

DESIGN SPECIFICATIONS

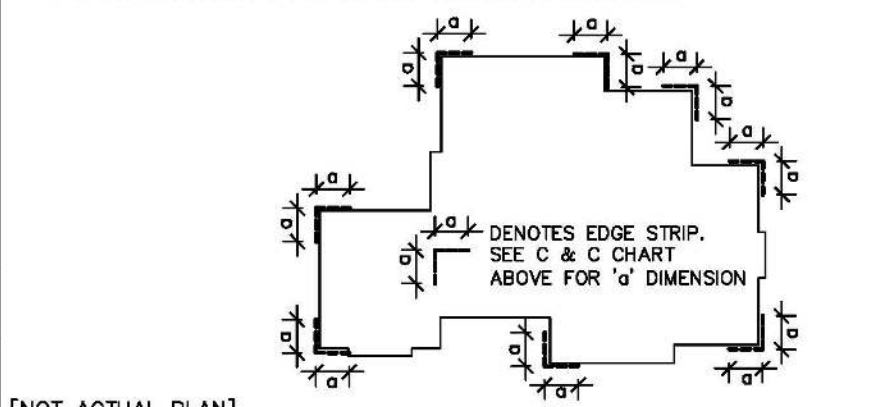
DESIGN CODE: 2017 FLORIDA BUILDING CODE - RESIDENTIAL DESIGN IS VOID ONE YEAR AFTER THE DATE OF THE ORIGINAL PLANS, UNLESS PLANS HAVE BEEN REVIEWED FOR CODE COMPLIANCE.		
DESIGN LOADS: ACTUAL AND UNIFORM		
	ROOF	FLOOR
ROOF LOADING (cd=1.25)	(cd=1.25)	(cd=1.00)
TOP CHORD DEAD LOAD	20 psf	40 psf
TOP CHORD DEAD LOAD	7 psf (ARCH SHINGLES)	10 psf
TOP CHORD DEAD LOAD	20 psf (TILE SHINGLES)	10 psf
BOTTOM CHORD DEAD LOAD	10 psf	0 psf
BOTTOM CHORD DEAD LOAD	5 psf	0 psf
DEFLECTION CRITERIA: ROOF FRAMING: LIVE LOAD L/240 TOTAL LOAD L/180 FLOOR FRAMING: LIVE LOAD L/360 & TOTAL LOAD L/240 0.75" MAX ANY CASE		
WIND LOADING: ASCE 7/10 FOR WIND UPLIFT, TRUSSES SHALL BE DESIGNED WITH A MIN. DEAD LOAD CONDITION OF 5 PSF TOP CHORD AND 5 PSF BOTTOM CHORD. REACTIONS CALCULATED FOR THE BEARING POINTS OF ROOF TRUSSES SHALL BE REDUCED. SPECIFICALLY, ATTIC FLOOR LIVE LOADS COMBINED WITH ROOF LIVE LOADS SHALL BE MULTIPLIED BY 0.75 WHEN COMBINED w/ DEAD LOAD.		
BASIC WIND SPEED (ASCE 7-10) ----- 130 MPH IMPORTANCE FACTOR ----- 1.00 MEAN ROOF HEIGHT ----- 20.0 FT ROOF PITCH ----- 7/12 BUILDING CATEGORY ----- C EXPOSURE CATEGORY ----- C ENCLOSURE CLASSIFICATION ----- ENCLOSED INTERNAL PRESSURE COEFFICIENT ----- ±.18		

MATERIAL SPECIFICATIONS

HARDWARE AND ANCHORS:
ANCHOR BOLTS & THREADED ROD: SHALL BE IN ACCORDANCE WITH ASTM A 307 OR ASTM F 1554 GRADE 36
WASHERS: SHALL BE IN ACCORDANCE WITH ASTM A500 (GRADE B).
NUTS: SHALL BE IN ACCORDANCE WITH ASTM A 563 GRADE A HEX METAL CONNECTORS. ALL METAL CONNECTORS WHICH ARE EXPOSED TO EXTERIOR SHALL BE GALVANIZED.
REBAR/ROD INSTALLATION: EMBEDMENT OF RODS OR REBAR DOWELS SHALL BE 12 BAR DIAMETER MINIMUM. HOLES SHALL BE 1/4" LARGER THAN REBAR SIX AND 1/4" LARGER THAN THREADED ROD SIZE. (U.O.N.)
ANCHORING ADHESIVE: SHALL BE ONE OF THE FOLLOWING PRODUCTS (QUAL CARTRIDGE INSTALLATION ONLY):
 EPOXY: ITW RED HEAD AT
REINFORCING STEEL: SHALL BE ASTM A615, GRADE 60.
STRUCTURAL STEEL: SHALL BE ASTM A992, GRADE 50.
WELDED WIRE FABRIC (WWF): SHALL BE ASTM A185.
LAMINATED VENEER LUMBER (LVL): ALL LAMINATED VENEER LUMBER SHALL MEET OR EXCEED THE FOLLOWING DESIGN PROPERTIES - ELASTIC MODULUS (E), 1,900ksi, BENDING STRESS (Fb) 2600psi

COMPONENTS & CLADDING ALLOWABLE DESIGN PRESSURES	GARAGE DOOR PRESSURES (PSF)	
	1 CAR GARAGE DOOR (8'x7')	2 CAR GARAGE DOOR (16'x7')
INTERIOR	25.6	22.9
EDGE STRIP (PSF):	25.6	22.9
ZONE (PSF)	25.6	22.9
10	25.6	22.9
50	22.9	22.9
100	21.8	22.9

THE VALUES ABOVE ARE ALLOWABLE WIND PRESSURE VALUES (ASD). THE ABOVE WIND PRESSURES HAVE BEEN REDUCED BY 0.60 AS PERMITTED BY THE ALLOWABLE STRESS DESIGN METHODOLOGY. NO FURTHER REDUCTION SHALL BE PERMITTED
 COMPONENT & CLADDING WALL ELEMENTS SHALL BE DESIGNED FOR BOTH POSITIVE AND NEGATIVE PRESSURES SHOWN IN TABLE ABOVE.
 LINEAR INTERPOLATION IS PERMISSIBLE.
 PLUS = PRESSURE AND MINUS = SUCTION.
 DESIGN OF WINDOWS/DOORS FASTENING TO THE WALL FRAMING IS THE RESPONSIBILITY OF THE WINDOW/DOOR MANUF./SUPPLIER & SHALL MEET THE ABOVE NOTED POSITIVE AND NEGATIVE PRESSURES.



SCOPE OF SERVICE

MEANS AND METHODS:
 THE STRUCTURAL ENGINEER SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES, OR SEQUENCES; FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR OR ANY OTHER PERSONS PERFORMING THE WORK OR FOR THE FAILURE FOR ANY OF THEM TO CONSTRUCT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
LIMITS OF STRUCTURAL ENGINEERING DESIGN RESPONSIBILITIES:
 THE ITEMS SPECIFICALLY DESIGNED BY THE STRUCTURAL ENGINEER ARE LIMITED TO THE FOLLOWING: CONTINUOUS LOAD PATH FOR WIND UPLIFT, WOOD PANEL SHEARWALLS, WALL FRAMING AND REQUIRED SHEATHING AND HEADERS DIRECTLY SUPPORTING ROOF FRAMING. ITEMS NOT DESIGNED PRE-ENGINEERED WOOD FLOOR AND ROOF TRUSSES, FLOOR FRAMING NOT SPECIFICALLY ADDRESSED, TRUSSES-TO-TRUSS CONNECTION, AND ANY ARCHITECTURAL, MECHANICAL OR ELECTRICAL SYSTEM.

GENERAL NOTES & CONSTRUCTION SPECIFICATIONS

FLOOR SHEATHING SPECIFICATIONS:
 23/32" 1&G OSB OR PLYWOOD SHEATHING, GABLE AND NAIL WITH 10d COMMON @ 6" O.C. EDGE & FIELD

ROOF SHEATHING SPECIFICATIONS:
SINGLE: MIN. 7/8", 24/16, APA RATED OSB OR PLYWOOD SHEATHING, NAILED w/ 0.113x2" RING SHANK NAILS @ 6" O.C. EDGE & 6" O.C. FIELD (AT GABLE ENDS DECREASE EDGE NAIL SPACING TO 4" O.C. WITHIN 4'-0" OF ROOF EDGE).
TILE: MIN. 15/32" 32/16, APA RATED PLYWOOD SHEATHING, NAILED w/ 0.113x2" RING SHANK @ 6" O.C. EDGE & 6" O.C. FIELD (AT GABLE ENDS DECREASE EDGE NAIL SPACING TO 4" O.C. WITHIN 4'-0" OF ROOF EDGE).
METAL: MIN. 1/2", 24/16, APA RATED PLYWOOD SHEATHING, NAILED w/ 0.113x2" RING SHANK NAILS @ 6" O.C. EDGE & 6" O.C. FIELD (AT GABLE ENDS DECREASE EDGE NAIL SPACING TO 4" O.C. WITHIN 4'-0" OF ROOF EDGE).

WALL SHEATHING SPECIFICATIONS:
FLEXIBLE FINISH: MIN. 7/8", 24/16, APA RATED OSB OR PLYWOOD SHEATHING, FASTENED w/ 8d @ 6" O.C. EDGE AND 6" O.C. FIELD. SHEATHING SHALL EXTEND FULL HEIGHT FROM BOTTOM PLATE TO UPPER TOP PLATE. FLEXIBLE FINISH WALLS INCLUDE: WOOD, CEMENT, OR VINYL SIDING, HARDI PANEL & BRICK. ALL OTHER WALL SHALL BE CONSIDERED BRITTLE FINISH.

STUCCO FINISH: MIN. 7/8", 24/16, APA RATED OSB OR PLYWOOD SHEATHING, FASTENED w/ 8d @ 6" O.C. EDGE AND 6" O.C. FIELD. SHEATHING SHALL ORIENTED WITH THE LONG DIMENSION PERPENDICULAR TO THE STUDS. CONTRACTOR MAY USE 1/2" STRUCTURAL 1 GRADE SHEATHING OR 1/2" OSB SHEATHING AND ORIENT THE PANELS VERTICALLY.

MASONRY SPECIFICATIONS:
 MASONRY HAS BEEN DESIGNED IN ACCORDANCE WITH ACI 530-05, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI530.1-05. GROUT SHALL BE IN ACCORDANCE WITH ASTM C476 WITH A MINIMUM OF 28 DAY COMPRESSIVE STRENGTH OF 2000 psi PER ASTM C909. GROUT SHALL HAVE A MAXIMUM COURSE AGGREGATE SIZE OF 3/4" PLACED AT AN 8" TO 11" SLUMP. MORTAR SHALL CONFORM TO ASTM C270 AND TYPE M OR S. TYPE N MORTAR MAY BE USED IN BRICK VENEER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL LASHING.

CONCRETE MASONRY UNITS (CMU):
 CMU SHALL BE IN ACCORDANCE WITH ASTM C90-75, HOLLOW LOAD-BEARING (CMU), TYPE 1, GRADE N-1, NORMAL WEIGHT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1900 psi (f'm=1500 psi). GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT IN 5'-0" MAXIMUM LIFTS PROVIDE CLEANOUTS PER ACI 530.1-02 IN THE BOTTOM OF COURSE OF MASONRY WHEN THE WALL HEIGHT EXCEEDS 5'-0".

MASONRY STEEWALLS: ALL CONCRETE MASONRY UNITS SHALL BE COMPOSED OF ASTM C90, E GRADE N-1 HOLLOW CONCRETE MASONRY UNITS WITH TYPE "S" MORTAR. WALL COURSING SHALL BE RUNNING BONDS, STACK BOND SHALL NOT BE USED. GROUT ALL CELLS CONTAINING VERTICAL REINFORCEMENT WITH 3000 PSI PEA ROCK CONCRETE GROUT. SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE 48 BAR DIAMETERS. ALL EXTERIOR WALLS SHALL BE REINFORCED FULL HEIGHT WITH - #4 @ 4'-0" O.C. MAX. AND AT EACH CORNER, WALL END, AND WALL INTERSECTIONS. PROVIDE CONTINUITY OF REINFORCING AT INTERSECTIONS OF PERPENDICULAR MASONRY ELEMENTS BY INSTALLING CORNER BARS, MINIMUM OF 40 BAR DIAMETERS INTO EACH ELEMENT. AT STEEWALL CONSTRUCTED OF 5 OR MORE COURSES, PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. VERTICALLY. (EVERY OTHER COURSE), AND VERTICAL REINF. SHALL BE INCREASED AS NOTED ON 1/51.0, UNLESS NOTED OTHERWISE, LAP JOINT REINFORCEMENT SHALL BE A MINIMUM OF 6".

CONCRETE SPECIFICATIONS:
 ALL CONCRETE HAS BEEN DESIGNED IN ACCORDANCE WITH ACI 318-08, AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 301. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE AT GARAGE AND PORCH SLABS SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI.

GENERAL NOTES:
FOOTING AND FOUNDATIONS:
 FOOTINGS AND FOUNDATIONS SHALL BE IN ACCORDANCE WITH LOCAL BUILDING CODES. FOOTING HAVE BEEN DESIGNED WITH A SOIL BEARING (DESIGN MAXIMUM) OF 2000 PSF. A SOILS INVESTIGATION REPORT IS RECOMMENDED TO VERIFY SUITABLE SUBSURFACE CONDITIONS. IF THE FOOTING ELEVATIONS SHOWN OCCUR IN A DISTURBED OR UNSTABLE SOIL, THE ENGINEER SHALL BE NOTIFIED. SOIL SHALL BE FREE OF ORGANIC MATERIAL AND COHESIVE (CLAY) SOILS. SOIL COMPACTION AND FILL SHALL BE COMPACTED TO A MIN. OF 95% MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557.

FOUNDATION PLAN ONLY CONVEYS STRUCTURAL INFORMATION. FOR GENERAL FEATURES, CONDUTIS, ELECTRICAL EMBEDS, STEP HEIGHTS, ETC., SEE ARCHITECTURAL PLANS. DO NOT SCALE FOOTING DIMENSIONS AND LOCATION FROM THE FOUNDATION PLAN SHOWN ON S1.0. DO NOT DETERMINE FOOTING LOCATION BASED ON EITHER THE ARCHITECTURAL PLAN OR FRAMING PLAN, BUT BY DIMENSIONS PROVIDED ON FOUNDATION PLAN. IF FOOTING SIZE OR LOCATION IS NOT DETERMINED ON PLAN THEN CONTACT ENGINEER OF RECORD (EOR)

UNLESS OTHERWISE NOTED ON DRAWINGS, MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE 3" IN FOOTINGS AND MESH SHALL BE CENTERED IN SLAB ON GRADE. IN ALL CONTINUOUS FOOTINGS PROVIDE #3 @ 48" O.C. OR ROD CHAIRS. PROVIDE CONTINUITY OF REINFORCING AT INTERSECTIONS OF PERPENDICULAR CONCRETE ELEMENTS BY INSTALLING CORNER BARS, MINIMUM OF 40 BAR DIAMETERS

CONCRETE SLABS ON GRADE:
 SHALL BE INSTALLED OVER MINIMUM 6 MIL POLYETHYLENE VAPOR RETARDER WITH JOINTS LAPPED 6" & SEALED OVER CLEAN, COMPACTED EARTH OR FILL WITH APPROVED CHEMICAL TREATMENT FOR PREVENTION OF SUBTERRANEAN TERMITES. SAWCUTS FOR CONTROLLED CRACKING OUT A 1" SAWCUT INTO SLAB IN A 12x12" GRID WITHIN 12 HOURS OF CONCRETE PLACEMENT, PROVIDE SAWCUTS THROUGH OUT SLAB CALL EOR FOR ALTERNATIVE METHODS.

WOOD FRAMING SPECIFICATIONS:
 ALL WOOD FRAMING HAS BEEN DESIGNED IN ACCORDANCE WITH NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WOOD CONSTRUCTION, LATEST EDITION. ALL WOOD MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY, CONCRETE OR SOIL SHALL BE STEEL- TREATED, IF ACQ OR NON-DOT BORATE PRESERVATIVE TREATMENT IS USED, ALL ATTACHED FASTENERS SHALL BE HOT DIPPED GALVANIZED. IF AZCA PRESERVATIVE IS USED, ALL ATTACHED FASTENERS SHALL BE STAINLESS STEEL.

PRE-ENGINEERED WOOD TRUSSES:
 SHALL BEAR THE SEAL OF AN ENGINEER IN THE STATE WHERE PROJECT IS BEING BUILT AND SHALL COMPLY WITH NFPA, TPI, AND AITC 100. CONTRACTOR SHALL VERIFY THAT ADEQUATE TRUSS BEARING IS INSTALLED AT ALL TRUSSES AS INDICATED IN THE TRUSS SHOP DRAWINGS. ALL TRUSS-TO-TRUSS CONNECTIONS AND TRUSS PROFILES ARE THE RESPONSIBILITY OF THE DELEGATED TRUSS ENGINEER. ALL TRUSSES SHALL HAVE TEMPORARY BRACING PER COMMENTARY AND RECOMMENDATION FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91." AT MULTIPLE STRAP CONNECTIONS, SPREAD STRAPS TO AVOID NAILING CONFLICTS THROUGH TRUSSES. WHEN USING (2) STRAPS ON SINGLE PLY TRUSSES, PLACE STRAPS DIAGONALLY ACROSS DBL. TOP PLATE FROM EA. OTHER.

ROOF COVERING SPECIFICATIONS:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE ROOF COVERING SYSTEM. ASPHALT SHINGS SHALL COMPLY WITH ASTM D3161 AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S REQUIREMENTS. CLAY AND TILE ROOFS SHALL BE INSTALLED PER THE "CONCRETE AND CLAY ROOF TILE INSTALLATION MANUAL," AND THE MANUFACTURER'S REQUIREMENTS. STANDING SEAM METAL ROOFS SHALL COMPLY WITH ASTM E1514 AND BE INSTALLED ACCORDING TO THE MANUFACTURER'S REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL METAL FLASHING AND VALLEY MATERIALS.

WATERPROOFING:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN/INSTALLATION OF ALL WATER PROOFING.

