

GENERAL

- 1. ONLY STAMPED DRAWINGS APPROVED BY THE BUILDING DEPARTMENT ARE FINAL. NO OTHER PLANS SHALL BE USED.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
3. THE ENGINEER SHALL BE CONSULTED IN CASE OF SPECIAL CONDITIONS NOT COVERED BY DETAILS ON THESE DRAWINGS. ALL CONFLICTS MUST BE RESOLVED BEFORE PROCEEDING WITH CONSTRUCTION. NO DEVIATIONS FROM THE STRUCTURAL DETAILS WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
4. ALL CONSTRUCTIONS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE LOCAL BUILDING CODE, LATEST EDITION. ALL APPLICABLE CODES AND ORDINANCES SHALL BE OF LATEST EDITION OF THE LOCAL AND CALIFORNIA BUILDING CODE, ELECTRICAL CODE, MECHANICAL CODE, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE CODE COMPLIANCE.
5. THE CONTRACTOR IS RESPONSIBLE FOR ALL SAFETY CONSIDERATIONS AND OSHA PROVISIONS. UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS, CONTRACTOR SHALL FURNISH ADEQUATE SHORING, BRACING, ETC., AS REQUIRED TO SAFELY EXECUTE ALL WORK, AND SHALL BE FULLY RESPONSIBLE FOR SAME.
6. NECESSARY PERMITS FROM PUBLIC WORKS SHALL BE SECURED AND NECESSARY BARRICADES, PROTECTION FENCES, AND/OR CANOPIES BE ERECTED ALONG PUBLIC WAYS PRIOR TO STARTING CONSTRUCTION.
7. THE CONTRACTOR TO BID THE JOB BASED ON DETAILED SPECS AGREED BY THE OWNER ON FINISHES AND ALL ITEMS NOT COVERED ON THE DRAWINGS.
8. CONTRACTOR IS TO BID THE FULL JOB NOT LIMITED TO DRAWINGS OR TO THEIR LISTING OF ITEMS. ADVANCED WRITTEN PROVISIONS MAY BE SET UP WITH THE OWNER AS TO PARTIAL BID, REFUNDS ON EXISTING ITEMS, AND TO A REASONABLE LIMITS ON COST OVER-RUNS.
9. TYPICAL DETAILS AND GENERAL NOTES APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR UNLESS NOTED OTHERWISE (U.N.O.)
10. THE STRUCTURAL DRAWINGS ILLUSTRATE THE NEW STRUCTURAL MEMBERS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS WHICH REQUIRE SPECIAL PROVISIONS DURING THE CONSTRUCTION OF THE STRUCTURAL MEMBERS.
11. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR DEPRESSIONS, EDGE OF SLAB, OPENINGS, SLOPES, DRAINS, CURBS, PADS, EMBEDDED ITEMS, NON-BEARING PARTITIONS, ETC. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, OPENINGS, AND HANGERS FOR PIPES, DUCTS AND EQUIPMENT.
12. CONTRACTOR SHALL CAREFULLY REVIEW THE DRAWINGS TO IDENTIFY THE SCOPE OF WORK REQUIRED, VISIT THE SITE TO RELATE THE SCOPE OF WORK TO EXISTING CONDITIONS AND DETERMINE THE EXTENT TO WHICH THOSE CONDITIONS AND PHYSICAL SURROUNDINGS WILL IMPACT THE WORK.
13. EXISTING CONDITIONS AS SHOWN ON THESE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
14. ANY DEVIATION, MODIFICATION & SUBSTITUTION FROM THE APPROVED SET OF STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW/APPROVAL PRIOR TO ITS USE OR INCLUSION ON THE SHOP DRAWINGS & PRIOR TO PROCEEDING WITH THE WORK.
15. THE CONTRACTOR SHALL PROTECT ALL WORK, MATERIALS AND EQUIPMENT FROM DAMAGE AND SHALL PROVIDE PROPER STORAGE FACILITIES FOR MATERIALS AND EQUIPMENT DURING CONSTRUCTION.
16. A COPY OF ANY REQUIRED LOS ANGELES RESEARCH REPORT AND/OR CONDITIONS OF LISTING SHALL BE MADE AVAILABLE AT THE JOB SITE.
17. ATTACHMENT OF NON-STRUCTURAL COMPONENTS SPECIFIED BY OTHERS TO STRUCTURAL ELEMENTS SHALL BE SPECIFIED BY THE NON-STRUCTURAL COMPONENT DESIGNER/SPECIFIER/INSTALLER. DESIGNER OF NON-STRUCTURAL ELEMENTS SHALL AT A MINIMUM SPECIFY THE CONNECTION TO THE STRUCTURE INCLUDING BUT NOT LIMITED TO: ANY TYPE OF CONNECTING HARDWARE, WIRE, HANGERS, FASTENERS, CLIPS, UNISTRUT MEMBERS, NON STRUCTURAL ELEMENTS SHALL INCLUDE, BUT NOT LIMITED TO: MEP AND HVAC EQUIPMENT & THEIR SUPPORTING PADS, PLATFORMS, FRAMES, ETC.; DUCTWORK, PIPES, CONDUITS, ARTWORK, GRILLES, GRATING, METAL SCREENS, ELEVATOR RAILS, STONE FINISH TILES, STONE CAPS, BRICK VENEER.
18. SPECIFICATIONS RELATED TO WATERPROOFING, INCLUDING BUT NOT LIMITED TO MEMBRANES, WATERSTOPS, SEALANTS, FLASHING, VAPOR BARRIER, ARE AS SPECIFIED BY ARCHITECT/WATER PROOFING CONSULTANT, AND ARE EXCLUDED FROM ILYA ENGINEERING SCOPE.

FOUNDATIONS

- 1. CONTRACTOR SHALL CONTACT ENGINEER IF EXCAVATIONS REVEAL UNFAVORABLE CONDITIONS. THE SERVICES OF A SOILS ENGINEER AND/OR GEOLOGIST MAY BE REQUIRED.
2. ALL FOOTINGS SHALL BE FOUNDED A MIN OF 24" BELOW THE LOWEST ADJACENT GRADE AND A MINIMUM OF 12" INTO NATIVE SOIL WHICHEVER GOVERNS UNLESS NOTED OTHERWISE.
3. 1500 PSF ALLOWABLE SOIL BEARING PRESSURE WAS USED IN THE DESIGN.
4. EXCAVATION SHALL BE PROPERLY BACKFILLED. ANY FILL SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION.
5. REMOVE ABANDONED FOOTINGS, UTILITIES, ETC. WHICH INTERFERE WITH NEW CONSTRUCTION, UNLESS OTHERWISE INDICATED.
6. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION.
7. LOCATE AND PROTECT EXISTING UTILITIES TO REMAIN DURING AND/OR AFTER CONSTRUCTION.
8. REMOVE LOOSE SOIL AND STANDING WATER FROM FOUNDATION EXCAVATIONS PRIOR TO PLACING CONCRETE.
9. NOTIFY THE OWNER'S REPRESENTATIVE IF ANY BURIED STRUCTURES NOT INDICATED, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC., ARE FOUND.
10. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING AND PROTECTION OF EXISTING CONSTRUCTION.
11. IF ADVERSE SOIL CONDITIONS ARE ENCOUNTERED, A SOIL INVESTIGATION REPORT MAY BE REQUIRED.
12. SITE SOIL IS ASSUMED TO BE CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT AND SANDY SILT W/ ALLOWABLE VERTICAL BEARING OF 1.5 KSF.

TIMBER

- 1. PROVIDE GRADE-MARKED DOUGLAS FIR STRUCTURAL LUMBER COMPLYING WITH STANDARD GRADING RULE NUMBER 16 OF THE WEST COAST LUMBER INSPECTION BUREAU. REGARDLESS OF THE MOISTURE CONTENT AT THE TIME OF MANUFACTURE, THE MOISTURE CONTENT UNDER SERVICE CONDITION AT THE TIME OF ENCLOSURE OF THE STRUCTURAL MEMBERS SHALL BE:
A. 19% EXCEPT AS NOTED BELOW
B. 15% FOR WOOD JOISTS AND BEAMS WITH MORE THAN 2 FRAMED LEVELS ABOVE THEM
"S-DRY" LUMBER AND "MC15" LUMBER ARE RECOMMENDED FOR CASES "A" AND "B" ABOVE RESPECTIVELY.
ALTERNATIVELY, LUMBER WITH HIGHER MOISTURE CONTENT AT THE TIME OF MANUFACTURE THAN THE VALUES SHOWN ABOVE MAY BE UTILIZED IF APPROVED IN WRITING BY THE OWNER. IN SUCH CASE, CONTRACTOR SHALL INFORM THE OWNER AND ADVISE IF VOLUMETRIC CHANGES SUCH AS WARPING, BENDING, TWISTING, ETC. ARE EXPECTED AND HOW THESE MAY AFFECT THE QUALITY OF CONSTRUCTION.
2. ALL LUMBER SHALL BE STRESS GRADED DOUGLAS FIR NO. 2, UNLESS NOTED OTHERWISE. ALL 4x10 BEAMS OR LARGER AND 6x8 BEAMS OR LARGER SHALL BE DOUGLAS FIR NO. 1.
3. ALL LUMBER IN DIRECT CONTACT WITH CONCRETE OR MASONRY, INCLUDING BUT NOT LIMITED TO FOUNDATION SILLS, SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED DOUGLAS FIR.
4. WOOD STRUCTURAL PANELS SHALL COMPLY WITH U.S. PRODUCT STANDARDS FOR ITS TYPE IN PS 1-09 OR PS 2-10 AND BE CLASSIFIED AS EXPOSURE 1. AS A MINIMUM ALL WOOD STRUCTURAL PANELS SHALL BE APA RATED SHEATHING UNLESS NOTED OTHERWISE ON PLANS AND DETAILS. PANEL CONSTRUCTION FOR ALL WOOD STRUCTURAL PANELS SHALL BE 5 PLY PLYWOOD, EXCEPT THAT OSB IS PERMITTED FOR WALL SHEATHING AT NON FIRE TREATED PANELS. MINIMUM GRADE VENEER FOR PLYWOOD SHALL BE "CD". ALL WOOD STRUCTURAL PANELS SHALL BE BLOCKED AT UNSUPPORTED EDGES. WALL PANELS SHALL BE 15/32 INCH, PANEL INDEX (P.I.) 32/16 U.N.O. ALL WOOD STRUCTURAL PANELS MUST BE INSTALLED WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
5. NAILS:
A. ALL NAILS SHALL BE COMMON WIRE NAILS IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATION DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NDS)
B. NAILING TO BE IN ACCORDANCE WITH CBC 2013 NAILING SCHEDULE UNLESS NOTED OTHERWISE.
C. THE MINIMUM PENETRATION OF NAILS SHALL BE 10 TIMES THE NAIL SHANK DIAMETER OR 1 1/4", WHICHEVER IS GREATER. PENETRATION IS MEASURED INTO THE PIECE RECEIVING THE NAIL POINT.
D. BORED HOLES SHALL BE PERMITTED FOR ALL NAILS TO HELP PREVENT WOOD FROM SPLITTING. BORED HOLES SHALL BE MANDATORY FOR 20d NAILS OR LARGER. WHEN UTILIZED, BORED HOLES SHALL HAVE DIAMETER NOT EXCEEDING 75% OF NAIL DIAMETER.
E. EDGE DISTANCES, END DISTANCES, AND FASTENER SPACING SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD. BORED HOLES MAY BE UTILIZED TO HELP PREVENT WOOD FROM SPLITTING.
D. ALL NAILS SHALL BE GALVANIZED WHEN EXPOSED TO WEATHER.
6. WOOD SCREWS:
A. WOOD SCREWS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "NATION DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (NDS).
B. THE MINIMUM PENETRATION OF WOOD SCREWS SHALL BE 10 TIMES THE SCREW DIAMETER OR 1 1/4", WHICHEVER IS GREATER. PENETRATION IS MEASURED INTO THE PIECE RECEIVING THE NAIL POINT.
C. LEAD HOLES SHALL BE ABOUT 7/8 THE DIAMETER OF THE SCREW.
D. WOOD SCREWS SHALL BE TURNED, NOT DRIVEN, INTO LEAD HOLES. SOAP OR OTHER LUBRICANTS SHALL BE PERMITTED AS NEEDED TO FACILITATE THE INSERTION AND PREVENT DAMAGE OF THE WOOD SCREW.
E. EDGE DISTANCES, END DISTANCES, AND FASTENER SPACING SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD.
D. ALL WOOD SCREWS SHALL BE GALVANIZED WHEN EXPOSED TO WEATHER.
7. LAG SCREWS SHALL BE TURNED, NOT DRIVEN, INTO PRE DRILLED HOLES. PROVIDE LEAD HOLE 40% TO 70% OF THREADED SHANK DIAMETER AND FULL DIAMETER FOR SMOOTH SHANK PORTION.
8. ALL FRAMING HARDWARE SHALL BE STRONG-TIE CONNECTORS AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, UNLESS NOTED OTHERWISE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS AND ICC REQUIREMENTS. ALL BOLTS IN HOLD-DOWN ANCHORS SHALL BE TORQUED PER MANUFACTURERS REQUIREMENTS.
9. INSTALL HOLD DOWNS 1/4 INCH MINIMUM ABOVE THE PLATE TO ALLOW FOR TIGHTENING ANCHOR BOLT. THE HOLD DOWN SHALL BE INSTALLED TIGHT TO THE POST WITHOUT FILLERS OR DAPPING. DO NOT BEND HOLD DOWN ANCHORS. HOLD DOWN HARDWARE SHALL BE IN PLACE PRIOR TO FOUNDATION INSPECTION. HOLD DOWN SHALL BE FINGER TIGHT AND 1/2 WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. UPPER FLOOR HOLD DOWNS SHALL BE CONTINUED TO THE FOUNDATION PER TYPICAL DETAILS.
10. ALL BOLTS AND ANCHOR BOLTS IN WOOD SHALL BE A-307 STANDARD BOLTS. HOLES SHALL NOT BE MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. A STANDARD CUT WASHER (NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION - APPENDIX TABLE L6), OR METAL PLATE OR METAL STRAP OF EQUAL OR GREATER DIMENSIONS AND THICKNESS SHALL BE PROVIDED BETWEEN THE WOOD AND THE NUT.
11. DO NOT CUT, BORE, COUNTERSINK OR NOTCH WOOD MEMBERS EXCEPT WHERE SHOWN IN THE DETAILS.
12. PROVIDE DOUBLE JOISTS BENEATH ALL PARALLEL WALLS. PROVIDE SOLID BLOCKING BENEATH ALL WALLS PERPENDICULAR TO JOISTS.
13. JOISTS OR RAFTERS FRAMING FROM OPPOSITE SIDES OF BEAMS OR WALLS SHALL HAVE A LAP OF 4" OR MORE AND BE SPLICED WITH 4-16d NAILS, UNLESS NOTED OTHERWISE.
14. STRUCTURAL COMPOSITE LUMBER (SCL) OR ENGINEERED LUMBER
A. SCL MEMBERS INCLUDE I-JOISTS, PSL, LVL, LSL, BEAMS, HEADERS, POSTS, AND STUDS.
B. SCL MEMBERS SHALL BE MANUFACTURED BY A LICENSED FABRICATOR.
C. SUBSTITUTION OF PRODUCTS LISTED BELOW SHALL BE SUBMITTED TO ILYA ENGINEERING FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. INCLUDE ICC OR LARR AS APPLICABLE AND COMPARISON TABLES.
E. EXCEPT I-JOISTS AND LSL, SCL MEMBERS SHALL BE:
• MEMBER DEPTH 14" OR LESS: "RIGIDLAM" LVL MANUFACTURED BY "ROSEBURG", GRADE 2.0 (ICC-ESR 1210, LARR 25680).
• MEMBER DEPTH GREATER THAN 14": "PARALLAM" PSL MANUFACTURED BY "WEYERHAEUSER" GRADE 2.2 (ICC-ESR 1387, LARR 25202).
F. I-JOIST MEMBERS SHALL BE "TJI" JOISTS MANUFACTURED BY "WEYERHAEUSER" (ICC-ESR 1153, L.A. RR 25538).
G. LSL MEMBERS SHALL BE "TIMBERSTRAND" LSL MANUFACTURED BY "WEYERHAEUSER", GRADE 1.55E (ICC-ESR1387, LARR 25202).

MECHANICAL AND ADHESIVE ANCHORS

- 1. ADHESIVE ANCHORS AND DOWELS INSTALLED INTO CONCRETE:
A. "SET-XP" BY SIMPSON STRONG TIE (COLA RR#25744, ESR#2508)
B. "HIT-HY 200" BY HILTI, INC. (COLA RR#25964, ESR#3187)
C. "HIT-RE 500 V3" BY HILTI, INC. (COLA RR#26028, ESR#3814)
2. ADHESIVE ANCHORS AND DOWELS INSTALLED INTO GROUT-FILLED MASONRY UNITS:
A. "SET-XP" BY SIMPSON STRONG TIE (COLA RR#25965, IAPMO#265)
3. ADHESIVE ANCHORS AND DOWELS INSTALLED INTO UNREINFORCED BRICK MASONRY (URM):
A. "EPOXY-TIE ET-22" BY SIMPSON STRONG TIE, IN CITY OF LOS ANGELES ONLY (COLA RR#25120)
B. "EPOXY-TIE SET" BY SIMPSON STRONG TIE, NOT IN CITY OF LOS ANGELES (ESR#1772)
4. MECHANICAL ANCHORS INSTALLED INTO CONCRETE:
A. "STRONG BOLT2" BY SIMPSON STRONG-TIE (COLA RR#25891, ESR#3037)
B. "KWIK BOLT 3" BY HILTI, INC. NOT IN CITY OF LOS ANGELES (ESR#2302)
C. "KWIK BOLT TZ" BY HILTI, INC. (COLA RR#25701, ESR#1917)
5. MECHANICAL ANCHORS INSTALLED INTO GROUT-FILLED MASONRY UNITS:
A. "STRONG BOLT 2" BY SIMPSON STRONG-TIE (COLA RR#25936, IAPMO#240)
6. ADHESIVE ANCHORS: ASTM A36 THREADED RODS WITH ASTM A 563 GRADE A NUTS AND ANSI B18.22.1 TYPE A WASHERS, UNLESS OTHERWISE NOTED. ANCHORS DESIGNATED AS ASTM A193 GRADE B7 THREADED RODS TO USE ASTM A 563 GRADE DH HEAVY HEX NUTS AND ASTM F 436 WASHERS.
7. ADHESIVE DOWELS: ASTM A615 GRADE 60 REINFORCING STEEL.
8. ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ICC-ES REPORT AND COLA REPORT AND MANUFACTURERS RECOMMENDATIONS.
9. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM EMBEDMENT OF ANCHORS PER ICC-ES REPORT, COLA REPORTS & MANUFACTURERS RECOMMENDATIONS.
10. CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL OR ADHESIVE ANCHORS. AT CONTRACTOR OPTION, OVERSIZED HOLES AND WELDED PLATE WASHERS CAN BE USED IN LIEU OF STANDARD DIAMETER HOLES. SIZE & WELD
11. PRIOR TO ALL DRILLING OR CORING, THE CONTRACTOR SHALL (1) VERIFY THE EXISTING CONCRETE OR MASONRY THICKNESS TO PREVENT DAMAGE TO THE OPPOSITE FACE OF CONCRETE AND MAINTAIN 1-1/2" CLEAR COVER U.N.O., AND (2) IDENTIFY EXISTING REINFORCING LOCATIONS BY PACHOMETER, PROBING, CHIPPING, ETC. TO AVOID DAMAGE EXISTING REINFORCING.
12. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
13. ANCHORS SHALL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY. TEST 20% OF ALL ANCHORS.
14. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
15. APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION ON THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, TORQUE WRENCH, OR CALIBRATED SPRING-LOADING DEVICES, ETC.
16. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE OR GROUT HAVING A MINIMUM AGE OF 21 DAYS AT THE TIME OF ANCHOR INSTALLATION
17. FOR EXTERIOR AND FOR EXPOSED APPLICATIONS PROVIDE HOT DIP GALVANIZED OR STAINLESS STEEL ANCHORS.

CONCRETE

- 1. CONCRETE TO BE 3000 PSI @ 28 DAYS FOR PILES, FOOTING, GRADE BEAMS, STRUCTURAL SLAB AND FRAMES. DEPUTY INSPECTOR REQUIRED OTHERWISE 2500, CALL OUTS ON PLANS & DETAILS SUPERCEDE THESE VALUES.
2. CEMENT TO BE TESTED TYPE I PORTLAND CEMENT, ASTM-C-150. CEMENT TO CONFORM TO THE CBC SECTION 1903A ASTM C 150 FOR PORTLAND CEMENT AND CBC STANDARDS 21A-11 AND 21A-14. USE TYPE V CEMENT.
3. AGGREGATES TO BE MAXIMUM SIZE 1.5" FOR FOOTINGS, 3/4" FOR PEA-GRAVEL AND 1" FOR OTHER WORK, ASTM-C-33.
4. ONLY ONE GRADE OF CONCRETE SHALL BE PERMITTED ON THE JOB SITE AT ANY ONE TIME.
5. CURING SHALL BE MAINTAINED ABOVE 40 DEGREES F. INITIAL CURING TO BE KEPT CONTINUOUSLY MOIST FOR 24 HOURS AFTER PLACEMENT OF GUNITE. THEREAFTER FOG SPRAY FOR ADDITIONAL 14 DAYS. AS ALTERNATIVE USE APPROVED MOISTURE RETAINING COVER FOR MEMBRANE.
6. REINFORCING STEEL TO BE ASTM-A615-40 FOR BILLET STEEL, INTERMEDIATE GRADE, CLEAN AND UNRUSTED. ASTM-A615-60 FOR STRUCTURAL SLABS, BEAMS AND COLUMNS. LAPS AT SPLICES AND POUR LINES TO BE 40 DIAMETERS OR 24" MINIMUM EXCEPT AS NOTED. 72 DIAMETERS @ MAXIMUM TENSION ZONE AND FULL REBAR STRESS. O.K. TO INTERPOLATE.
7. PROVIDE MECHANICAL DEVICES TO HOLD STEEL IN PLACE AND TO MAINTAIN THE REQUIRED COVER.
8. WELDED WIRE FABRIC: ASTM-A185. LAP 6" ALL EDGES.
9. REMOVAL OF FORMS: MINIMUM 14 DAYS FOR HORIZONTAL SURFACES 4 DAYS FOR VERTICAL SURFACES.

STATEMENT OF SPECIAL INSPECTION

- 1. CONTINUOUS AND PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE WORK AS DESCRIBED IN CBC 2022 CHAPTER 17. (SEE INSPECTION SCHEDULE BELOW. ONLY CHECKED ITEMS ARE REQUIRED.) AND QUALITY ASSURANCE PROGRAM OF AISC 360 AND 341 (STEEL), SDI QA/QC (COLD FORMED STEEL DECK), TABLE 1705.2.3 (OPEN-WEB STEEL JOIST AND JOIST GIRDBERS), 1705.3 (CONCRETE), TMS402/ACI 530/ASCE 5-13 CH.3 AND TMS602/ACI 503.1/ASCE 6 1.4B, 1.6 (MASONRY), TABLES 1705.6 (SOILS), 1705.7 (DRIVEN DEEP FOUNDATION), AND 1705.8 (CAST IN PLACE DEEP FOUNDATIONS).
2. APPROVAL BY THE INSPECTOR DOES NOT MEAN APPROVAL OF FAILURE TO COMPLY WITH THE PLANS OR SPECIFICATIONS. ANY DETAIL THAT FAILS TO BE CLEAR OR IS AMBIGUOUS MUST BE REFERRED TO THE STRUCTURAL ENGINEER FOR INTERPRETATION OR CLARIFICATION.
3. FOR VERIFICATION AND INSPECTION OF SOILS SEE SOILS REPORT.
4. CONTINUOUS SPECIAL INSPECTION PER AWS D1.1 IS REQUIRED FOR ALL STRUCTURAL STEEL WELDING, EXCEPT FOR SINGLE PASS FILLET WELDS NOT EXCEEDING 1/2" IN SIZE. WELDING INSPECTORS SHALL BE AWS Q.C.-1 CERTIFIED.
5. STRUCTURAL WOOD. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS, AND HOLD-DOWNS. EXCEPTION: SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM, WHERE THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER (O.C.). INSPECTIONS SHALL BE PERFORMED BEFORE COVERING.
6. CONTRACTORS RESPONSIBLE FOR CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THIS STATEMENT OF SPECIAL INSPECTION SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE LABS INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH A SYSTEM OR COMPONENT PER SEC 1704.4.
7. WHERE FABRICATION OF MEMBERS AND ASSEMBLIES IS PERFORMED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTION OF THE FABRICATED ITEMS SHALL BE REQUIRED BY THIS SECTION, UNLESS THE FABRICATOR IS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE OF VERIFYING APPROVAL OF FABRICATOR.

STRUCTURAL OBSERVATION PROGRAM AND DESIGNATION OF THE STRUCTURAL OBSERVER
PROJECT ADDRESS: 7705 Norton Ave West Hollywood, CA 90046 PERMIT APPL. NO.:
Description of Work:
Owner: Architect: Engineer: SAEID MOHAMMADI
STRUCTURAL OBSERVATION (only checked items are required)
Firm or individual to be responsible for the Structural Observation:
Name: SAEID MOHAMMADI Phone: (818) 468-9920 Calif. Registration: C82330
FOUNDATION WALL FRAME DIAPHRAGM
[X] Footing, Stem, Walls, Piers [ ] Concrete [ ] Steel Moment Frame [ ] Concrete
[ ] Mat Foundation [ ] Masonry [ ] Steel Braced Frame [ ] Steel Deck
[ ] Caisson, Piles, Grade Beams [X] Wood [ ] Concrete Moment Frame [X] Wood
[ ] Stepping/Retaining Foundation [ ] Others [ ] Masonry Wall Frame [ ] Others
[ ] Others [X] Hardy Frame
DECLARATION BY OWNER:
I, the Owner of the project, declare that the above listed firm or individual is hired to be the Structural Observer.
Signature: S. Mohammed Date: 3/3/2023
DECLARATION BY ARCHITECT OR ENGINEER OF RECORD (required if Structural Observer is different from the Architect or Engineer of Record)
I, the Architect or Engineer of record for the project, declare that the above listed firm or individual is designated by me to be responsible for the Structural Observation.
Signature: S. Mohammed License No. C82330 Date: 3/3/2023

DESIGN LOADS & FACTORS:

- BUILDING SHALL COMPLY WITH THE ASCE 7-16 BUILDING CODE.
1. VERTICAL LIVE LOADS:
A. ROOF 20 PSF
B. FLOOR 40 PSF
C. DECK 60 PSF
2. VERTICAL DEAD LOADS:
A. ROOF 15 PSF
B. FLOOR 15 PSF
C. DECK 15 PSF
3. LATERAL LOADS:
A. WIND: BASIC WIND SPEED: 110 MPH WIND IMPORTANCE FACTOR, Iw: 1.0 EXPOSURE TYPE: C
B. SEISMIC: SITE CLASS: D SEISMIC DESIGN CATEGORY: D RISK CATEGORY: II SEISMIC IMPORTANCE FACTOR, Ie: 1.0 SS=2.016g S1=0.755g FA=1.2 FV=1.70 SDS=1.68g SD1=0.75g R=6.5 CS=0.259 EQUIVALENT STATIC FORCE METHOD USED FOR DESIGN. V=CS x W

Table with 2 columns: REVISIONS, DATE. Includes a grid for tracking changes.

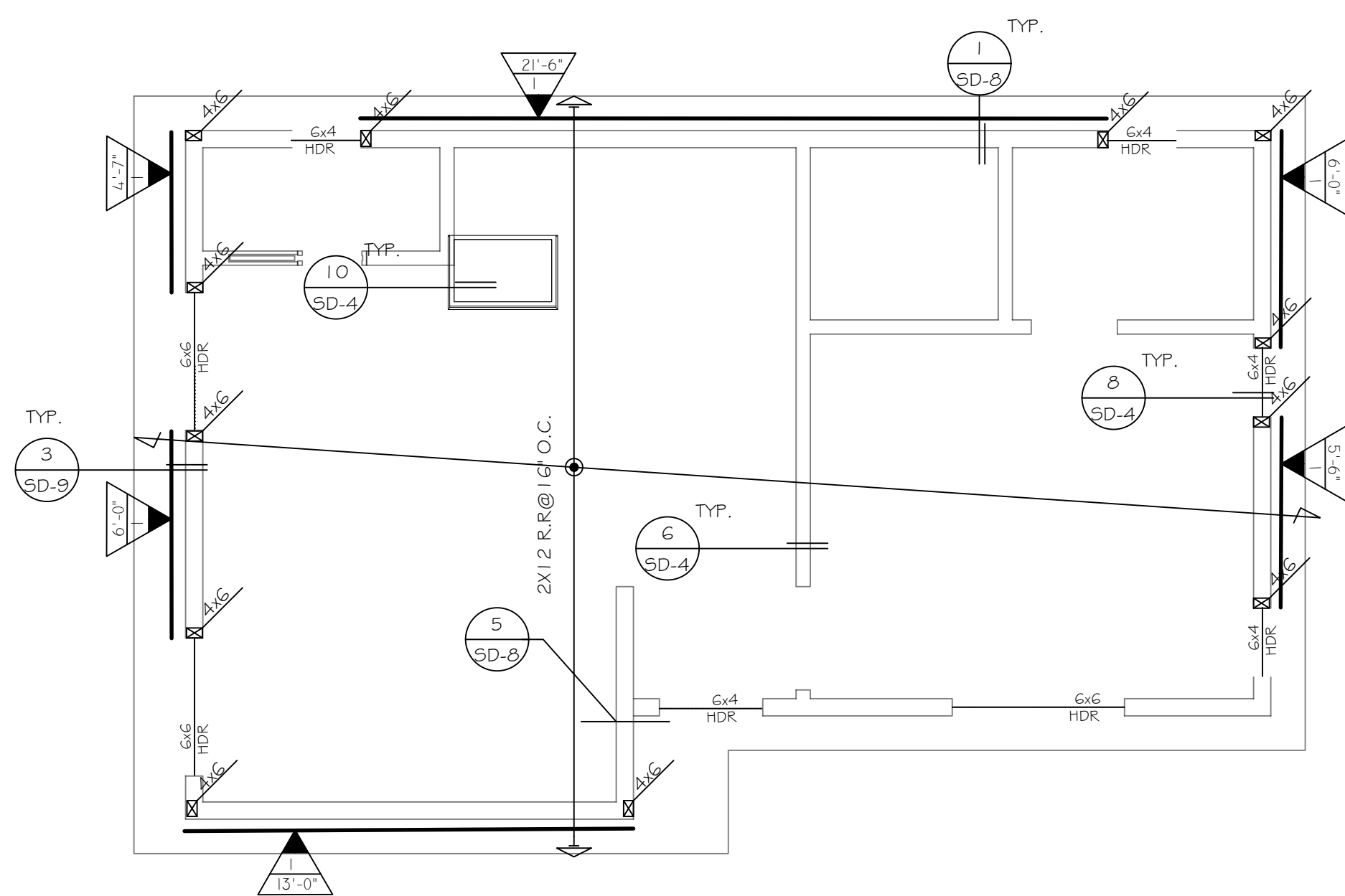
7705 Norton Ave West Hollywood, CA 90046



GENERAL NOTES

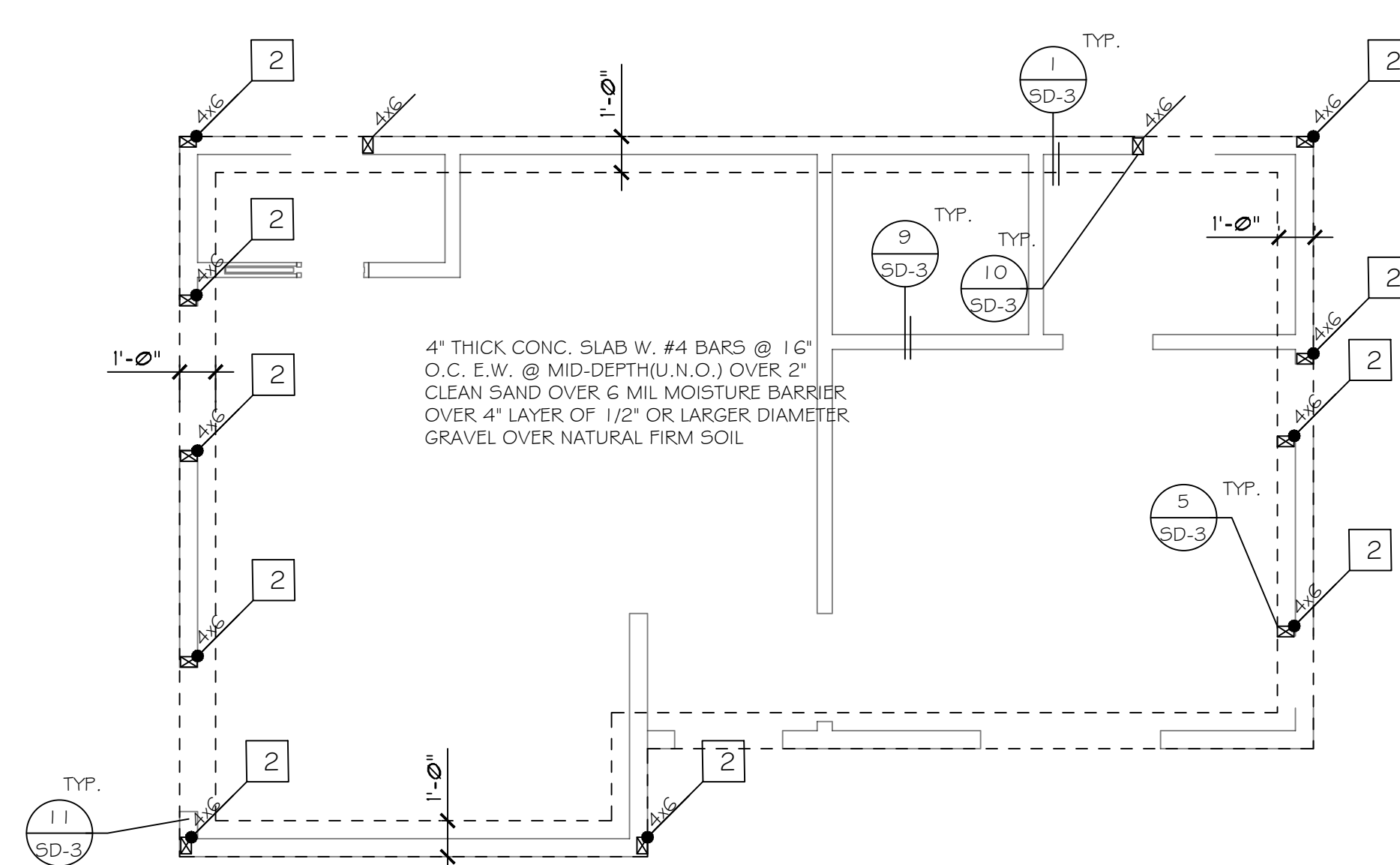
NAME: DATE: 3/3/23 SCALE: CHECKED: SHEET: S-1 1 of 15 SHEETS JOB NO 2211-547





**ROOF FRAMING PLAN**

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



**FOUNDATION PLAN**

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

**FRAMING NOTES:**

- FOR GENERAL NOTES AND TYPICAL DETAILS SEE SHEETS S-1. GENERAL NOTES & TYPICAL DETAILS APPLY TO ALL PARTS OF THE WORK EXCEPT WHERE SPECIFICALLY DETAILED OR U.N.O.
- U.N.O ALL EXTERIOR STUD SIZES SHALL BE 2x6 @ 16" O.C. AND 3x6 FOR EXTERIOR SHEAR WALLS TYPE3 THROUGH 7, AND ALL INTERIOR STUD SHALL BE 2x4 @ 16" O.C. AND 3x4 FOR INTERIOR SHEAR WALLS TYPE3 THROUGH 7 AT A MINIMUM (REFER TO ARCH'L DRAWINGS).
- ALL THE SILL PLATE SHOULD BE 2X , AND TOP PLATE 2-2X , WHERE SILL PLATES AND TOP PLATES RECEIVE PANEL EDGE NAIL TIP IN SHEAR WALLS TYPE 3 TO TYPE 7 SHOULD BE 3X
- ROOF SHEATHING CONSTRUCTION AT SLOPED AND PITCHED ROOFS: WOOD STRUCTURAL PANEL, 1/2" CD APA RATED PLYWOOD SHEATHING, EXPOSURE 1, SPAN RATING 32/16, NAILED WITH 8d COMMONS SPACED AT 6" O.C. ALONG ALL BOUNDARIES (B.N.) AND CONTINUOUS ADJOINING PANEL EDGES, AND 6" O.C. ALONG OTHER PANEL EDGES (E.N.) AND 12" O.C. ALONG INTERMEDIATE SUPPORTS (FIELD) (F.N.), BLOCK ALL PANEL EDGES. SEE "TYPICAL SHEATHING ASSEMBLY" PER TYPICAL DETAILS SHEETS.
- FLOOR AND DECK SHEATHING CONSTRUCTION: WOOD STRUCTURAL PANEL, 23/32" CD APA RATED PLYWOOD SHEATHING, EXPOSURE 1, SPAN RATING 48/24, NAILED WITH 10d COMMONS SPACED AT 6" O.C. ALONG ALL BOUNDARIES (B.N.) AND CONTINUOUS ADJOINING PANEL EDGES, AND 6" O.C. ALONG OTHER PANEL EDGES (E.N.) AND 10" O.C. ALONG INTERMEDIATE SUPPORTS (FIELD) (F.N.), BLOCK ALL PANEL EDGES, GLUE WOOD STRUCTURAL PANELS TO JOISTS AND BLK'G. SEE "TYPICAL SHEATHING ASSEMBLY" PER TYPICAL DETAILS SHEETS.
- U.N.O. MINIMUM POST SIZE SHALL BE 4x DEPTH OF WALL.
- VERIFY ALL DIMENSIONS, ELEVATIONS, SLAB EDGES, SLAB . . DEPRESSIONS, SLAB OPENINGS, CURBS, FOOTING, PENETRATIONS, WALL OPENINGS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL & CIVIL DRAWINGS.
- FOR ALL DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.
- FOR MINIMUM POST SIZE AT ENDS OF SHEAR WALL, REFER TO HOLDOWN SCHEDULE ON TYPICAL DETAILS.
- ALL BOLTS IN WOOD SHALL BE A-307 STANDARD BOLTS. ALL BOLT HOLES SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED. PROVIDE PLATE WASHERS AT ALL BOLTS. INSPECTOR TO VERIFY.
- HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS; AND HOLD-DOWNS SHALL BE FINGER TIGHT AND 1/2" WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS ON THE POST ON THE OPPOSITE SIDE OF THE ANCHORAGE DEVICE. PLATE SHALL BE A MINIMUM OF 0.299 INCH BY 3 INCHES BY 3 INCHES
- PLYWOOD WALL SHEATHING: AT ALL EXTERIOR WALLS OTHER THAN SHEAR WALLS, 1/2" CDX PLYWOOD NAILED WITH 8d COMMONS SPACED AT 6" O.C. ALONG ALL PANEL EDGES (E.N.) AND 12" O.C. ALONG INTERMEDIATE SUPPORTS (FIELD) (F.N.)
- FRAMING CONTRACTOR TO COORDINATE LAYOUT WITH ALL APPLICABLE TRADES INCLUDING PLUMBING, MECHANICAL AND ELECTRICAL.
- SILL PLATE ANCHOR BOLTS AT WALLS OTHER THAN SHEAR WALLS: 5/8" Ø WITH 9" MIN. EMBEDMENT, INSTALLED WITH PLATE WASHERS, SPACED AT 4'-0" O.C. FOR ALL WALLS, PROVIDE MINIMUM TWO BOLTS PER PIECE OF SILL PLATE & ONE LOCATED WITHIN 12" AND NOT LESS THAN 7 BOLT DIAMETER OR 4 3/8" OF EACH END OF EACH SILL PLATE.
- FACE GRAIN OF PLYWOOD SHALL BE PERPENDICULAR TO SUPPORTS. PLYWOOD SPANS SHALL CONFORM WITH TABLE 2304.7.
- PROVIDE DOUBLE JOISTS BENEATH ALL PARALLEL WALLS. PROVIDE SOLID BLOCK BENEATH ALL WALLS PERPENDICULAR TO JOISTS. SEE "FRAMING AT NON BEARING WALLS" PER TYPICAL DETAILS SHEETS.
- PROVIDE WALL SHEATHING AT ALL EXTERIOR WALLS OTHER THAN SHEAR WALLS AS FOLLOWS: WOOD STRUCTURAL PANEL, 15/32" CD APA RATED PLYWOOD OR OSB SHEATHING, EXPOSURE 1, SPAN RATING 32/16, NAILED WITH 8d COMMONS SPACED AT 6" O.C. ALONG ALL PANEL EDGES (E.N.) AND 12" O.C. ALONG INTERMEDIATE SUPPORTS (FIELD) (F.N.)

|  |  |  |   |
|--|--|--|---|
|  | INDICATES WOOD WALLS UNLESS OTHERWISE SPECIFIED ON THE FRAMING PLAN OR WALL STUD SCHEDULE PROVIDE:<br>• EXTERIOR WALLS: S.A.D. OR 2x6 @ 16" O.C., WHICHEVER IS GREATER<br>• INTERIOR WALLS: S.A.D. OR 2x4 @ 16" O.C., WHICHEVER IS GREATER                                     |  | CONT. BLOCKING AND DRAG STRAP PER TYP. DETAILS  |
|  | INDICATES WOOD POST UNLESS OTHERWISE SPECIFIED ON THE FRAMING PLAN THE POST SIZE SHALL BE THE GREATER OF THE FOLLOWING:<br>• MIN. SIZE PER POST SCHEDULE WHERE PRESENT<br>• 4x DEPTH OF WALL<br>• SIZE INDICATED IN "HOLDOWN SCHEDULE" (FOR POSTS AT ENDS OF SHEAR WALLS ONLY) |  | INDICATES KING POST   |
|  | MINIMUM LENGTH INDICATES WOOD SHEATHED SHEAR WALL(S-7) TYPE PER SHEAR WALL SCHEDULE UNDER TYP. DETAILS   |  | INDICATES HSS   |
|  | INDICATES HOLDOWN TYPE PER TYPICAL DETAILS   |  | INDICATES STEEL COLUMN ABOVE  |
|  | INDICATES EXTENT OF WOOD JOIST   |  | INDICATES RIGID STEEL BEAM CONN. PER TYP. DETAIL  |
|  | INDICATES DIRECTION OF WOOD JOIST  |  | INDICATES EXTERIOR DECKS  |
|  | MEMBER CALCULATION REFERENCE   | MEMBER PREFIXES R = ROOF G = RIDGE C = CEILING<br>F = FLOOR H = HIP D = DECK |   |
|  |  |  | MINIMUM LENGTH PERFORATED SHEAR WALL SYMBOL TYPE PER SHEAR WALL SCHEDULE UNDER TYP.   |
|  |  |  | POST OR POINT LOAD ABOVE. PROVIDE BLOCKING IN FLOOR SYSTEM TO MATCH POST OR MULTI-STUD BEARING ABOVE (NOT REQUIRED IF FLUSH BEAM IN FLOOR OCCURS) |

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| NO. | DATE | REVISIONS |
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West Hollywood, CA 90046

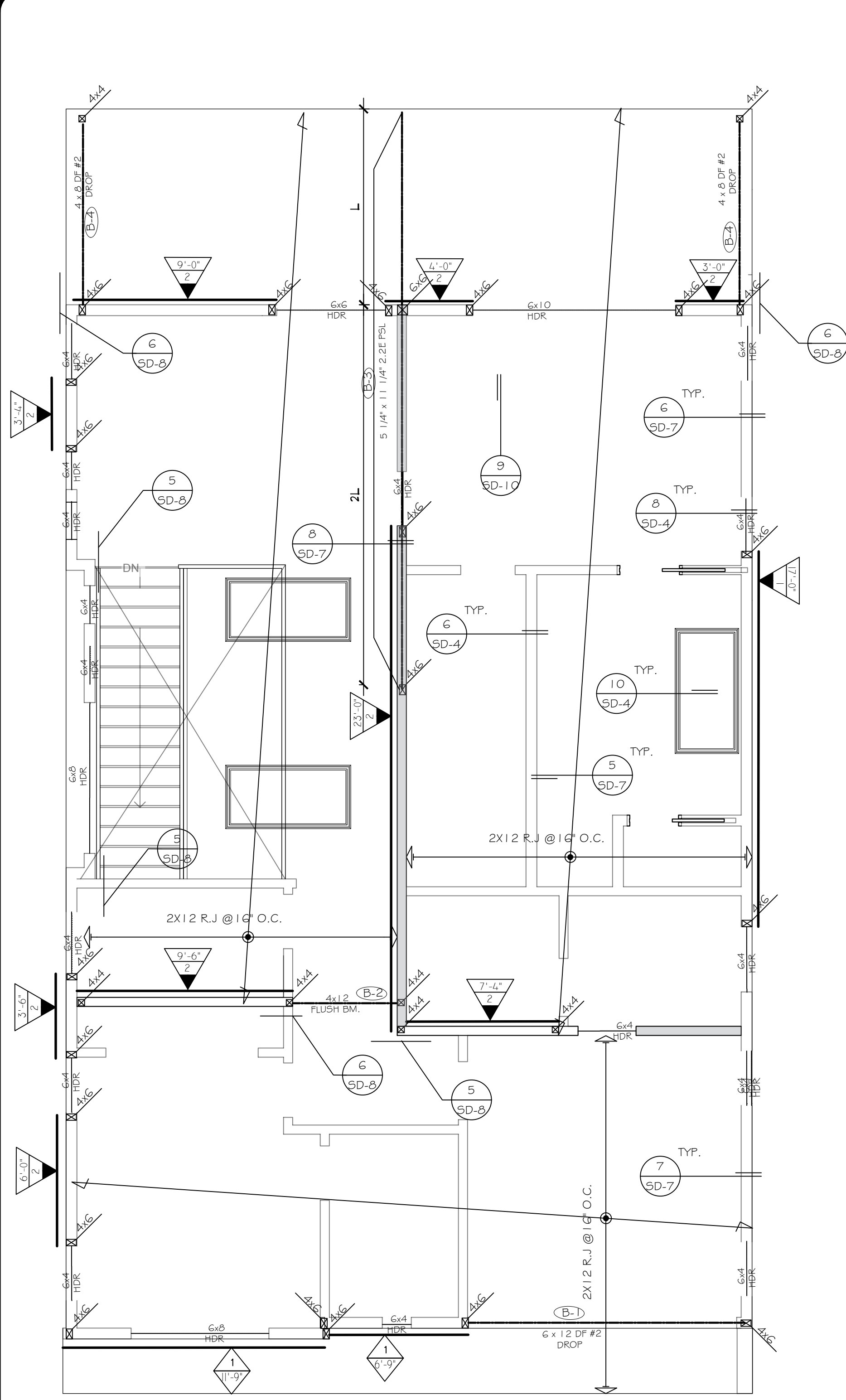
**ILYA**  
ENGINEERING & DEVELOPMENT  
STRUCTURAL ARCHITECTURAL  
CIVIL, AND CONSTRUCTION  
SERVICES  
17412 VENTURA BLVD. #21  
ENCINO, CALIFORNIA 91316  
TEL: (818) 468-9920  
WEB: ILYAENGINEERING.COM  
SAM@ILYAENGINEERING.COM

REGISTERED PROFESSIONAL ENGINEER  
No. C62330  
Exp. 03-31-2024  
CIVIL  
STATE OF CALIFORNIA

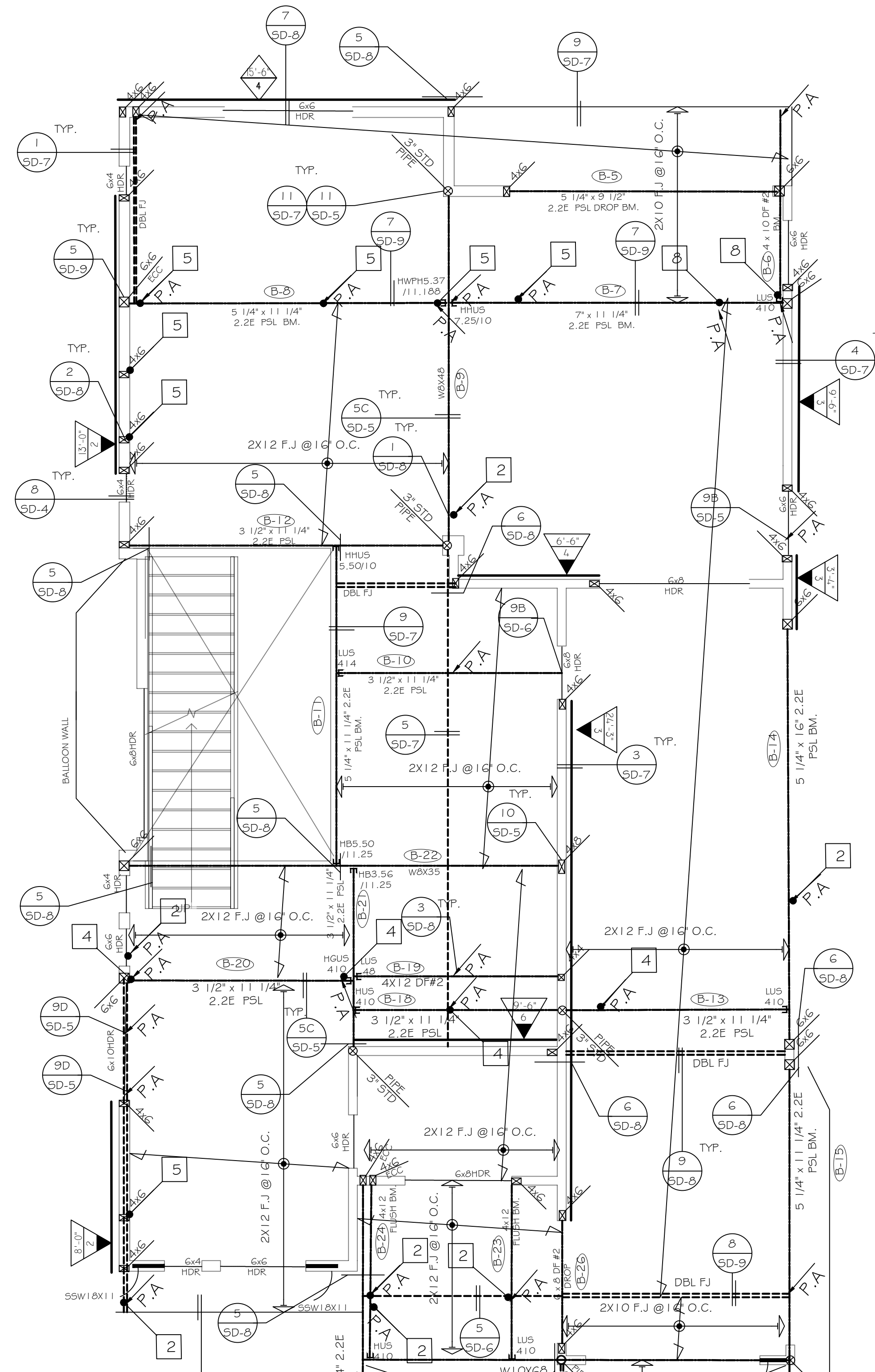
ADU ROOF FRAMING &  
FOUNDATION PLANS

|                                   |
|-----------------------------------|
| NAME                              |
| DATE<br>3/3/23                    |
| SCALE                             |
| CHECKED                           |
| SHEET<br><b>S-2</b>               |
| 2 OF 15 SHEETS<br>JOB No 2211-547 |

