

| DESIGN SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                       |                                                                                      |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| DESIGN CODE:<br>2020 FLORIDA BUILDING CODE – RESIDENTIAL                                                                                                                                                                                                                                                                                                    |                                                                                      |                                                                     |
| DESIGN LOADS: ACTUAL AND UNIFORM                                                                                                                                                                                                                                                                                                                            |                                                                                      |                                                                     |
| ROOF LOADING:<br>(psf=125)<br>TOP CHORD LIVE LOAD<br>TOP CHORD DEAD LOAD<br>TOP CHORD DEAD LOAD<br>BOTTOM CHORD LIVE LOAD<br>BOTTOM CHORD DEAD LOAD                                                                                                                                                                                                         | ROOF<br>20 psf<br>7 psf (ARCH SHINGLES)<br>20 psf (TILE SHINGLES)<br>10 psf<br>5 psf | FLOOR<br>(psf=100)<br>40 psf<br>10 psf<br>10 psf<br>10 psf<br>5 psf |
| WIND LOADING:<br>ASCE 7/16 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 7-16) 130mph<br>IMPORTANCE FACTOR 1.00<br>MEAN ROOF HEIGHT 2.00 FT<br>ROOF PITCH 7/12<br>BUILDING CATEGORY II<br>EXPOSURE CATEGORY C<br>ENCLOSURE CLASSIFICATION C<br>INTERNAL PRESSURE COEFFICIENT ± .18                                                                                                                            |                                                                                      |                                                                     |

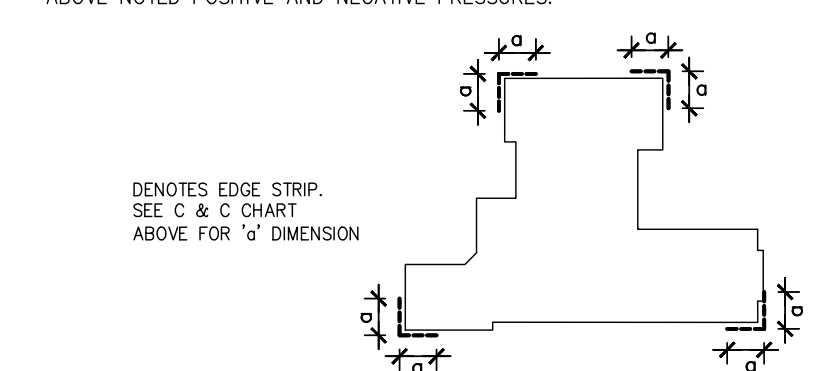
## MATERIAL SPECIFICATIONS

**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.  
REINFORCING STEEL: SHALL BE IN ACCORDANCE WITH ASTM A 615, GRADE 60.  
STRUCTURAL STEEL: SHALL BE IN ACCORDANCE WITH ASTM A 500, GRADE 50.  
WELDED WIRE FABRIC (WWF): SHALL BE IN ACCORDANCE WITH ASTM A 185.  
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.

**ANCHORING ADHESIVE:** SHALL BE ONE OF THE FOLLOWING PRODUCTS (DUAL CARTRIDGE INSTALLATION ONLY):  
EPOXY: ITW RED HEAD A7  
REINFORCING STEEL: SHALL BE IN ACCORDANCE WITH ASTM A 615, GRADE 60.  
STRUCTURAL STEEL: SHALL BE IN ACCORDANCE WITH ASTM A 500, GRADE 50.  
WELDED WIRE FABRIC (WWF): SHALL BE IN ACCORDANCE WITH ASTM A 185.  
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 |                     |                                 |
|--------------------------------------------------|---------------------|---------------------------------|
| TRIBUTARY AREA (sf)                              | INTERIOR ZONE (PSF) | EDGE STRIP (PSF):<br>a' = 4'-6" |
| 10                                               | +24.61 –26.70       | +24.61 –32.95                   |
| 50                                               | +23.42 –25.51       | +23.42 –30.58                   |
| 100                                              | +22.01 –24.09       | +20.91 –27.74                   |

- 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 THE 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, TRUSS-TO-TRUSS CONNECTION, AND ANY ARCHITECTURAL, MECHANICAL OR ELECTRICAL SYSTEM.

## GENERAL NOTES & CONSTRUCTION SPECIFICATIONS

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

**ROOF SHEATHING SPECIFICATIONS:**  
SHINGLE – MIN. 15/32", 32/16, APA RATED OSB OR PLYWOOD SHEATHING, NAILED w/ 0.131x2" 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/ 0.131x2" 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/ 0.131x2 1/2" 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 3/4" 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 ACI305-01. GROUT SHALL BE IN ACCORDANCE WITH ASTM C476 WITH A MINIMUM OF 28 DAY COMPRESSIVE STRENGTH OF 2000 psi PER ASTM C1019. 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 FLASHING.

**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 STEM WALLS:** 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 FEA ROCC 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 CONNECTIONS OF 5 OR MORE COURSES, PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 6" O.C. VERTICALLY, (EVERY OTHER COURSE), AND VERTICAL REINF. SHALL BE INCREASED AS NOTED ON 1/51.0. UNLESS NOTED OTHERWISE, LAP JOINT REINFORCING 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. CONCREAT 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, CONDUITS, 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 GROUND. 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 INTO EACH ELEMENT. SPLICES IN REINFORCING, WHERE PERMITTED, SHALL BE 48 BAR DIAMETERS

**CONCRETE SLABS ON GRADE:**  
SHALL BE INSTALLED OVER MINIMUM 6 MIL POLYETHYLENE VAPOR RETARDER WITH JOINTS LAPPED 6" AND SEALED OVER CLEAN, COMPACTED EARTH OR FILL WITH APPROVED CHEMICAL SOIL TREATMENT FOR PREVENTION OF SUBTERRANEAN TERMITES. SAWCUTS FOR CONTROLLED CRACKING CUT A 1" SAWCUT INTO SLAB IN A 12"x12" 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 PRESSURE-TREATED. IF A ROD OR NON-DOT DURABLE 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 WEIGHT 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 FOR HANDLING, INSTALLING & BRACING METAL PLATE CONNECTED WOOD TRUSSES, HIB-91". AT MULTIPLE STRAP CONNECTIONS, SPREAD STRAPS TO AVOID NAILING CONFLICTS THROUGH TRUSS. 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 SHINGLES 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 E154 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             | FACE NAIL       | (3-16d) 4-GUN NAILS       |
| SOLE PLATE TO JOIST/BLOCKING   | FACE NAIL       | (16d @ 16") GUN NAIL @ 8" |

## BRICK NOTES / LINTEL SCHD

| LINTEL DIMENSION    | MIN. BRG. | MAX. SPAN |
|---------------------|-----------|-----------|
| L3 1/2"x3 1/2"x1/4" | 4"        | 6'-0"     |
| L4x3 1/2"x1/4"      | 6"        | 8'-0"     |
| L5x3 1/2"x1/4"      | 6"        | 10'-0"    |
| L6x3 1/2"x1/4"      | 6"        | 12'-0"    |
| L7x3 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 MORE THAN 8'-0", SHOULD BE LATERALLY SUPPORTED NOT TO EXCEED 6 FT. O.C. w/ 2-1/4"x3" WD. SCREWS INTO PRE-ENGINEERED WOOD TRUSS PROVIDE A 1/2" VERTICAL SLOTTED HOLE FOR SCREW.

3. BRICK VENEER ATTACHMENT: HORIZONTAL TIES @ 24" O.C. VERT. TIES @ 12" O.C. (FOR 110mph WIND-ZONE VERT. TIES @ 16" O.C.). AT ALL OPENINGS SPACE TIES WITHIN 12" OF OPENINGS. PROVIDE 1/4" WEEP HOLES @ 33" O.C. IMMEDIATELY ABOVE FLASHING.

## PLAN LEGEND AND ABBREVIATIONS

|                                                                                                       |                                           |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------|
| INTERIOR LOAD BEARING WALL                                                                            | BUILT-UP POST IN THE WALL                 |
| GABLE 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. | (2)x2x8-1/2                               |
| SW 3/4"                                                                                               | 3" O.C. EDGE & 6" O.C. "IN THE FIELD"     |

ADJ. – ADJACENT  
BM – BEAM  
BOT – BOTTOM  
BRG – BEARING  
CMU – CONCRETE MASONRY UNIT  
DBL – DOUBLE  
DIA. – DIAMETER  
EA – EACH  
EE – EACH END  
COR – CORNER  
EQ – EQUAL  
EXT – EXTERIOR  
FBC – FLORIDA BUILDING CODE  
FDN – FOUNDATION  
FT – FOOT  
F10 – FOOTING  
HORIZ – HORIZONTAL  
VERT – VERTICAL  
LBS – POUNDS

LG – Long  
MANUF. – Manufacture  
MON – Monolithic  
OC – On Center  
OSB – Oriented Strand Board  
PERP – Perpendicular  
PRE-ENG. – Pre-Engineered  
PSF – Pounds per Square Foot  
PSI – Pounds per Square Inch  
PT – PRESSURE TREATED  
QT – Quick Tie  
REIN. – Reinforce  
SF – Square Foot  
SPF – Spruce Pine Fir  
SYP – Southern Yellow Pine  
THRU – Through  
TYP – Typical  
UN – Unless Otherwise Noted  
VERT – Vertical  
WWF – Welded Wire Fabric

## SECTION VIEW OF BRICK LINTEL

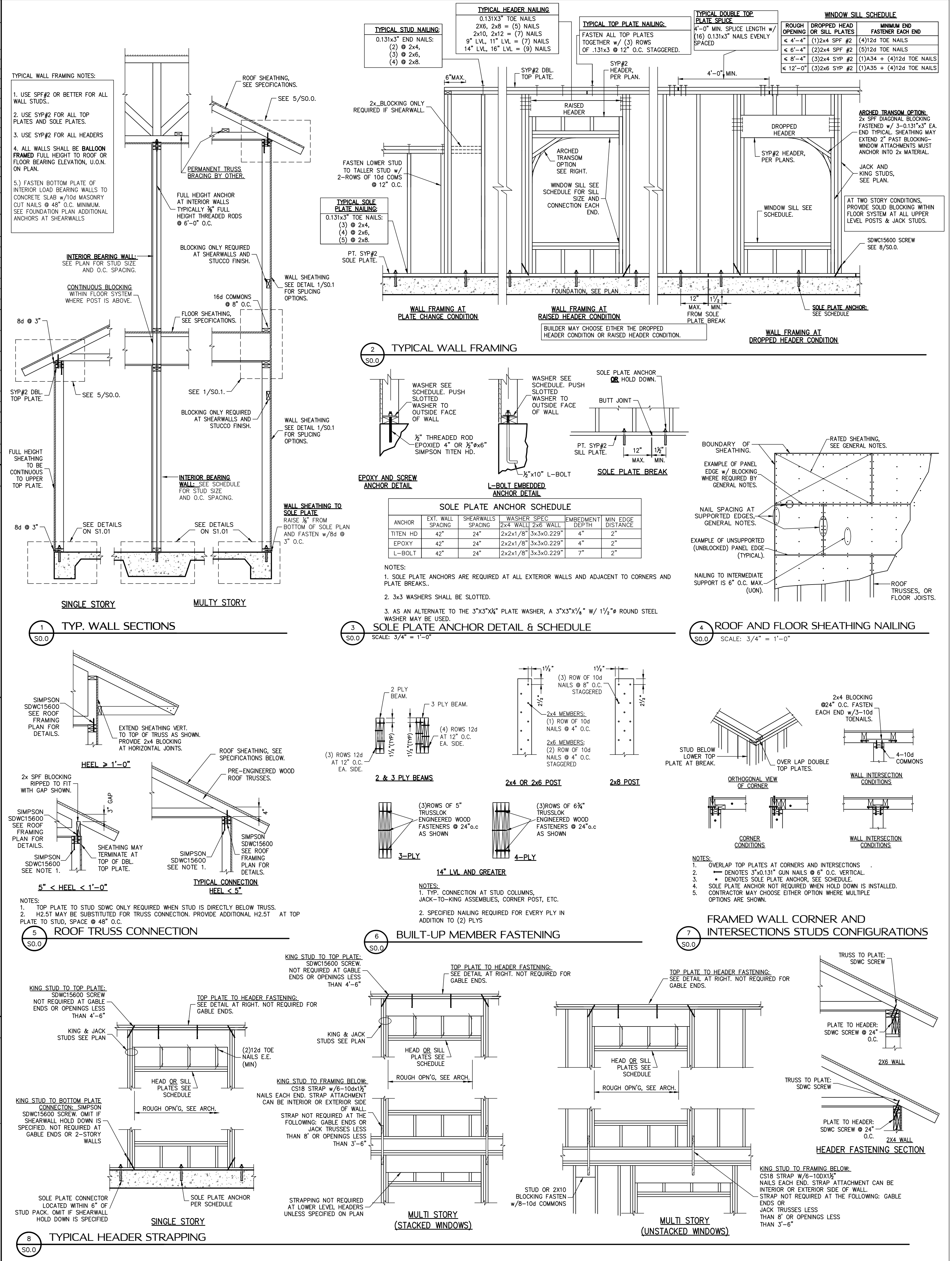
HEADER, SEE PLAN  
FLASHING  
BRICK LINTEL, SEE SCHEDULE

## USP CONNECTORS

| CONNECTOR  | UPLIFT |      | FASTENERS                | FL# CODE |
|------------|--------|------|--------------------------|----------|
|            | SYP    | SPF  |                          |          |
| USP A35    | 450    | 450  | (9)10dx1 1/2"            |          |
| USP RT7    | 585    | 495  | (5)8d EA. END            |          |
| USP RT8A   | 775    | 650  | (5)10dx1 1/2" EA. END    |          |
| USP MTW12  | 1195   | 860  | (7)10dx1 1/2" EA. END    |          |
| USP HTW20  | 1450   | 1245 | (12)10dx1 1/2" EA. END   |          |
| USP MSTA24 | 1640   | 1455 | (9)10d EA. END           |          |
| USP MSTA36 | 2065   | 2065 | (13)10d EA. END          |          |
| USP LTR208 | 1105   | 1105 | 1/2" x 10d TO FTG.       |          |
| USP JU528  | 1305   | 1305 | (6)10d TO HEADER         |          |
| USP HTT16  | 4290   | 4290 | 3/4" x 10d TO FTG.       |          |
| USP HTT22  | 5370   | 5370 | 3/4" x 10d TO FTG.       |          |
| USP PAU44  | 2535   |      | 3/4" x 10d w/ (12)16d    |          |
| USP PAU66  | 2535   |      | 3/4" x 10d w/ (12)16d    |          |
| USP MSTM24 | 1545   | 1455 | (5)1/2" x 2-1/4" TAPCONS |          |