WOOD FASTENING SCHEDULE

MEMBERS	CONNECTION TYPE	FASTENER
TOP PLATE TO TOP PLATE	FACE NAIL	2-GUN NAILS @ 12" STAG.
TOP PLATE, LAPS/INTERSECTION	FACE NAIL	(2-16d) 3-GUN NAILS
DBL. TOP PLATE TO STUD	FACE NAIL	(2-16d) 3-GUN NAILS
RIM JOIST TO TOP PLATE	TOE NAIL	(8d @ 6") GUN NAIL @ 6"
CEILING JOIST TO TOP PLATE	TOE NAIL	(3-8d) 5-GUN NAILS
CEILING JOIST, OVER PARTITIONS	FACE NAIL	(3-16d) 4-GUN NAILS
CEILING JOIST TO ROOF RAFTER	FACE NAIL	(6-16d) 8-GUN NAILS
JOIST/TRUSS TO PLATE	TOE NAIL	(2-16d) 3-GUN NAILS
RAFTER TO PLATE	TOE NAIL	(3-8d) 3-GUN NAILS
JACK RAFTER TO HIP	TOE NAIL	(3-10d) 4-GUN NAILS
ROOF RAFTER TO 2x... RIDGE BM.	TOE NAIL	(2-16d) 3-GUN NAILS
CONT. HEADER, TWO PIECES	FACE NAIL	16d @ 16" O.C. @ EDGE
CONT. HEADER TO STUD	TOE NAIL	(3-16d) 4-GUN NAILS
STUD TO SOLE PLATE	TOE NAIL	(3-16d) 4-GUN NAILS
SOLE PLATE TO JOIST/BLOCKING	FACE NAIL	(16d @ 16") GUN NAIL @ 6"

BRICK NOTES / LINTEL SCHD

LINTEL DIMENSION	MIN. BRG.	MAX. SPAN
13 1/2"x3 1/2"x1/4"	4"	6'-0"
14x3 1/2"x1/4"	6"	8'-0"
15x3 1/2"x1/4"	6"	10'-0"
16x3 1/2"x1/4"	6"	12'-0"
17x3 1/2"x1/4"	6"	16'-0"

1. STEEL LINTELS TO BE MINIMAL 36" LINTEL MUST HAVE CORROSION RESISTANT COATING OF EPOXY BASED PAINT.

2. LINTEL SUPPORTED NOT 8'-0". SHOULD BE LATERALLY MORE THAN 8'-0". EXCEED 8 FT. O.C. w/ 2-1/2"x3" WD. SCREWS INTO HEADER PROVIDE A 1/2" VERTICAL SLOTTED HOLE FOR SCREW.

3. BRICK VENEER ATTACHMENT: HORIZONTAL TIES @ 24" O.C. VERT. TIES @ 12" O.C. (FOR 10mph WIND-ZONE VERT. TIES @ 16" O.C.). AT ALL OPENINGS SPACE TIES WITHIN 12" OF OPENINGS. PROVIDE 3/8" WEEP HOLES @ 33" O.C. IMMEDIATELY ABOVE LASHING.

PLAN LEGEND AND ABBREVIATIONS

INTERIOR LOAD BEARING WALL	BUILT-UP POST IN THE WALL
CABLE X-BRACE, SEE DETAIL 10/SO.1	HEADER SIZE, JACK AND KING STUD QUANTITY.
DESIGNATES SHEARWALL. THE HIDDEN LINE DESIGNATES SIDE OF WALL. THE SHEARWALL SHEATHING TO BE APPLIED 8d @ 3/8" O.C. EDGE & 6" O.C. IN THE FIELD.	
SW 3/8"	
ADJ - ADJACENT	LG - Long
BM - BEAM	MANUF - Manufacture
BOT - BOTTOM	MONO - Monolithic
BRG - BEARING	OC - On Center
CMU - CONCRETE MASONRY UNIT	OSB - Oriented Strand Board
DBL - DOUBLE	PERP - Perpendicular
DIA - DIAMETER	PRI ENG - Pre Engineered
PSF - Pounds per Square Foot	PSF - Pounds per Square Foot
EE - EACH END	PT - PRESSURE TREATED
EOR - ENGINEER OF RECORD	QT - Quick Tie
EQ - EQUAL	REINF - Reinforce
EXT - EXTERIOR	SP - Square Foot
FBC - FLORIDA BUILDING CODE	WD - WOOD
FT - FOOT	WIND-ZONE VENT - Wind Zone Vent
FTG - FOOTING	YP - Yellow Pine Fir
FOR - FLOOR	SVP - Southern Yellow Pine
FTT - FOOT	THRU - Through
HTD - HORIZONTAL	TYP - Typical
LSB - POUNDS	UON - Unless Otherwise Noted
	VERT - Vertical
	WVF - Welded Wire Fabric

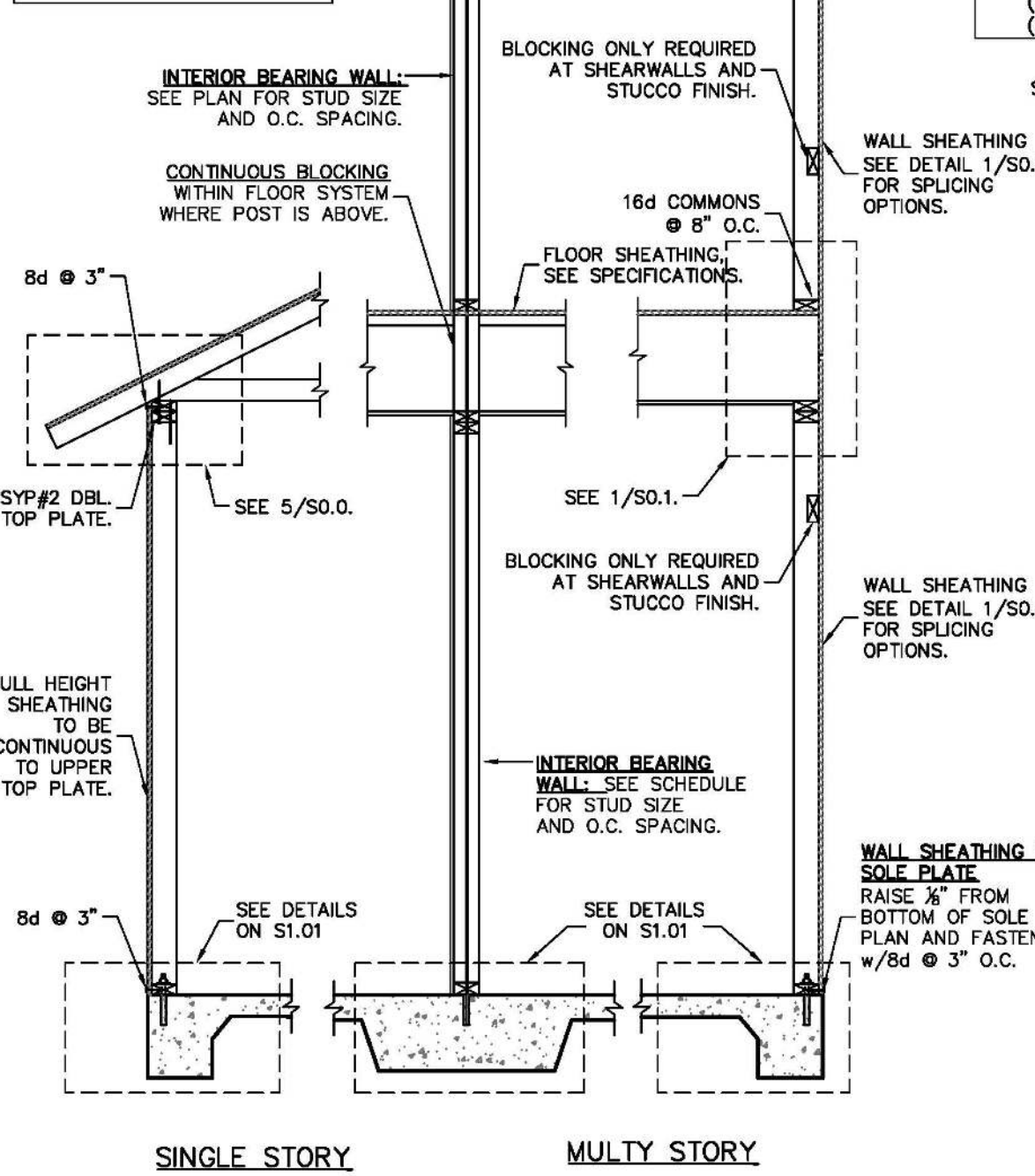
USP CONNECTORS

CONNECTOR	UPLIFT		FASTENERS	FL# CODE
	SYP	SPF		
USP A35	450	450	(9)10d1 1/2"	
USP R77	585	495	(5)8d EA. END	
USP RT8A	775	850	(5)10d1 1/2" EA. END	
USP MTW12	1195	860	(7)10d1 1/2" EA. END	
USP HTW20	1450	1245	(12)10d1 1/2" EA. END	
USP MSTA24	1640	1455	(9)10d EA. END	
USP MSTA36	2065	2065	(13)10d EA. END	
USP LTS20B	1105	1105	1/2" ROD TO FTG.	
USP JUS28	1305	1305	(6)10d TO HEADER	
USP HTT16	4290	4290	3/4" ROD TO FTG.	
USP HTT22	5370	5370	3/4" ROD TO FTG.	
USP PAU44	2535		3/4" ROD w/ (12)16d	
USP PAU66	2535		3/4" ROD w/ (12)16d	
USP MSTM24	1545	1455	(5)1/4"x2-1/4" TAPCONS	

SIMPSON CONNECTORS

CONNECTOR	UPLIFT		FASTENERS	FL# CODE
	SYP	SPF		
A35	450	450	12-8d1 1/2"	10446.4
H25T	600	520	5-8d EA. END	11478.3
HTS16	1150	1085	16-10d EA. END	10456.6
MTS12	1000	860	7-10d1 1/2" EA. END	10456.3
HTS20	1450	1245	24-10d1 1/2" EA. END	13872.3
MSTA24	1765	1270	9-10d EA. END	13872.4
MSTA36	2050	1870	13-10d EA. END	13872.8
HTT4	3480	3080	18-16d TO TRUSS/BEAM	11496.2
			1-1/4" ROD TO FTG.	
HTT5	5250	4670	32-16d TO TRUSS/BEAM	11496.2
			1-1/4" ROD TO FTG.	
LUS28	930	780	6-10d TO HEADER	10655.113
			4-10d TO JOIST	
HU410	905	785	14-16d TO HEADER	10531.36
			6-16d TO JOIST	
ABU44	2200		3/4" ROD EPOKID 6" MIN	10849.6
ABU66	2300		3/4" ROD EPOKID 6" MIN	10849.6
SET	N/A	N/A	SIMPSON EPOXY-TIE	11506.4
LTT20B	1675	1675	10-16d TO STUD/BEAM/POST	11496.3
LSTA12	805	695	10-10d	13872.5
CS16	1705	1705	13-8d	10852.1

TYPICAL WALL FRAMING NOTES:
 1. USE SYP#2 OR BETTER FOR ALL WALL STUDS.
 2. USE SYP#2 FOR ALL TOP PLATES AND SOLE PLATES.
 3. USE SYP#2 FOR ALL HEADERS.
 4. ALL WALLS SHALL BE BALLOON FRAMED FULL HEIGHT TO ROOF OR FLOOR BEARING ELEVATION, U.O.N. ON PLAN.
 5. FASTEN BOTTOM PLATE OF INTERIOR LOAD BEARING WALLS TO CONCRETE SLAB w/ 10d MASONRY OUT NAILS @ 48" O.C. MINIMUM. SEE FOUNDATION PLAN ADDITIONAL ANCHORS AT SHEARWALLS.

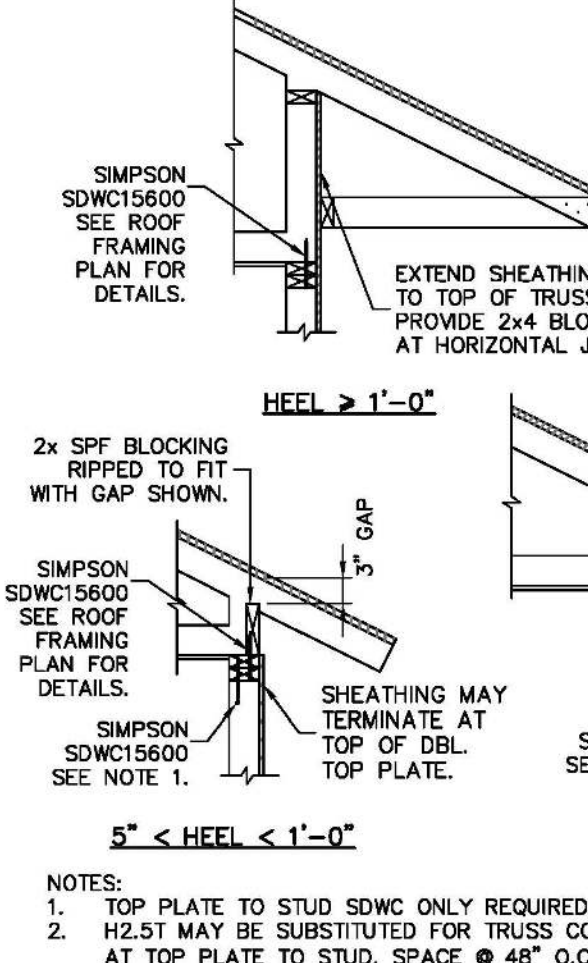


SINGLE STORY

MULTY STORY

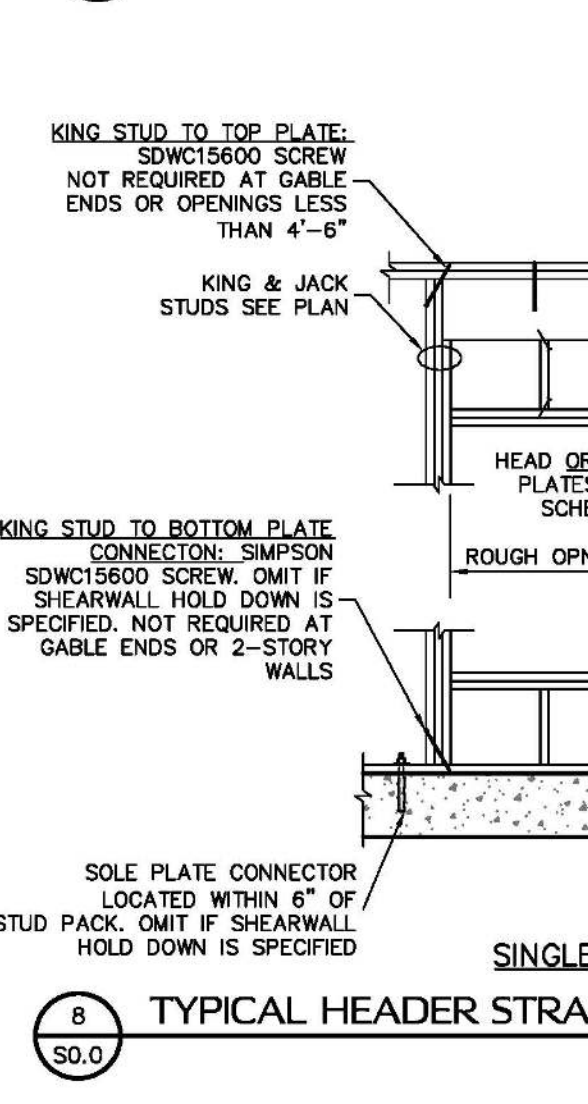
1 TYP. WALL SECTIONS

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5 TYP. ROOF TRUSS CONNECTION

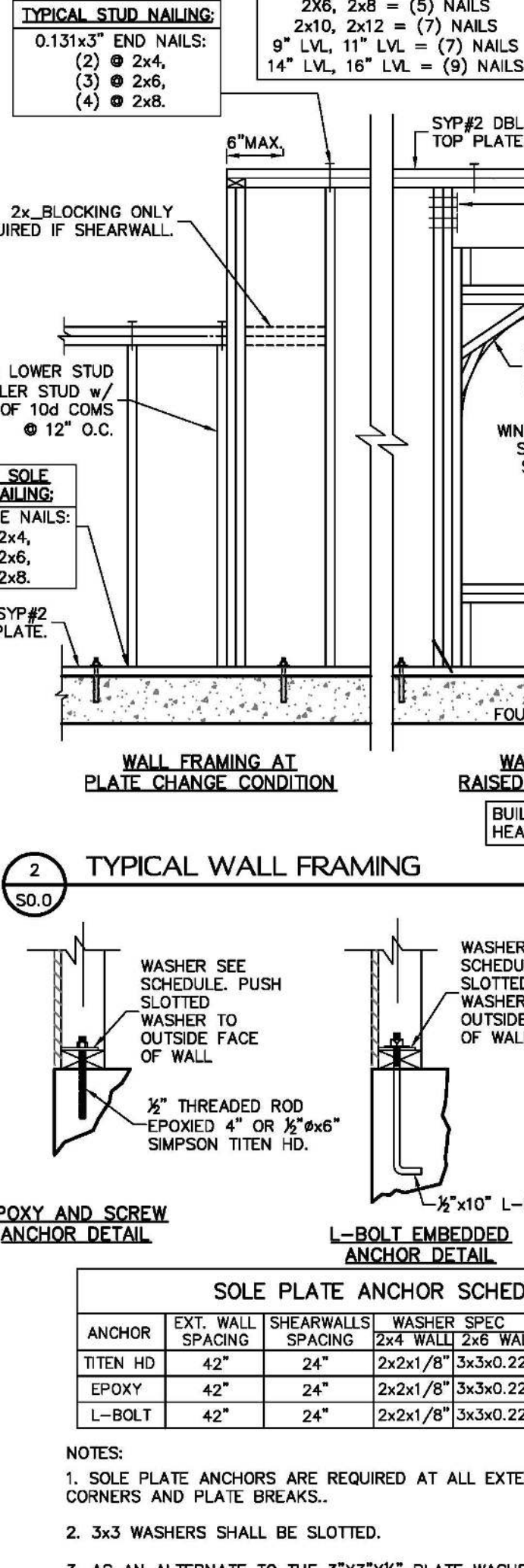
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8 TYPICAL HEADER STRAPPING

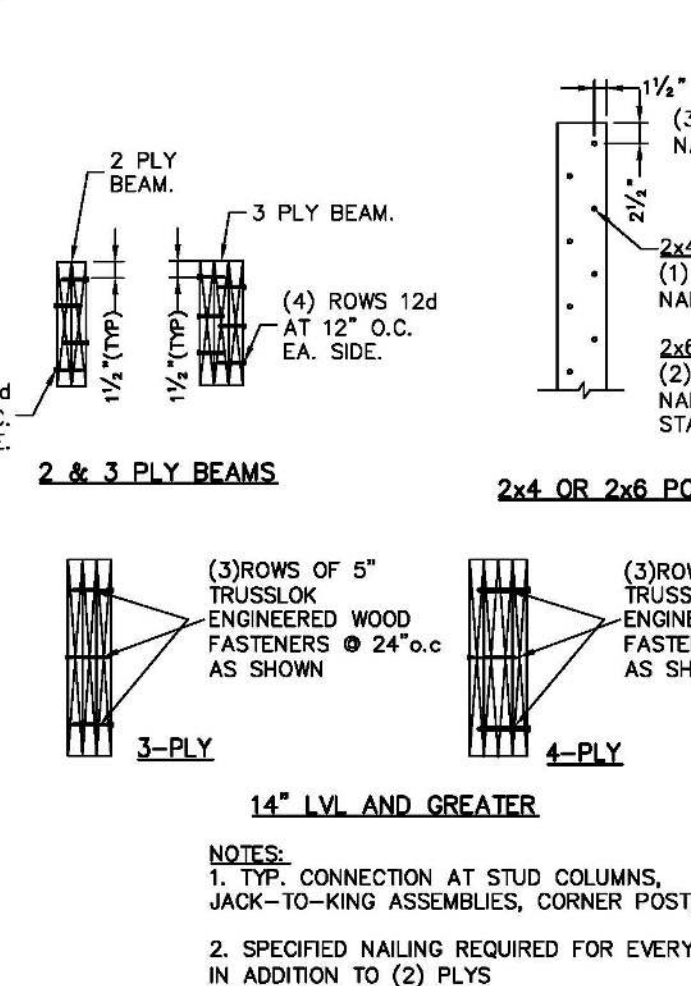
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TYPICAL WALL FRAMING