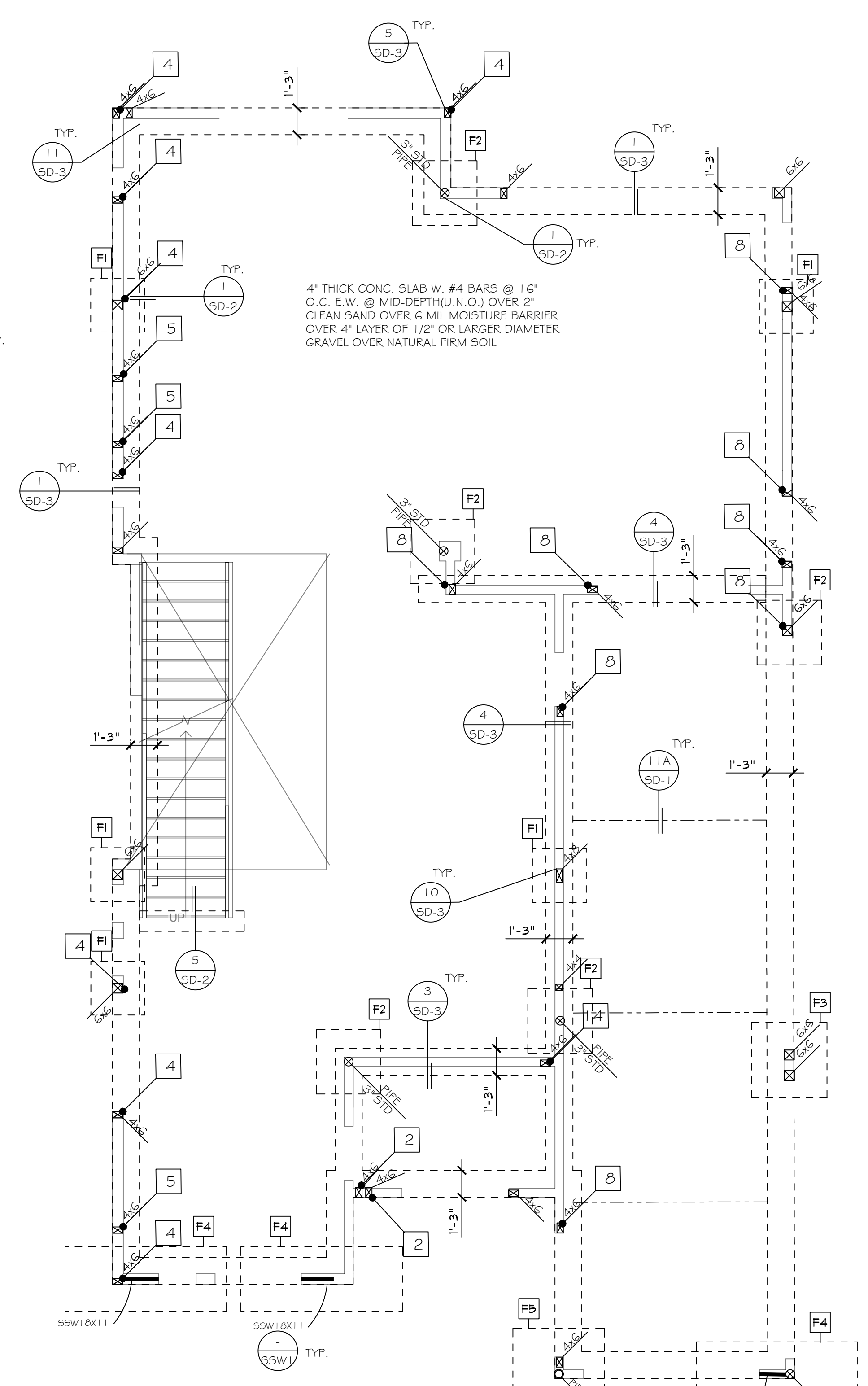




**ROOF FRAMING PLAN**  
SCALE: 1/4"=1'-0"



**FLOOR FRAMING PLAN**  
SCALE: 1/4"=1'-0"



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

|  |   |  |  |  |  |  |  |  |                                |  |   |  |   |  |                         |
|--|---|--|--|--|--|--|--|--|--------------------------------|--|---|--|---|--|-------------------------|
|  | INDICATES WOOD WALLS UNLESS OTHERWISE SPECIFIED ON THE FRAMING PLAN OR WALL STUD SCHEDULE PROVIDE:<br>• EXTERIOR WALLS: S.A.D. OR 2x6 @ 16" O.C., WHICHEVER IS GREATER<br>• INTERIOR WALLS: S.A.D. OR 2x4 @ 16" O.C., WHICHEVER IS GREATER  |  | INDICATES WOOD POST UNLESS OTHERWISE SPECIFIED ON THE FRAMING PLAN THE POST SIZE SHALL BE THE GREATER OF THE FOLLOWING:<br>• MIN. SIZE PER POST SCHEDULE WHERE PRESENT<br>• 4x DEPTH OF WALL<br>• SIZE INDICATED IN "HOLDOWN SCHEDULE" (FOR POSTS AT ENDS OF SHEAR WALLS ONLY) |  | MINIMUM LENGTH INDICATES WOOD SHEATHED SHEAR WALL(S-7) TYPE PER SHEAR WALL SCHEDULE UNDER TYP. DETAILS |  | INDICATES HOLDOWN TYPE PER TYPICAL DETAILS       |  | INDICATES EXTENT OF WOOD JOIST |  | INDICATES DIRECTION OF WOOD JOIST   |  | MEMBER CALCULATION REFERENCE  |  |                         |
|  | INDICATES WOOD JOIST UNLESS OTHERWISE SPECIFIED ON THE FRAMING PLAN OR WOOD JOIST SCHEDULE PROVIDE:<br>• EXTERIOR WALLS: S.A.D. OR 2x6 @ 16" O.C., WHICHEVER IS GREATER<br>• INTERIOR WALLS: S.A.D. OR 2x4 @ 16" O.C., WHICHEVER IS GREATER |  | INDICATES KING POST  |  | INDICATES STEEL COLUMN ABOVE   |  | INDICATES RIGID STEEL BEAM CONN. PER TYP. DETAIL |  | INDICATES EXTERIOR DECKS       |  | R = ROOF<br>F = FLOOR   |  | G = RIDGE<br>H = HIP  |  | C = CEILING<br>D = DECK |
|  | CONT. BLOCKING AND DRAG STRAP PER TYP. DETAILS  |  | INDICATES OPENING IN DIAPHRAGM/SLAB  |  | INDICATES CHANGE IN FLOOR ELEVATION  |  | INDICATES WOOD POST ABOVE                        |  | INDICATES HSS                  |  | MINIMUM LENGTH PERFORATED SHEAR WALL SYMBOL TYPE PER SHEAR WALL SCHEDULE UNDER TYP. |  | POST OR POINT LOAD ABOVE. PROVIDE BLOCKING IN FLOOR SYSTEM TO MATCH POST OR MULTI-STUD BEARING ABOVE (NOT REQUIRED IF FLUSH BEAM IN FLOOR OCCURS) |  |                         |

FOUNDATION SIZE MAY BE LOCALLY INCREASED AT THE LOCATION OF THE HOLDOWNS PER DETAIL 5/SD-3

| FOUNDATION SCHEDULE |   |
|---------------------|---|
| F1                  | 2'-6"X 2'-6" X 24" W/ 3#4 EA.WAY AT BOTTOM                                      |
| F2                  | 3'-0"X 3'-0" X 24" W/ 3#5 EA.WAY AT BOTTOM                                      |
| F3                  | 3'-6"X 3'-6" X 24" W/ 4#5 EA.WAY AT BOTTOM                                      |
| F4                  | 3'-0"X 7'-6" X 24" W/ 4#6 LONG DIR. @ T.8B. #4@8" O.C. SHORT DIR. @ TOP 8BOTTOM |
| F5                  | 4'-3"X 4'-3" X 24" W/ 5#5 EA.WAY AT BOTTOM                                      |

| NO. | DATE | REVISIONS |
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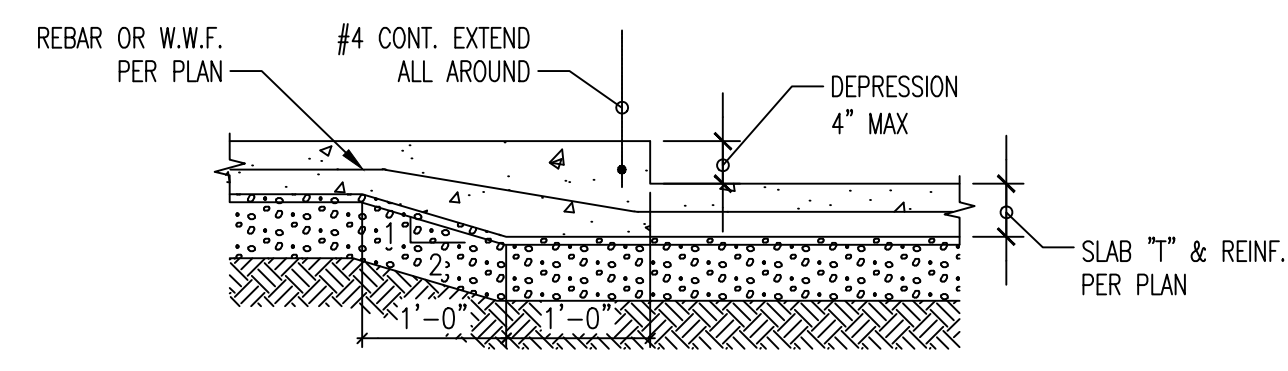
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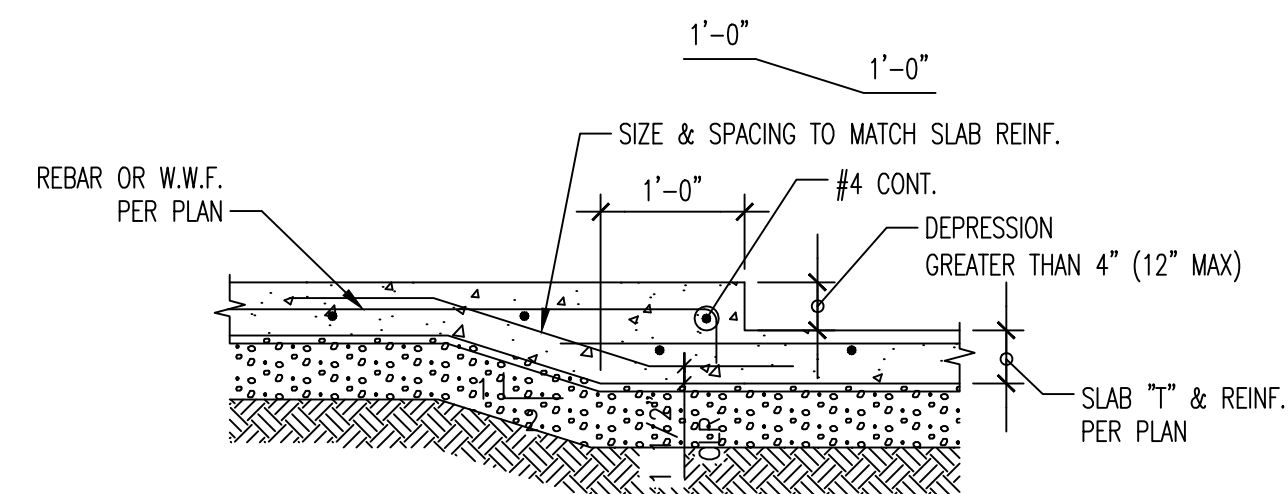
MAIN HOUSE ROOF/  
FLOOR FRAMING  
&  
FOUNDATION PLANS

|                 |        |
|-----------------|--------|
| NAME            |        |
| DATE            | 3/3/23 |
| SCALE           |        |
| CHECKED         |        |
| SHEET           | S-3    |
| 3 of 15 SHEETS  |        |
| JOB No 2211-547 |        |

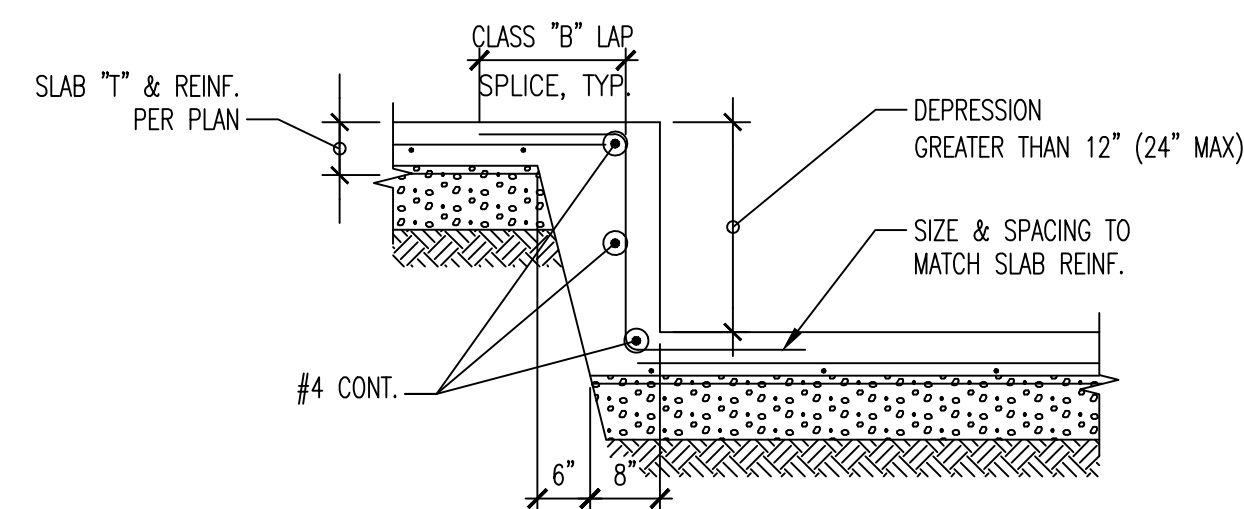




DEPRESSION  $\leq 4"$  (A)

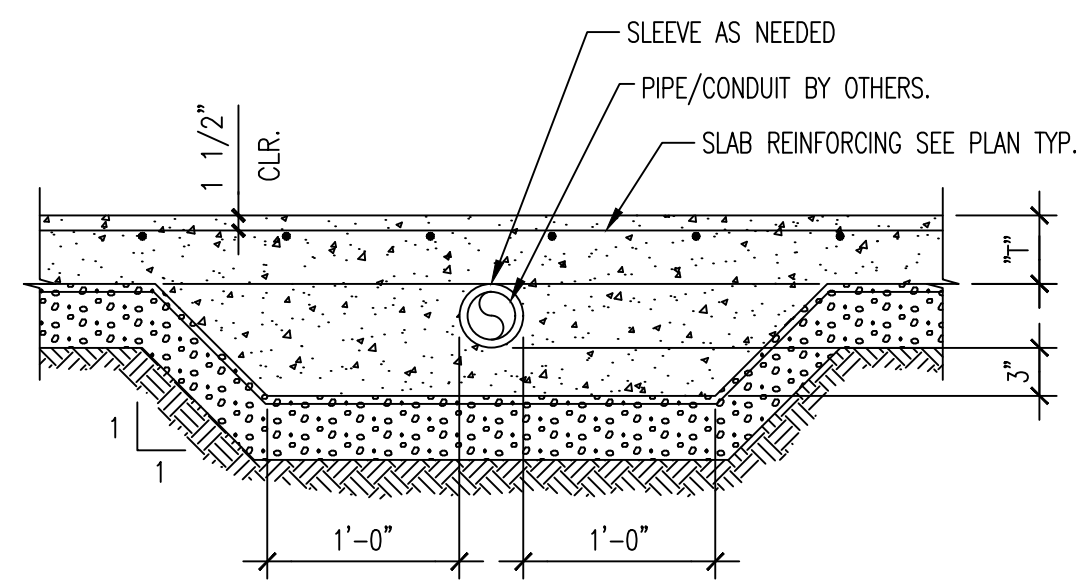


DEPRESSION  $> 4"$  &  $\leq 12"$  (B)



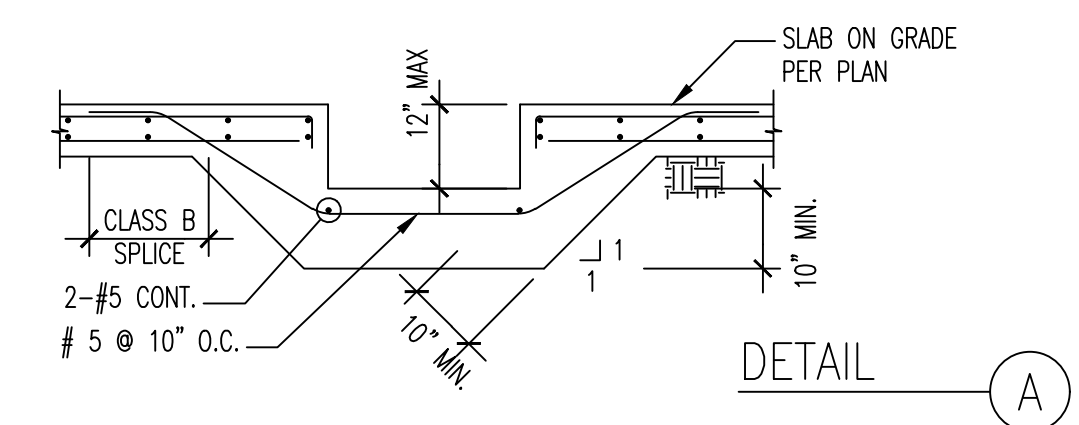
DEPRESSION  $> 12"$  &  $\leq 24"$  (C)

5 SLAB ON GRADE DEPRESSION

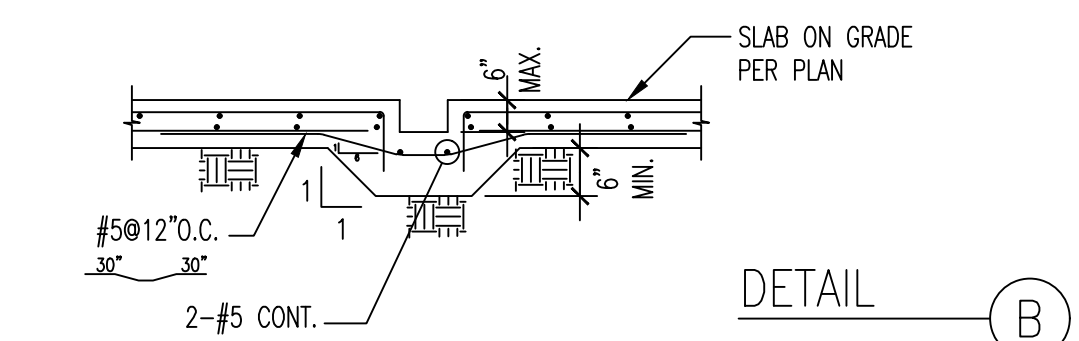


NOTES:  
1. SEE PLAN FOR CONCRETE SLAB ON GRADE THICKNESS, "T".

2 TYP. PIPE THRU SLAB ON GRADE

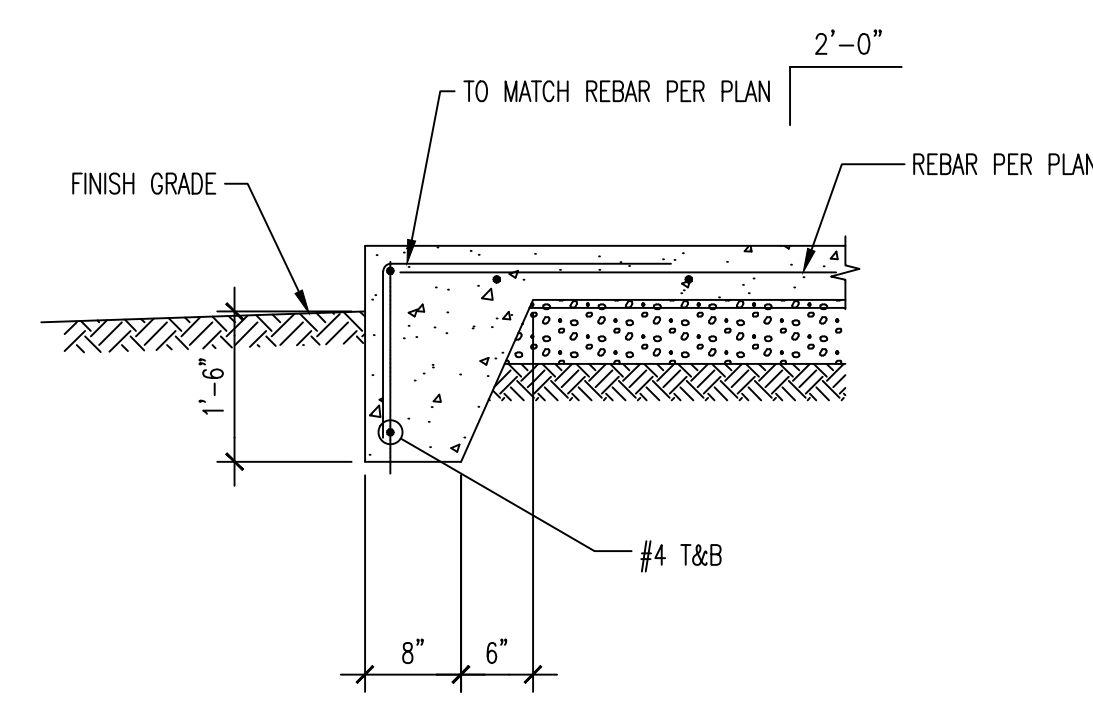


DETAIL (A)

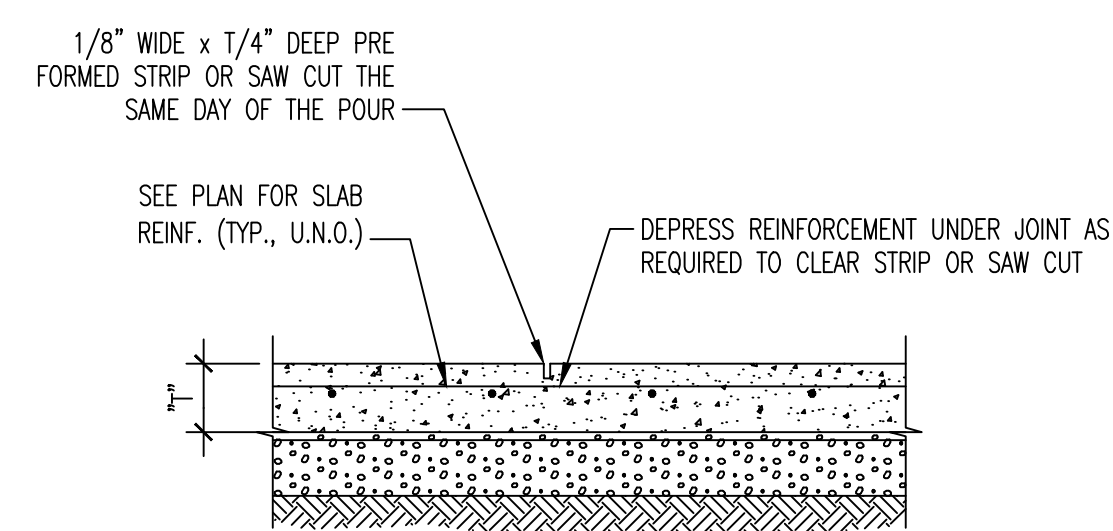


DETAIL (B)

6 TRENCH DRAIN DETAIL

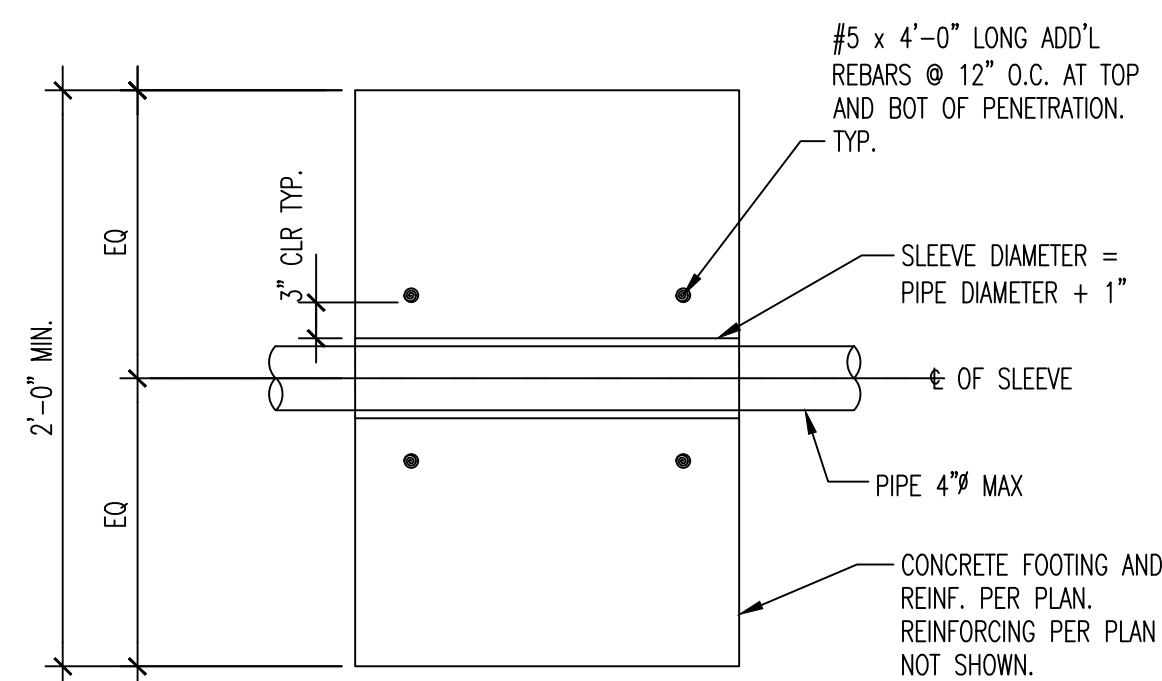


3 SLAB ON GRADE EDGE DETAIL

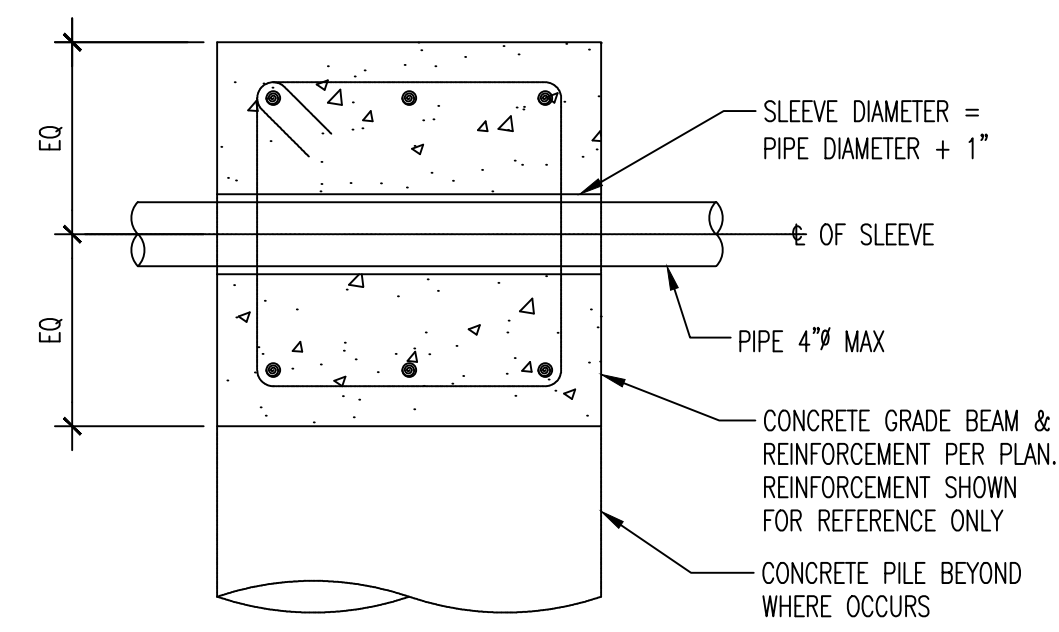


CONTROL JOINT  
(WHERE CONTINUOUS POUR IS USED) (A)

8

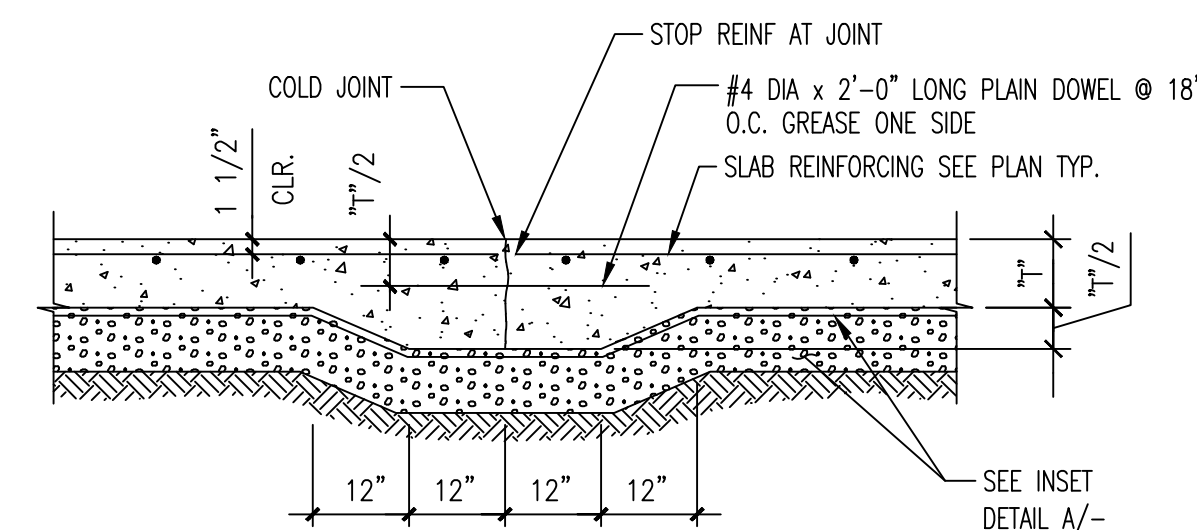


9 TYP. PIPE THRU FOOTING



NOTE: PENETRATION SHALL BE LOCATED WITHIN THE BEAM MID THIRD

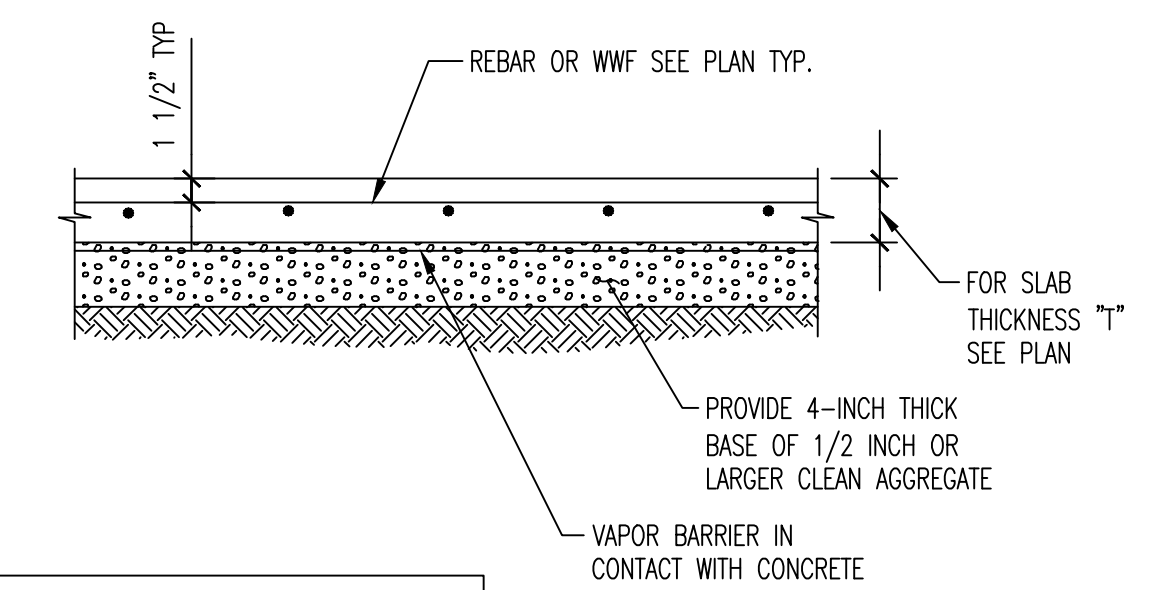
10 TYP. PIPE THRU GRADE BEAM



TYPICAL CONSTRUCTION JOINT (B)

NOTES:  
1. CONTROL JOINTS TO BE LOCATED AT COLUMN CENTER LINES AND AT 20'-0" O.C. MAX. AND EVERY 400 SQUARE FEET.  
2. IF SAW-CUT CONTROL JOINT TO BE USED, SAW-CUT WITHIN 24 HOURS OF POUR.  
3. SEE PLAN FOR "T".

11 JOINTS AT SLAB ON GRADE

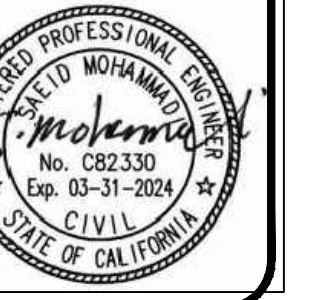
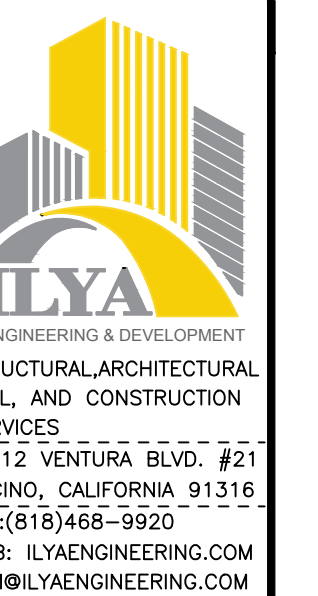


NOTES:  
1. SEE SOILS REPORT FOR ADDITIONAL SUBGRADE PREPARATION REQUIREMENTS  
2. VAPOR BARRIERS SPECS NOT PER JLA

4 TYPICAL SLAB ON GRADE

| NO. | DATE | REVISIONS |
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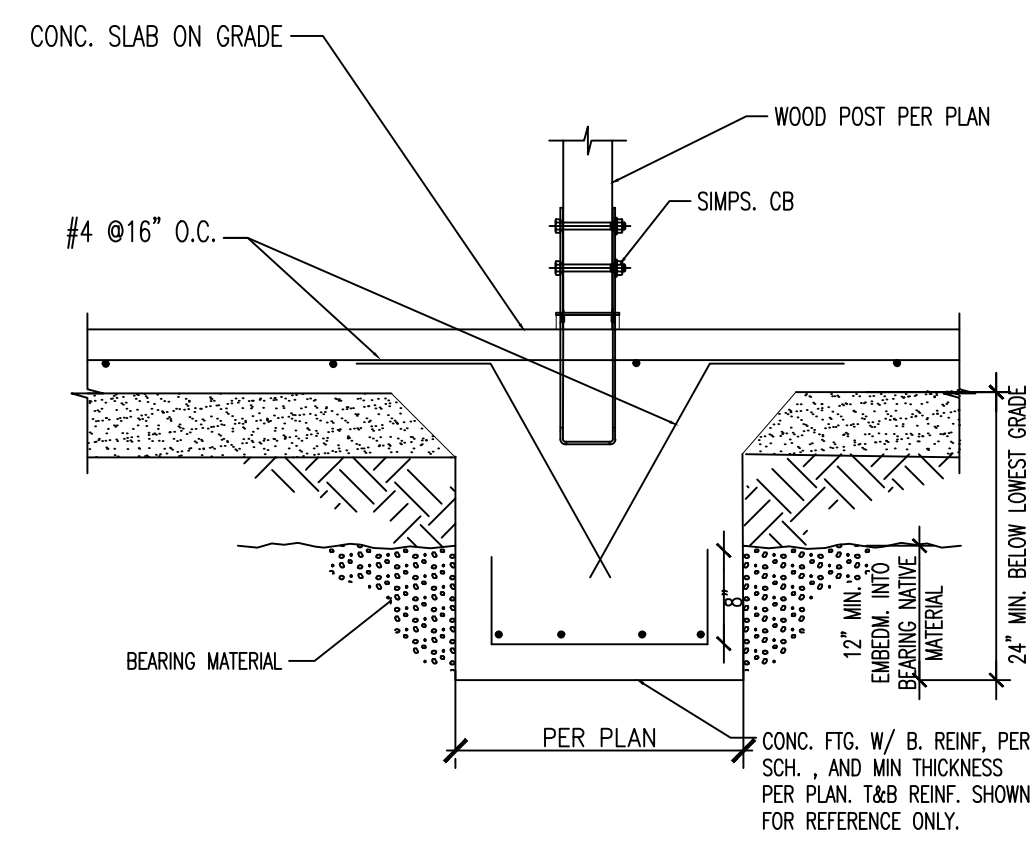
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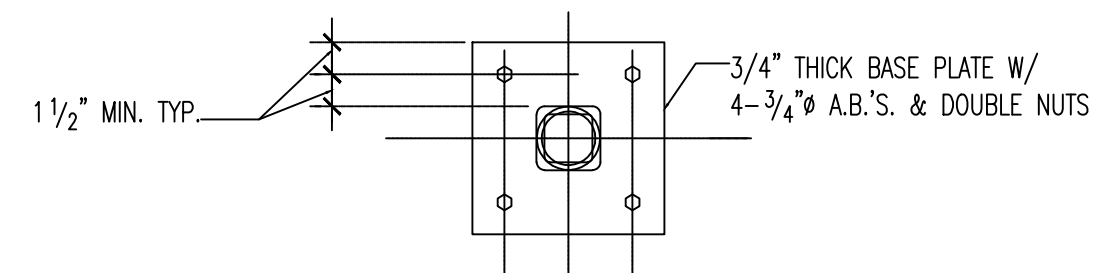
DETAILS

|         |        |
|---------|--------|
| NAME    |        |
| DATE    | 3/3/23 |
| SCALE   |        |
| CHECKED |        |
| SHEET   |        |

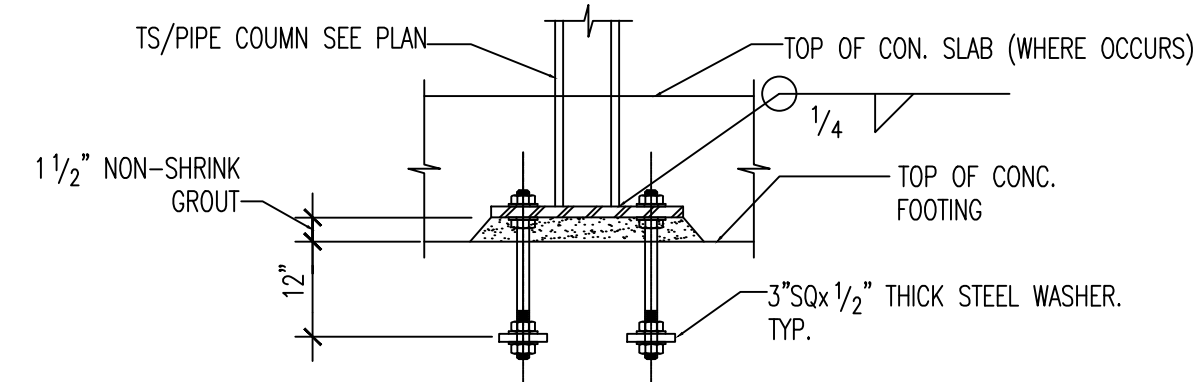
SD-1  
4 of 15 SHEETS  
JOB No 2211-547



1 PAD FTG DETAIL

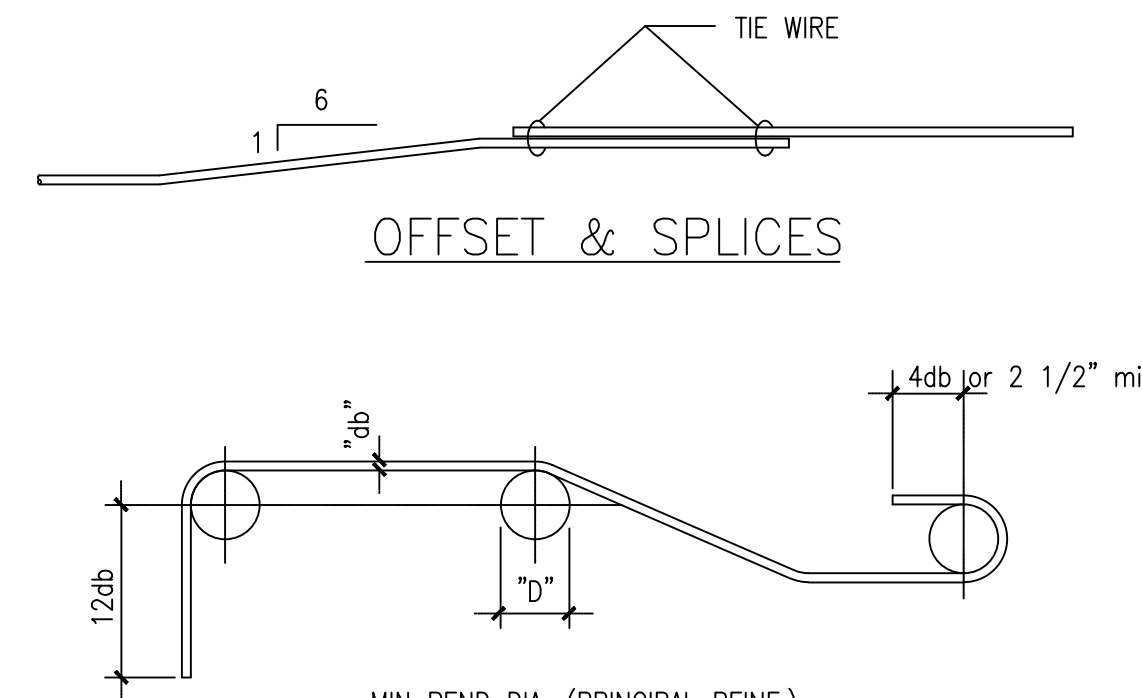


PLAN AT INTERIOR WALL CONDITIONS



ELEVATION

2 ISOLATED HSS-PIPE COL. BASE R



MIN BEND DIA. (PRINCIPAL REINF.)

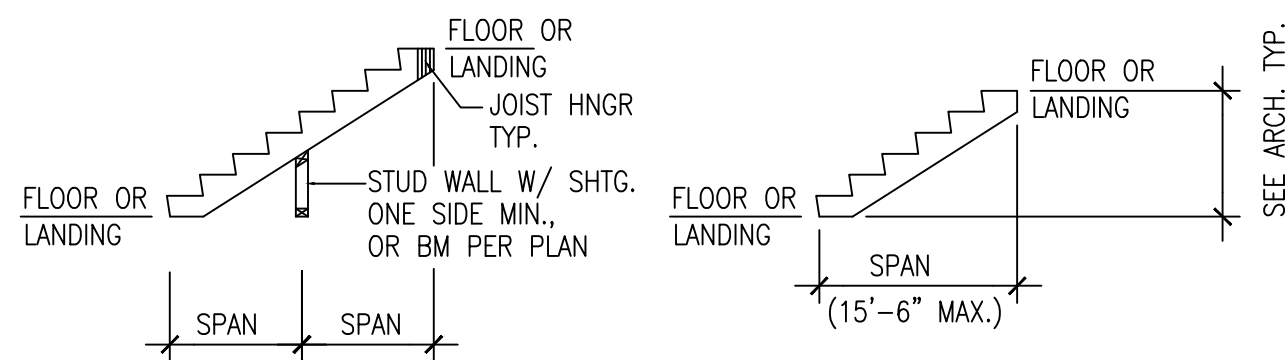
- D = 6db FOR #3 THRU #8
- D = 8db FOR #9 THRU #11
- D = 10db FOR #14 & #18

4 STANDARD HOOK DETAILS FOR PRINCIPAL REINF.

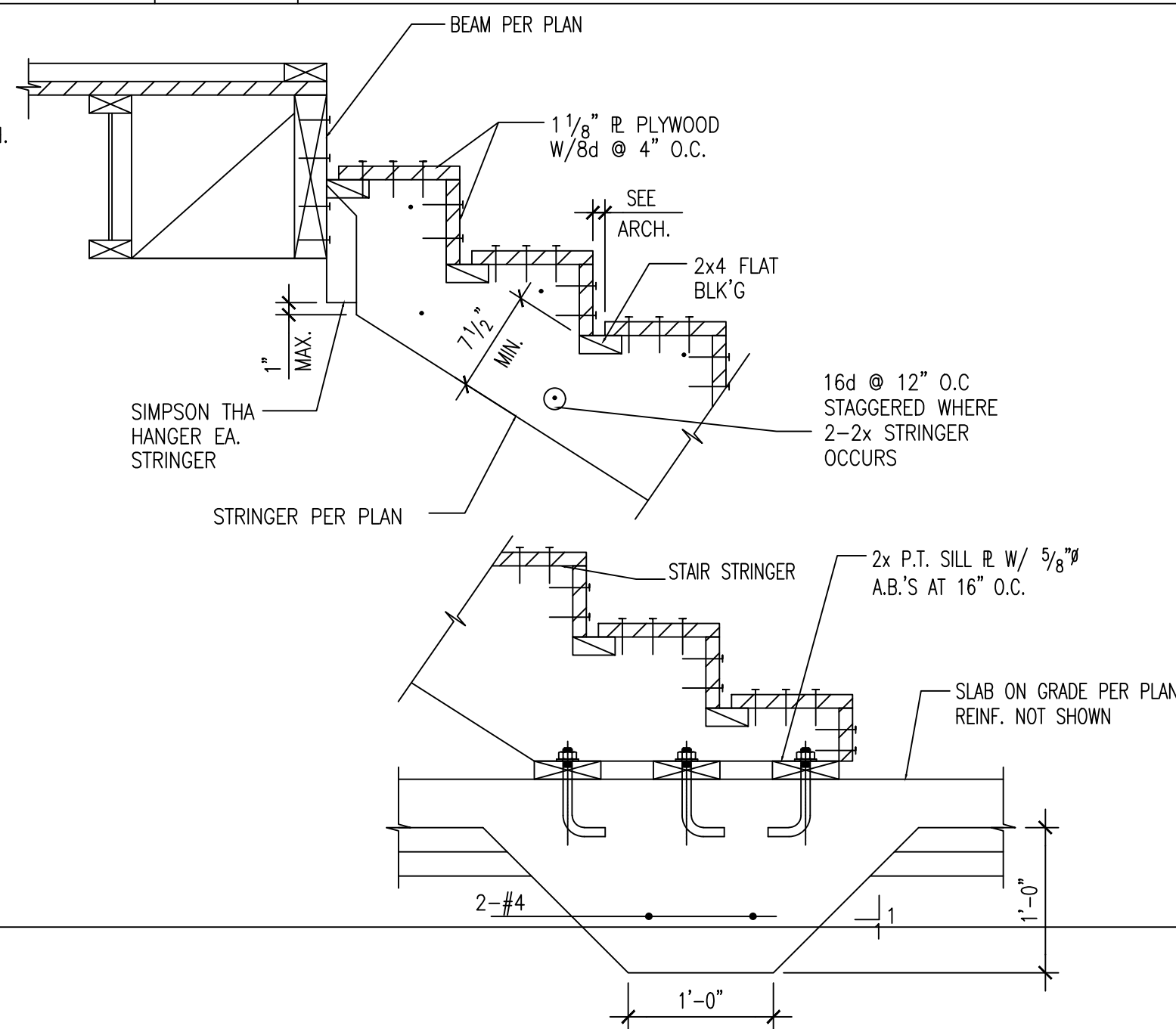
| STAIR STRINGER SCHEDULE |              |         |
|-------------------------|--------------|---------|
| SPAN                    | MIN STRINGER | SPACING |
| 0 TO 7'-9"              | 2x14         | 16"     |
| 7'-9" TO 9'-0"          | 2x14         | 12"     |
| 9'-0" TO 11'-0"         | 2-2x14       | 16"     |
| 11'-0" TO 13'-0"        | 2-2x14       | 12"     |
| 13'-0" TO 15'-6"        | 2-2x14       | 8"      |

NOTES:

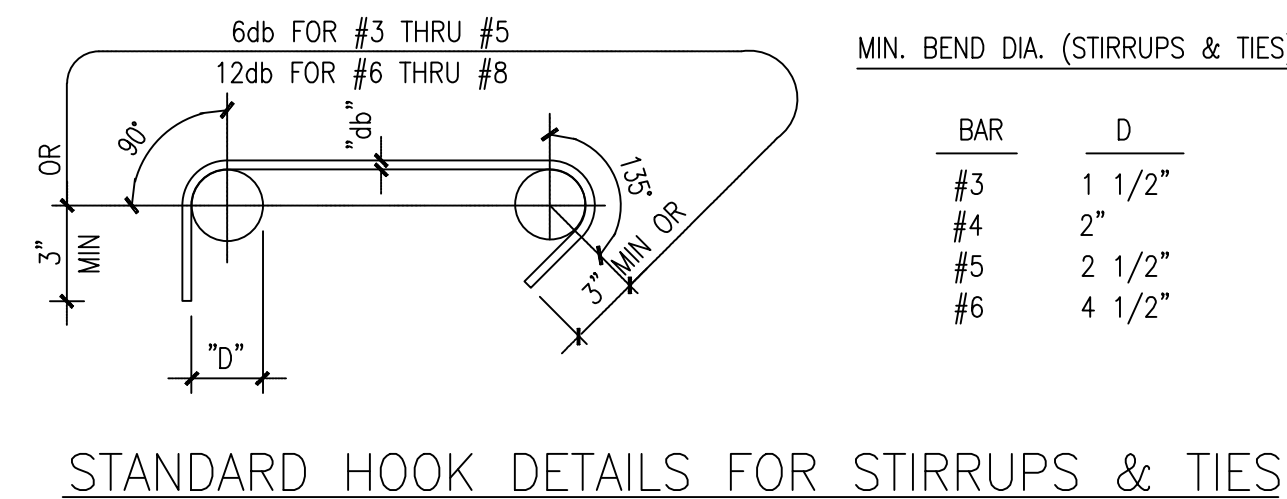
1. FOR APPLICATIONS IN SINGLE UNIT OR SINGLE FAMILY RESIDENCE USE DOUGLAS FIR NO. 2. FOR ALL OTHER APPLICATIONS USE DOUGLAS FIR SELECT STRUCTURAL.
2. FOR STAIR STRINGER SPAN SEE ARCH. DWG.
3. SEE ARCH. DWG. FOR TREAD CONSTRUCTION.
4. NAIL DOUBLE 2x14 W/ 16d NAILS AT 9" O.C. STAGG.
5. INCREASE STRINGER SIZE AS NEEDED TO MEET THE MIN 7 1/2" DIMENSION.