## SIMPSON CONNECTORS

| CONNECTOR | UPLIFT |      | FASTENERS                 | FL# CODE  |
|-----------|--------|------|---------------------------|-----------|
|           | SYP    | SPF  |                           |           |
| A35       | 450    | 450  | 12-8dx1 1/2"              | 10446.4   |
| H2.5T     | 600    | 520  | 5-8d EA. END              | 11478.3   |
| HTS16     | 1150   | 1085 | 16-10d EA. END            | 10456.6   |
| MTS12     | 1000   | 860  | 7-10dx1 1/2" EA. END      | 10456.3   |
| HTS20     | 1450   | 1245 | 24-10dx1 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/BAM       | 11496.2   |
|           |        |      | 1-3/4" x 10d TO FTG.      |           |
| HTT5      | 5250   | 4670 | 32-16d TO TRUSS/BAM       | 11496.2   |
|           |        |      | 1-3/4" x 10d TO FTG.      |           |
| HTS28     | 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" x 10d EPOKIED 6" MIN | 10849.6   |
| ABU66     | 2300   |      | 3/4" x 10d EPOKIED 6" MIN | 10849.6   |
| SET       | N/A    | N/A  | SIMPSON EPOXY-TIE         | 11506.4   |
| LT720B    | 1675   | 1675 | 10-16d TO STUD/BEAM/POST  | 11496.3   |
| LSTA12    | 805    | 695  | 10-10d                    | 13872.5   |
| CS16      | 1705   | 1705 | 13-8d                     | 10852.1   |



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Plans Reviewed for Code Compliance  
State of Florida

SABO STRUCTURAL ENGINEERING  
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PLAN NAME: SCHNEIDER  
SHEET NO: 22-0570

| ISSUE     | DATE     |
|-----------|----------|
| PERMIT    | 11.23.22 |
| REVISIONS | DATE     |

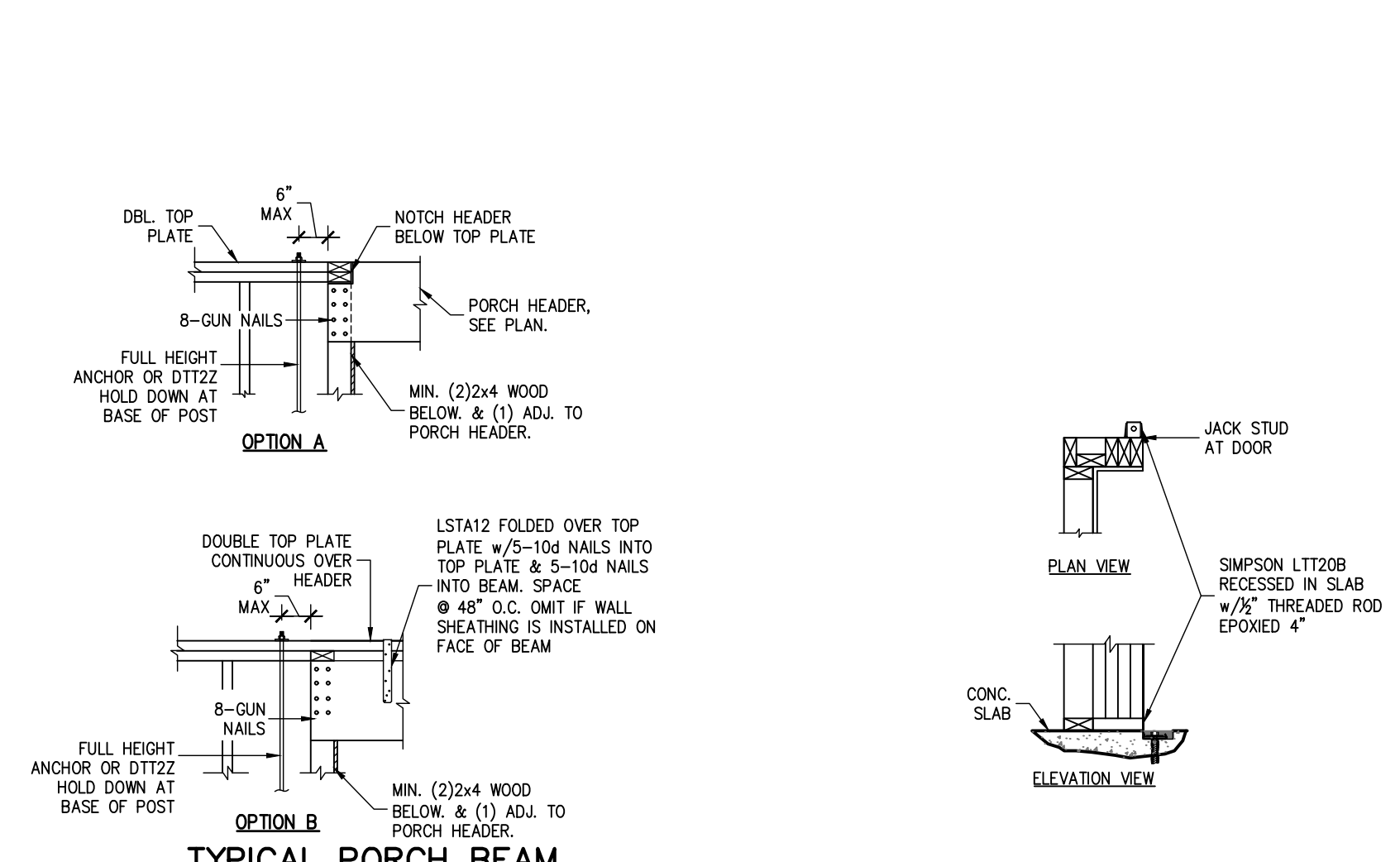
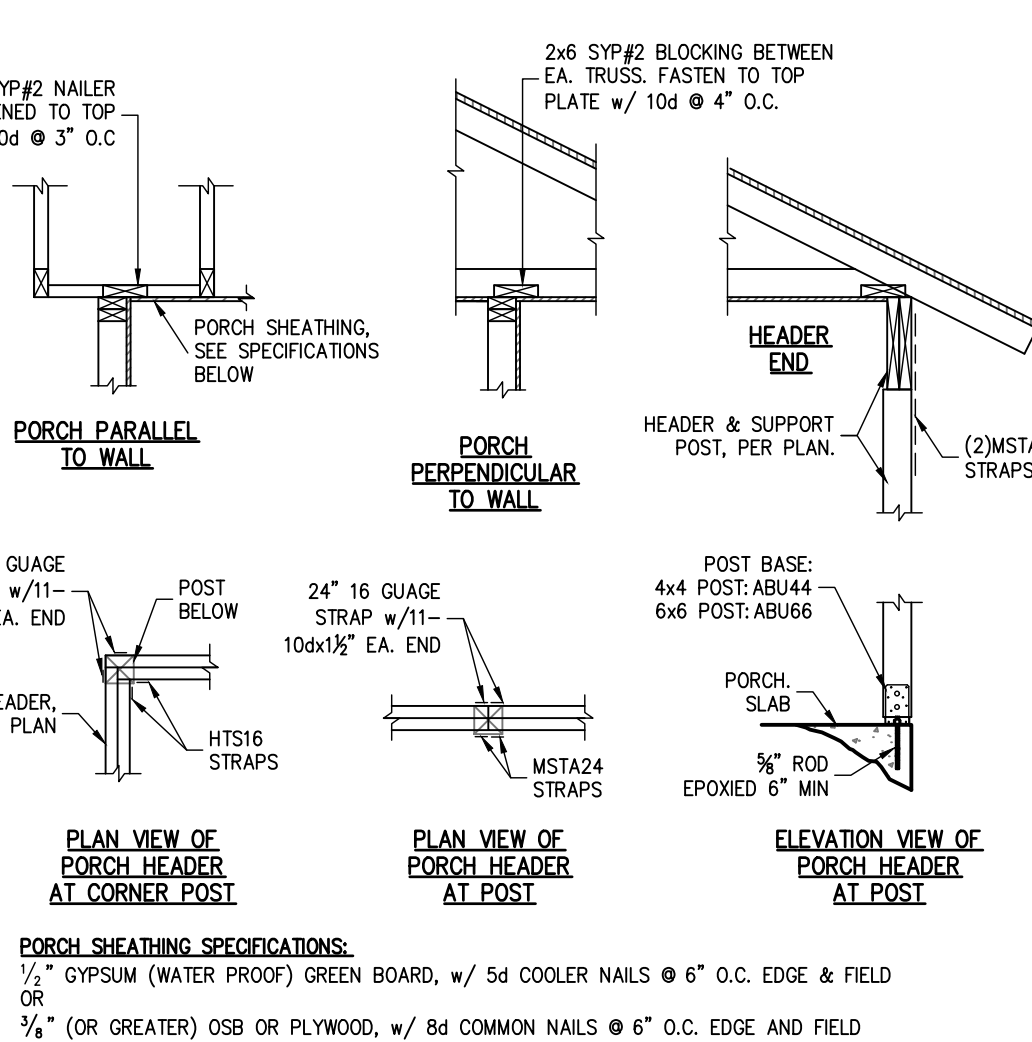
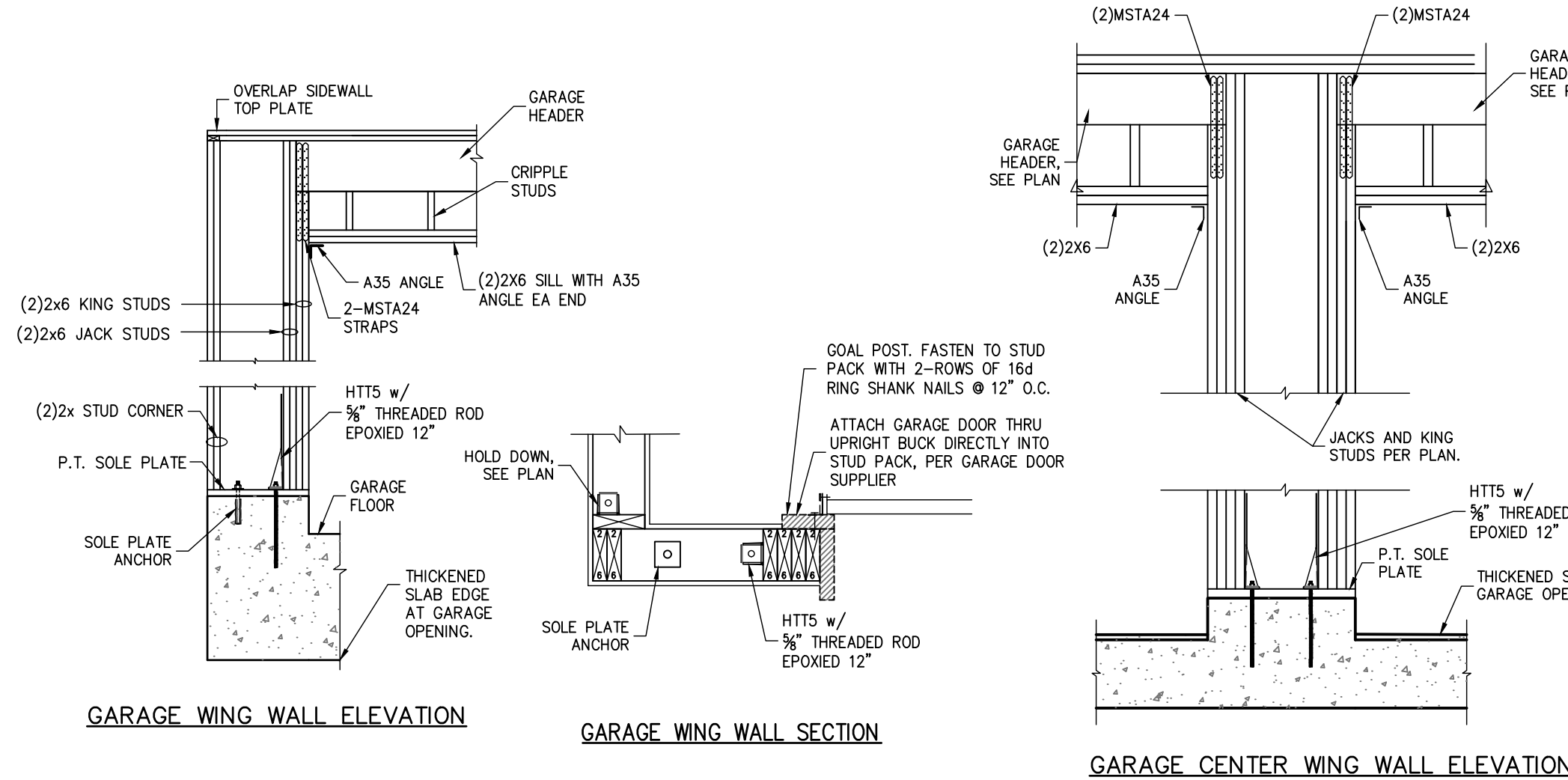
FIELD ALTERATION  
CONTRACTOR SHALL CONTACT SABO STRUCTURAL ENGINEERING PRIOR TO MAKING ANY STRUCTURAL FIELD MODIFICATIONS WHICH MAY VARY FROM THE INTENT OF THE ORIGINAL CONSTRUCTION DOCUMENTS. ANY FIELD ALTERATIONS MADE PRIOR TO OBTAINING APPROVAL BY CHRISTOPHER I. SABOURIN MAY RESULT IN ADDITIONAL ENGINEERING OR INSPECTION FEES.

SCALING  
DO NOT SCALE DIMENSIONS FROM THESE DRAWINGS. IF A DIMENSION IS UNCLEAR REFER TO THE ARCHITECTURAL DRAWINGS OR CONTACT THE E.O.R.

