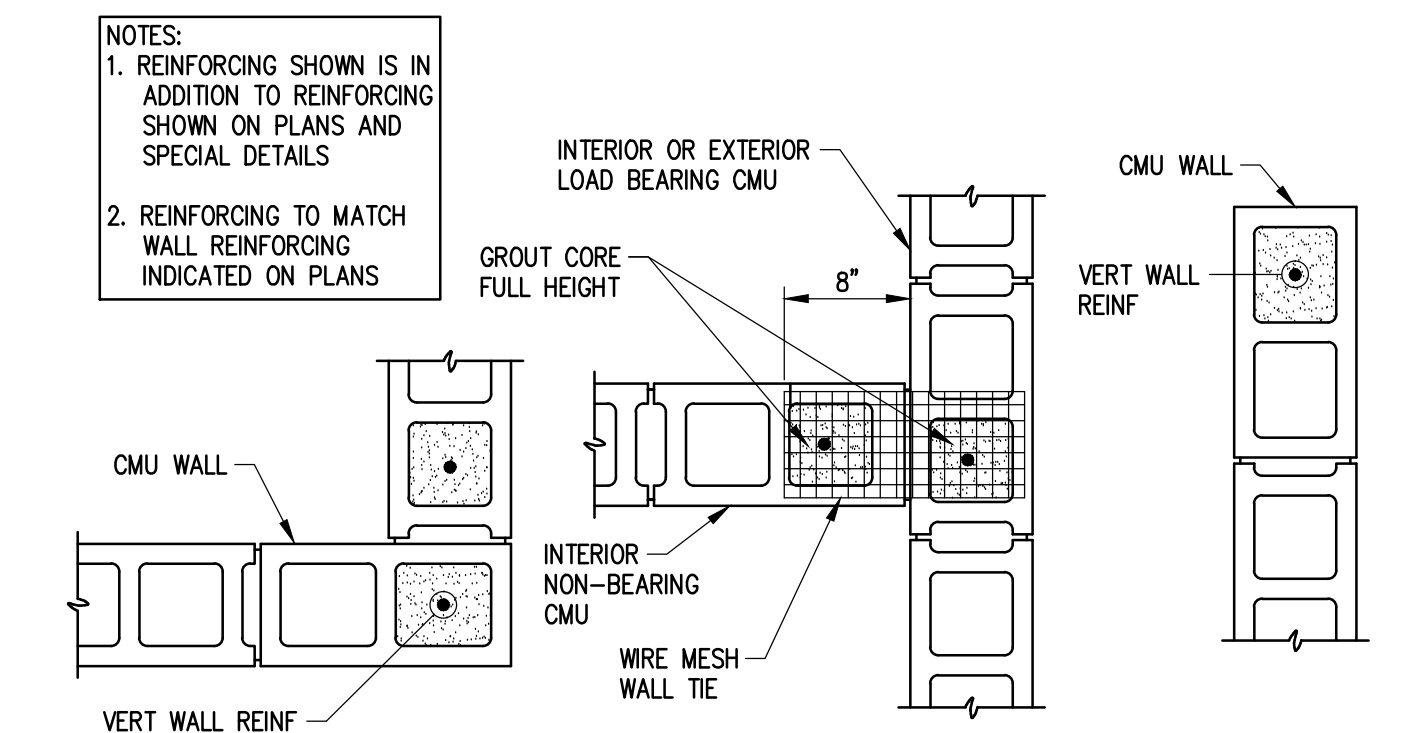


- NOTE:
- BOND BEAM REQUIRED AT 8'-0" MAXIMUM VERTICAL SPACING UNLESS NOTED OTHERWISE

TYPICAL BOND BEAM

SCALE: NTS

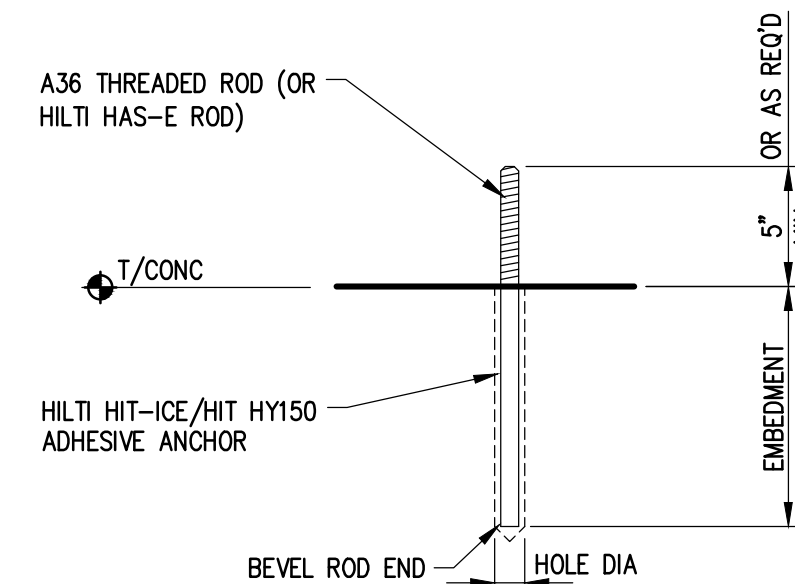
MAS-011A S4.6



TYPICAL MASONRY WALL REINFORCING

SCALE: NTS

MAS-007 S4.6



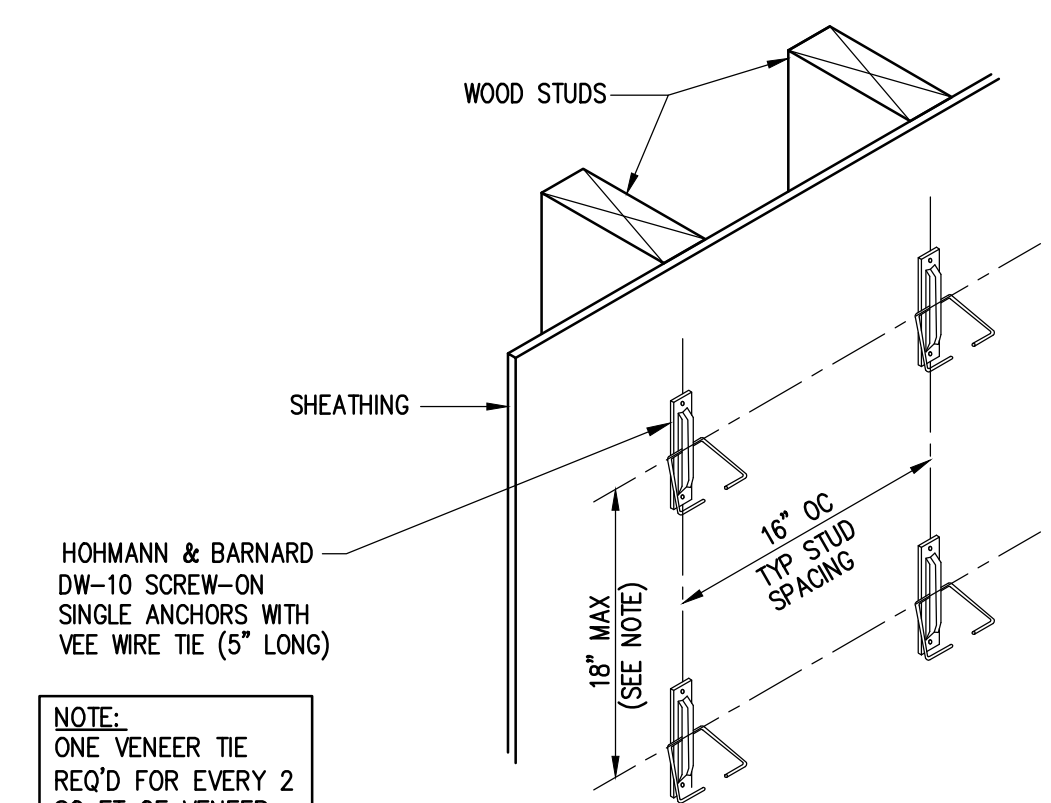
- NOTE:
- INSTALL RODS AND ADHESIVE IN ACCORDANCE W/ MFR'S INSTRUCTIONS.
 - CURE TIME OF 4 HOURS IS REQ'D @ 32° TEMP.

ANCHOR ROD DIAMETER	EMBEDMENT DEPTH	HOLE DIAMETER
3/4"	10"	1 3/8"
7/8"	11 1/4"	1 5/8"
1"	12 3/8"	1 3/4"
1 1/4"	15"	1 7/8"

ANCHOR ROD REPLACEMENT DETAIL

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

STL-081 S4.6

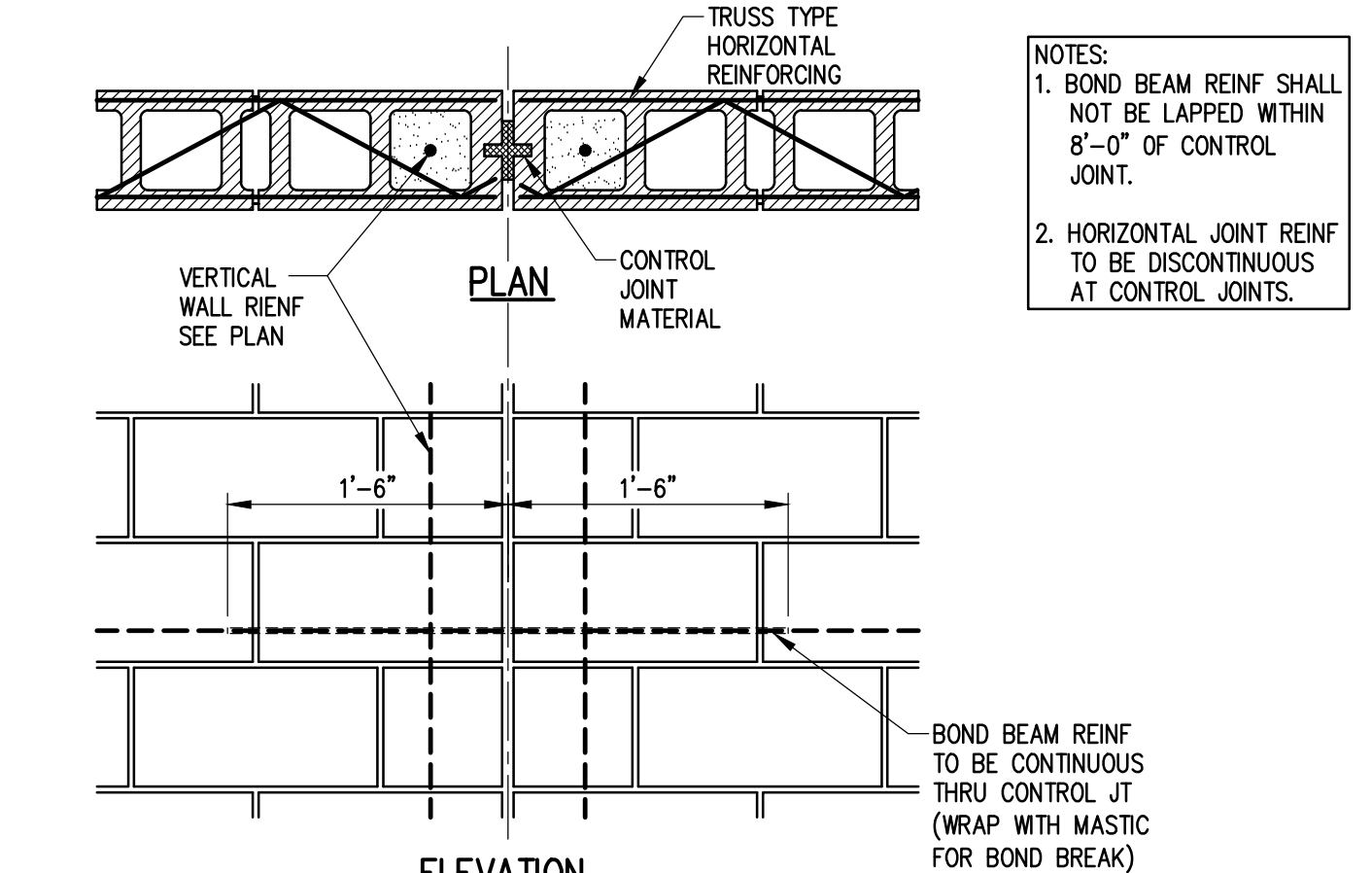


- NOTE:
- ONE VENEER TIE REQ'D FOR EVERY 2 SQ FT OF VENEER

VENEER ANCHOR

SCALE: NTS

MAS-021 S4.6



- NOTES:
- BOND BEAM REINF SHALL NOT BE LAPPED WITHIN 8'-0" OF CONTROL JOINT.
 - HORIZONTAL JOINT REINF TO BE DISCONTINUOUS AT CONTROL JOINTS.

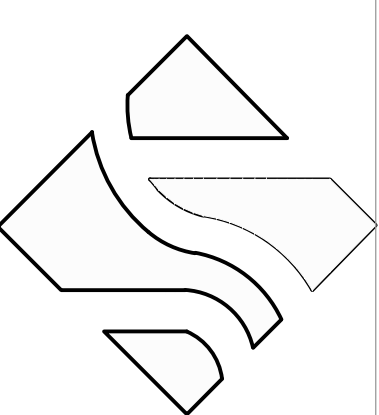
TYPICAL MASONRY CONTROL JOINT

SCALE: NTS (SEE ARCHITECTURAL FOR LOCATION)

MAS-008 S4.6

ISSUE DATE:
08-21-2017
PERMIT/CONSTRUCTION
STAMPING SET
3/2/2018
REVISION:

JST ARCHITECTS
ARCHITECTURE | PLANNING | INTERIORS | CEMETERY INTERIORS
WWW.JSTARARCHITECTS.COM
J. STUART TODD, INC.
2919 WELBORN STREET, SUITE 101, DALLAS, TEXAS 75219 | 214.522.4033
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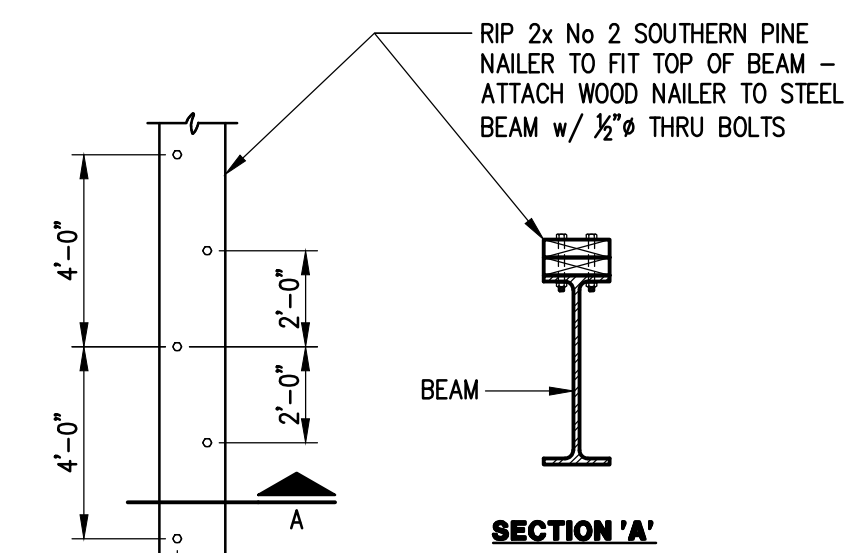
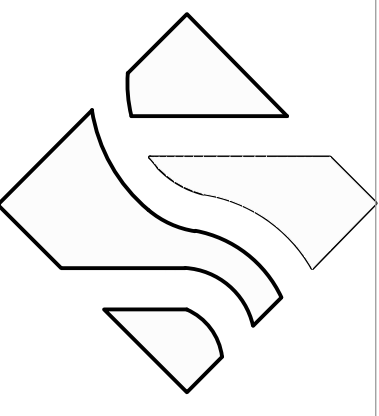


L.J. GRIFFIN FUNERAL HOME
SCHEMATIC DESIGN
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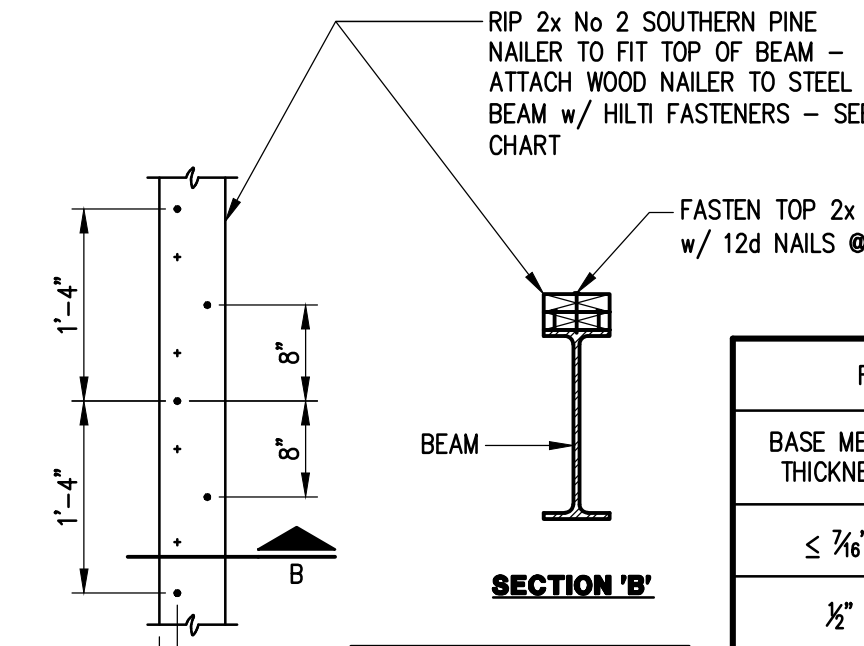
SHEET NO.
S4.6
JOB NUMBER: 16238

1717 East 116th Street, Suite 200
Carmel, Indiana 46032
317-580-0402
www.mccomaseng.com
Job No MEI 17056
C. Rodney
McComas, P.E.

N:\17056 Griffin Funeral Home Nov MI\Drawing\Sheet\S4.6_17056.dwg (S4.6_17056.dwg) Plotted by Craig Riley at 8/17/2017 3:23:42 PM with plot 0106



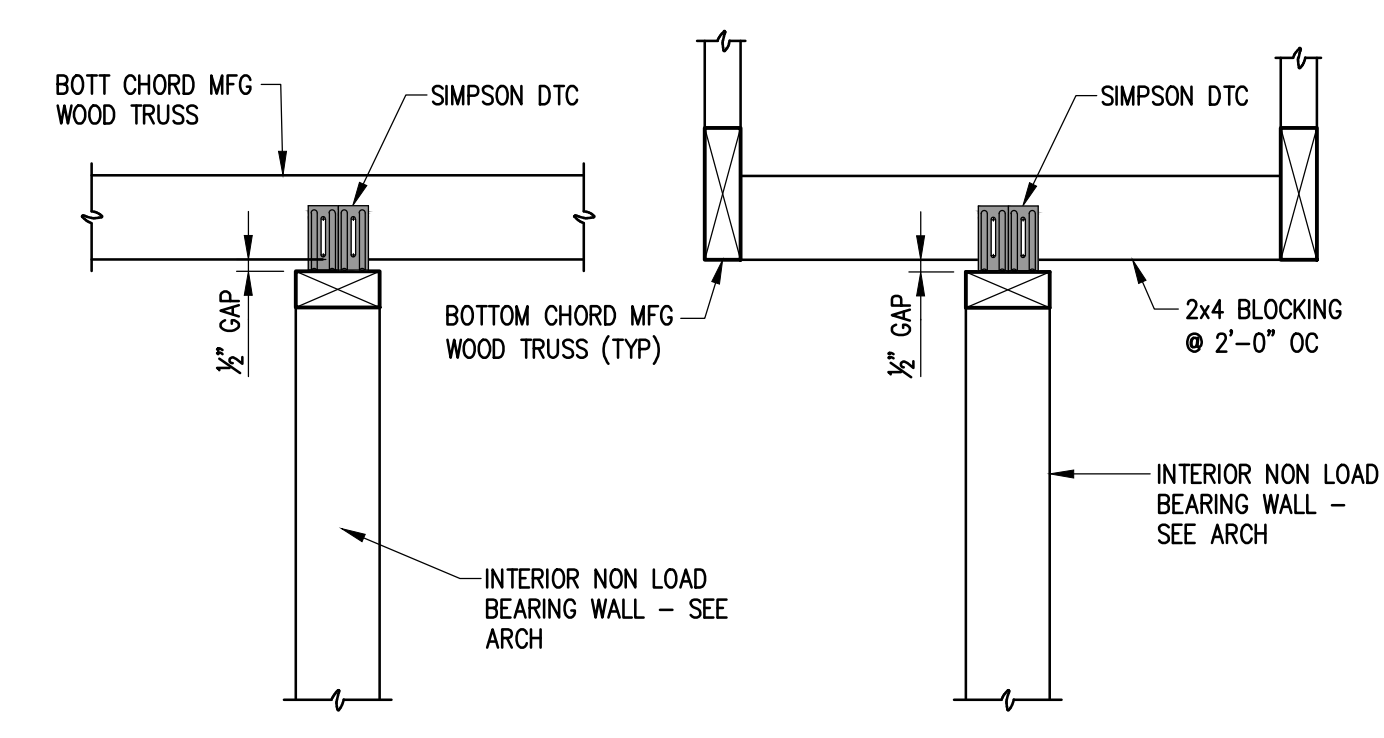
OPTION 1
NOTE: THIS DETAIL REQ'D AT ALL BEAM FLANGES EXCEEDING 1/2" IN THICKNESS



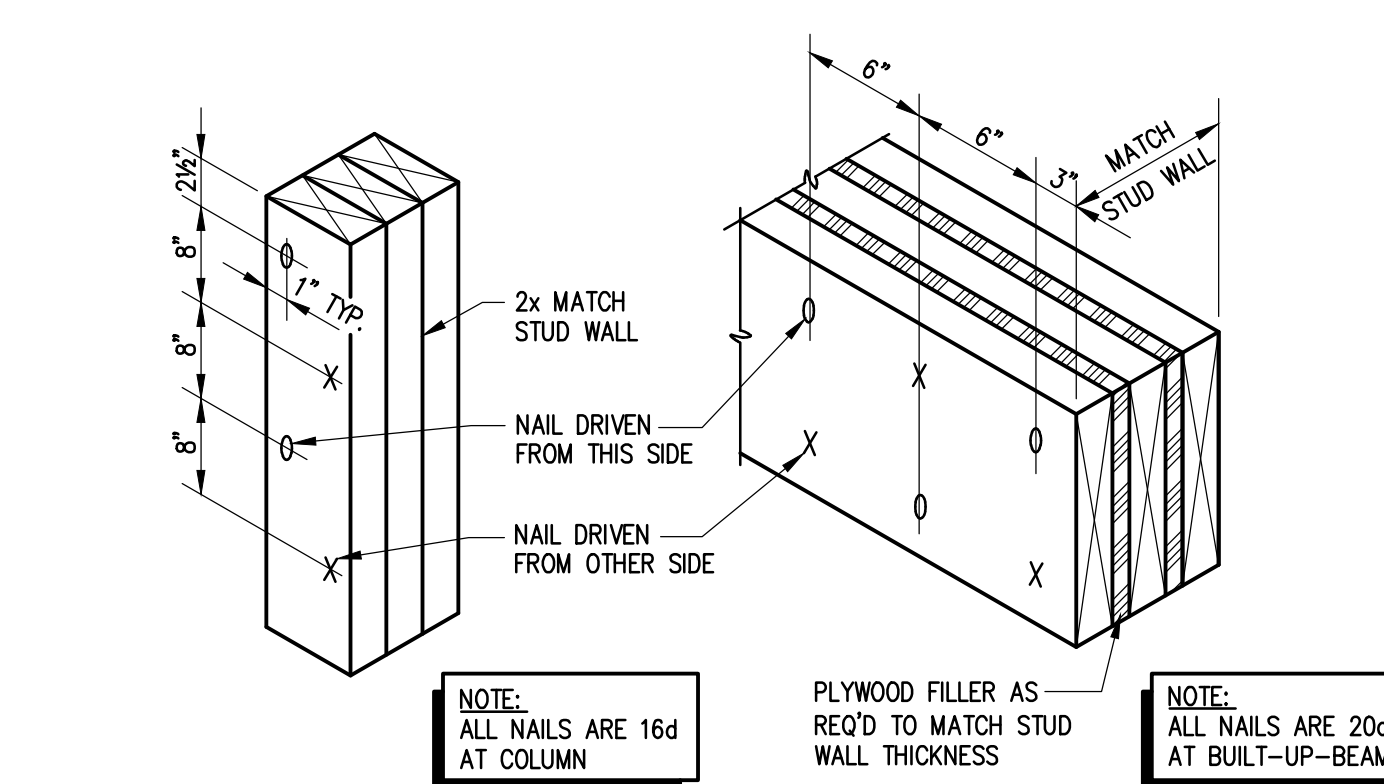
OPTION 2
INDICATES HILTI FASTENER
INDICATES 12d NAILS

FASTENING SELECTION	
BASE METAL THICKNESS	HILTI FASTENER
≤ 3/8"	27MM LONG X-U
1/2"	2MM LONG DS
> 1/2"	USE OPTION 1, ABOVE