5 TYP. STAIR



7 TYPICAL REINFORCEMENT DETAILS

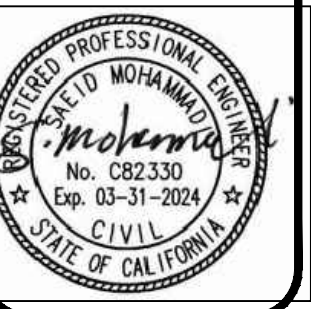


MIN EXTENSIONS PER ACI 318-11:  
-SEC 7.1.3 FOR STIRRUPS AND TIE HOOKS

8

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DETAILS

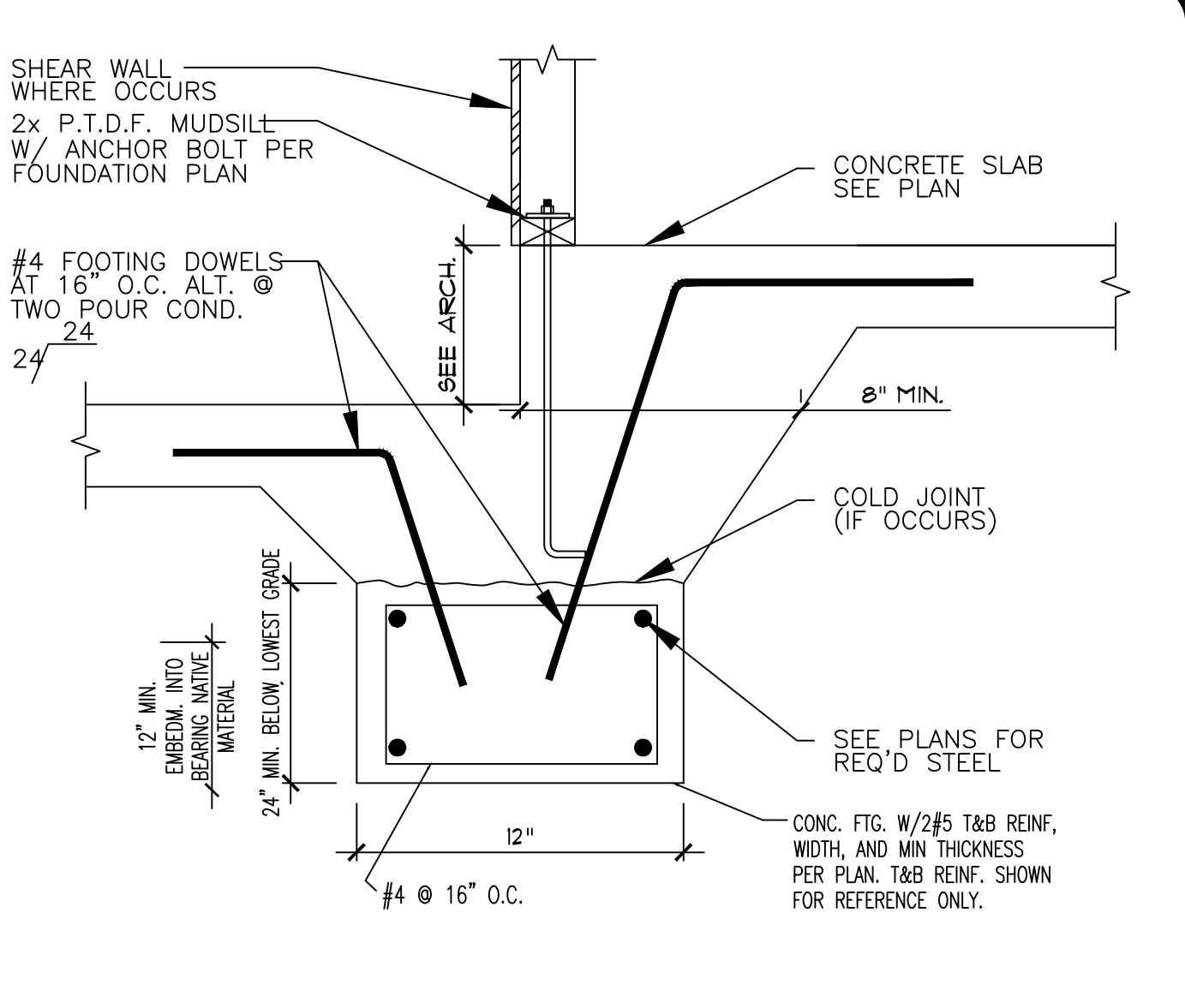
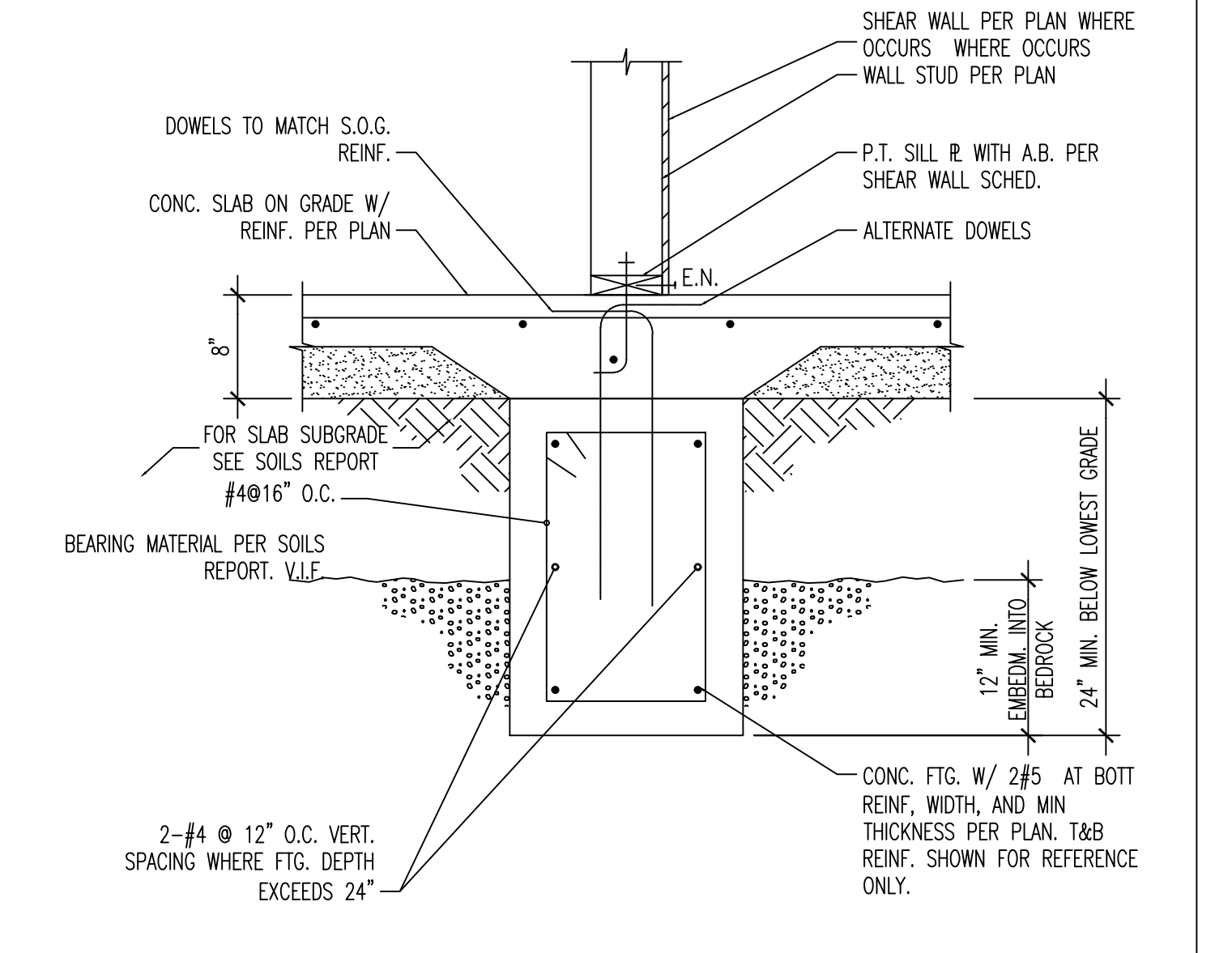
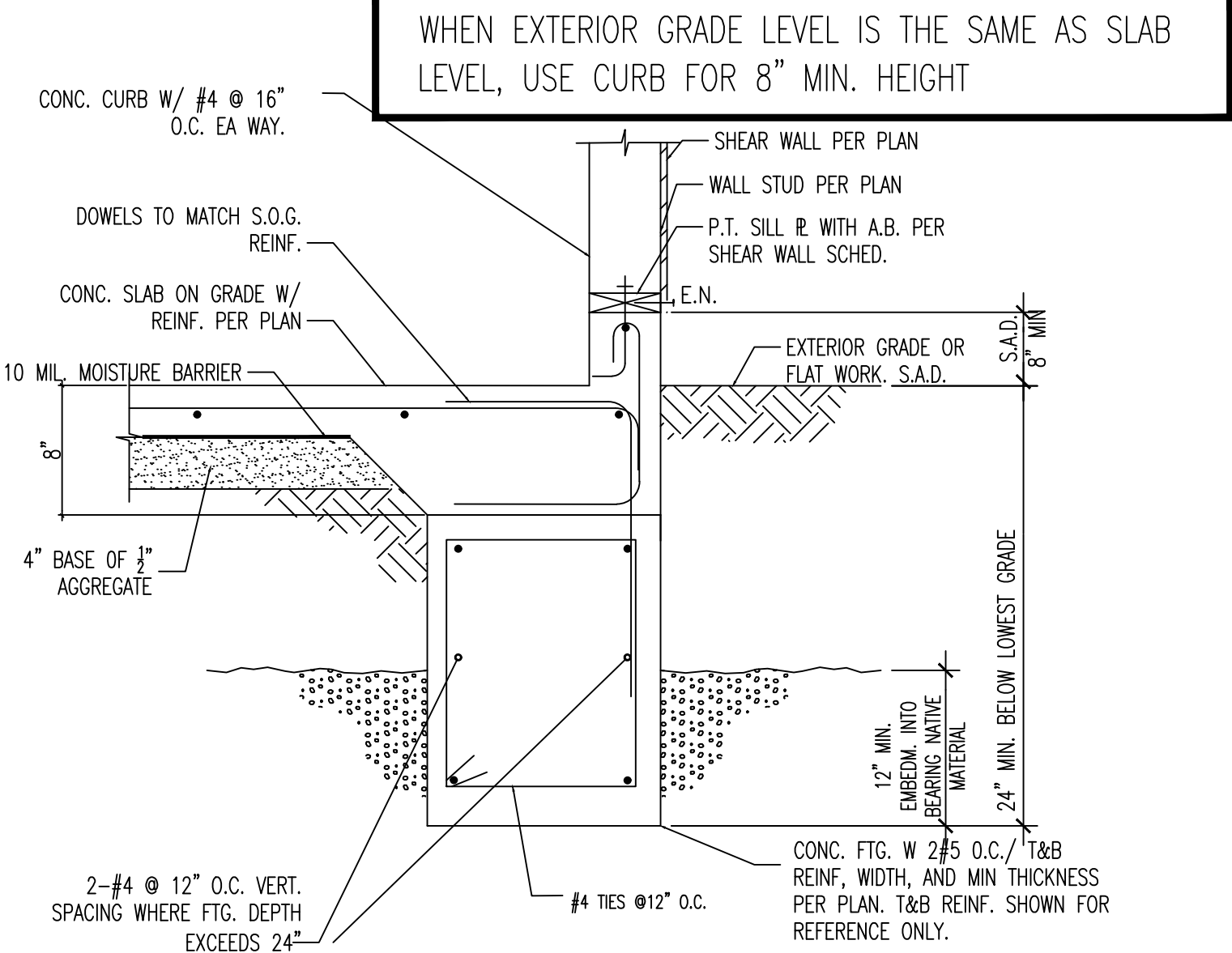
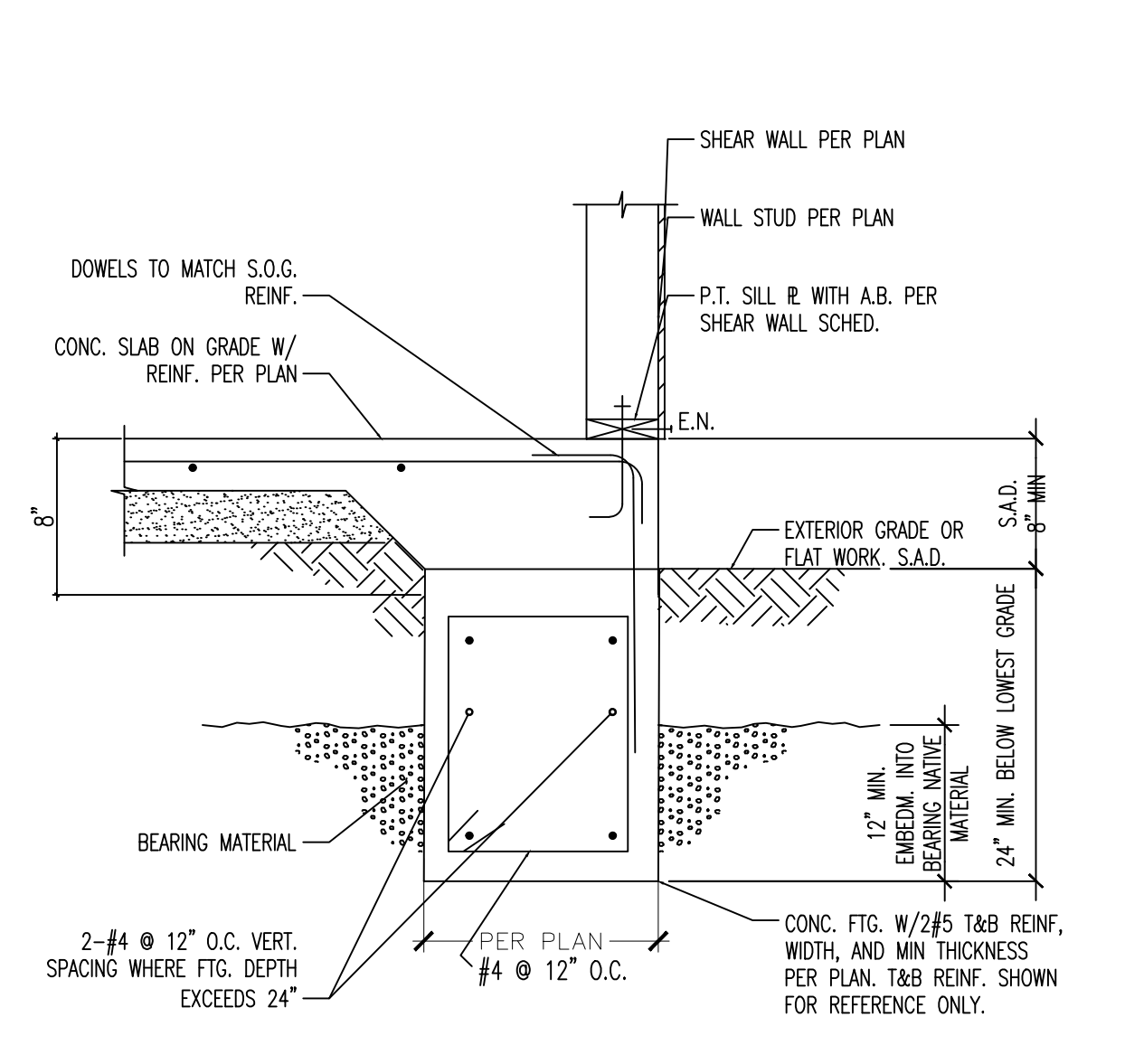
|                 |        |
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| NAME            |        |
| DATE            | 3/3/23 |
| SCALE           |        |
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| SHEET           | SD-2   |
| 5 OF 15 SHEETS  |        |
| JOB NO 2211-547 |        |

9

10

11



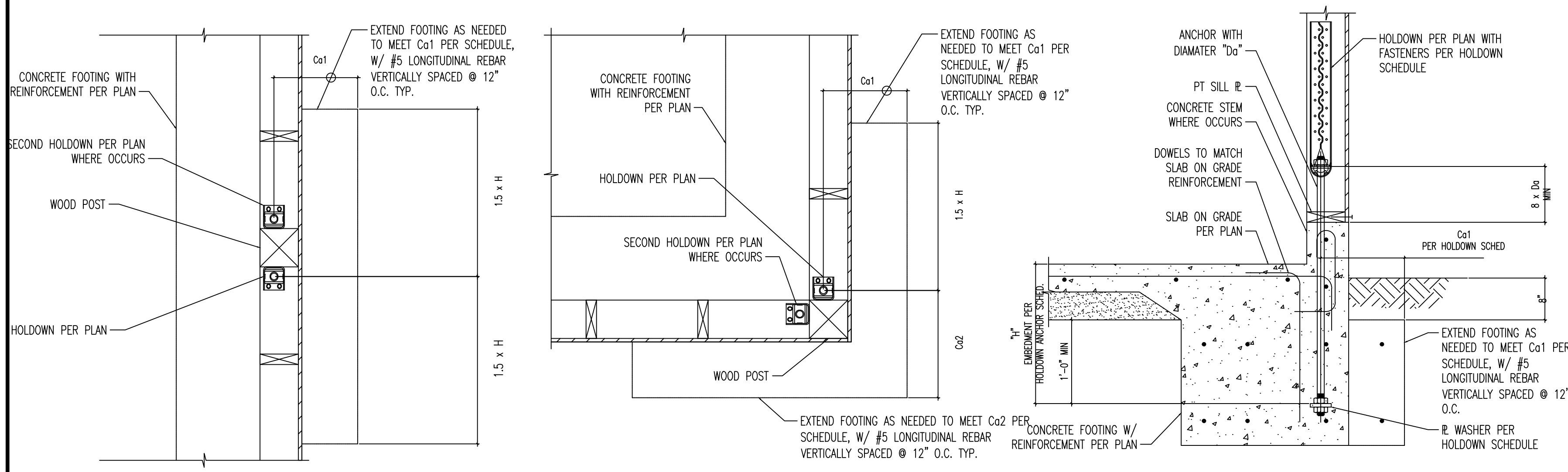


1 EXT. FTG. FOUNDED IN NATIVE SOIL

2 EXT. FTG. FOUNDED IN NATIVE SOIL

3 INT. FTG. FOUNDED IN NATIVE SOIL

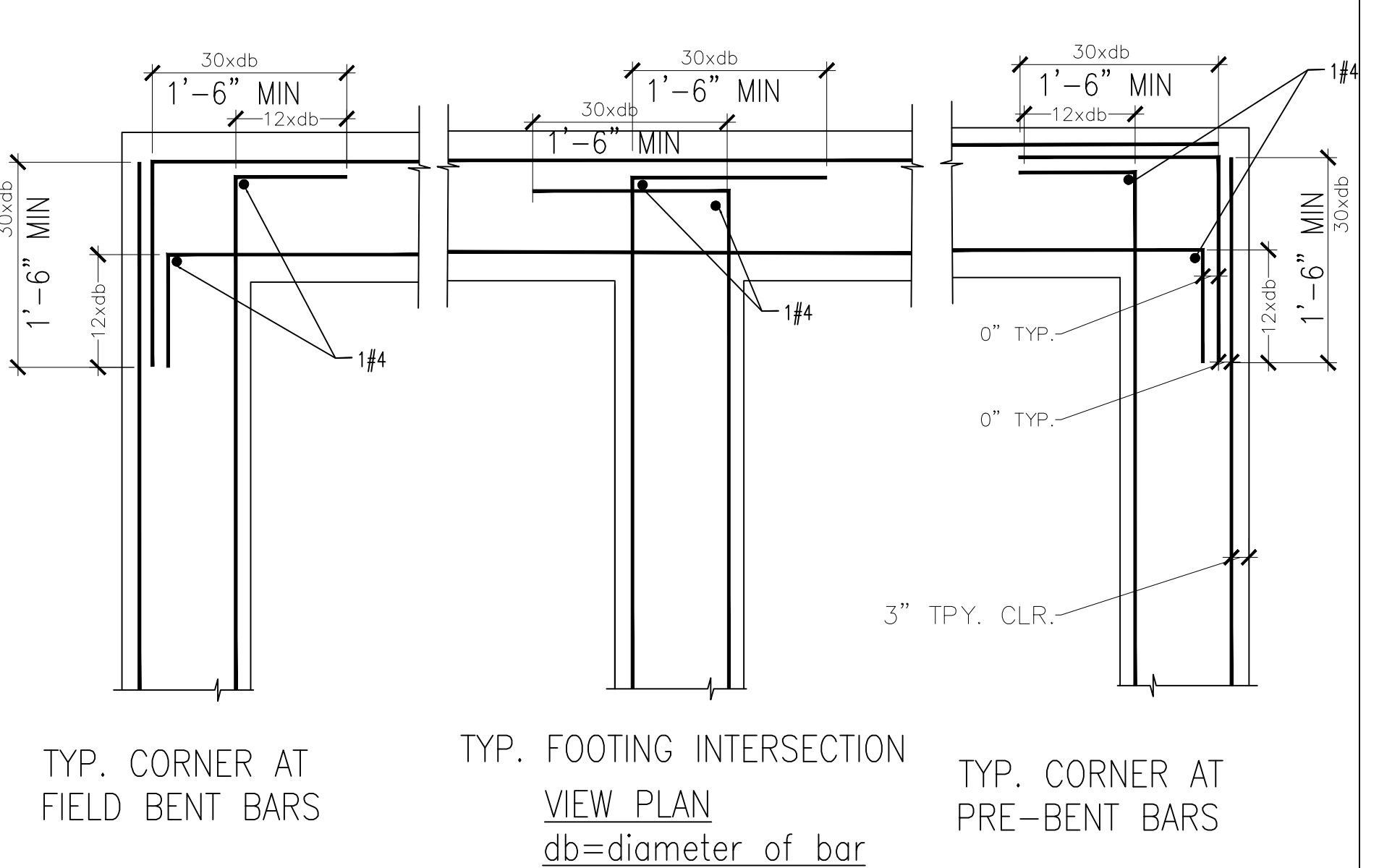
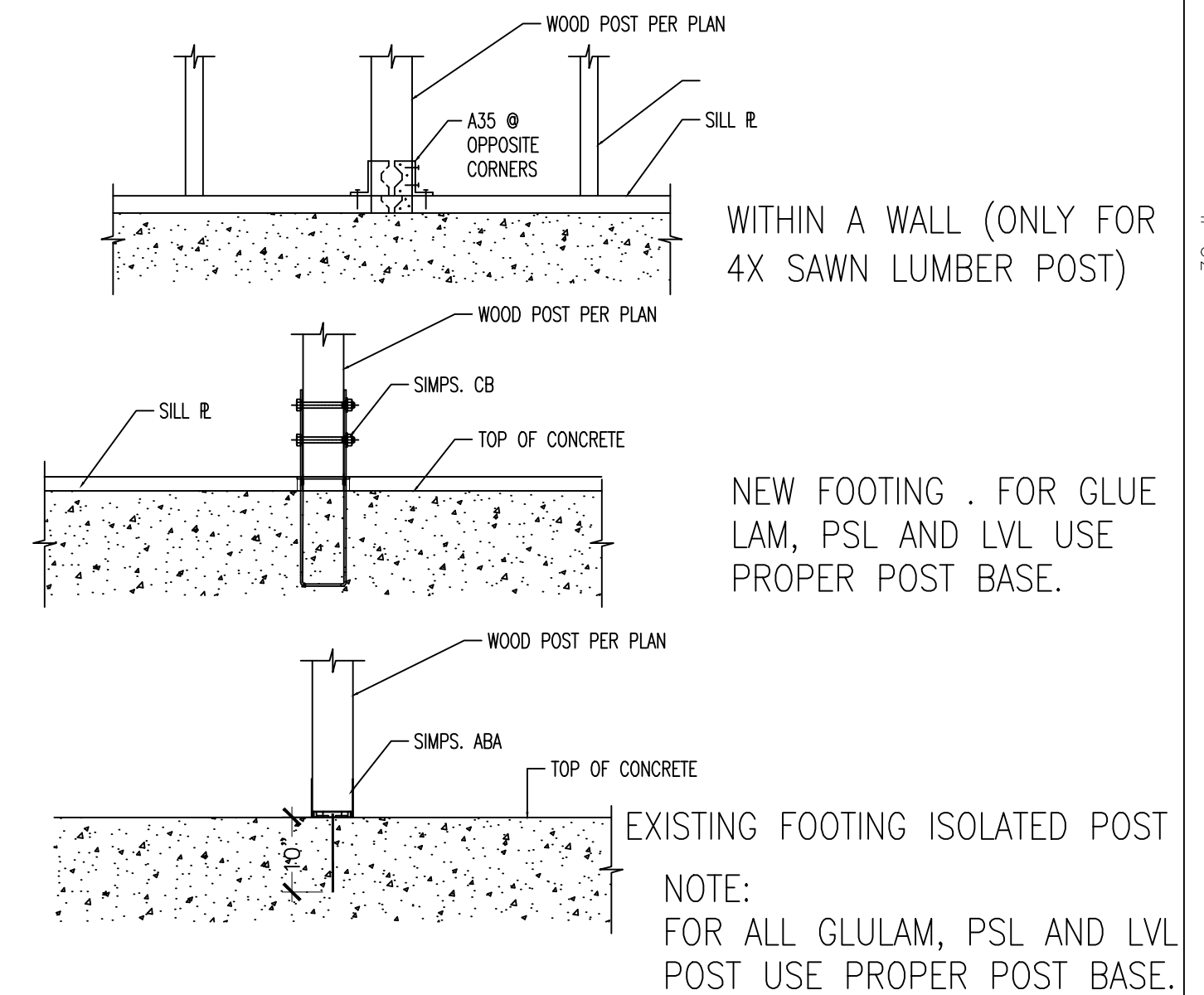
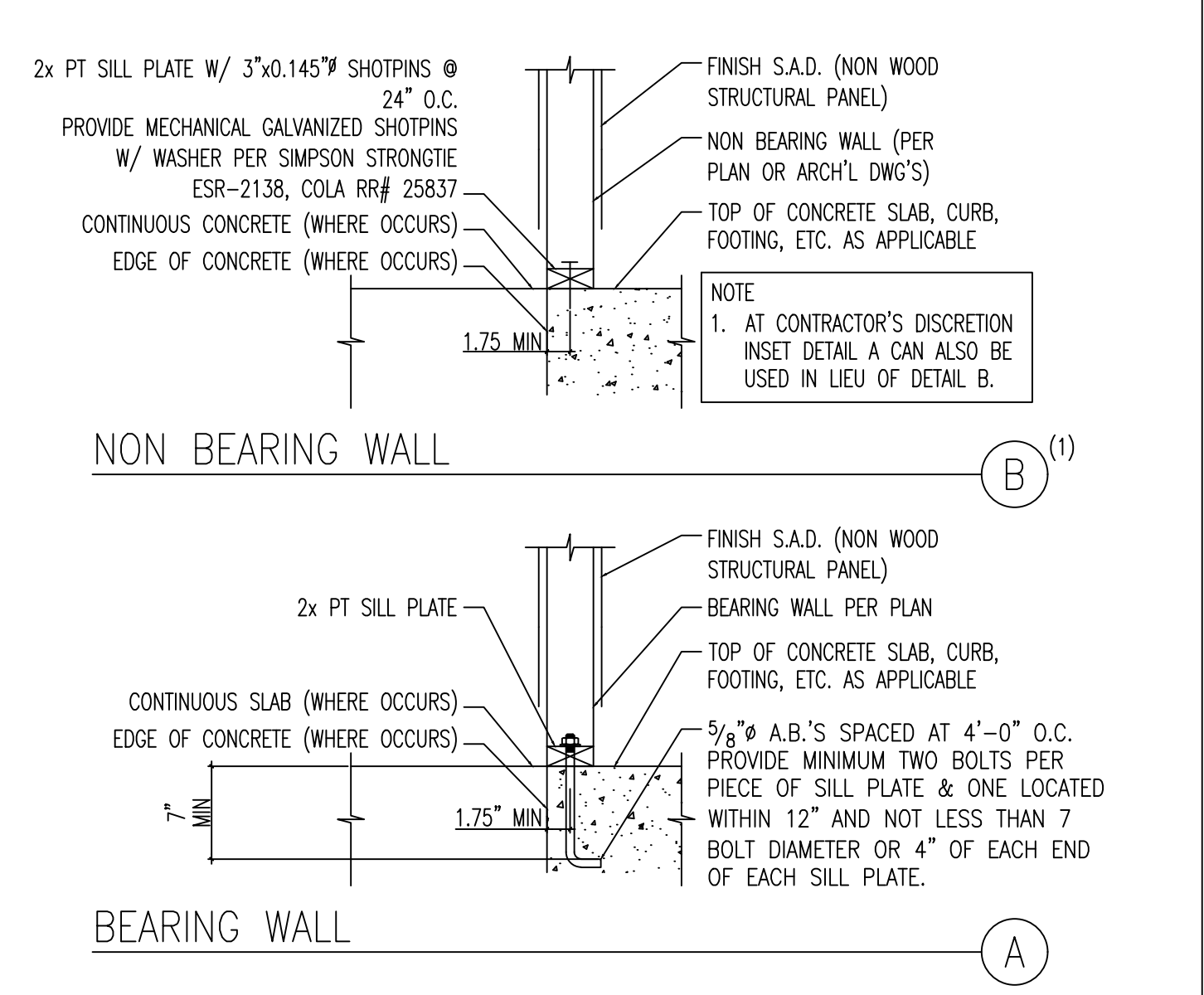
4 SLAB STEP-BEARING



| MARK (PER PLAN) | GRADE 36 ROD DIAM. "Da" | R WASHER |           | HOLD-DOWN ANCHOR IN CONCRETE FOOTING |       |         |         | CAPACITY | CAPACITY WITH 25% REDUCTION PER CITY OF LA | HOLD-DOWN (1) | FASTENER     | MIN POST SIZE (2) |                   |
|-----------------|-------------------------|----------|-----------|--------------------------------------|-------|---------|---------|----------|--|---------------|--------------|-------------------|-------------------|
|                 |                         | T (IN)   | SIDE (IN) | INSTALL                              | H MIN | Co1 MIN | Co2 MIN |          |  |               |              |                   | ANCHOR REINF. TYP |
| 2               | 5/8"                    | 3/8      | 1 1/2     | EDGE/FIELD                           | 12"   | 4"      | NA      | NR       | 3,075 LBS                                  | 2,306 LBS     | HDU2         | 6-SDS25212        | 4x4               |
| 4               | 5/8"                    | 3/8      | 1 1/2     | CORNER                               | 12"   | 4"      | 4"      | NR       | 4,565 LBS                                  | 3,424 LBS     | HDU4         | 10-SDS25212       | 4x4               |
| 5               | 5/8"                    | 3/8      | 1 1/2     | CORNER                               | 12"   | 4"      | 4"      | NR       | 5,670 LBS                                  | 4,253 LBS     | HDU5         | 14-SDS25212       | 4x6               |
| 8               | 7/8"                    | 3/8      | 2         | EDGE/FIELD                           | 16"   | 4"      | NA      | NR       | 7,890 LBS                                  | 5,918 LBS     | HDU8         | 20-SDS25212       | 4x8 OR 6x6        |
| 11              | 1"                      | 3/8      | 2         | CORNER                               | 18"   | 4"      | NA      | NR       | 9,535 LBS                                  | 7,151 LBS     | HDU11        | 30-SDS25212       | 6x6               |
| 14              | 1"                      | 3/8      | 2         | CORNER                               | 18"   | 4"      | NA      | NR       | 14,390 LBS                                 | 10,793 LBS    | HDU14        | 36-SDS25212       | 6x6               |
| 12              | 1 1/8"                  | 3/8      | 2 1/2     | EDGE/FIELD                           | 20"   | 4"      | NA      | NR       | 15,510 LBS                                 | 11,633 LBS    | HD12         | 4-1" BOLTS        | 6x6               |
| 19              | 1 1/4"                  | 3/8      | 3         | CORNER                               | 24"   | 4"      | 7"      | NR       | 19,360 LBS                                 | 14,520 LBS    | HD19         | 5-1" BOLTS        | 4x8 OR 6x8        |
| 14              | 2-1"                    | 3/8      | 2         | EDGE/FIELD                           | 24"   | 15"     | 15"     | NR       | 28,780 LBS                                 | 21,585 LBS    | DOUBLE HDU14 | 2 x 36-SDS25212   | 6x6               |

- NOTES:
- HDU SCREW-STYLE HOLD-DOWNS ARE PER LARR #25720, ICC ESR 2330. BOLT-STYLE HOLD-DOWNS PER LARR #25828, IAPMO ESR 0143
  - POST SIZE SHOWN ON THE SCHEDULE ARE MINIMUM SIZES. IF LARGER SIZES ARE SPECIFIED ON THE PLANS THE SIZES SHOWN ON PLANS SHALL BE USED
  - ROD SHALL BE A36 ALL THREADED RODS
  - NUT AT HOLD-DOWN THREADED ROD SHOULD BE FINGER-TIGHT PLUS 1/2 TURN WITH A HAND WRENCH. DO NOT OVER-TORQUE THE NUT. DO NOT USE IMPACT WRENCHES.
  - HOLD-DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION/OBSERVATION
  - HOLD-DOWNS MUST BE INSPECTED/OBSERVED BEFORE COVERING WITH SHEATHING.

5 HOLD-DOWN ANCHOR IN CONCRETE FOOTING



9 BASE DETAIL @ NON SHEAT'D WALL

10 TYP. POST BASE

11 TYP. FOOTING REINF.DETAIL

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DETAILS

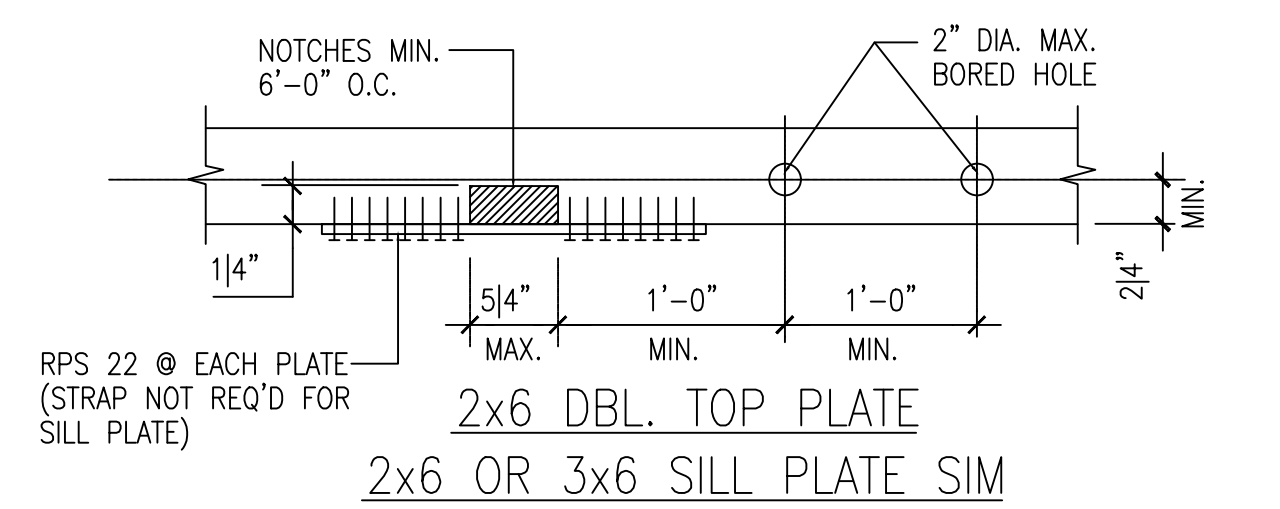
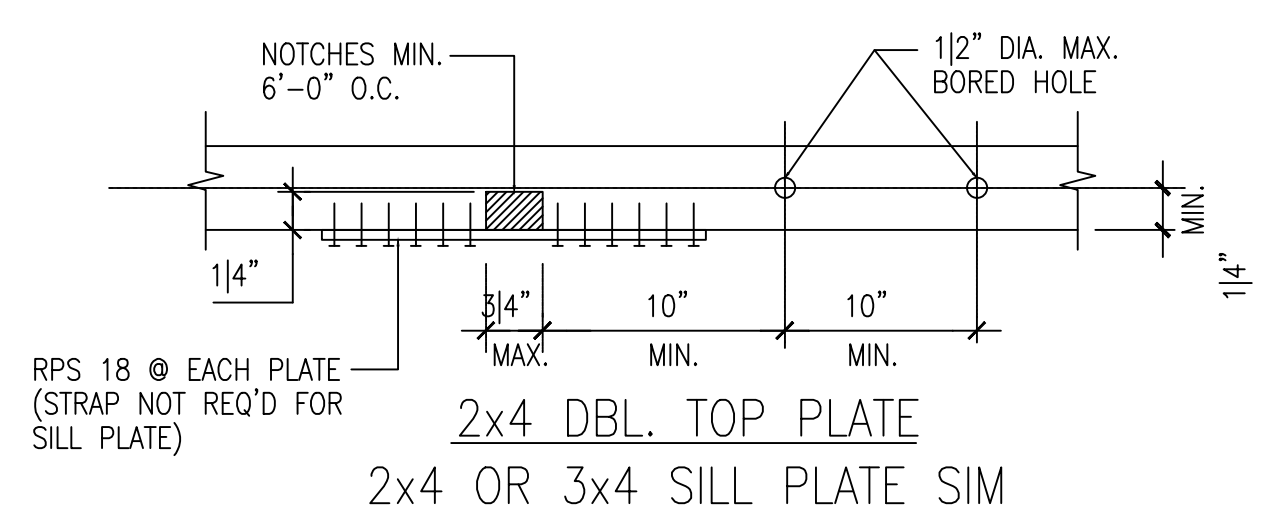
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| 6 OF 15 SHEETS  |        |
| JOB No 2211-547 |        |



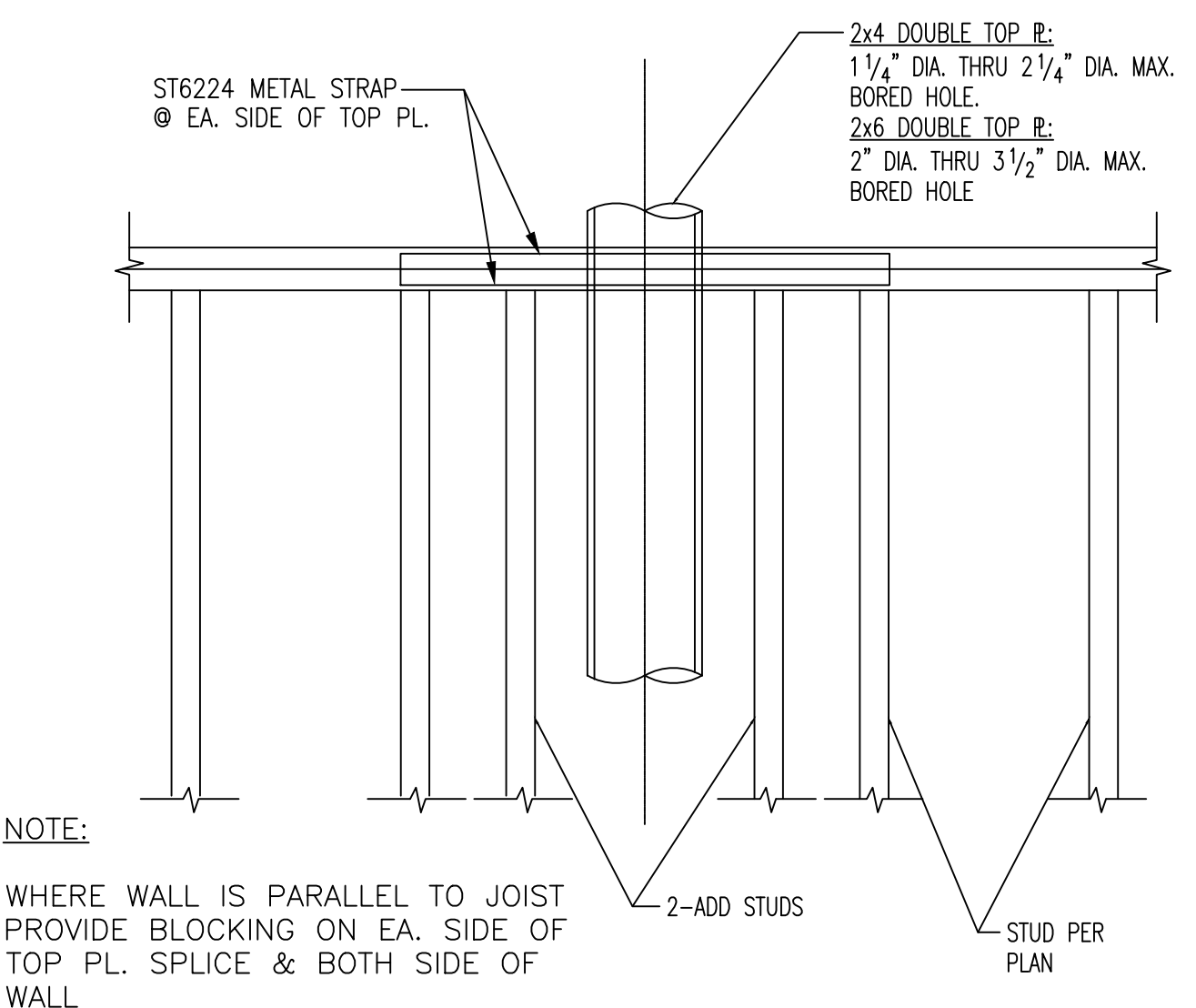
| HANGER SCHEDULE - MANUFACTURER: SIMPSON STRONGTIE   |   |   |  |
|---|---|---|--|
| TOP MOUNT HANGER (SEE NOTE 1)                       |   | FACE MOUNT HANGER (SEE NOTE 1)                      |  |
| JOIST/BEAM SIZE                                     | HANGER TYPE                               | JOIST/BEAM SIZE                                     | HANGER TYPE                              |
| ALL SAWN LUMBER U.N.O.                              | SIMPSON HUTF<br>ESP-2553<br>COLA R925803  | ALL SAWN LUMBER U.N.O.                              | SIMPSON HU<br>ESP-2549<br>COLA R925807   |
| 2x6 THRU 2x16                                       | SIMPSON LB<br>ESP-2553<br>COLA R925803    | 2x6 THRU 2x10                                       | SIMPSON LUS<br>ESP-2549<br>COLA R925807  |
| 2-2x6 THRU 2-2x14                                   | SIMPSON HUSTF<br>ESP-2553<br>COLA R925803 | 2-2x6 THRU 2-2x10                                   | SIMPSON LUS<br>ESP-2549<br>COLA R925807  |
| 4x6 THRU 4x14                                       | SIMPSON HUSTF<br>ESP-2553<br>COLA R925803 | 4x6 THRU 4x16                                       | SIMPSON HHUS<br>ESP-2552<br>COLA R925801 |
| ALL I-JOIST U.N.O.                                  | SIMPSON LBV<br>ESP-2615<br>COLA R925803   | ALL I-JOIST U.N.O.                                  | SIMPSON MIU<br>ESP-2552<br>COLA R925801  |
| SINGLE I-JOIST TO WOOD BEAM<br>9 1/4 THRU 16 DEEP   | SIMPSON ITS<br>ESP-2615<br>COLA R925803   | SINGLE I-JOIST TO WOOD BEAM<br>9 1/4 THRU 16 DEEP   | SIMPSON IUS<br>ESP-2552<br>COLA R925801  |
| ALL PSL/LVL/LSL BEAMS U.N.O.                        | SIMPSON HGLTV<br>ESP-2615<br>COLA R925803 | ALL PSL/LVL/LSL BEAMS U.N.O.                        | SIMPSON HGU<br>ESP-2552<br>COLA R925801  |
| 3 1/2" AND 5 1/4" PSL/LVL/LSL<br>UP TO 11 7/8" DEEP | SIMPSON GLTV<br>ESP-2615<br>COLA R925803  | 3 1/2" AND 5 1/4" PSL/LVL/LSL<br>UP TO 11 7/8" DEEP | SIMPSON MGV<br>ESP-2552<br>COLA R925801  |
| ALL GLULAM BEAMS U.N.O.                             | SIMPSON EG<br>ESP-2615<br>COLA R925803    | ALL GLULAM BEAMS U.N.O.                             | SIMPSON HHGU<br>ESP-2552<br>COLA R925801 |

NOTES:  
 1. PROVIDE TOP MOUNT HANGERS. FACE MOUNT HANGERS SHALL BE ALLOWED ONLY WHERE SPECIFICALLY INDICATED ON THE PLANS OR DETAILS.  
 2. PROVIDE SKEWED, SLOPED HANGERS AS REQ'D.  
 3. PROVIDE OFFSET OR CONCEALED FLANGE HANGERS AT EDGE CONDITIONS AS NEEDED.