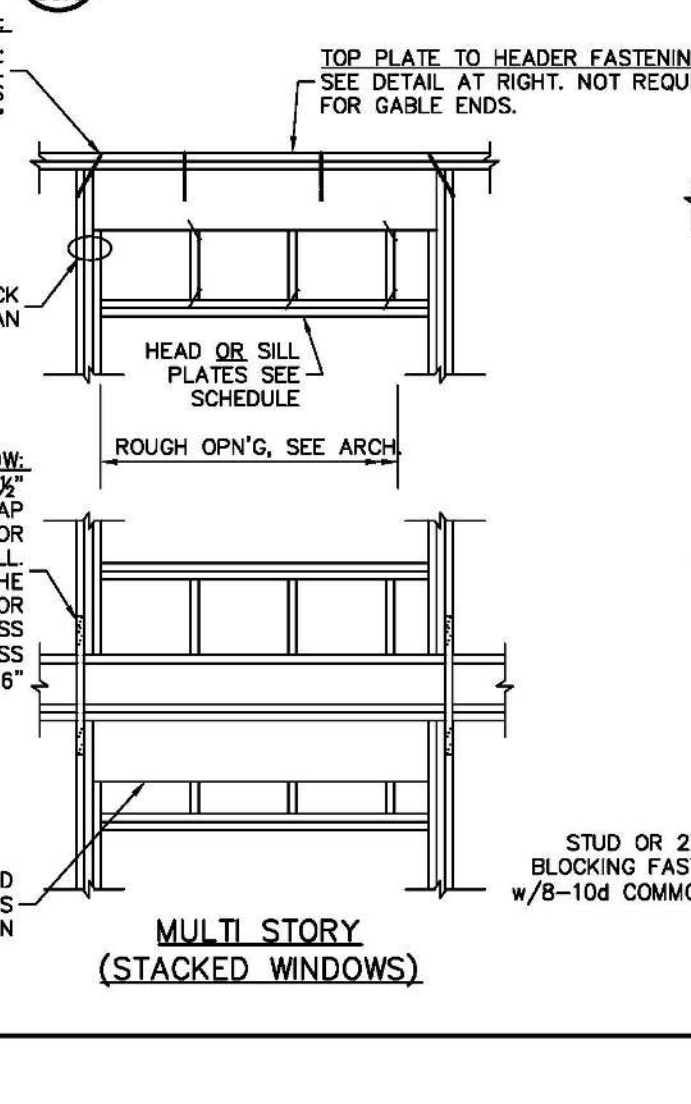
2 TYPICAL WALL FRAMING

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3 SOLE PLATE ANCHOR DETAIL & SCHEDULE

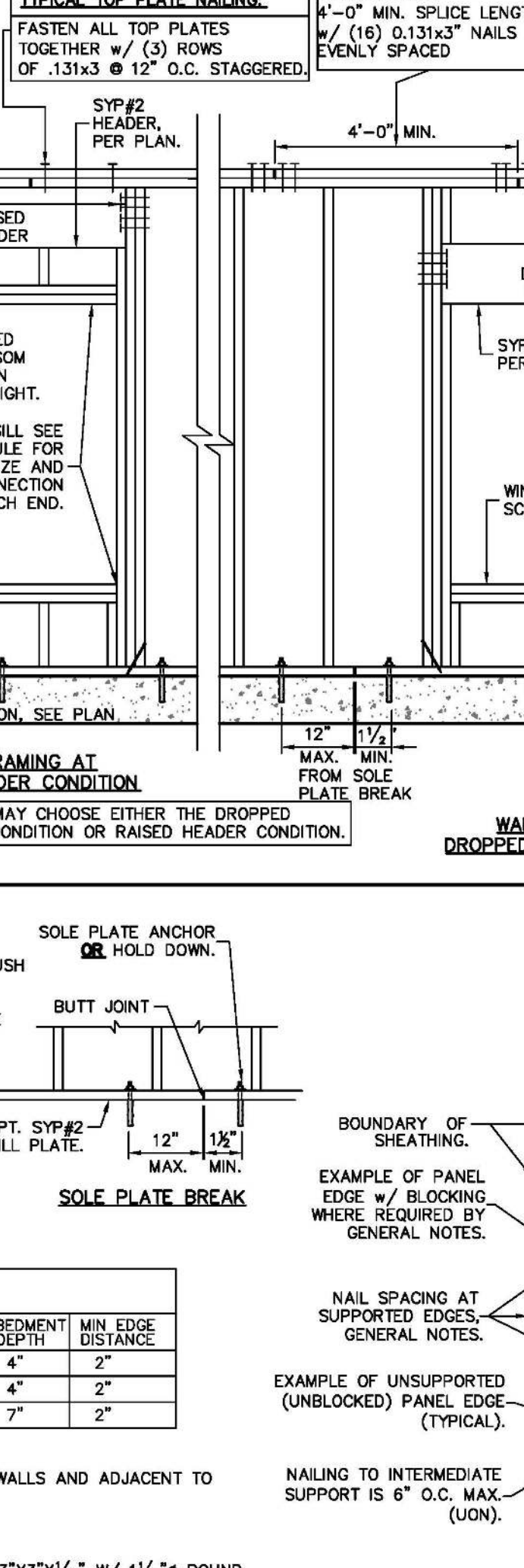
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6 BUILT-UP MEMBER FASTENING

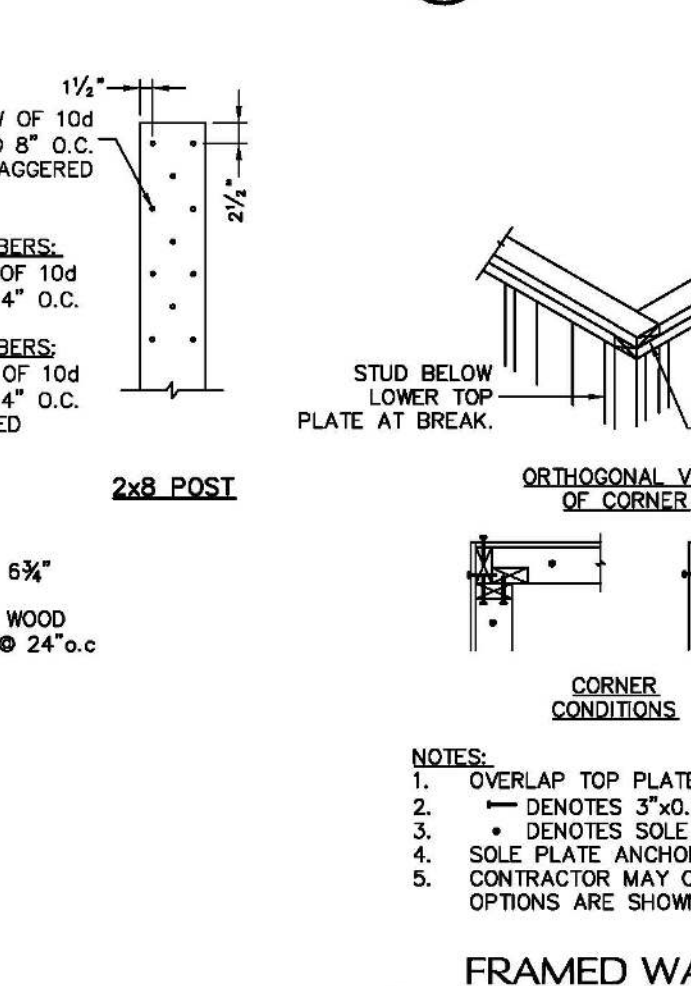
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TYPICAL WALL FRAMING



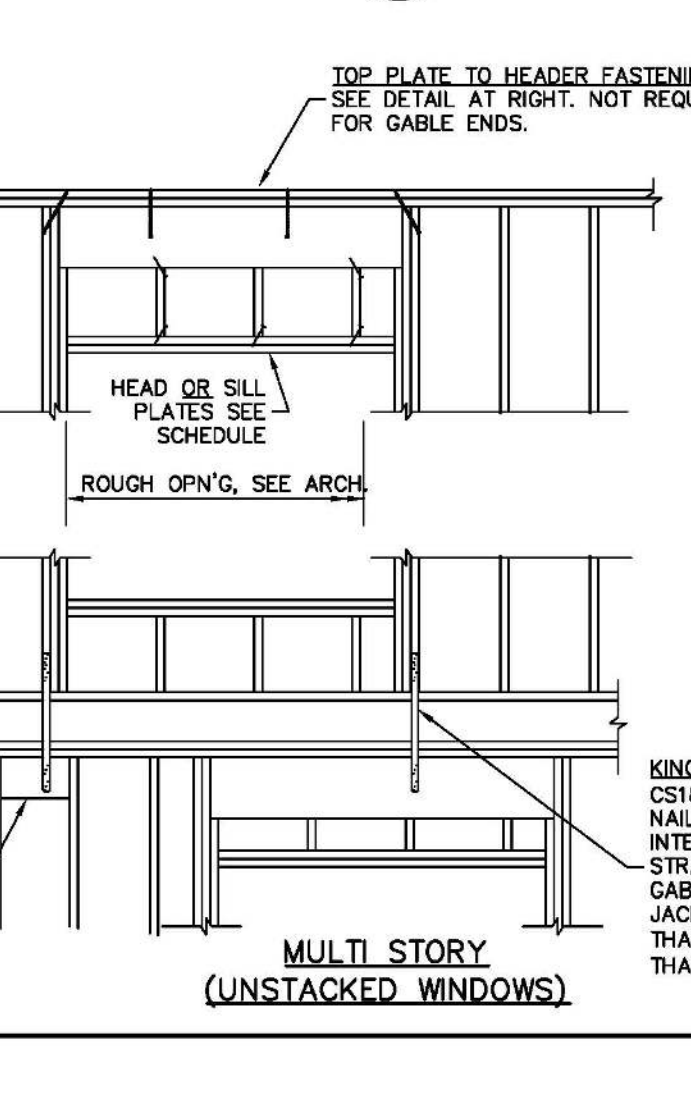
4 ROOF AND FLOOR SHEATHING NAILING

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7 FRAMED WALL CORNER AND INTERSECTIONS STUDS CONFIGURATIONS

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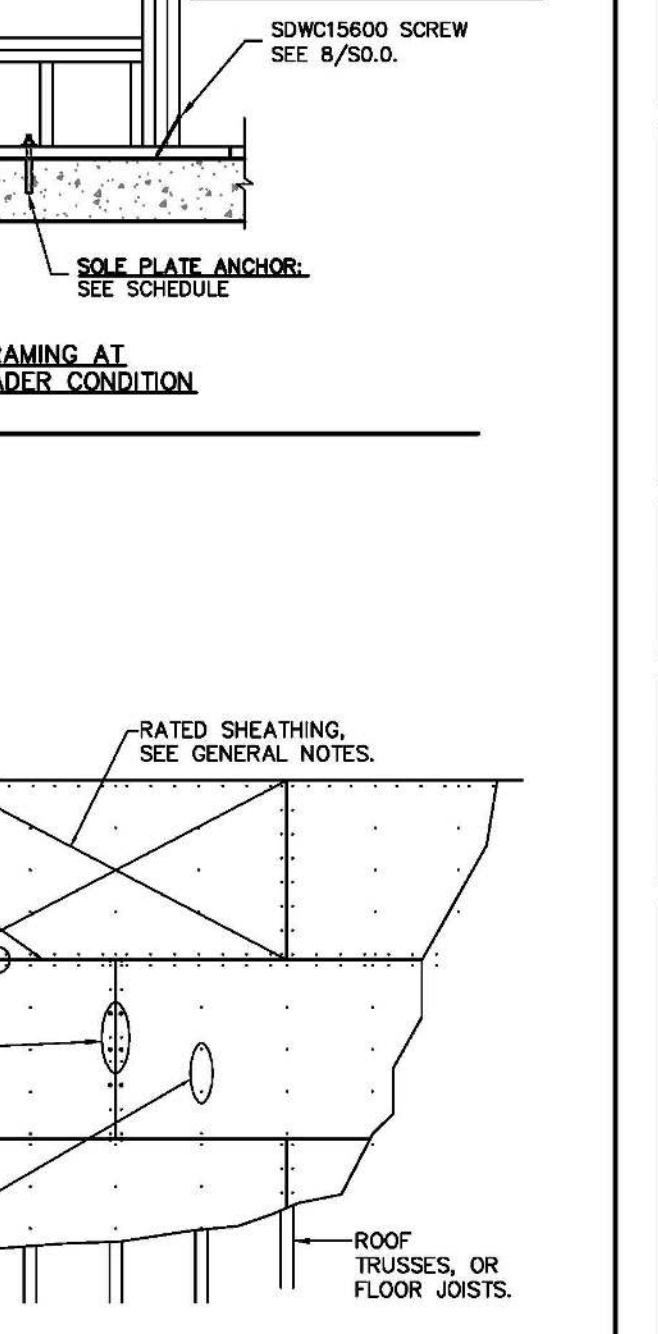


7 FRAMED WALL CORNER AND INTERSECTIONS STUDS CONFIGURATIONS

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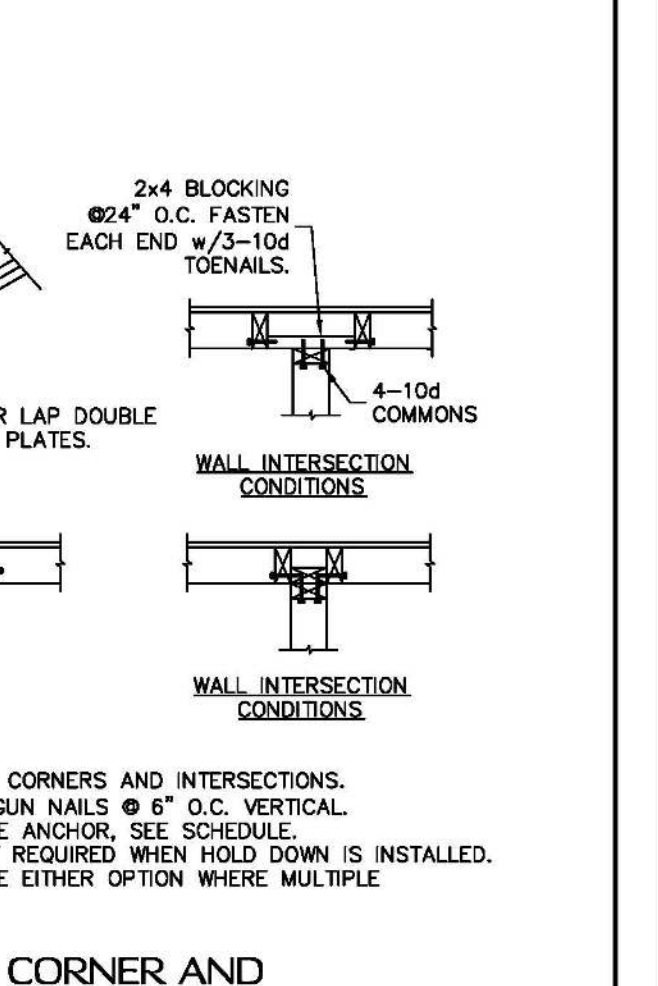
WINDOW SILL SCHEDULE

ROUGH OPENING OR SILL PLATES	DROPPED HEAD OR SILL PLATES	MINIMUM END FASTENER EACH END
4'-4"	(1)2x4 SPF #2	(4)12d TOE NAILS
6'-4"	(2)2x4 SPF #2	(5)12d TOE NAILS
8'-4"	(3)2x4 SPF #2	(1)A34 + (4)12d TOE NAILS
12'-0"	(3)2x6 SYP #2	(1)A35 + (4)12d TOE NAILS