DESIGN CRITERIA AND GENERAL NOTES

SHEET 50.0  
SHEET 1 OF 7



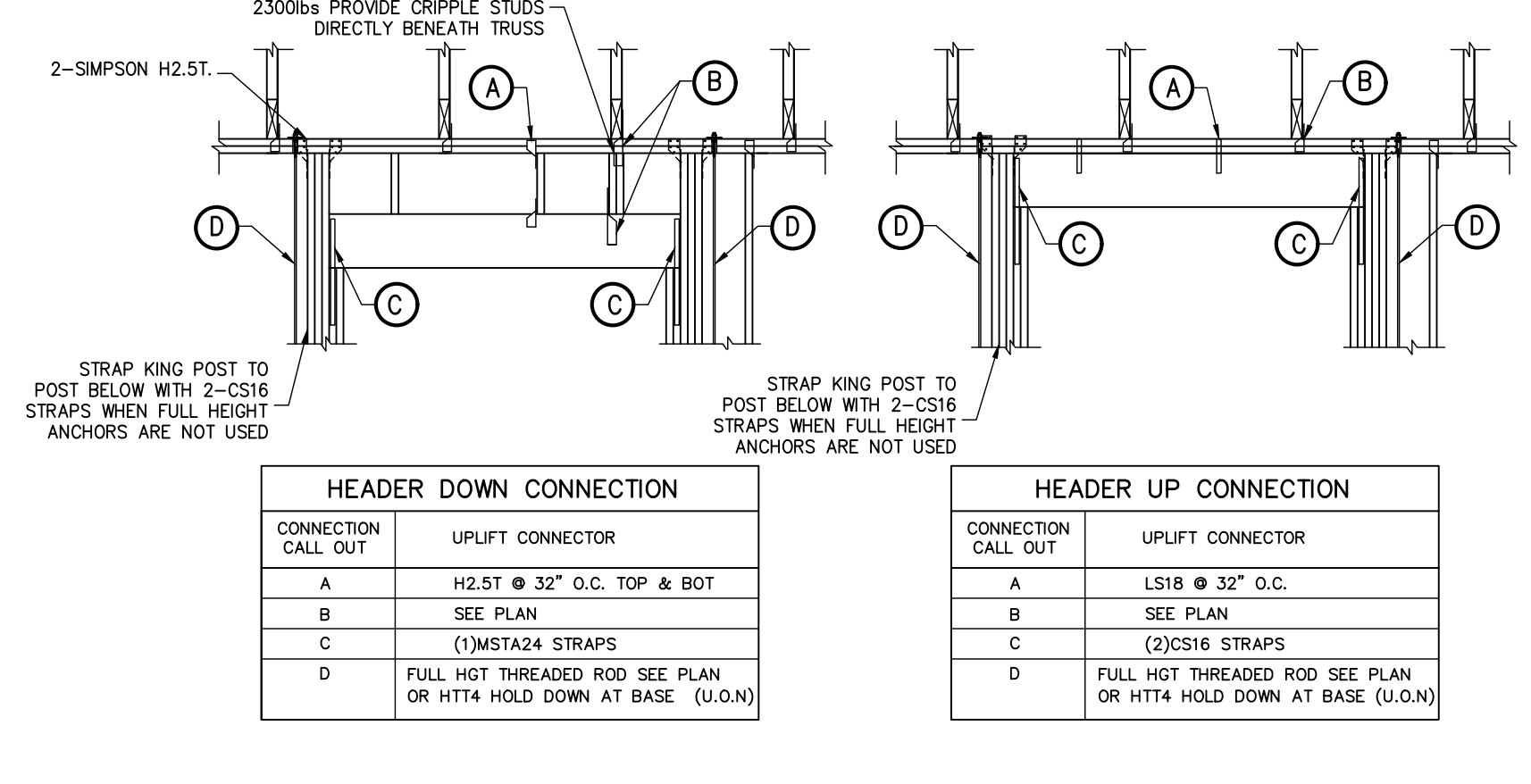
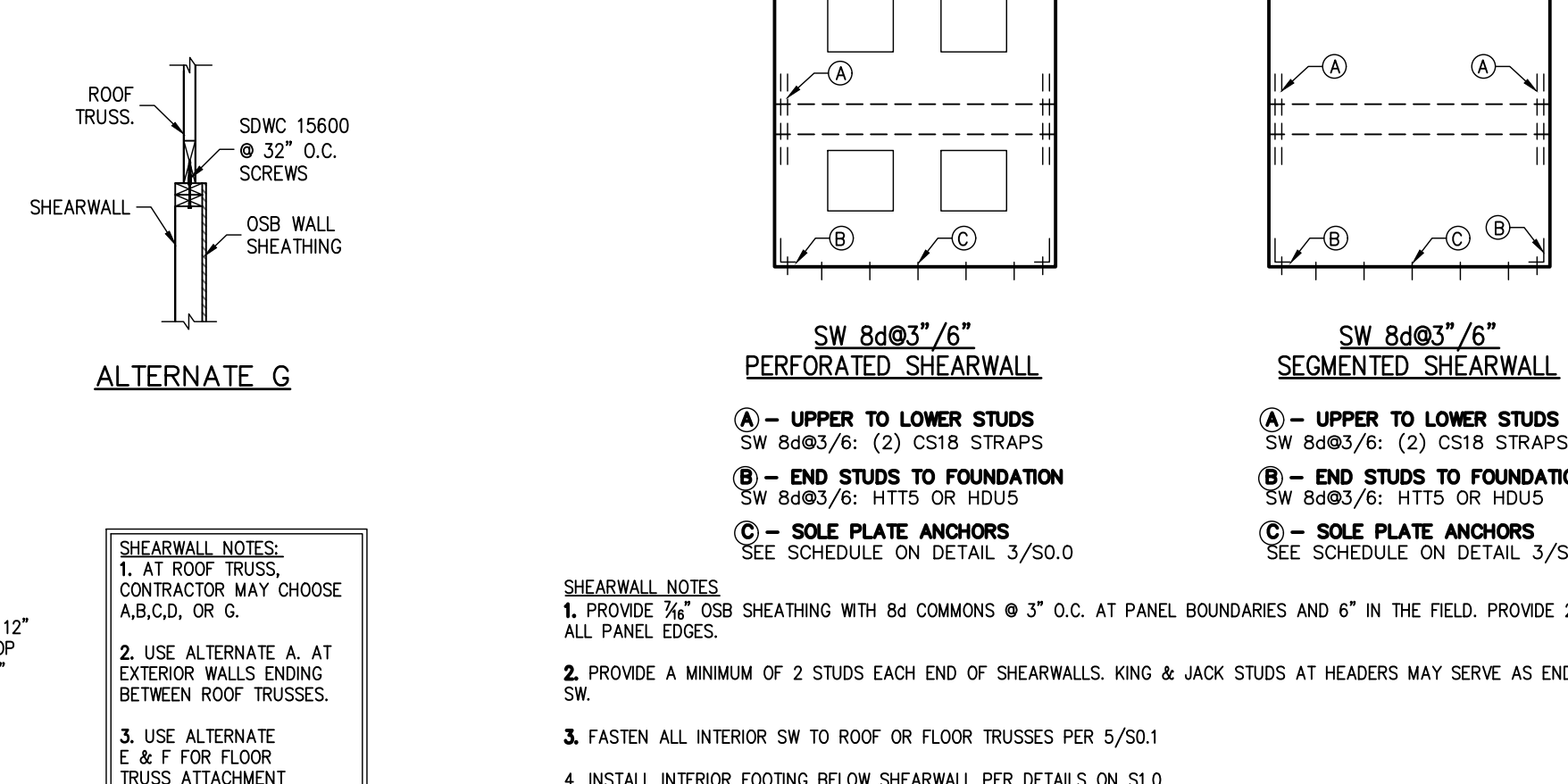
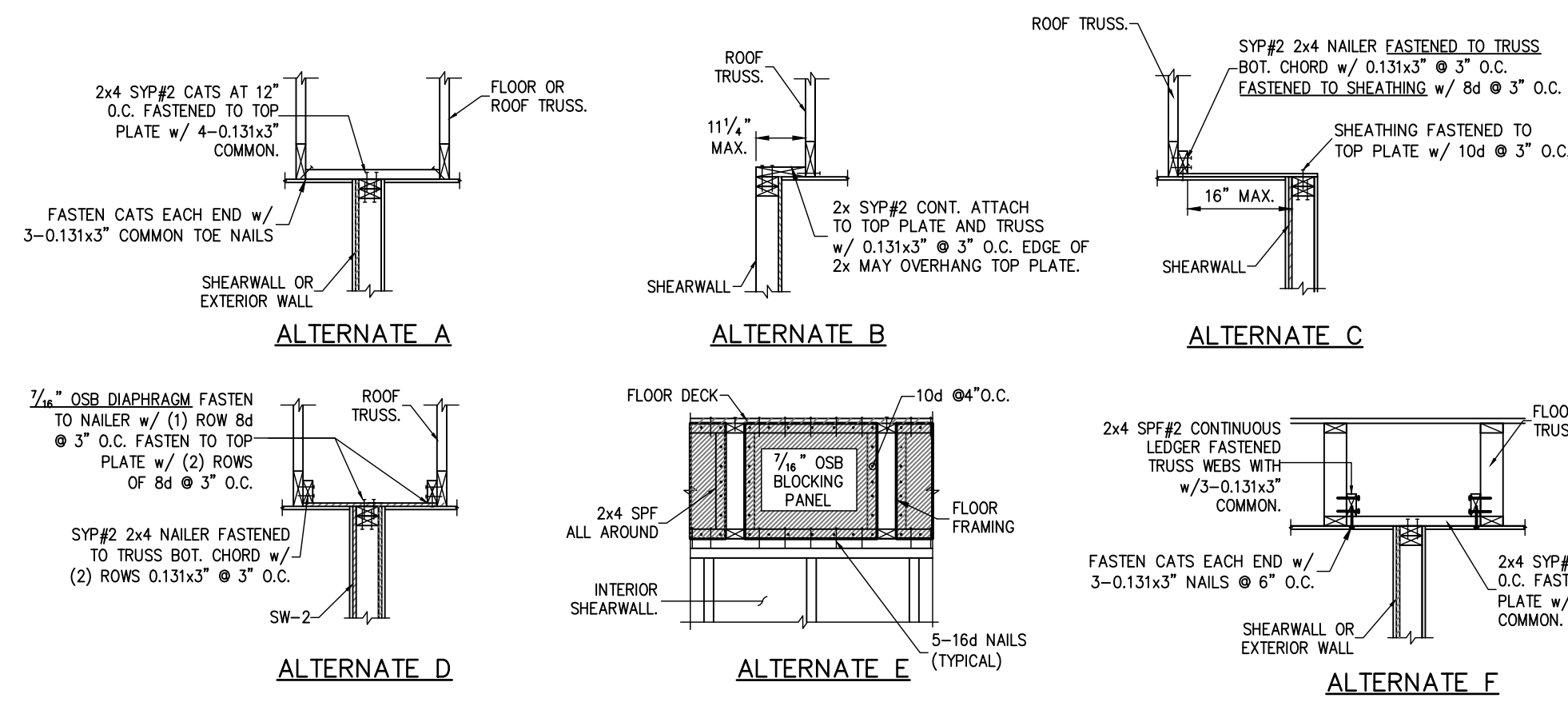


**WHEN NOTED** **4** **S0.1** **LTT20B RECESSED IN SLAB**  
SEE CONSTRUCTION SPECIFICATIONS FOR ROOF AND WALL SHEATHING AND STUD FRAMING.