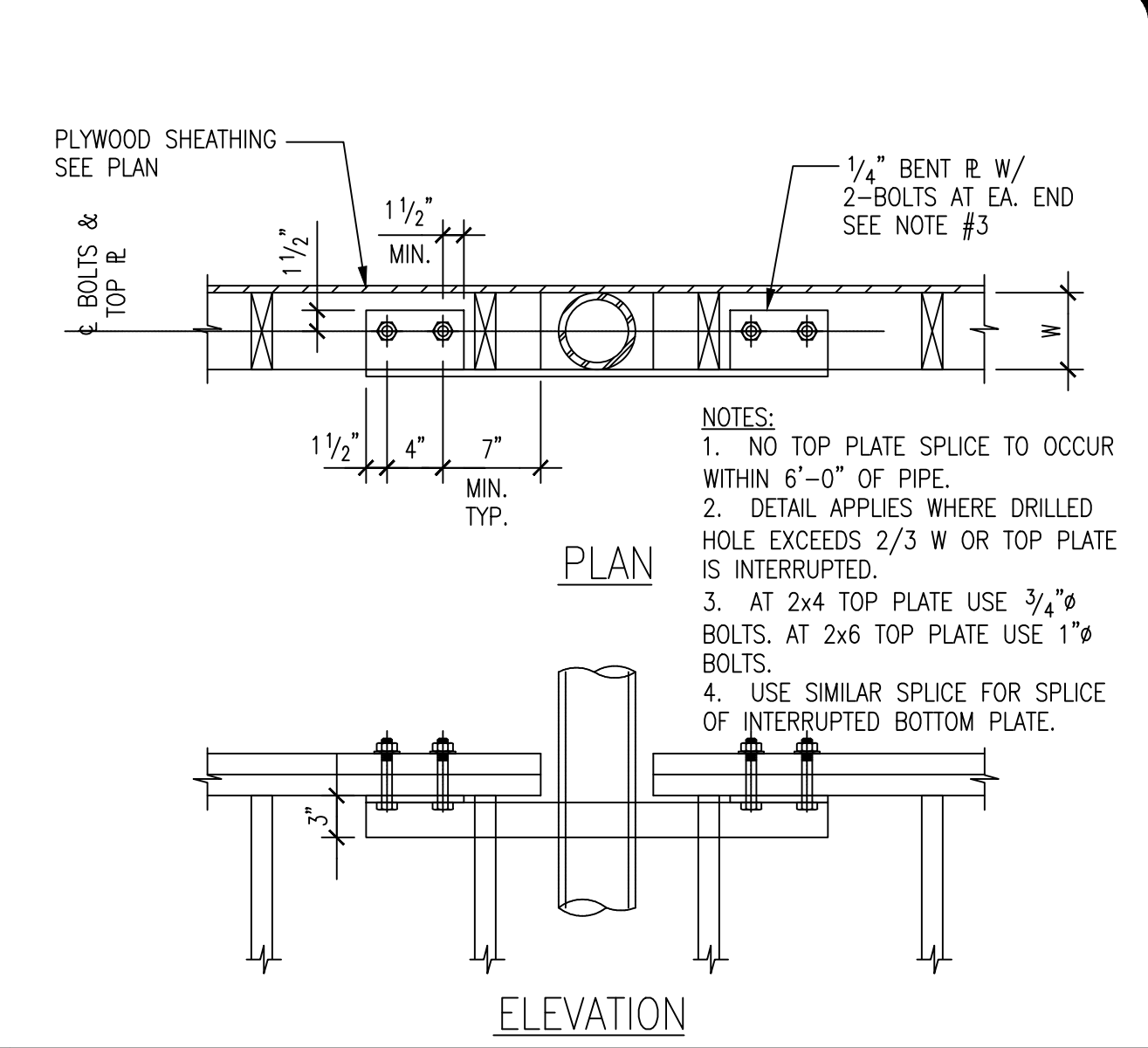
HANGER SCHEDULE



2 PLATE NOTCHING & BORING

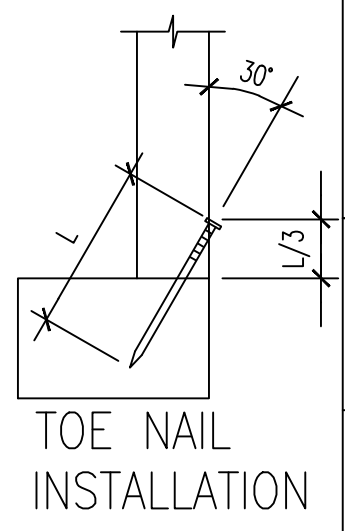


3 SHEAR WALL WITH PIPE DETAIL

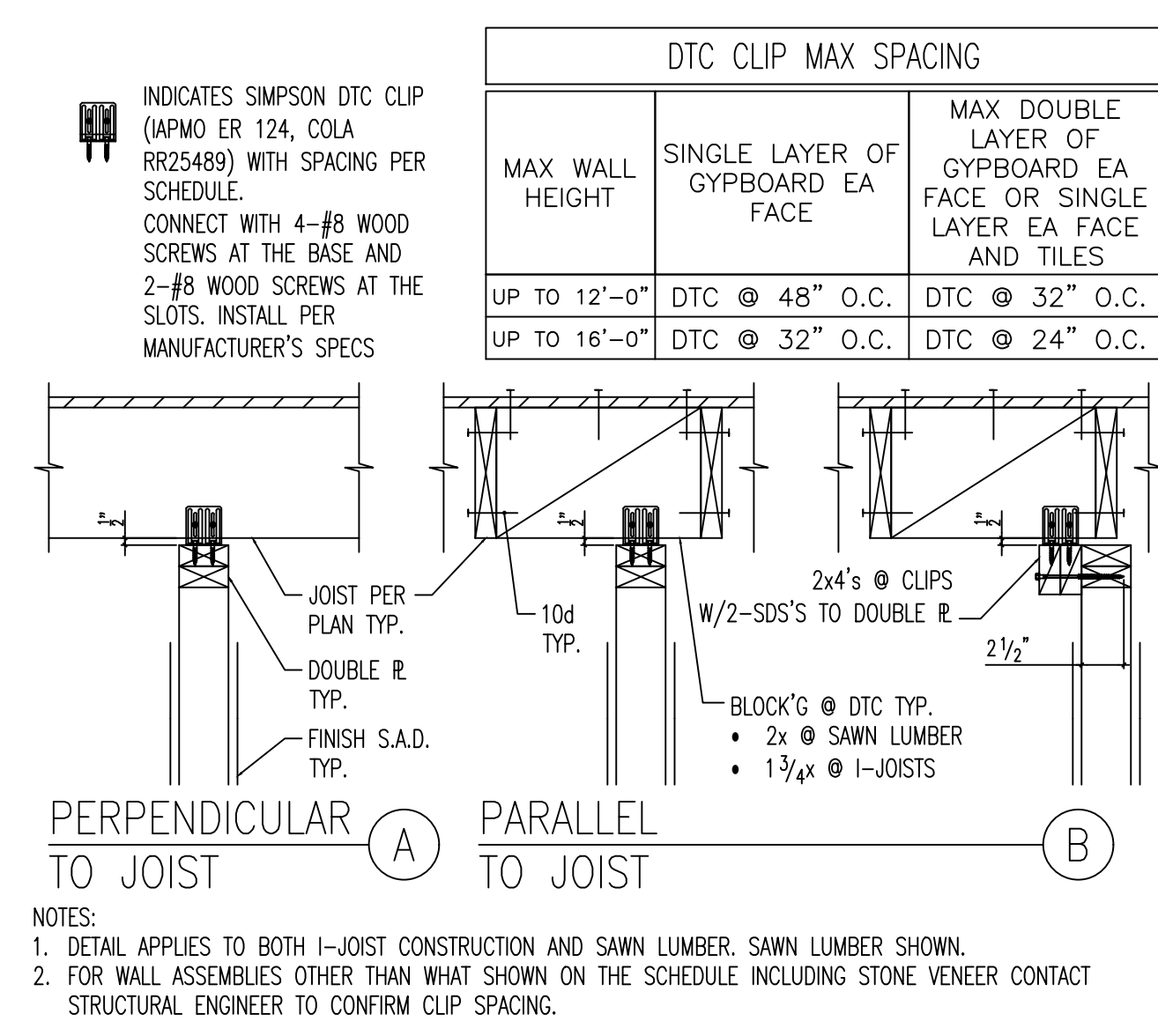


4 TYP. INTERRUPTED TOP/BOTT. PLATE SPLICE

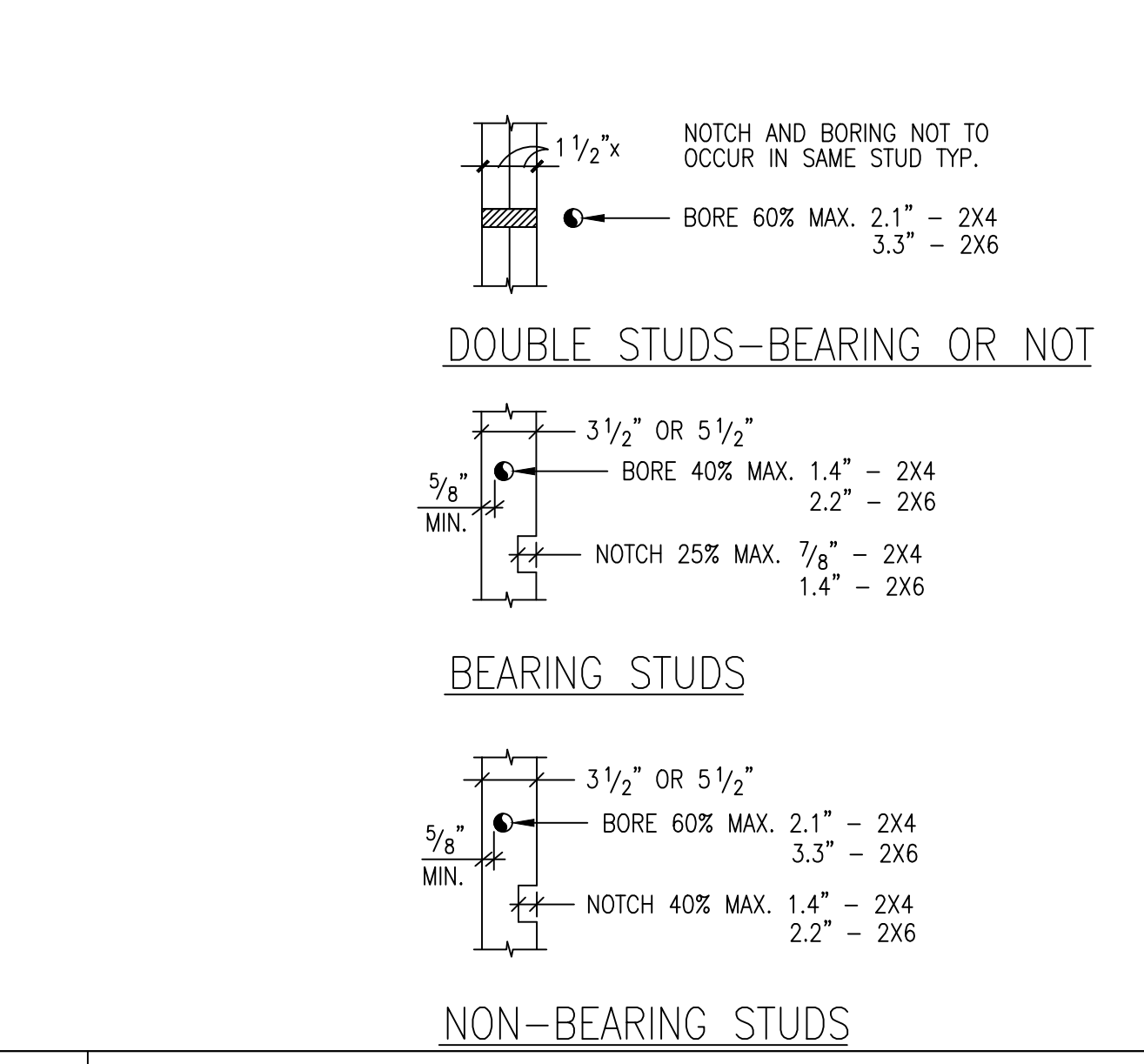
| NAILING SCHEDULE   |                                  |
|--|----------------------------------|
| CONNECTION   | NAILING                          |
| POST TO PIER PAD, TOE NAIL                               | 3-16d or 4-8d                    |
| GIRDER TO POST, TOE NAIL                                 | 3-16d or 4-8d                    |
| JOIST TO SILL OR GIRDER, TOE NAIL                        | 3-8d                             |
| BRIDGING TO JOIST, TOE NAIL EACH END                     | 2-8d                             |
| JOIST TO BLOCKING, END NAIL                              | 16d 1&B OF EACH JOIST            |
| RIM JOIST TO JOISTS, END NAIL                            | 16d 1&B OF EACH JOIST            |
| RIM JOIST TO SILL, TOE NAIL                              | 16d @ 16" O.C.                   |
| FLOOR JOIST LAP @ BEARING, FACE NAIL                     | 2-16d                            |
| SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL               | 16d @ 16" O.C.                   |
| TOP PLATE TO STUD, END NAIL                              | 2-16d                            |
| STUD TO SOLE PLATE                                       | 2-16d END NAIL, OR 4-8d TOE NAIL |
| DOUBLED STUDS, FACE NAIL                                 | 16d @ 24" O.C.                   |
| DOUBLE TOP PLATES, FACE NAIL                             | 8-16d                            |
| DOUBLE TOP PLATES, LAP SPLICE                            | 16d @ 16" O.C.                   |
| TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL            | 2-16d                            |
| BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL | 3-8d                             |
| RIM JOIST TO TOP PLATE, TOENAIL                          | 8d @ 16" O.C.                    |
| CONTINUOUS HEADER, TWO PIECES                            | 16d @ 16" O.C. ALONG EACH EDGE   |
| CEILING JOIST TO PLATE, TOE NAIL                         | 3-8d                             |
| CONTINUOUS HEADER TO STUD, TOE NAIL                      | 4-8d                             |
| CEILING JOISTS, LAP OVER PARTITIONS, FACE NAIL           | 3-16d                            |
| CEILING JOIST TO PARALLEL RAFTER, FACE NAIL              | 3-16d                            |
| RAFTER TO RIDGE  | 3-8d                             |
| RAFTER TIES, 2" LUMBER, FACE NAIL                        | 3-16d                            |
| RAFTER TIES, 1" LUMBER, FACE NAIL                        | 5-8d                             |
| RAFTER TO PLATE, TOE NAIL                                | 3-8d                             |
| 1"x4" MIN. BRACE TO EACH STUD AND PLATE, FACE NAIL       | 2-8d                             |
| BUILT-UP CORNER STUDS                                    | 16d @ 24" O.C.                   |



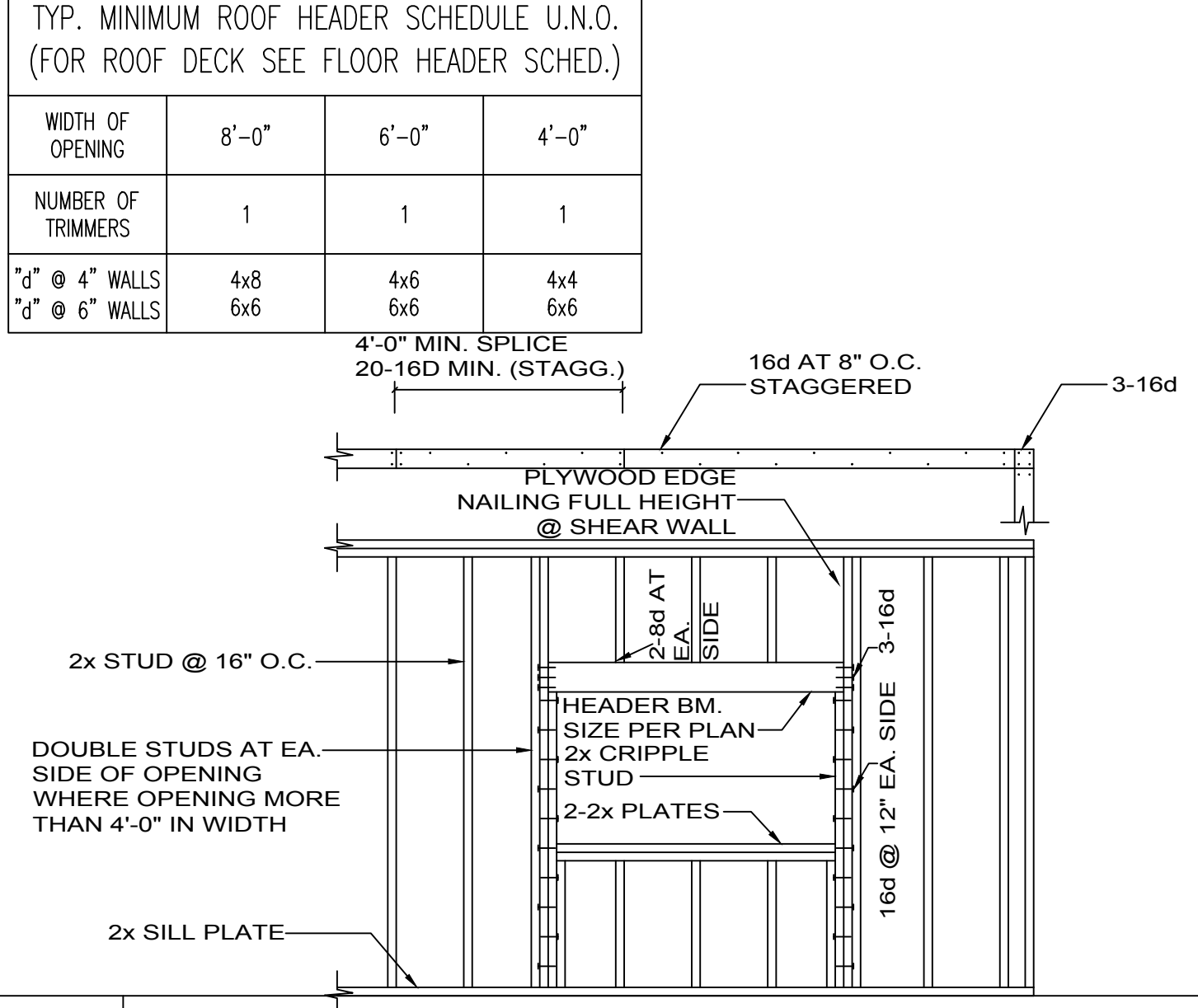
TOE NAIL INSTALLATION



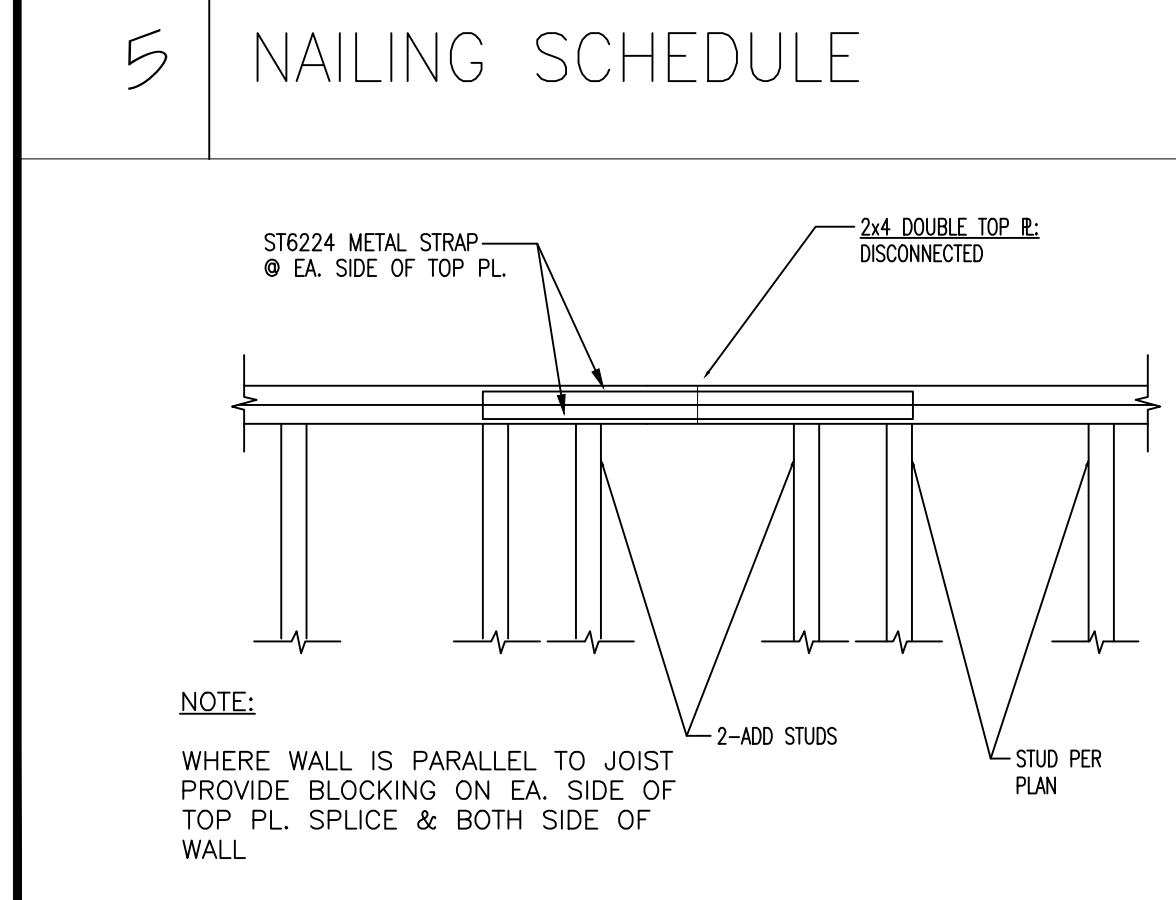
6 TOP CONN. NON BEARING WALL



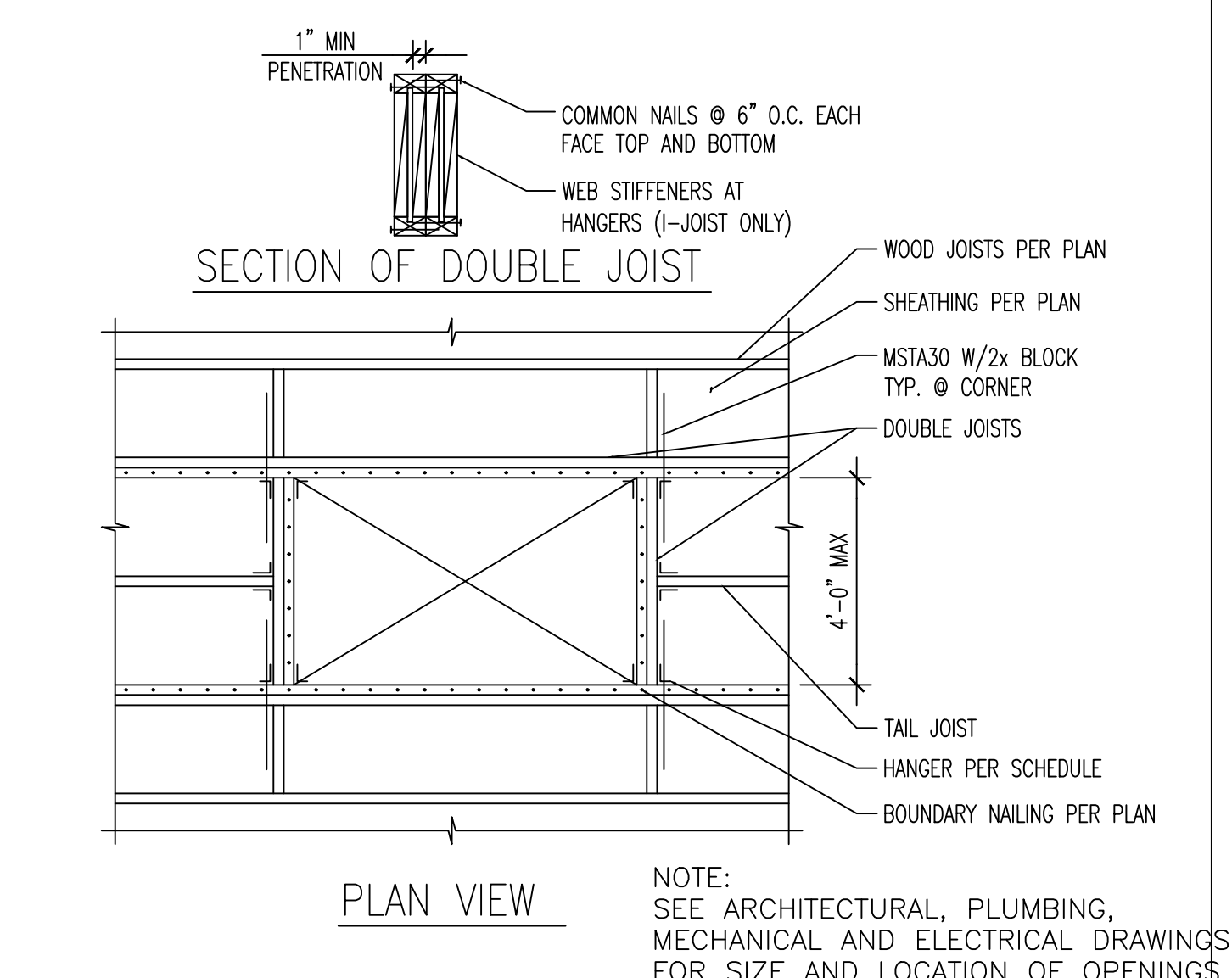
7 TYP. STUD NOTCHING



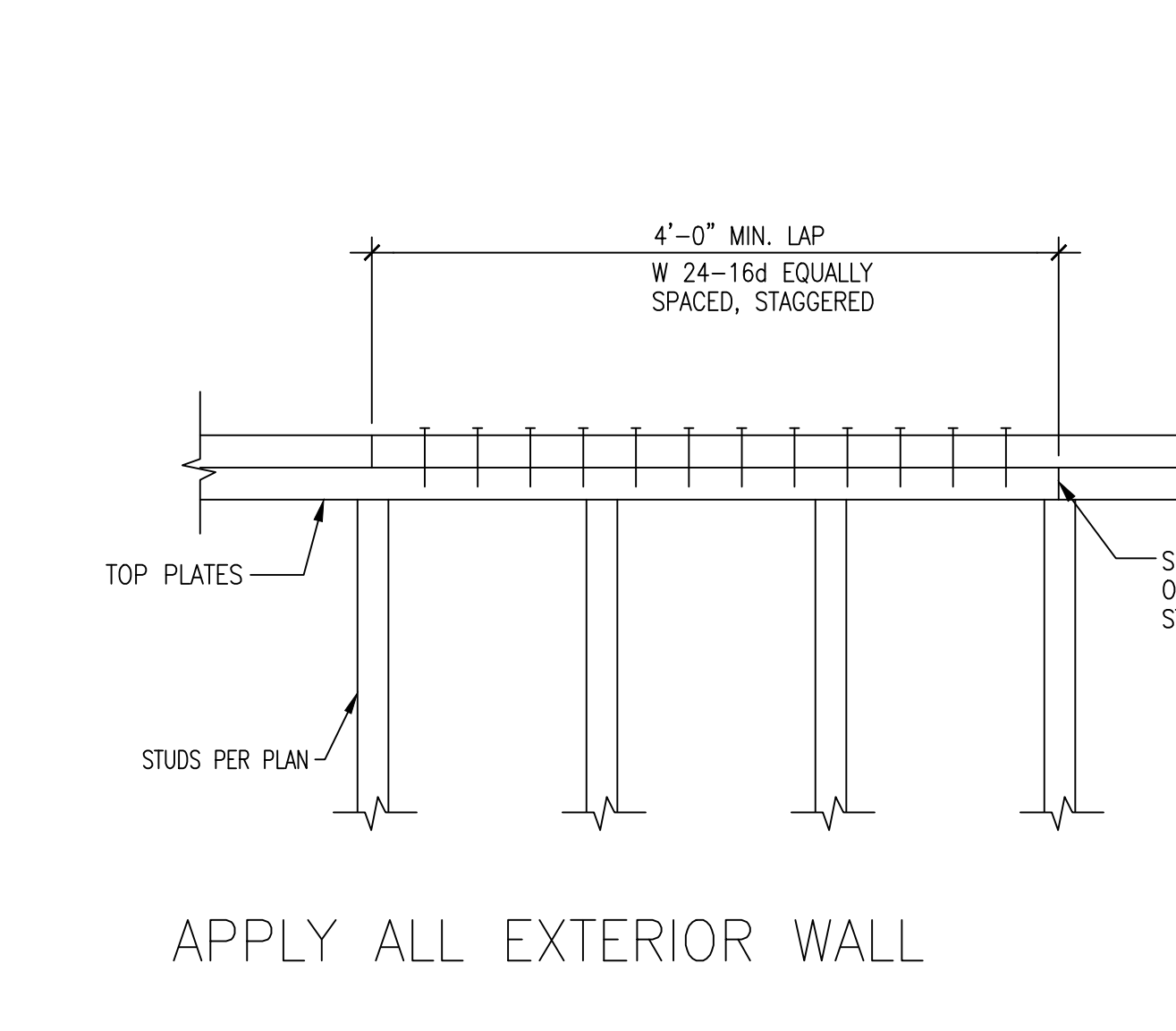
8 TYP. WALL FRAMING OPENING



9 (N) TOP PLATE TO (E) TOP PLATE



10 TYP. FLOOR AND ROOF OPENING



11 TYP. TOP PLATES SPLICE DETAIL

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DETAILS

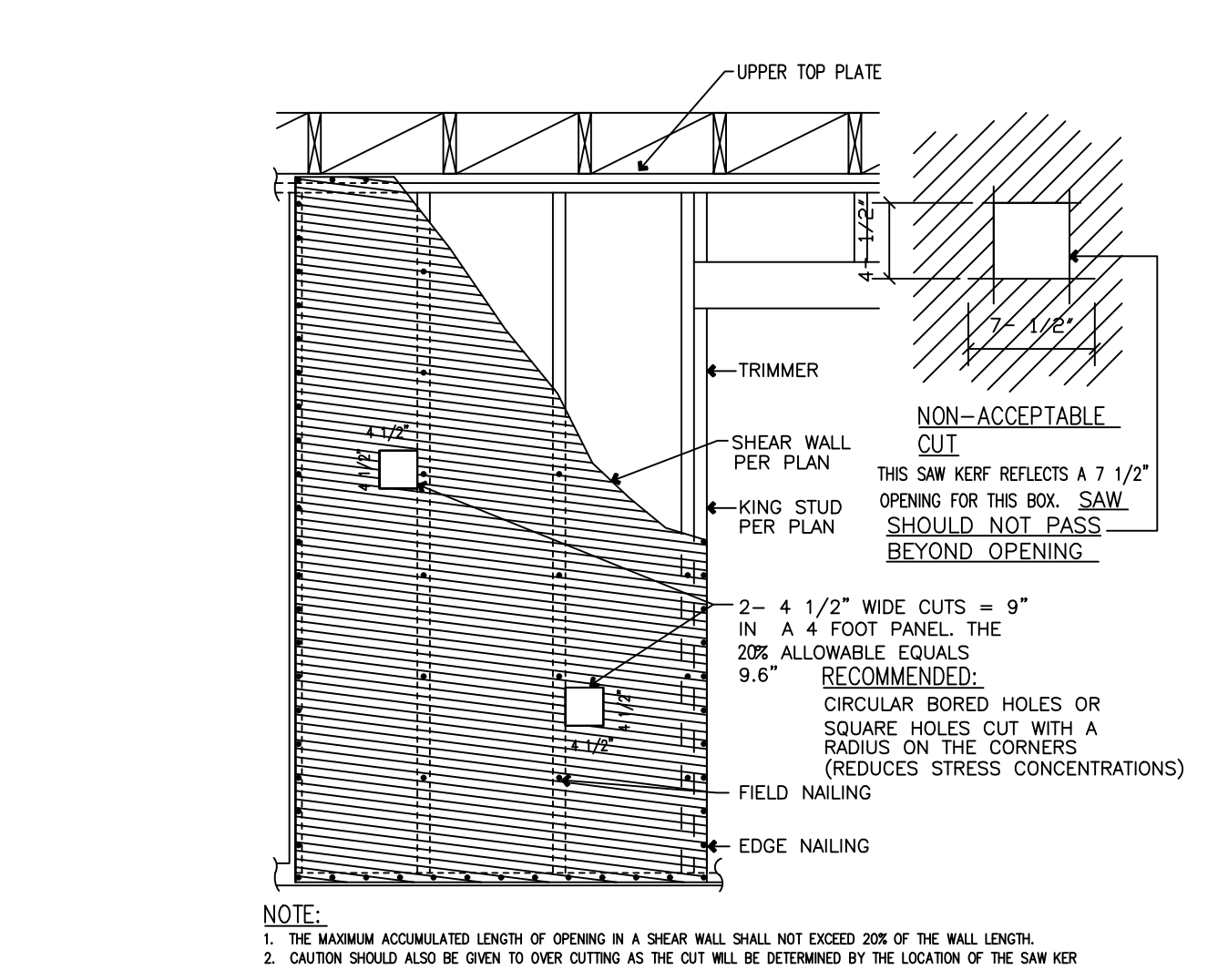
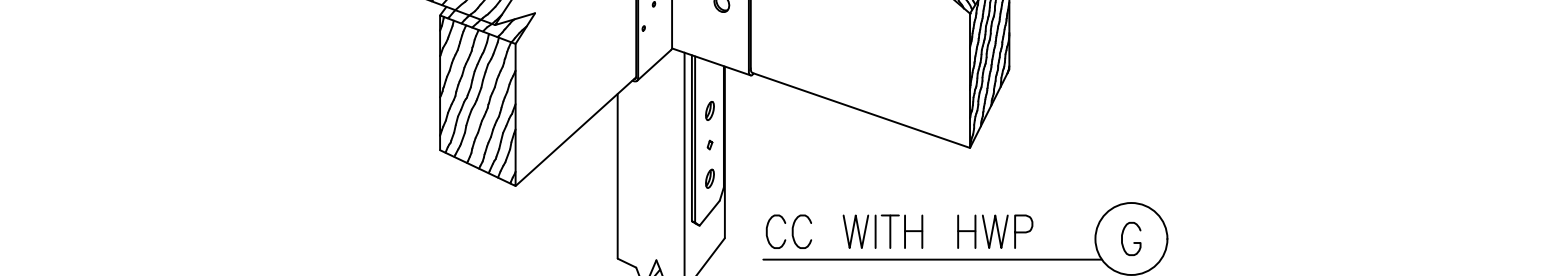
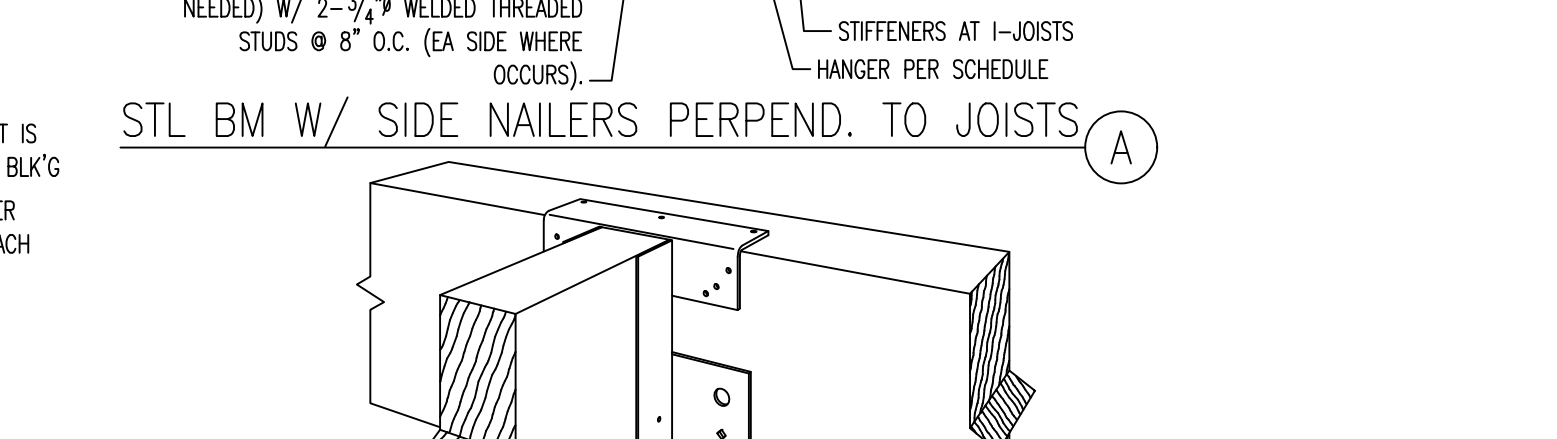
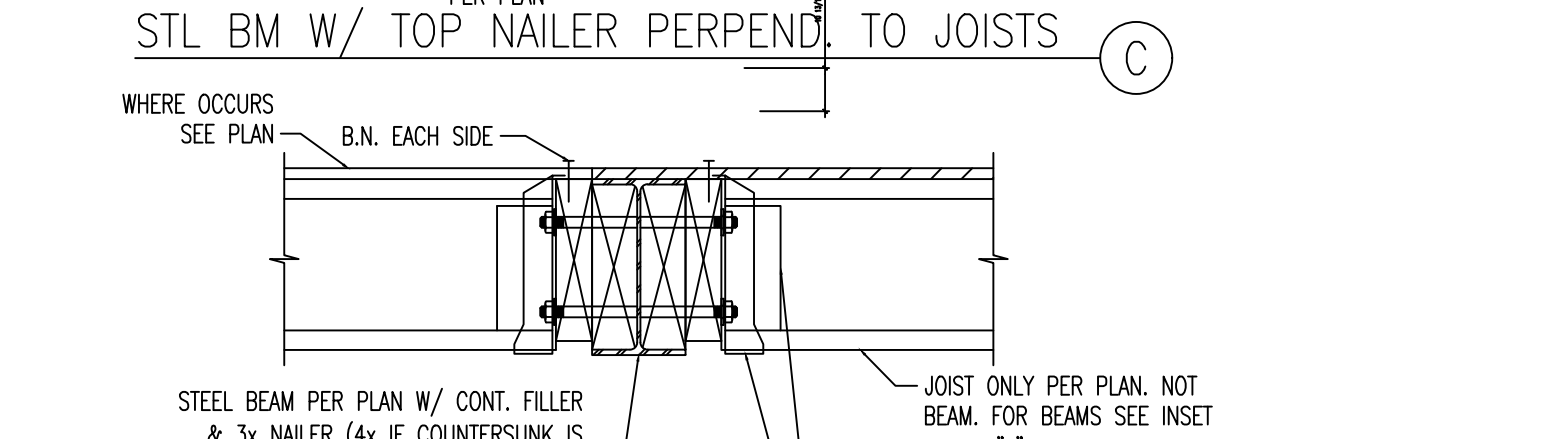
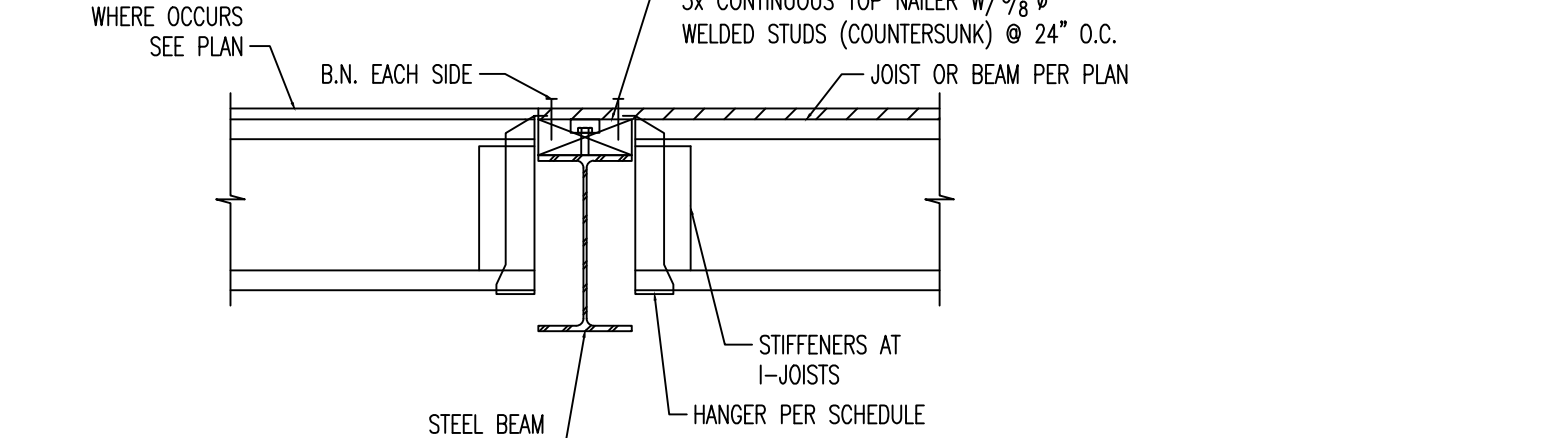
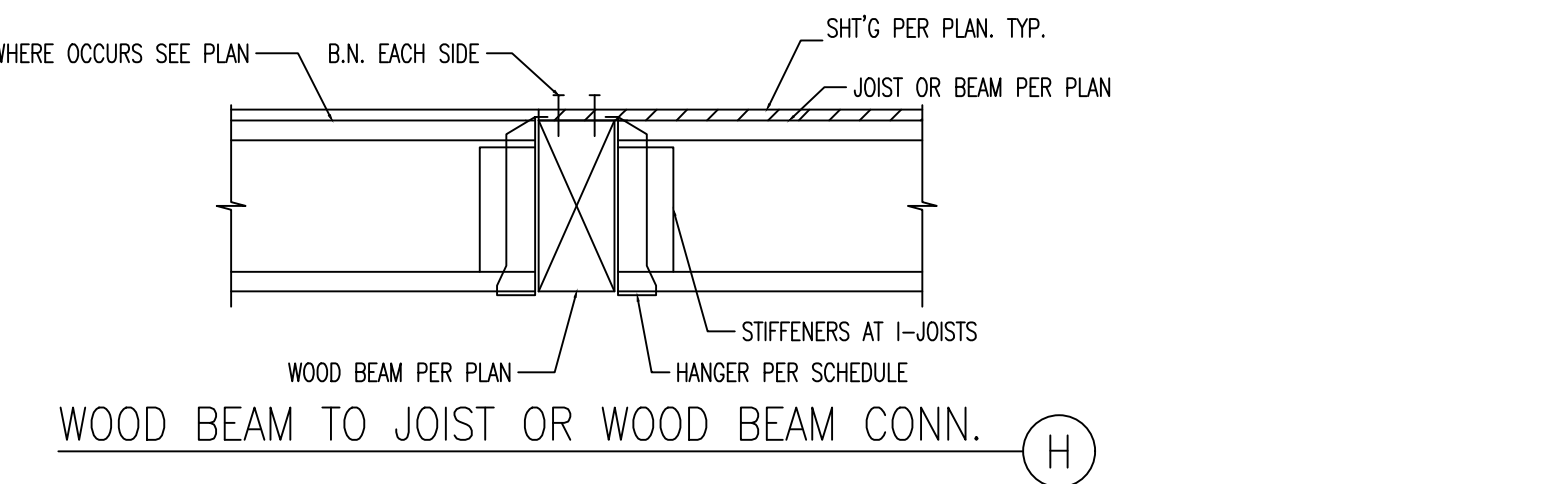
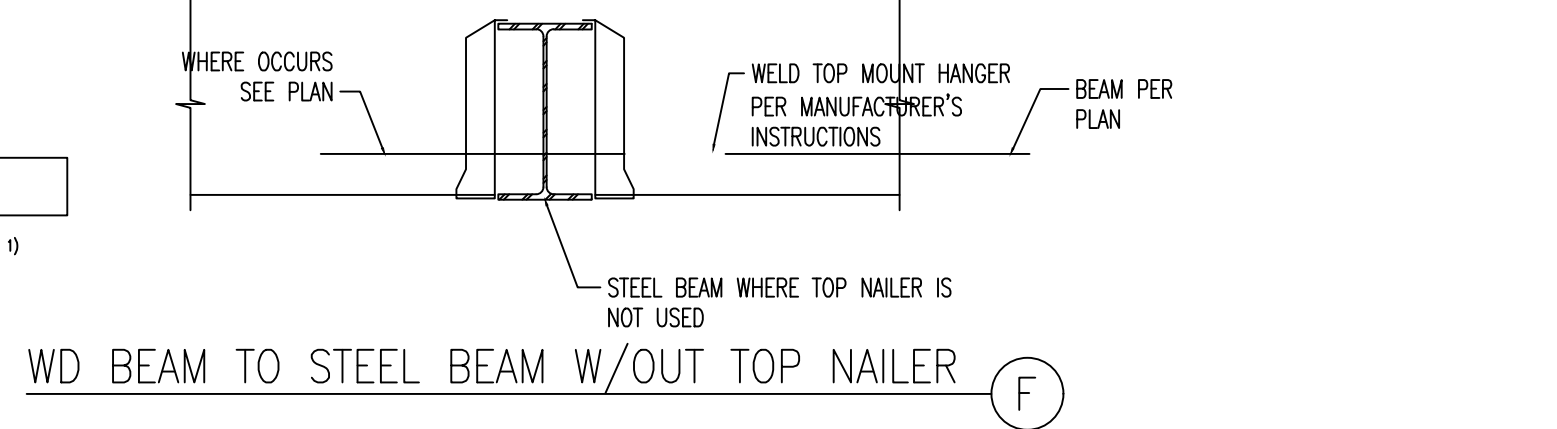
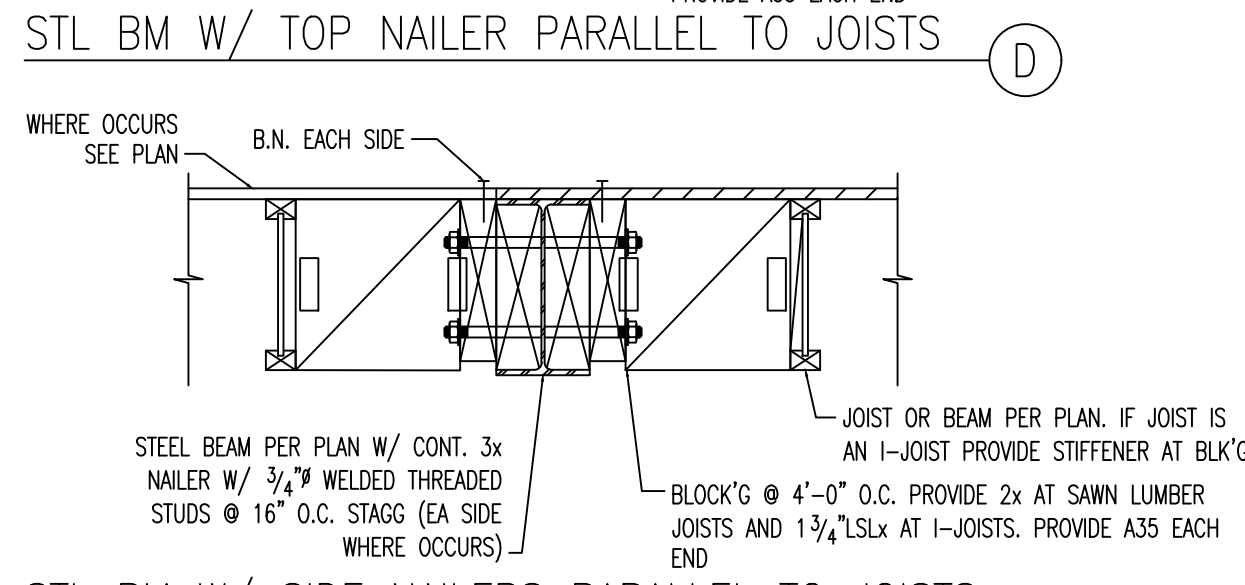
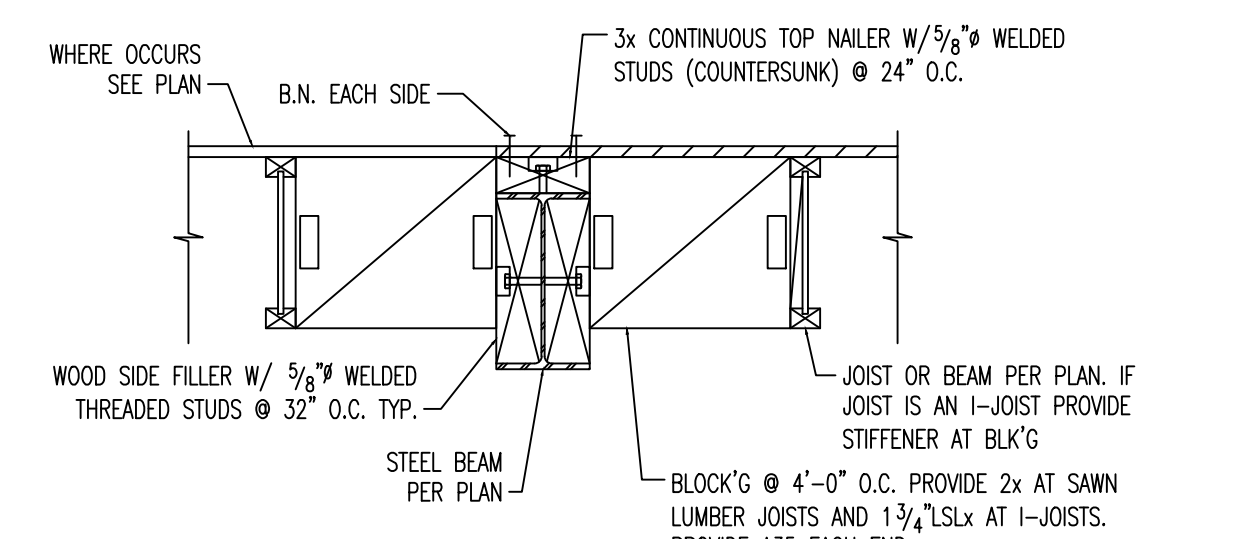
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| 7 of 15 SHEETS  |
| JOB No 2211-547 |



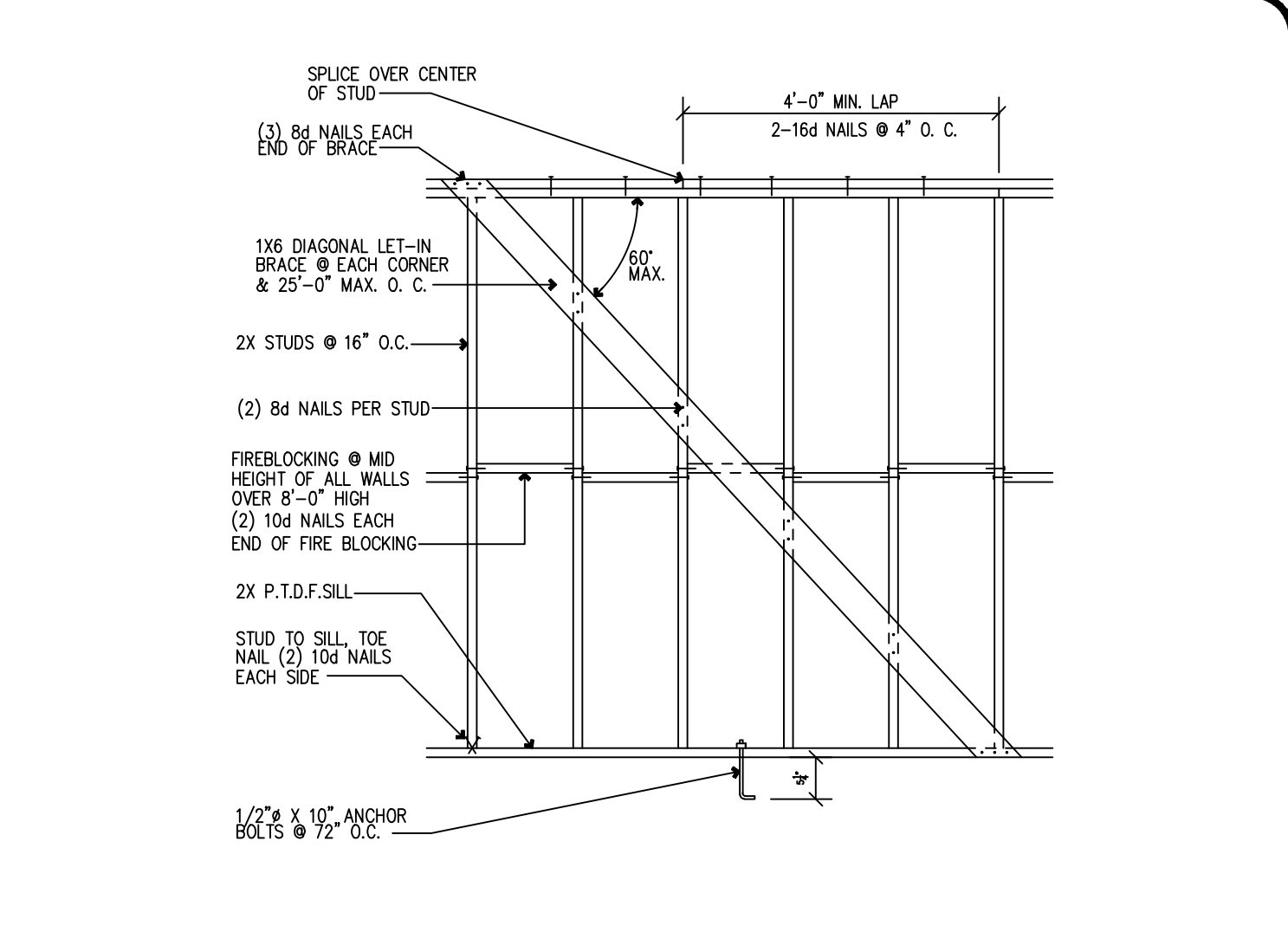
| TOP MOUNT HANGER                                  |                                     | FACE MOUNT HANGER                                |   |
|---|-------------------------------------|--|---|
| HANGER SCHEDULE - MANUFACTURER: SIMPSON STRONGTIE |                                     |  |   |
| JOIST/BEAM SIZE                                   | HANGER TYPE                         | JOIST/BEAM SIZE                                  | HANGER TYPE                                   |
| ALL SWN LUMBER U.N.O.                             | SIMPSON HUTF ESR-2553 COLA R252001  | ALL SAWN LUMBER U.N.O.                           | SIMPSON HU ESR-2549 COLA R252001 (SEE NOTE 1) |
| 2x6 THRU 2x16                                     | SIMPSON LB ESR-2553 COLA R252001    | 2x6 THRU 2x10                                    | SIMPSON LUS ESR-2549 COLA R252001             |
| 2-2x6 THRU 2-2x14                                 | SIMPSON HUSTF ESR-2553 COLA R252001 | 2-2x6 THRU 2-2x10                                | SIMPSON LUS ESR-2549 COLA R252001             |
| 4x6 THRU 4x14                                     | SIMPSON HUSTF ESR-2553 COLA R252001 | 4x6 THRU 4x16                                    | SIMPSON HHUS ESR-2552 COLA R252001            |
| ALL I-JOIST U.N.O.                                | SIMPSON LBV ESR-2615 COLA R262001   | ALL I-JOIST U.N.O.                               | SIMPSON MIU ESR-2552 COLA R252001             |
| SINGLE I-JOIST TO WOOD BEAM 9 1/4 THRU 16 DEEP    | SIMPSON ITS ESR-2615 COLA R262001   | SINGLE I-JOIST TO WOOD BEAM 9 1/4 THRU 16 DEEP   | SIMPSON IUS ESR-2552 COLA R252001             |
| ALL PSL/LVL/LSL BEAMS U.N.O.                      | SIMPSON HGLTV ESR-2615 COLA R262001 | ALL PSL/LVL/LSL BEAMS U.N.O.                     | SIMPSON HGU ESR-2552 COLA R252001             |
| 3 1/2" AND 5 1/4" PSL/LVL/LSL UP TO 11 7/8" DEEP  | SIMPSON GLTV ESR-2615 COLA R262001  | 3 1/2" AND 5 1/4" PSL/LVL/LSL UP TO 11 7/8" DEEP | SIMPSON MGU ESR-2552 COLA R252001             |
| ALL GLULAM BEAMS U.N.O.                           | SIMPSON EG ESR-2615 COLA R262001    | ALL GLULAM BEAMS U.N.O.                          | SIMPSON HHGU ESR-2552 COLA R252001            |

NOTES:  
 1. PROVIDE TOP MOUNT HANGERS. FACE MOUNT HANGERS SHALL BE ALLOWED ONLY WHERE SPECIFICALLY INDICATED ON THE PLANS OR DETAILS.  
 2. PROVIDE SKEWED, SLOPED HANGERS AS REQ'D.  
 3. PROVIDE OFFSET OR CONCEALED FLANGE HANGERS AT EDGE CONDITIONS AS NEEDED.