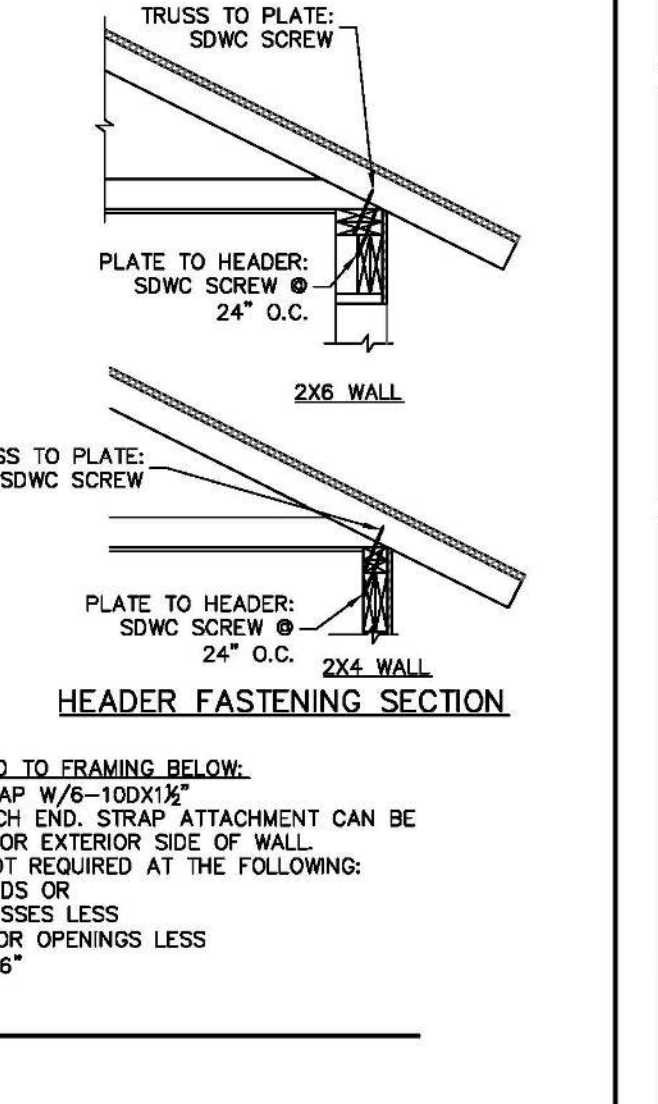
4 WINDOW SILL SCHEDULE

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4 WINDOW SILL SCHEDULE

SO.0



4 WINDOW SILL SCHEDULE

SO.0

12.22.20
Christopher J. Sabourin
FL PE#71461

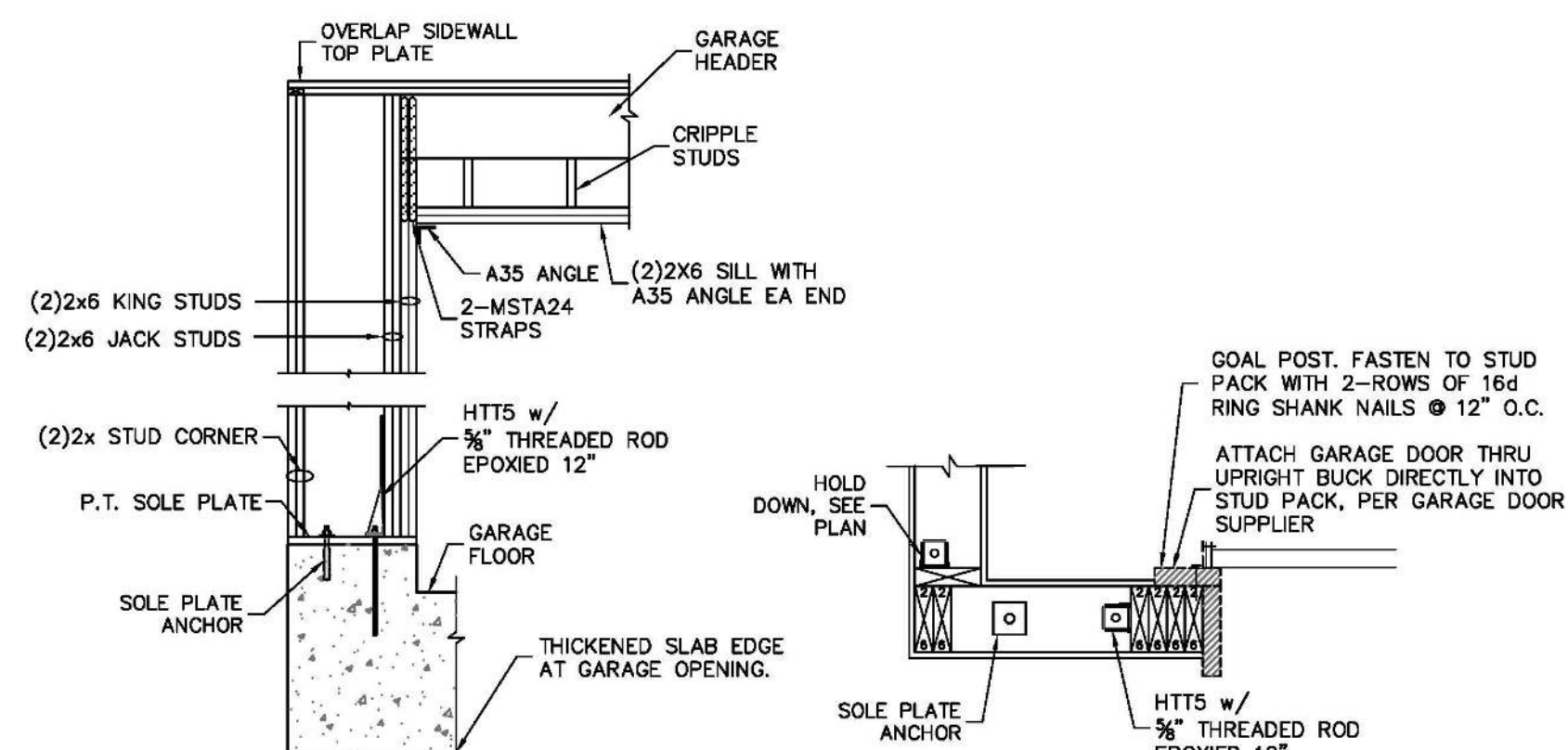
SABO
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CA#32529
235 9TH AVE N
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904-712-5750
CHRIS@SABOENG.COM

PLAN NAME
GARBER RESIDENCE

SSE No.
20-0541

ISSUE DATE
PERMIT 12.22.20
REVISIONS DATE

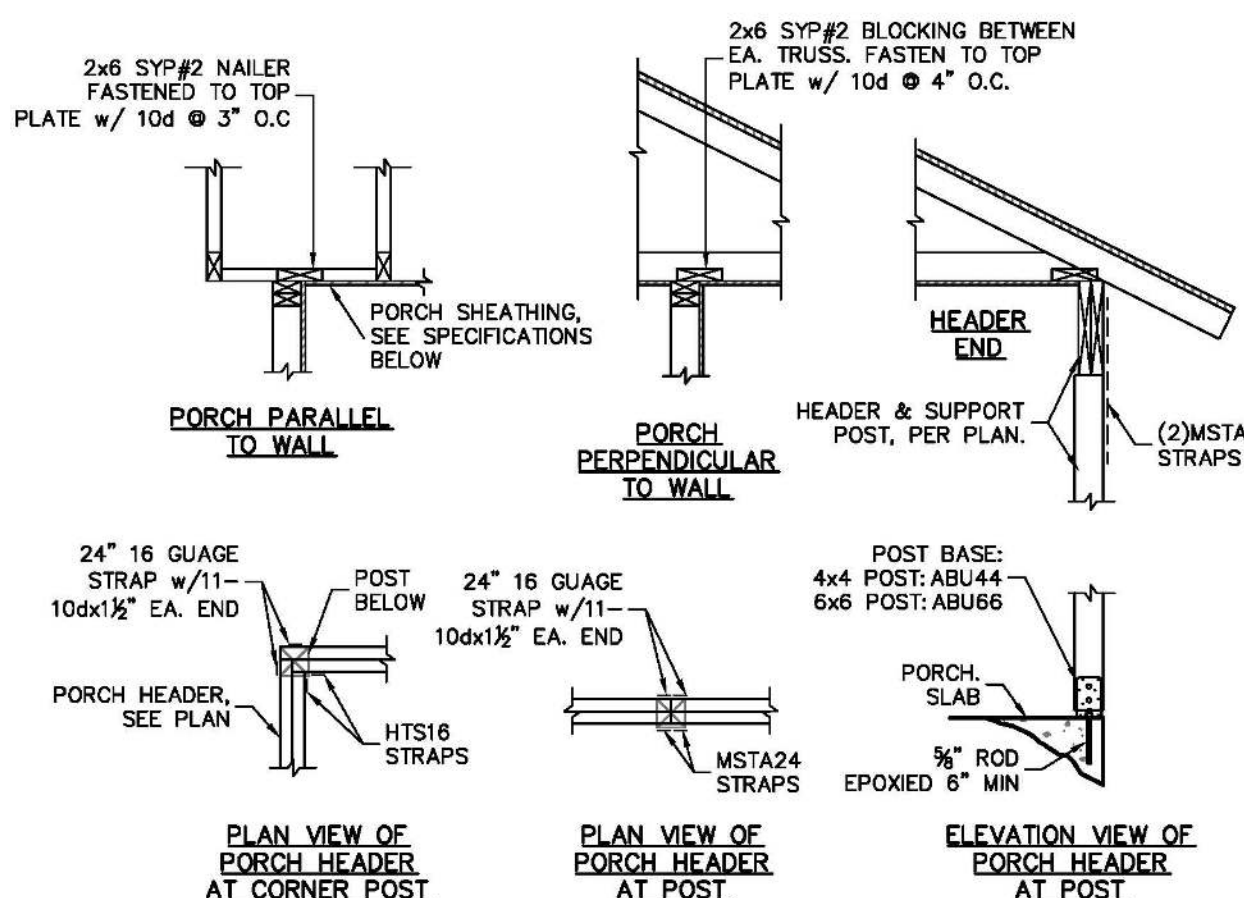
STRUCTURAL ENGINEERING



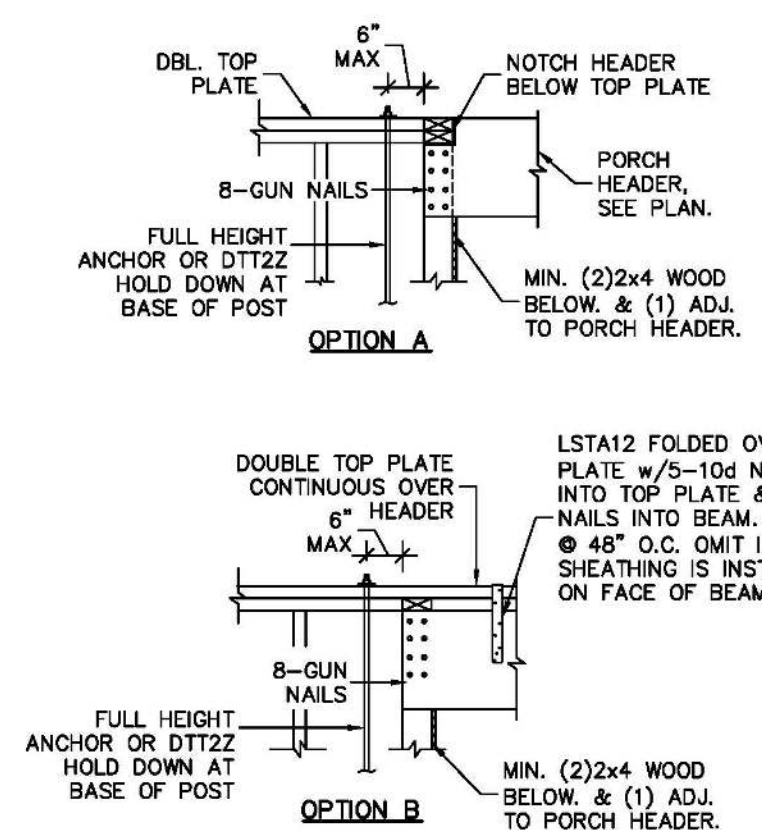
GARAGE WING WALL ELEVATION

GARAGE WING WALL SECTION

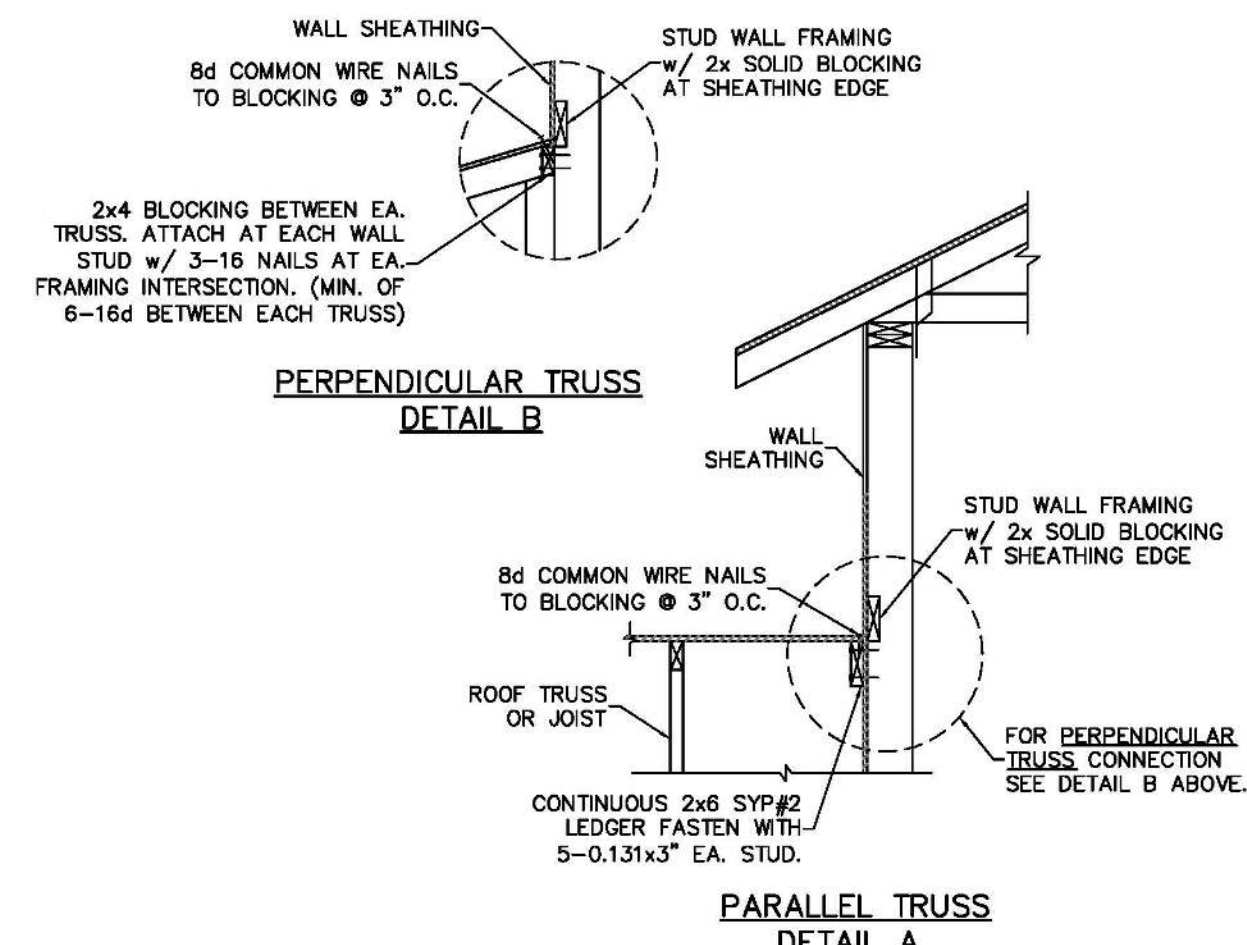
1
S0.1
GARAGE HEADER FRAMING
SCALE: N.T.S.



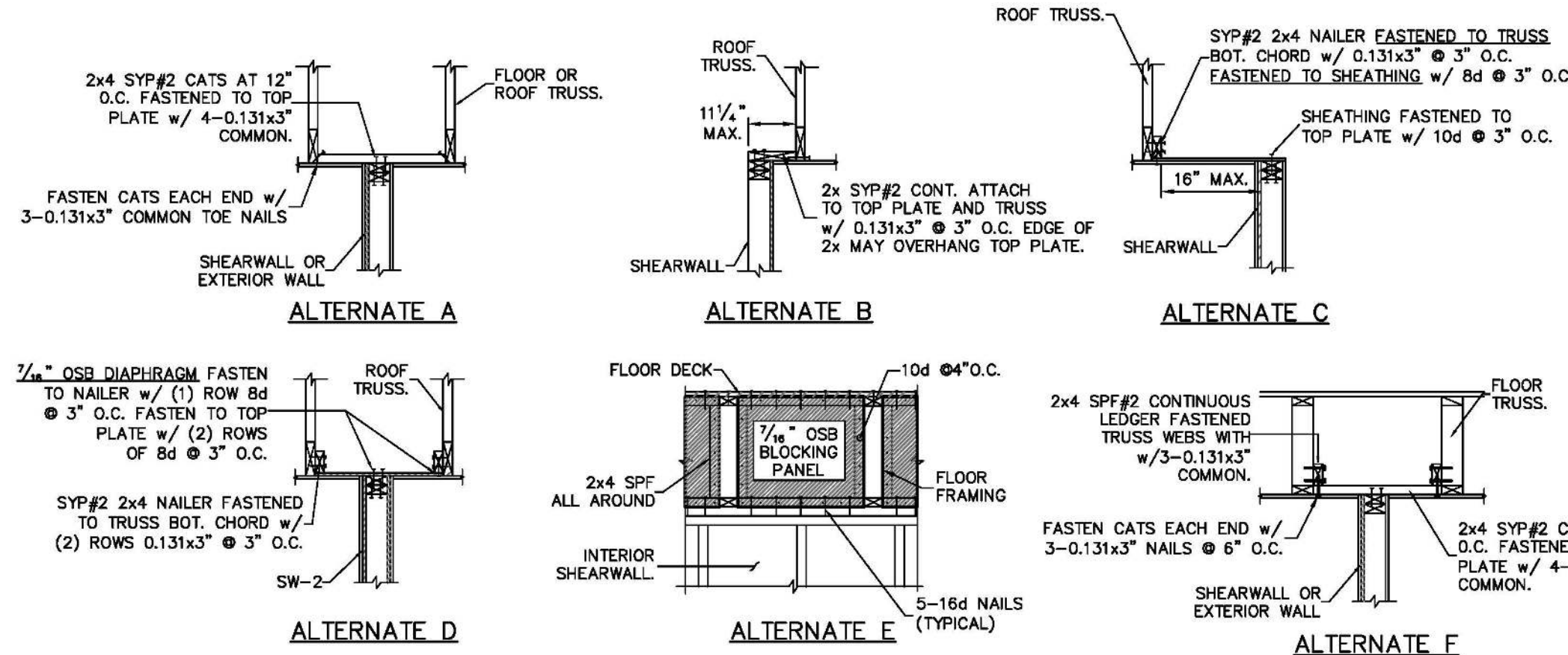
2
S0.1
TYPICAL PORCH FRAMING DETAILS
SCALE: N.T.S.



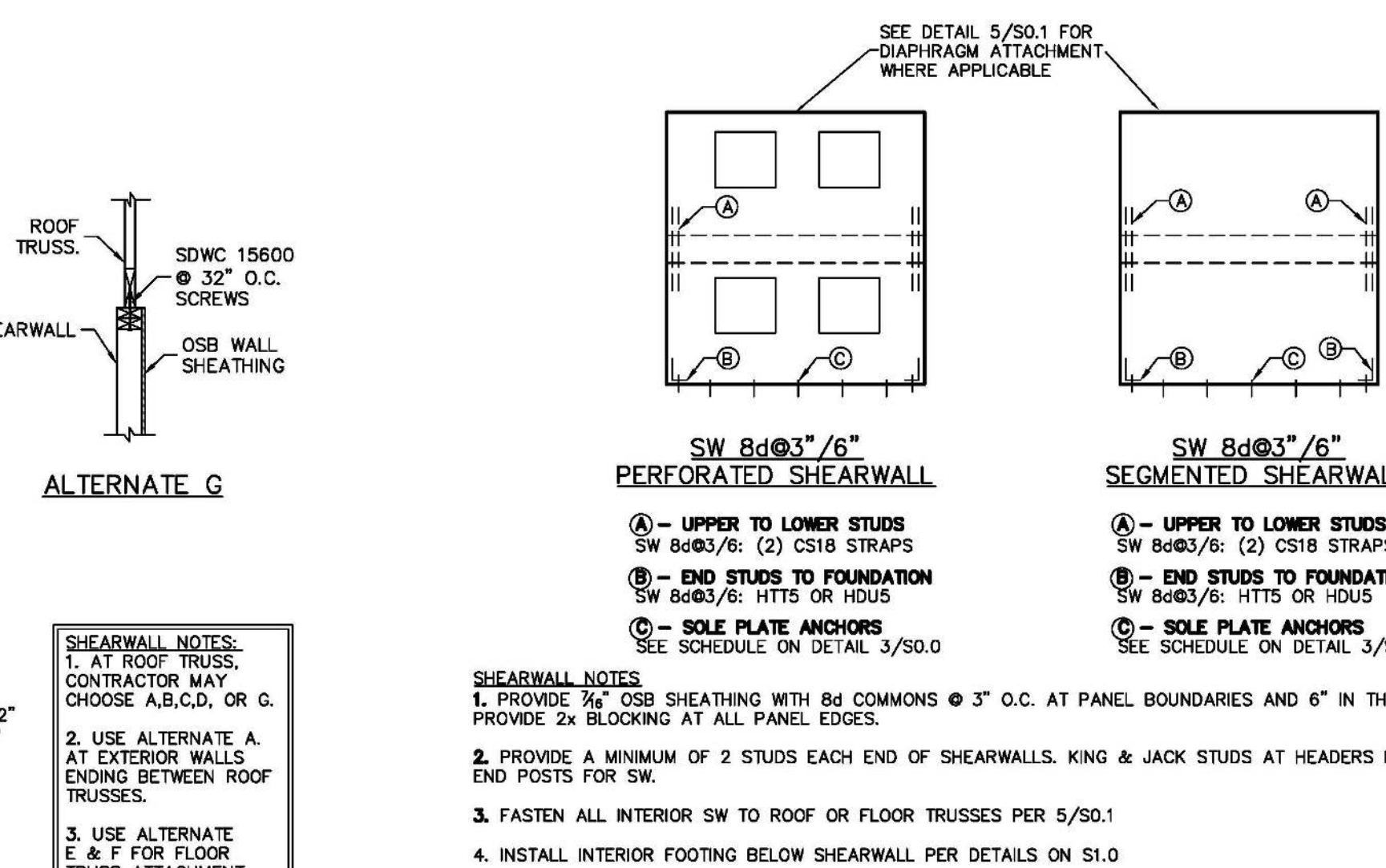
3
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TYPICAL PORCH BEAM CONNECTION
SCALE: N.T.S.