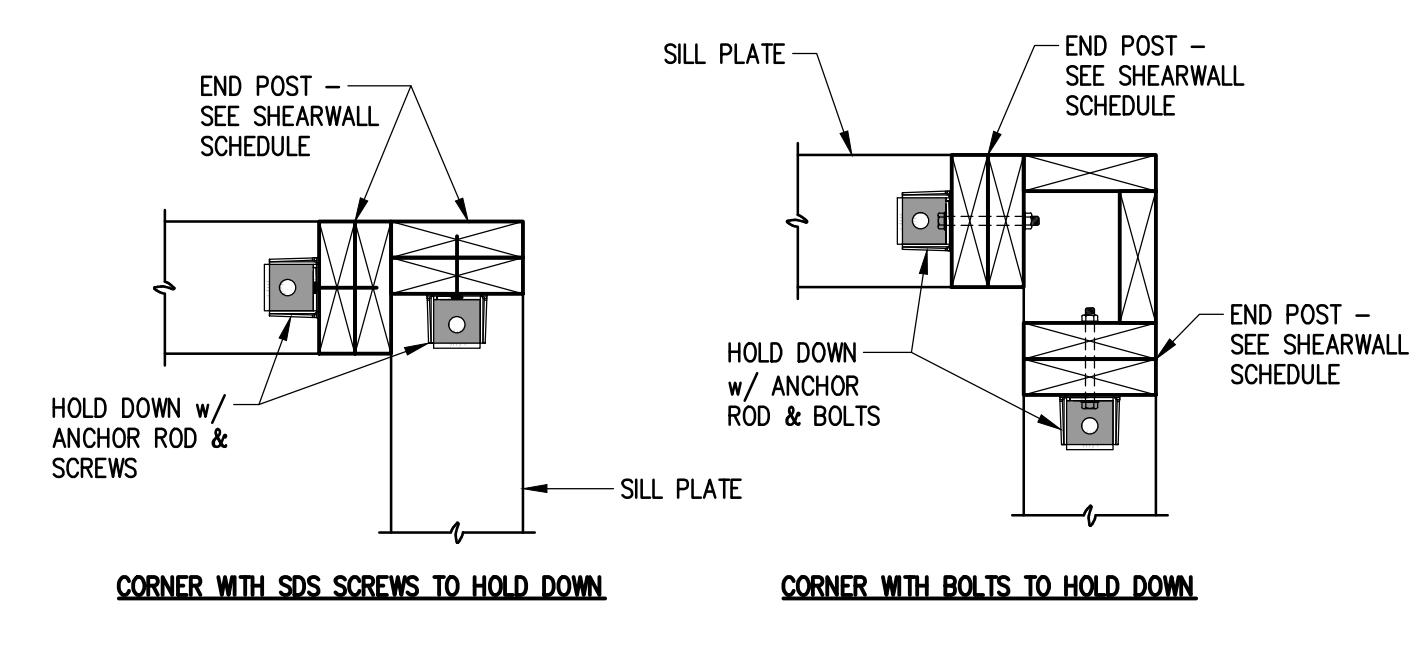
TYPICAL NAILER TO STEEL BEAM DETAILS
SCALE: NOT TO SCALE



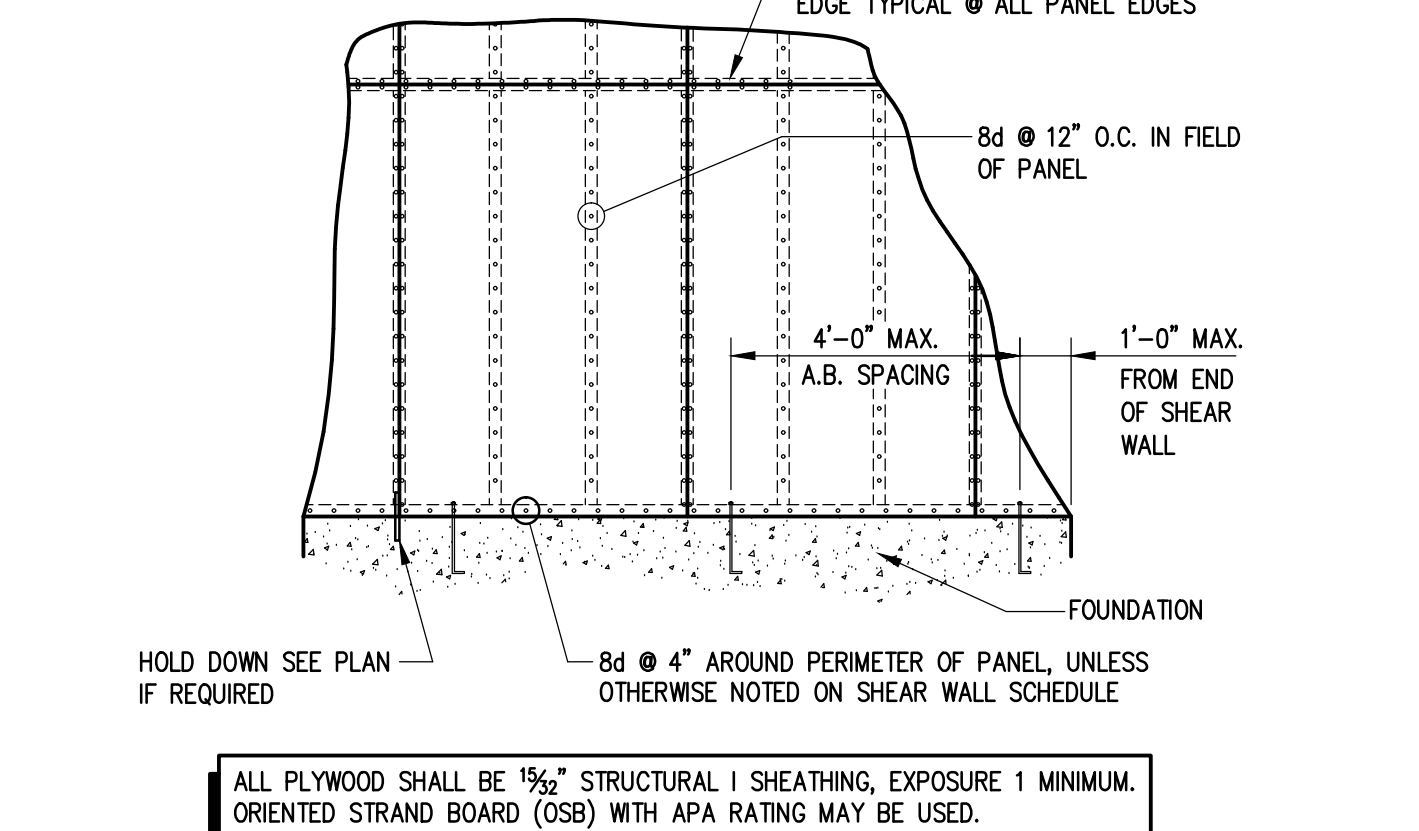
NON LOAD BEARING - INTERIOR WALL
SCALE: NOT TO SCALE



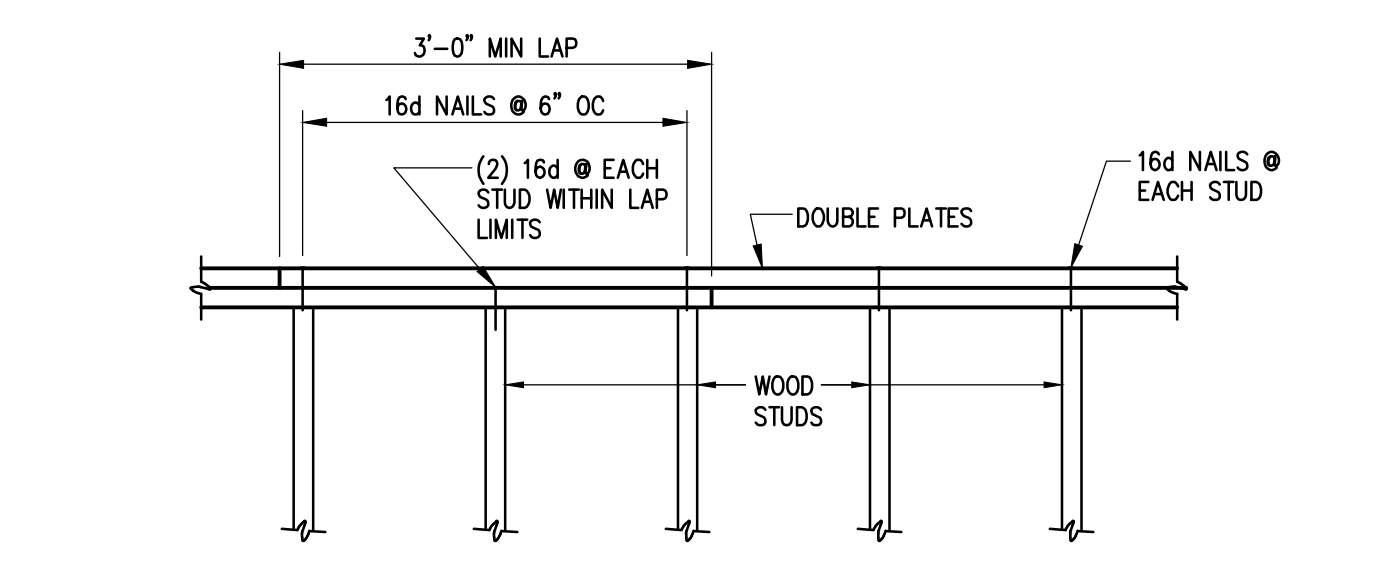
TYPICAL BUILT-UP COLUMN
TYPICAL BUILT-UP BEAM
SCALE: NOT TO SCALE



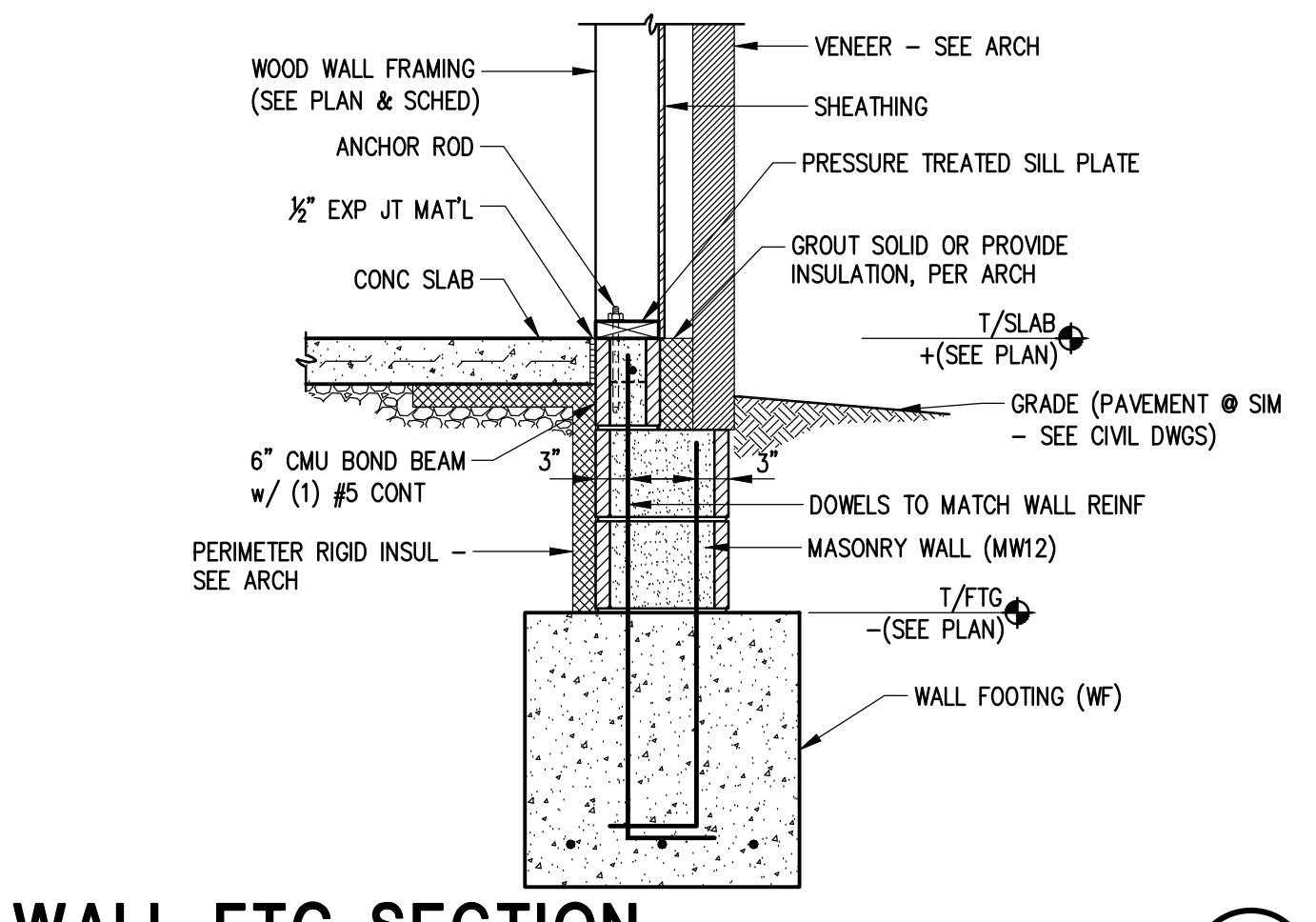
SILL PLATE DETAIL AT HOLD DOWN
SCALE: NOT TO SCALE



TYPICAL PLYWOOD SHEARWALL
SCALE: NOT TO SCALE

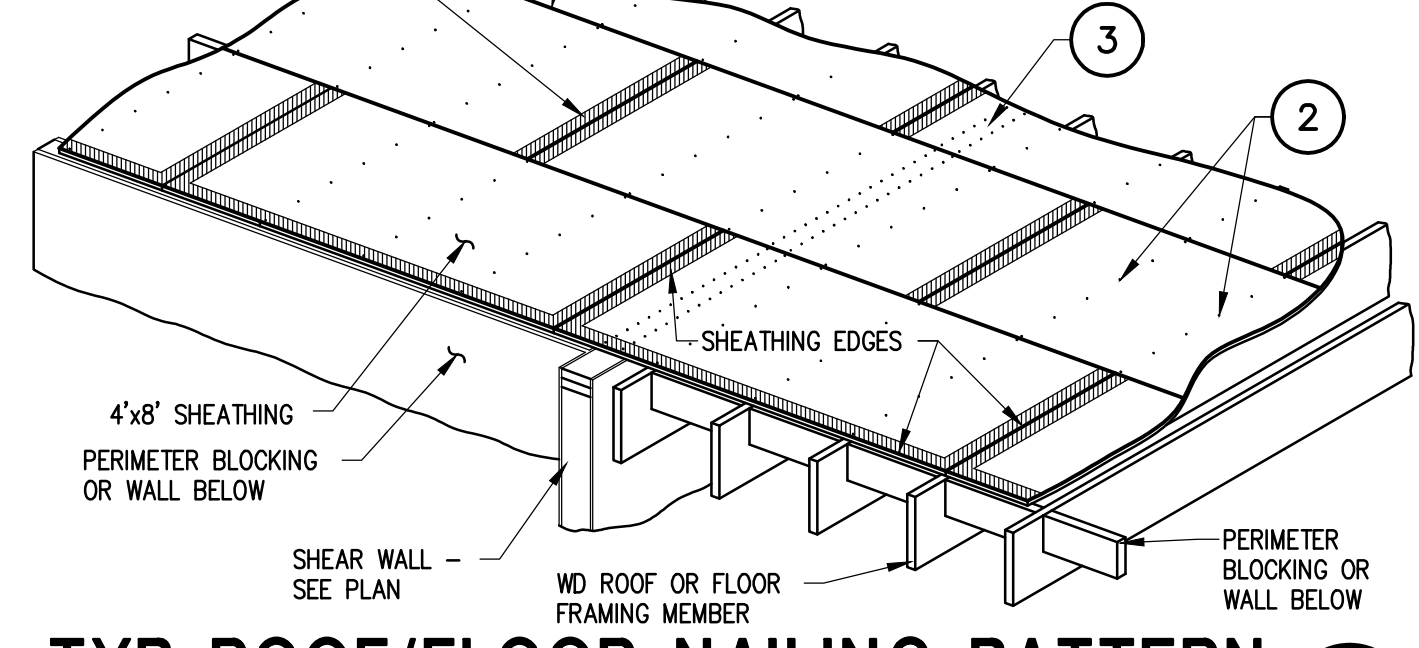


TYP DOUBLE TOP PLATE SPLICE
SCALE: 3/4" = 1'-0"

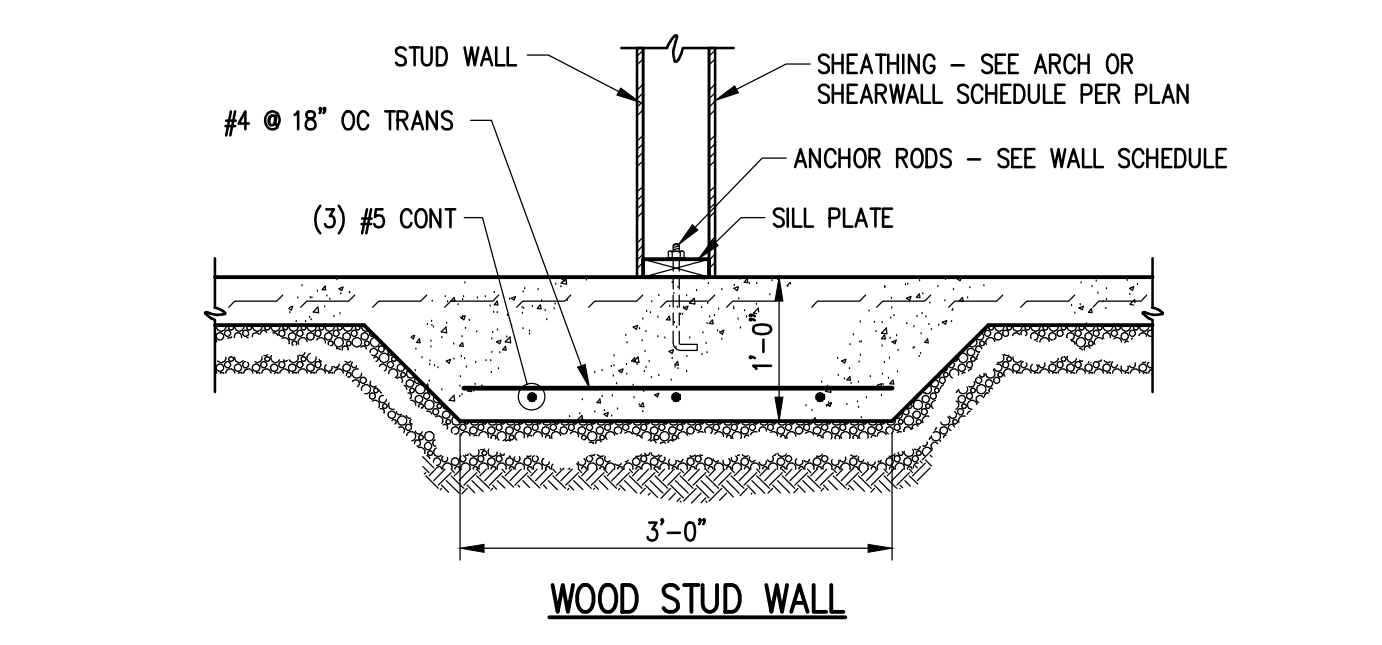


WALL FTG SECTION
SCALE: 3/4" = 1'-0"

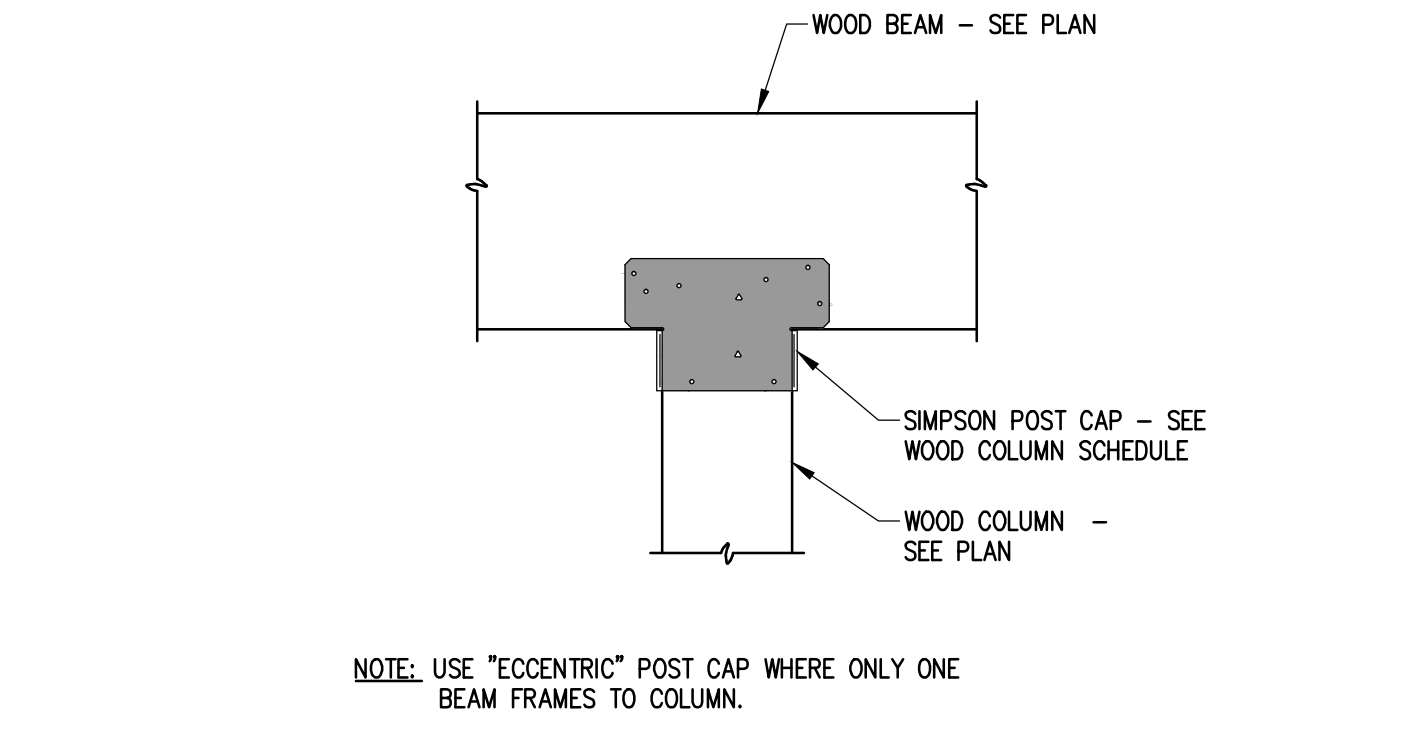
NAILING SCHEDULE		
LOCATION	FASTENING	REMARKS
① EDGE	10d @ 6" OC	
② FIELD	10d @ 12" OC	
③ SHEAR WALL	(2) 10d @ 6" OC	