**WHEN NOTED** **1** **S0.1** **GARAGE HEADER FRAMING**  
SCALE: N.T.S.

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

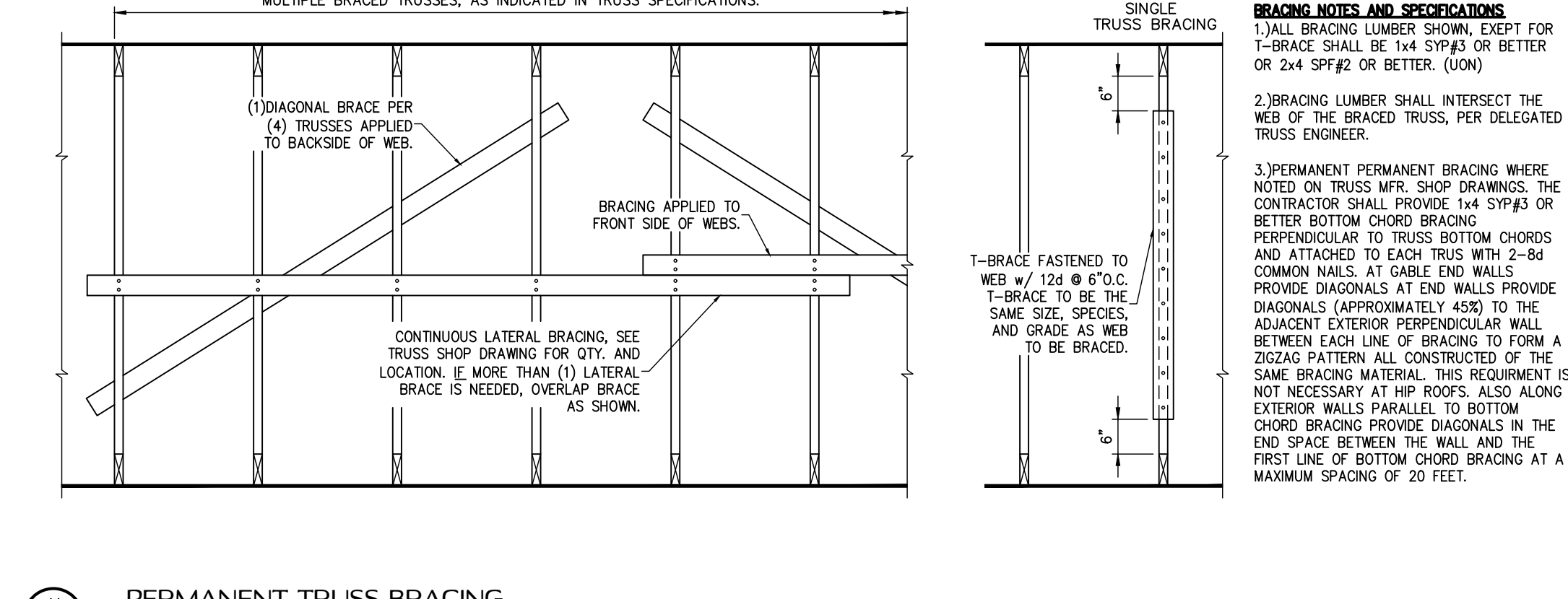
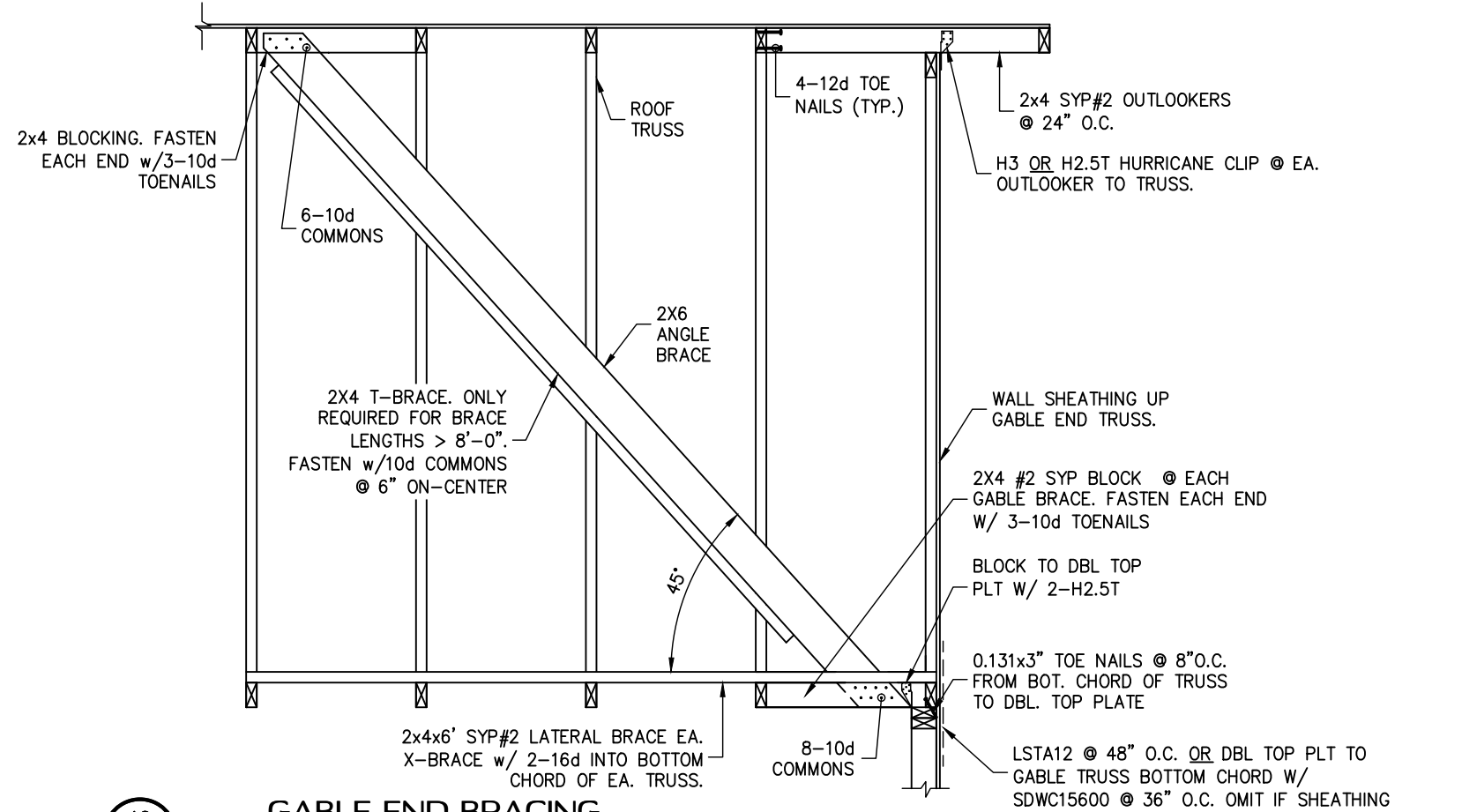
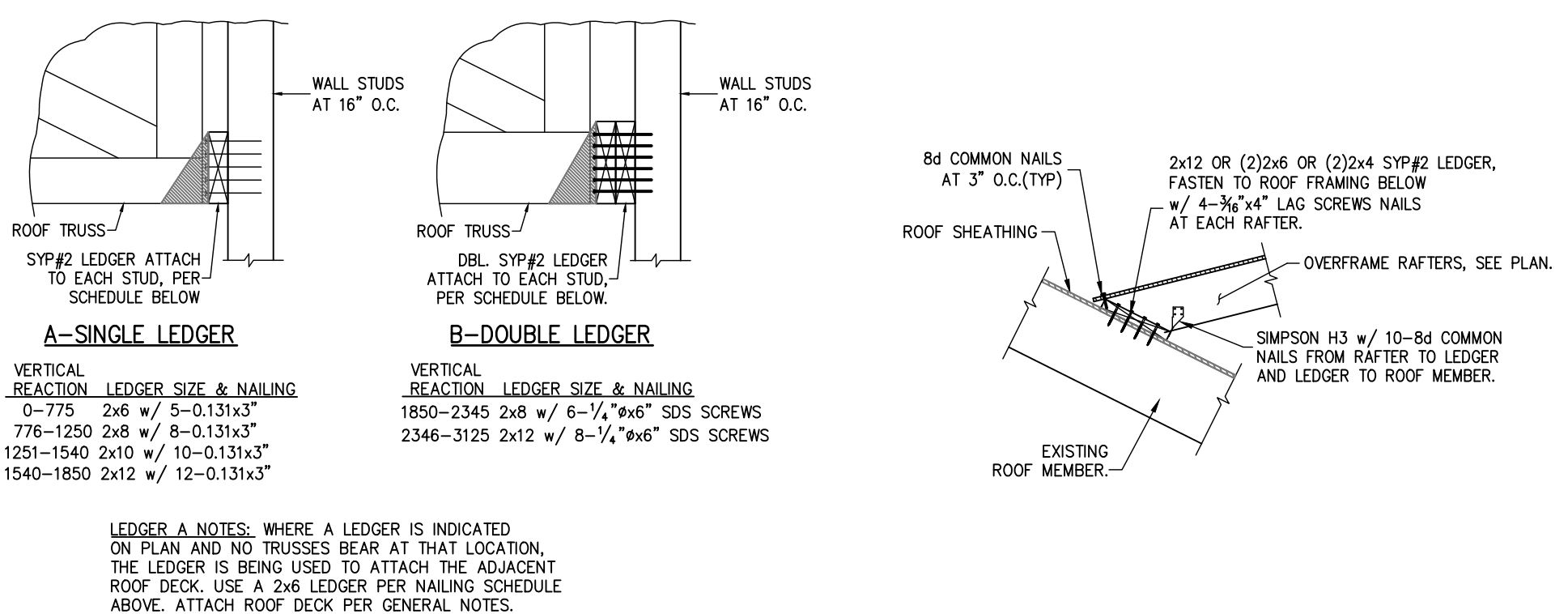
**WHEN NOTED** **3** **S0.1** **TYPICAL PORCH BEAM CONNECTION**  
SCALE: N.T.S.



**WHEN NOTED** **5** **S0.1** **SHEARWALL ATTACHMENT AT ROOF & FLOOR**

**WHEN NOTED** **6** **S0.1** **TYPICAL SHEARWALL ELEVATION**  
PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM AT SW END POSTS.

**WHEN NOTED** **7** **S0.1** **HEADER TIE DOWN**  
THIS DETAIL ONLY APPLIES WHEN NOTED ON PLAN

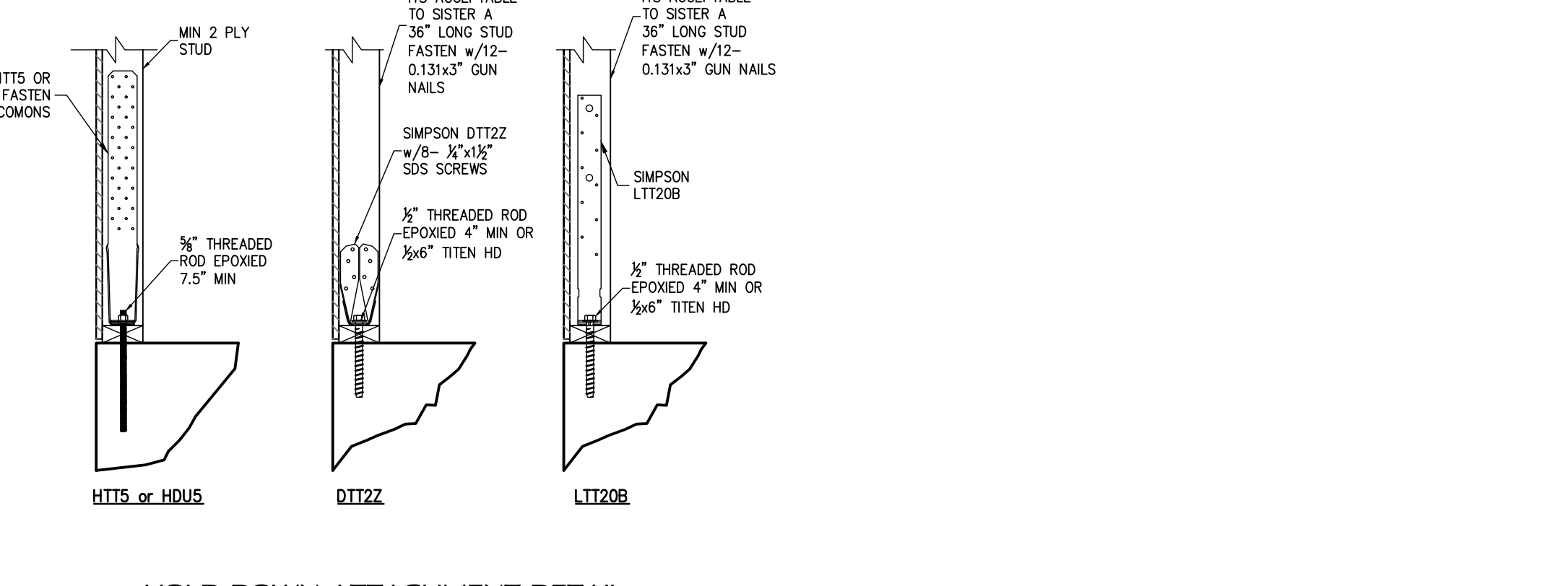
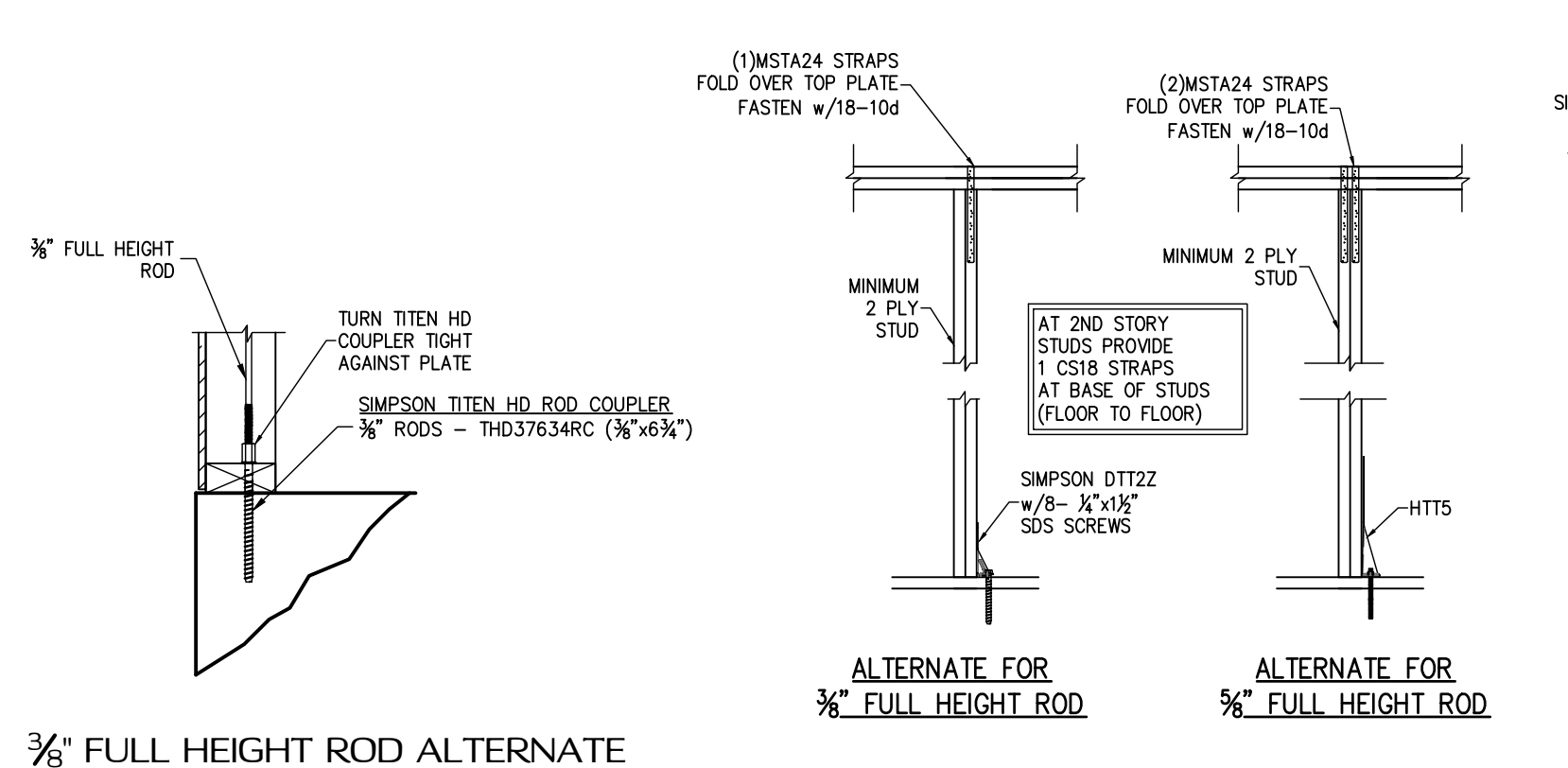
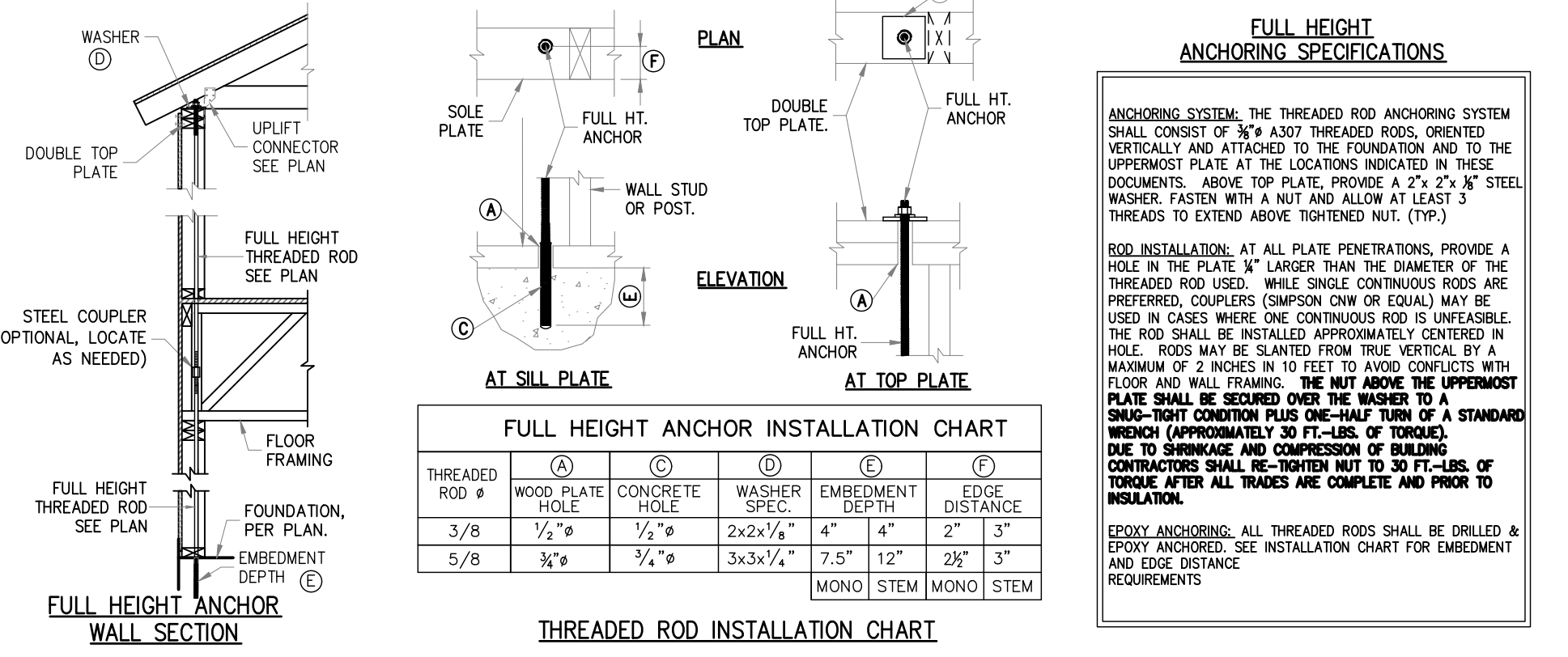