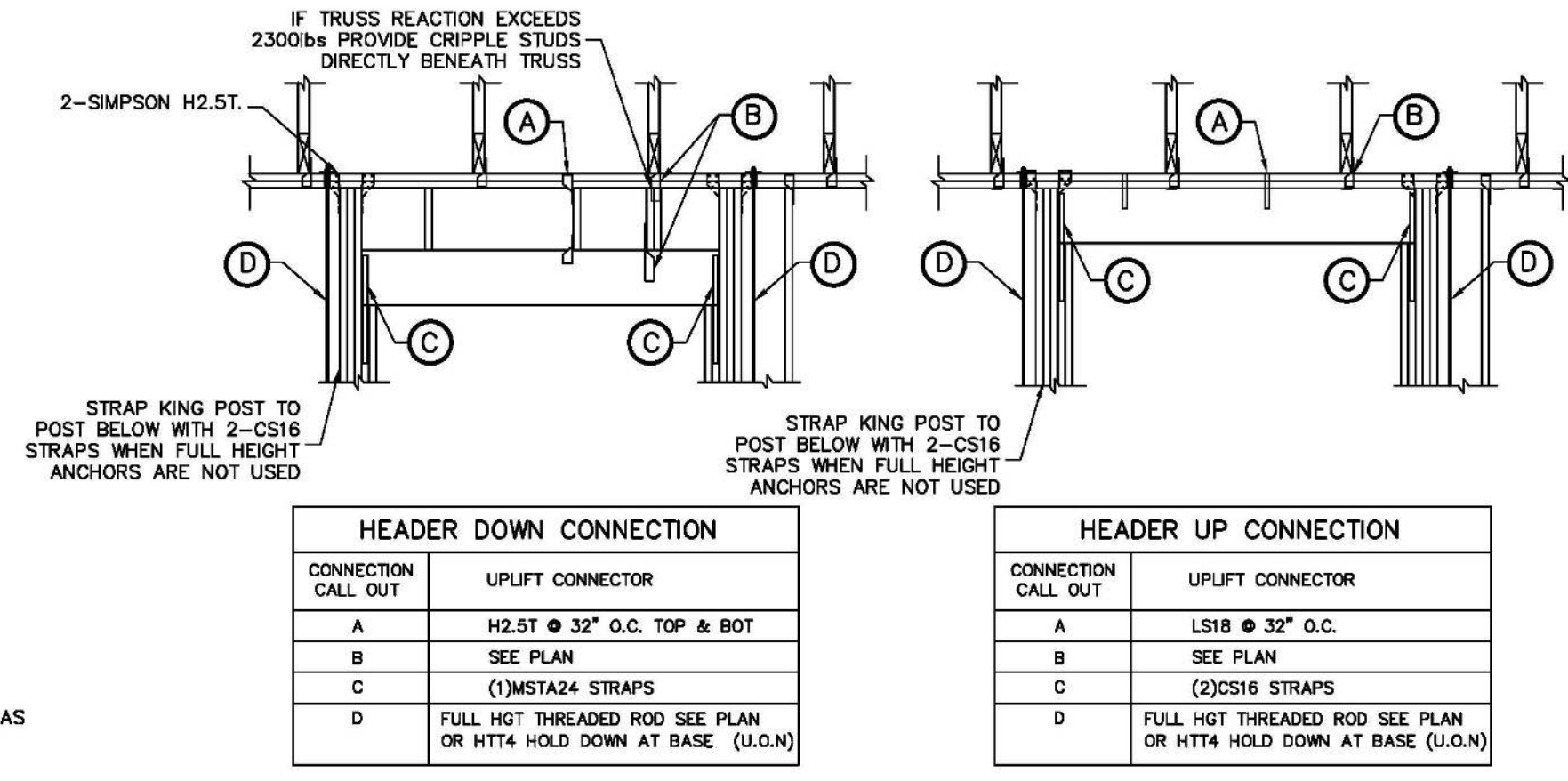
4
S0.1
WALL ADJ. TO ROOF CONNECTION
SCALE: N.T.S.



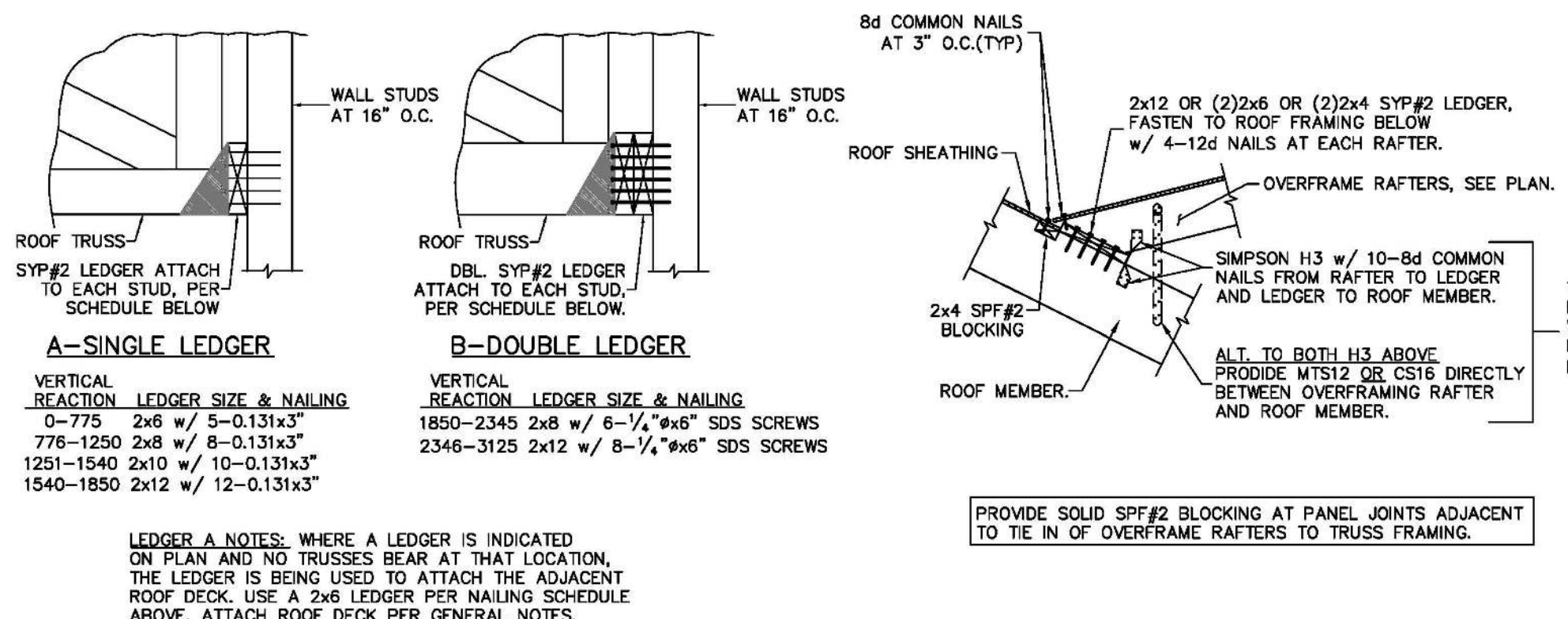
5
S0.1
SHEARWALL ATTACHMENT AT ROOF & FLOOR
SCALE: N.T.S.



6
S0.1
TYPICAL SHEARWALL ELEVATION
SCALE: N.T.S.

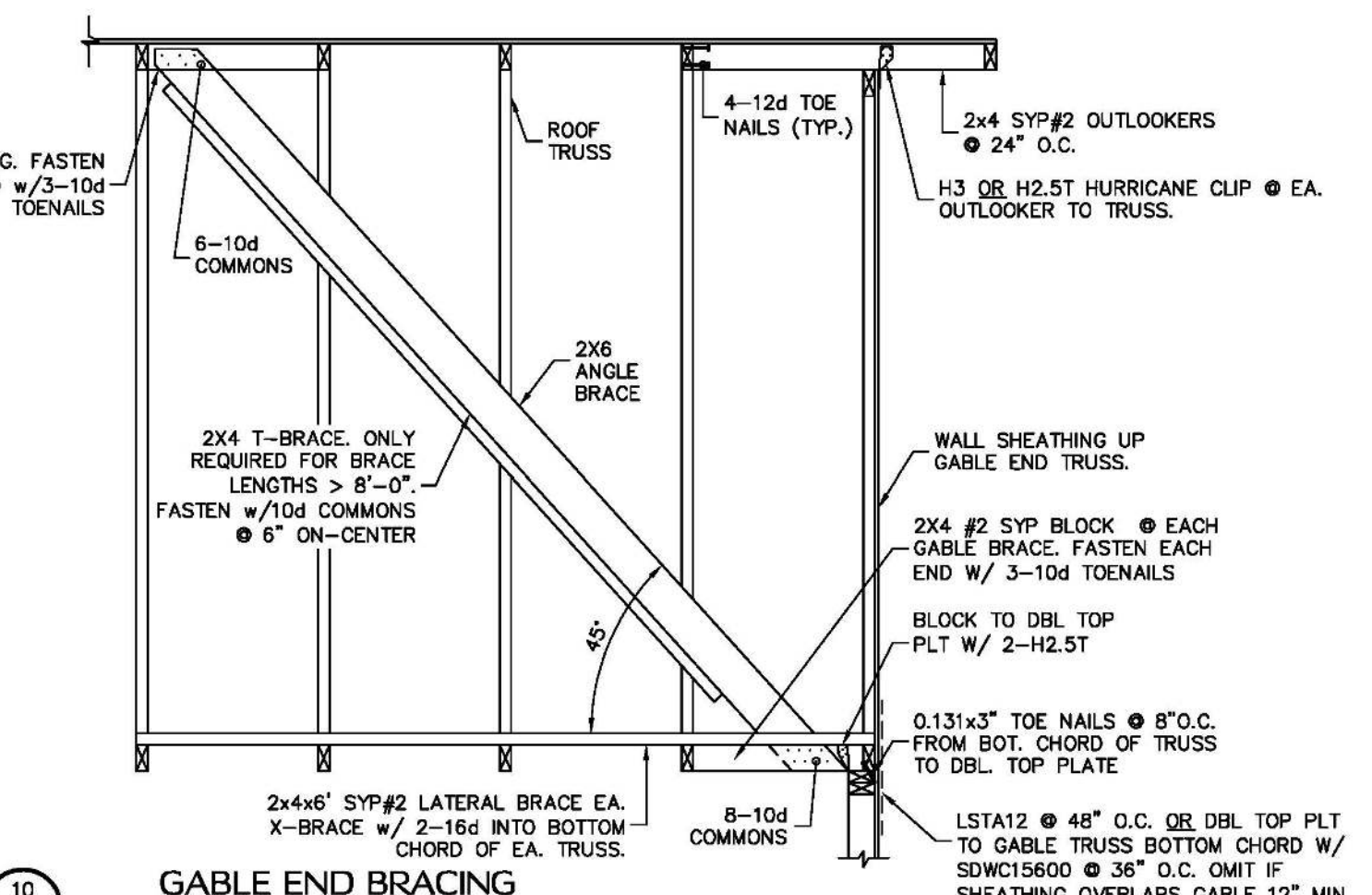


7
S0.1
HEADER TIE DOWN
SCALE: N.T.S.

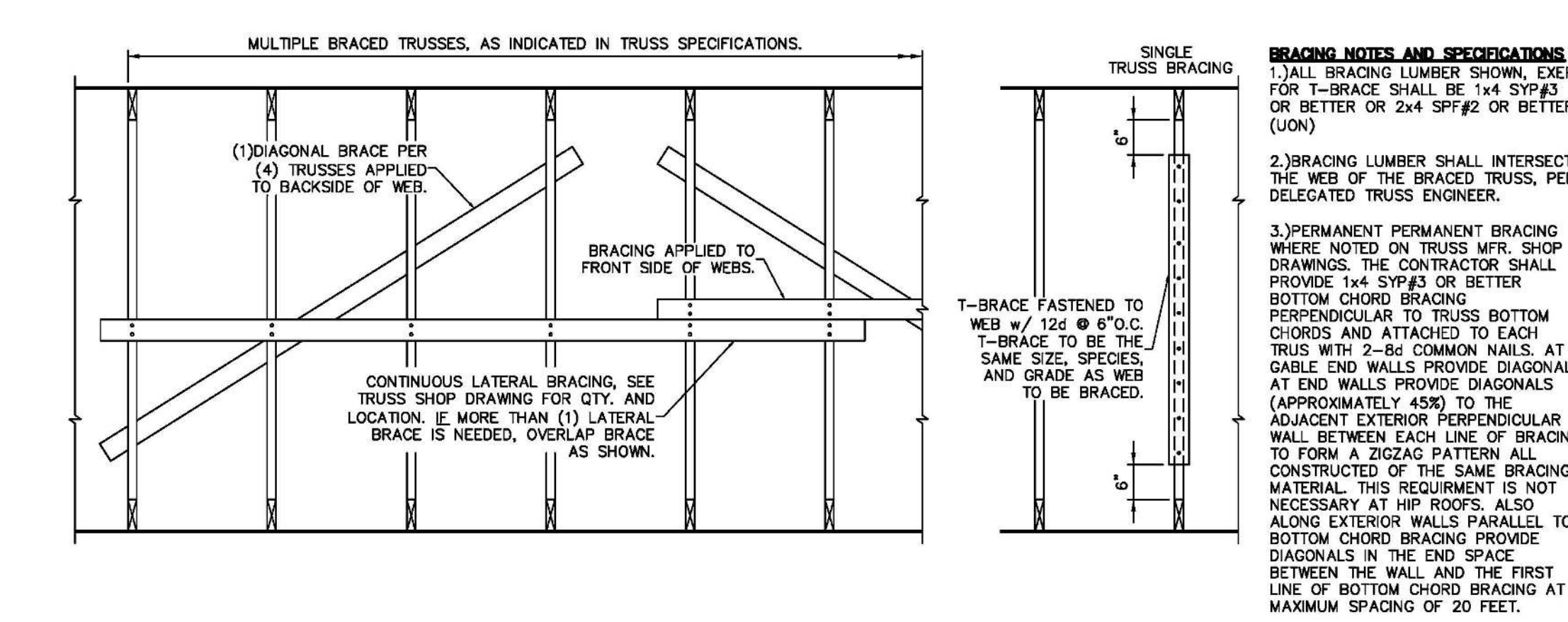


8
S0.1
LEDGER CONNECTION
SCALE: N.T.S.

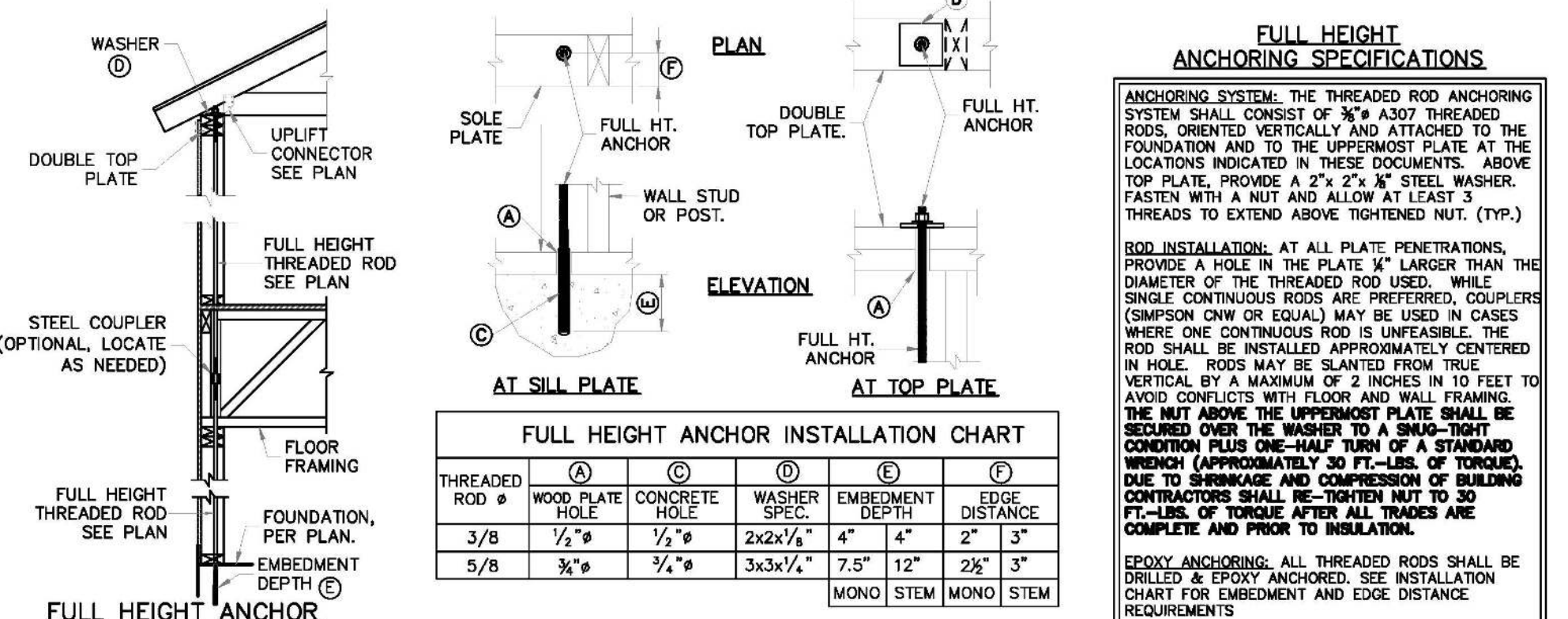
9
S0.1
DECK LEDGER AT OVERFRAME RAFTERS
SCALE: N.T.S.