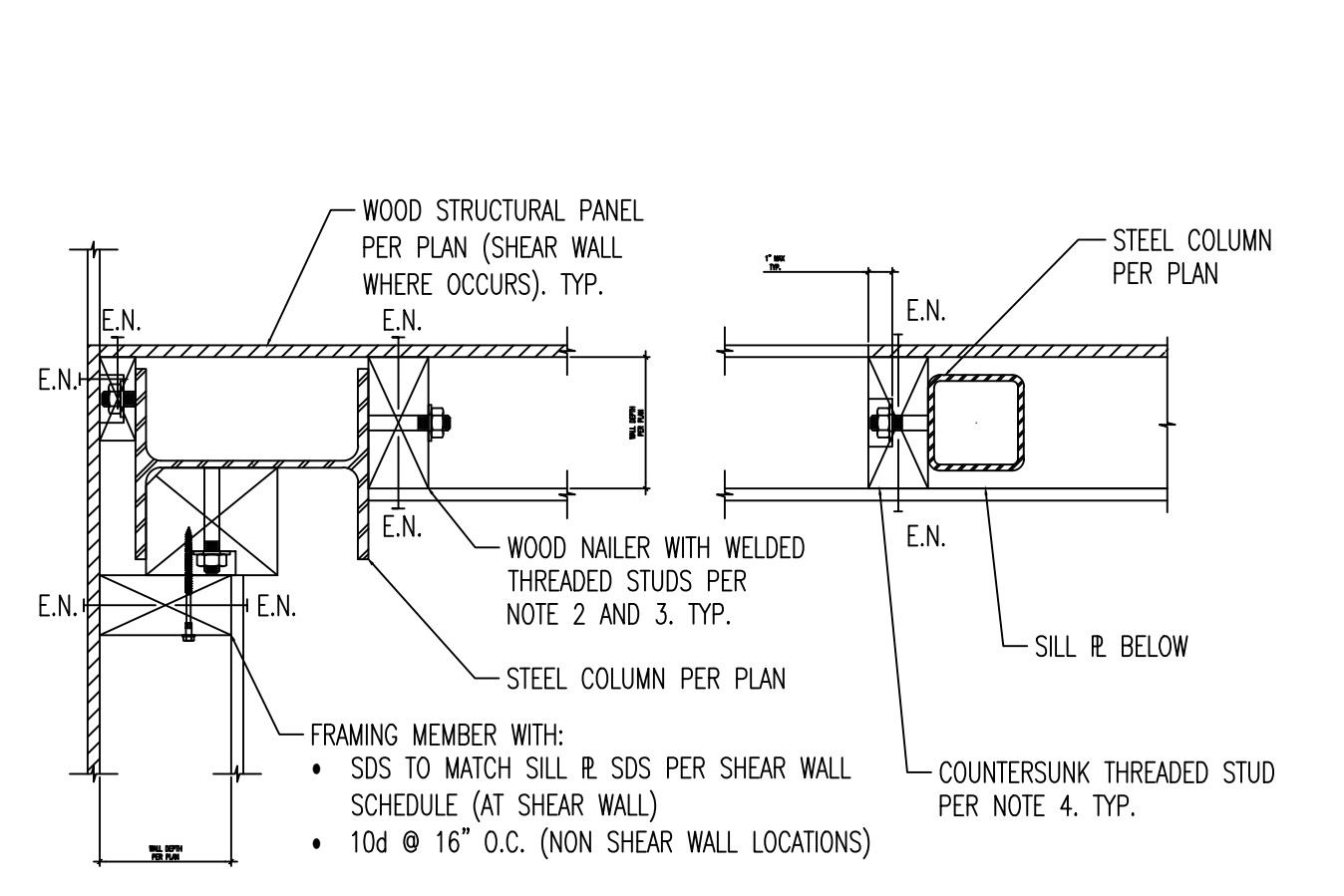
HANGER SCHEDULE



NOTE:  
 1. THE MAXIMUM ACCUMULATED LENGTH OF OPENING IN A SHEAR WALL SHALL NOT EXCEED 20% OF THE WALL LENGTH.  
 2. CAUTION SHOULD ALSO BE GIVEN TO OVER CUTTING AS THE CUT WILL BE DETERMINED BY THE LOCATION OF THE SAW KERF.

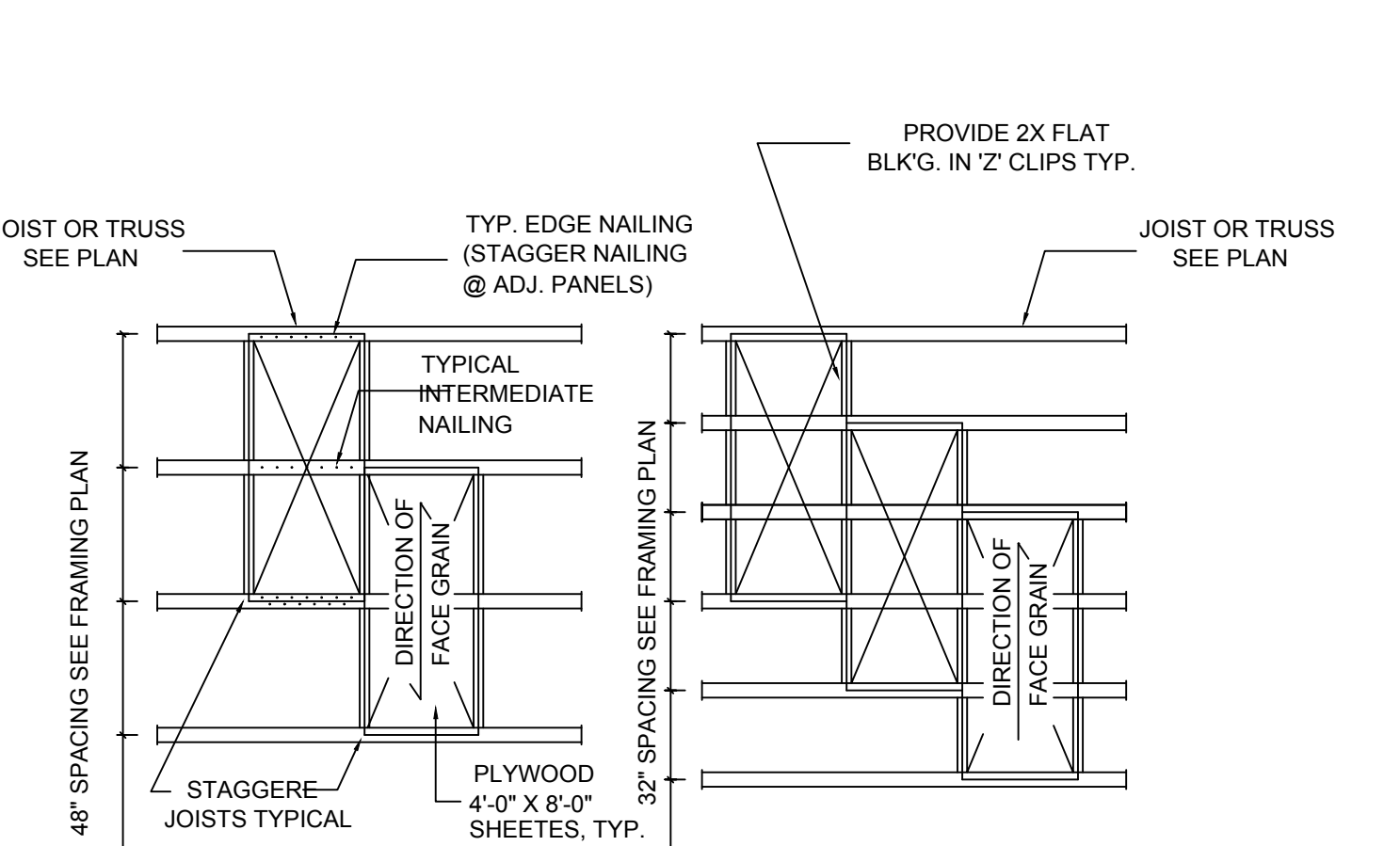


3 MECH. PENETRATIONS OF WD SW

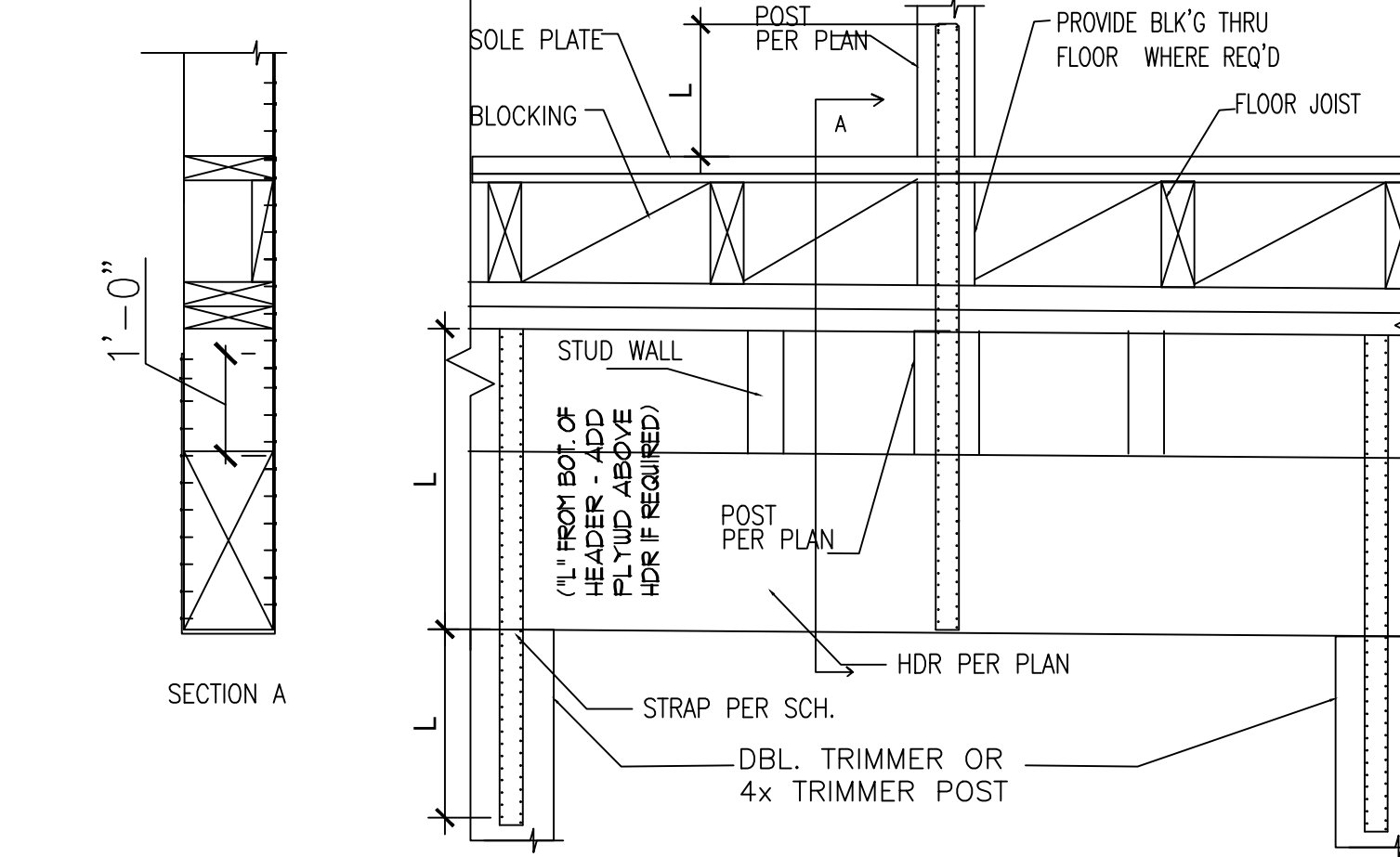


PLAN VIEW  
 3. WOOD NAILERS SIZE AND CONNECTION: WOOD NAILERS SHALL BE CONNECTED WITH 5/8" WELDED THREADED ANCHORS TO THE STEEL SECTIONS. SPACING AND NOMINAL THICKNESS OF WOOD NAILERS SHALL BE:  
 A. AT NAILERS CONNECTED TO SHEAR WALL STRUCTURAL PANELS COUNTERSUNK ONLY IF NAILER IS 3x OR LARGER  
 B. AT NAILERS NEEDED ONLY FOR INSTALLATION OF FINISH MATERIAL COUNTERSINKING SHALL BE ALLOWED AS NEEDED FOR PROPER INSTALLATION OF FINISH MATERIAL

4 TYPICAL WALL CONSTRUCTION

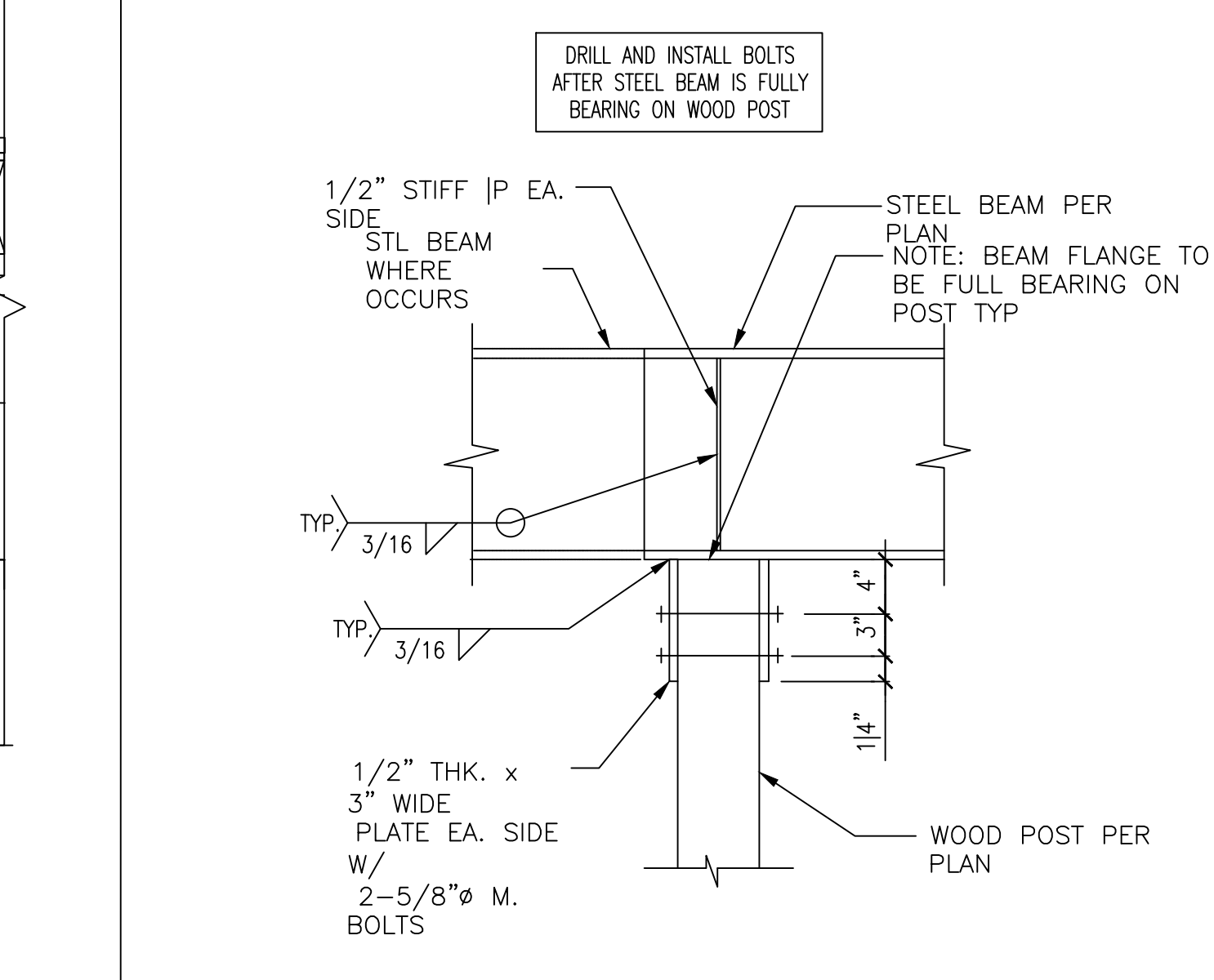


5 TYP. BEAM/JOIST CONNECTIONS

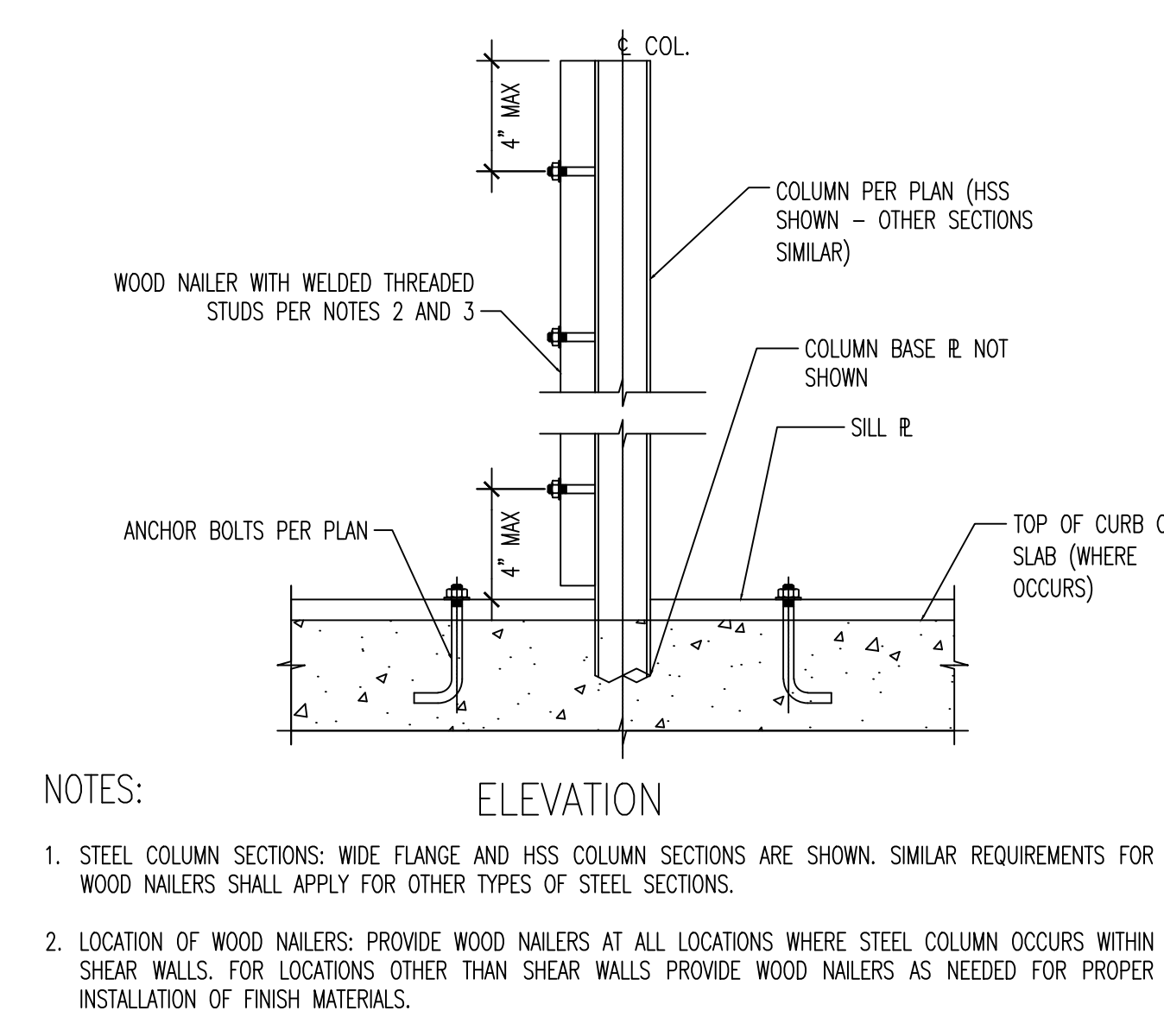


| TYPE | STRAP     | MIN. L | MIN. NAILS PER L | CAPACITY | 75%      |
|------|-----------|--------|------------------|----------|----------|
| A    | C8-16     | 1'-2"  | (11) 8d          | 1705 lbs | 1275 lbs |
| B    | (2) C8-16 | 1'-2"  | (11) 8d          | 3410 lbs | 2555 lbs |
| C    | CMSTC-16  | 2'-0"  | (28) 16d SINKER  | 4585 lbs | 3438 lbs |
| D    | CMST-14   | 3'-0"  | (38) 10d         | 6490 lbs | 4865 lbs |
| E    | CMST-12   | 4'-0"  | (50) 10d         | 9215 lbs | 6911 lbs |

10 STL BEAM TO ISOLATED WOOD POST CONNECTION



11 STEEL COLUMN IN STUD WALL



NOTE:  
 1. STEEL COLUMN SECTIONS: WIDE FLANGE AND HSS COLUMN SECTIONS ARE SHOWN. SIMILAR REQUIREMENTS FOR WOOD NAILERS SHALL APPLY FOR OTHER TYPES OF STEEL SECTIONS.  
 2. LOCATION OF WOOD NAILERS: PROVIDE WOOD NAILERS AT ALL LOCATIONS WHERE STEEL COLUMN OCCURS WITHIN SHEAR WALLS. FOR LOCATIONS OTHER THAN SHEAR WALLS PROVIDE WOOD NAILERS AS NEEDED FOR PROPER INSTALLATION OF FINISH MATERIALS.

9 HOLDOWN THRU. FLOOR ON HDR

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REGISTERED PROFESSIONAL ENGINEER  
 State of California  
 No. C82330  
 Exp. 03-31-2024  
 CIVIL

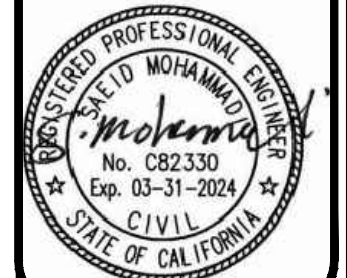
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SD-5  
 8 OF 15 SHEETS  
 JOB No 2211-547



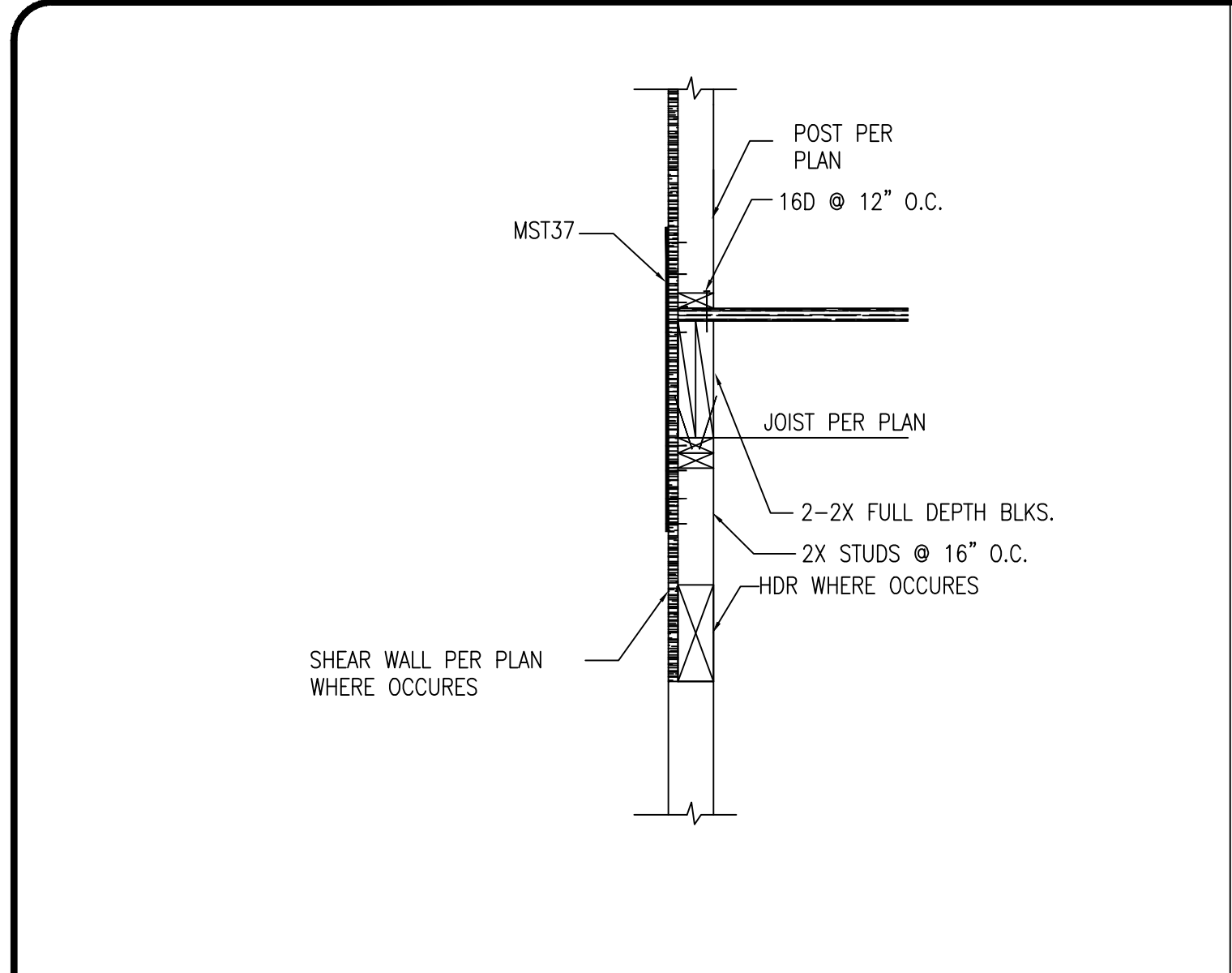
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| REVISIONS |
| DATE      |
| NO.       |

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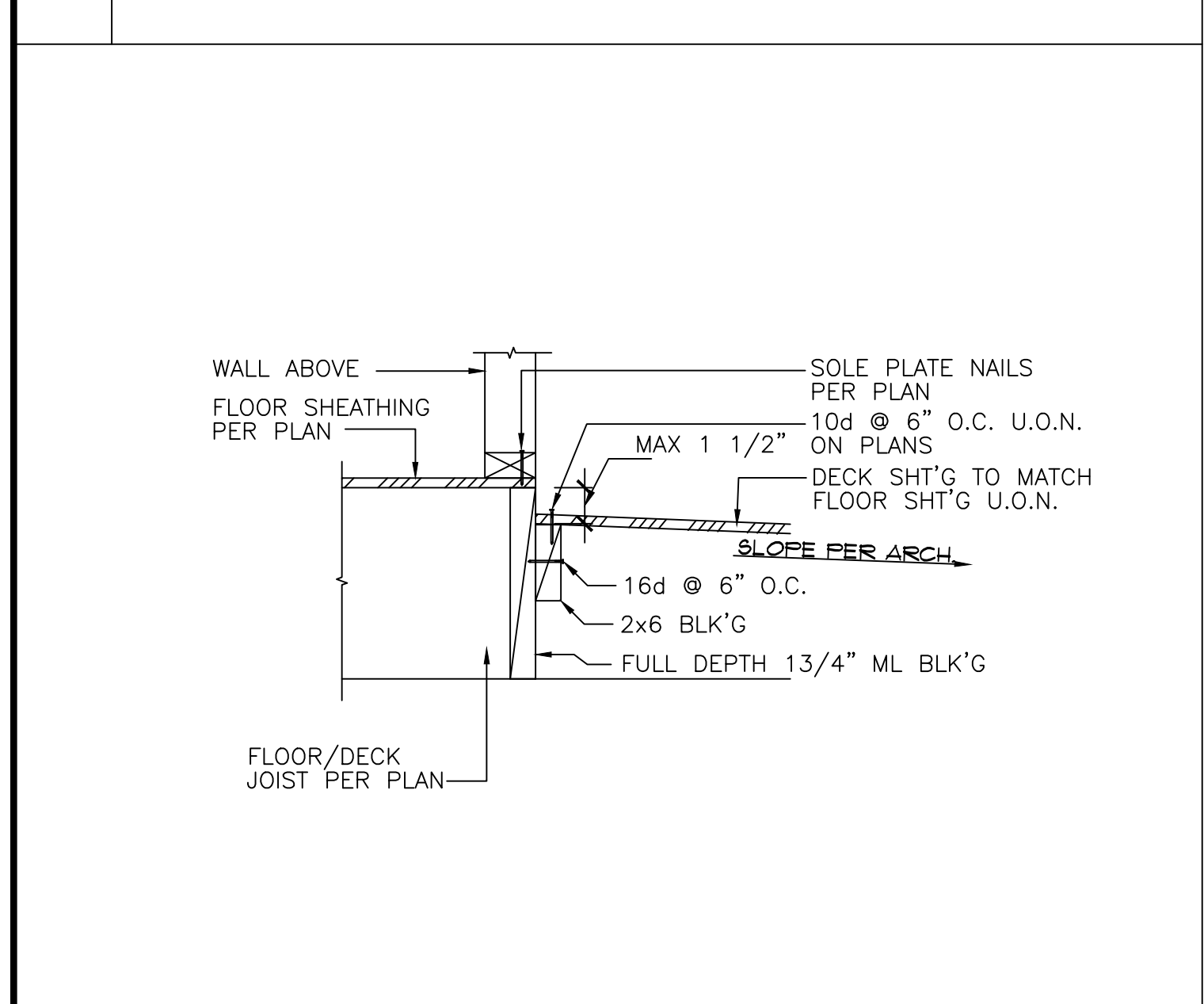


DETAILS

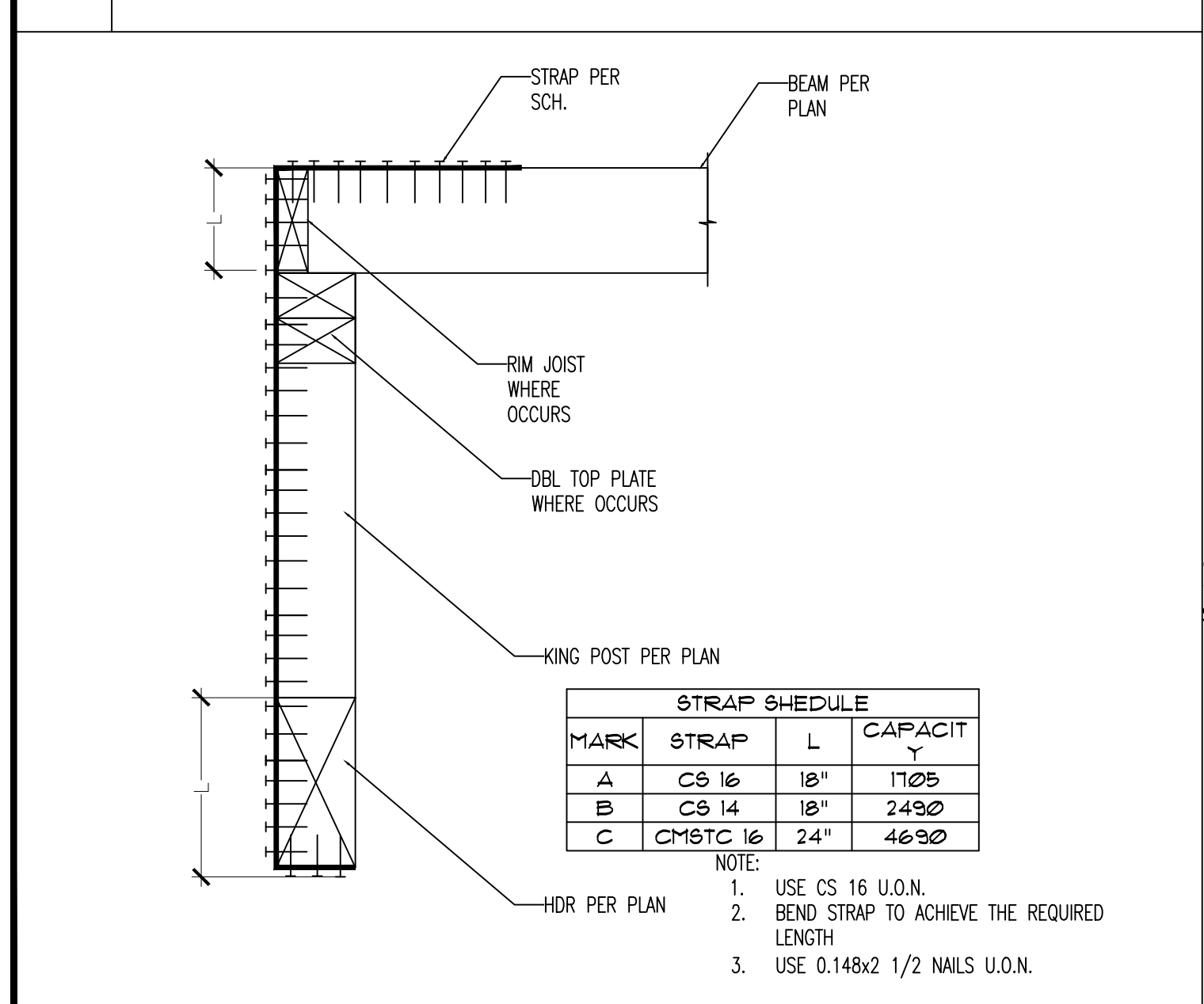
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| 9 OF 15 SHEETS  |
| JOB No 2211-547 |



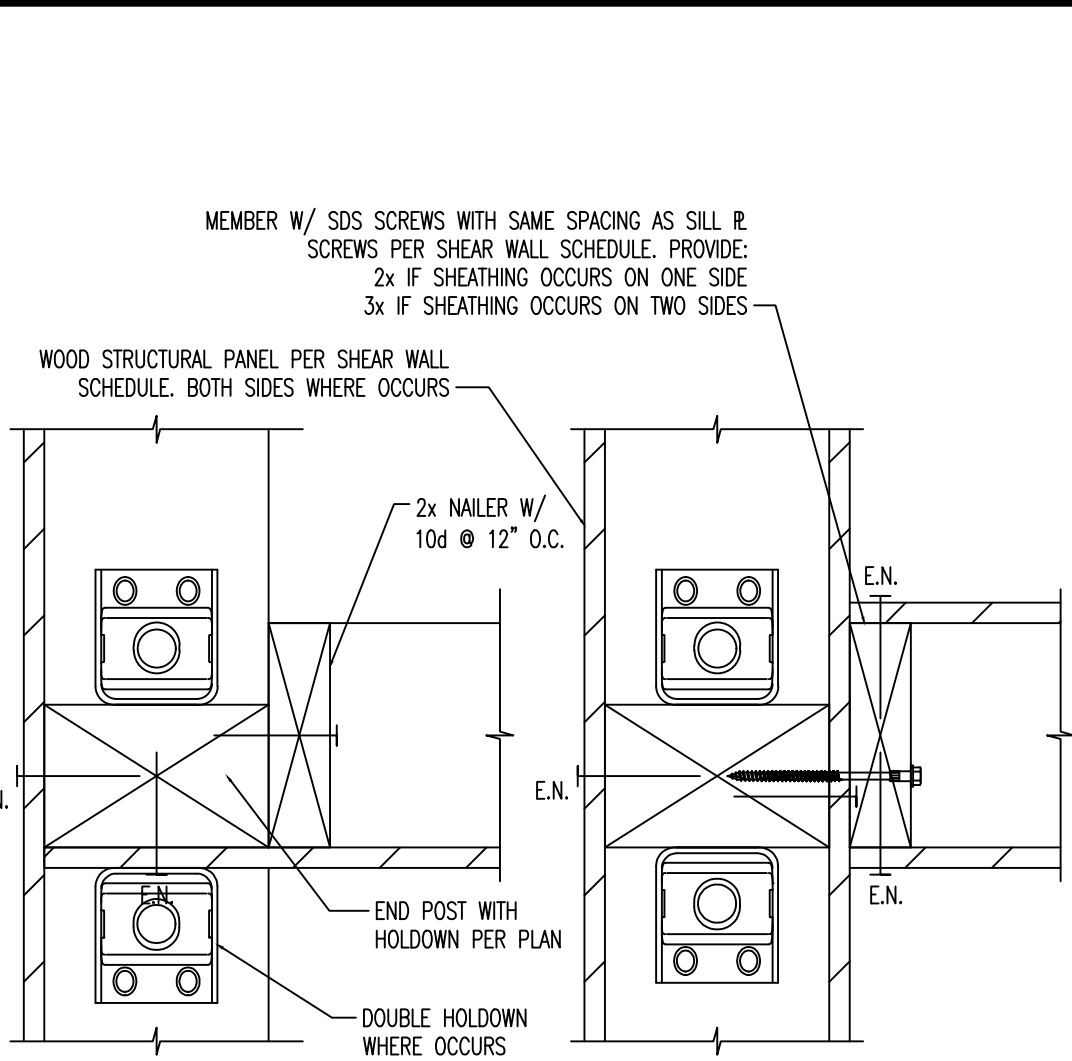
1 VER. STRAP DET.



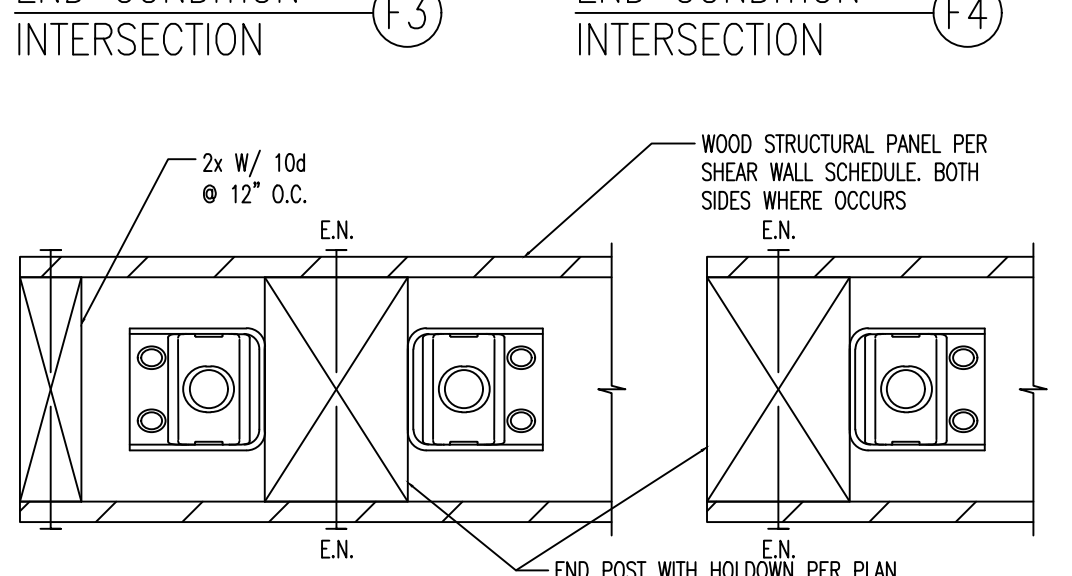
5 SHEAR TRANSFER @ DRILL/NOTCH D/J



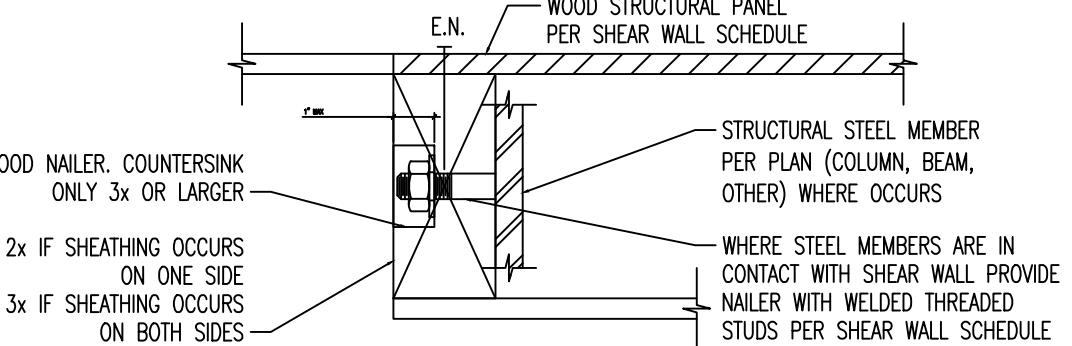
9 BM TO HEADER



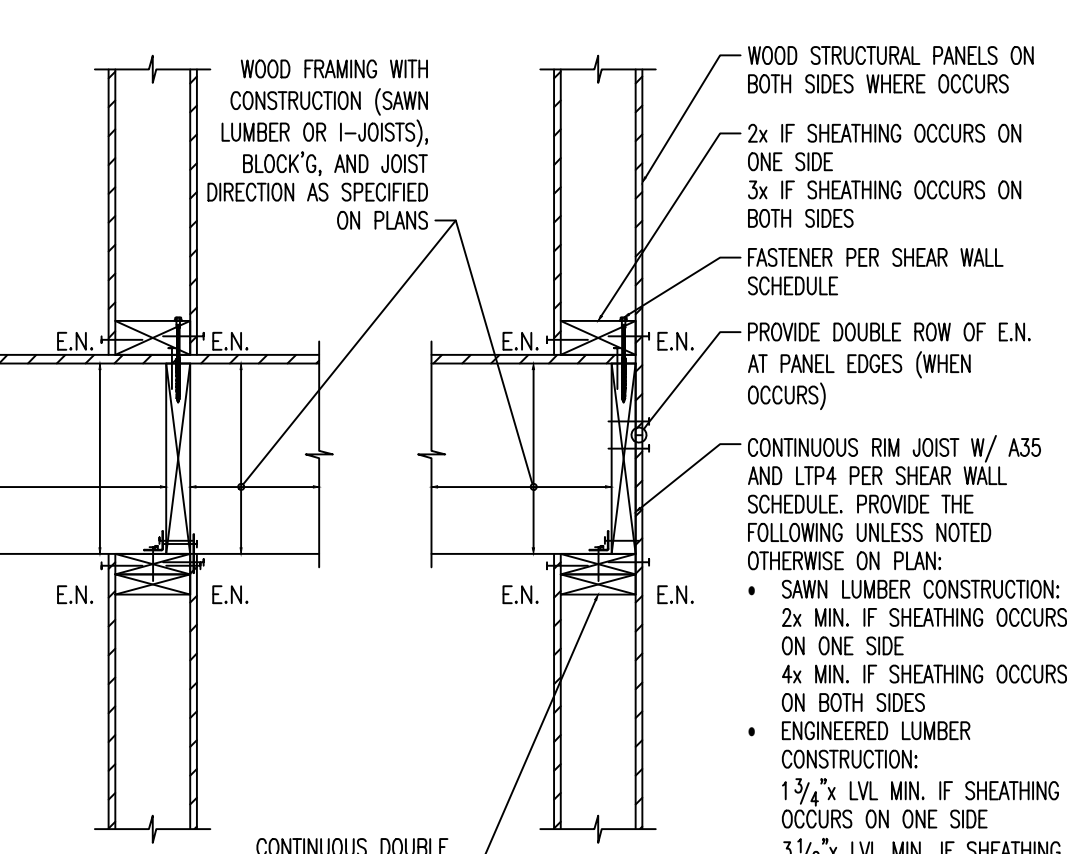
END CONDITION INTERSECTION F3 F4



END CONDITION DOUBLE HOLDOWN F5 F6

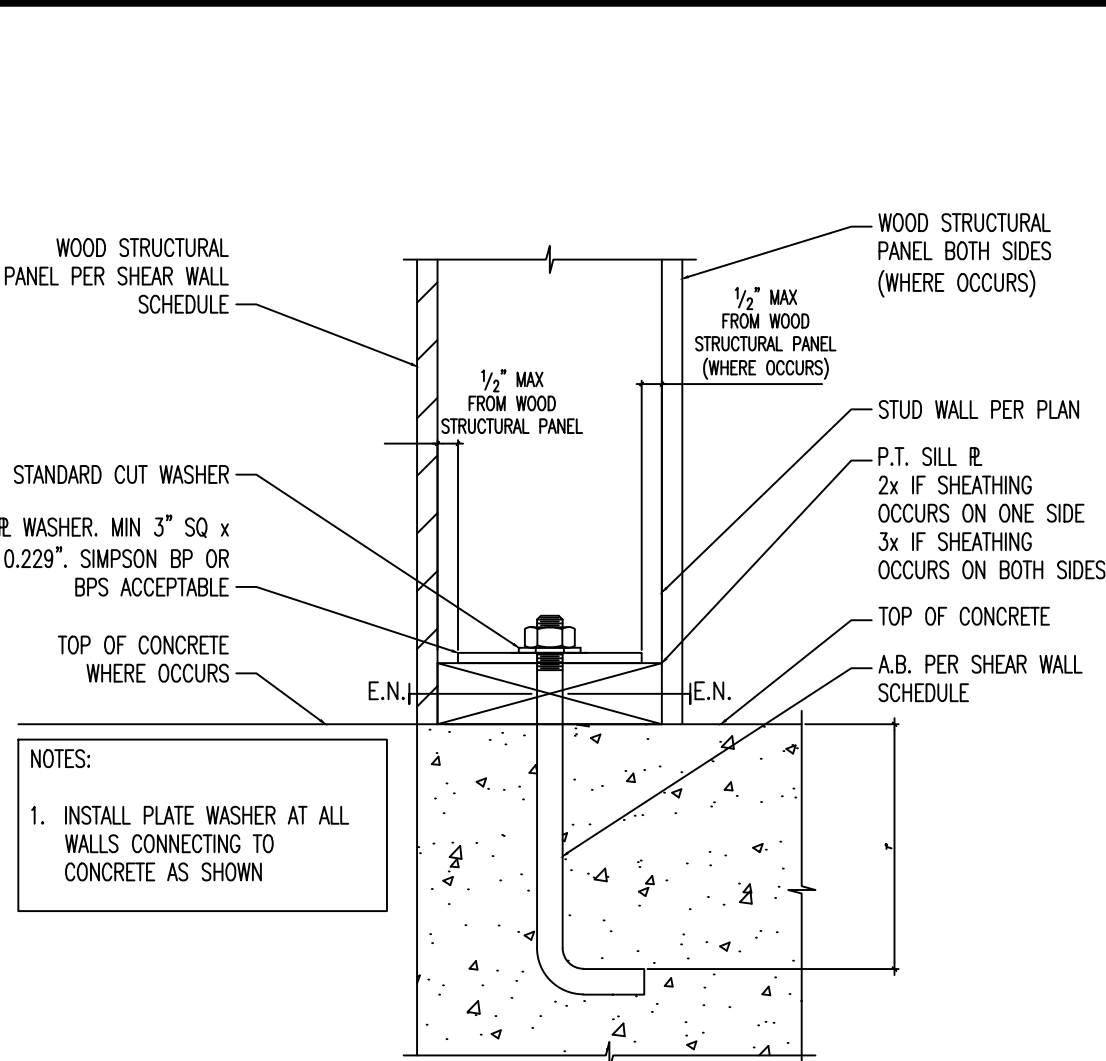


G STEEL MEMBER IN CONTACT WITH SHEAR WALL

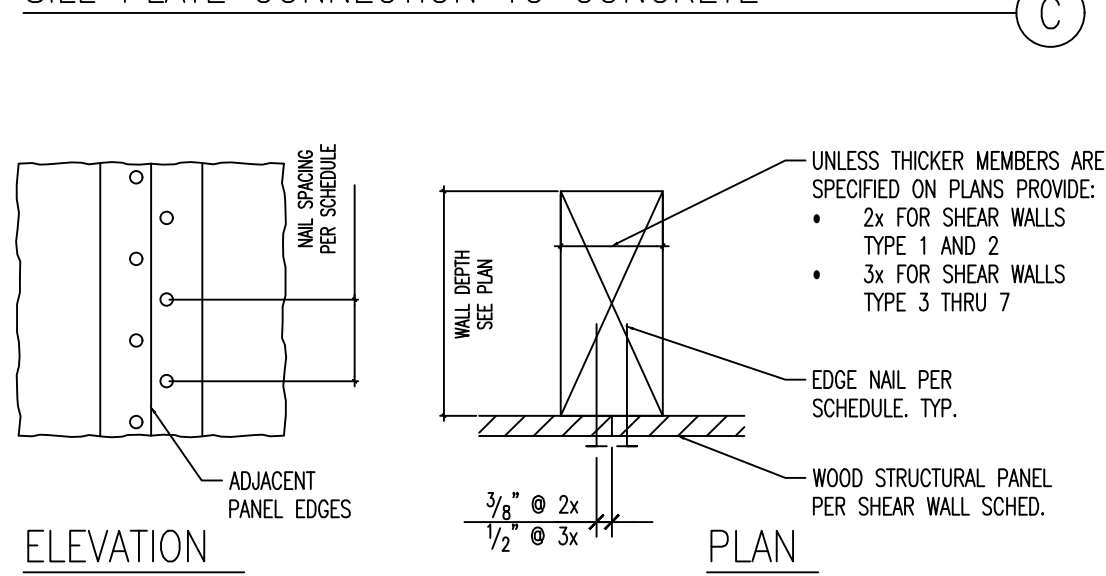


H SHEAR WALL TO FLOOR FRAMING

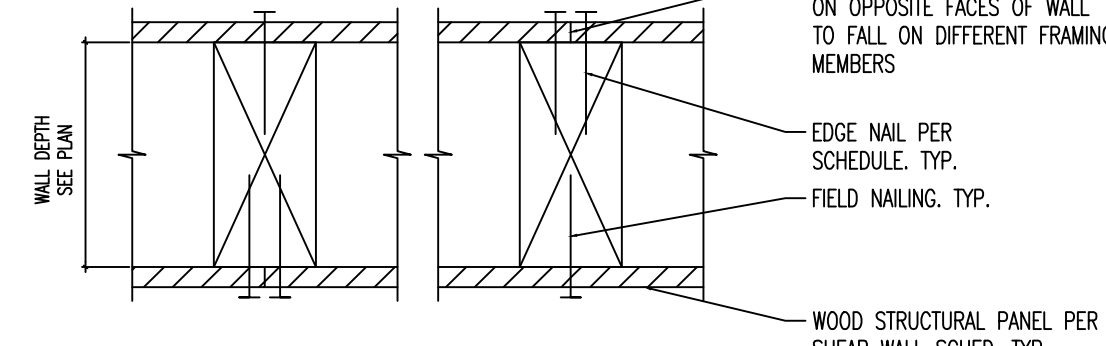
SHEAR WALL ELEVATION SCHEDULE AND DETAILS  
SCALE: N.T.S.