**WHEN NOTED** **8** **S0.1** **LEDGER CONNECTION**  
TRUSS TO LEDGER CONNECTION BY TRUSS ENGINEER, NOT SHOWN FOR CLARITY

**WHEN NOTED** **9** **S0.1** **DECK LEDGER AT OVERFRAME RAFTERS**  
USE THIS DETAIL TO FASTEN OVERFRAMED ROOFS, VALLEYS, ETC.

**WHEN NOTED** **10** **S0.1** **GABLE END BRACING**  
NOTES: 1. SPACE GABLE END BRACING @ 4'-6" MAX. 2. ALL MATERIAL TO BE SYP#2

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



**WHEN NOTED** **12** **S0.1** **FULL HEIGHT WOOD FRAME WALL ANCHORING SYSTEM**  
THIS DETAIL ONLY APPLIES WHEN NOTED ON PLAN

**WHEN NOTED** **13** **S0.1** **3/8" FULL HEIGHT ROD ALTERNATE ATTACHMENT**

**WHEN NOTED** **14** **S0.1** **FULL HEIGHT THREADED ROD ALTERNATE**

1.2122  
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SCHNEIDER

SSE No.  
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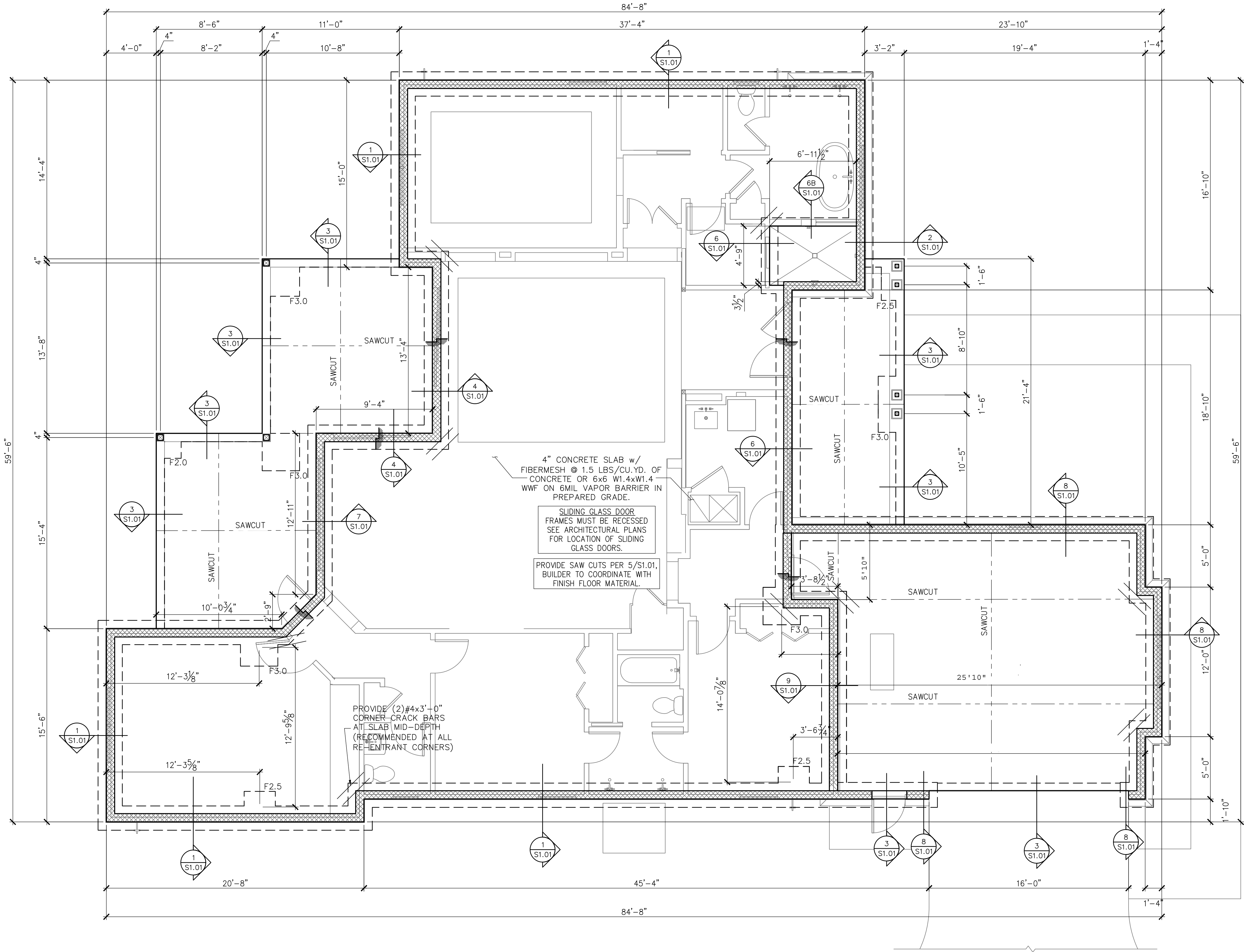
FIELD ALTERATION  
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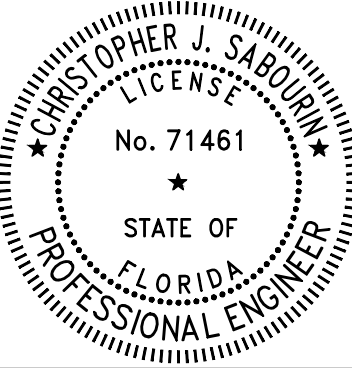
TYPICAL FRAMING DETAILS

SHEET  
**S0.1**  
SHEET 2 OF 7





| SYMBOLS LEGEND |                         |
|----------------|-------------------------|
|                | DESIGNATES FOOTING LINE |
|                | DESIGNATES SAWCUT LINE  |
|                | STEM WALL FOOTING       |
|                | DESIGNATES SLAB RECESS  |



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## STRUCTURAL ENGINEERING FOR SCHNEIDER RESIDENCE

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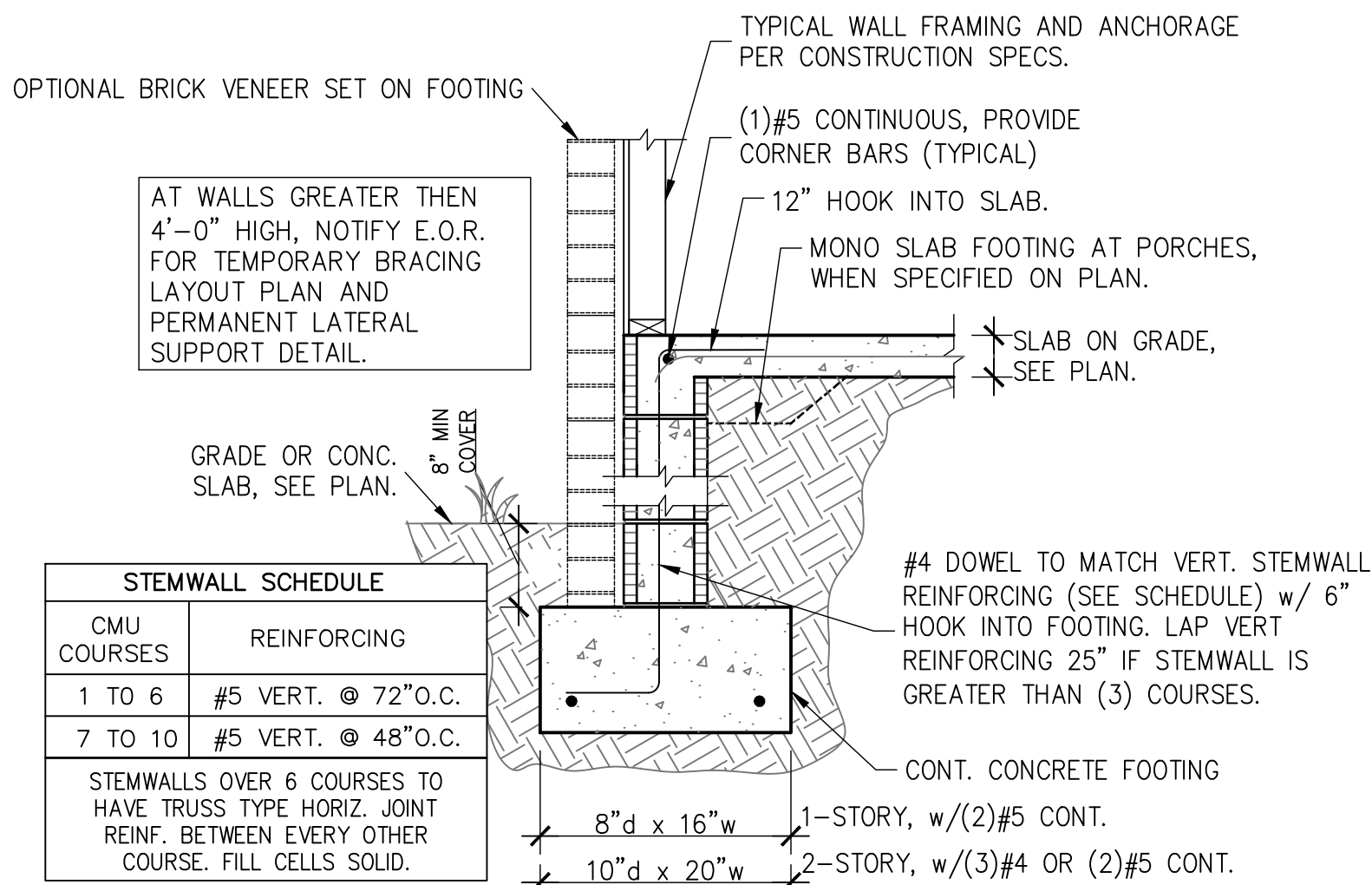
## FOUNDATION PLAN