10
S0.1
GABLE END BRACING
SCALE: N.T.S.



11
S0.1
PERMANENT TRUSS BRACING
SCALE: 3/4" = 1'-0"

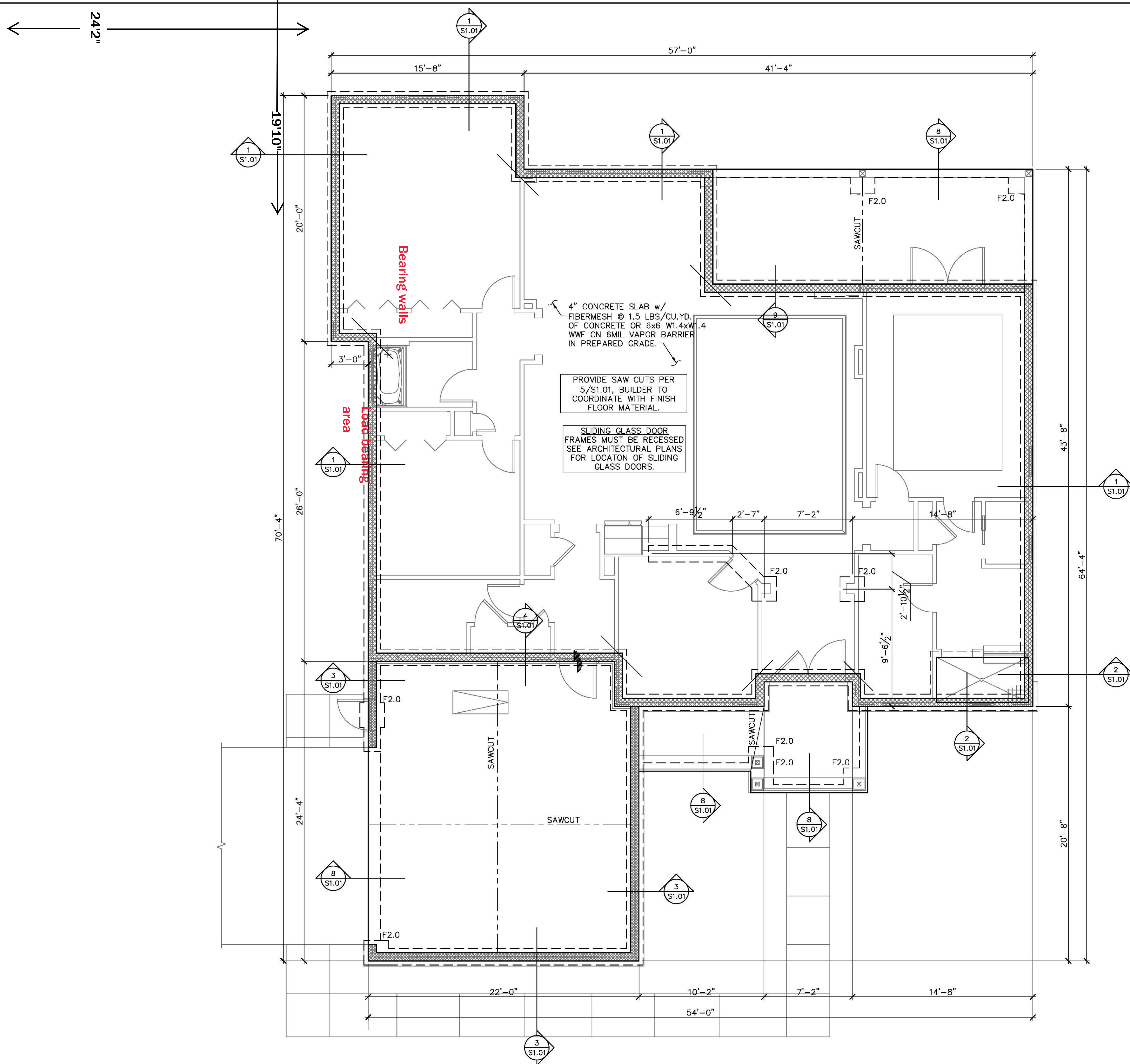


12
S0.1
FULL HEIGHT WOOD FRAME WALL ANCHORING SYSTEM
SCALE: N.T.S.

13
S0.1
3/8" FULL HEIGHT ROD ALTERNATE ATTACHMENT
SCALE: N.T.S.

14
S0.1
FULL HEIGHT THREADED ROD ALTERNATE
SCALE: N.T.S.

15
S0.1
HOLD DOWN ATTACHMENT DETAIL
SCALE: N.T.S.



SYMBOLS LEGEND	
---	DESIGNATES FOOTING LINE
---	DESIGNATES SAWCUT LINE
///	INTERIOR LOAD BEARING WALL
▨	DESIGNATES SLAB RECESS



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STRUCTURAL ENGINEERING FOR GARBER RESIDENCE

FIELD ALTERATION
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MODIFICATIONS WHICH MAY VARY
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SABOURIN MAY RESULT IN ADDITIONAL
ENGINEERING OR INSPECTION FEES.

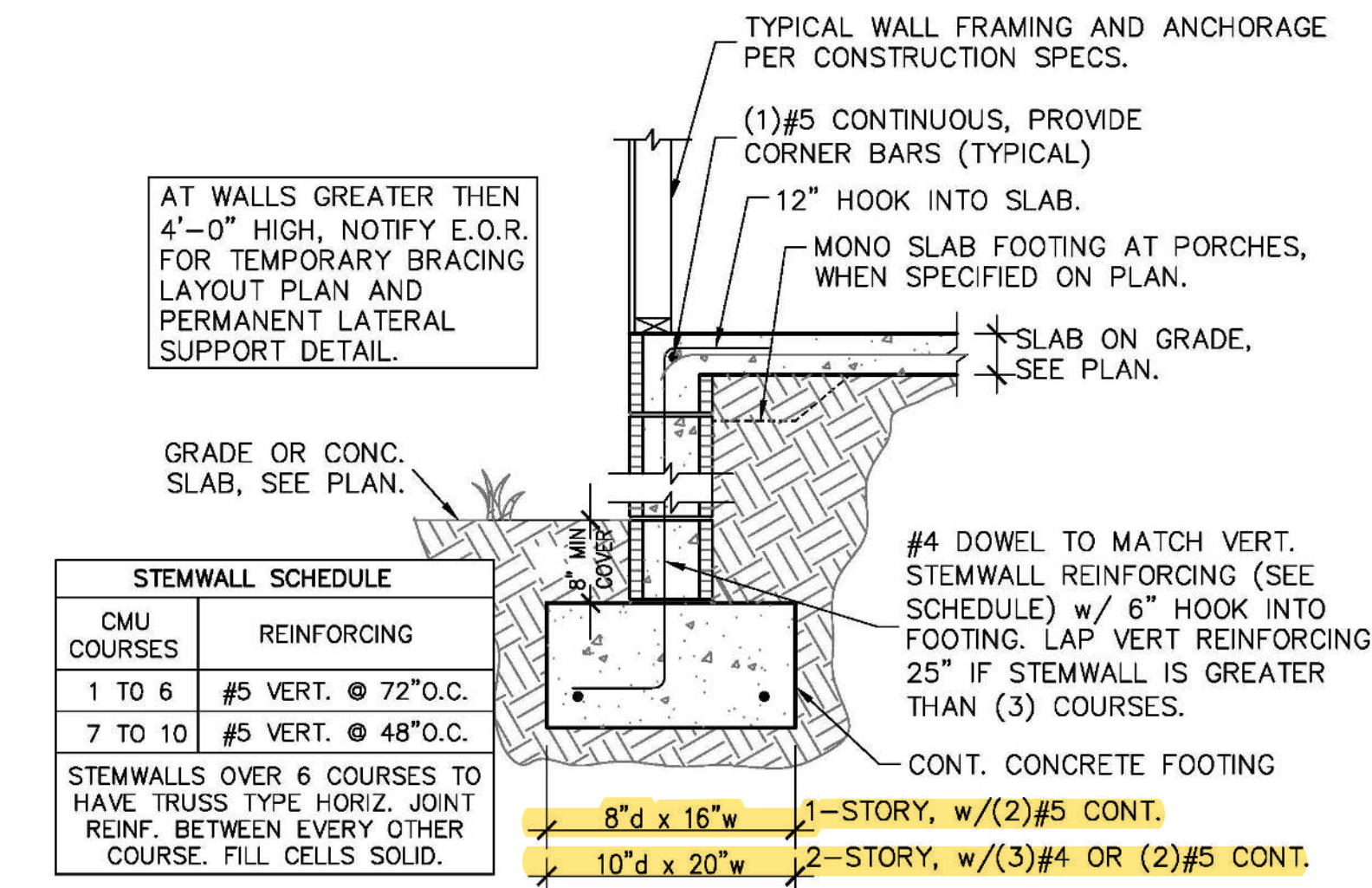
SCALING
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CONTACT THE E.O.B.

FOUNDATION PLAN

SHEET
S1.0
SHEET 3 OF 7

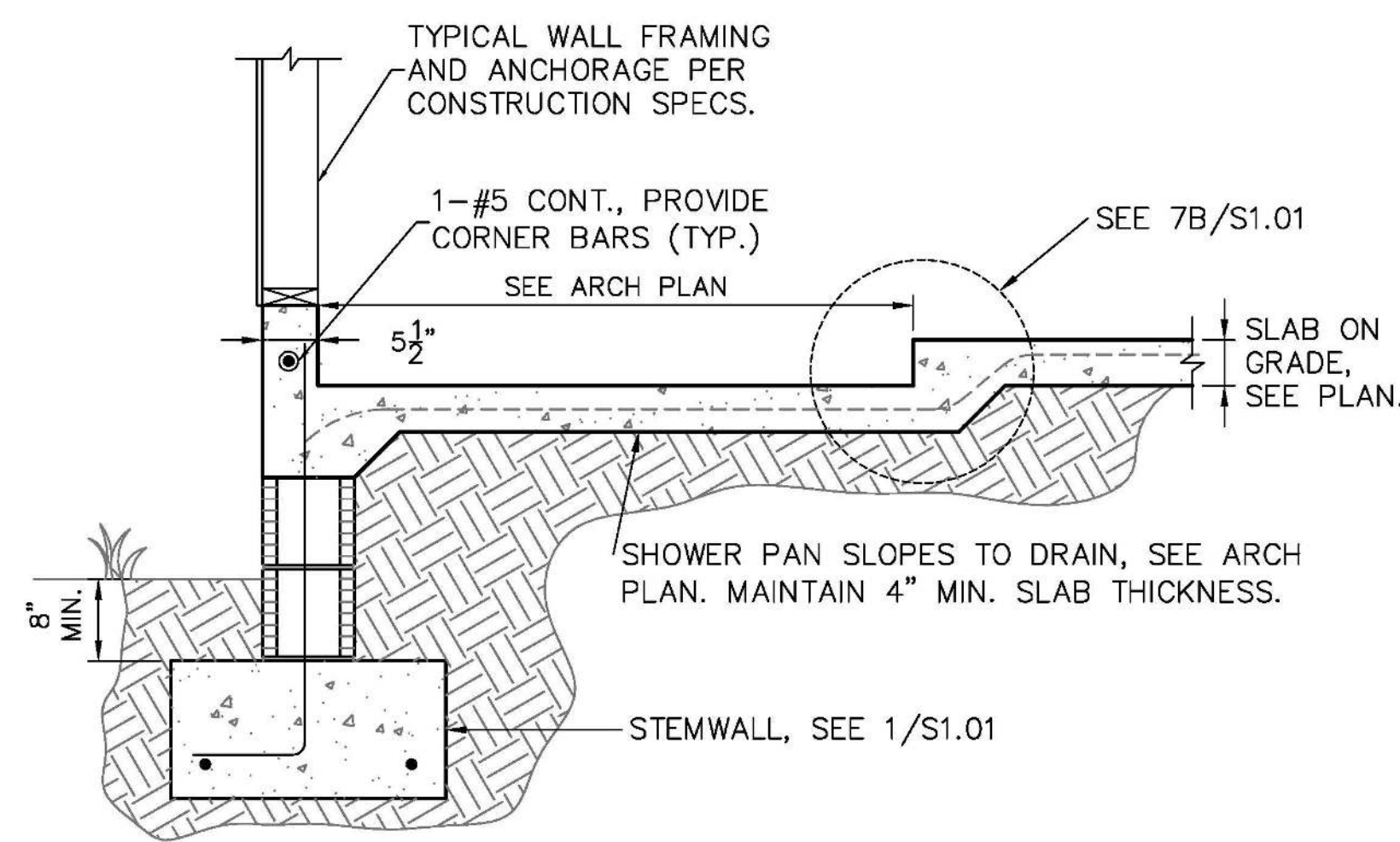
FOOTING SCHEDULE AND NOTES				
TYPE	LENGTH	WIDTH	DEPTH	BOTTOM BARS
F2.0	2'-0"	2'-0"	1'-0"	3-#5 EA. WAY BOT.
F2.5	2'-6"	2'-6"	1'-0"	3-#5 EA. WAY BOT.
F3.0	3'-0"	3'-0"	1'-0"	3-#5 EA. WAY BOT.
F3.5	3'-6"	3'-6"	1'-0"	4-#5 EA. WAY BOT.
F4.0	4'-0"	4'-0"	1'-0"	4-#5 EA. WAY BOT.
F4.5	4'-6"	4'-6"	1'-0"	4-#5 EA. WAY BOT.
1. THIS FOUNDATION PLAN ONLY CONVEYS STRUCTURAL INFO. RELATED TO THE FOUNDATION. FOR GENERAL FEATURES, DIMENSIONS, CONDUITS, ELECTRICAL EMBEDS, STEP HEIGHTS, ECT., SEE ARCH. PLAN. ARCHITECTURAL PLAN SHOWN HERE IN FOR REFERENCE ONLY.				
2. FTOS. & FND. SHALL BE IN ACCORDANCE w/ LOCAL BUILDING CODES.				
3. SOIL COMPACTION AND FILL SHALL BE COMPACTED TO A MIN. OF 95% MODIFIED PROCTOR IN ACCORDANCE WITH ASTM D 1557.				