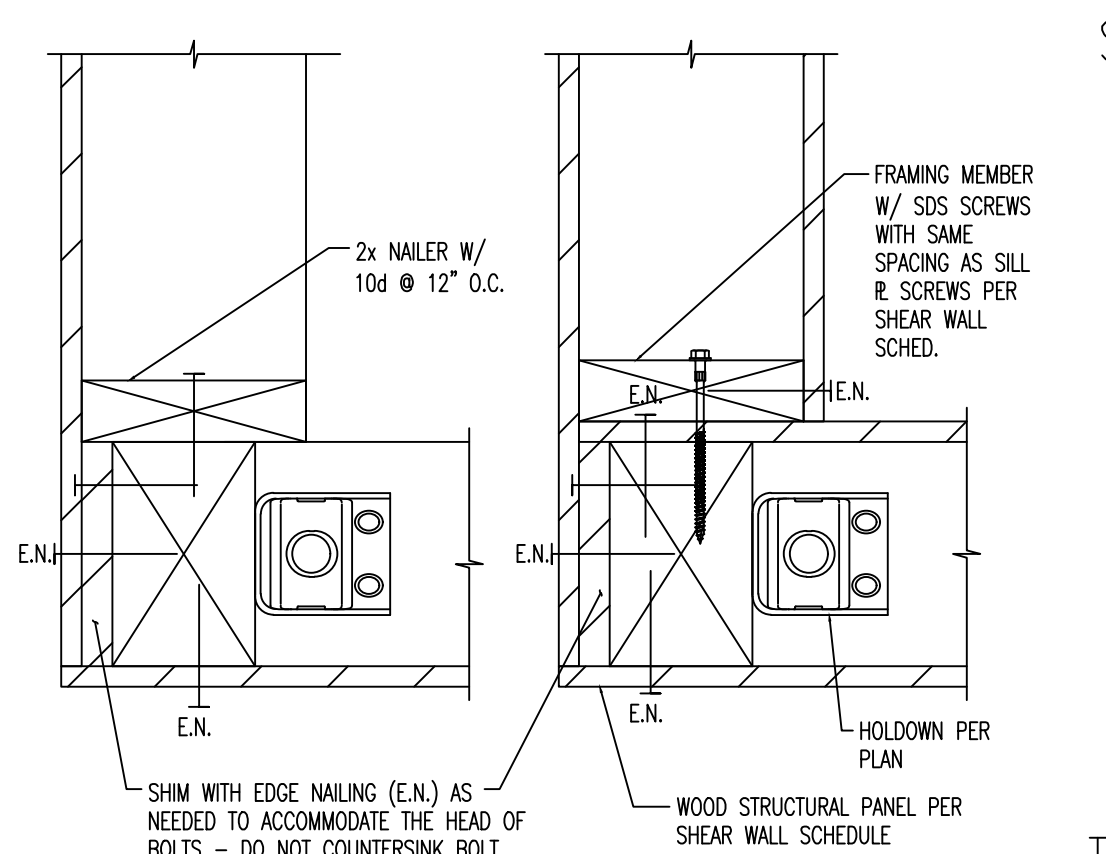
C SILL PLATE CONNECTION TO CONCRETE



D FRAMING AT ADJACENT PANEL EDGES

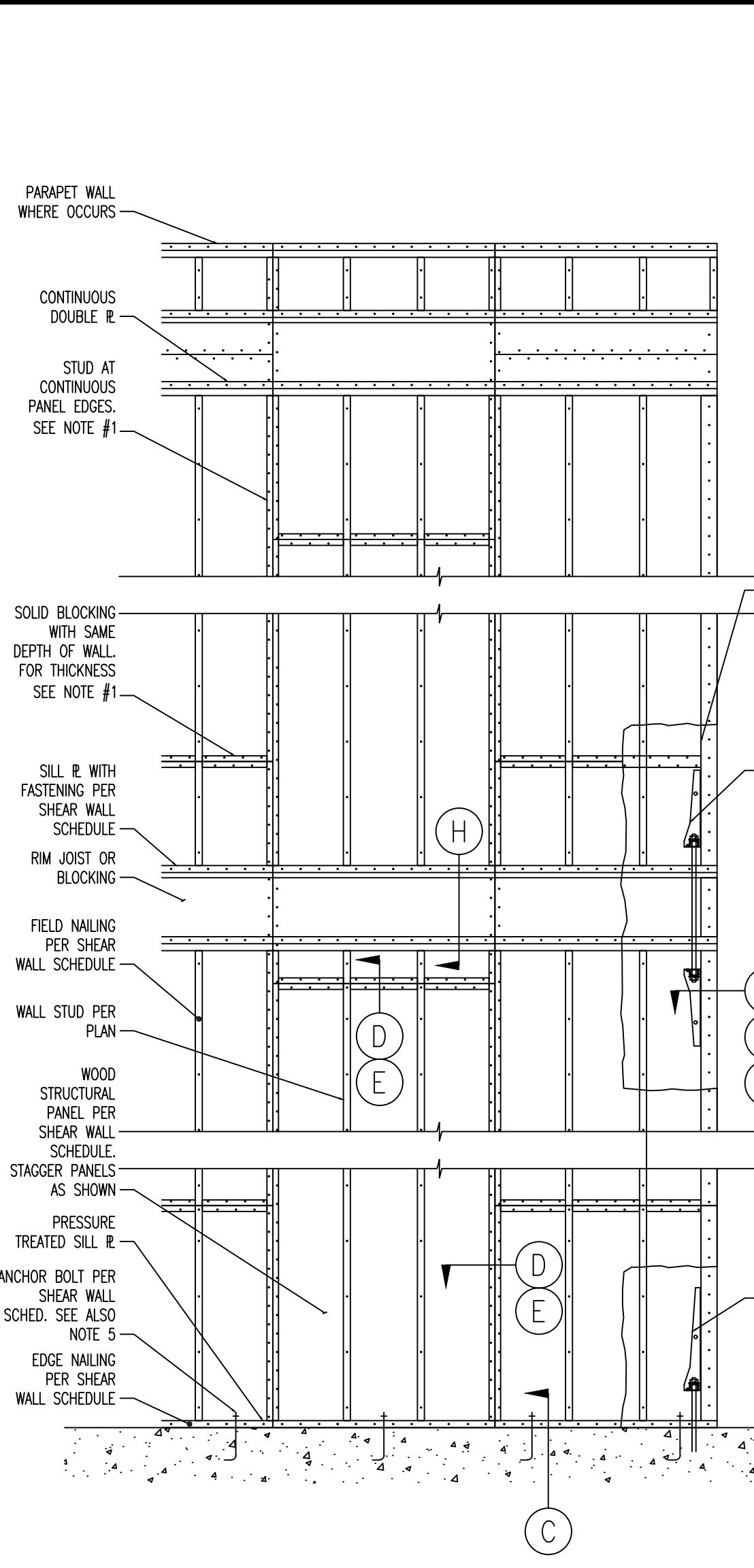


E FRAMING AT DOUBLE SIDED WALL



F1 F2 END CONDITION CORNER

SHEAR WALL ELEVATION SCHEDULE AND DETAILS

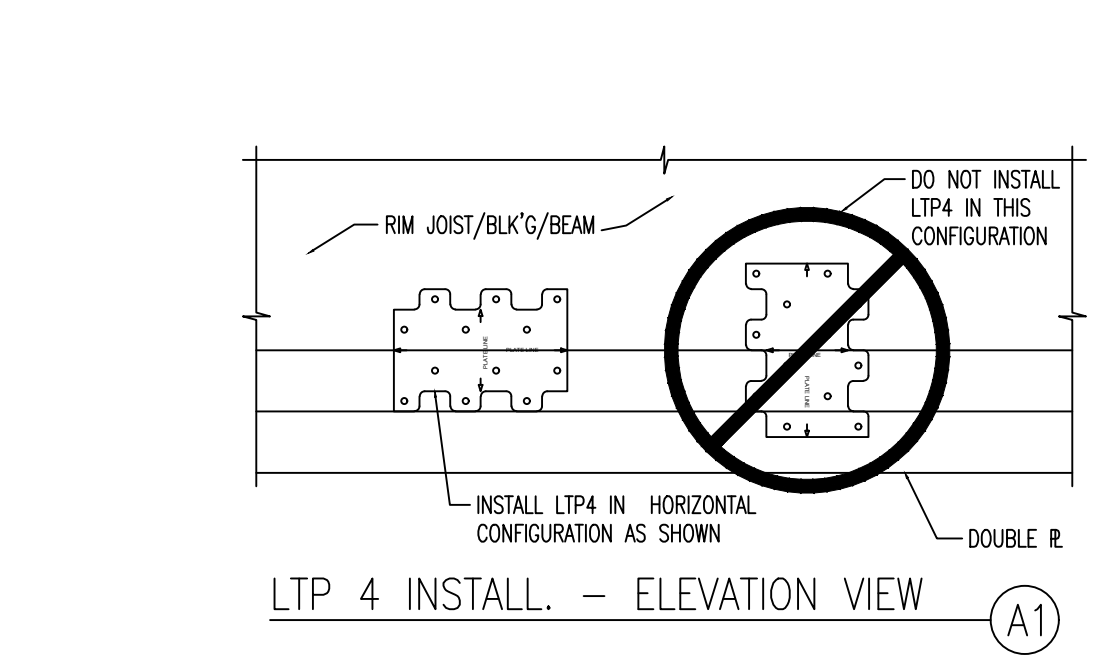


A TYPICAL SHEAR WALL ELEVATION AND NOTES

SHEAR WALL ELEVATION SCHEDULE AND DETAILS

| SHEAR WALL SCHEDULE (2019 CBC - 2018 AF&PA SDPWS - TABLE 4.3A) |   |                 |               |                |                             |                                       |                      |  |                       |  |
|--|---|-----------------|---------------|----------------|-----------------------------|---------------------------------------|----------------------|--|-----------------------|--|
| MARK   | WOOD STRUCTURAL PANELS (5-PLY PLYWOOD OR OSB U.O.N. ON THE PLANS) | NUMBER OF SIDES | NAILING       |                | SHEAR CLIPS (A35 OR LTP4)   | SILL R ATTACHMENT U.O.N. FRAMED FLOOR | CONCRETE             | WELDED THREADED STUDS AT WOOD NAILERS (WHERE OCCURS) | ALLOWABLE SHEAR (PLF) | ALLOW. SHEAR AT FIRE TREATED WALLS (PLF) |
|  |   |                 | EDGE (E.N.)   | FIELD (F.N.)   |                             |                                       |                      |  |                       |  |
| 1  | 15/32" APA RATED SHEATHING (PI 32/16)                             | 1               | 8d @ 6" O.C.  | 8d @ 12" O.C.  | 1 @ 16" O.C.                | SDS @ 16" O.C.                        | 5/8" A.B. @ 48" O.C. | 5/8" @ 24" O.C.                                      | 260                   |  |
| 2  | 15/32" APA RATED SHEATHING (PI 32/16)                             | 1               | 8d @ 4" O.C.  | 8d @ 12" O.C.  | 1 @ 16" O.C.                | SDS @ 12" O.C.                        | 5/8" A.B. @ 48" O.C. | 5/8" @ 24" O.C.                                      | 380                   |  |
| 3  | 15/32" APA RATED STRUCT-I SHEATHING (PI 32/16)                    | 1               | 10d @ 4" O.C. | 10d @ 12" O.C. | 1 @ 16" O.C.                | SDS @ 8" O.C.                         | 5/8" A.B. @ 32" O.C. | 5/8" @ 24" O.C.                                      | 510                   |  |
| 4  | 15/32" APA RATED STRUCT-I SHEATHING (PI 32/16)                    | 1               | 10d @ 3" O.C. | 10d @ 12" O.C. | 1 @ 12" O.C.                | SDS @ 6" O.C.                         | 5/8" A.B. @ 24" O.C. | 5/8" @ 24" O.C.                                      | 665                   |  |
| 5  | 15/32" APA RATED STRUCT-I SHEATHING (PI 32/16)                    | 1               | 10d @ 2" O.C. | 10d @ 12" O.C. | 1 @ 8" O.C.                 | SDS @ 4" O.C.                         | 5/8" A.B. @ 20" O.C. | 5/8" @ 24" O.C.                                      | 870                   |  |
| 6  | 15/32" APA RATED STRUCT-I SHEATHING (PI 32/16)                    | 2               | 10d @ 3" O.C. | 10d @ 12" O.C. | 1 @ 6" O.C. OR 2 @ 12" O.C. | SDS @ 3" O.C.                         | 5/8" A.B. @ 16" O.C. | 5/8" @ 16" O.C.                                      | 1330                  |  |
| 7  | 15/32" APA RATED STRUCT-I SHEATHING (PI 32/16)                    | 2               | 10d @ 2" O.C. | 10d @ 12" O.C. | 2 @ 8" O.C.                 | SDS @ 4" O.C.                         | 5/8" A.B. @ 12" O.C. | 5/8" @ 12" O.C.                                      | 1740                  |  |

TYPICAL SHEAR WALL SCHEDULE

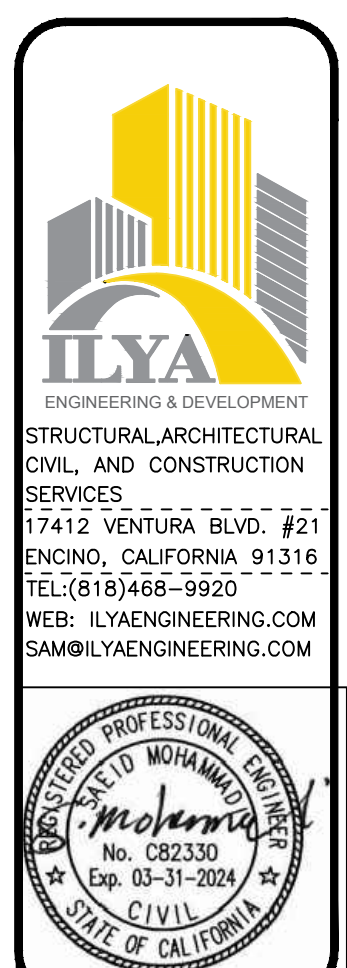


A1 LTP 4 INSTALL. - ELEVATION VIEW



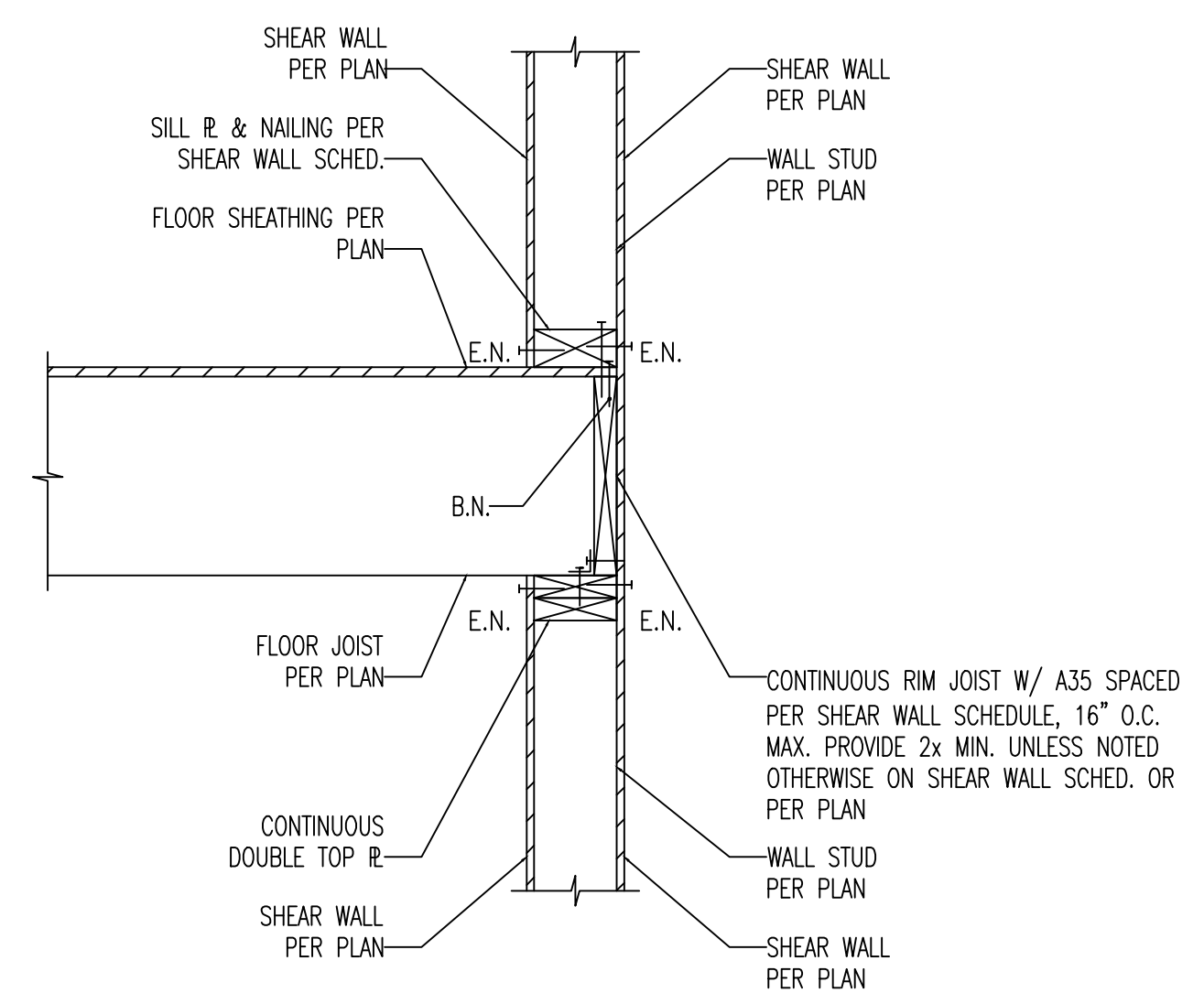
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| NO. | DATE | REVISIONS |
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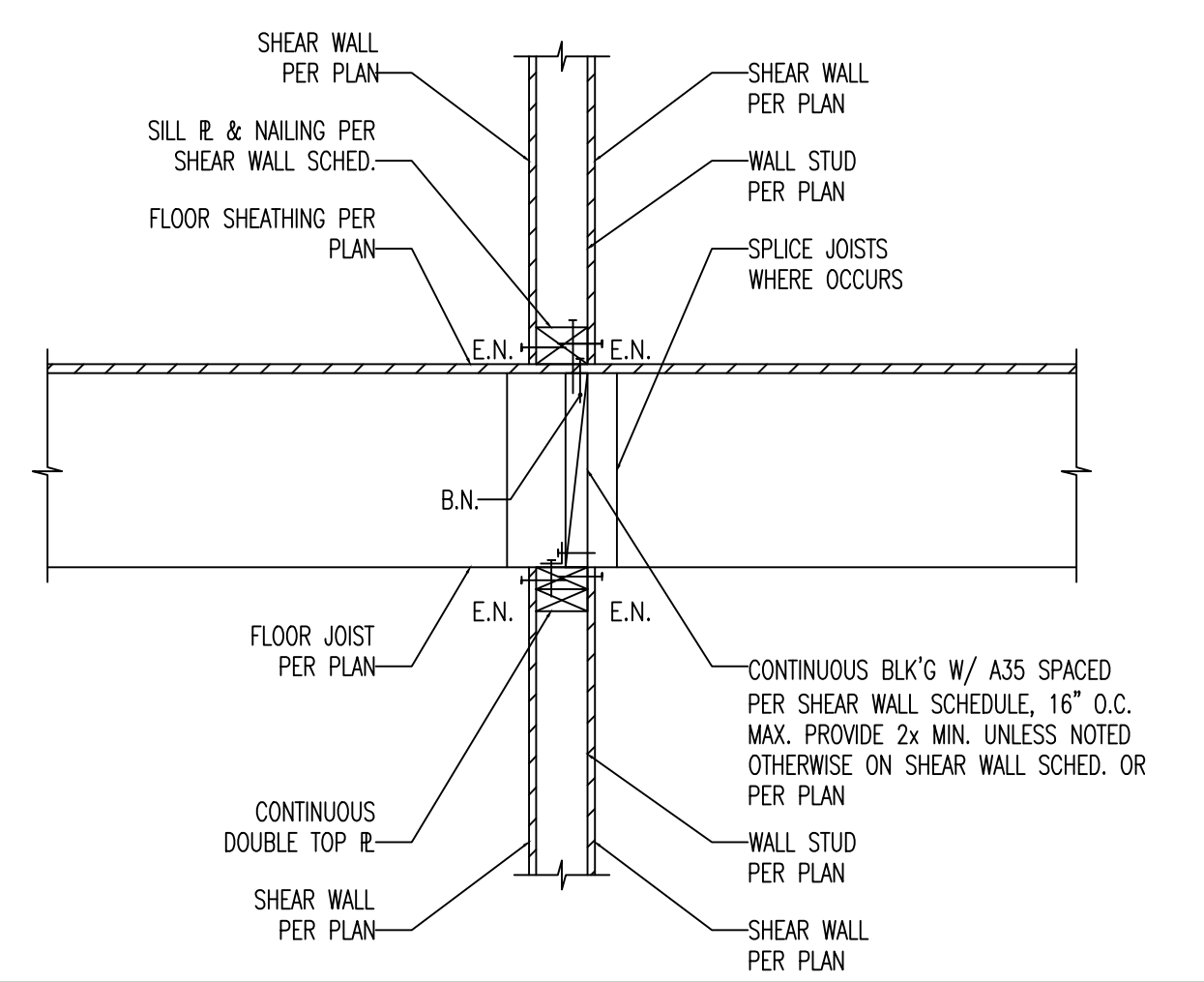


DETAILS

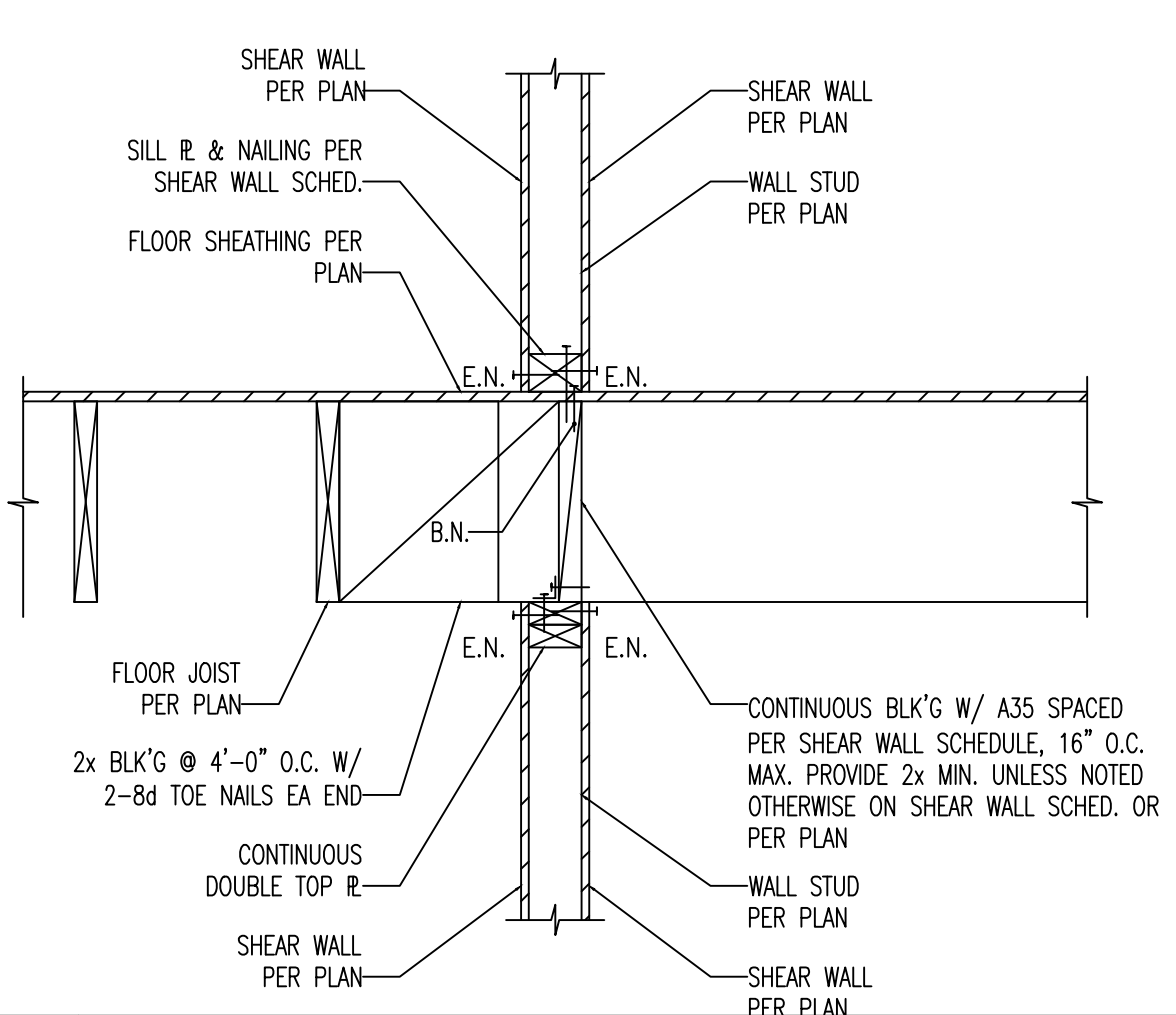
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| NAME            |        |
| DATE            | 3/3/23 |
| SCALE           |        |
| CHECKED         |        |
| SHEET           | SD-7   |
| 10 OF 15 SHEETS |        |
| JOB No 2211-547 |        |



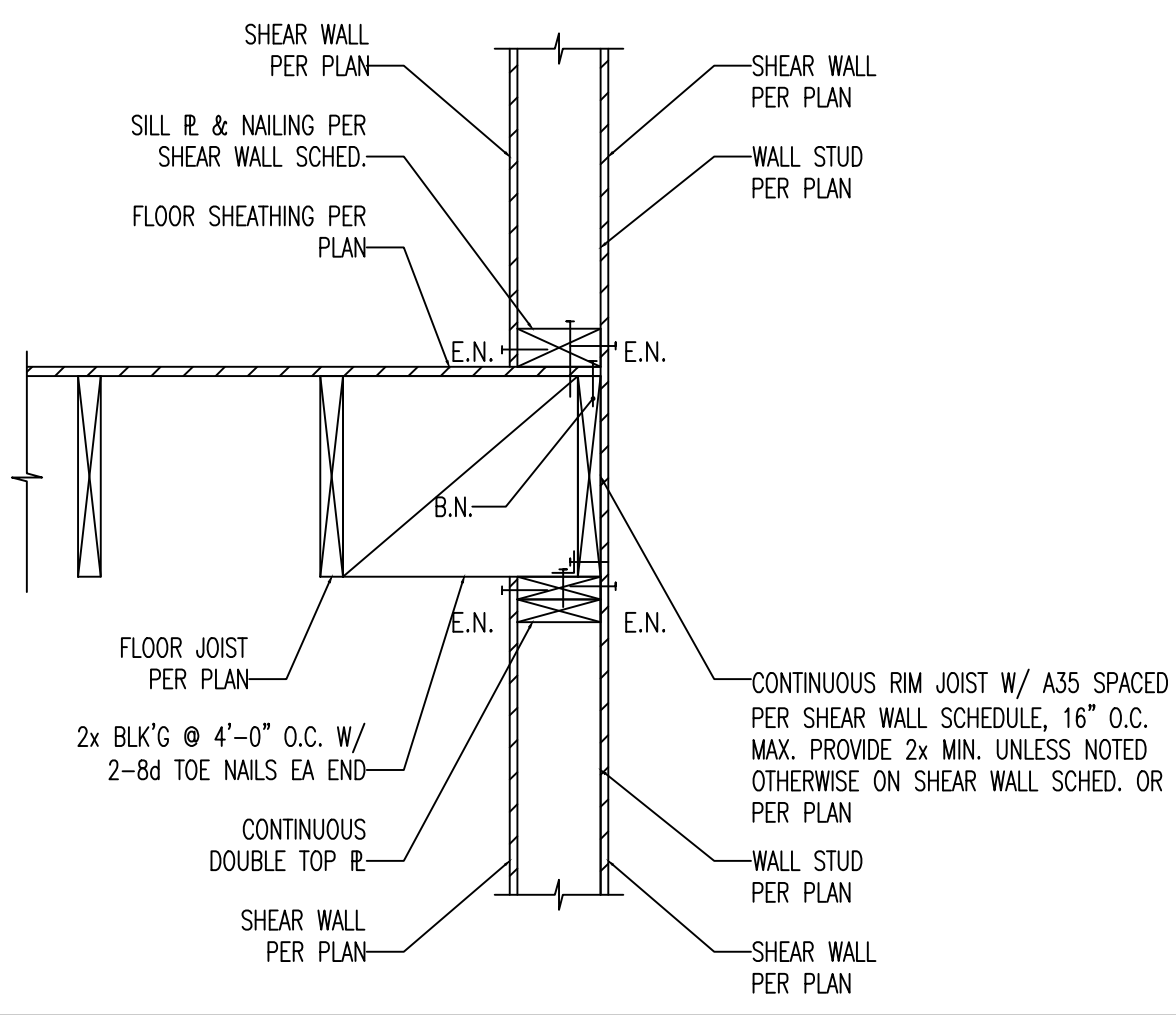
4 DETAIL  
SCALE: N.T.S.



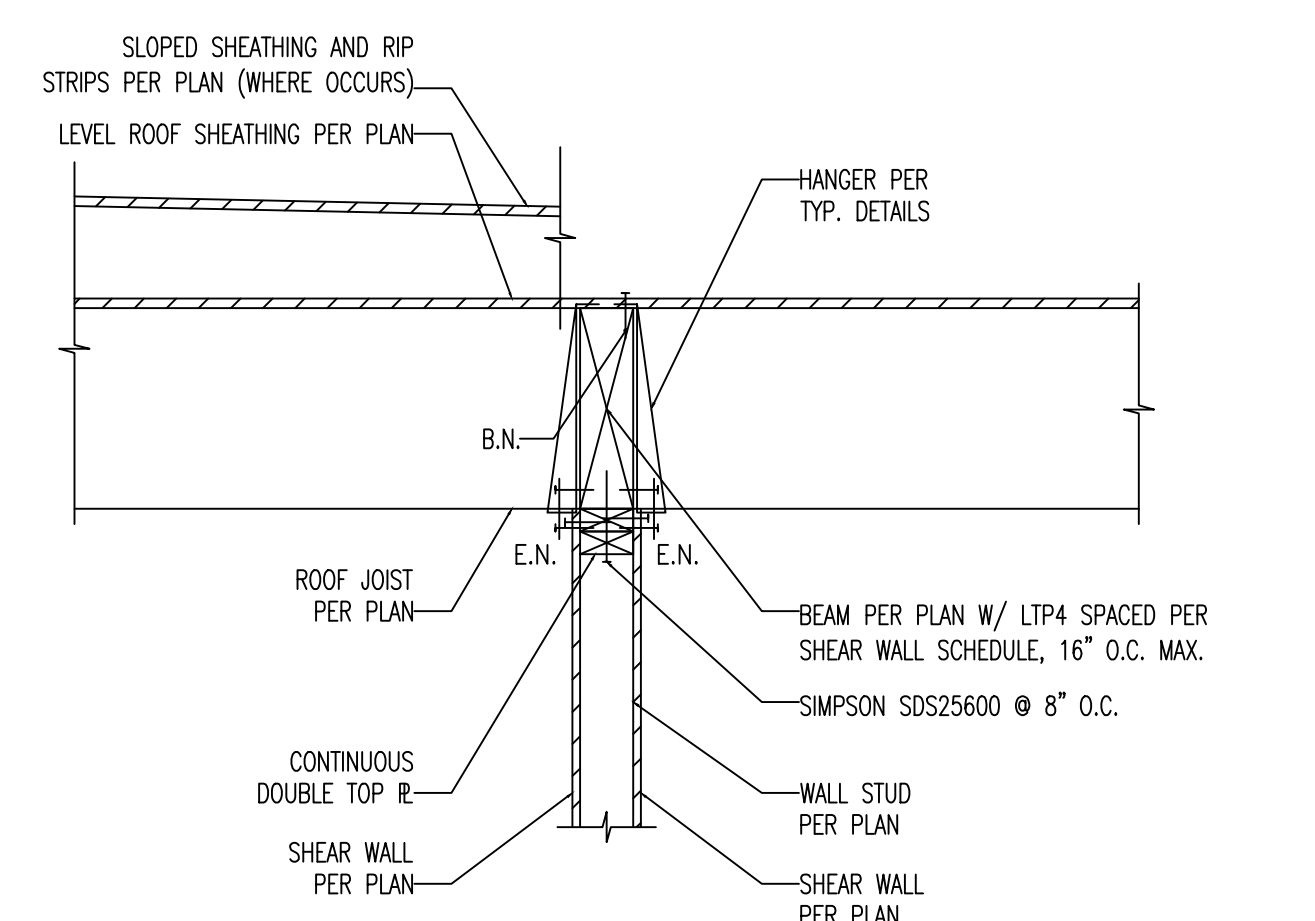
3 DETAIL  
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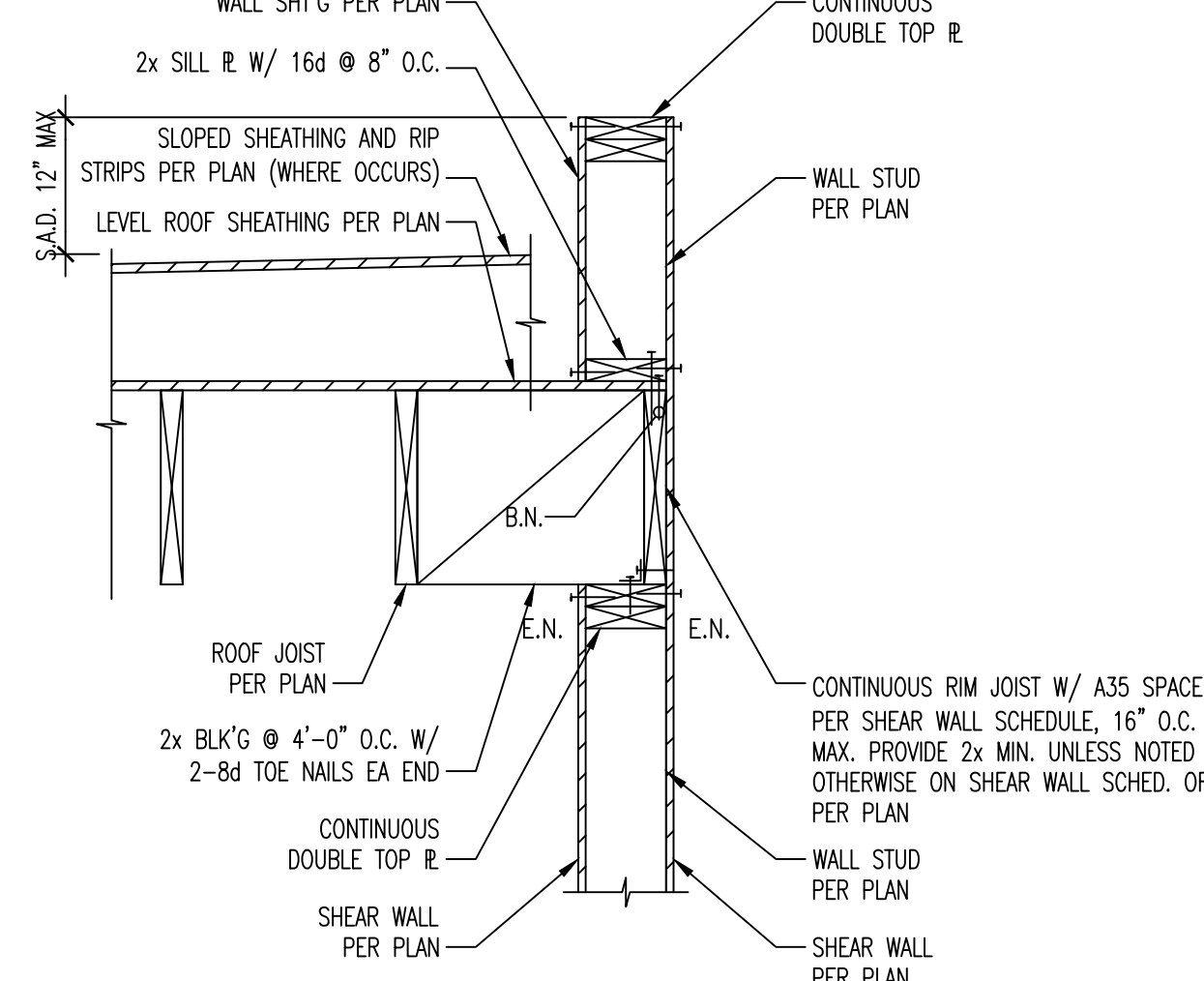
2 DETAIL  
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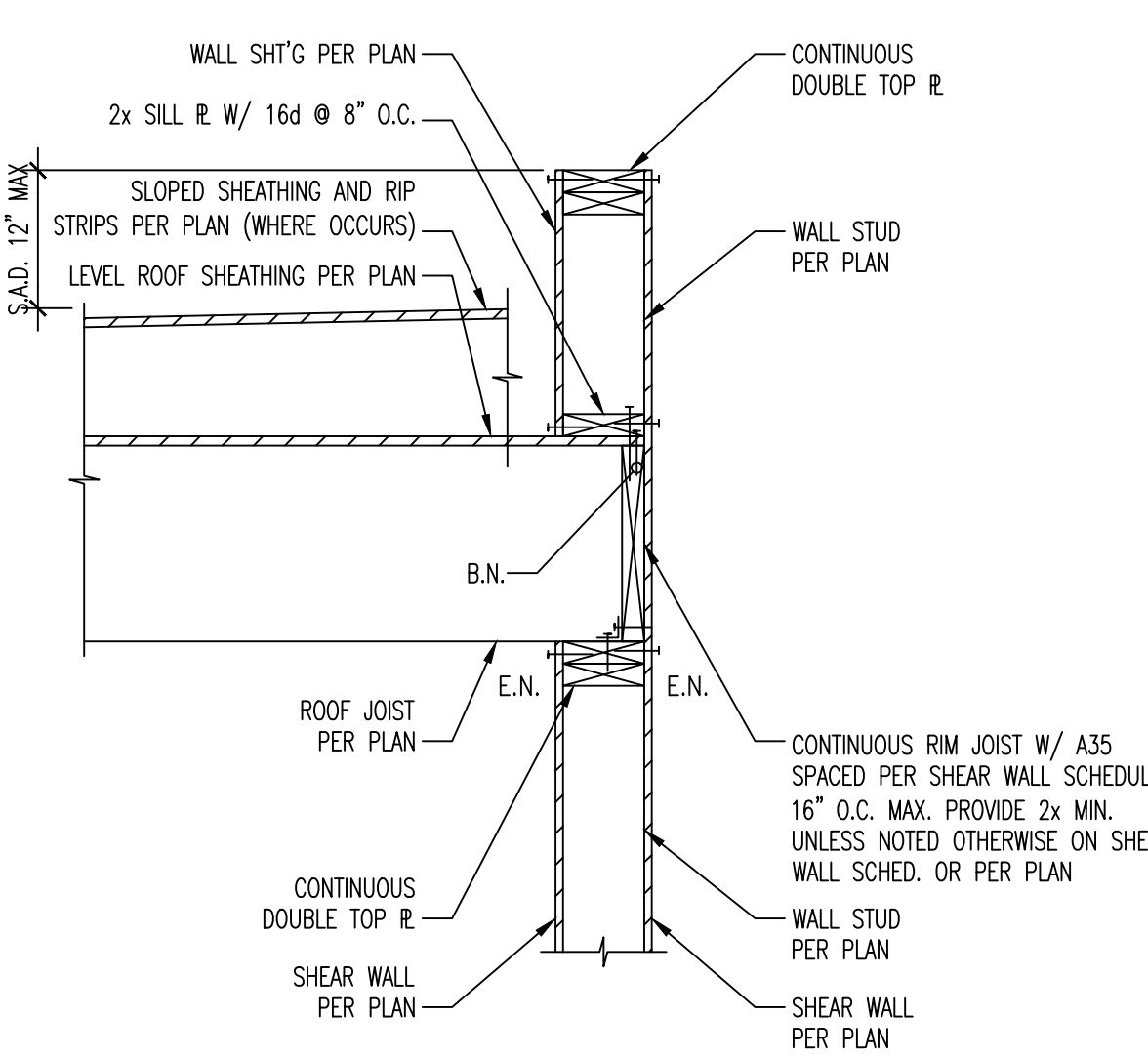
1 DETAIL  
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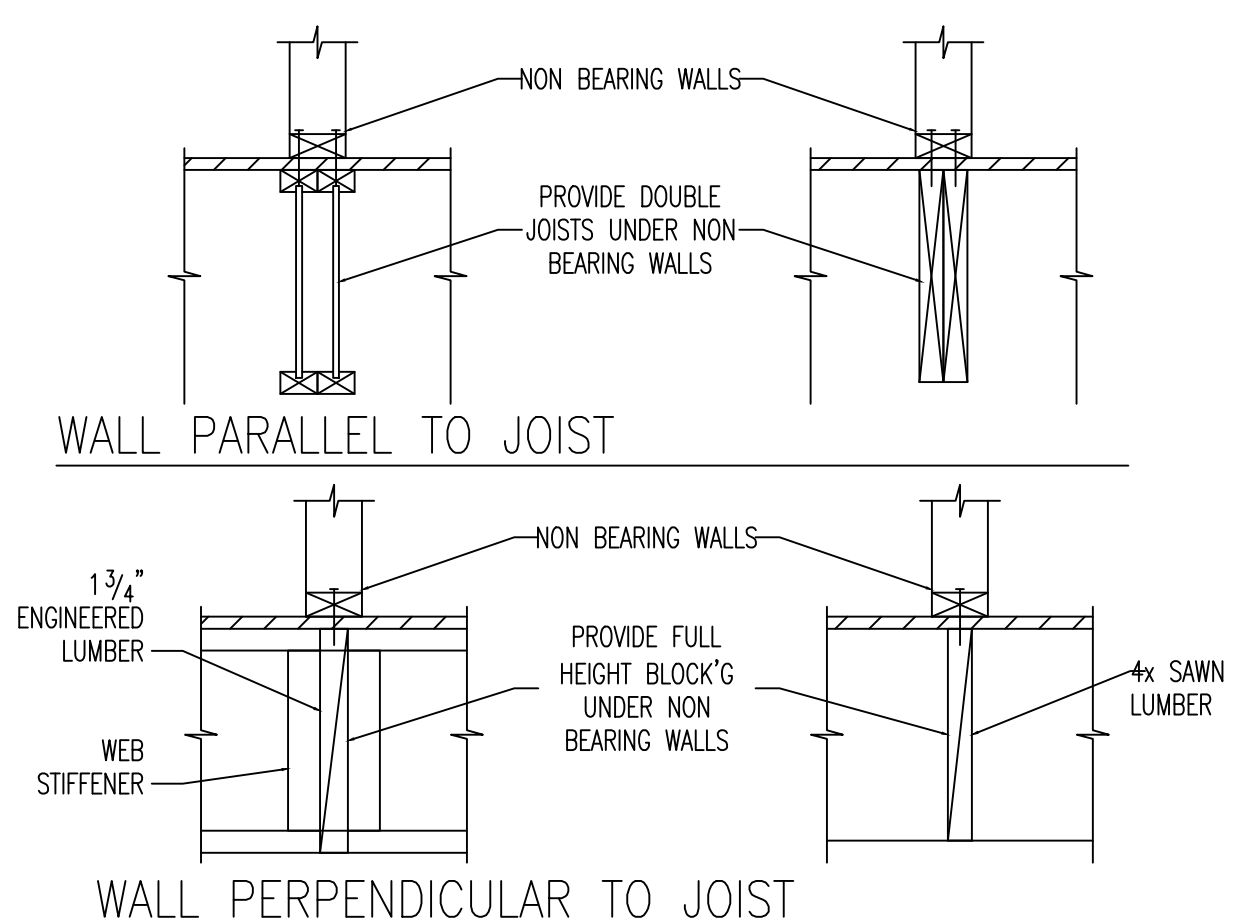
8 DETAIL  
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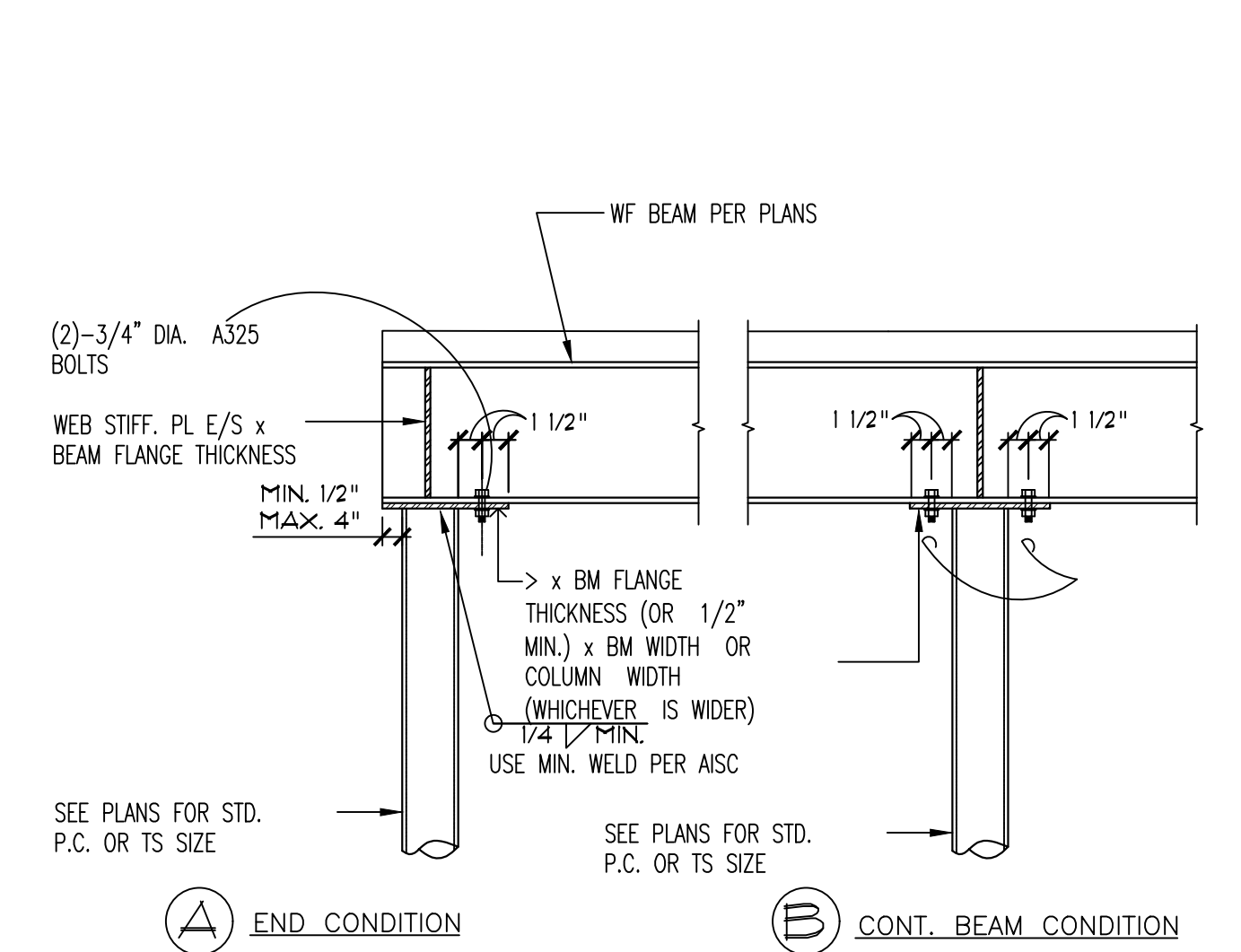
7 DETAIL  
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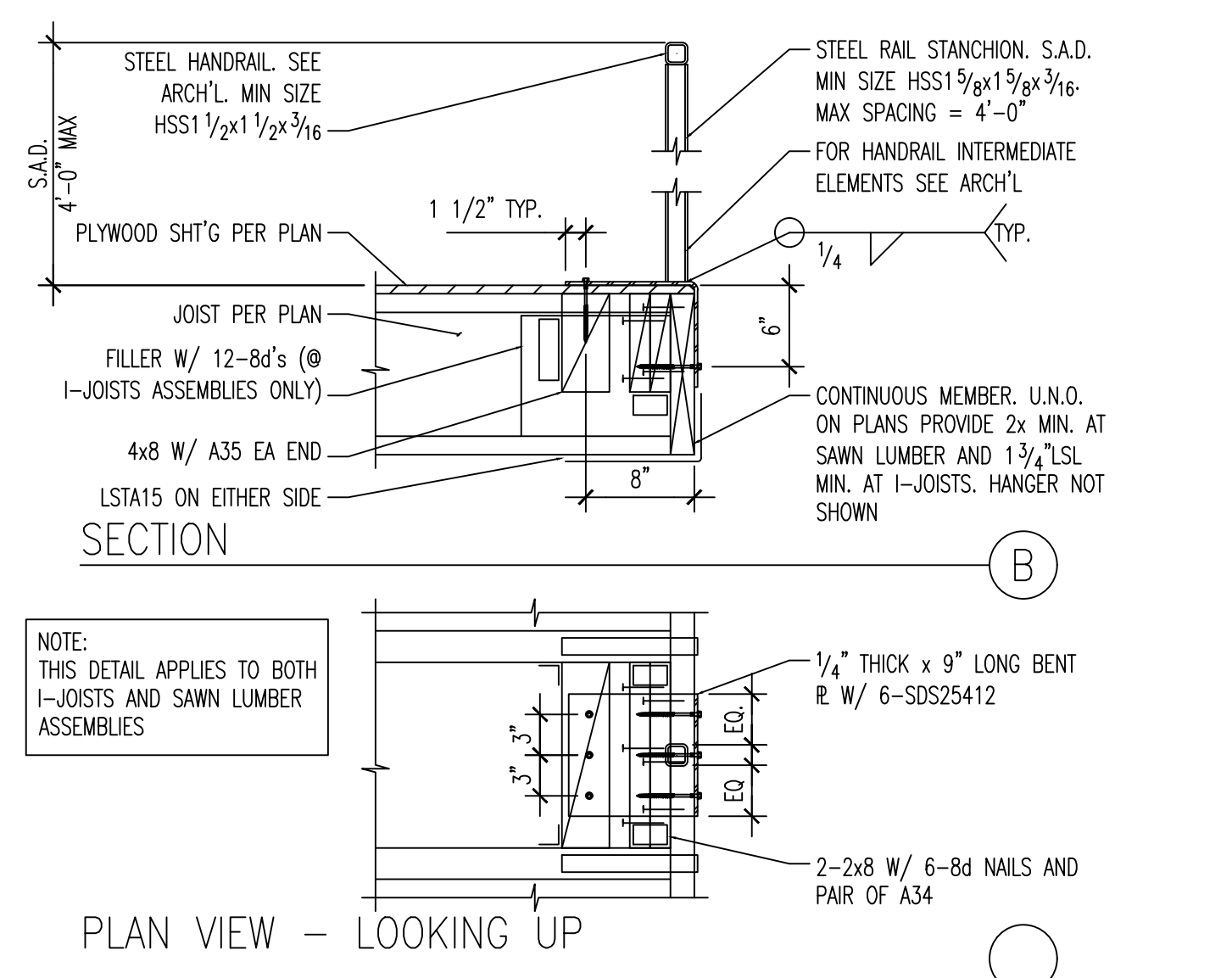
6 DETAIL  
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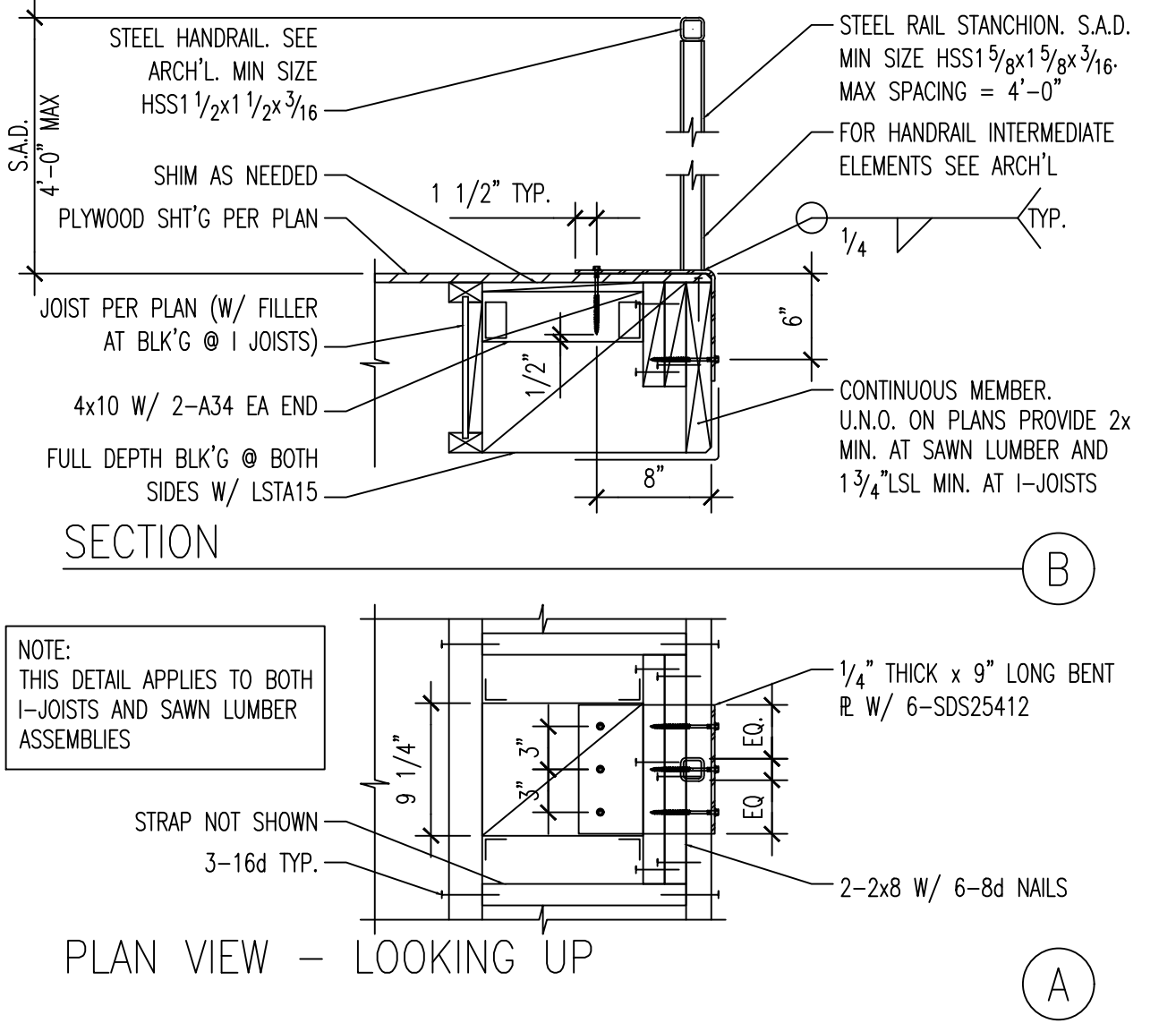
5 FRAMING AT NON BEARING WALLS