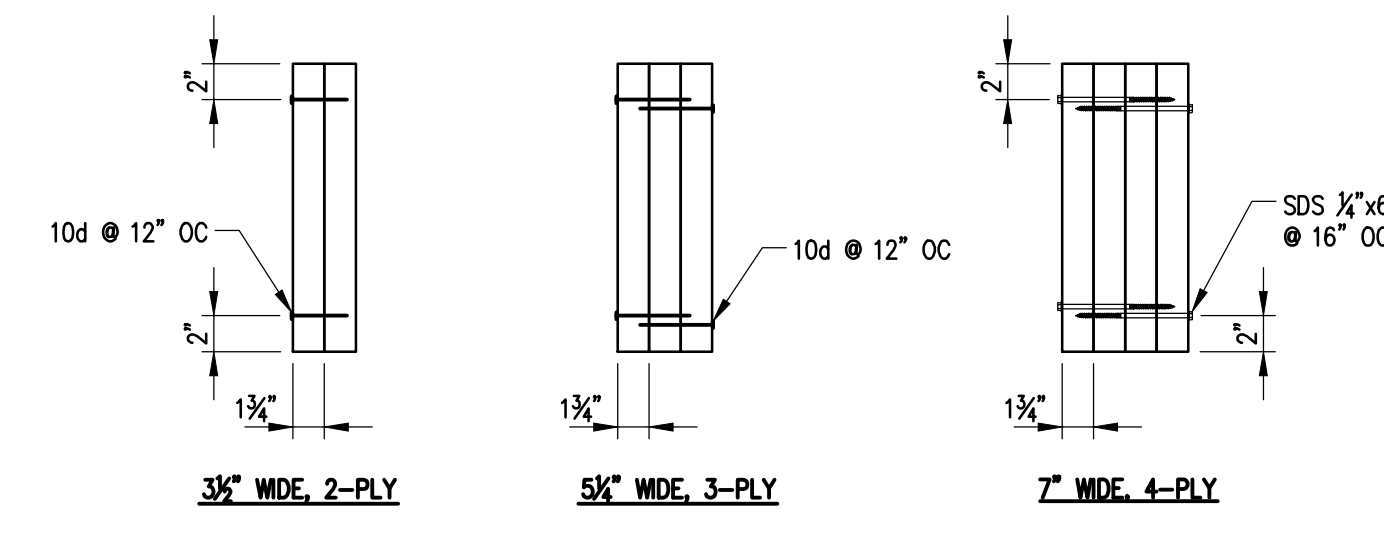
TYP ROOF/FLOOR NAILING PATTERN
SCALE: NTS (UNBLOCKED DIAPHRAGM)



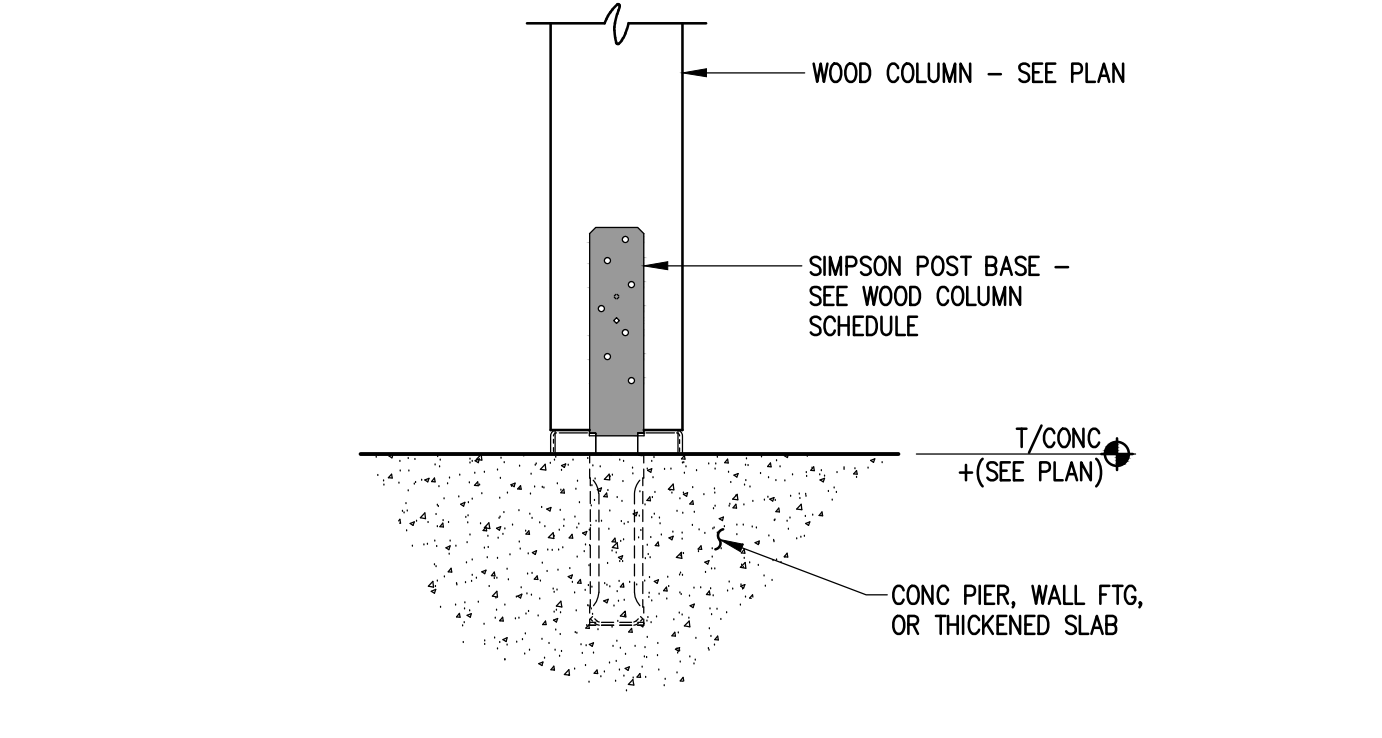
TYP THICKENED SLAB @ INTERIOR BRG WALL
SCALE: NOT TO SCALE



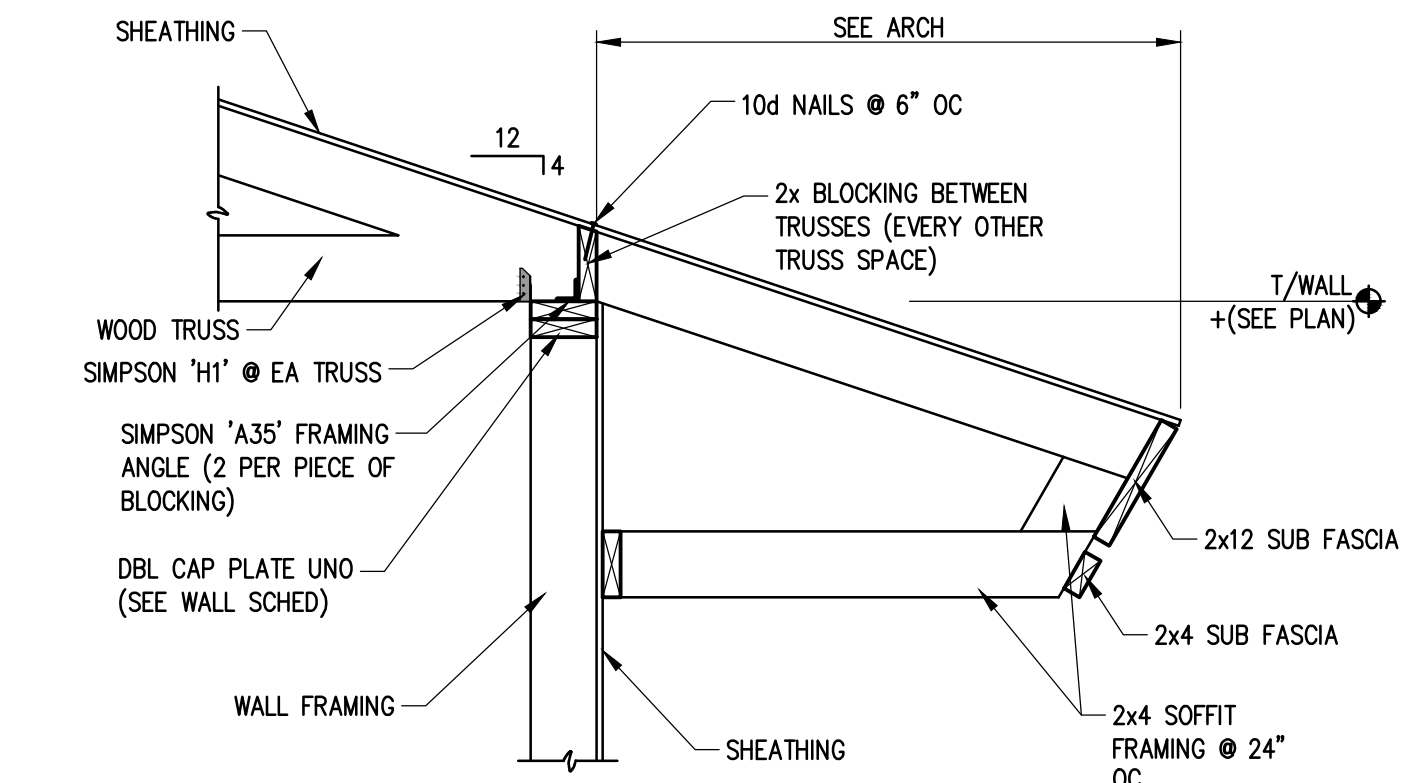
POST CAP DETAIL
SCALE: NOT TO SCALE



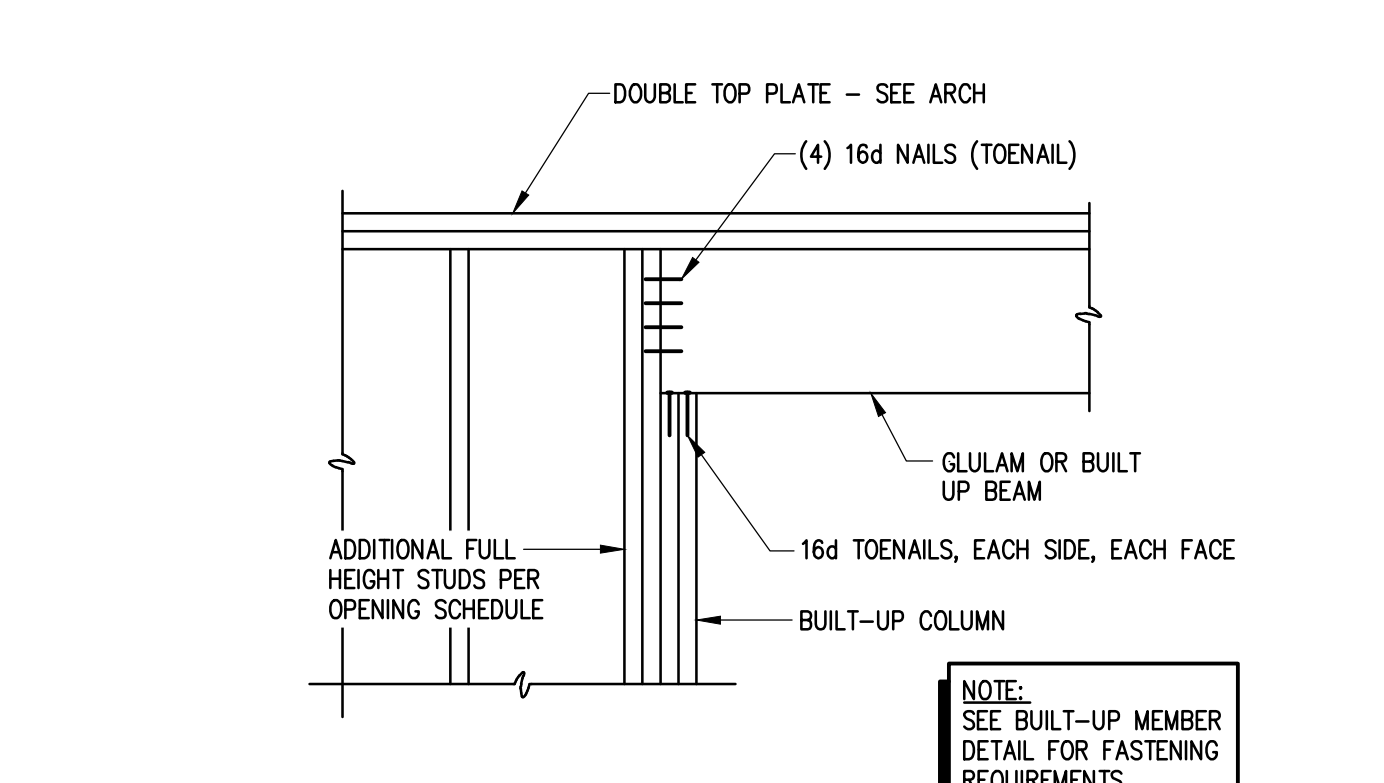
BUILT-UP LVL BEAMS
SCALE: NOT TO SCALE



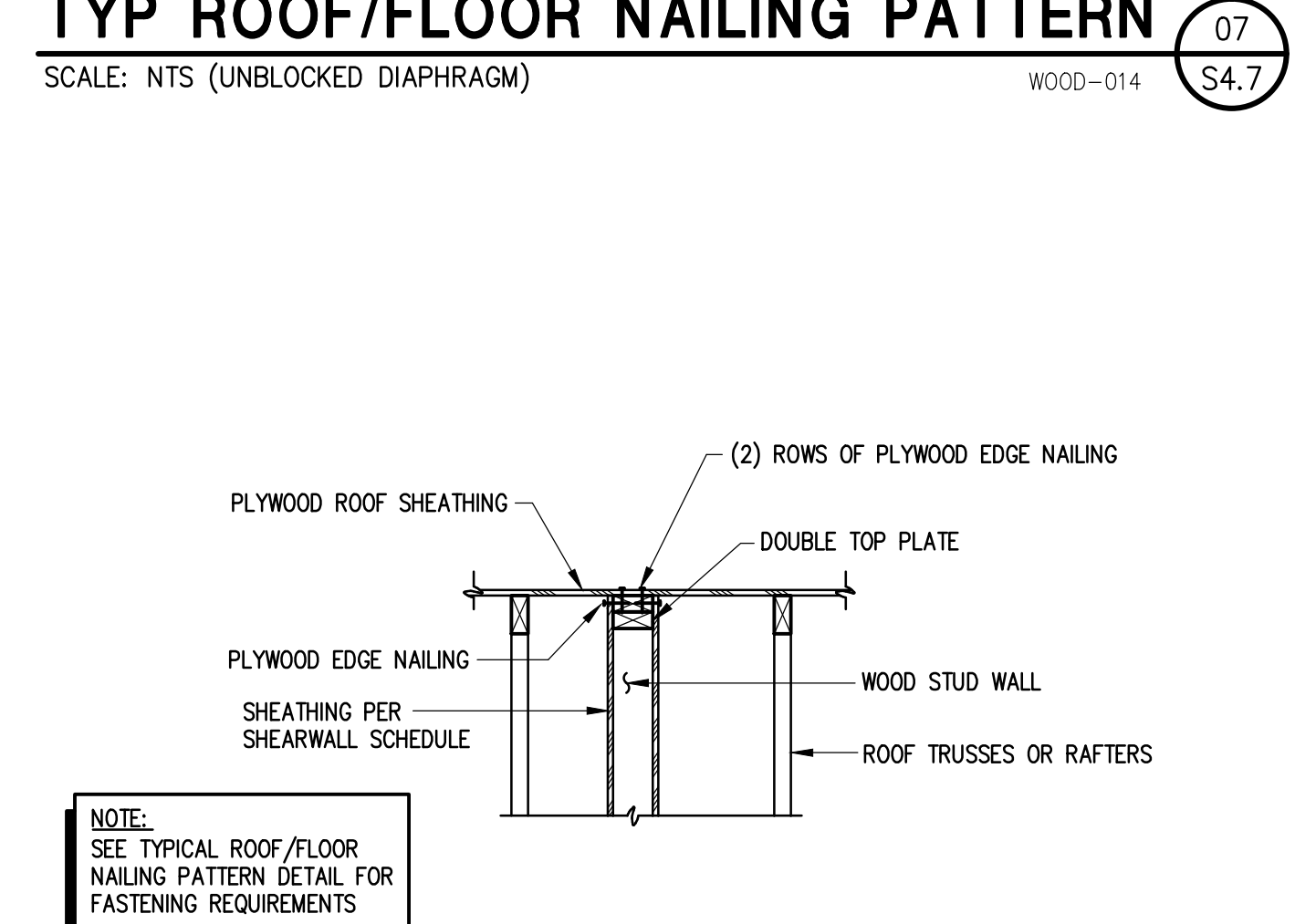
POST BASE DETAIL
SCALE: NOT TO SCALE



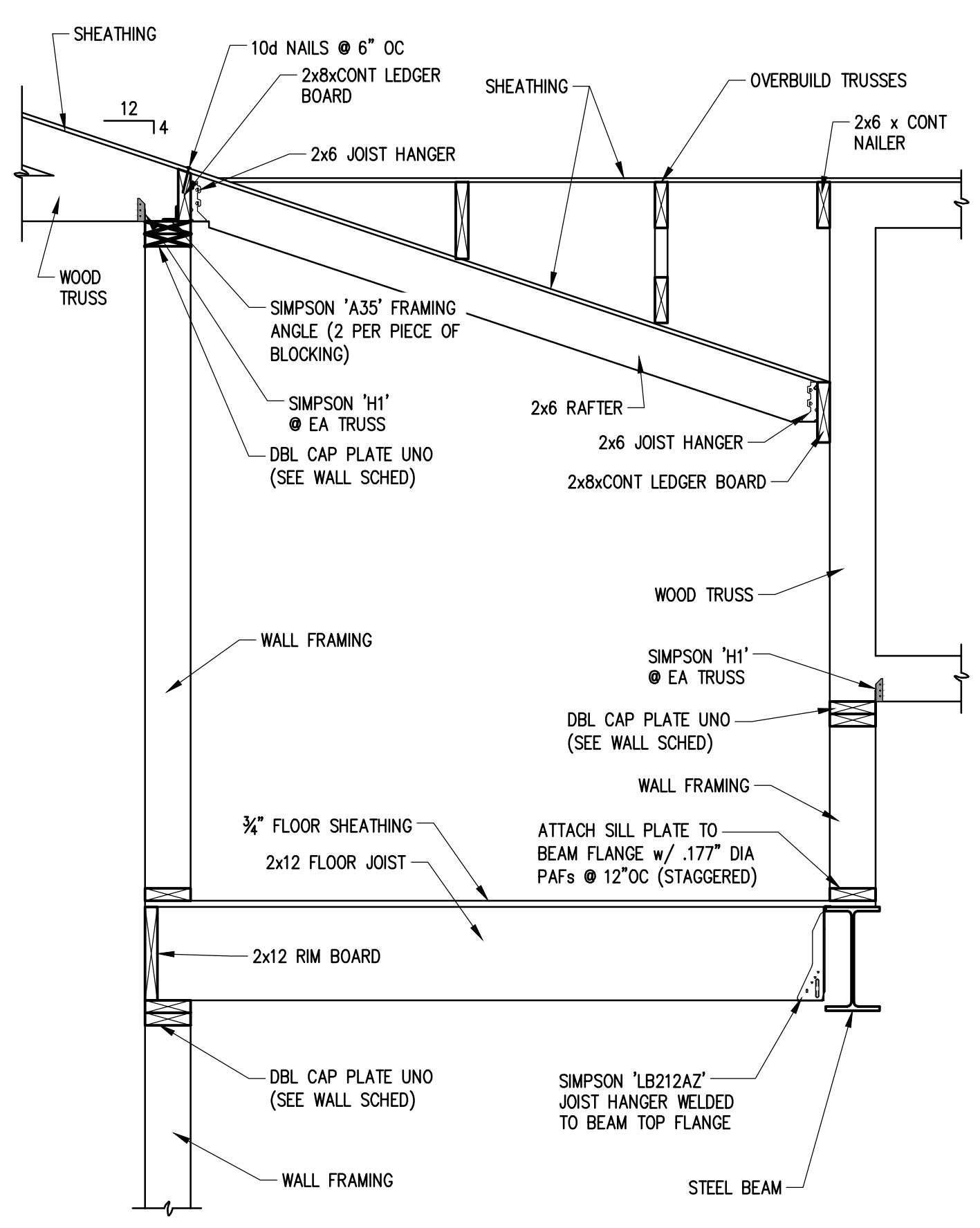
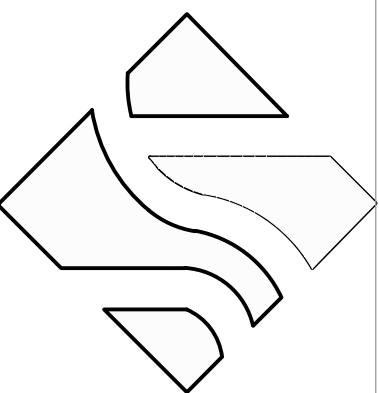
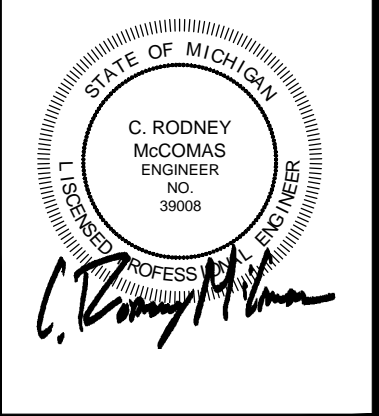
TYP ROOF SECTION
SCALE: 3/4" = 1'-0"



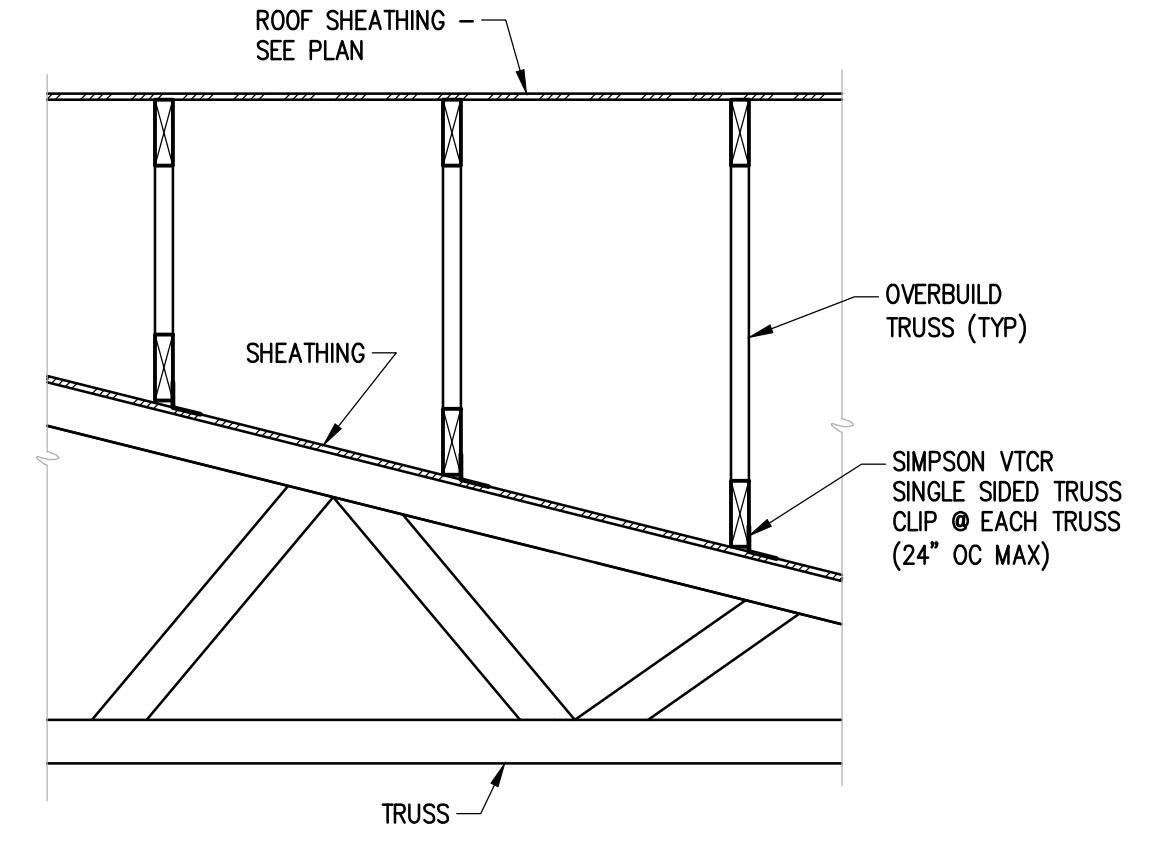
TYPICAL BEAM BEARING
SCALE: 3/4" = 1'-0"