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



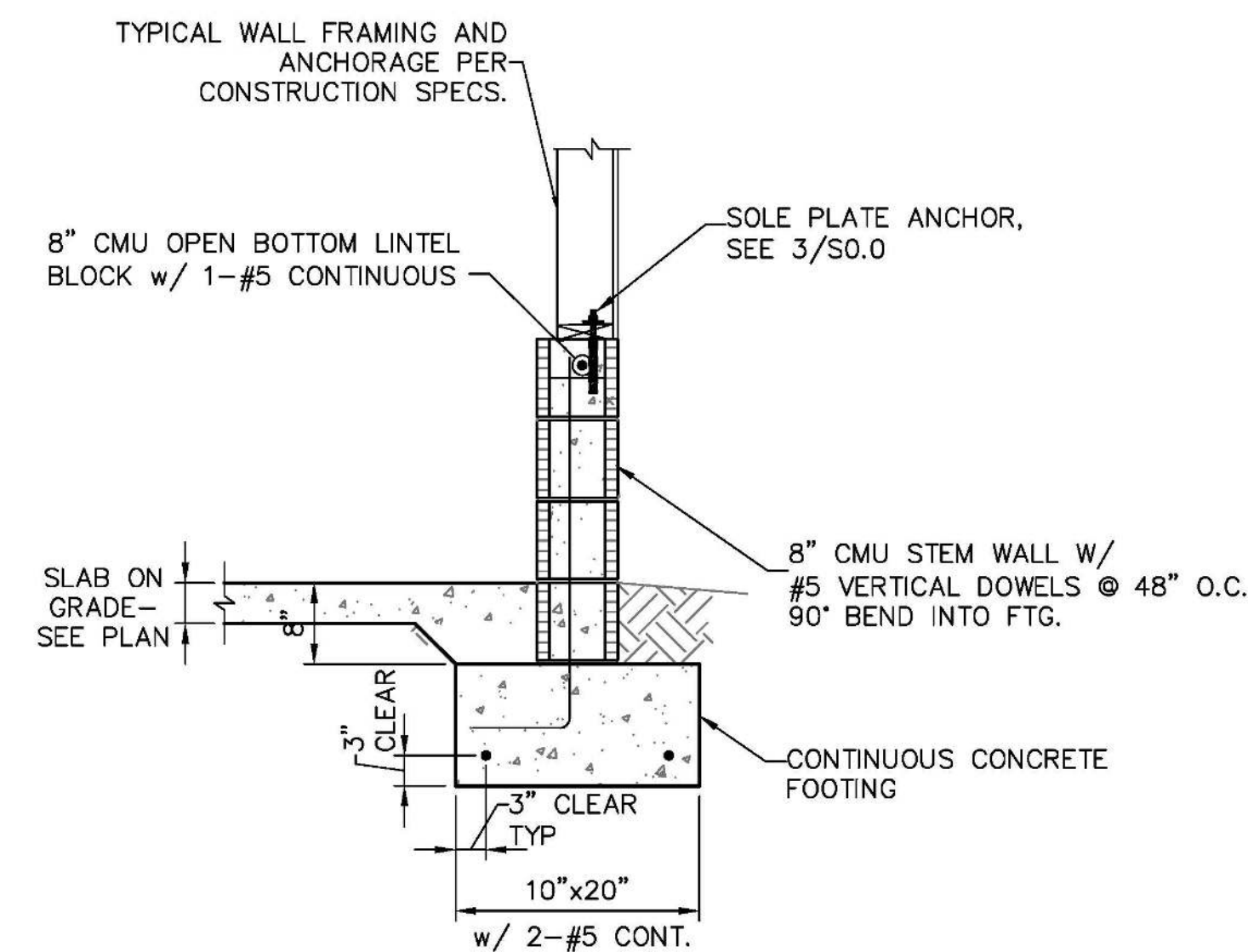
1 STEMWALL FOOTING

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



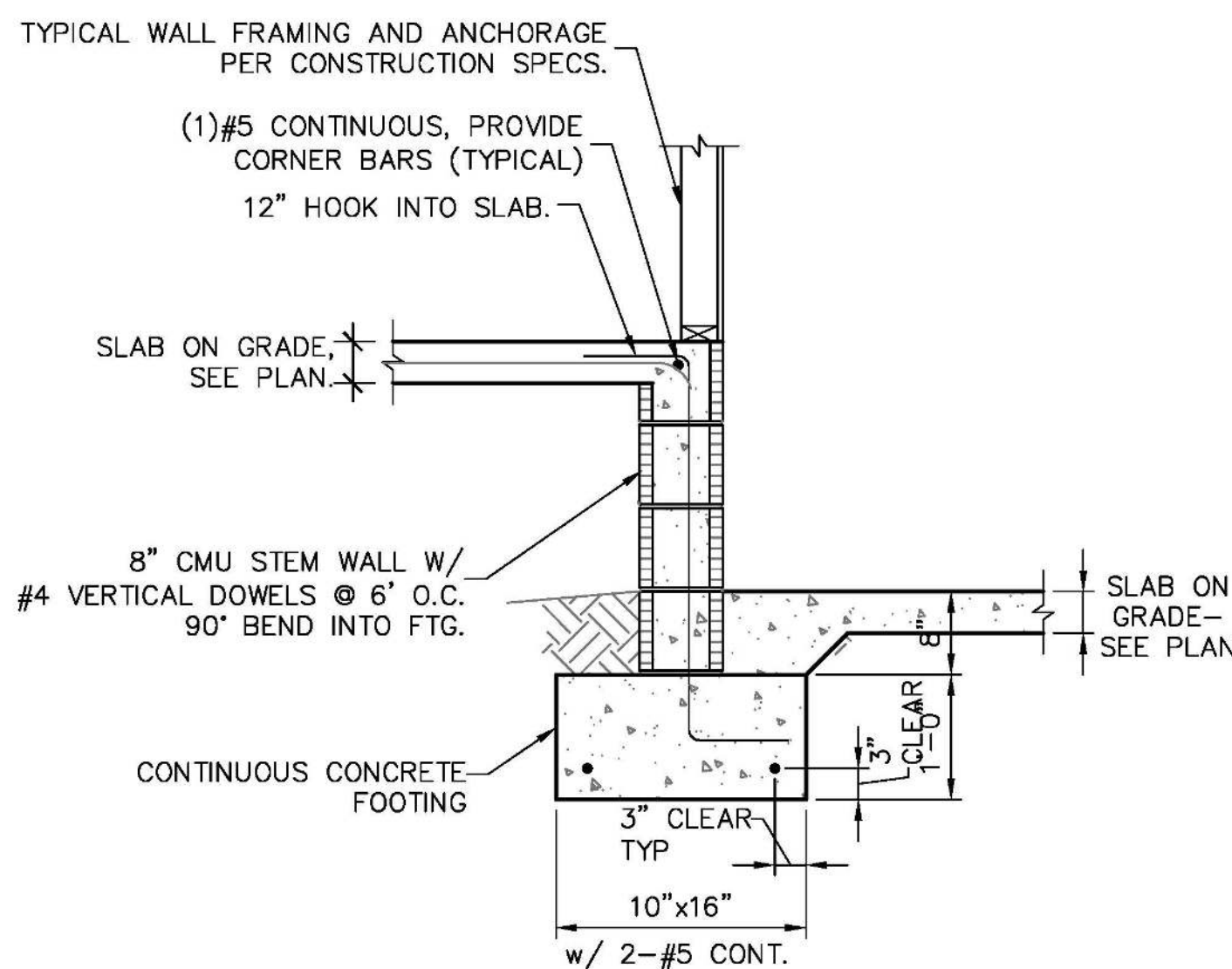
2 FOOTING W/ SHOWER RECESS

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



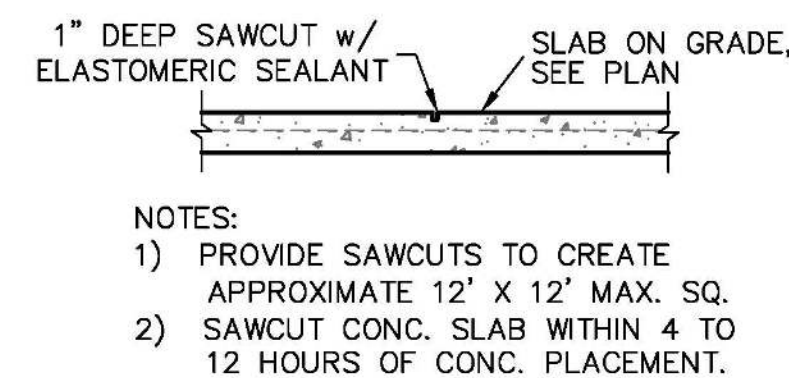
3 GARAGE STEM WALL

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



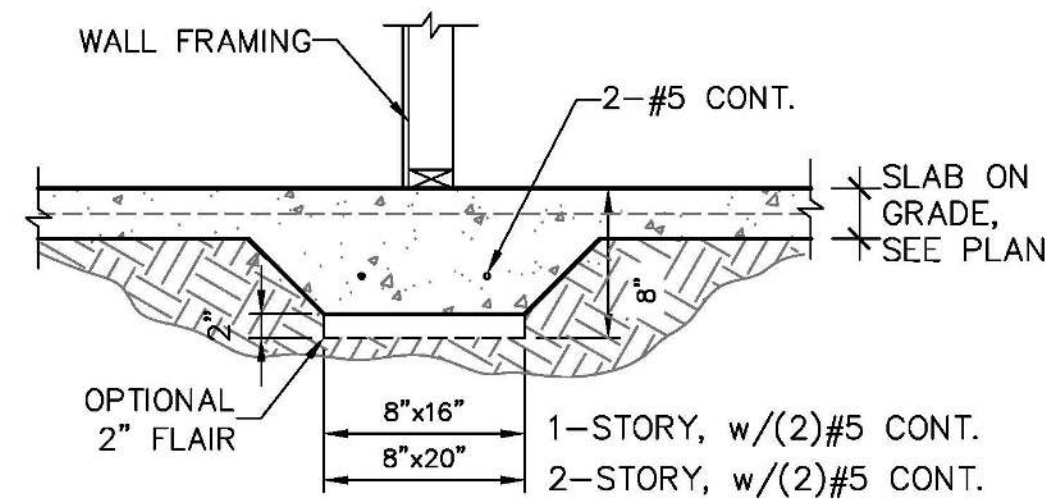
4 STEMWALL AT GARAGE

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



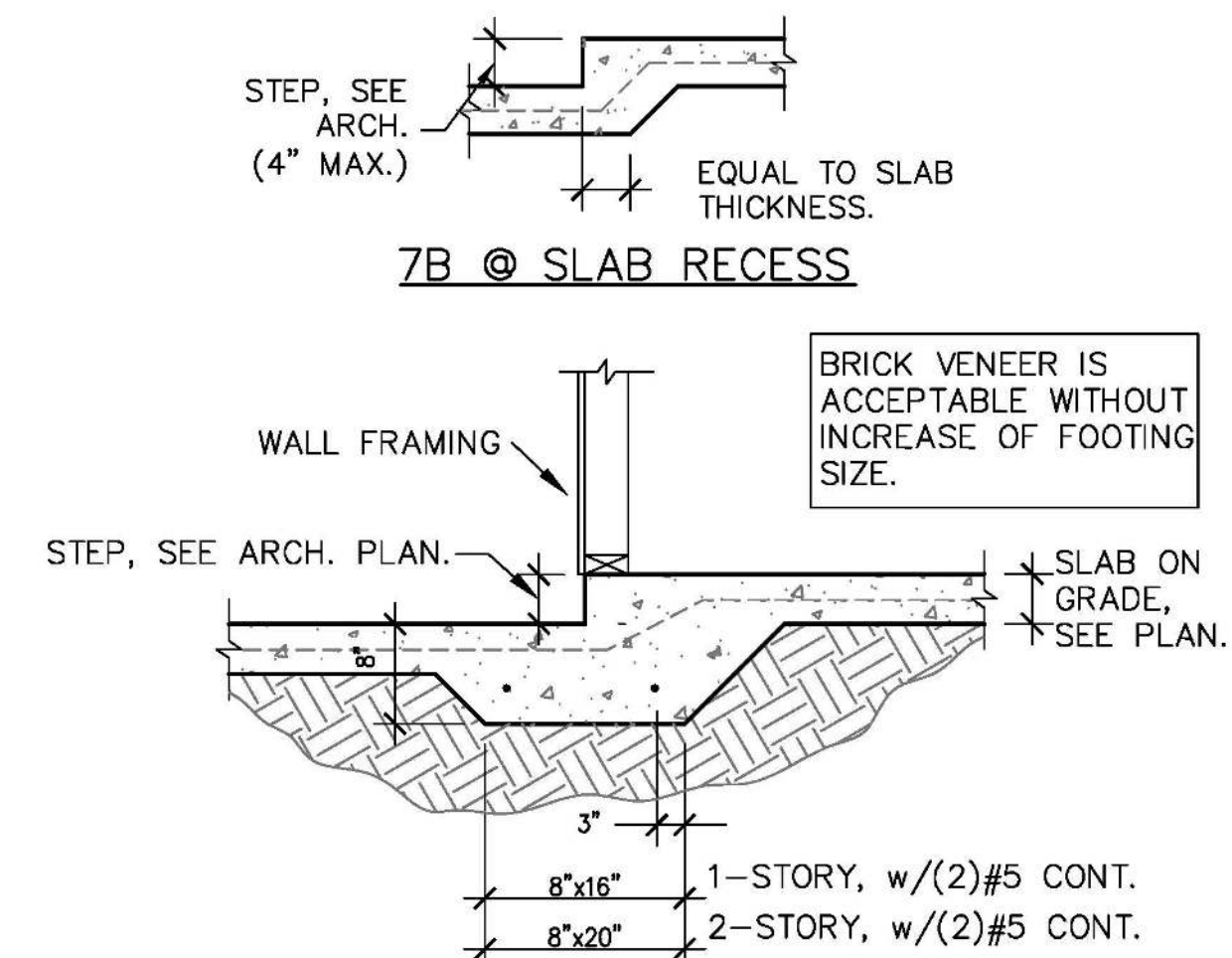
5 SAW CUT DETAIL

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



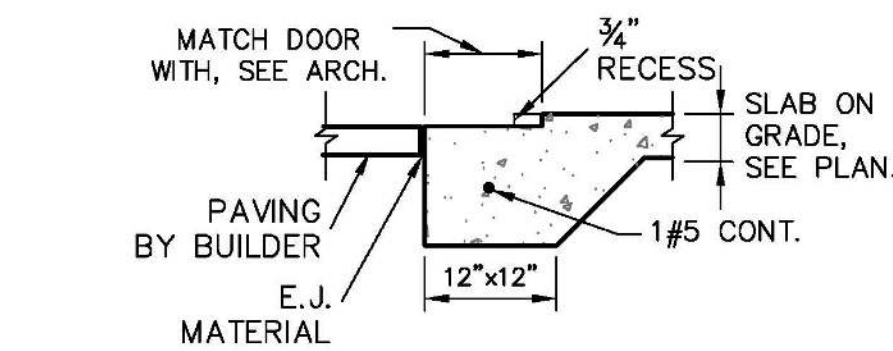
6 BEARING AT INTERIOR

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

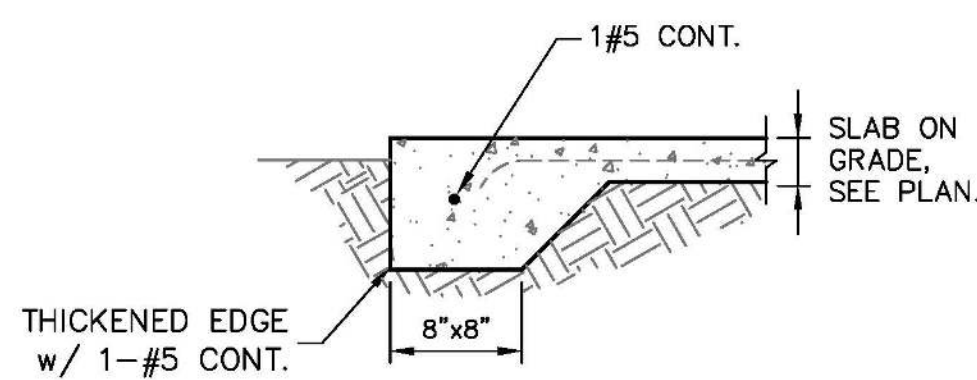


7 MONO. FOOTING AT STEP-DOWN

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



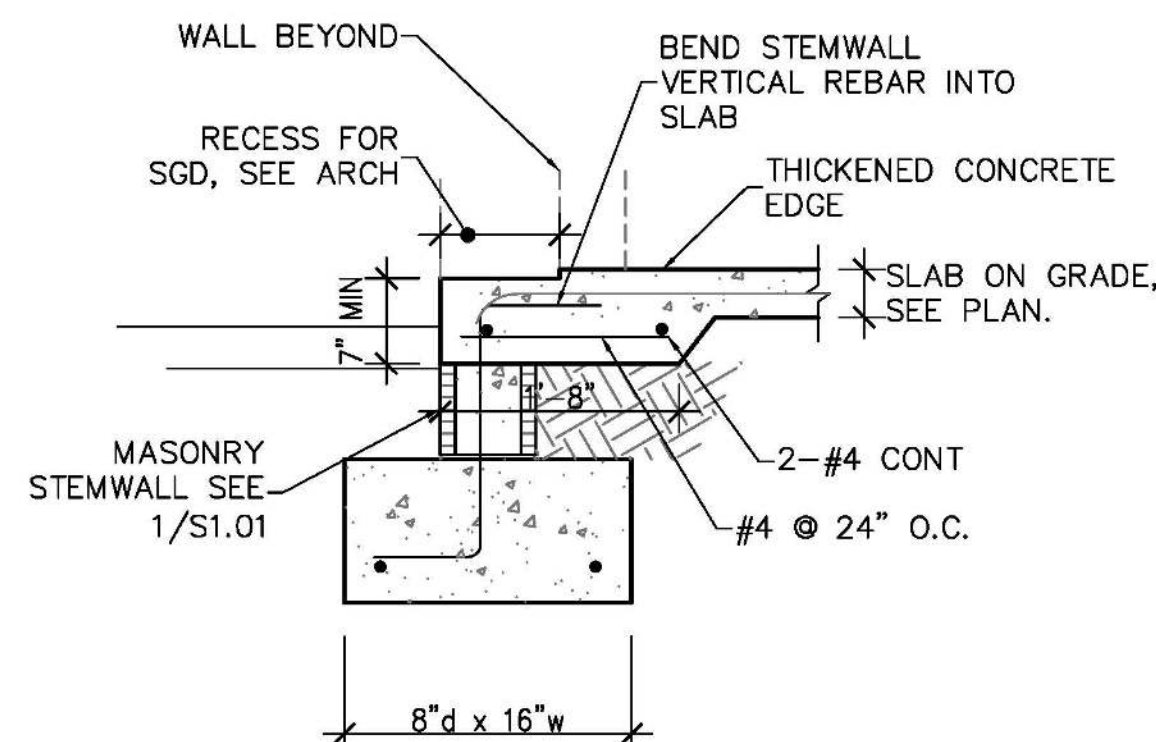
AT GARAGES



AT PORCHES

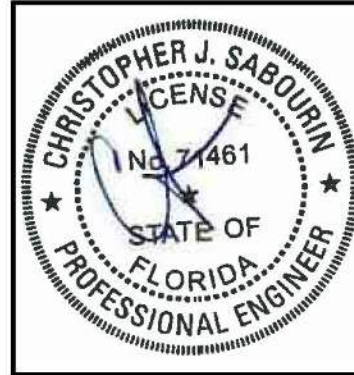
8 THICKENED SLAB

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



9 STEMWALL FOOTING AT SLIDER

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



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STRUCTURAL ENGINEERING
FOR GARBER RESIDENCE

FIELD ALTERATION
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SCALING
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FOUNDATION
DETAILS