11 Wx BEAM TO PIPE COLUMN

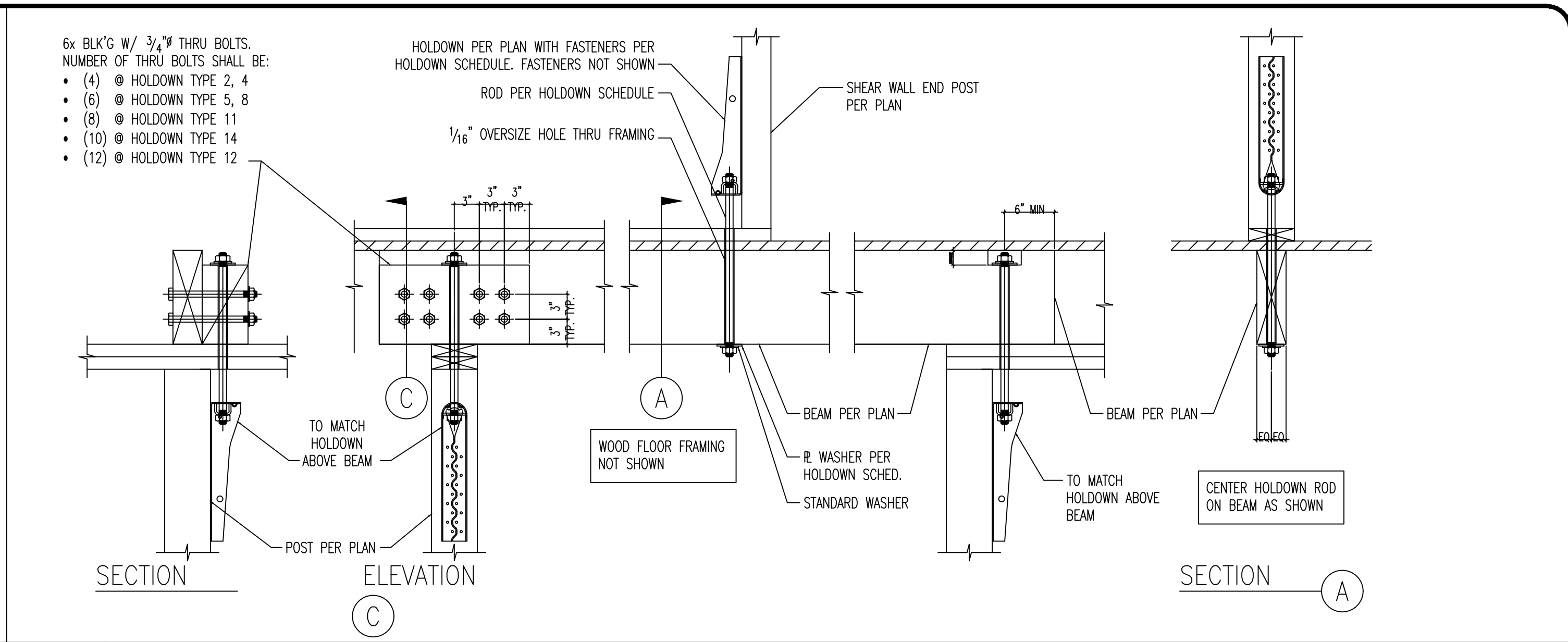
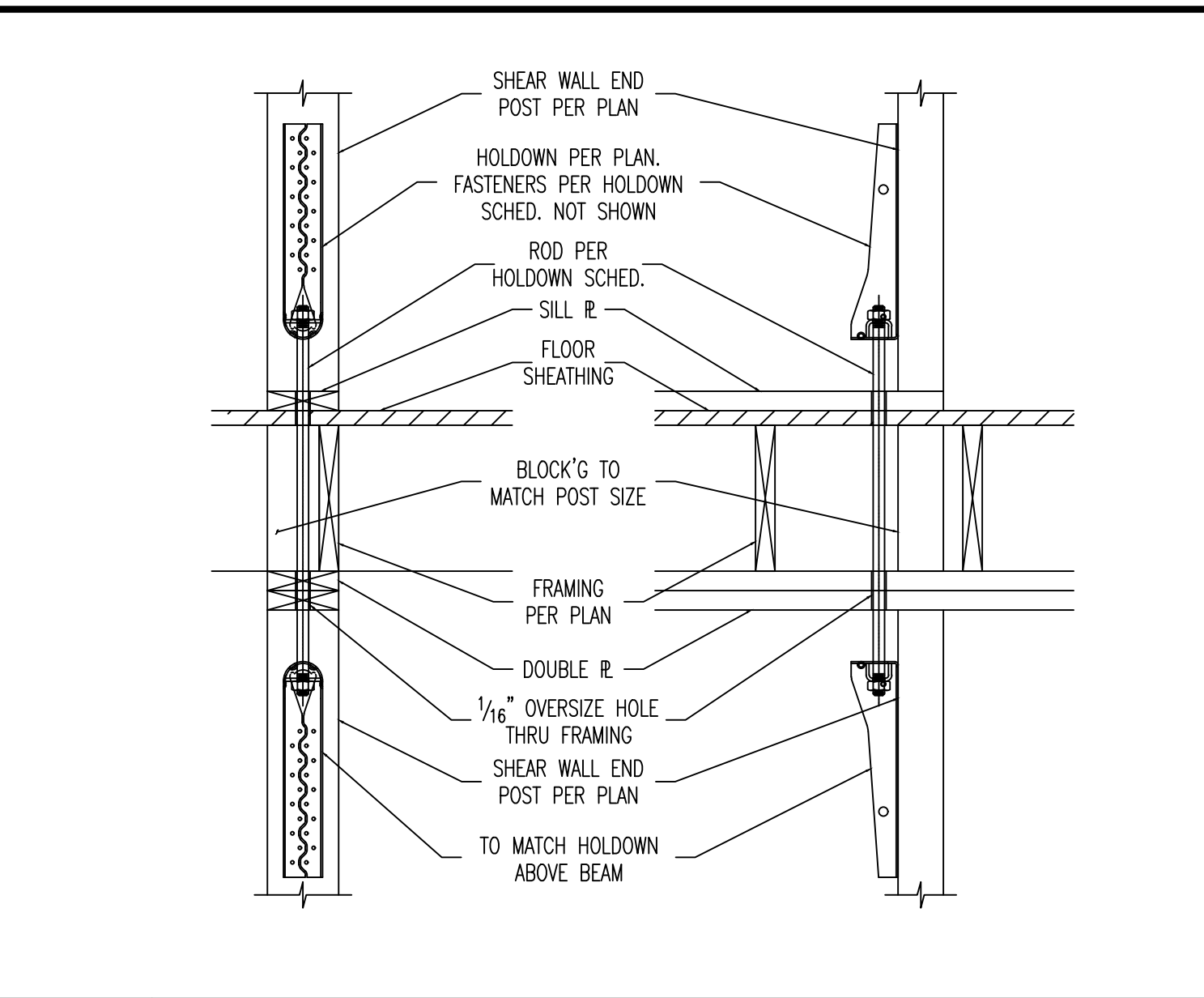
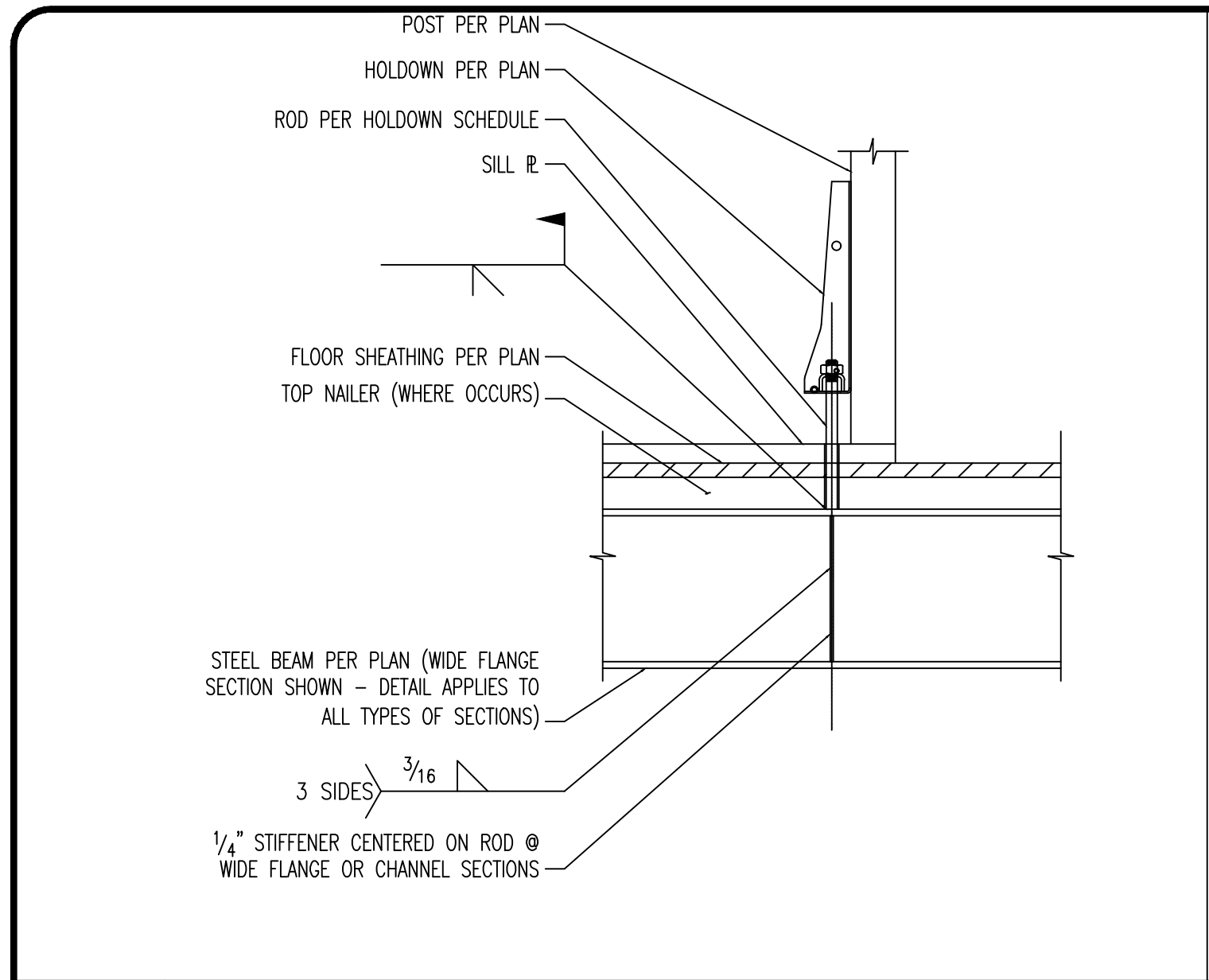


9 TOP MOUNT STEEL RAIL DETAIL



9 TOP MOUNT STEEL RAIL DETAIL

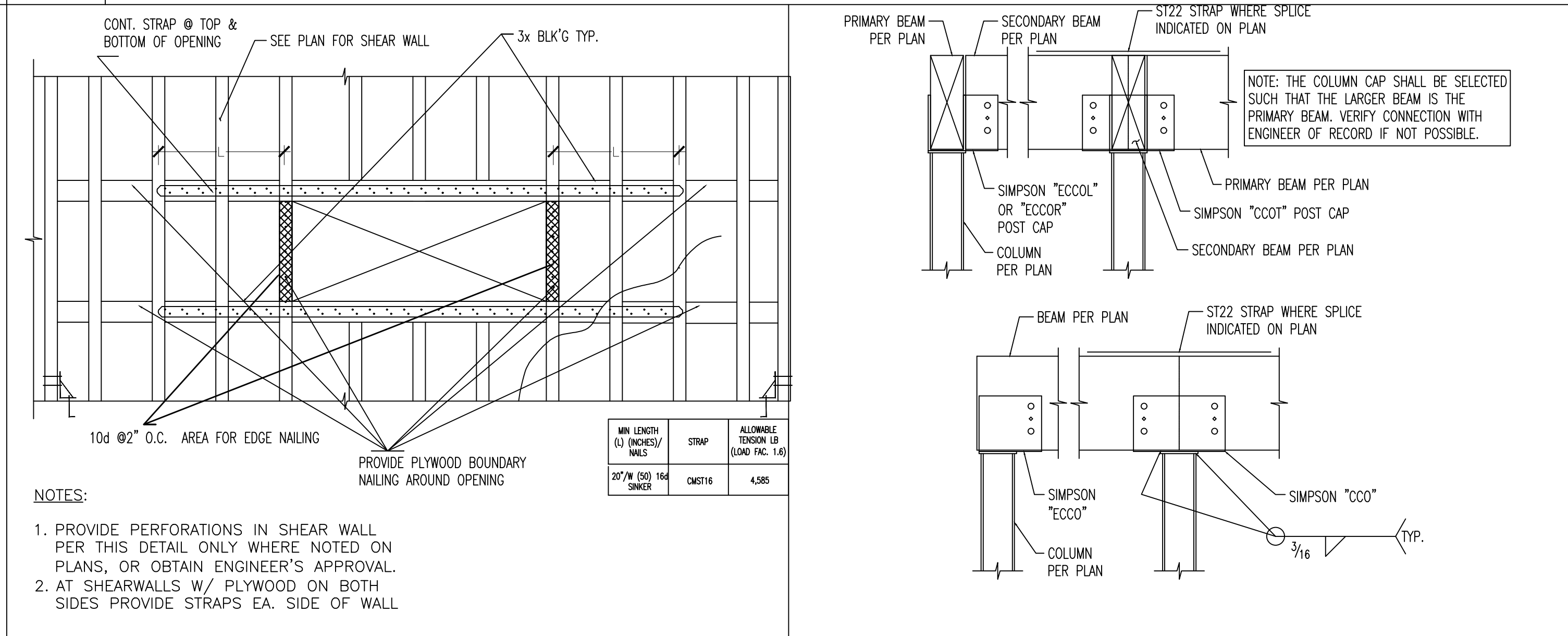
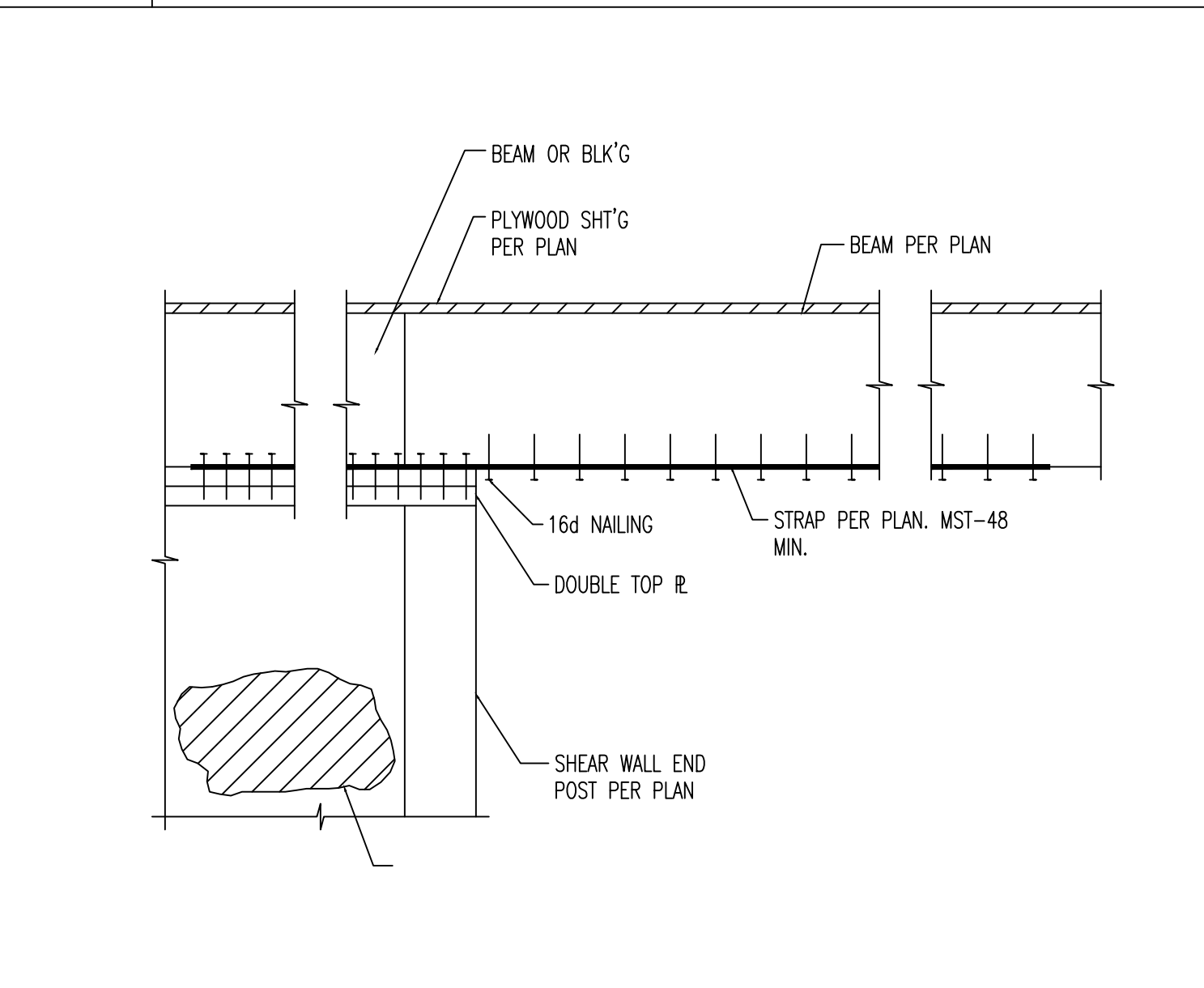
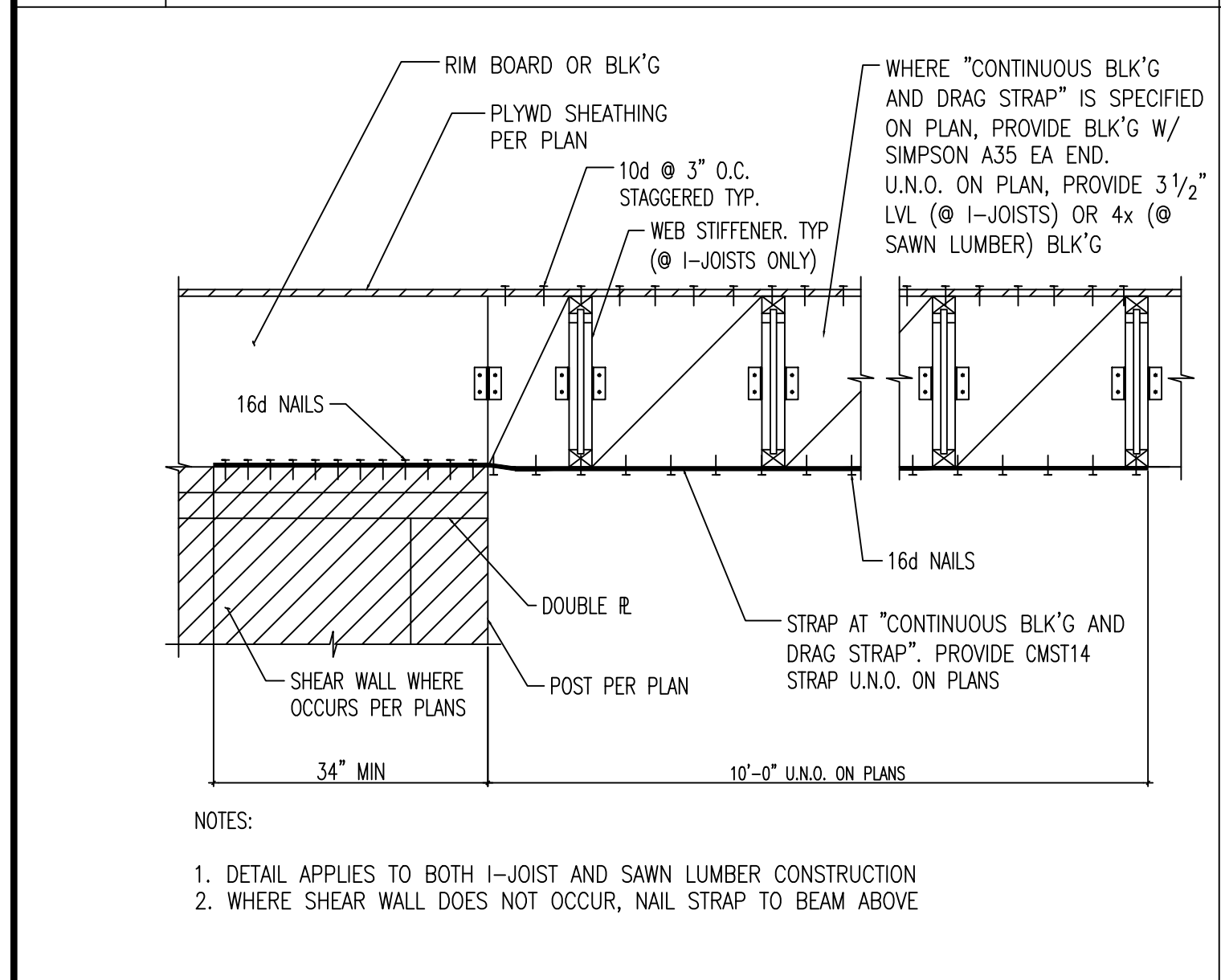




1 HOLDOWN ON STEEL BEAM

2 HOLDOWN AT WOOD FLOOR

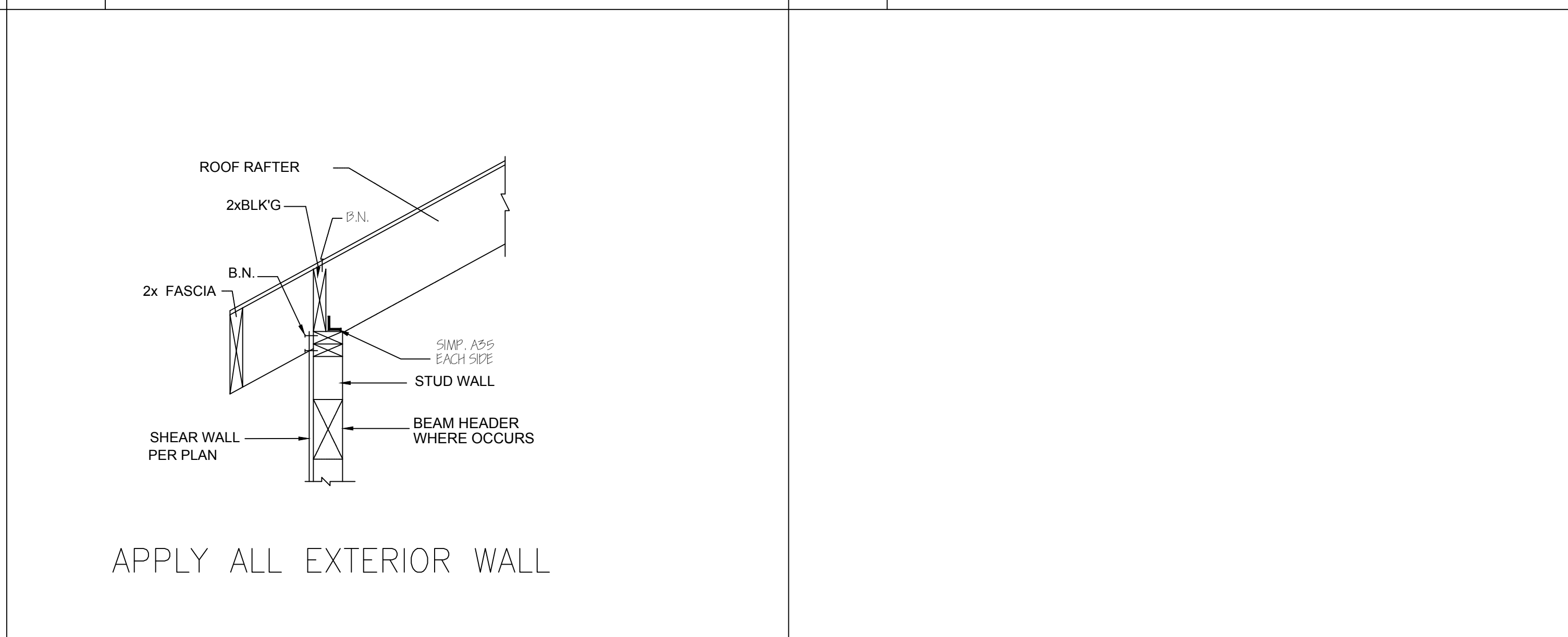
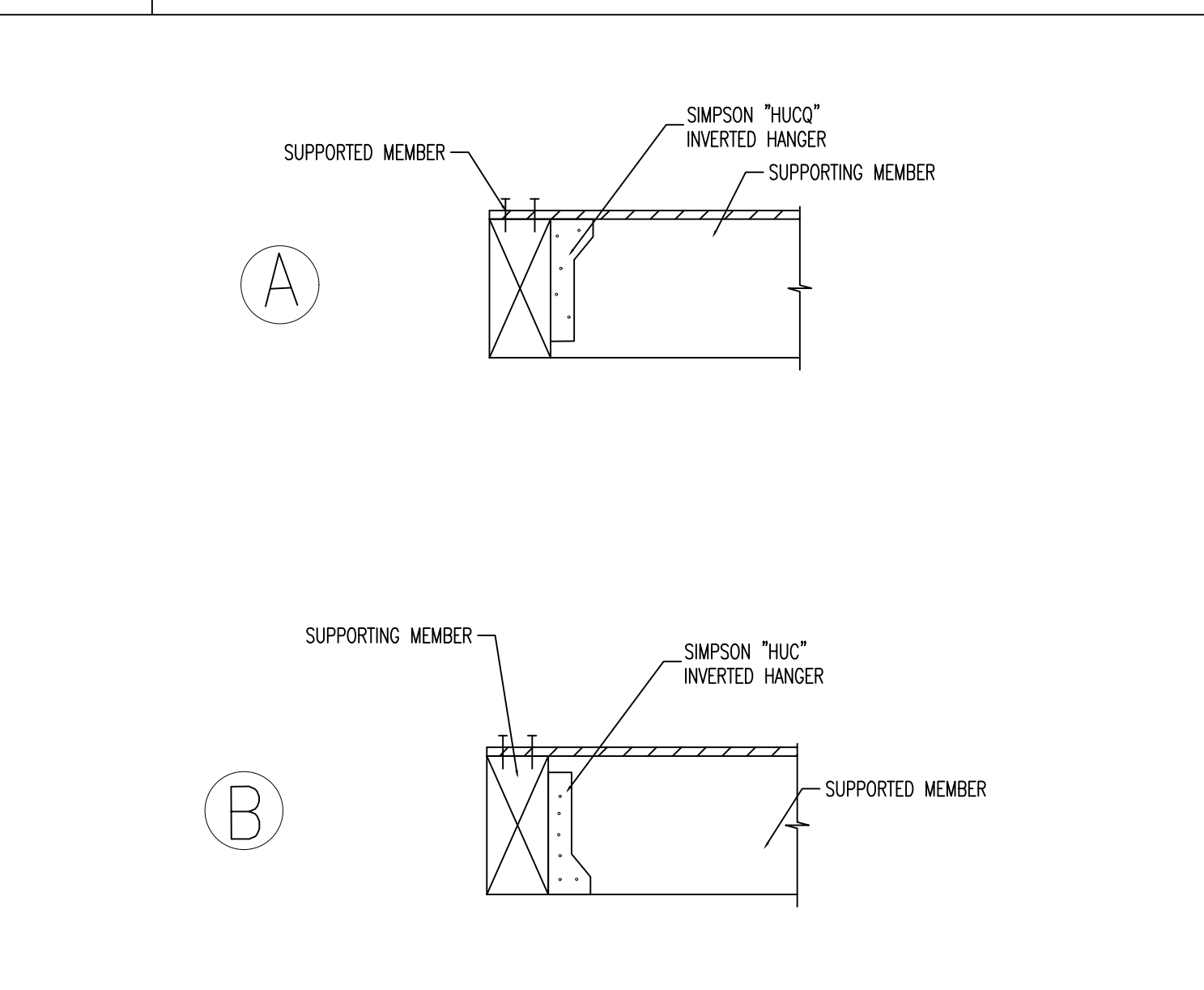
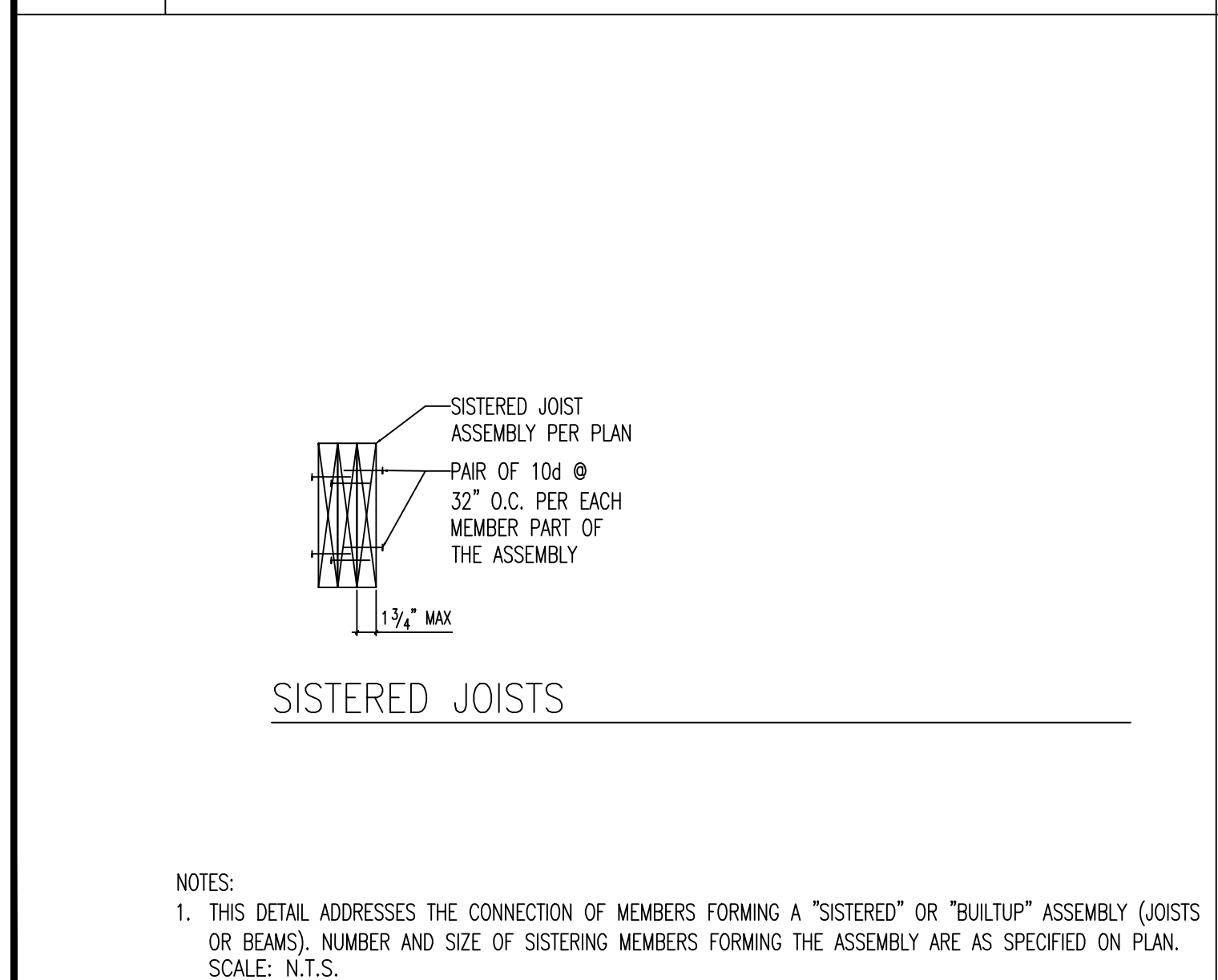
3 HOLDOWN LANDING ON WOOD BEAM



5 CONT. BLK'G AND DRAG STRAP

6 TYP. FLUSH BM. DRAG CONN.

7 OPENING IN SHEAR WALL



9 BUILTUP BEAM/SISTERED JOIST

10 BEAM TO BEAM CONN.

11 TYP. CONN. AT SHEAR WALL

| NO. | DATE | REVISIONS |
|-----|------|-----------|
|     |      |           |

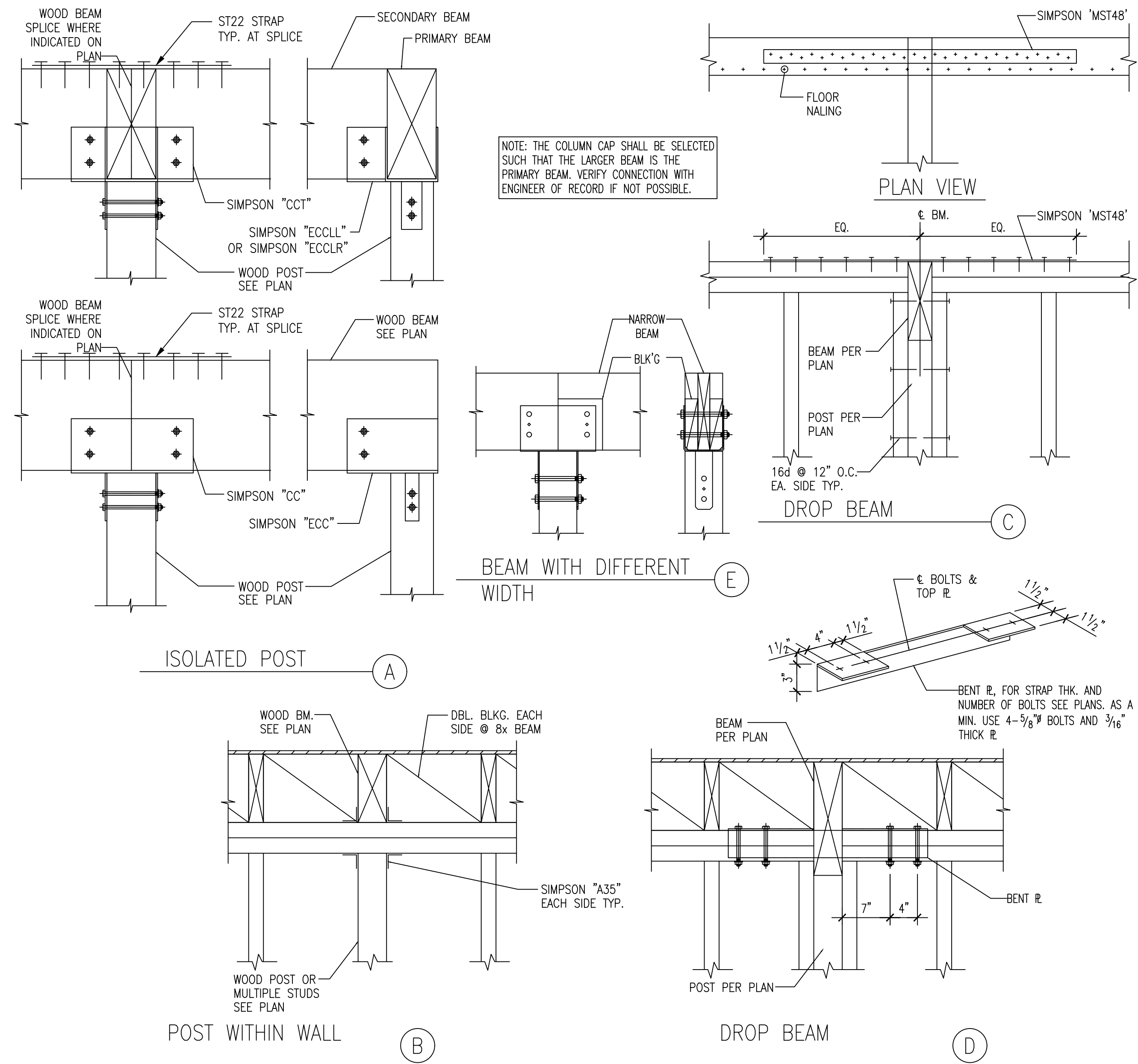
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ENCINO, CALIFORNIA 91316  
TEL: (818) 468-9920  
WEB: ILYAENGINEERING.COM  
SAM@ILYAENGINEERING.COM

DETAILS

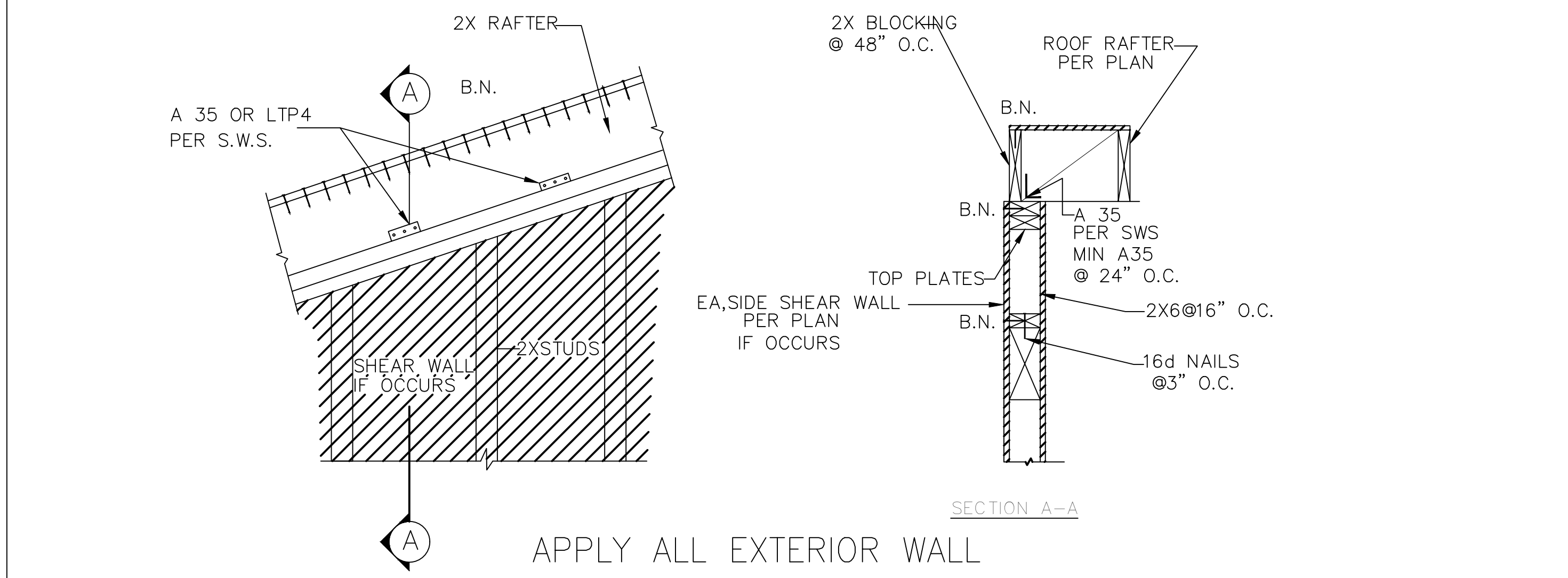
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| SCALE           |        |
| CHECKED         |        |
| SHEET           | SD-8   |
| 11 OF 15 SHEETS |        |
| JOB No 2211-547 |        |



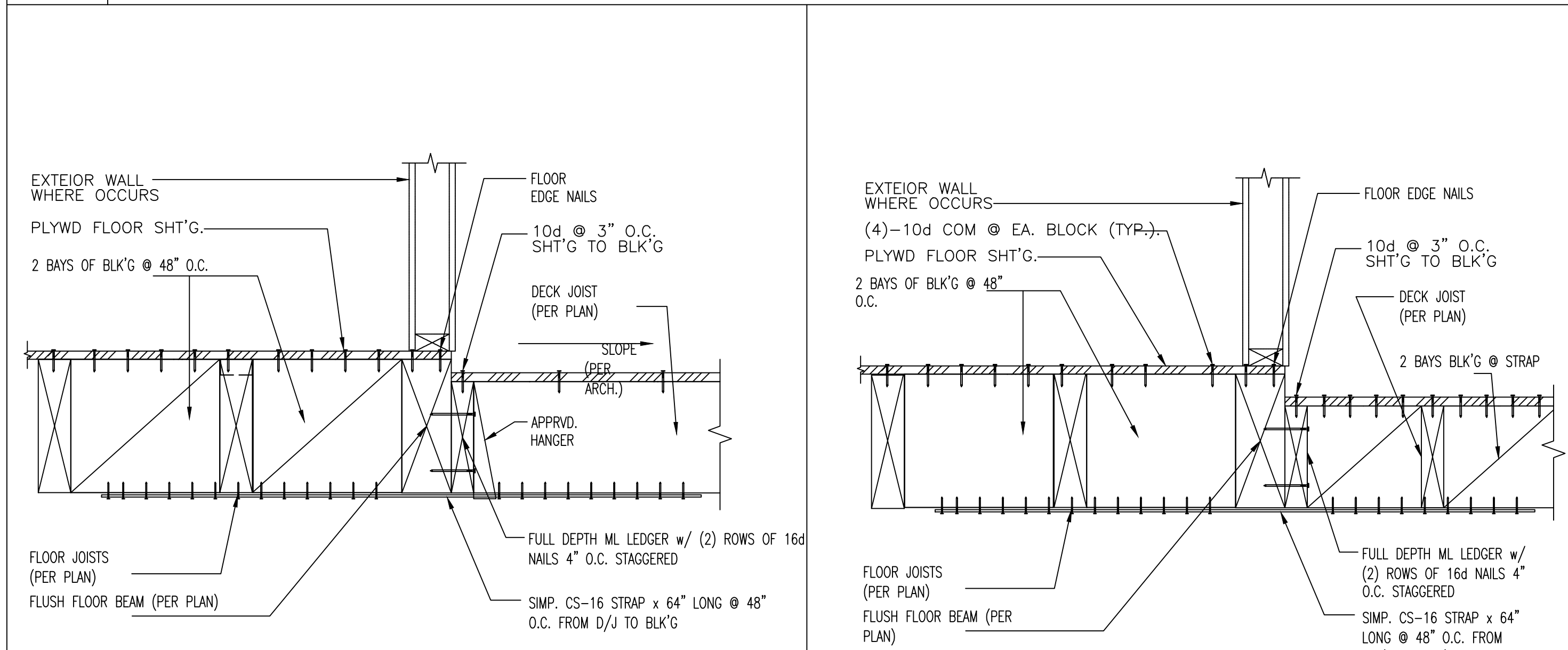


5 TYP. BEAM TO POST CONN. DETAIL

9 10



3 SHEAR WALL TO ROOF DET.



7 SHEAR TRANSFER @ DECK 8 SHEAR TRANSFER @ DECK

11 12

| NO. | DATE | REVISIONS |
|-----|------|-----------|
|     |      |           |

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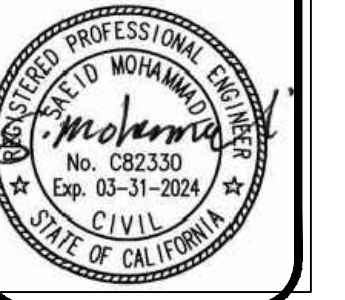
DETAILS