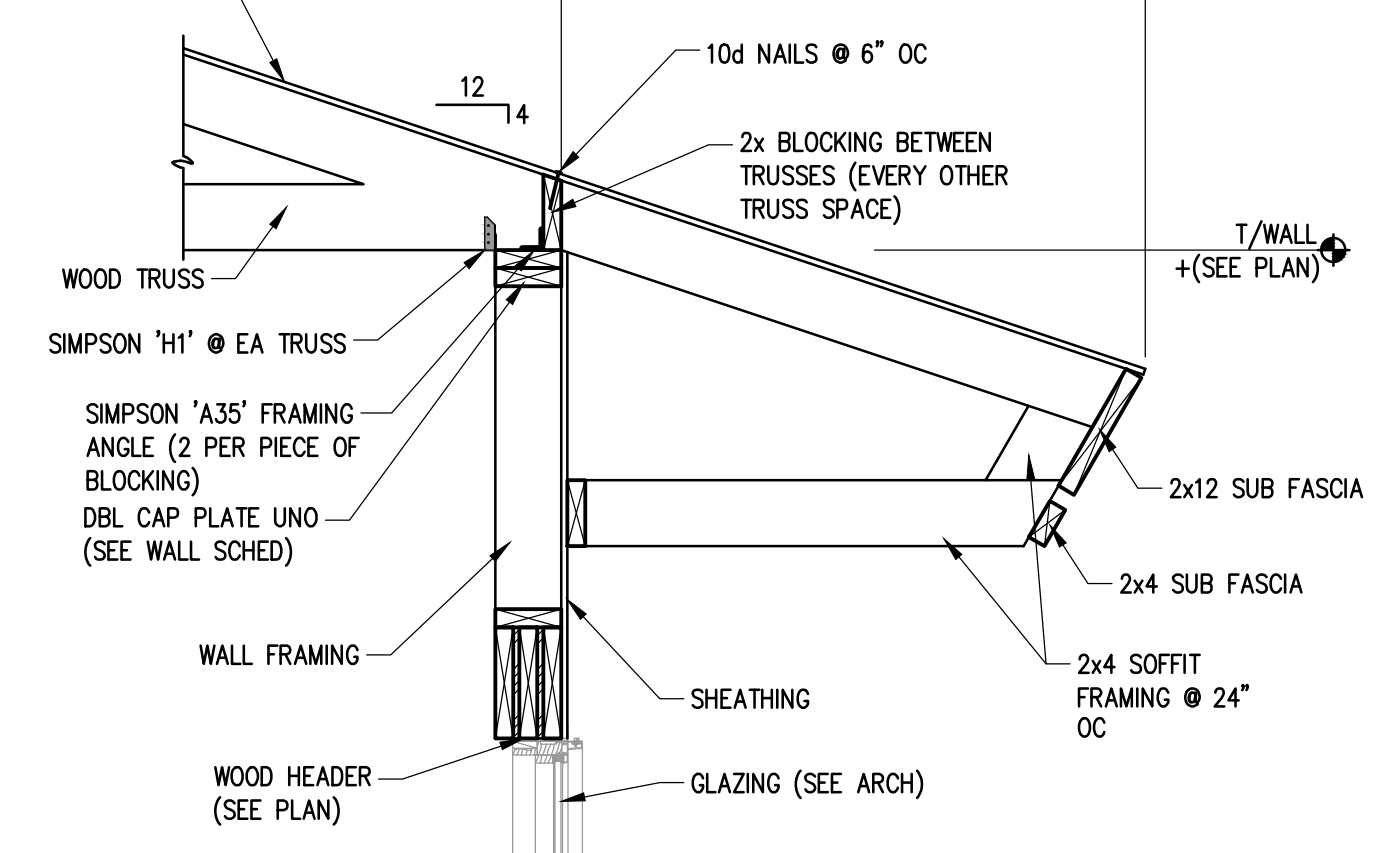
SHEARWALL AT ROOF
SCALE: NOT TO SCALE



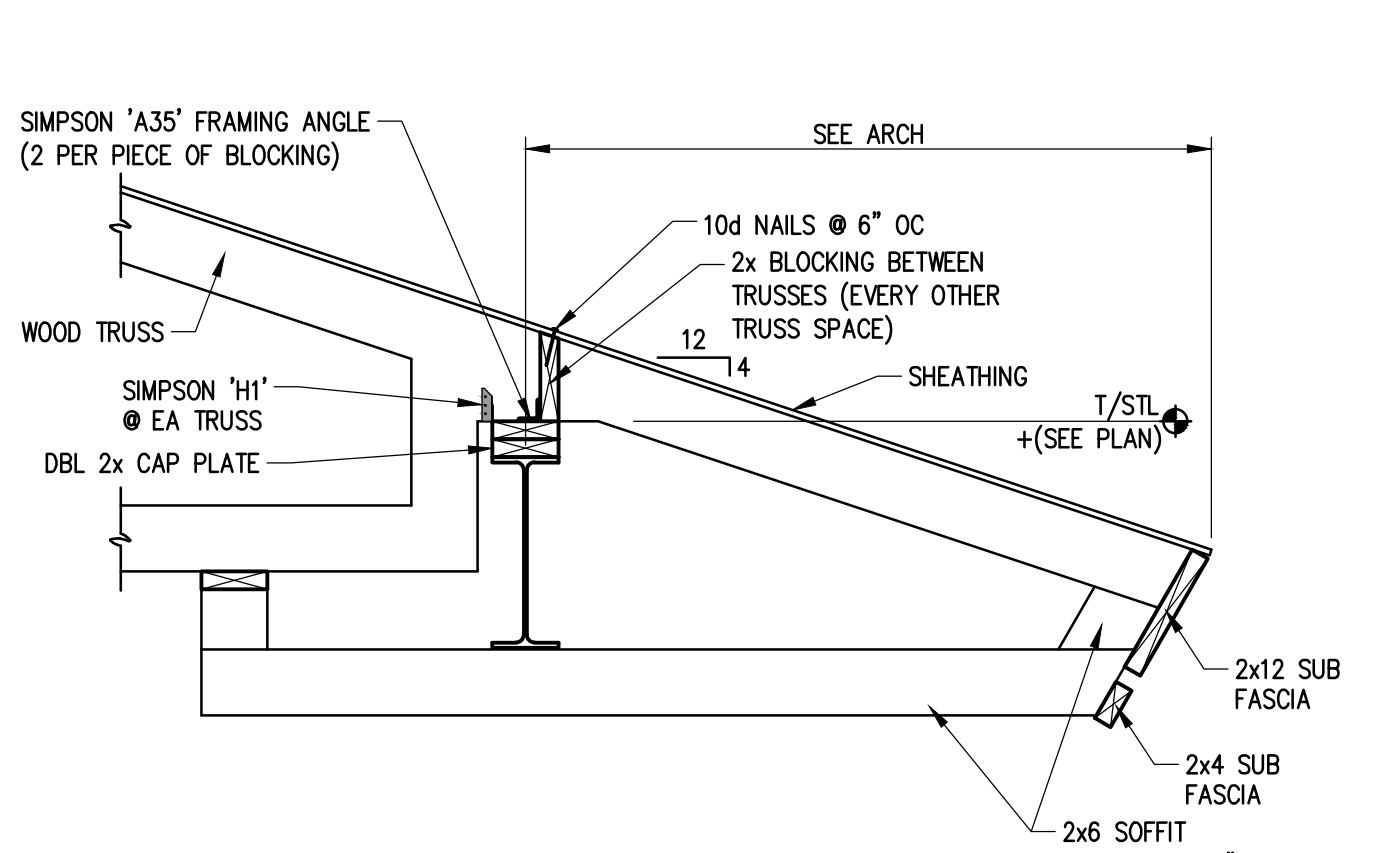
SECTION @ MECH MEZZANINE
 SCALE: 3/4" = 1'-0"
 DET013_17056 S4.8



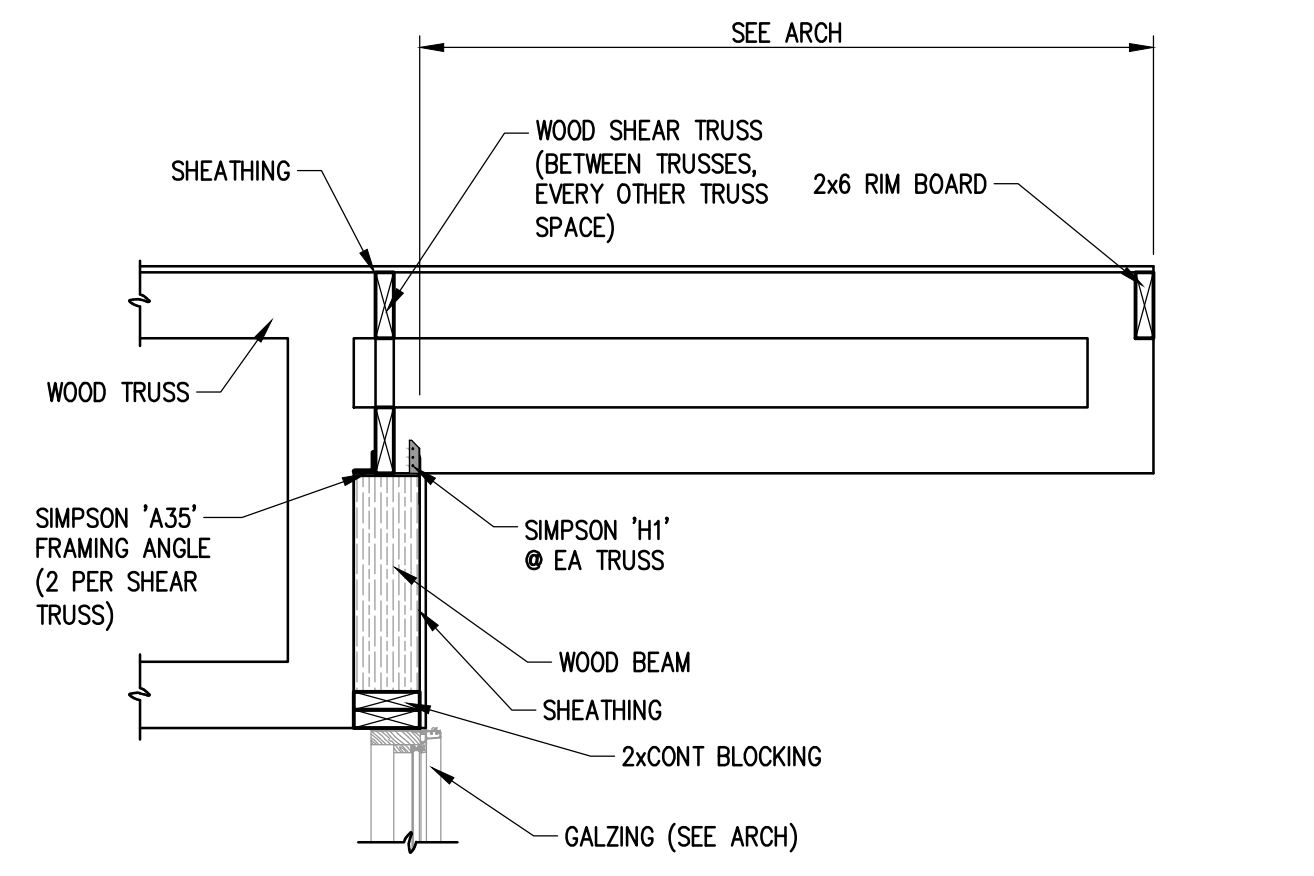
TYP OVERBUILD TRUSS DETAIL
 SCALE: 3/4" = 1'-0"
 DET008_17056 S4.8



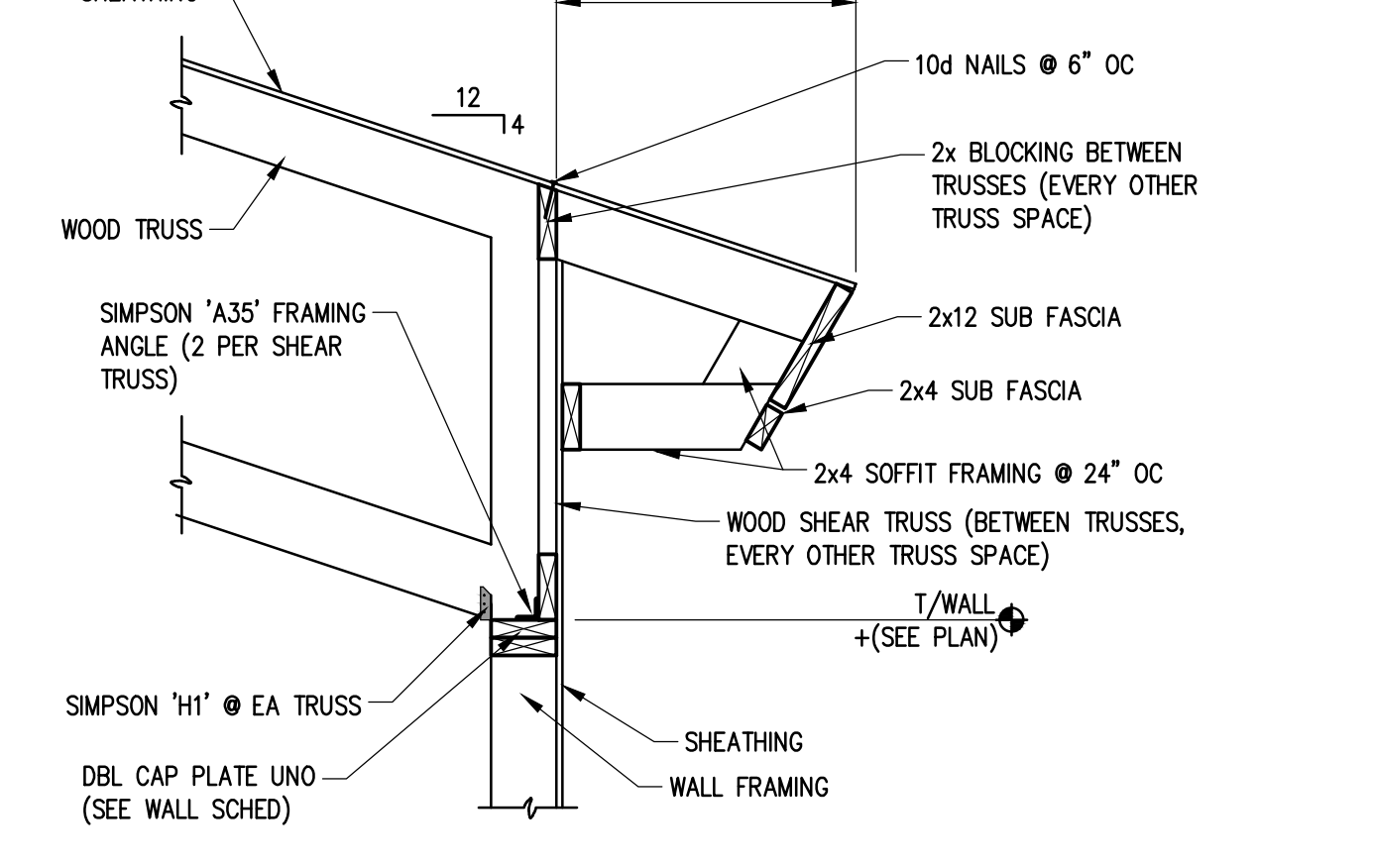
TYP ROOF SECTION @ WINDOW
 SCALE: 3/4" = 1'-0"
 DET004_17056 S4.8



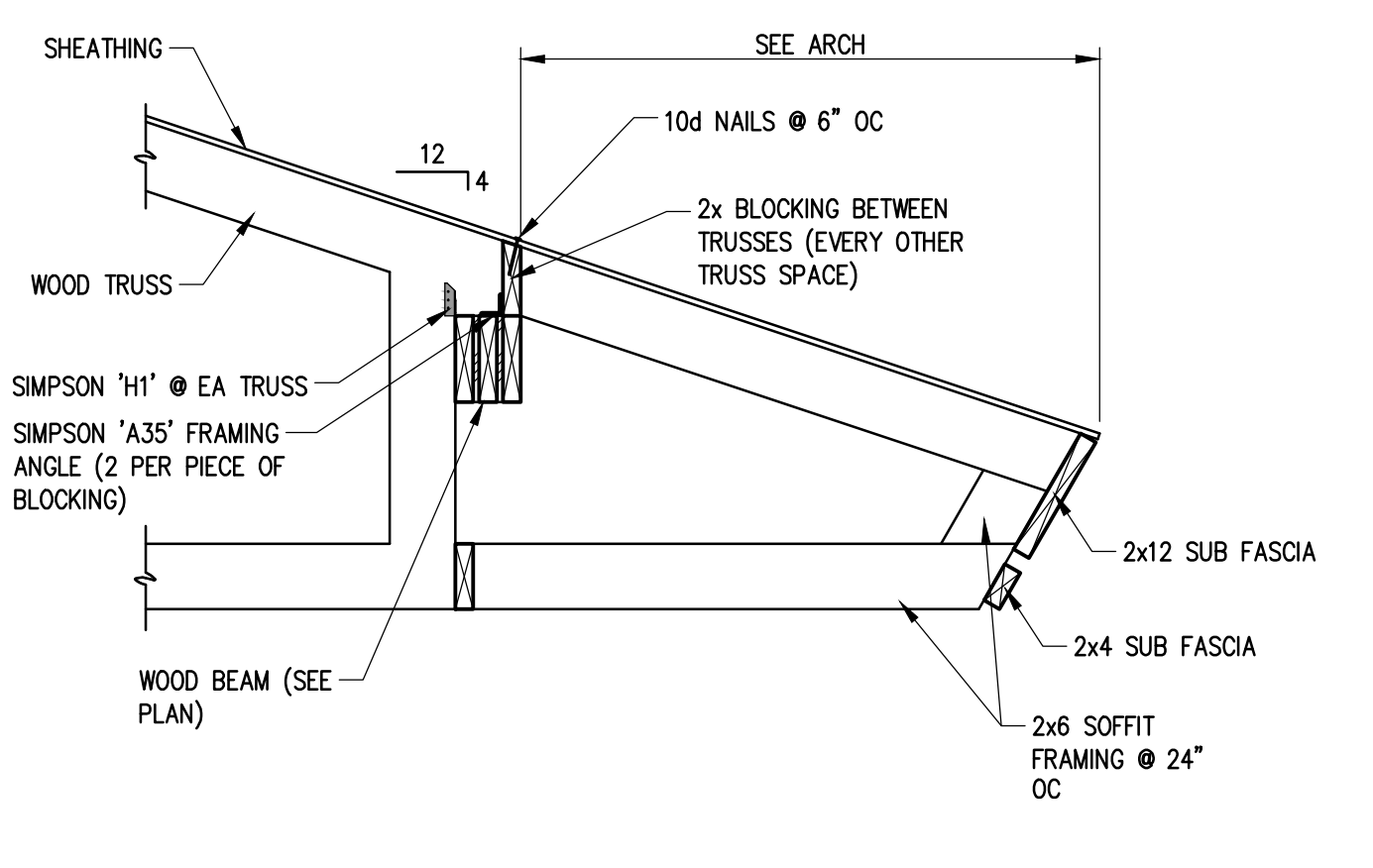
ROOF SECTION
 SCALE: 3/4" = 1'-0"
 DET001_17056 S4.8



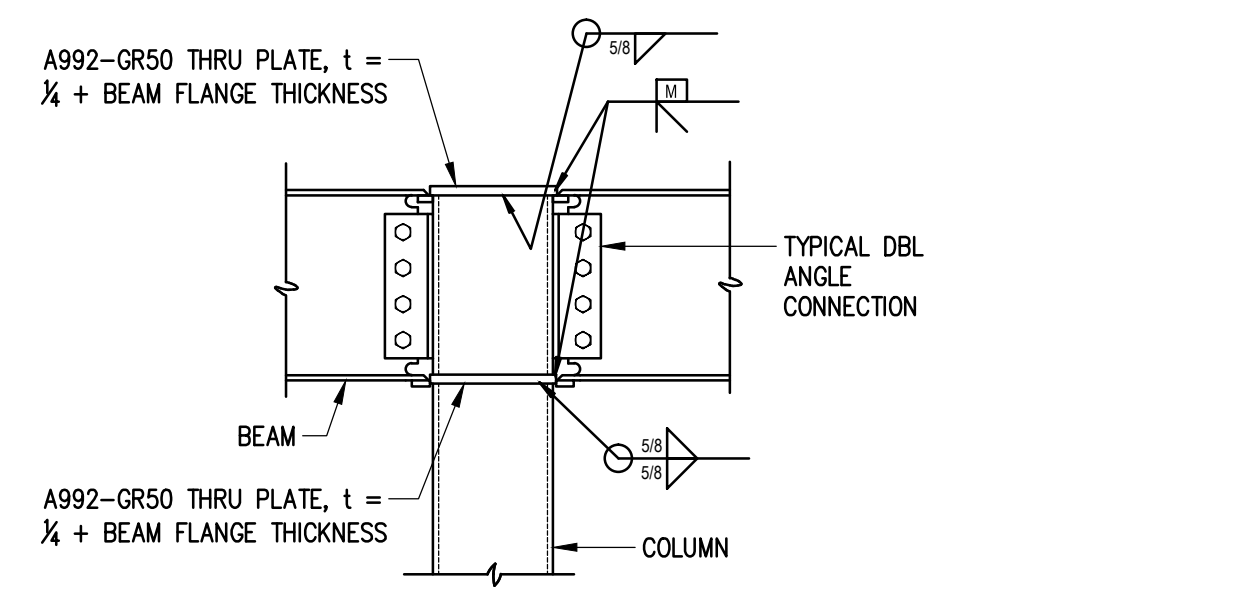
ROOF SECTION
 SCALE: 3/4" = 1'-0"
 DET006_17056 S4.8



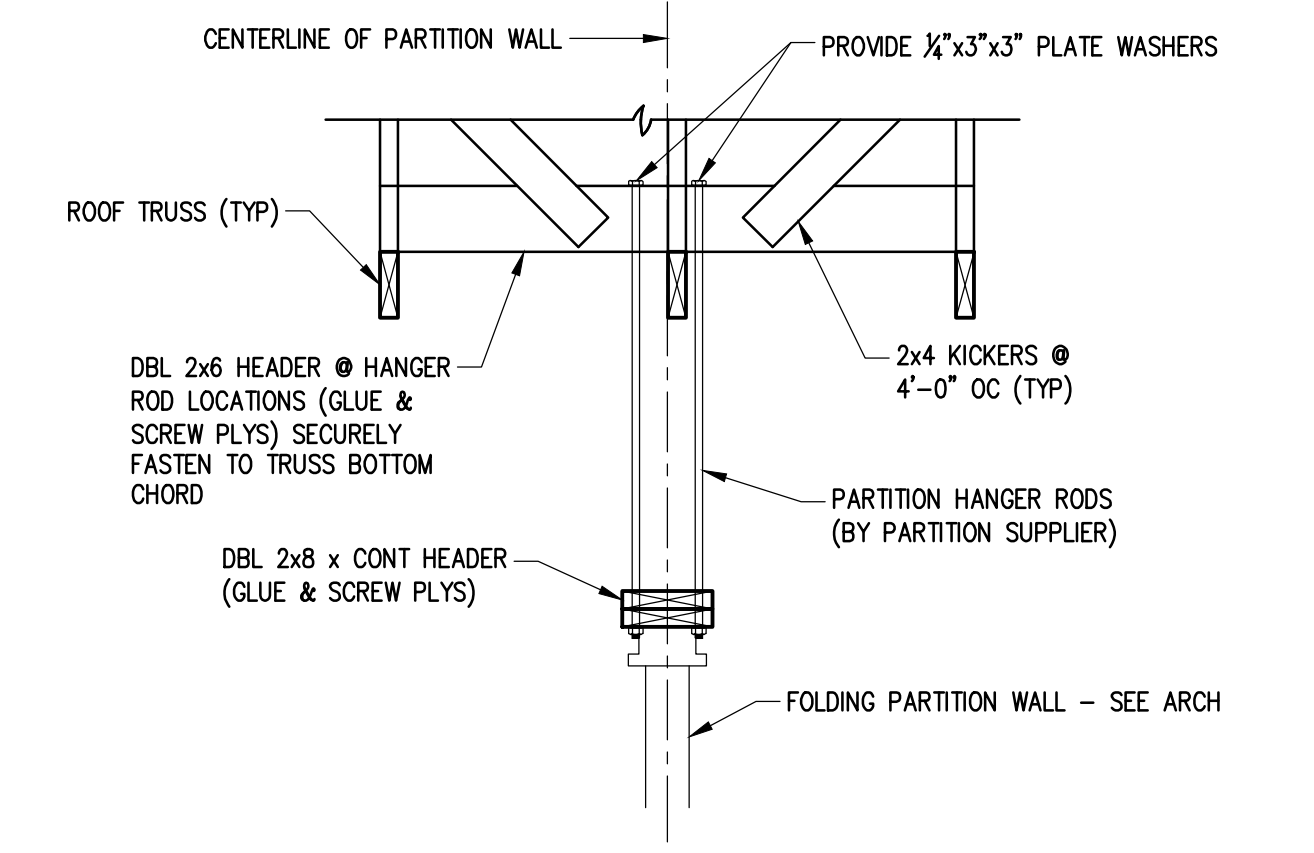
ROOF SECTION
 SCALE: 3/4" = 1'-0"
 DET005_17056 S4.8