SHEET
S1.01
SHEET 4 OF 7

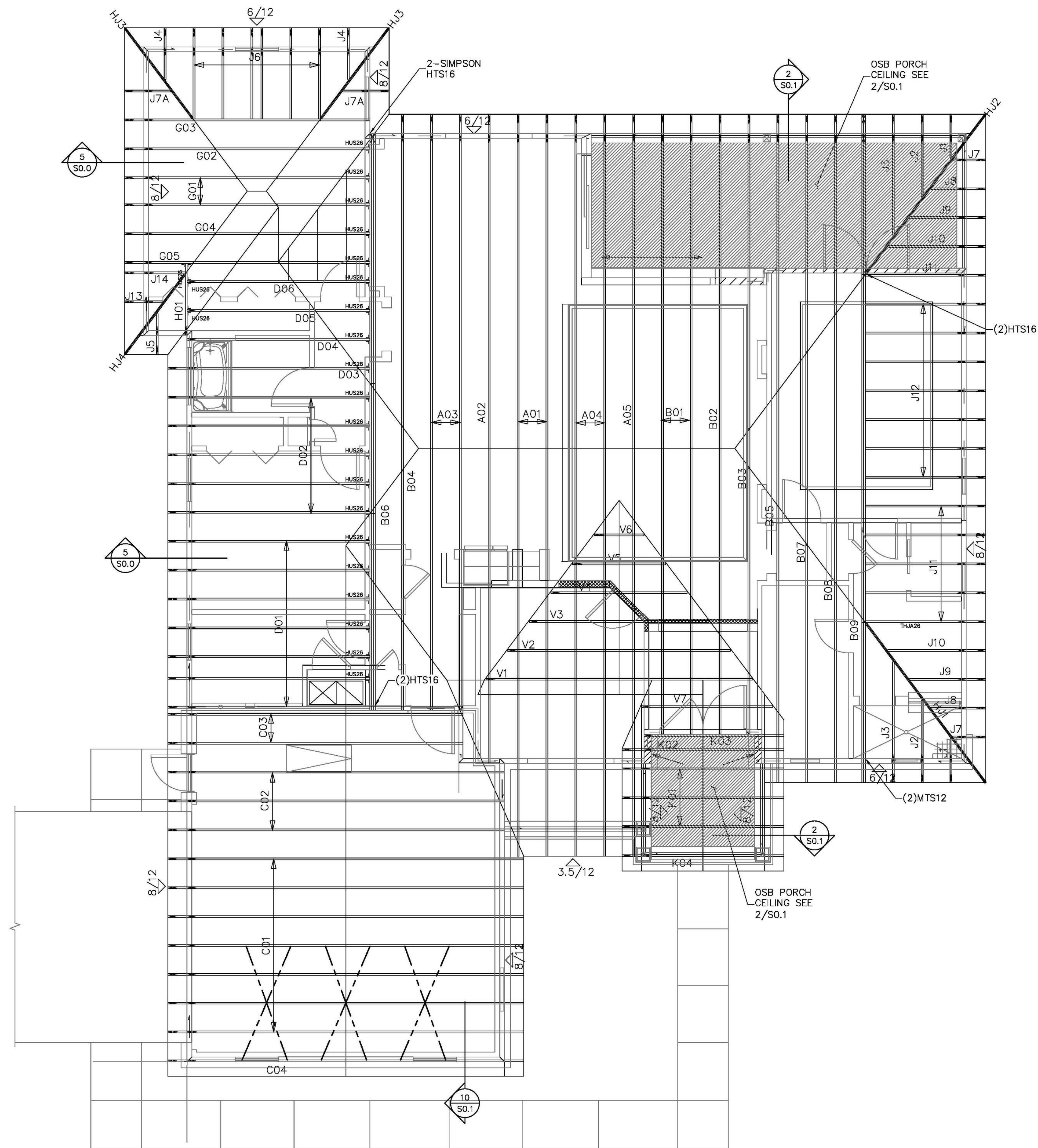




STRUCTURAL ENGINEERING FOR GARBER RESIDENCE

FIRST FLOOR
FRAMING
PLAN

SHEET
S1.1
SHEET 5 OF 7



ROOF TRUSS PLACEMENT PLAN

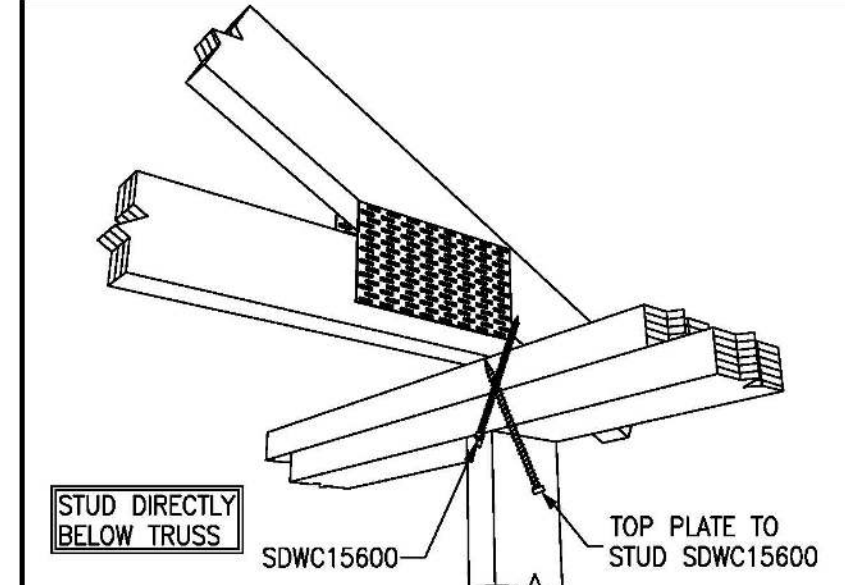
SYMBOLS LEGEND

HTS16	DESIGNATES UPLIFT CONNECTION.
-------	-------------------------------

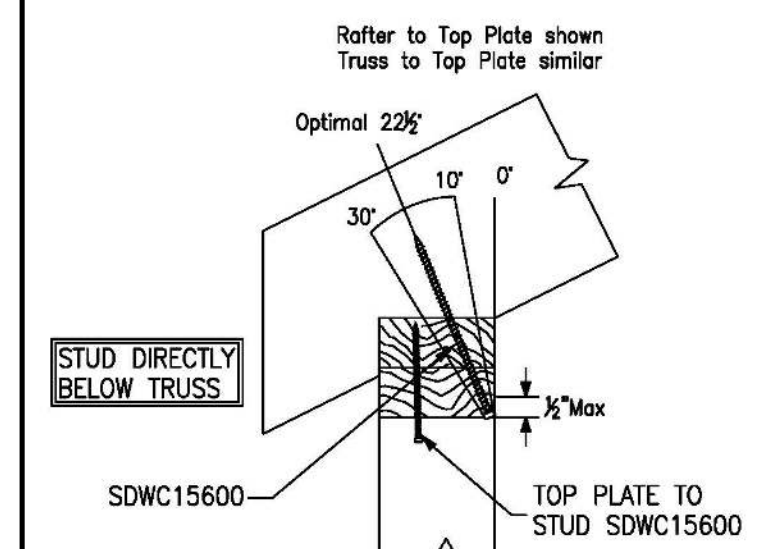
FRAMING PLAN NOTES:
1. FOR TYPICAL ROOM

- FRAMING PLAN NOTES:**
1. FOR TYPICAL ROOF SHEATHING AND FRAMING, SEE SHEET S.O.O.
 2. FOR SPECIFIC UPLIFT CONNECTORS, SEE PLAN. MIN. (1)SDWC CONNECTOR.
 3. FOR GENERAL DESIGN SPECIFICATIONS SEE SHEET S.O.O.
 4. WHEN USING (2)H25T CLIPS ON 1½" WIDE LUMBER, PLACE CLIPS DIAGONALLY ACROSS DOUBLE TOP PLATE FROM EACH OTHER.

TRUSS FASTENING DETAILS

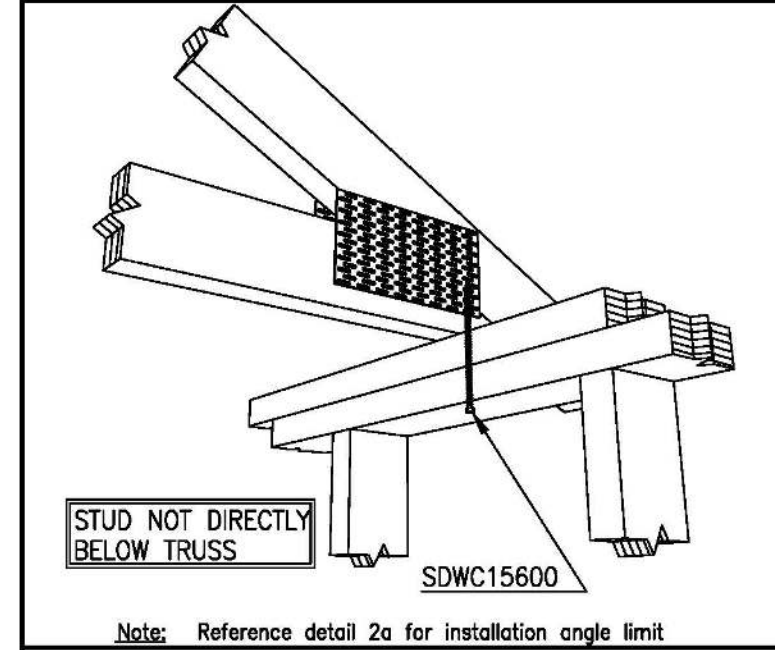


TRUSS TIE DOWN WITH SIMPSON SDWC

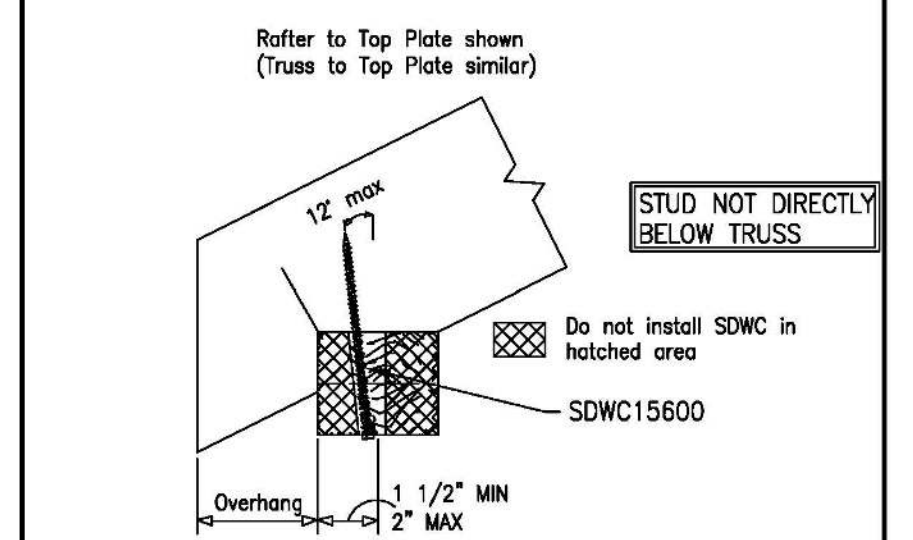


Note: 1. Sloped-roof rafters may be sloped up to and including a 12:12 pitch and must be "birdsmouth" cut.
2. Reference detail 4 for installation instructions.

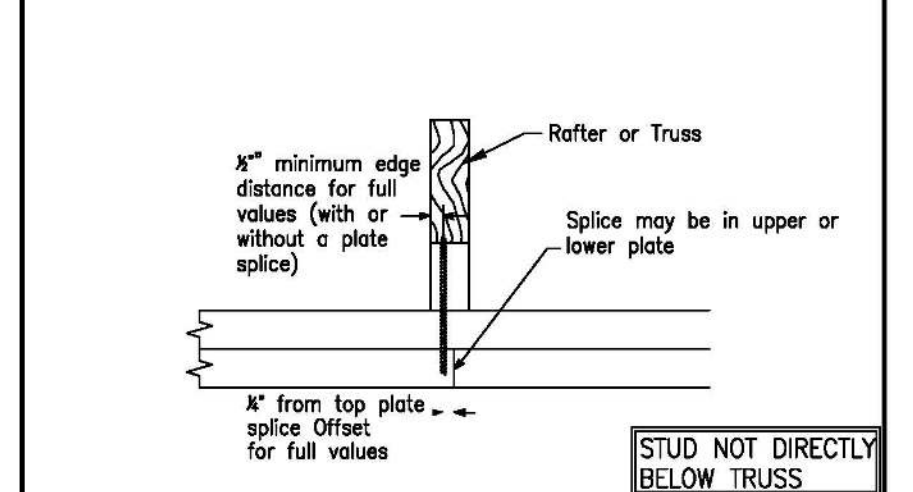
SIMPSON SDWC INSTALLATION RANGE



SDWC INSTALLATION



SDWC INSTALLATION RANGE



SDWC AT TOP PLATE SPLICE



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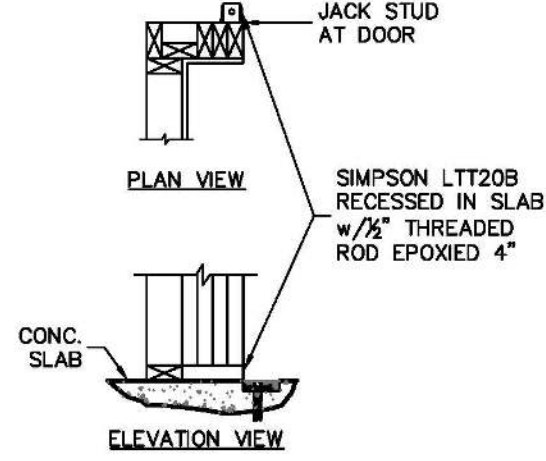
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ROOF TRUSS PLACEMENT PLAN

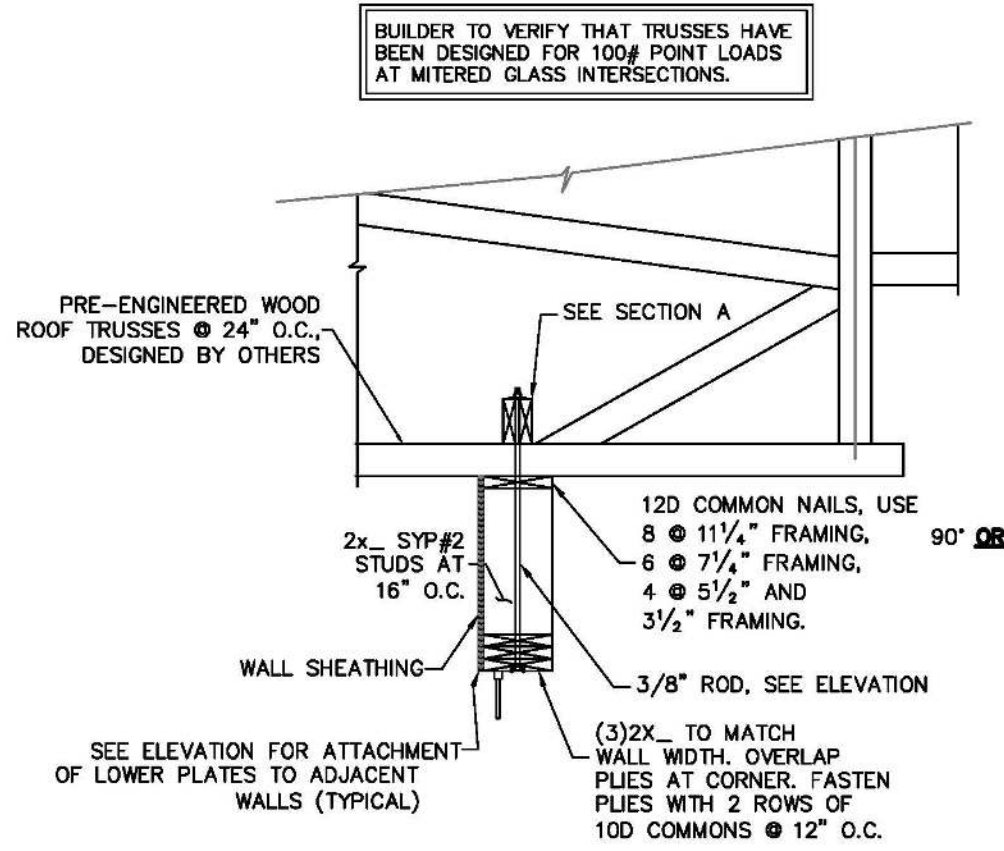
SHEET

51.2

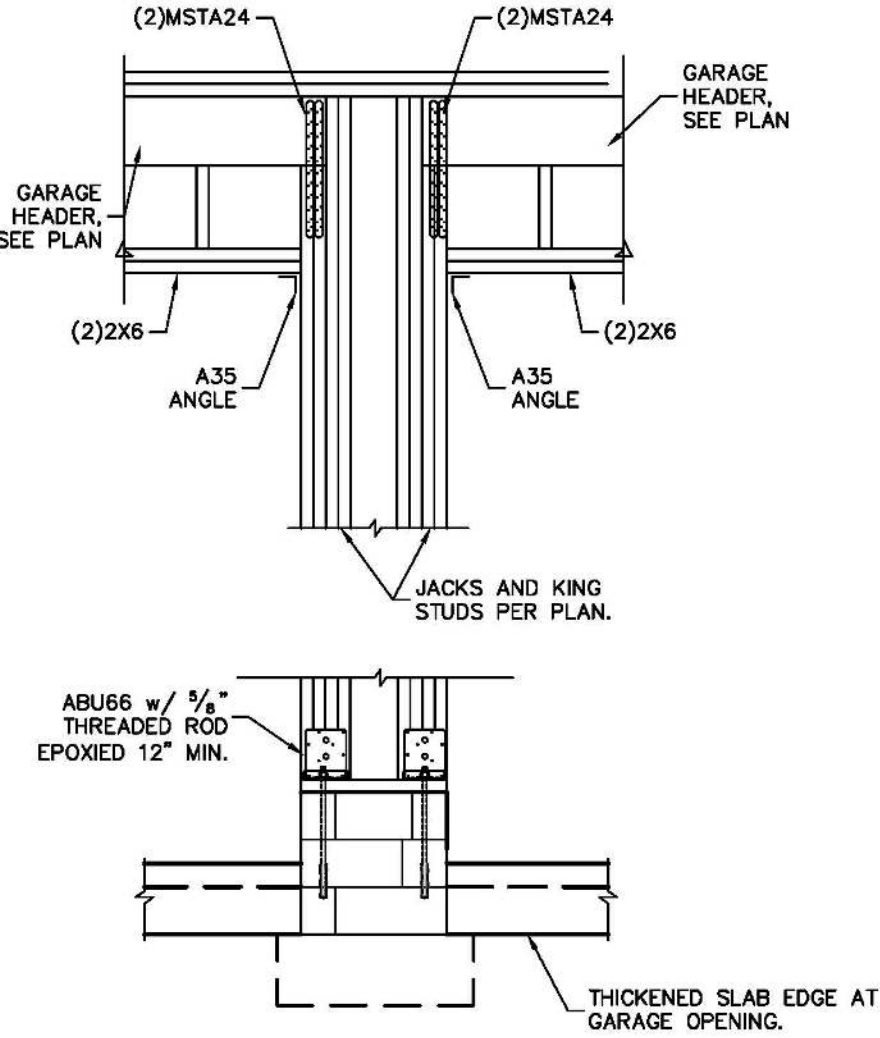
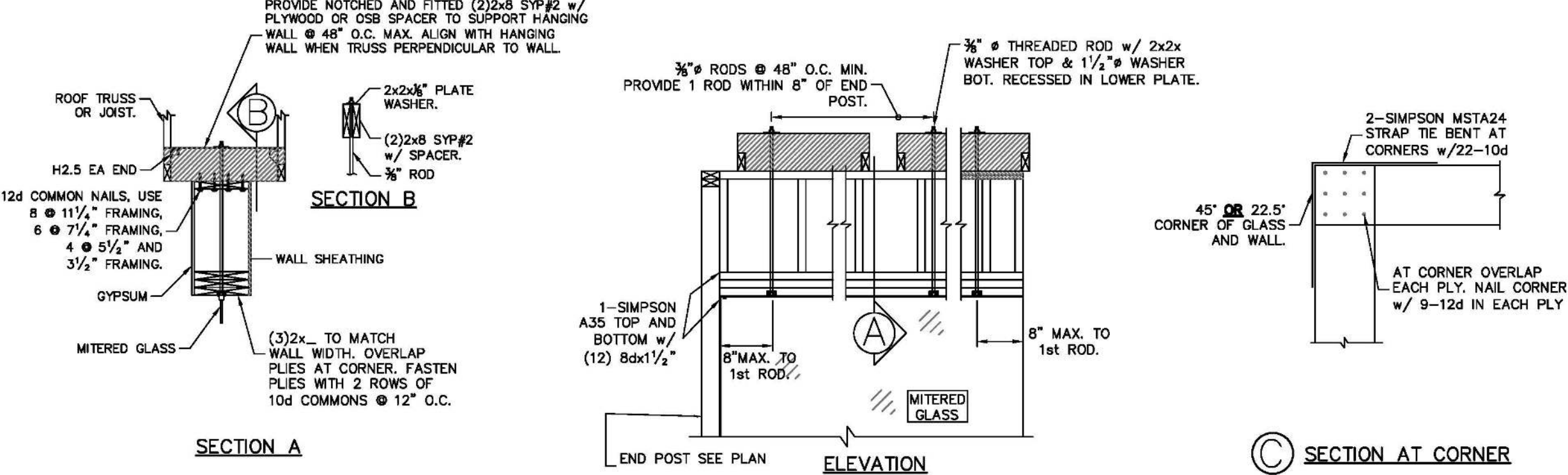
SHEET 6 OF 7



1 DOOR JAMB FASTENING
THIS DETAIL ONLY APPLIES WHEN NOTED ON PLAN



2 MITERED WINDOW HEAD FRAMING
SCALE: N.T.S.



3 GARAGE CENTER WALL FRAMING
SCALE: 3/4" = 1'-0"



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MISC
DETAILS