SHEET  
**S1.0**  
SHEET 3 OF 7

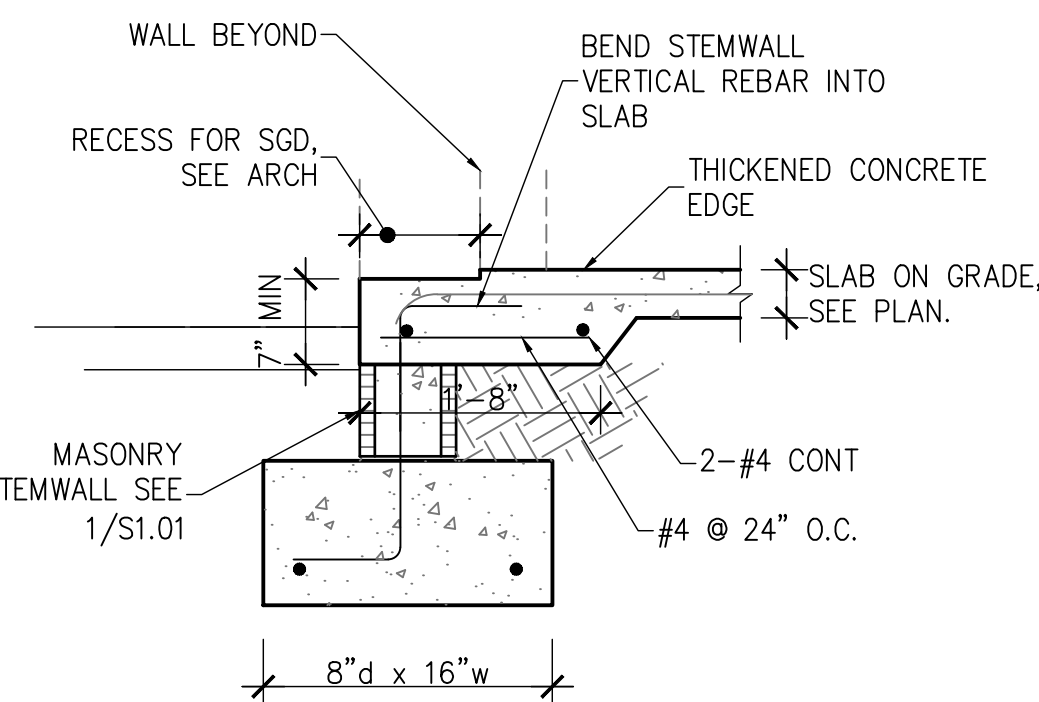
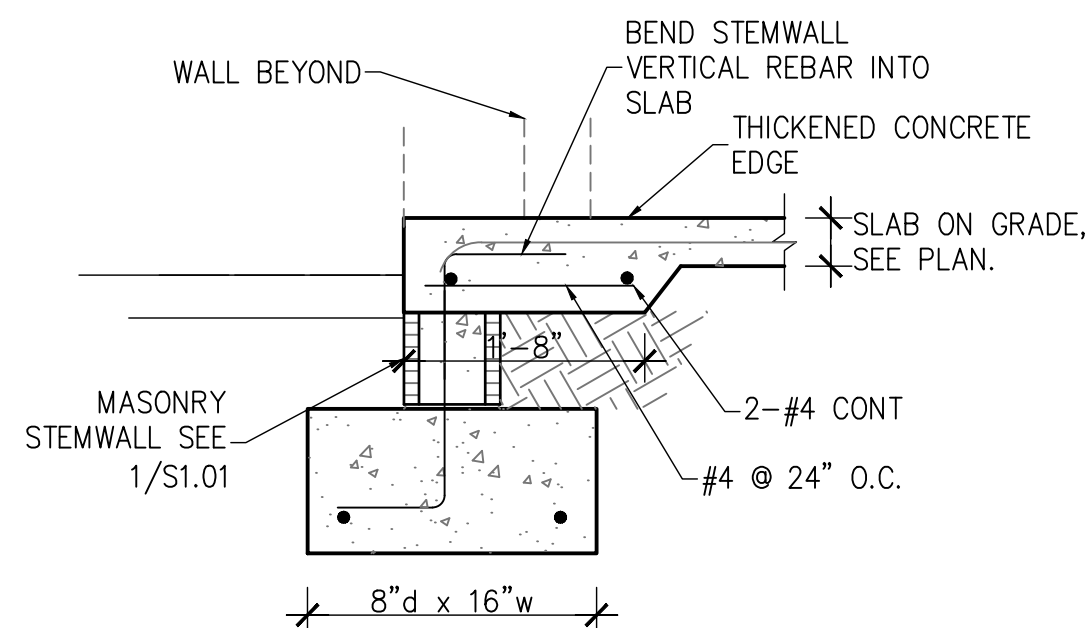
| FOOTING SCHEDULE AND NOTES                                                                                                                                                                                                               |        |       |       |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|-------|-------------------|
| 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. FTGS. & 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"

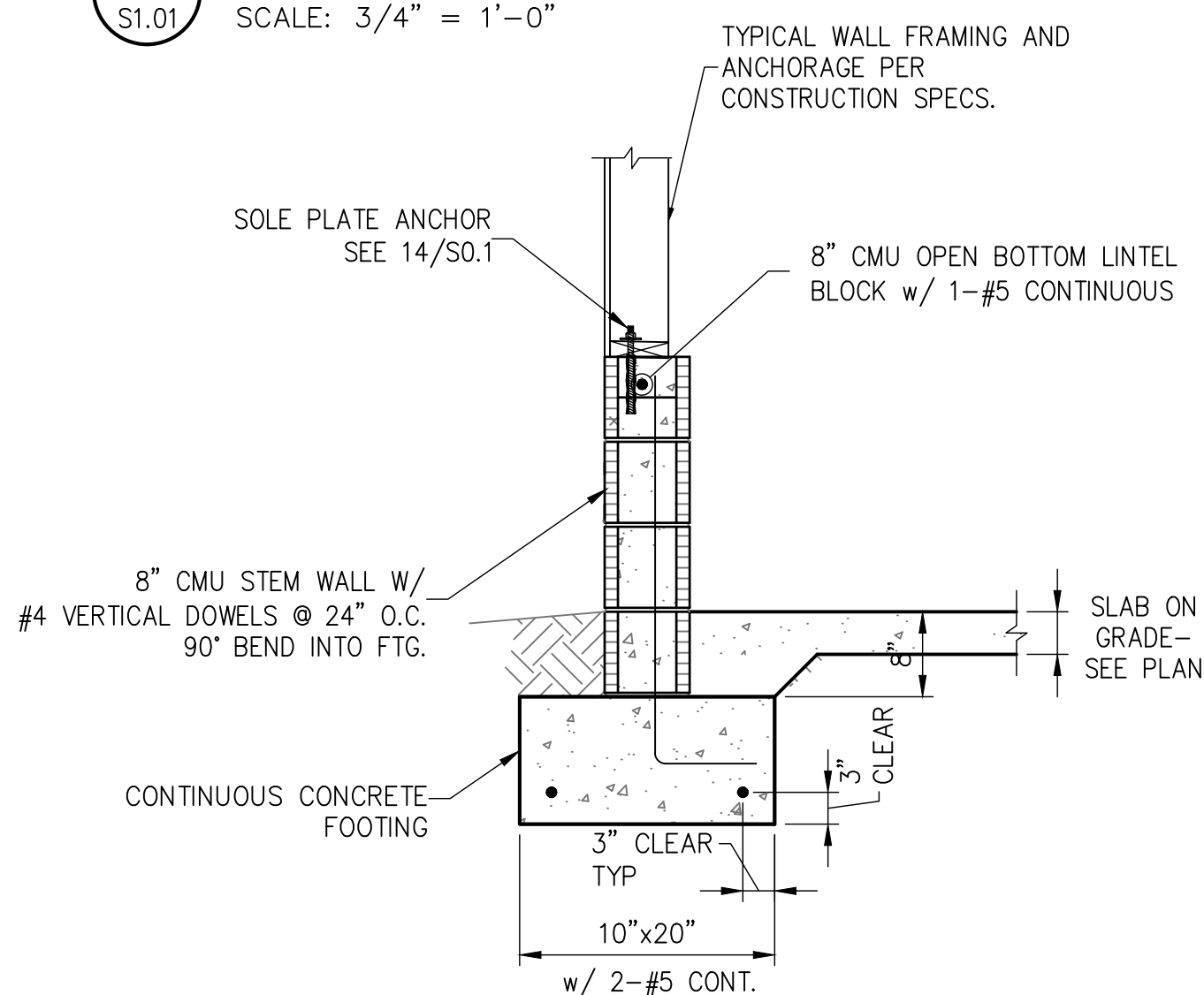




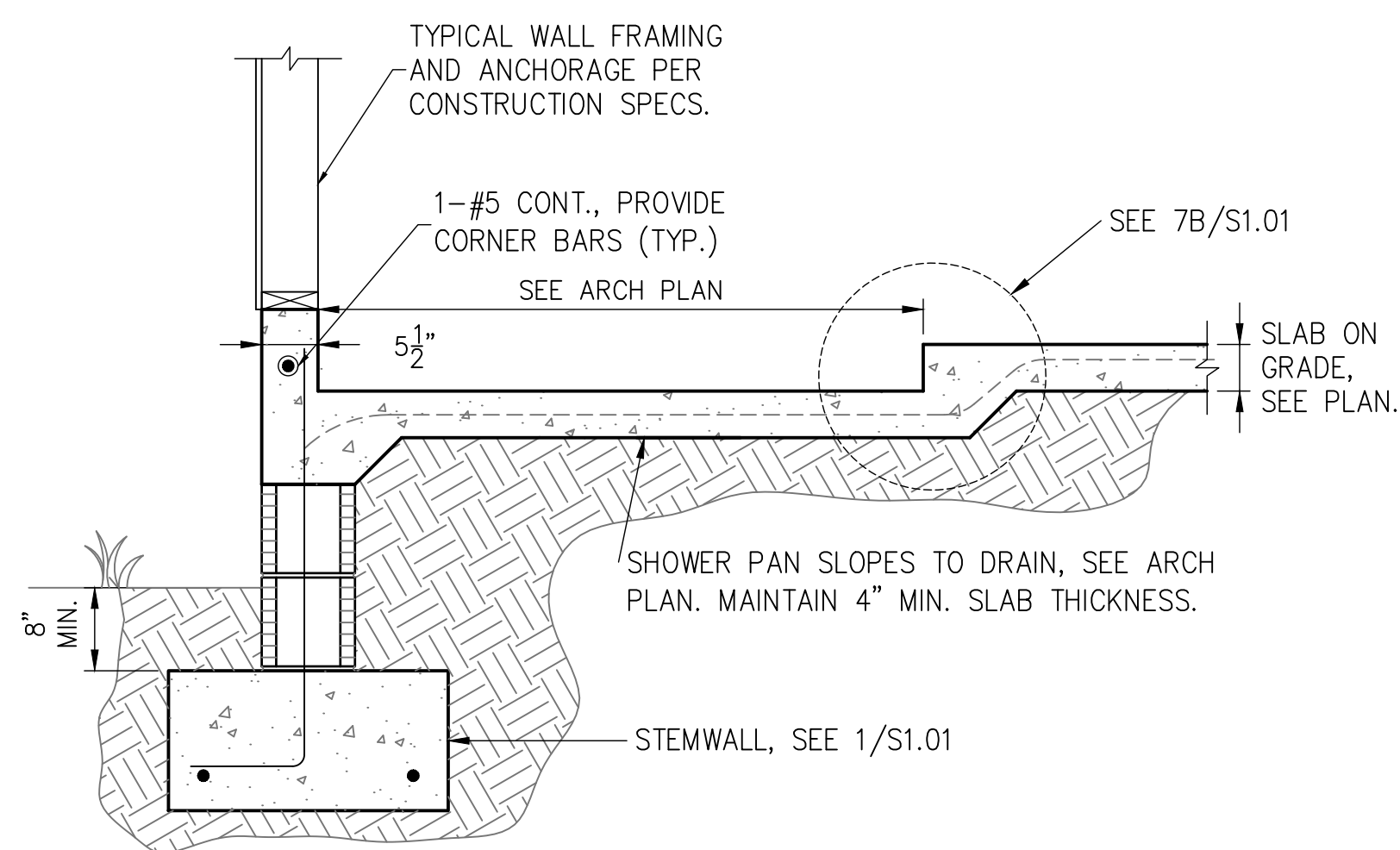
1 STEMWALL FOOTING  
S1.01 SCALE: 3/4" = 1'-0"



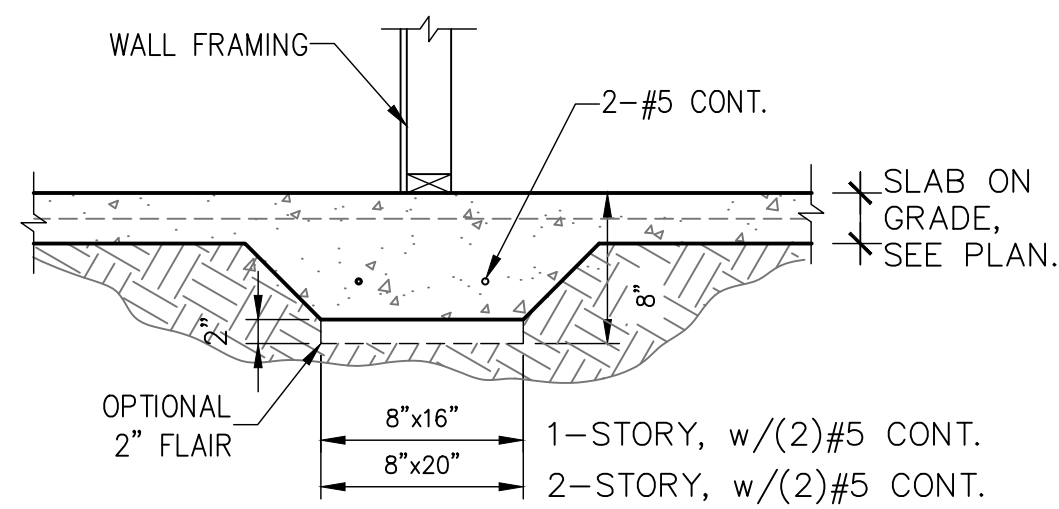
4 STEMWALL FOOTING AT SLIDER  
S1.01 SCALE: 3/4" = 1'-0"



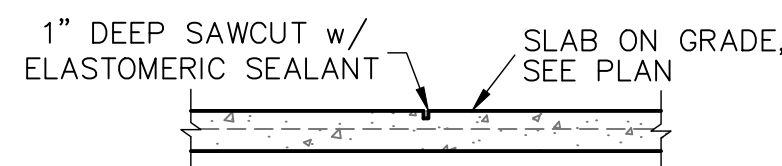
8 GARAGE STEM WALL  
S1.01 (IF REQUIRED)