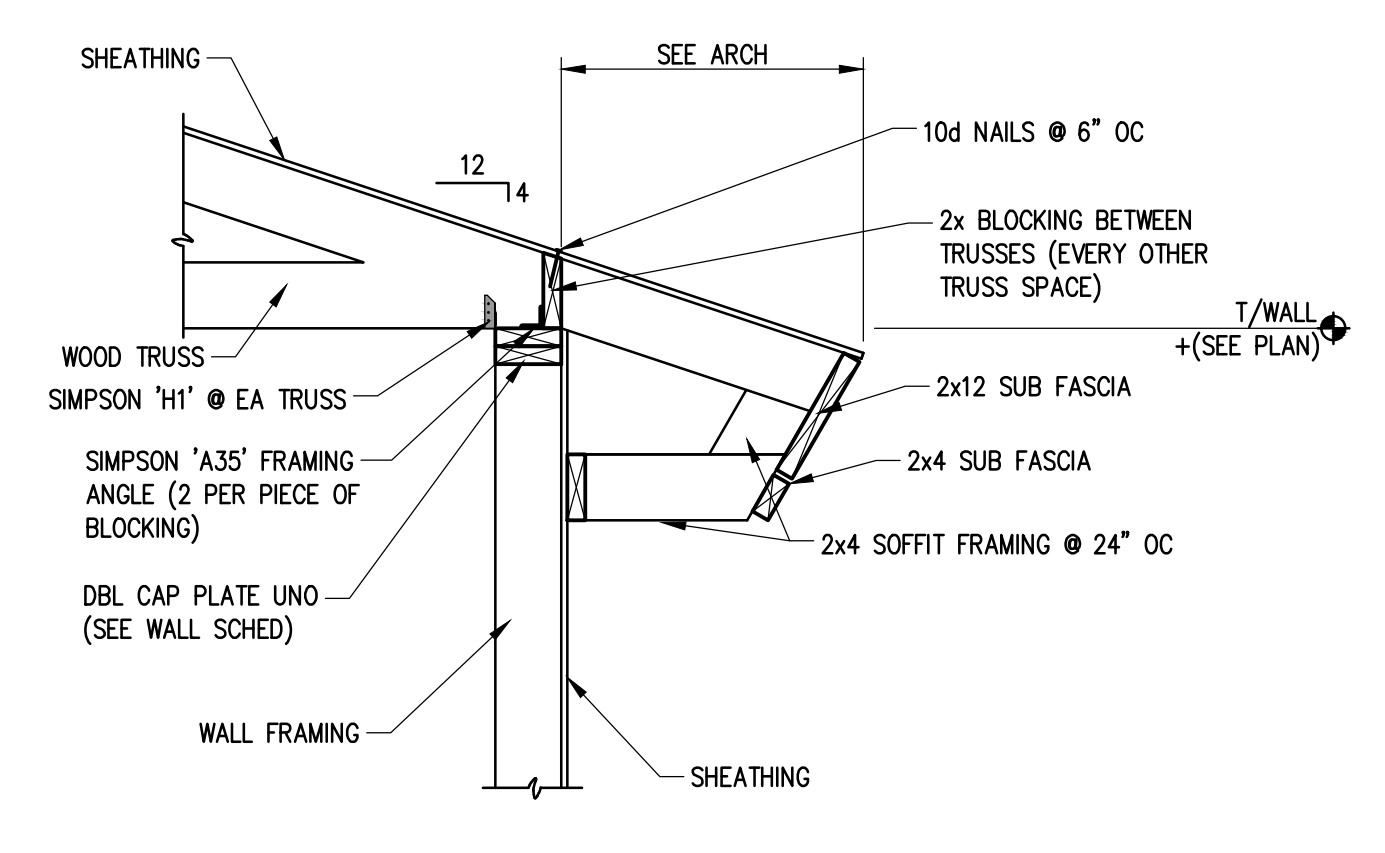
ROOF SECTION
 SCALE: 3/4" = 1'-0"
 DET002_17056 S4.8



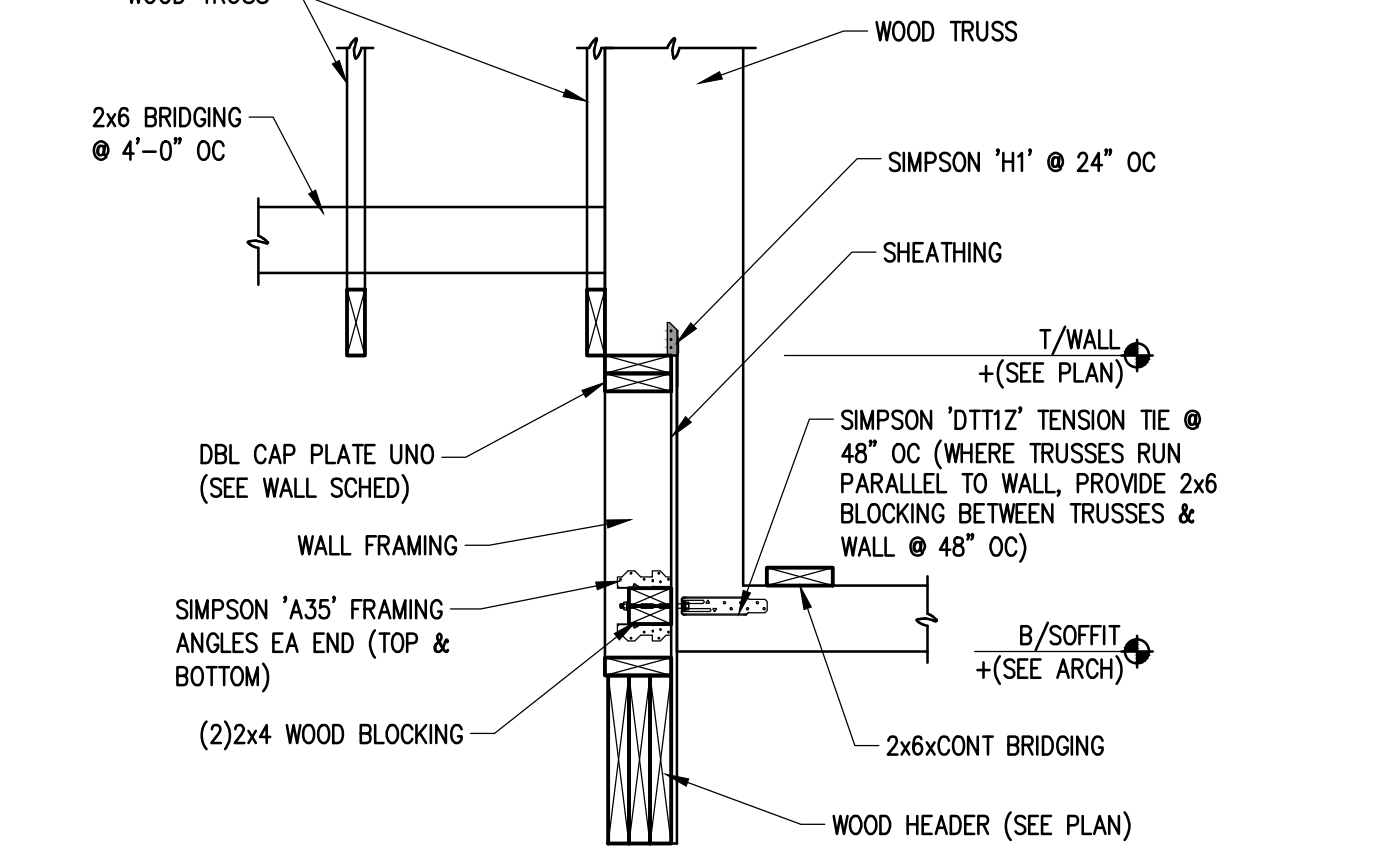
TYP HSS COL MOMENT CONN
 SCALE: NOT TO SCALE
 DET014_17056 S4.8



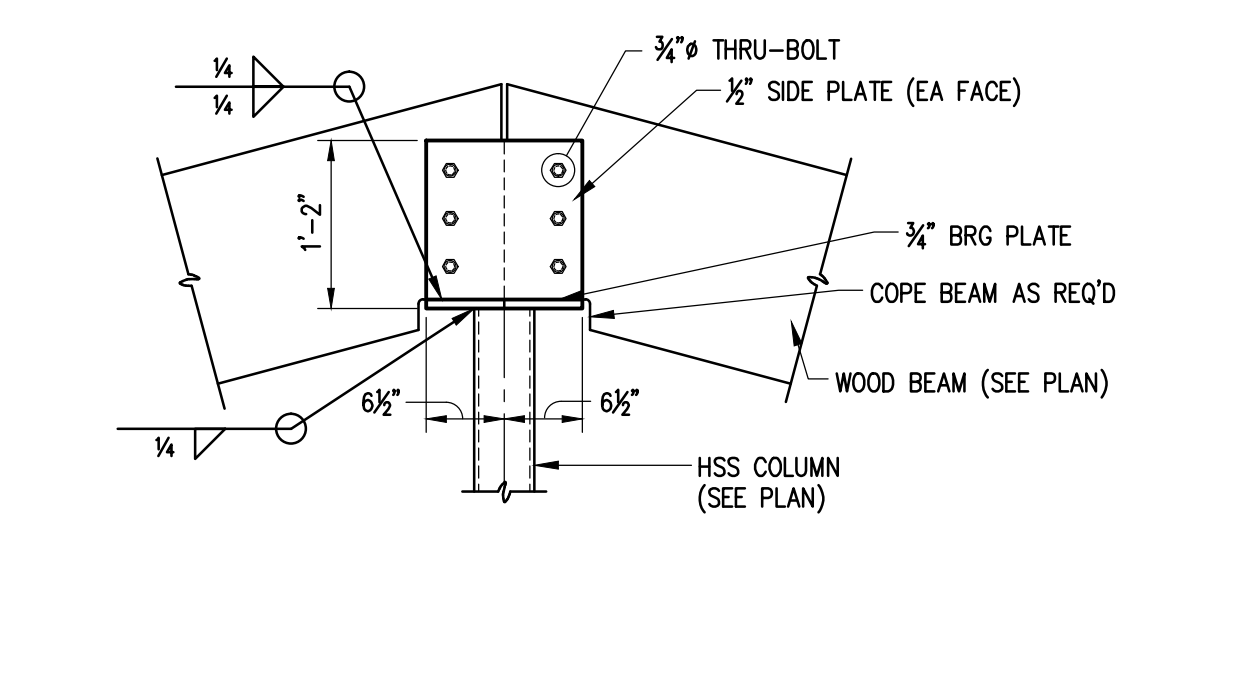
MOVABLE PARTITION WALL SUPPORT
 SCALE: NOT TO SCALE
 DET010_17056 S4.8



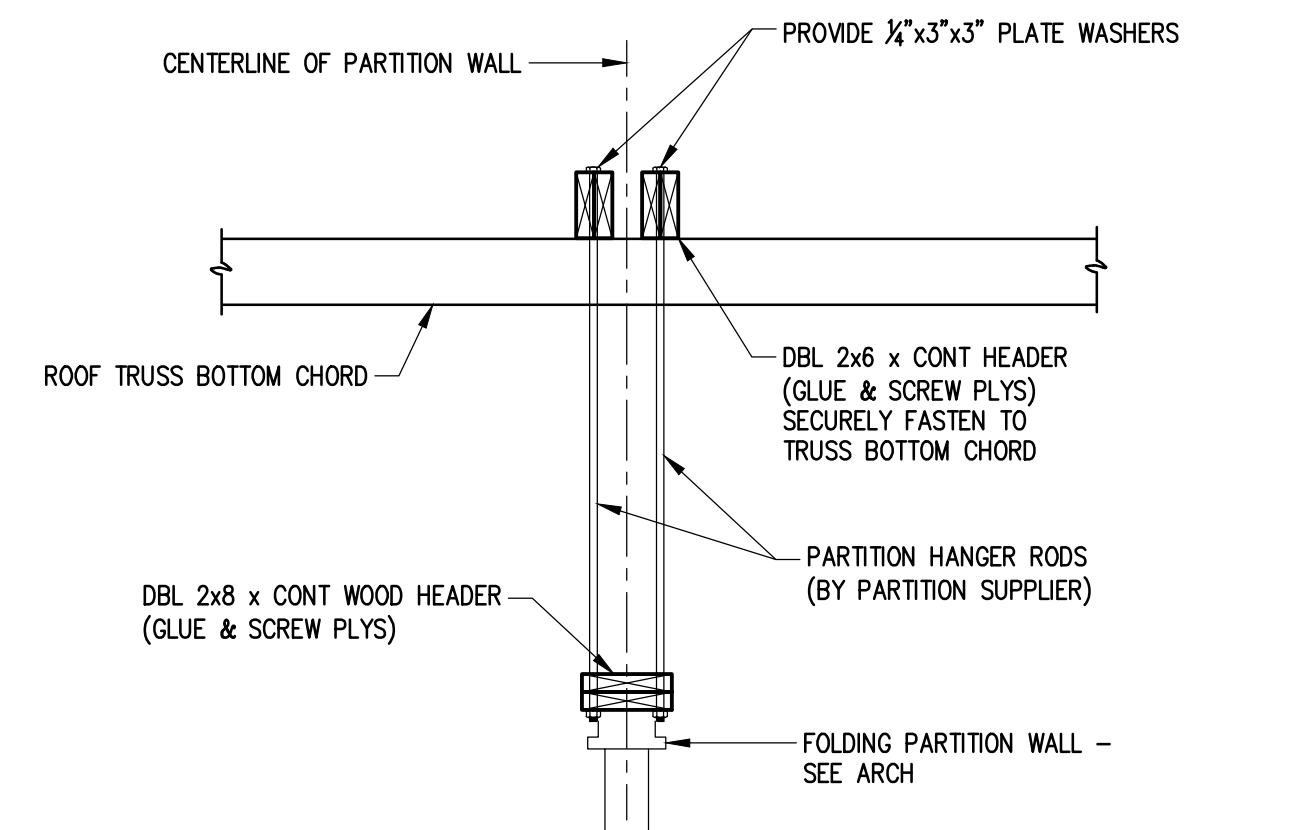
ROOF SECTION
 SCALE: 3/4" = 1'-0"
 DET006_17056 S4.8



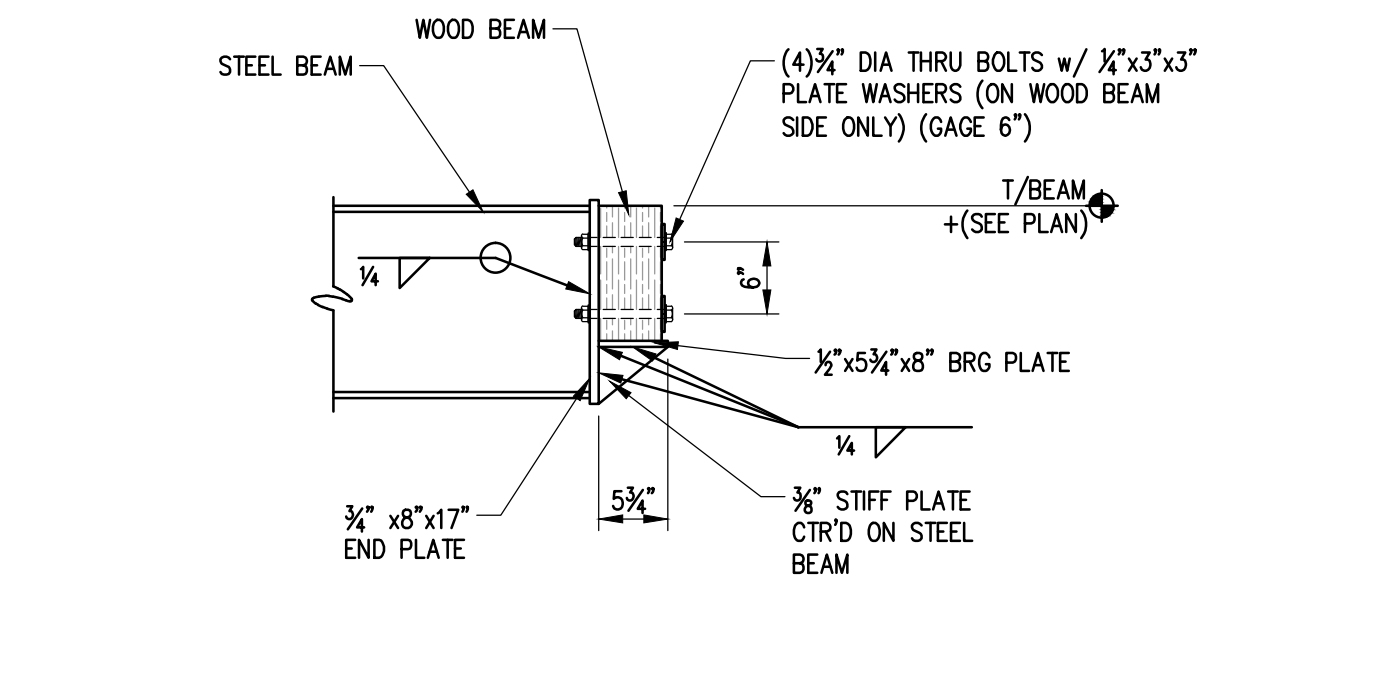
TYP ROOF SECTION
 SCALE: 3/4" = 1'-0"
 DET003_17056 S4.8



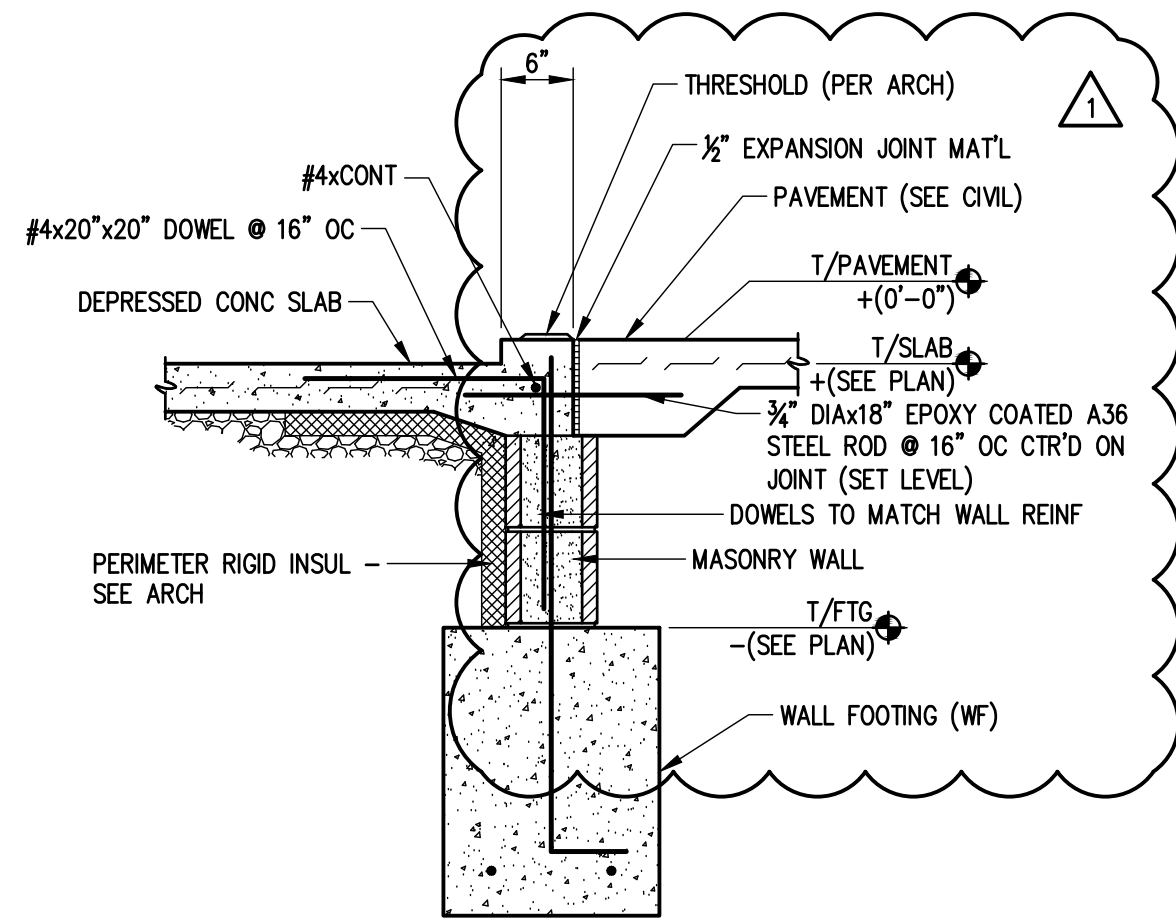
BEARING @ COLUMN
 SCALE: 3/4" = 1'-0"
 DET015_17056 S4.8



MOVABLE PARTITION WALL SUPPORT
 SCALE: NOT TO SCALE
 DET011_17056 S4.8



CONNECTION DETAIL
 SCALE: 3/4" = 1'-0"
 DET007_17056 S4.8

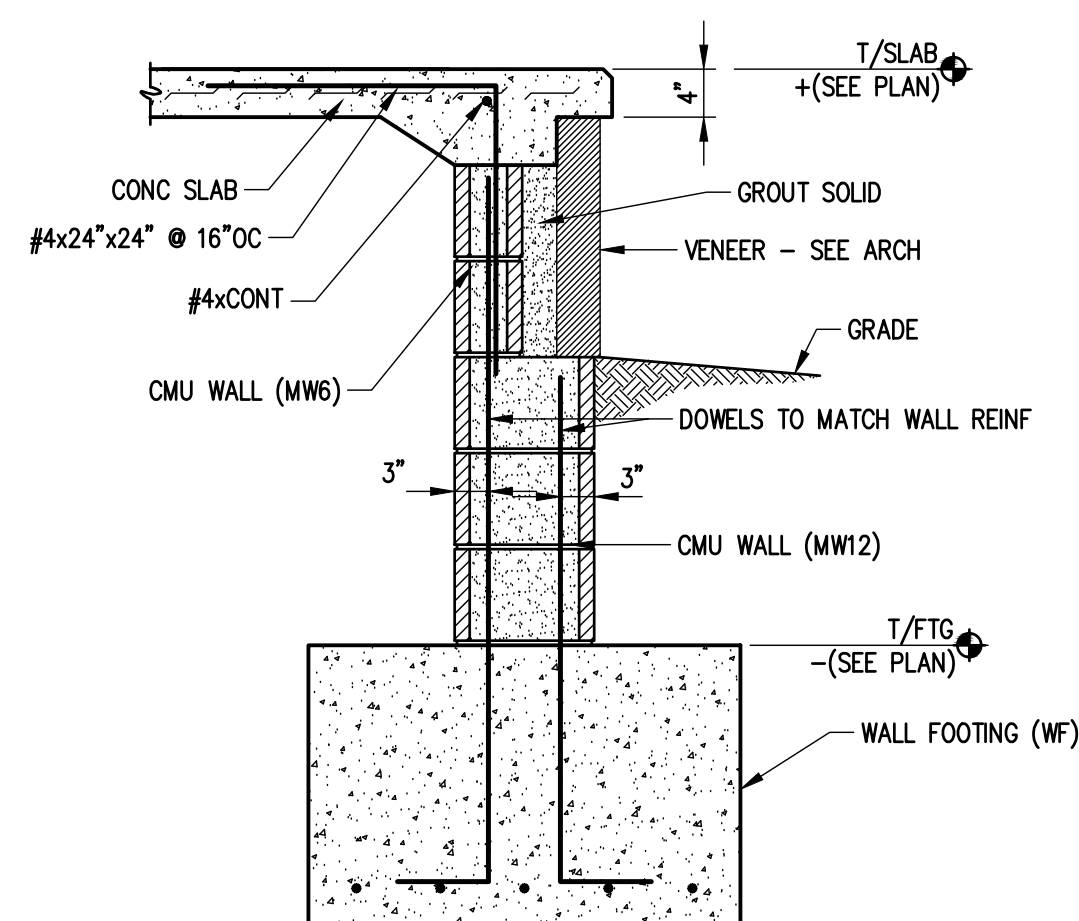


WALL FTG @ ENTRY

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

DET030_17056

11
S4.9

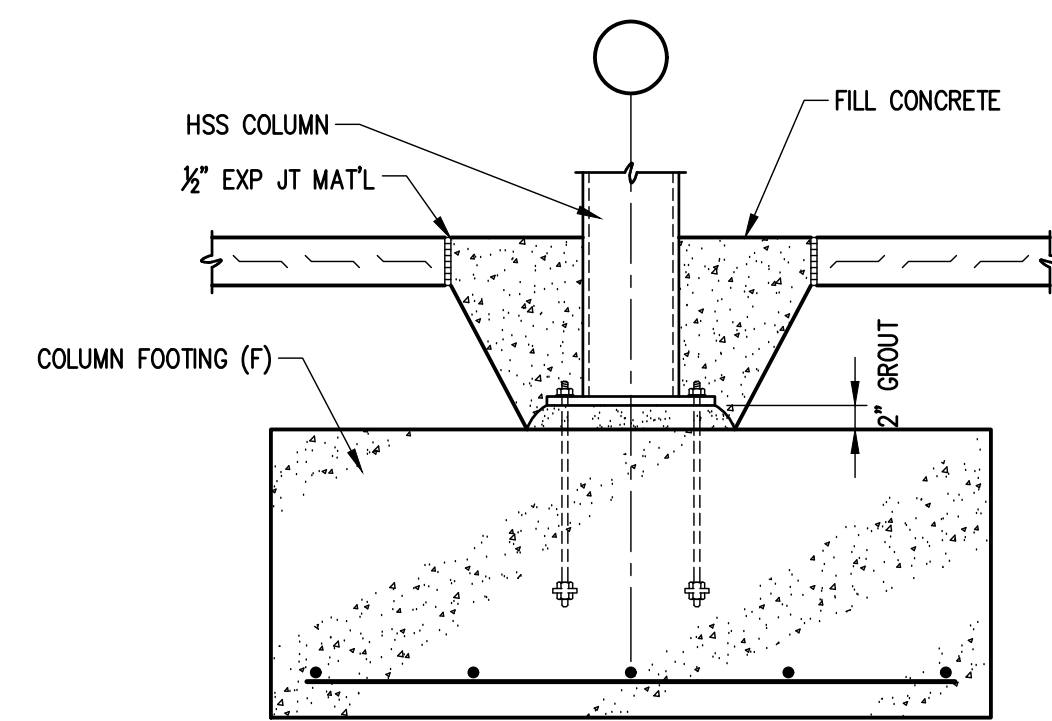


WALL FTG SECTION

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

DET027_17056

08
S4.9

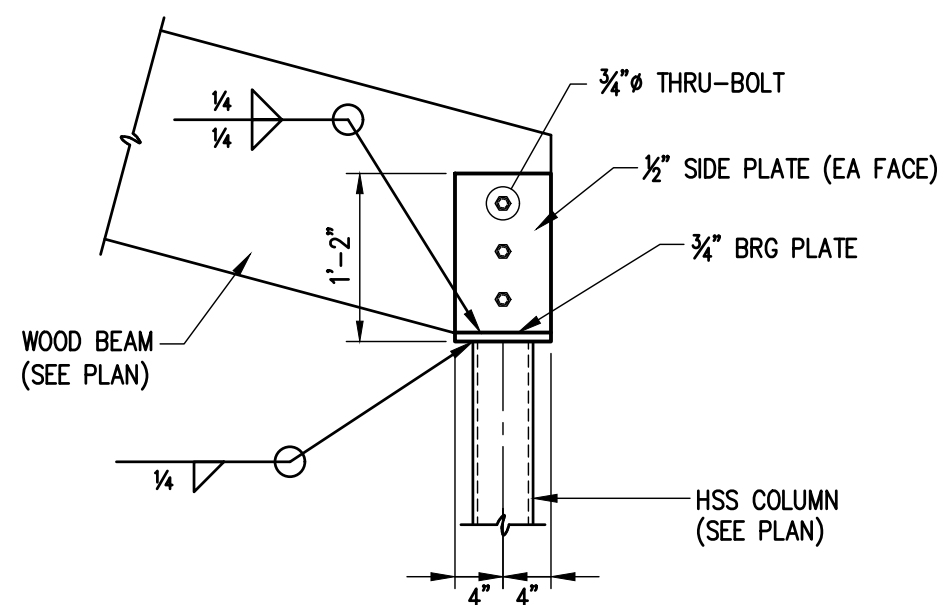


TYP SECTION @ COLUMN

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

DET024_17056

04
S4.9

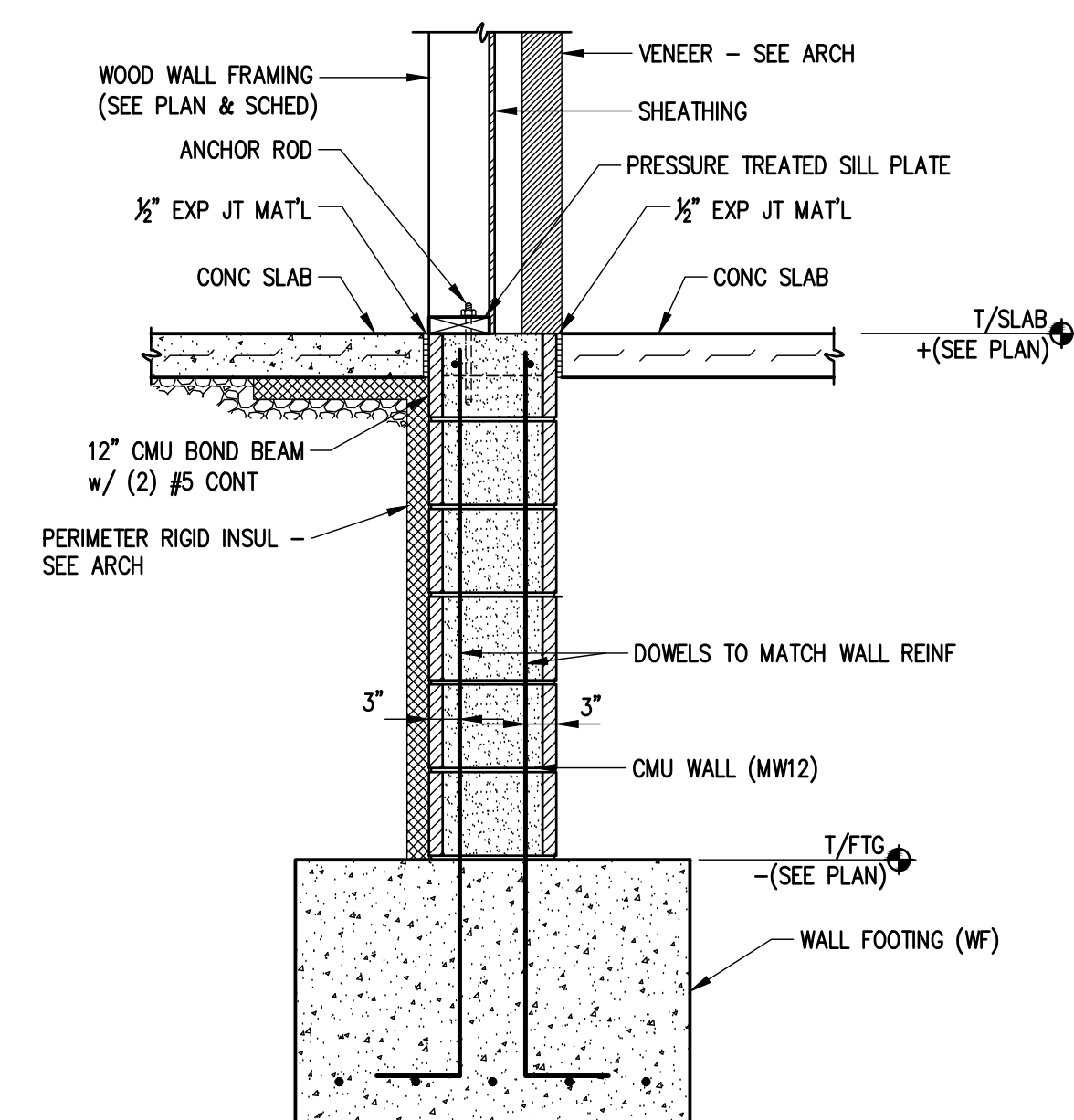


BEARING @ COLUMN

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

DET016_17056

01
S4.9

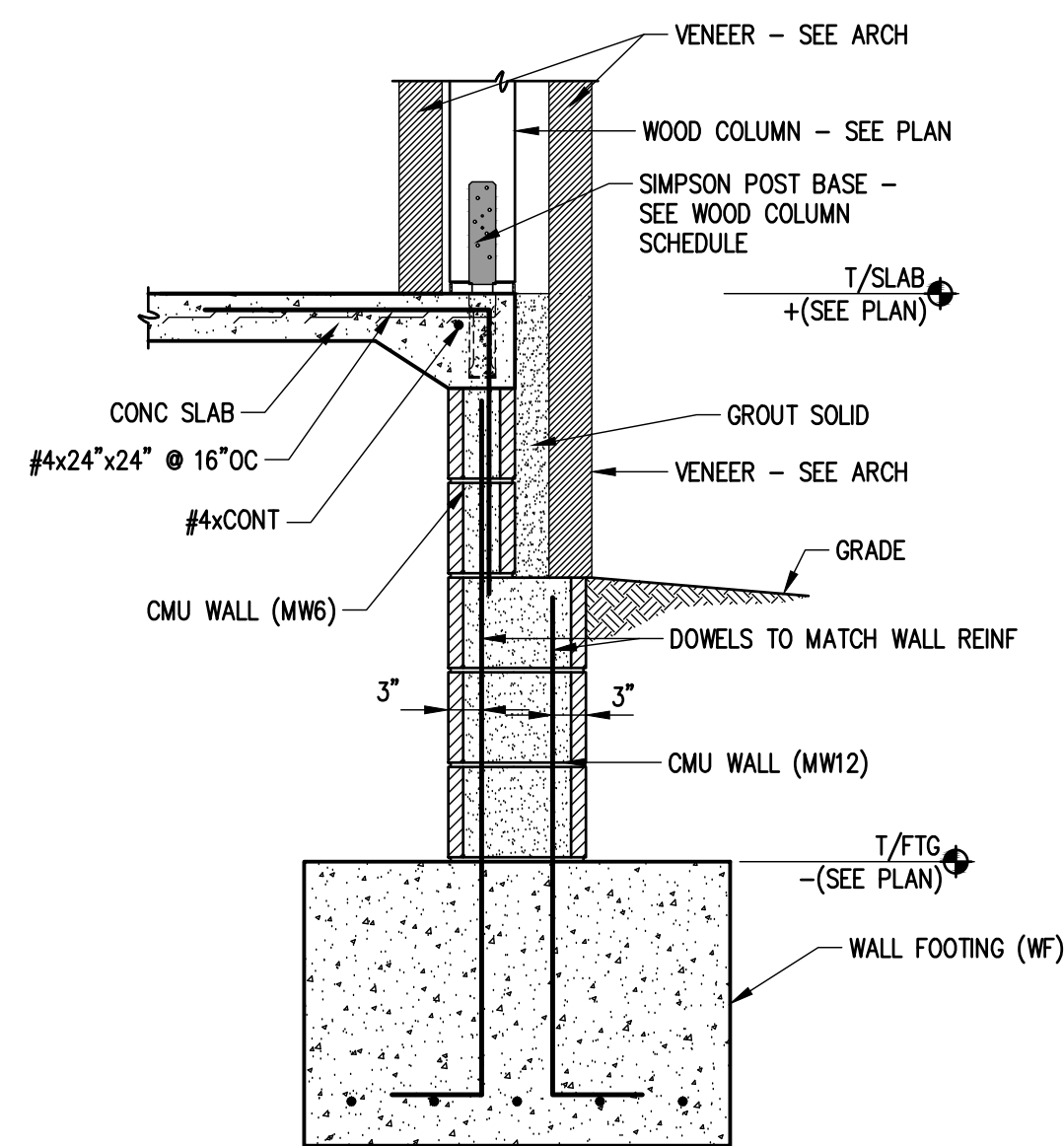


WALL FTG SECTION

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

DET031_17056

12
S4.9

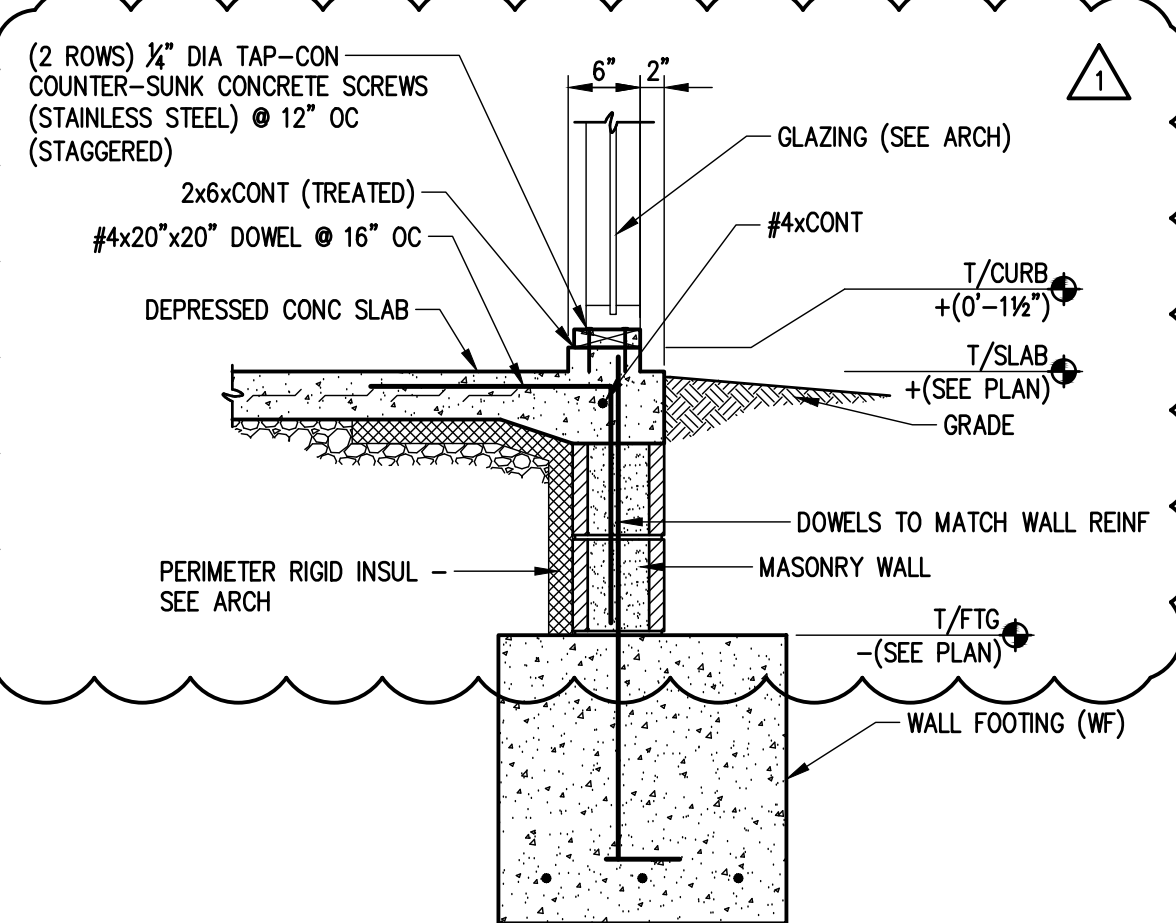


WALL FTG SECTION

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

DET028_17056

09
S4.9

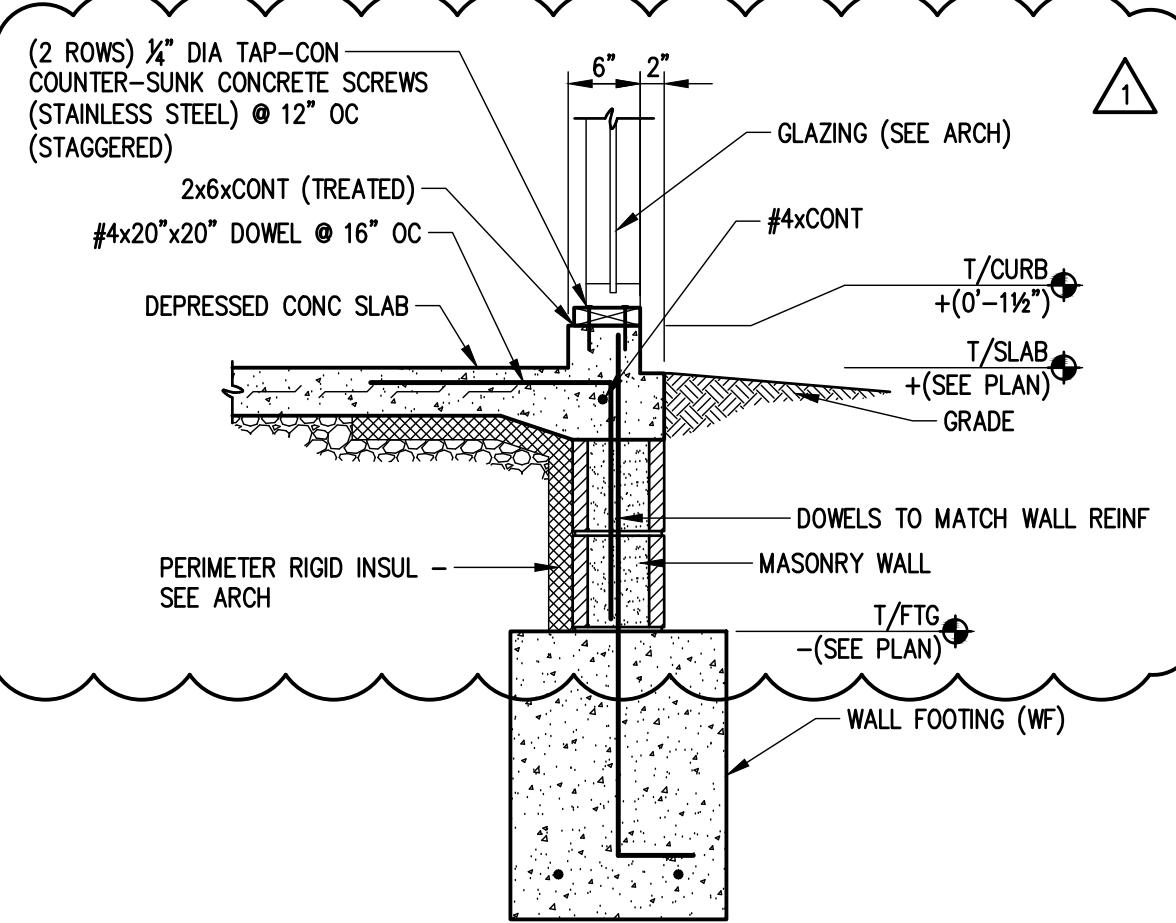


WALL FTG SECTION

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

DET026_17056

05
S4.9

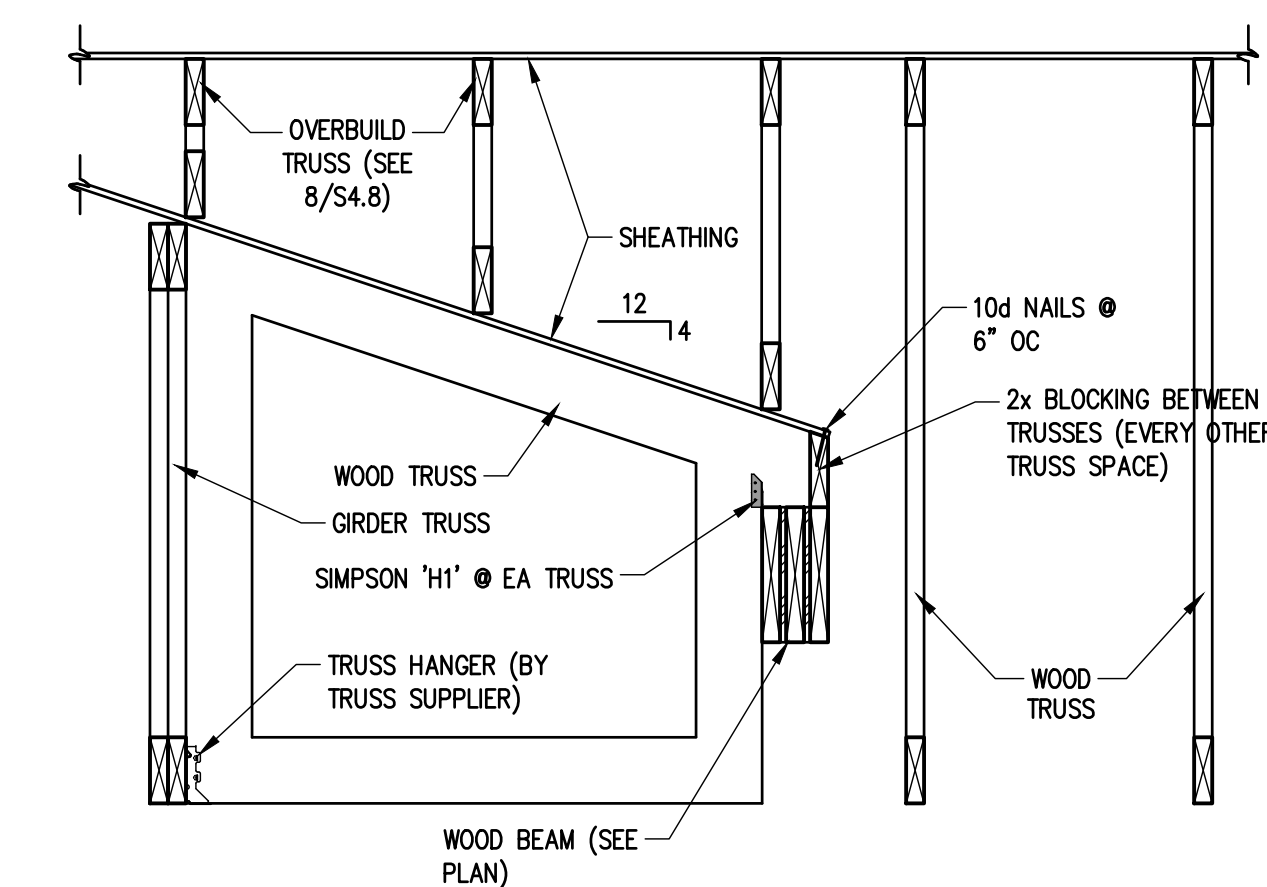


WALL FTG SECTION

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

DET025_17056

06
S4.9

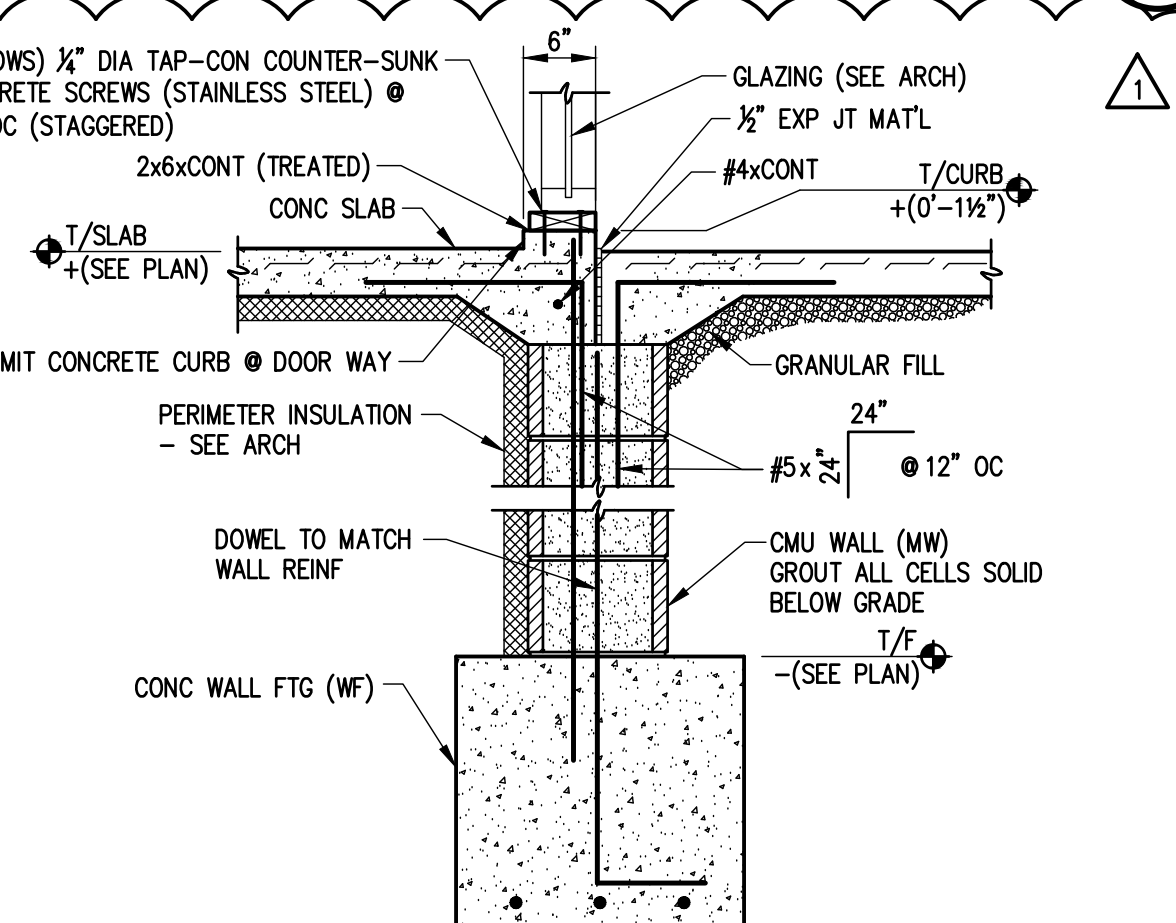