2 FOOTING W/ SHOWER RECESS  
S1.01 SCALE: 3/4" = 1'-0"

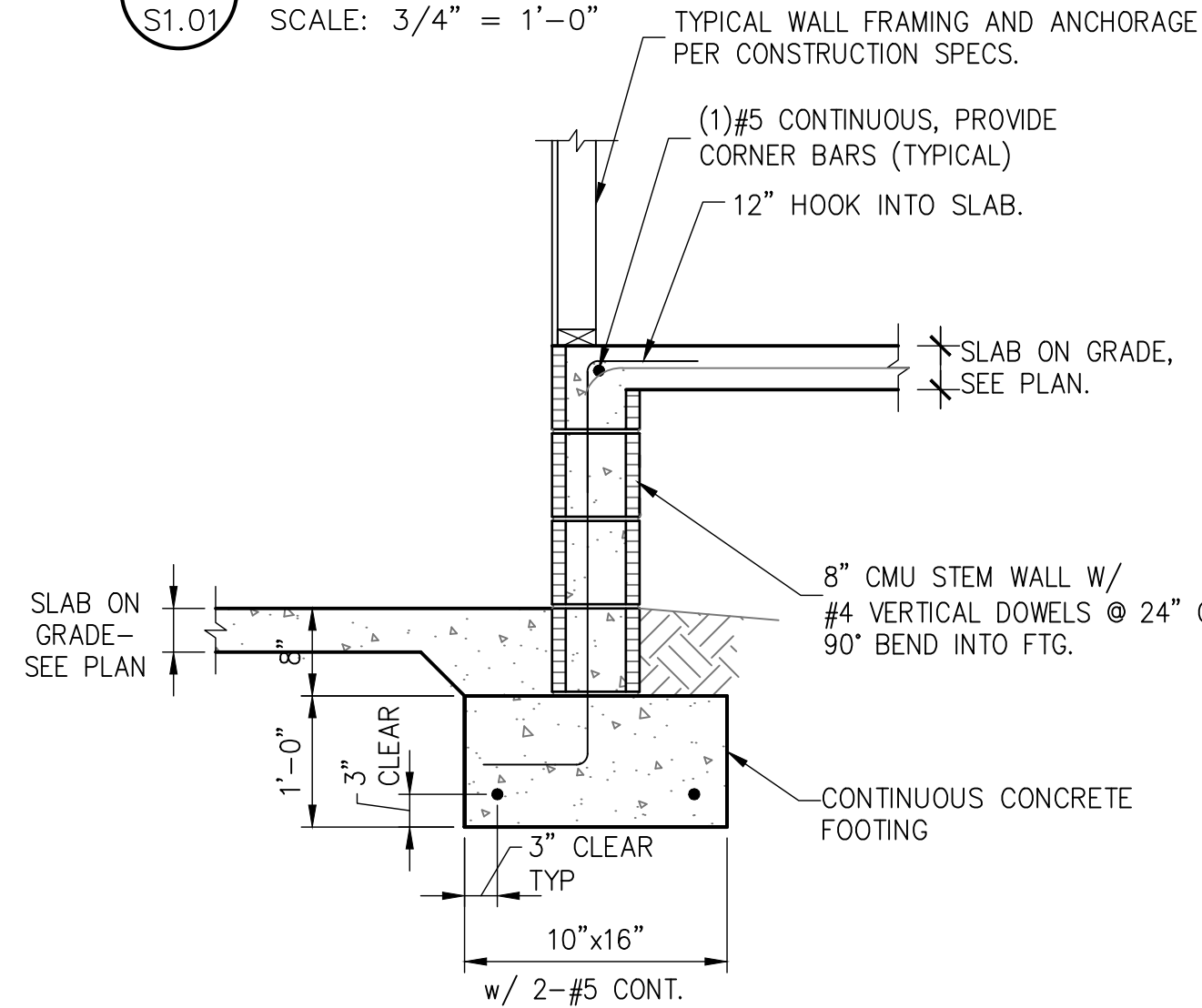


6 BEARING AT INTERIOR  
S1.01 SCALE: 3/4" = 1'-0"

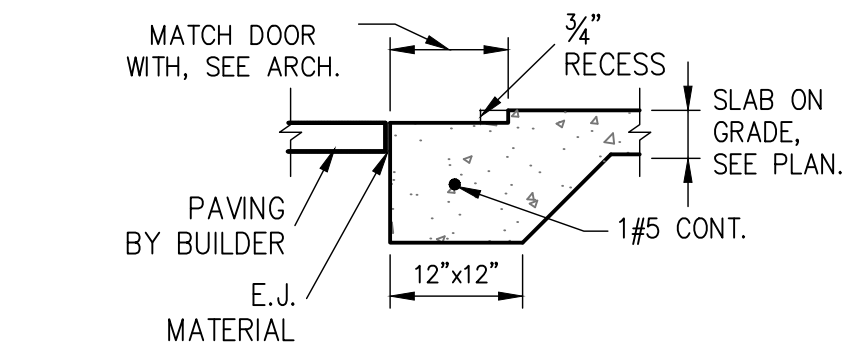


- NOTES:
- 1) PROVIDE SAWCUTS TO CREATE APPROXIMATE 12' X 12' MAX. SQ.
  - 2) SAWCUT CONC. SLAB WITHIN 4 TO 12 HOURS OF CONC. PLACEMENT.

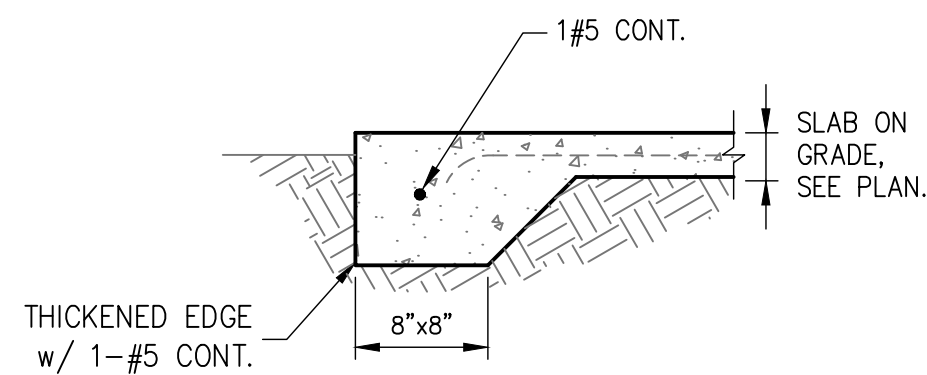
5 SAW CUT DETAIL  
S1.01 SCALE: 3/4" = 1'-0"



9 STEMWALL AT GARAGE  
S1.01 SCALE: 3/4" = 1'-0"

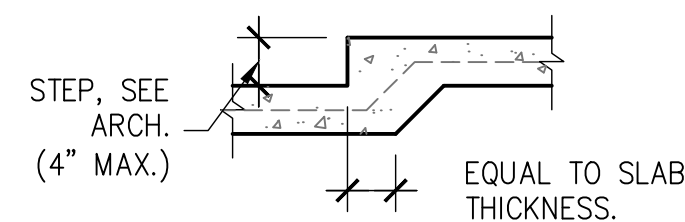


AT GARAGES

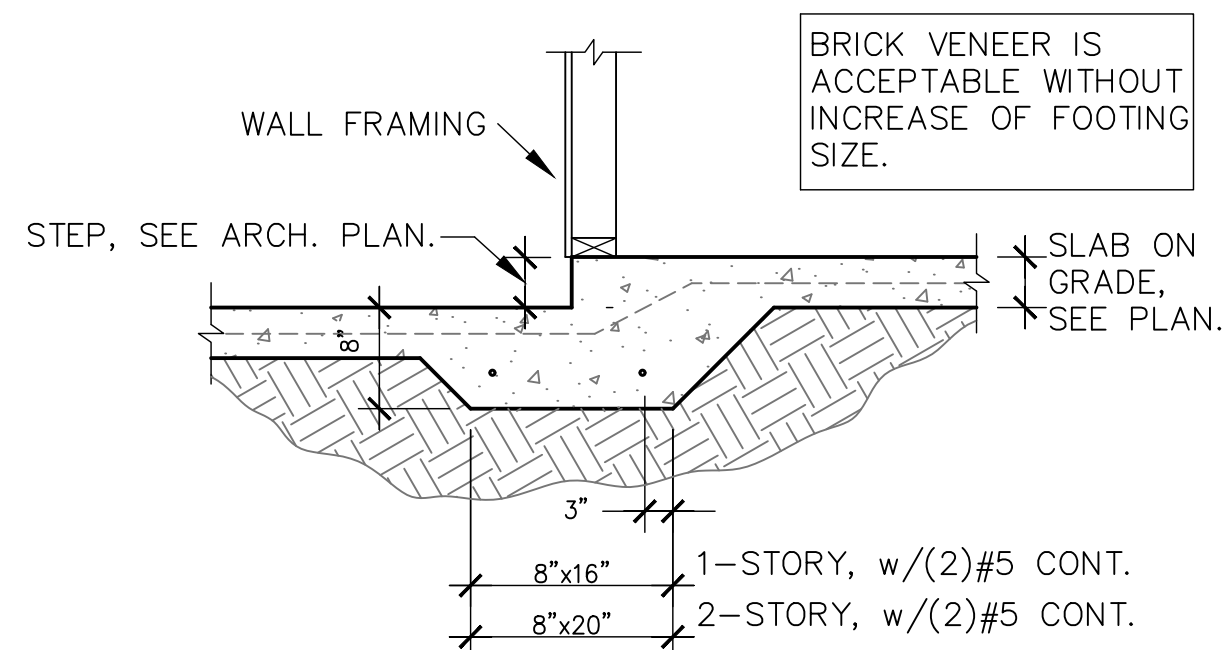


AT PORCHES

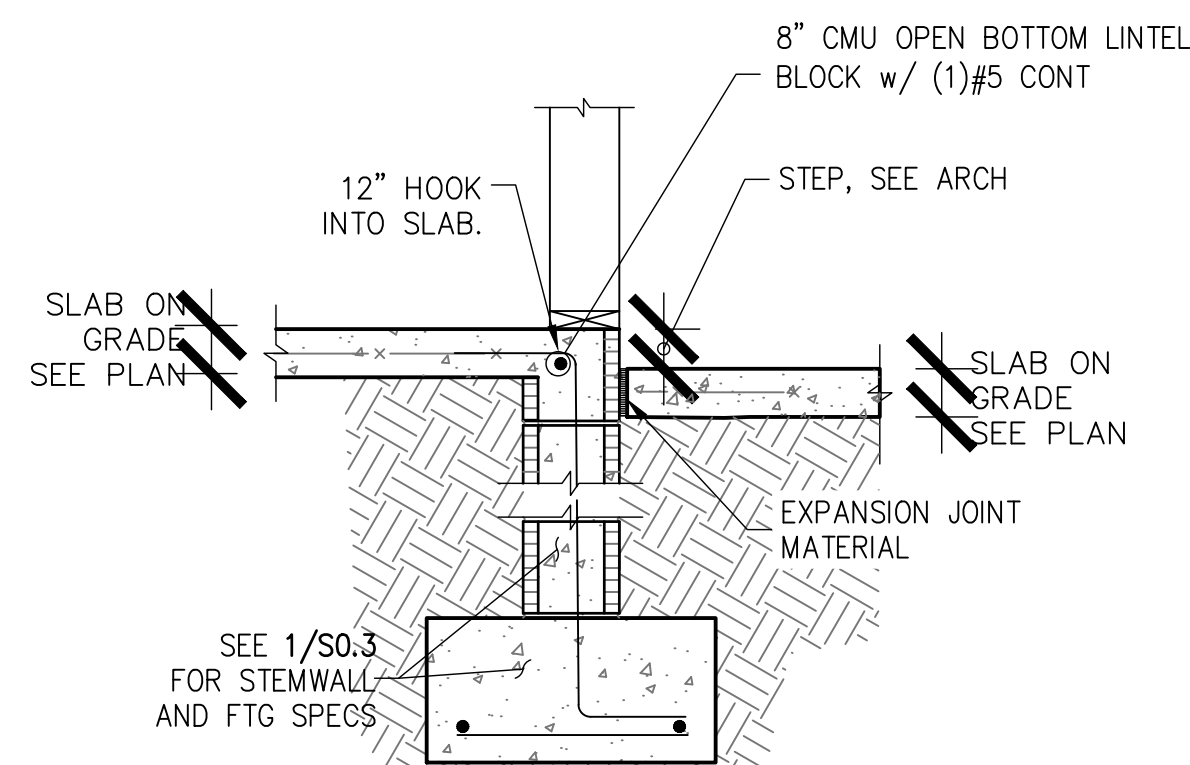
3 THICKENED SLAB  
S1.01 SCALE: 3/4" = 1'-0"



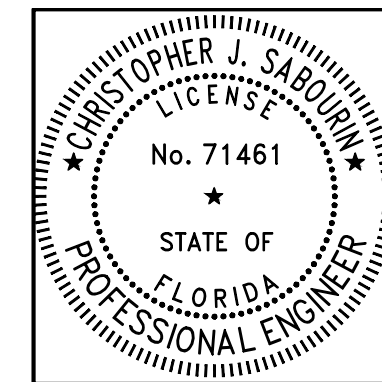
6B @ SLAB RECESS



6 MONO. FOOTING AT STEP-DOWN  
S1.01 SCALE: 3/4" = 1'-0"



7 STEP AT STEMWALL  
S1.01 SCALE: 3/4" = 1'-0"



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FIELD ALTERATION

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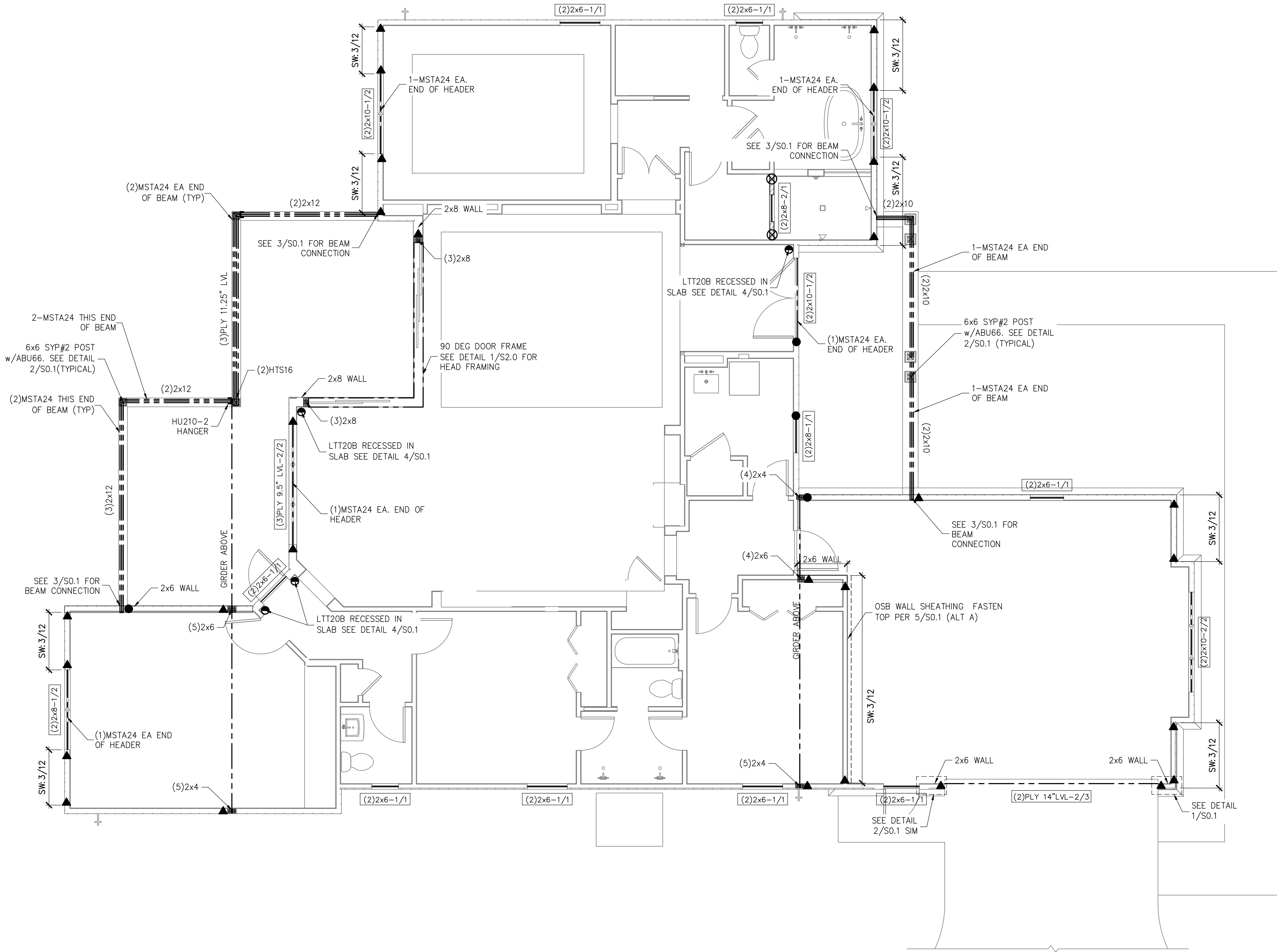
SCALING