ROOF SECTION

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

DET017_17056

02
S4.9

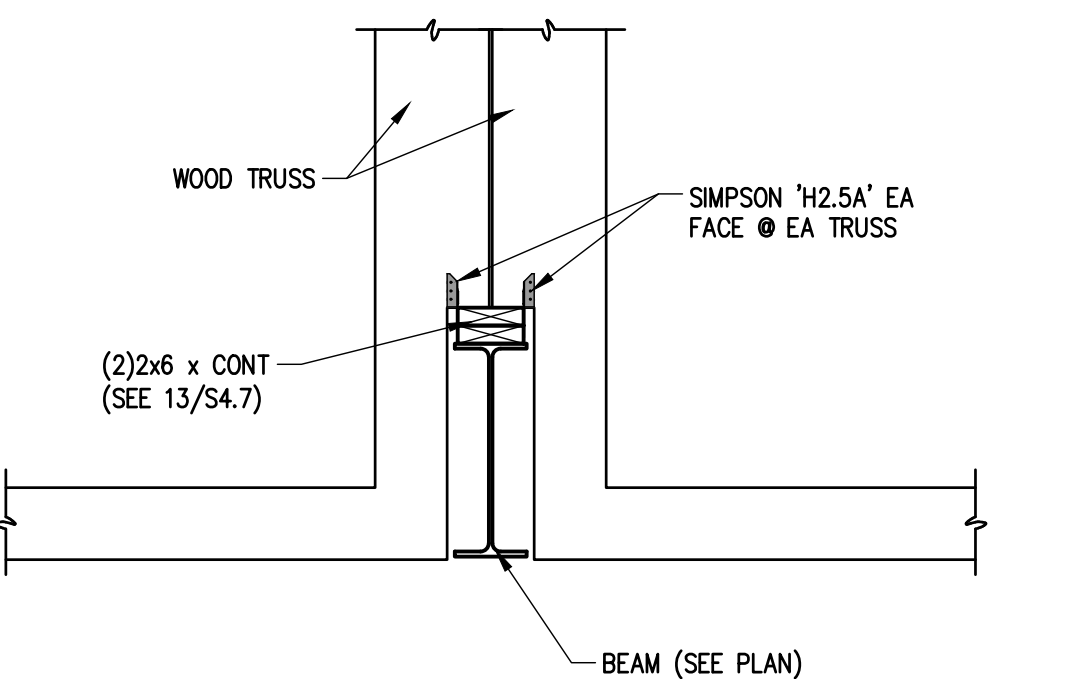


FOUNDATION SECTION

SCALE: NTS

DET032_17056

13
S4.9

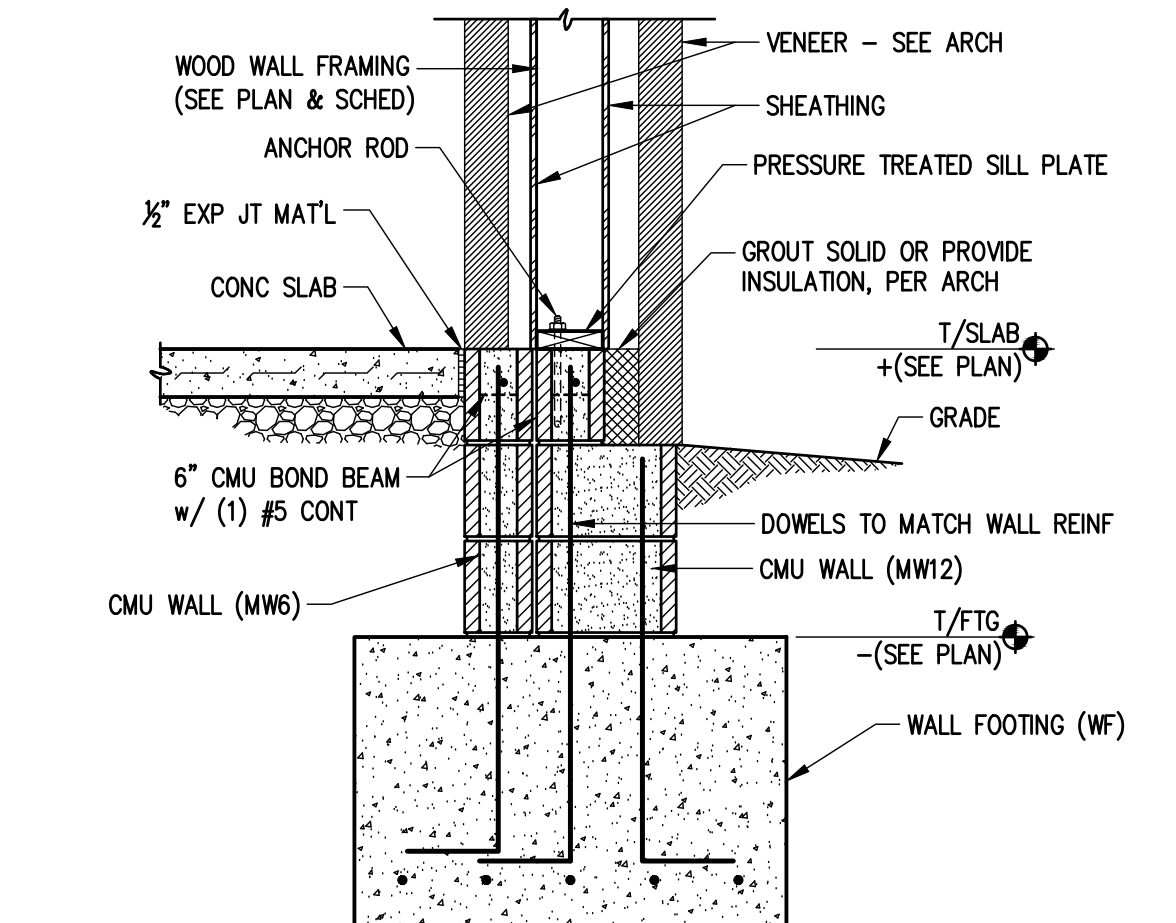


ROOF SECTION

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

DET029_17056

10
S4.9

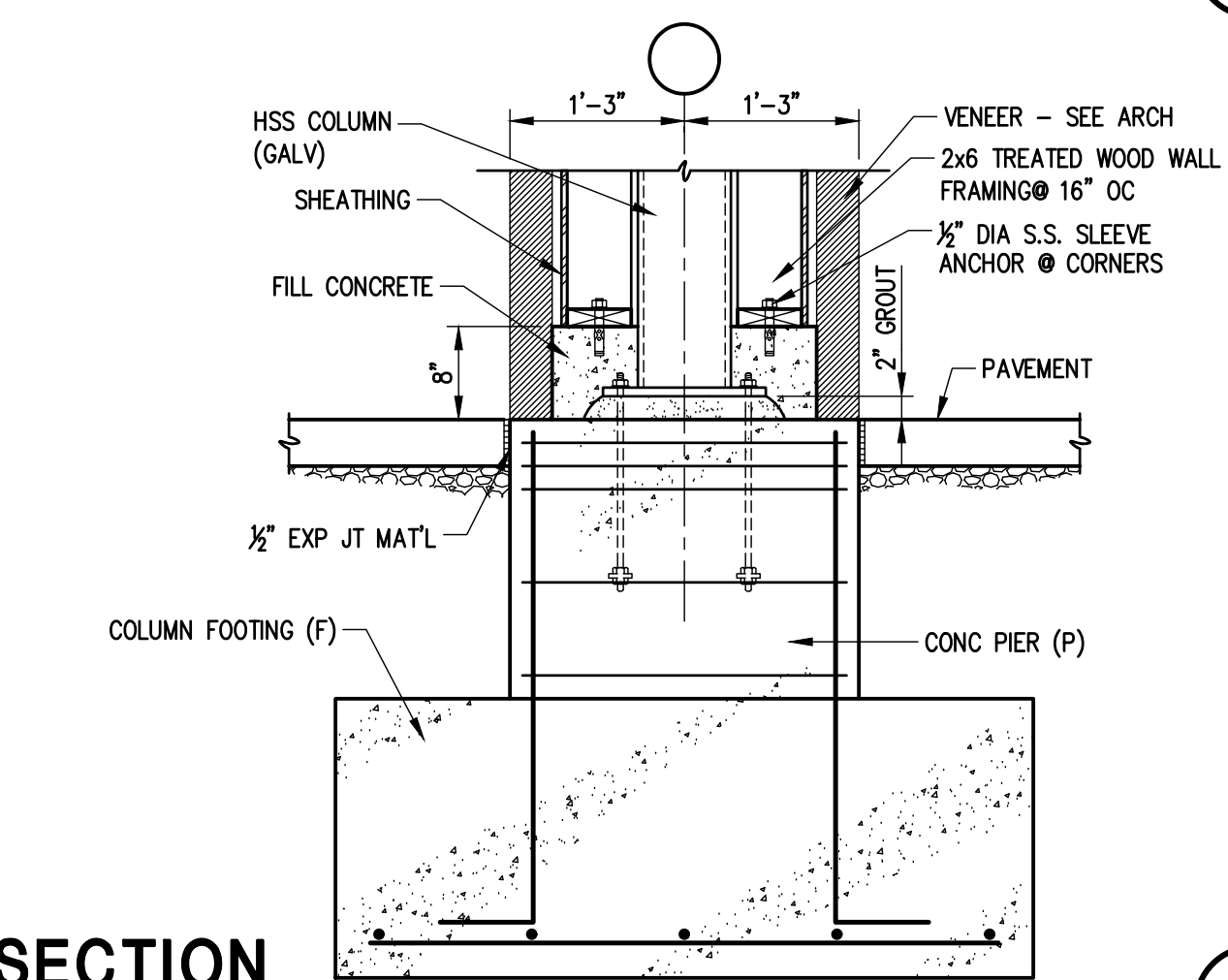


WALL FTG SECTION

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

DET022_17056

07
S4.9



SECTION

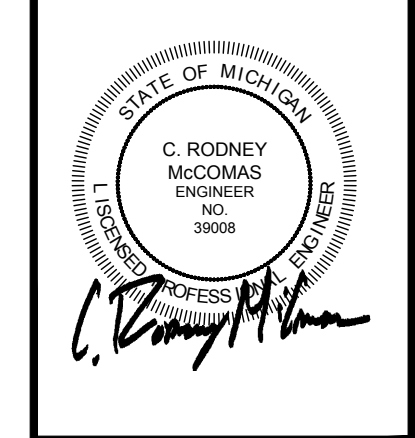
SCALE: 3/4" = 1'-0"

DET023_17056

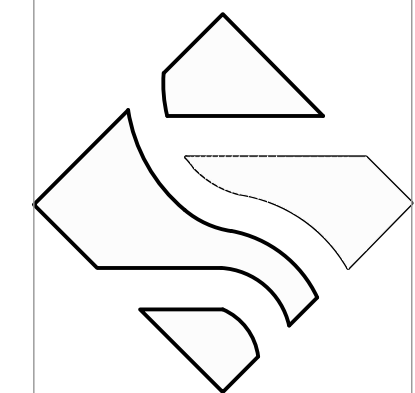
03
S4.9

ISSUE DATE:

08-21-2017
PERMIT CONSTRUCTION
STAMPING SET
3/2/2018
REVISION:
09-30-2017
T.S.I-001



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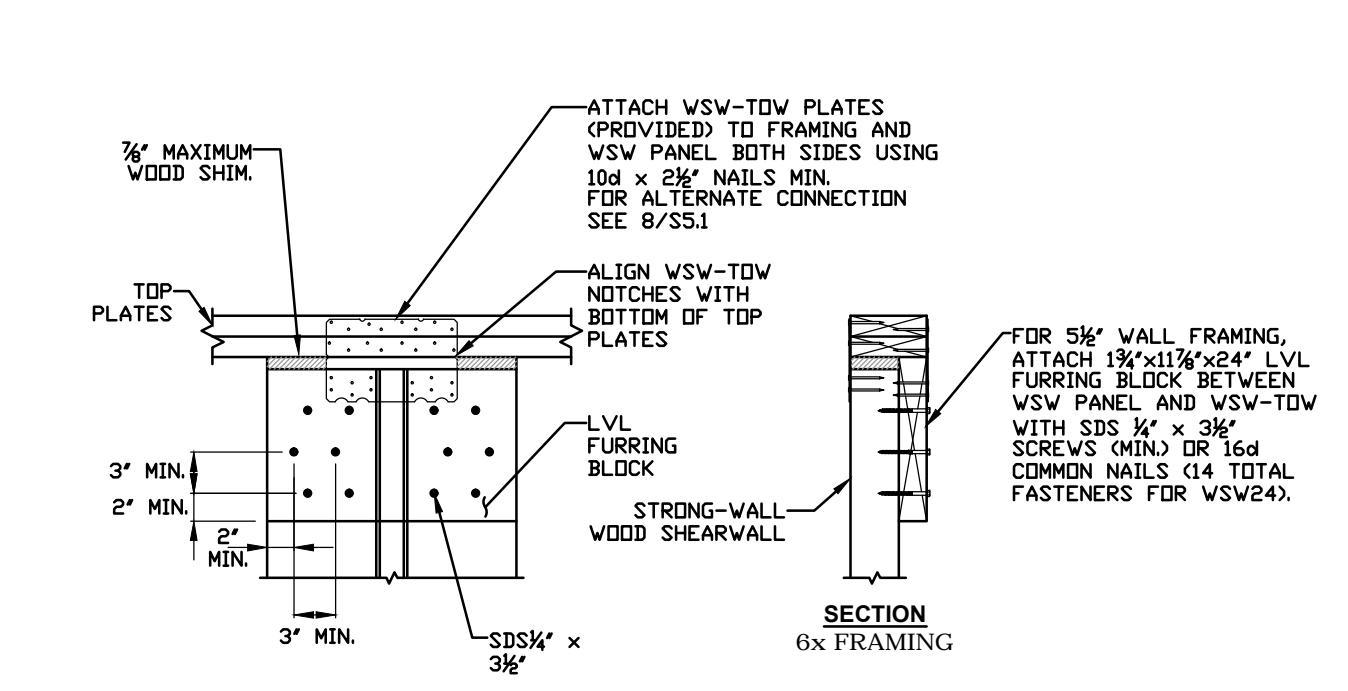
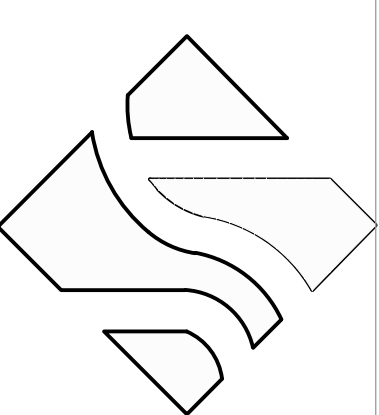


L.J. GRIFFIN FUNERAL HOME
SCHEMATIC DESIGN
NOVI, MI

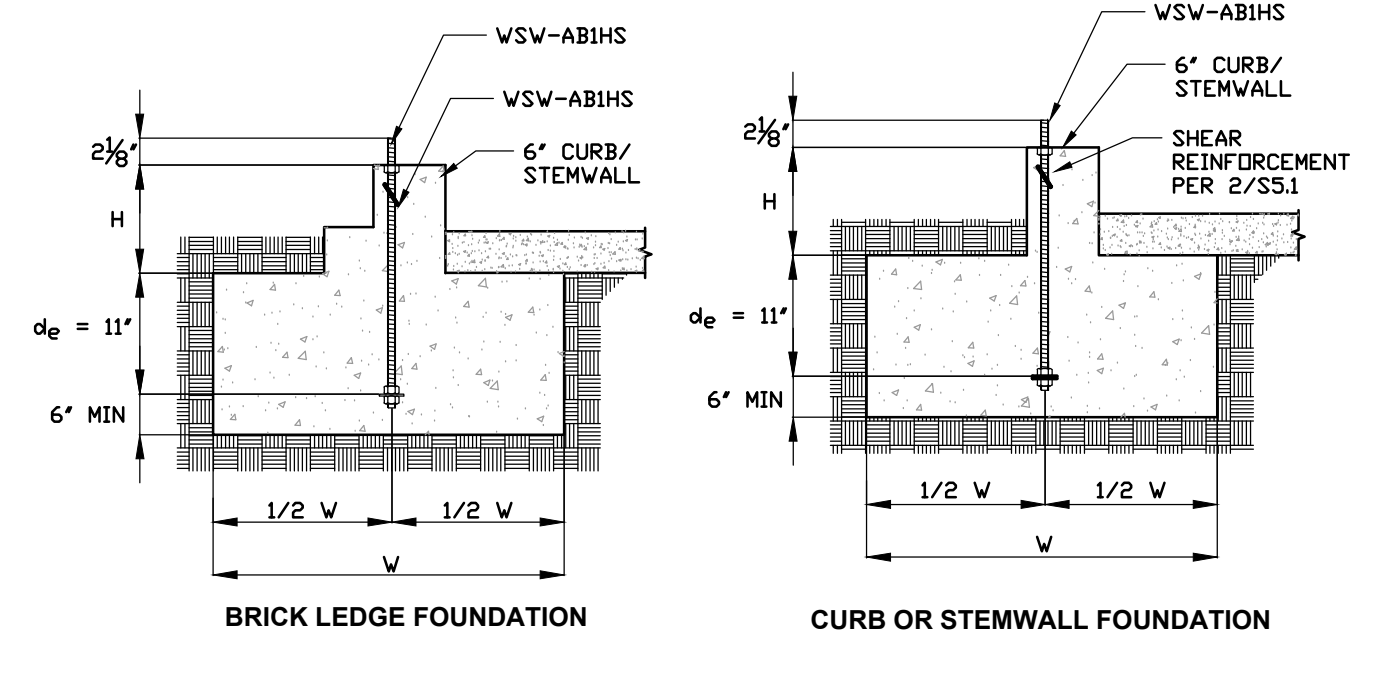
SHEET NO.
S4.9
JOB NUMBER: 16238

1717 East 116th Street, Suite 200
Carmel, Indiana 46032
317-580-0402
www.mccomaseng.com
Job No MEI 17056
C. Rodney McComas, P.E.

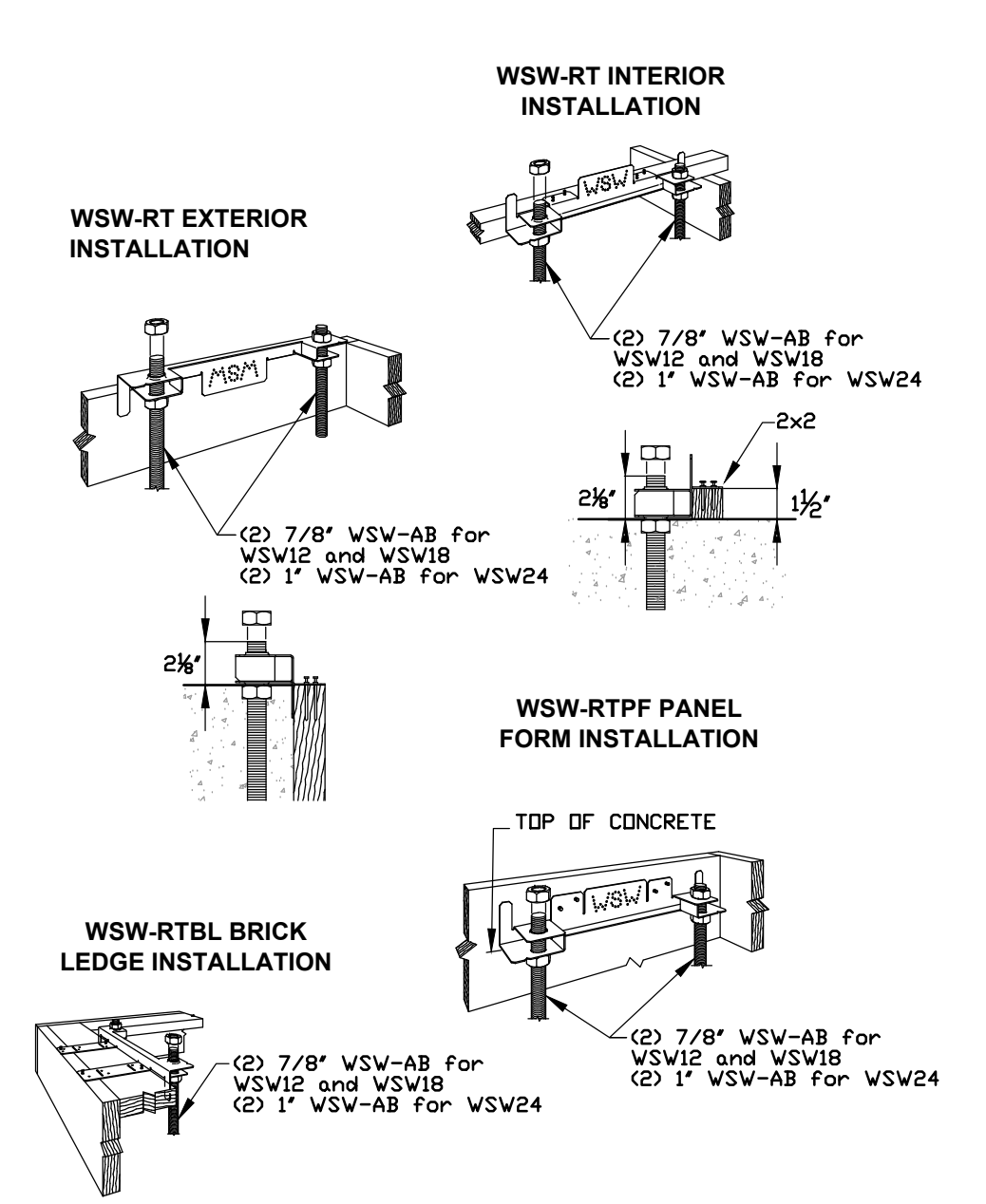
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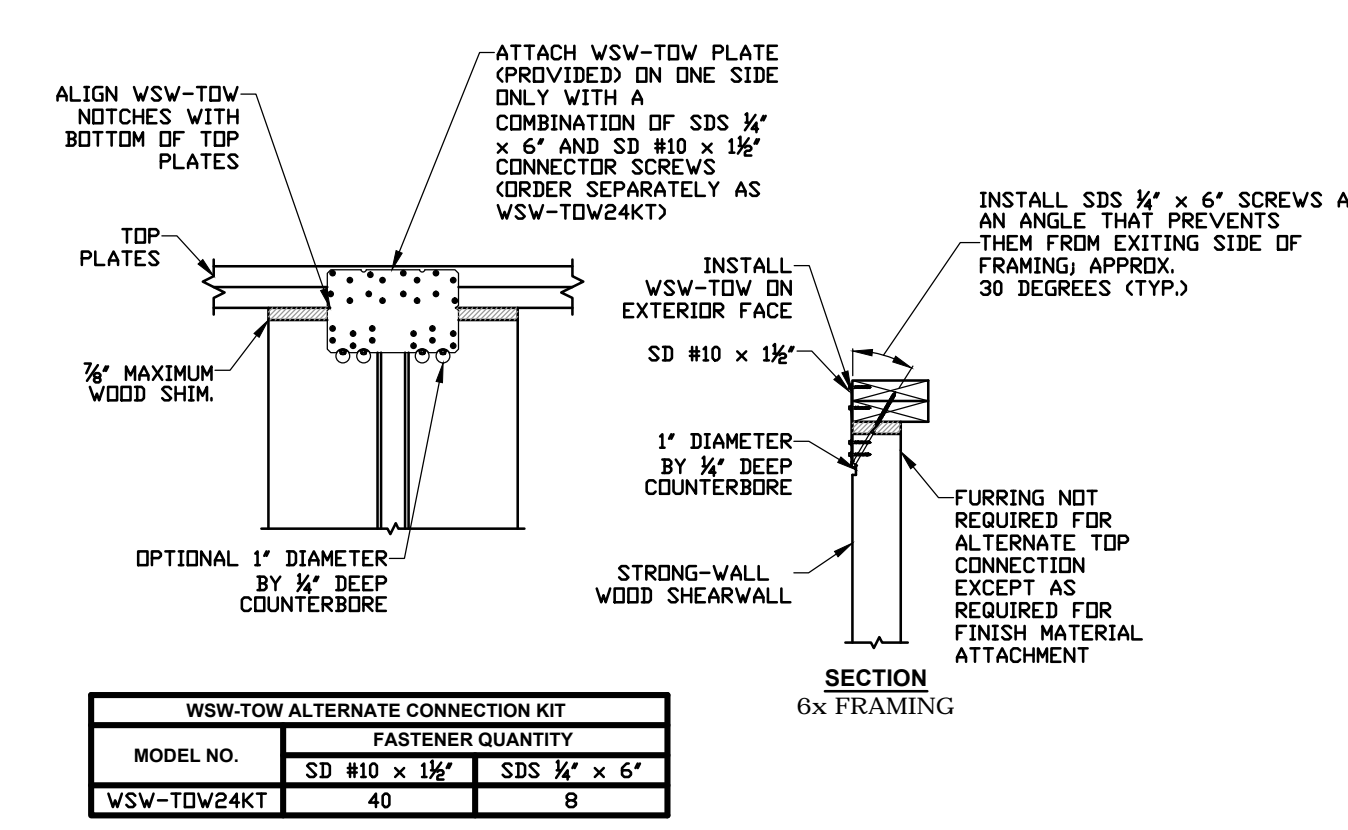
WSW TOP CONNECTION 07
SCALE: 3/4" = 1'-0" SIMPSON_007 S5.1



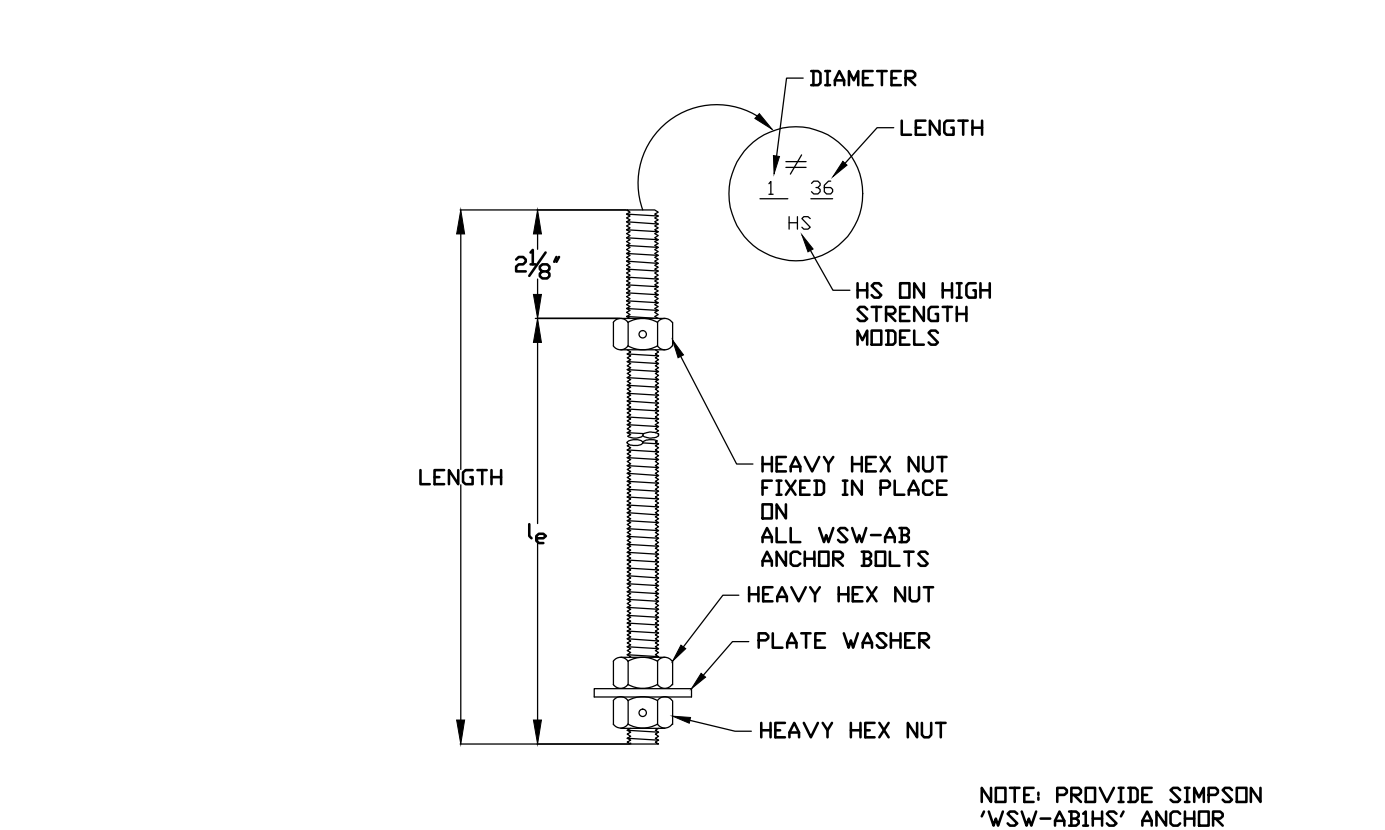
WSW ANCHORAGE SECTIONS 03
SCALE: 3/4" = 1'-0" SIMPSON_003 S5.1



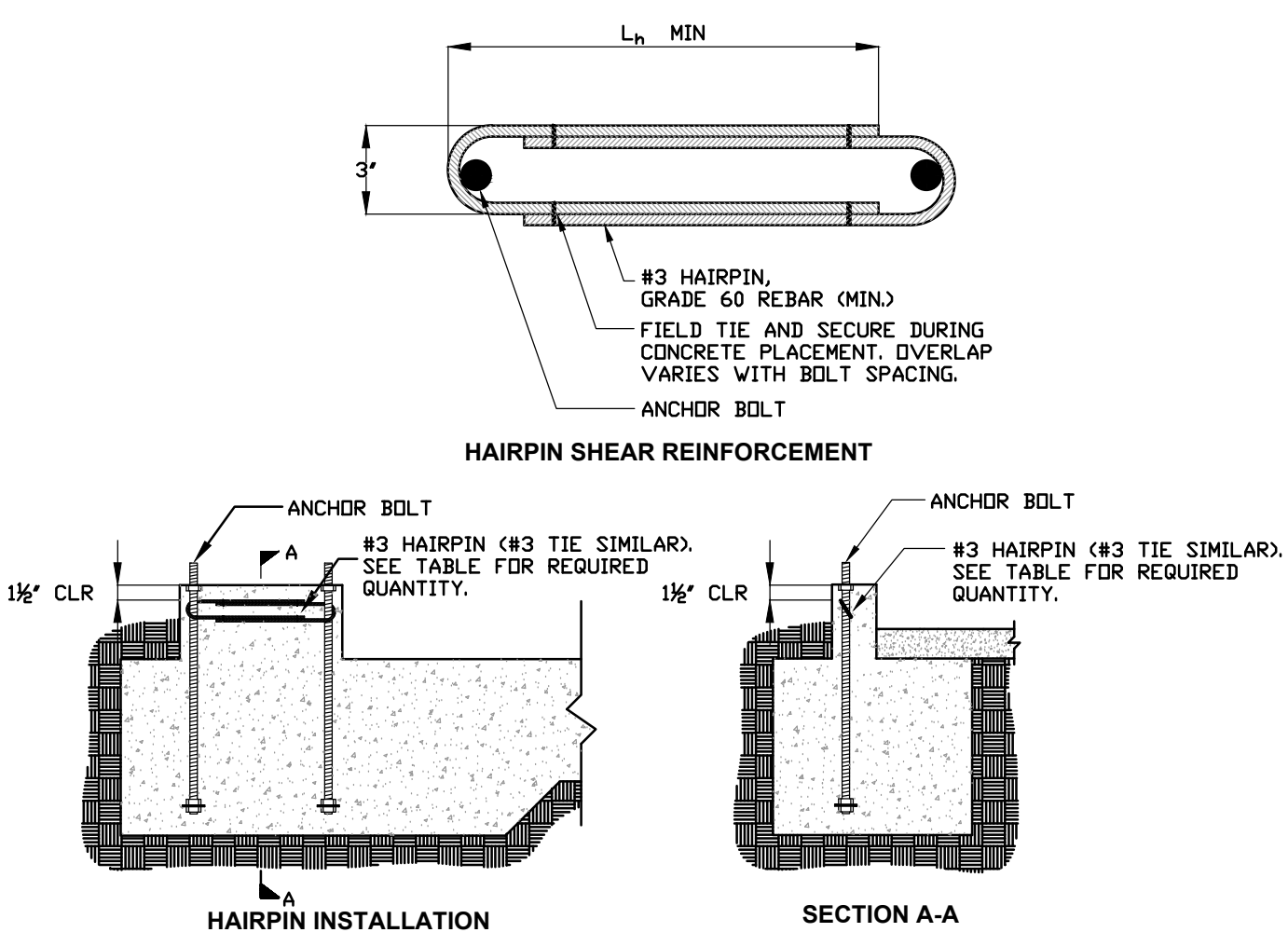
WSW ANCHOR BOLT TEMPLATES 01
SCALE: 3/4" = 1'-0" SIMPSON_001 S5.1



WSW ALTERNATE TOP CONNECTION 08
SCALE: 3/4" = 1'-0" SIMPSON_008 S5.1



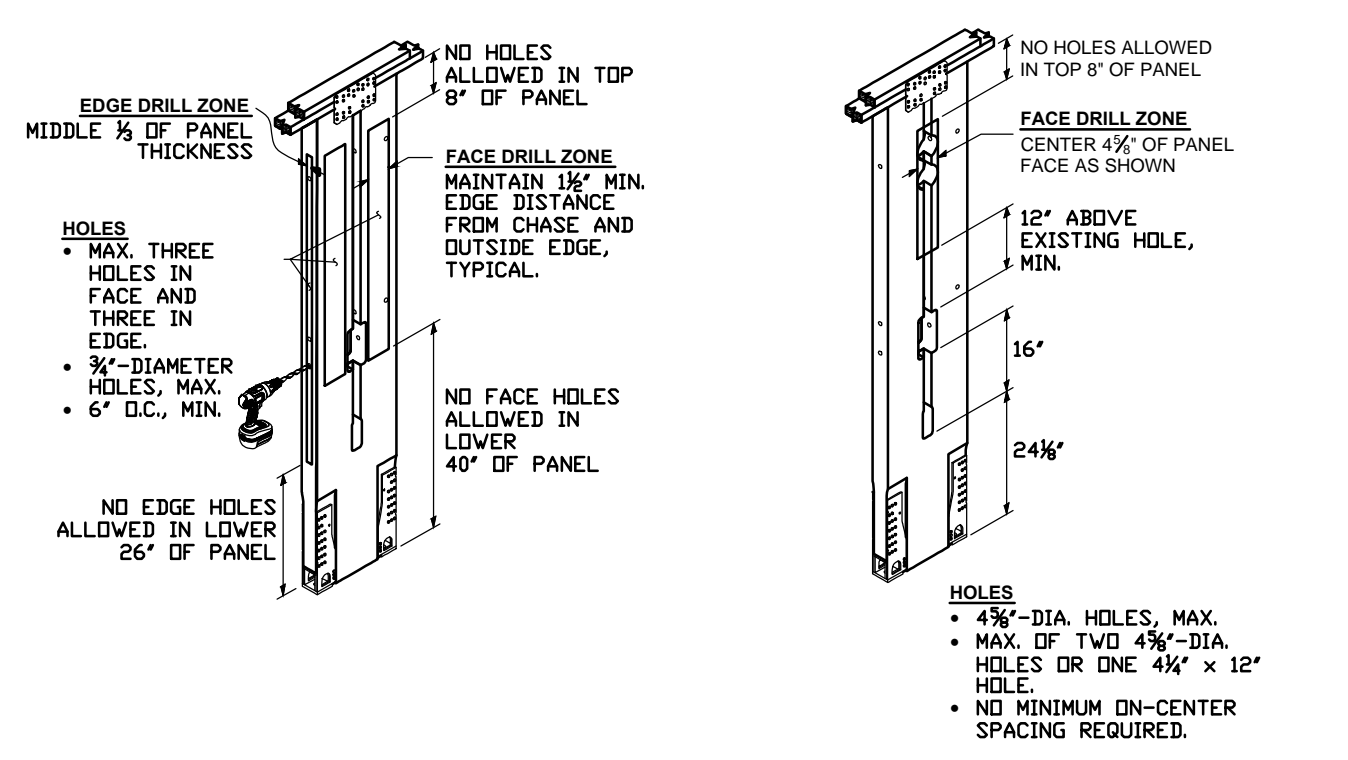
WSW ANCHOR BOLT 04
SCALE: 3/4" = 1'-0" SIMPSON_004 S5.1



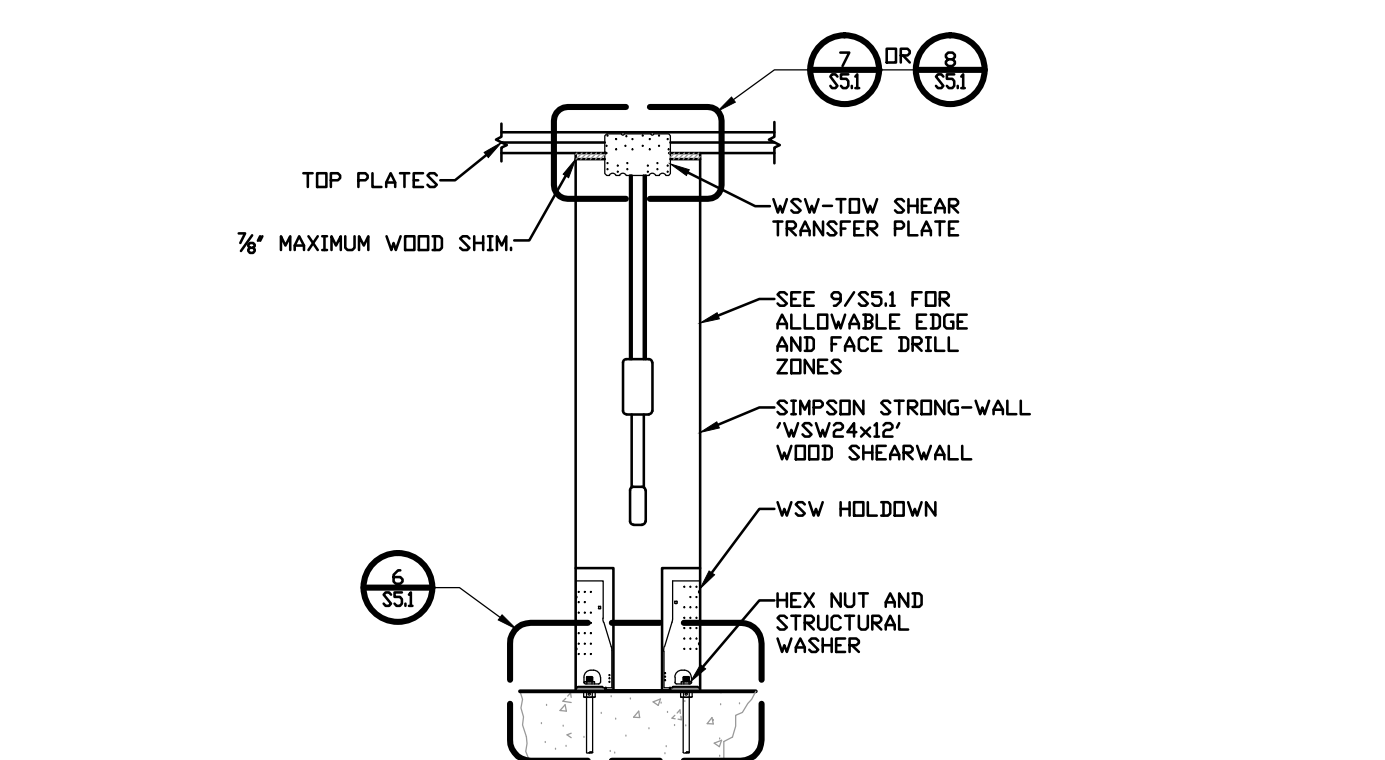
MODEL	L ₁ DR L ₂ (in)	STRONG-WALL® WOOD SHEARWALL SHEAR ANCHORAGE			
		SHEAR REINFORCEMENT	MINIMUM CURB/STEMWALL WIDTH (in)	WIND 4 ASD ALLOWABLE SHEAR LOAD, V (lb)	
				UNCRACKED	CRACKED
WSV18	15	(1) #3 HAIRPIN	6	HAIRPIN REINFORCEMENT ACHIEVES MAXIMUM ALLOWABLE SHEAR LOAD OF THE WSW	
WSV24	19	(1) #3 HAIRPIN	6	HAIRPIN REINFORCEMENT ACHIEVES MAXIMUM ALLOWABLE SHEAR LOAD OF THE WSW	

- NOTES:
- SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-11 AND ACI 318-14 AND ASSUME MINIMUM 2,500 PSI CONCRETE.
 - SHEAR REINFORCEMENT IS NOT REQUIRED FOR INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE); DR BRACED WALL PANEL APPLICATIONS.
 - SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F, DETACHED 1 AND 2 FAMILY DWELLINGS IN SD C MAY USE WIND ANCHORAGE SOLUTIONS.
 - WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SD C.
 - WHERE NOTED, MINIMUM CURB/STEMWALL WIDTH IS 6 INCHES WHEN STANDARD STRENGTH ANCHOR BOLT IS USED.
 - USE (1) #3 TIE FOR WSW12 WHEN PANEL DESIGN SHEAR FORCE EXCEEDS TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.
 - #4 GRADE 40 SHEAR REINFORCEMENT MAY BE SUBSTITUTED FOR WSW SHEAR ANCHORAGE SOLUTIONS.

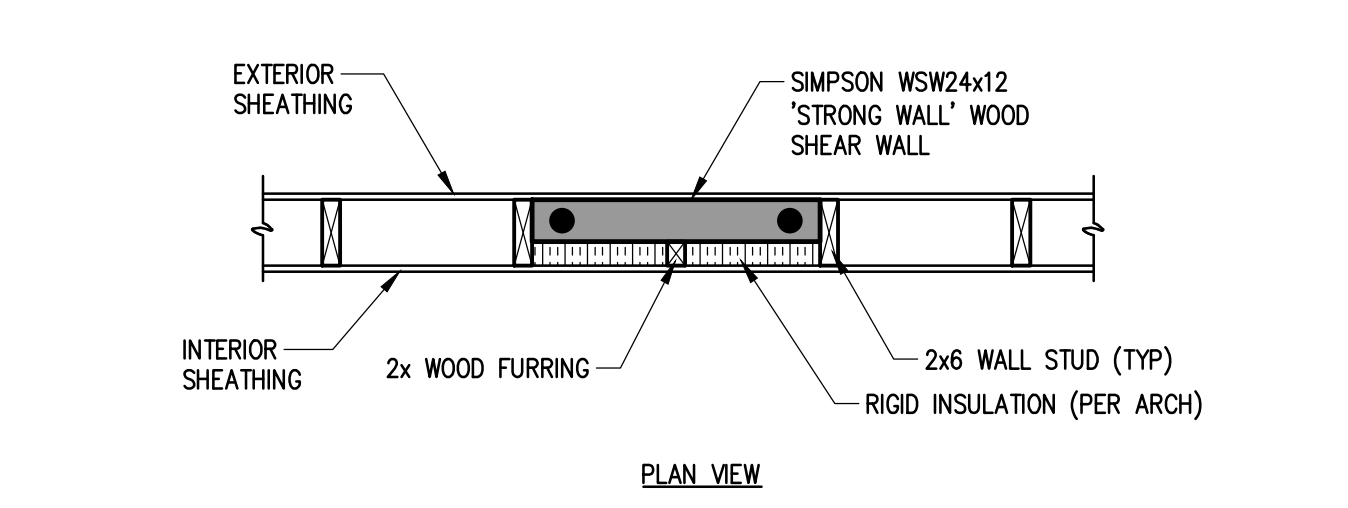
WSW SHEAR ANCHORAGE DETAILS 02
SCALE: 3/4" = 1'-0" SIMPSON_002 S5.1



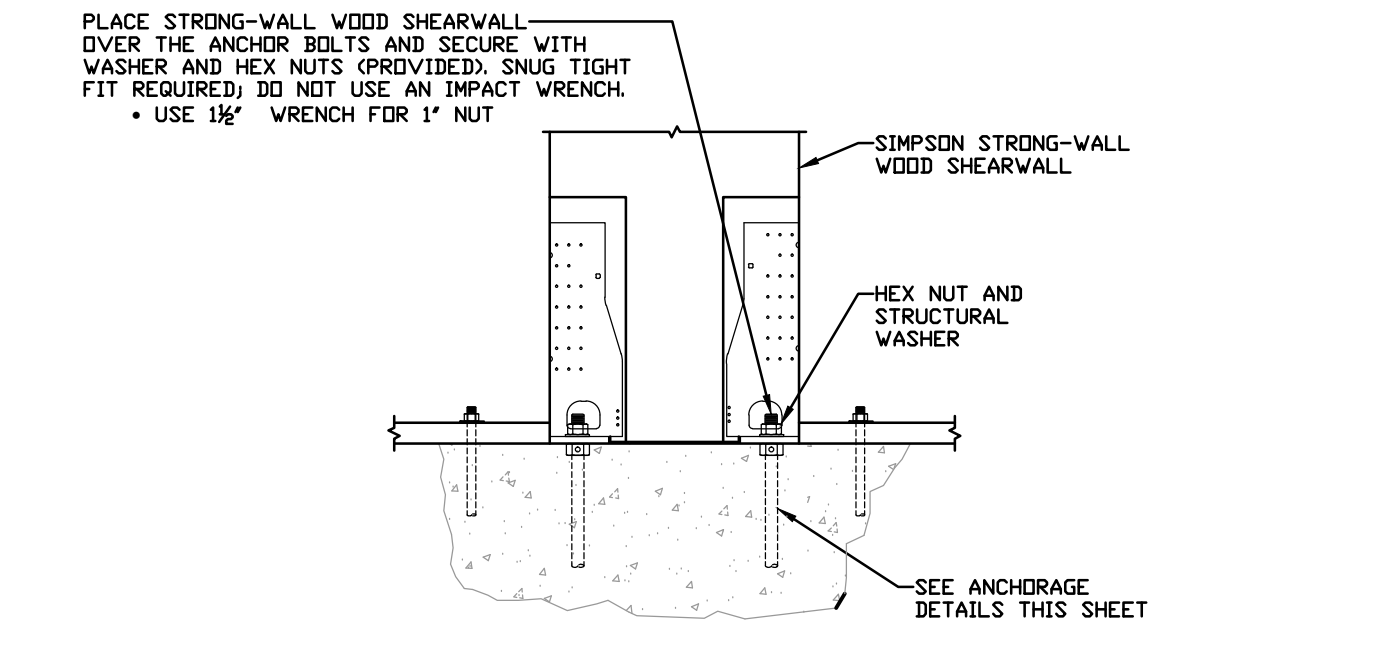
TRIM ZONE & ALLOWABLE HOLES 09
SCALE: 3/4" = 1'-0" SIMPSON_009 S5.1



WSW SHEAR WALL ELEVATION 05
SCALE: 3/4" = 1'-0" SIMPSON_005 S5.1



WSW WALL DETAIL 10
SCALE: 3/4" = 1'-0" SIMPSON_010 S5.1



WSW BASE CONNECTION 06
SCALE: 3/4" = 1'-0" SIMPSON_006 S5.1