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FOUNDATION  
DETAILS

SHEET  
S1.01  
SHEET 4 OF 7





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

SYMBOLS LEGEND

|  |                                                                                                                                                                                       |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | DESIGNATES OSB SHEARWALL. THE HIDDEN LINE DESIGNATES SIDE OF WALL. THE SHEARWALL SHEATHING TO BE APPLIED. 8d @ 16" O.C. DESIGNATES 8d COMMONS @ 3" O.C. EDGE & 6" O.C. "IN THE FIELD" |
|  | DESIGNATES THE BEAM SIZE, NUMBER OF PLYS & JACK/KNO STUDS NEEDED FOR SUPPORT HEADER.                                                                                                  |
|  | BEAM OR TRUSS, SEE PLAN                                                                                                                                                               |

ANCHOR LEGEND

|  |                                                                                         |
|--|-----------------------------------------------------------------------------------------|
|  | 3/8" A307 DIAMETER FULL HEIGHT THREADED ROD, SEE DETAIL 12/SO.1                         |
|  | 3/8" A307 DIAMETER FULL HEIGHT THREADED ROD, SEE DETAIL 12/SO.1                         |
|  | 3/8" A307 DIAMETER THREADED ROD TERMINATES AT FIRST FLOOR TOP PLATE, SEE DETAIL 12/SO.1 |
|  | 3/8" A307 DIAMETER THREADED ROD TERMINATES AT FIRST FLOOR TOP PLATE, SEE DETAIL 12/SO.1 |
|  | SIMPSON HTS SEE DETAIL 15/SO.1                                                          |
|  | SIMPSON DTZZ SEE DETAIL 15/SO.1                                                         |
|  | SIMPSON LTT20B SEE DETAIL 15/SO.1                                                       |

WALL STUD SCHEDULE

| LOCATION | PLATE HEIGHT     | STUD SIZE & SPACING                         |
|----------|------------------|---------------------------------------------|
| EXTERIOR | 9'-1" MAX        | 2x4 SPF#2 @ 16" O.C.                        |
| EXTERIOR | 10'-1" MAX       | 2x6 SPF#2 @ 16" O.C. @ 2x4 SPF#2 @ 12" O.C. |
| EXTERIOR | 10'-1" TO 14'-0" | 2x6 SPF#2 @ 16" O.C.                        |
| INTERIOR | 10'-0" MAX       | 2x4 SPF#2 @ 16" O.C.                        |
| INTERIOR | 12'-0" MAX       | 2x6 SPF#2 @ 16" O.C. @ 2x4 SPF#2 @ 12" O.C. |

STUD NOTES

- 1.) WALL STUDS SPECIFIED ON PLAN SUPERSEDE THIS TABLE
- 2.) MINIMUM STUD SIZE AND SPACING ARE SHOWN. CONTRACTOR MAY INCREASE STUD SIZE TO MEET ARCHITECTURAL REQUIREMENTS.
- 3.) SPF DENOTES SPRUCE PINE FIR. SYP DENOTES SOUTHERN YELLOW PINE.
- 4.) USE SYP#2 FOR ALL TOP PLATES AND SOLE PLATES.
- 5.) FASTEN BOTTOM PLATE OF INTERIOR LOAD BEARING WALLS TO CONCRETE SLAB w/16d MASONRY CUT NAILS @ 16" O.C. MINIMUM. SEE 3/SO.0 FOR ADDITIONAL ANCHORS AT SHEARWALLS

COMBINED USE PANEL NOTES

1. EXTERIOR WALL SHEATHING SHALL BE CONTINUOUS FROM BOTTOM PLATE TO UPPER MOST TOP PLATE. SEE DETAIL 1/SO.1 FOR SHEATHING SPLICE LOCATIONS FOR MULTI STORY CONDITIONS
2. SEE SHEET SO.0 FOR WALL SHEATHING SPECIFICATIONS.
3. UPPER MOST TOP PLATE SUPPORTING ROOF MEMBERS SHALL BE STRAPPED AS SHOWN IN DETAIL 1/SO.0
4. INSTALL SOLE PLATE ANCHORS PER DETAIL 3/SO.0

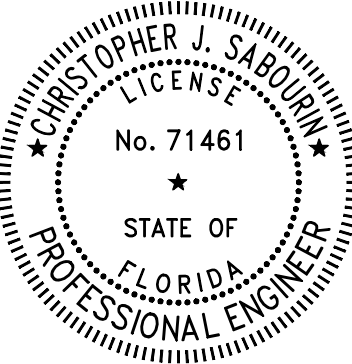
GENERAL NOTES

1. SEE DETAIL 2/SO.0 FOR WALL FRAMING DETAIL. SEE WALL STUD SCHEDULE THIS SHEET FOR STUD SIZES AND SPACING. AT GIRDERS AND BEAMS, PROVIDE STUDS BELOW TO MATCH BEAM/GIRDER PLYS.
2. SEE SHEET SO.0 FOR ROOF AND FLOOR SHEATHING SPECIFICATIONS.
3. WHERE FRAMING MEMBERS CONSIST OF MULTIPLE PLIES (BEAMS, HEADER, AND STUDS) FASTEN PLIES TOGETHER PER DETAIL 6/SO.0
4. INSTALL SOLE PLATE ANCHORS PER DETAIL 3/SO.0
5. AT SHEARWALLS, PROVIDE DIAPHRAGM ATTACHMENT PER DETAIL 5/SO.1
6. FOR ATTACHMENT OF EXTERIOR WALLS THAT TERMINATE BETWEEN TRUSSES, SEE 5A/SO.1
7. AT PORCHES, SEE DETAIL 2/SO.1 FOR FRAMING AND HOLD DOWNS

SOLE PLATE ANCHOR SPACING SCHD

|                                      |                               |
|--------------------------------------|-------------------------------|
| ALL EXTERIOR WALL UNLESS OTHER NOTED | 42" O.C.                      |
| SHEARWALLS (SW 8d@3"/6")             | 24" O.C.                      |
| SOLE PLT @ #                         | WHEN NOTED ON PLAN SEE NOTE 2 |

1. INSTALL SOLE PLATE ANCHORS PER DETAIL 3/SO.0
2. ANCHOR SPACING SHALL BE AS NOTED. FOR EXAMPLE - SOLE PLT @ 36" = 36" ON-CENTER SPACING



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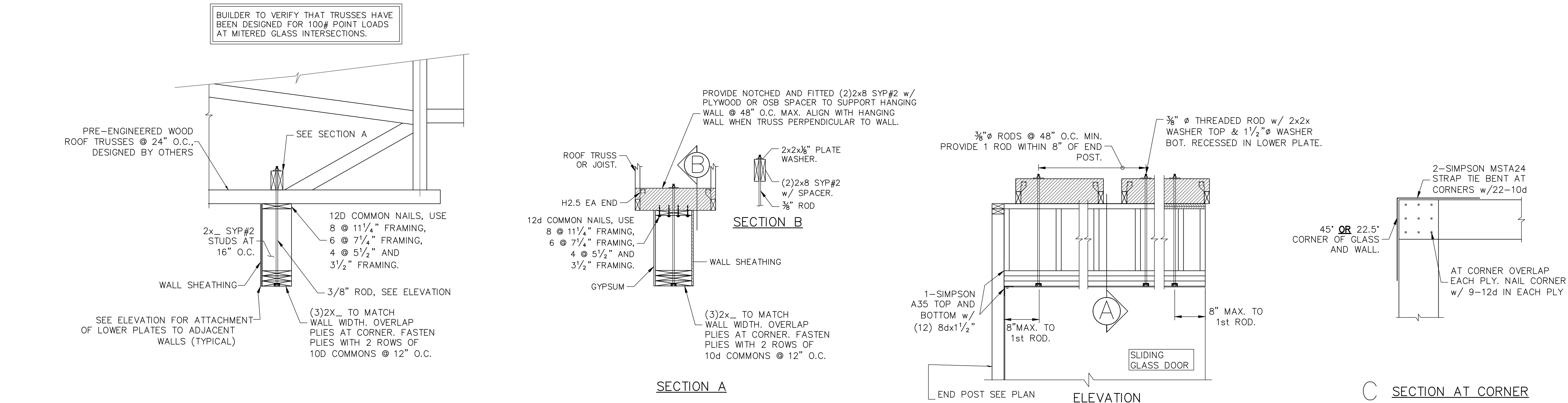
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FIRST LEVEL  
WALL  
FRAMING  
PLAN



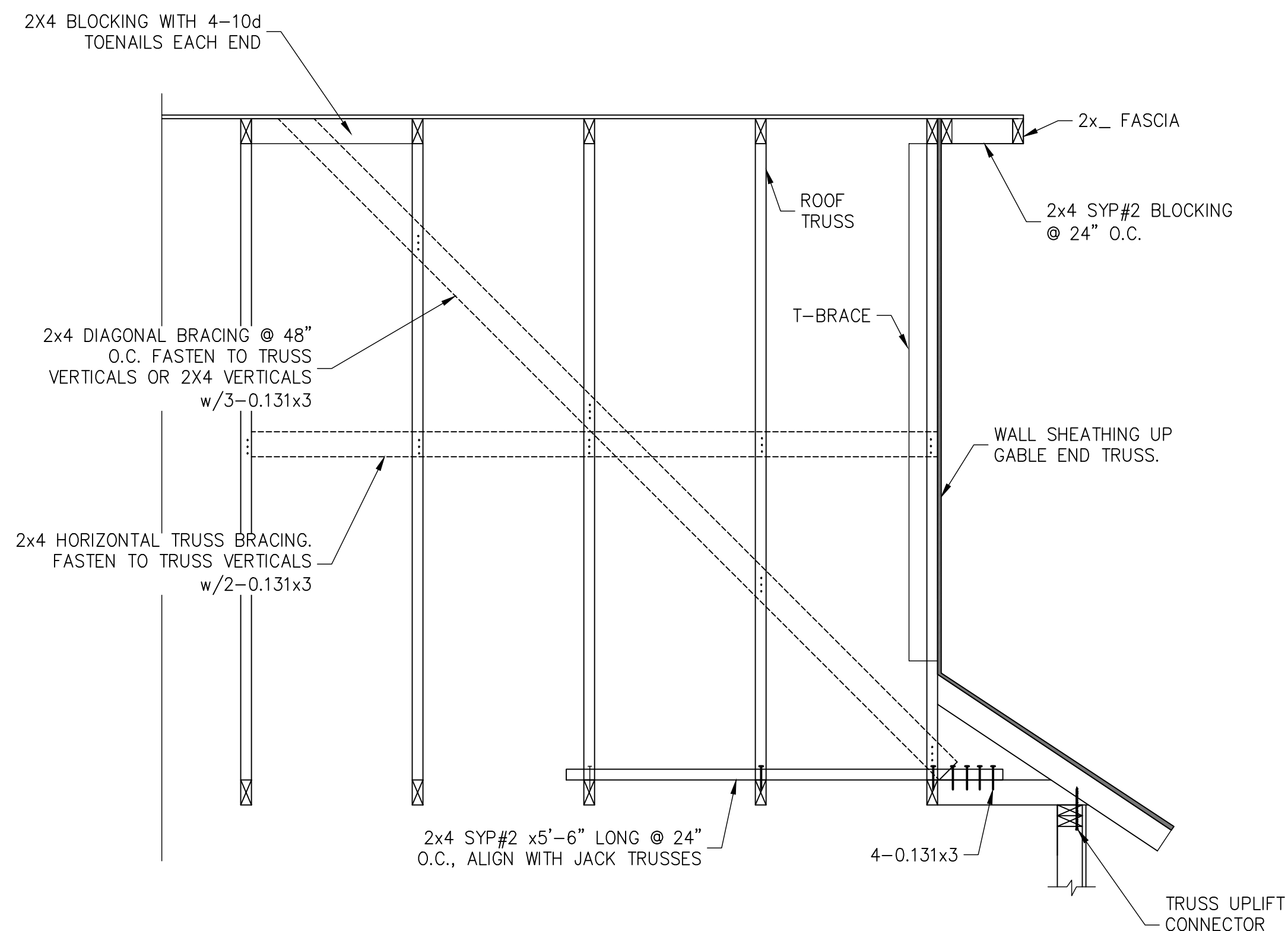




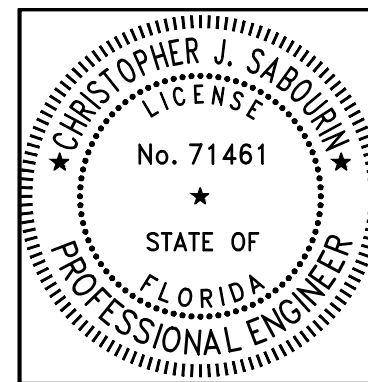


## 1 SLIDING GLASS DOOR HEADER FRAMING

SCALE: N.T.S.



## 2 GABLE END BRACE DETAIL



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MISC DETAILS

SHEET  
**S2.0**  
SHEET 7 OF 7