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| 12 OF 15 SHEETS |        |
| JOB No 2211-547 |        |



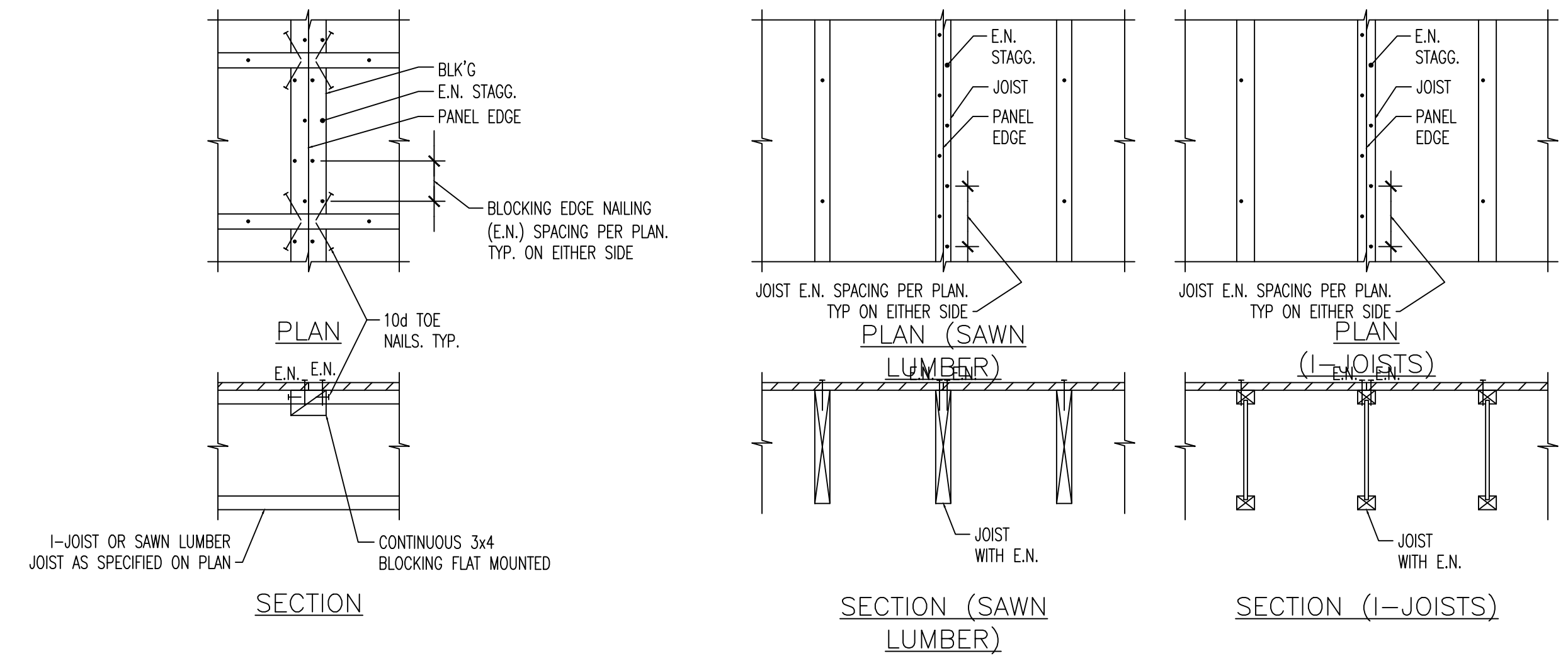
| NO. | DATE | REVISIONS |
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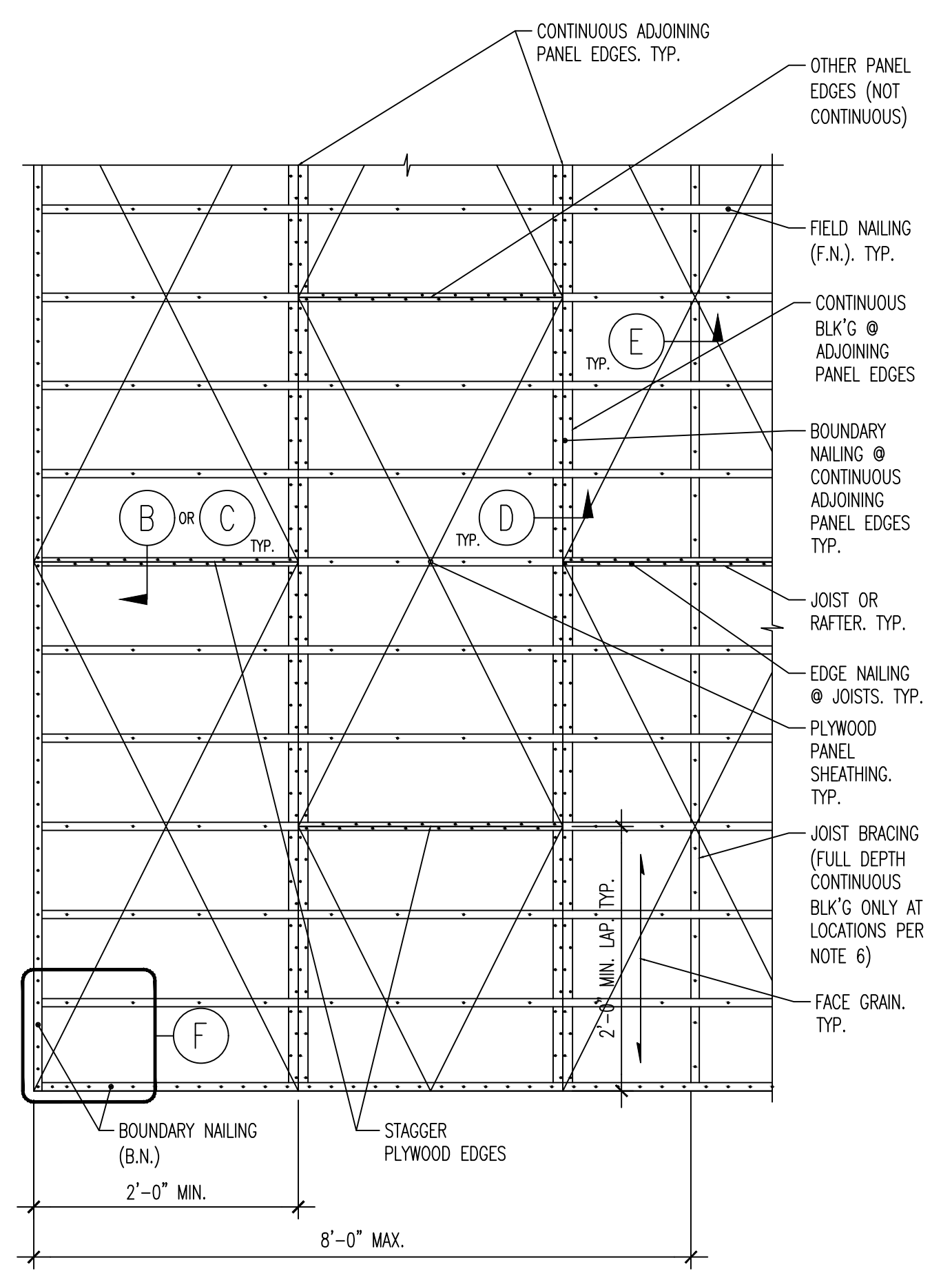
DETAILS

|                 |        |
|-----------------|--------|
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| 13 OF 15 SHEETS |        |
| JOB No 2211-547 |        |



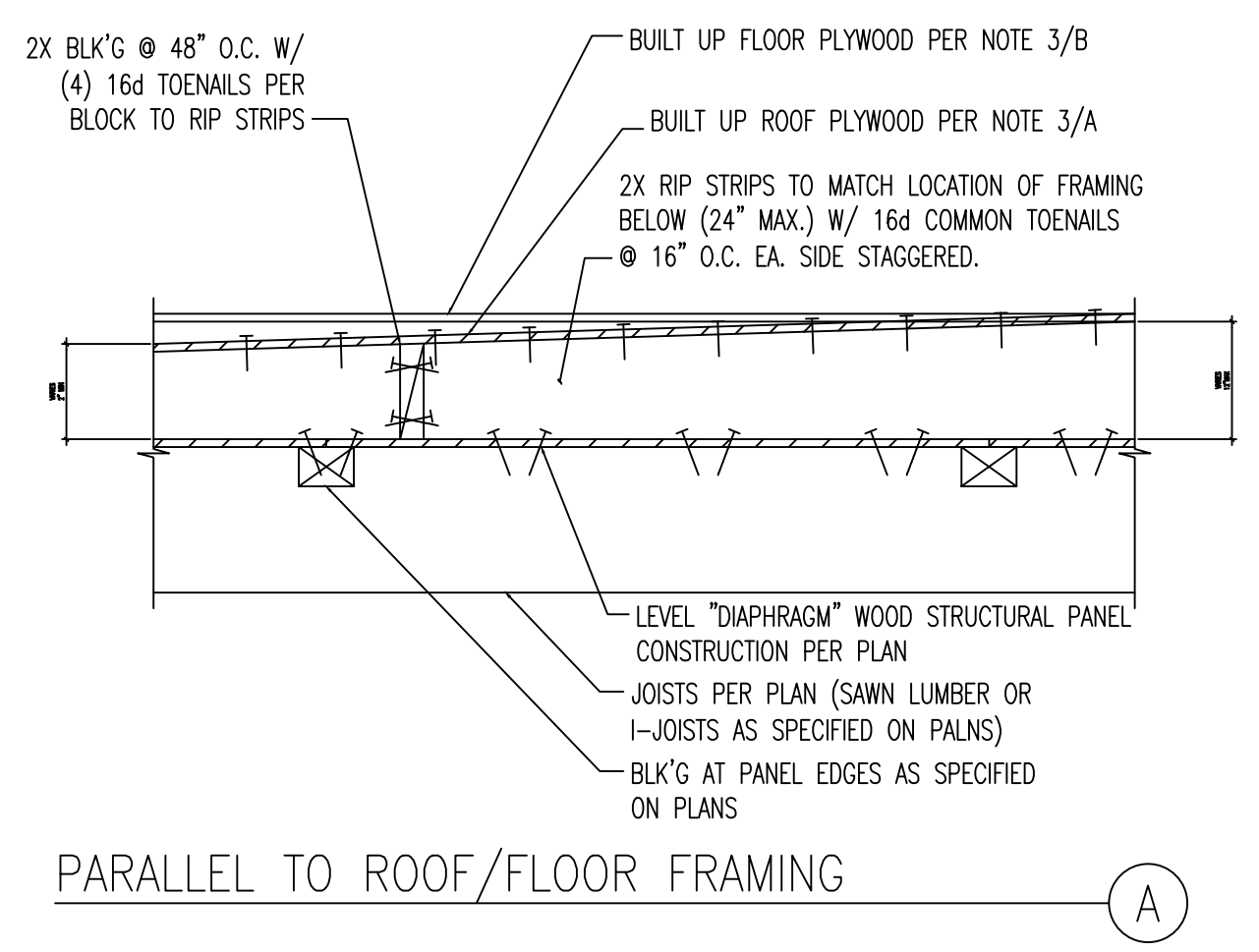
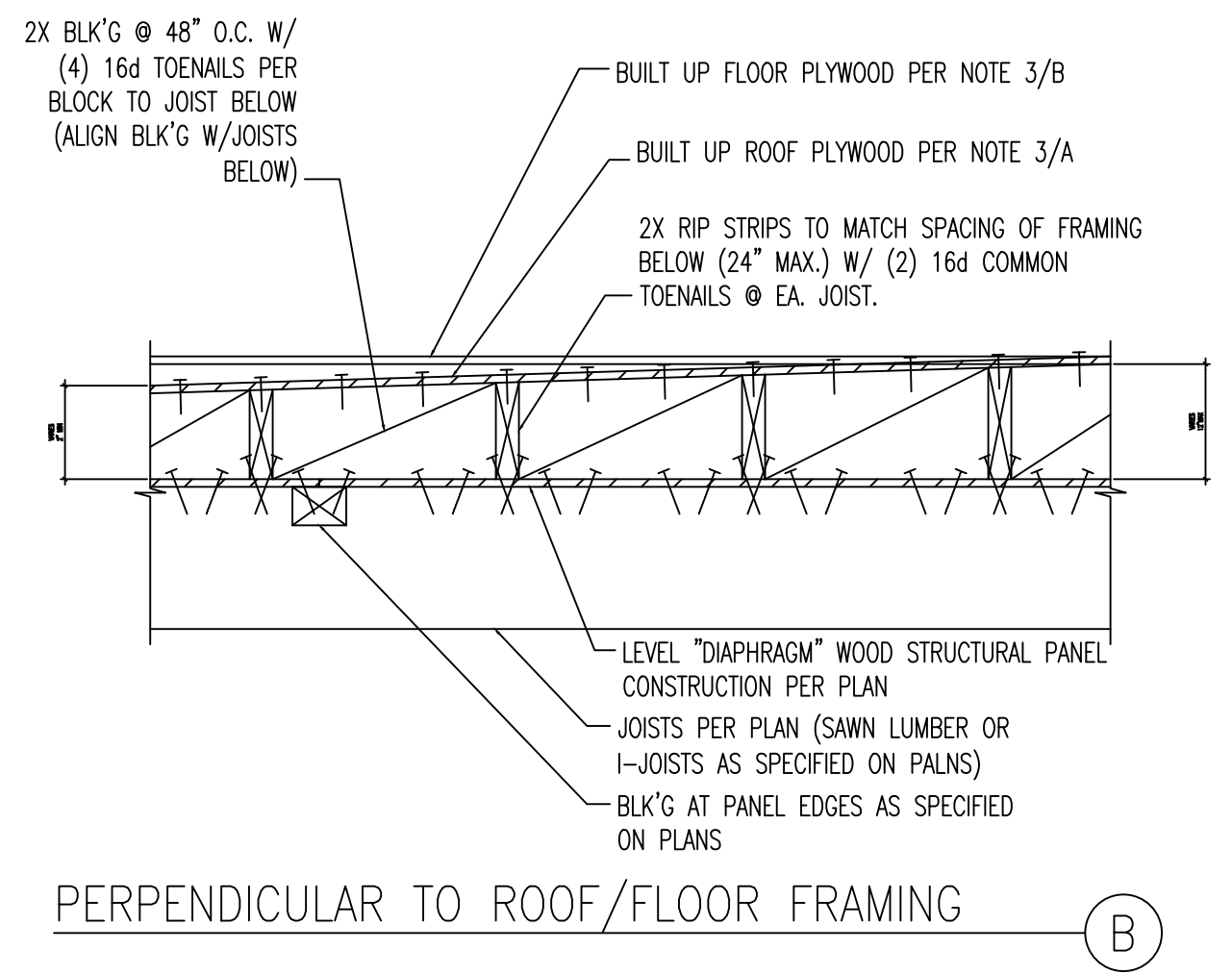
ADJOINING PANEL EDGES – NAILING TO CONT. BLK'G SAWN LUMBER AND I-JOISTS (D)

ADJOINING PANEL EDGES – NAILING TO JOISTS NAIL SPACING GREATER THAN 3" (B)



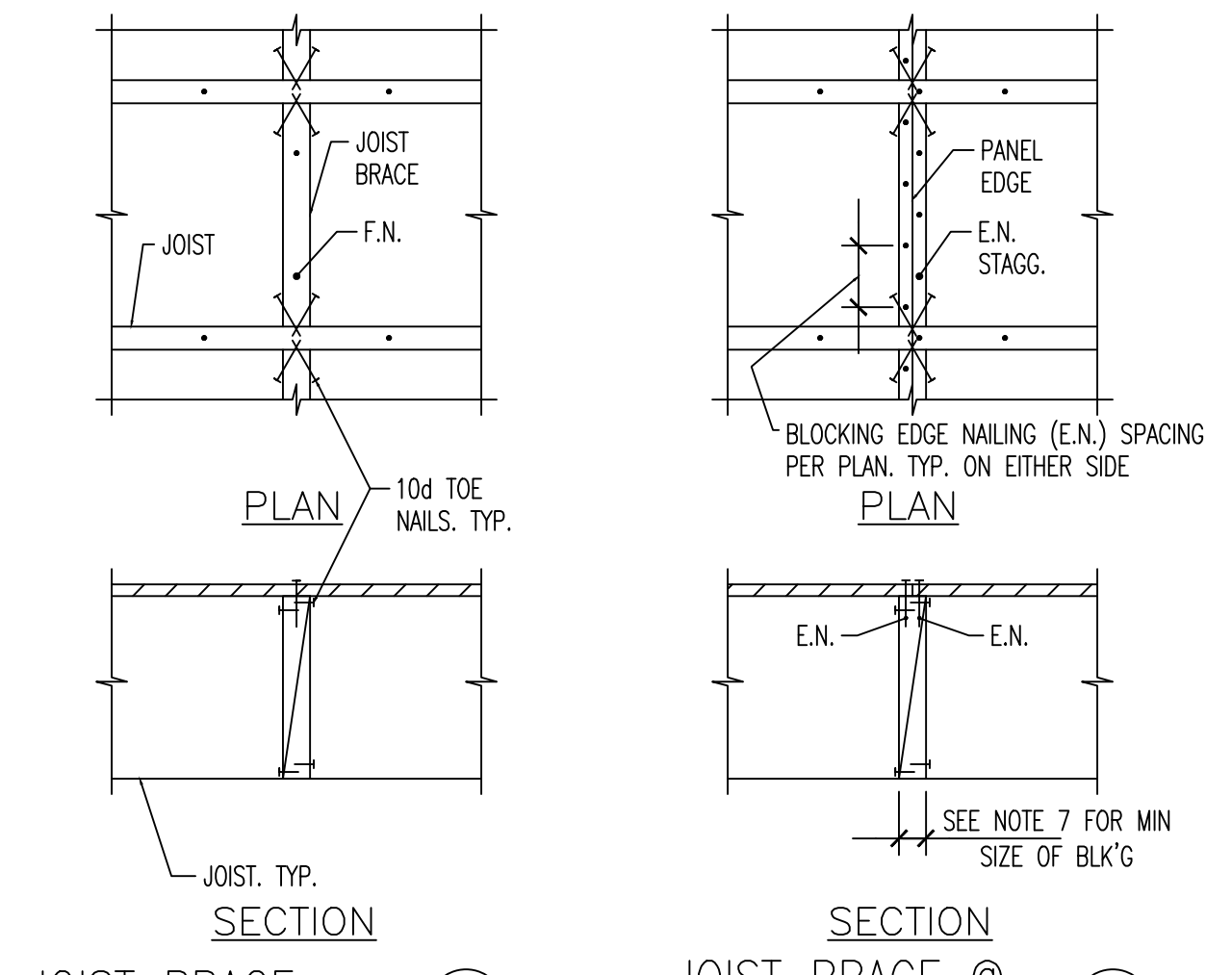
- NOTES:
- FOR SHEATHING THICKNESS AND GRADE SEE PLANS
  - FOR NAIL SIZE AND SPACING OF BOUNDARY NAILING (B.N.), EDGE NAILING (E.N.) AT JOISTS, EDGE NAILING AT BLOCK'G, AND FIELD NAILING (F.N.), SEE PLANS
  - PROVIDE MIN. 3/8" NAIL EDGE DISTANCE FROM PLYWOOD AND FRAMING MEMBERS. SEE INSET DETAIL "G"
  - FOR JOIST OR RAFTER SIZE AND SPACING SEE PLANS. PROVIDE SAWN LUMBER OR I-JOISTS MEMBERS AS SPECIFIED ON PLANS
  - BLOCK ALL PANEL EDGES AS SHOWN UNLESS OTHERWISE SPECIFIED EXPRESSLY ON THE PLANS. TONGUE AND GROOVE CANNOT BE USED AS SUBSTITUTION OF PANEL EDGES BLOCKING
  - FULL DEPTH CONTINUOUS JOIST BRACING: AT SAWN LUMBER JOISTS WITH NOMINAL DEPTH-TO-THICKNESS RATIO EXCEEDING 6:1 PROVIDE FULL DEPTH CONTINUOUS JOIST BRACING MEMBERS @ 8'-0" MAX SPACING AS INDICATED ON THE PLAN ABOVE. AT ENGINEERED LUMBER JOISTS PROVIDE CONTINUOUS JOIST BRACING MEMBERS ONLY IF SPECIFIED PER MANUFACTURER'S RECOMMENDATIONS
  - (SAWN LUMBER ONLY) JOIST BRACING MEMBERS SHALL CONSIST OF FULL DEPTH BLOCKING AS SHOWN PER INSET DETAIL "E", AS A MINIMUM PROVIDE 2x MEMBERS. IT SHALL BE PERMITTED TO USE JOIST BRACING BLOCKING AS PANEL EDGE BLOCKING PER INSET DETAIL "E2", PROVIDED THAT THE NAILED FACE OF FULL DEPTH BLOCKING MEETS THE LIMITATIONS SET FORTH ON NOTE 8.
  - THE MIN WIDTH OF NAILED FACE OF FRAMING AND BLOCKING AT ADJOINING PANEL EDGES SHALL BE AS FOLLOWS:
    - 1 1/2" ACTUAL (2x NOMINAL) IF E.N. OR B.N. SPACING IS GREATER THAN 3". SEE INSET DETAILS "B", "D", AND "E2".
    - 2 1/2" ACTUAL (3x NOMINAL) IF E.N. OR B.N. SPACING IS 3" OR LESS. SEE INSET DETAILS "C", "D", AND "E2".
  - ALL PLYWOOD END JOINTS SHALL BE STAGGERED 2'-0" MIN AS INDICATED
  - LONG DIMENSION OF PLYWOOD SHEATHING SHALL BE LAID PERPENDICULAR TO JOIST AS INDICATED
  - NOT USED
  - DIAPHRAGM NAILING TO BE OBSERVED BY STRUCTURAL ENGINEER BEFORE COVERING
  - PLYWOOD SPANS SHALL CONFORM WITH TABLE 2304.7 OF THE CBC

TYP. LAYOUT AND NOTES (A)

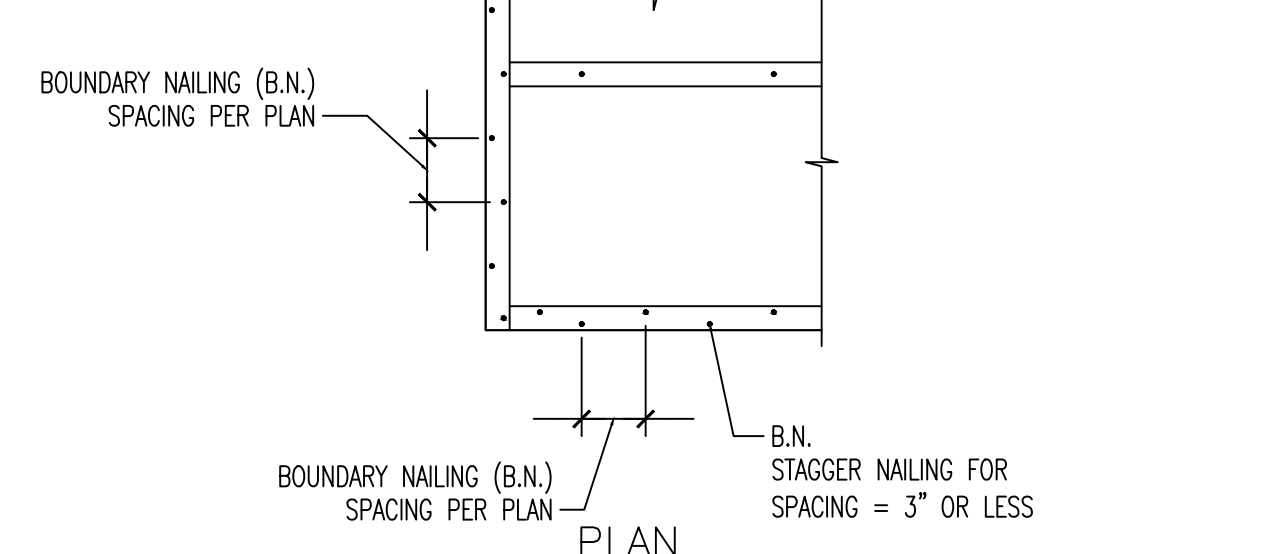


- NOTES:
- THIS DETAIL ADDRESSES THE CONSTRUCTION OF "SLOPED" SHEATHING OVER RIP STRIPS OVER LEVEL SHEATHING. THE DETAIL APPLIES TO ROOF OR FLOOR AS APPLICABLE.
  - FOR SLOPE TO DRAIN S.A.D.
  - UNLESS OTHERWISE SPECIFIED ON PLANS, BUILT UP SHEATHING SHALL BE AS FOLLOWS:
    - ROOF: WOOD STRUCTURAL PANEL, 5/8" CD APA RATED PLYWOOD SHEATHING, EXPOSURE 1, SPAN RATING 32/16, NAILED WITH 8d COMMONS SPACED @ 6" O.C. ALONG ALL BOUNDARIES (B.N.) AND PANEL EDGES (E.N.), 12" O.C. ALONG INTERMEDIATE SUPPORTS (FIELD) (F.N.)
    - FLOOR/OCCUPIED DECK: WOOD STRUCTURAL PANEL, 3/4" CD APA RATED PLYWOOD SHEATHING, EXPOSURE 1, SPAN RATING 48/24, NAILED WITH 8d COMMONS SPACED @ 6" O.C. ALONG ALL BOUNDARIES (B.N.) AND PANEL EDGES (E.N.), 12" O.C. ALONG INTERMEDIATE SUPPORTS (FIELD) (F.N.)

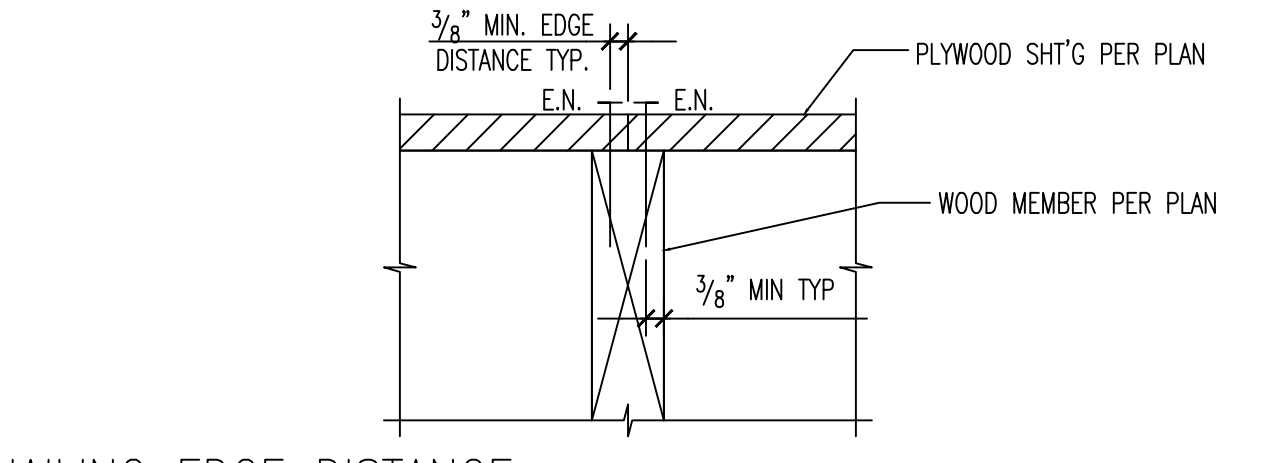
TYPICAL BUILT UP FLOOR/ROOF SCALE: N.T.S.



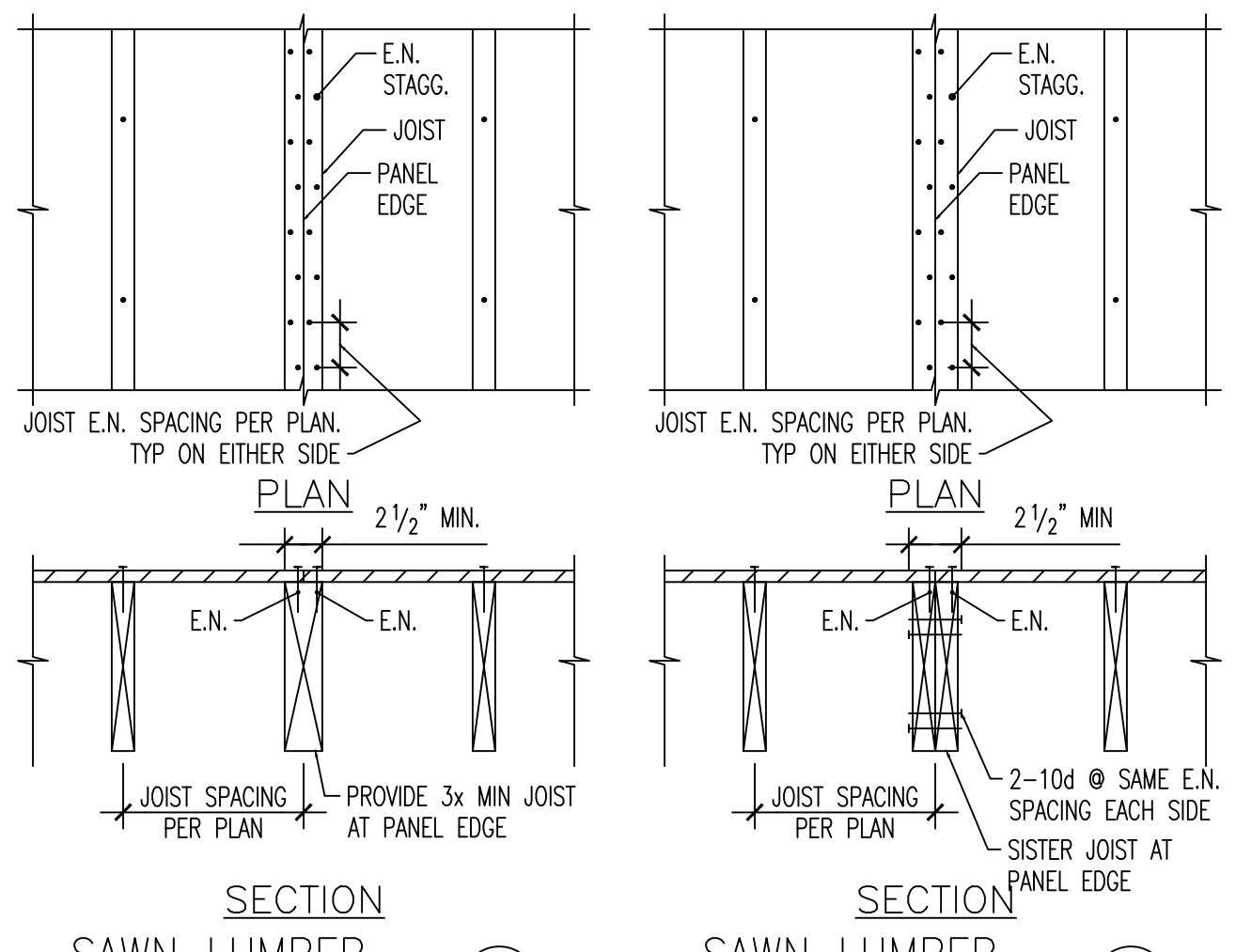
JOIST BRACING – FULL DEPTH BLK'G SAWN LUMBER ONLY (E)



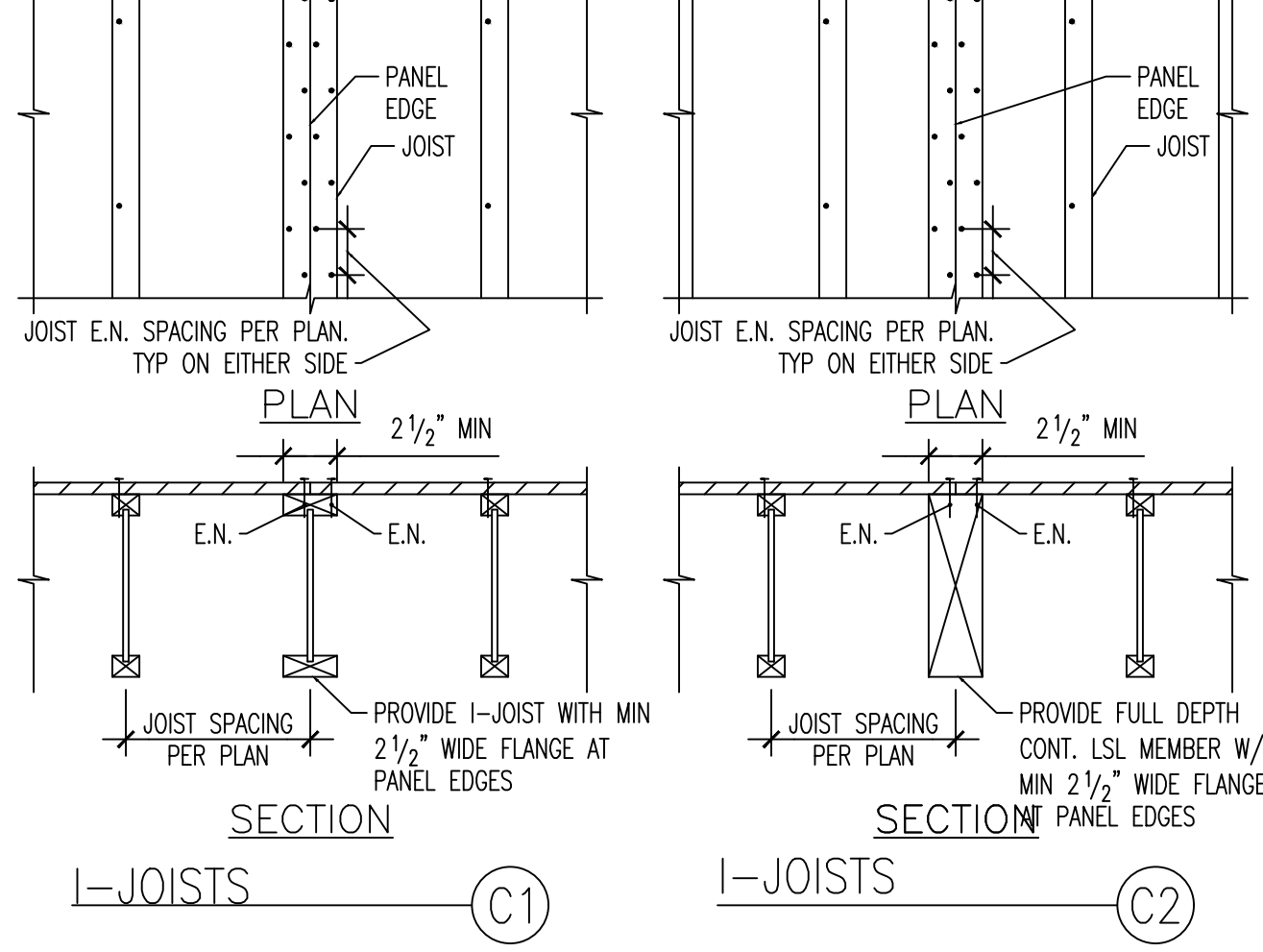
BOUNDARY NAILING SAWN LUMBER AND I-JOISTS (F)



NAILING EDGE DISTANCE (G)



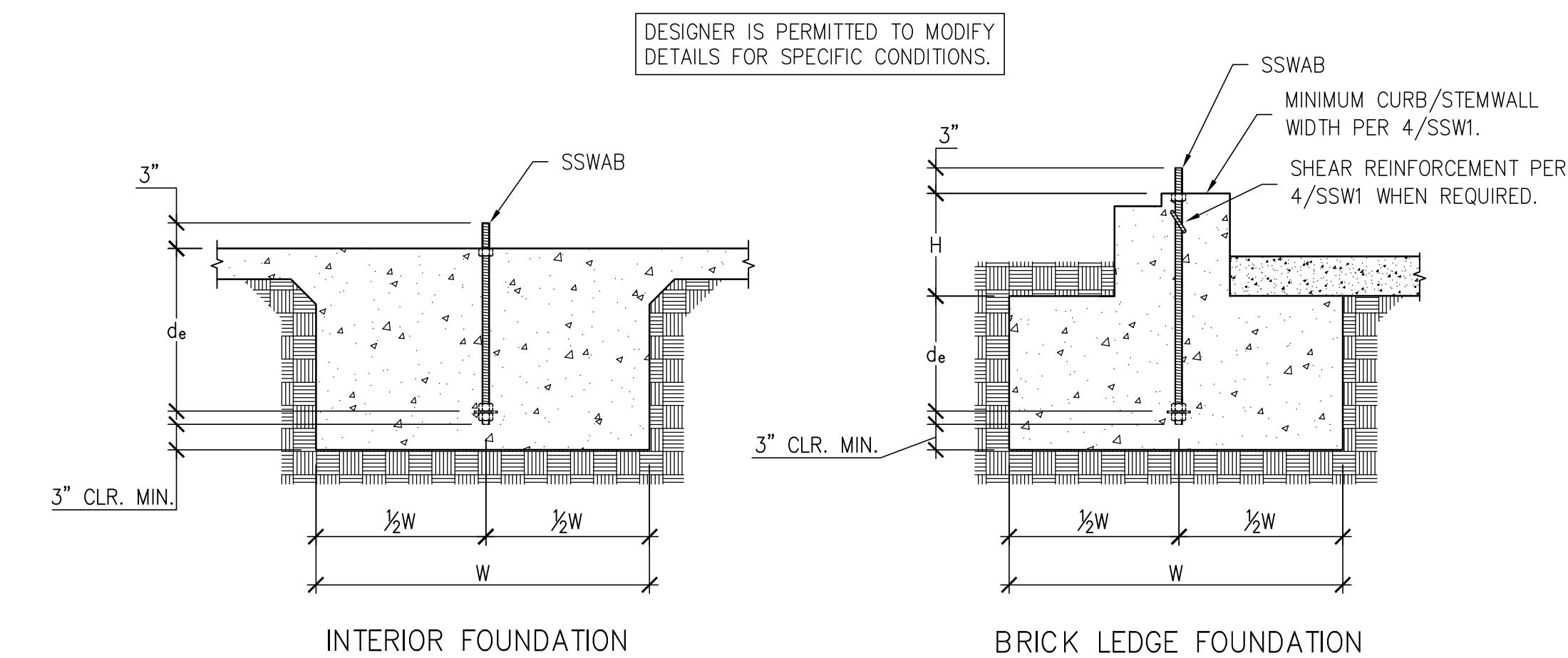
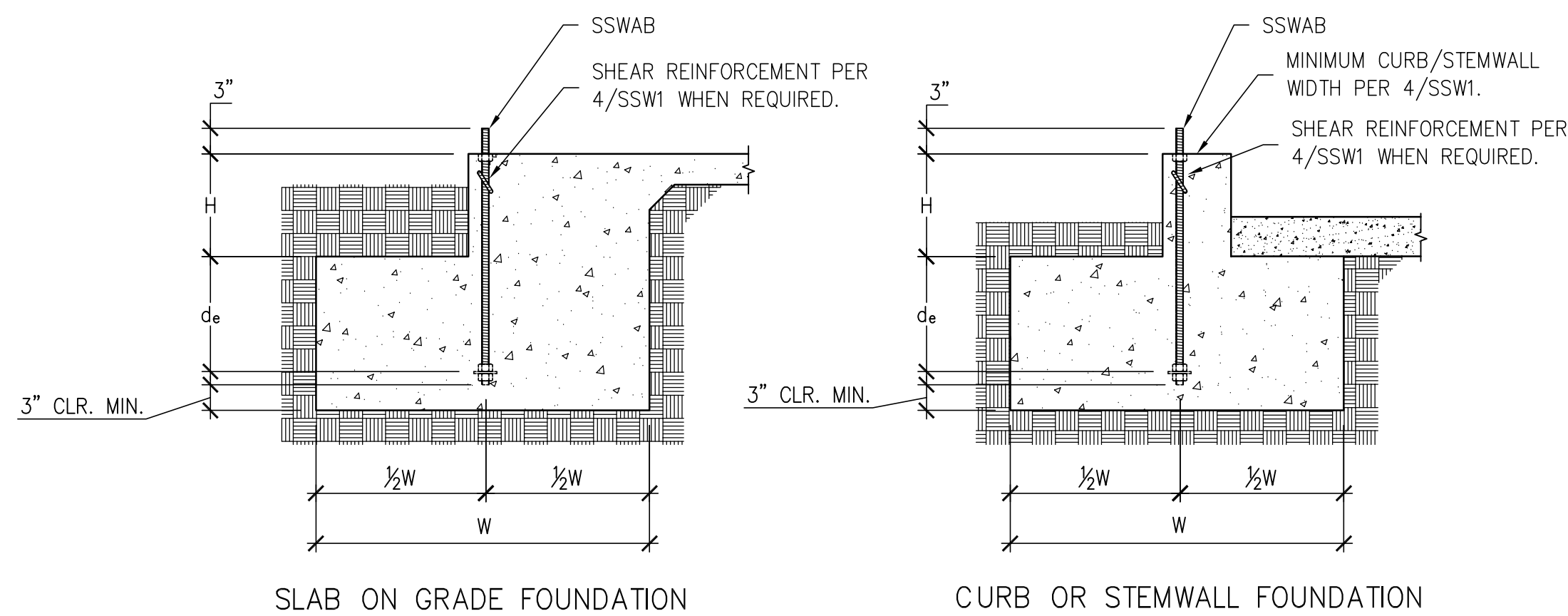
ADJOINING PANEL EDGES – NAILING TO JOISTS NAIL SPACING = 3" OR LESS (C)



NOTE: DETAILS C1 AND C2 CAN BE INTERCHANGEABLY USED AT I-JOISTS ASSEMBLY. DETAILS C3 AND C4 CAN INTERCHANGEABLY BE USED AT SAWN LUMBER ASSEMBLIES

ADJOINING PANEL EDGES – NAILING TO JOISTS NAIL SPACING = 3" OR LESS (C)





DESIGNER IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.

NOTES:  
1. SEE 2/SSW1 AND 3/SSW1 FOR DIMENSIONS AND ADDITIONAL NOTES.  
2. SEE 4/SSW1 FOR SHEAR REINFORCEMENT WHEN REQUIRED.  
3. MAXIMUM H =  $l_e - d_e$ . SEE 5/SSW1 AND 6/SSW1 FOR  $l_e$ .

### STEEL STRONG-WALL ANCHORAGE SOLUTIONS FOR 3500 PSI CONCRETE

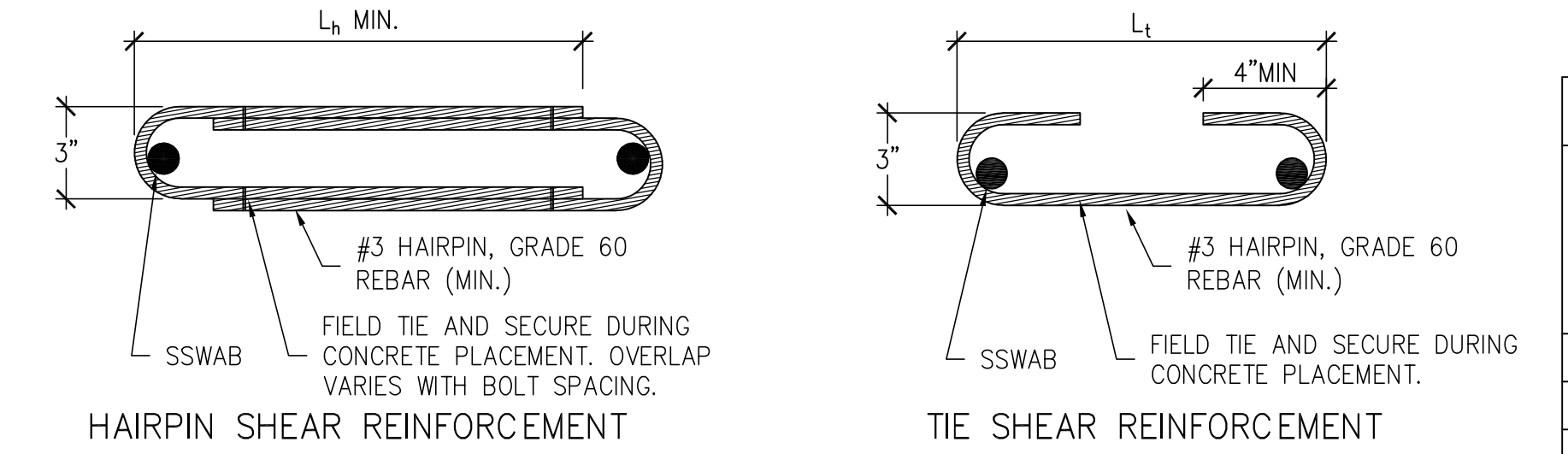
| DESIGN CRITERIA | CONCRETE CONDITION | ANCHOR STRENGTH | SSWAB 3/4" ANCHOR BOLT     |        |                     | SSWAB 1" ANCHOR BOLT       |        |                     |
|-----------------|--------------------|-----------------|----------------------------|--------|---------------------|----------------------------|--------|---------------------|
|                 |                    |                 | ASD ALLOWABLE UPLIFT (lbs) | W (in) | d <sub>e</sub> (in) | ASD ALLOWABLE UPLIFT (lbs) | W (in) | d <sub>e</sub> (in) |
| SEISMIC         | CRACKED            | STANDARD        | 9,000                      | 20     | 7                   | 15,700                     | 29     | 10                  |
|                 |                    | HIGH STRENGTH   | 9,600                      | 21     | 7                   | 17,100                     | 31     | 11                  |
|                 |                    | 18,200          | 32                         | 11     | 33,000              | 46                         | 16     |                     |
|                 | UNCRAKED           | STANDARD        | 19,900                     | 34     | 12                  | 35,300                     | 48     | 16                  |
|                 |                    | HIGH STRENGTH   | 8,800                      | 17     | 6                   | 15,700                     | 25     | 9                   |
|                 |                    | 9,600           | 19                         | 7      | 17,100              | 27                         | 9      |                     |
| WIND            | CRACKED            | STANDARD        | 18,600                     | 28     | 10                  | 32,600                     | 40     | 14                  |
|                 |                    | HIGH STRENGTH   | 19,900                     | 30     | 10                  | 35,300                     | 42     | 14                  |
|                 |                    | 6,000           | 14                         | 6      | 7,300               | 16                         | 6      |                     |
|                 | UNCRAKED           | STANDARD        | 7,300                      | 16     | 6                   | 13,500                     | 24     | 8                   |
|                 |                    | HIGH STRENGTH   | 9,600                      | 20     | 7                   | 17,100                     | 29     | 10                  |
|                 |                    | 11,800          | 22                         | 8      | 22,700              | 34                         | 12     |                     |

NOTES:  
1. ANCHORAGE DESIGNS CONFORM TO ACI 318-19, ACI 318-14 AND ACI 318-11 APPENDIX D WITH NO SUPPLEMENTARY REINFORCEMENT FOR CRACKED OR UNCRACKED CONCRETE AS NOTED.  
2. ANCHOR STRENGTH INDICATES REQUIRED GRADE OF SSWAB ANCHOR BOLT. STANDARD (ASTM F1554 GRADE 36) OR HIGH STRENGTH (HS) (ASTM A449).  
3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318-19 SECTION 17.10.5.3, ACI 318-14 SECTION 17.2.3.4.3 AND ACI 318-11 SECTION D.3.3.4.  
4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C.  
5. FOUNDATION DIMENSIONS ARE FOR ANCHORAGE ONLY. FOUNDATION DESIGN (SIZE AND REINFORCEMENT) BY OTHERS. THE DESIGNER MAY SPECIFY ALTERNATE EMBEDMENT, FOOTING SIZE OR ANCHOR BOLT.  
6. SEE 1/SSW1 AND 2/SSW1 FOR W AND d<sub>e</sub>.

### STEEL STRONG-WALL ANCHORAGE SOLUTIONS FOR 4500 PSI CONCRETE

| DESIGN CRITERIA | CONCRETE CONDITION | ANCHOR STRENGTH | SSWAB 3/4" ANCHOR BOLT     |        |                     | SSWAB 1" ANCHOR BOLT       |        |                     |
|-----------------|--------------------|-----------------|----------------------------|--------|---------------------|----------------------------|--------|---------------------|
|                 |                    |                 | ASD ALLOWABLE UPLIFT (lbs) | W (in) | d <sub>e</sub> (in) | ASD ALLOWABLE UPLIFT (lbs) | W (in) | d <sub>e</sub> (in) |
| SEISMIC         | CRACKED            | STANDARD        | 8,700                      | 18     | 6                   | 16,000                     | 27     | 9                   |
|                 |                    | HIGH STRENGTH   | 9,600                      | 20     | 7                   | 17,100                     | 29     | 10                  |
|                 |                    | 17,800          | 29                         | 10     | 32,100              | 42                         | 14     |                     |
|                 | UNCRAKED           | STANDARD        | 19,900                     | 32     | 11                  | 35,300                     | 45     | 15                  |
|                 |                    | HIGH STRENGTH   | 9,100                      | 16     | 6                   | 15,700                     | 23     | 8                   |
|                 |                    | 9,600           | 17                         | 6      | 17,100              | 25                         | 9      |                     |
| WIND            | CRACKED            | STANDARD        | 17,800                     | 25     | 9                   | 32,500                     | 37     | 13                  |
|                 |                    | HIGH STRENGTH   | 19,900                     | 27     | 9                   | 35,300                     | 39     | 13                  |
|                 |                    | 5,400           | 12                         | 6      | 6,800               | 14                         | 6      |                     |
|                 | UNCRAKED           | STANDARD        | 8,300                      | 16     | 6                   | 11,800                     | 20     | 7                   |
|                 |                    | HIGH STRENGTH   | 9,600                      | 18     | 6                   | 17,100                     | 26     | 9                   |
|                 |                    | 11,600          | 20                         | 7      | 21,400              | 30                         | 10     |                     |

### SSWAB TENSION ANCHORAGE SCHEDULE 3500/4500 PSI

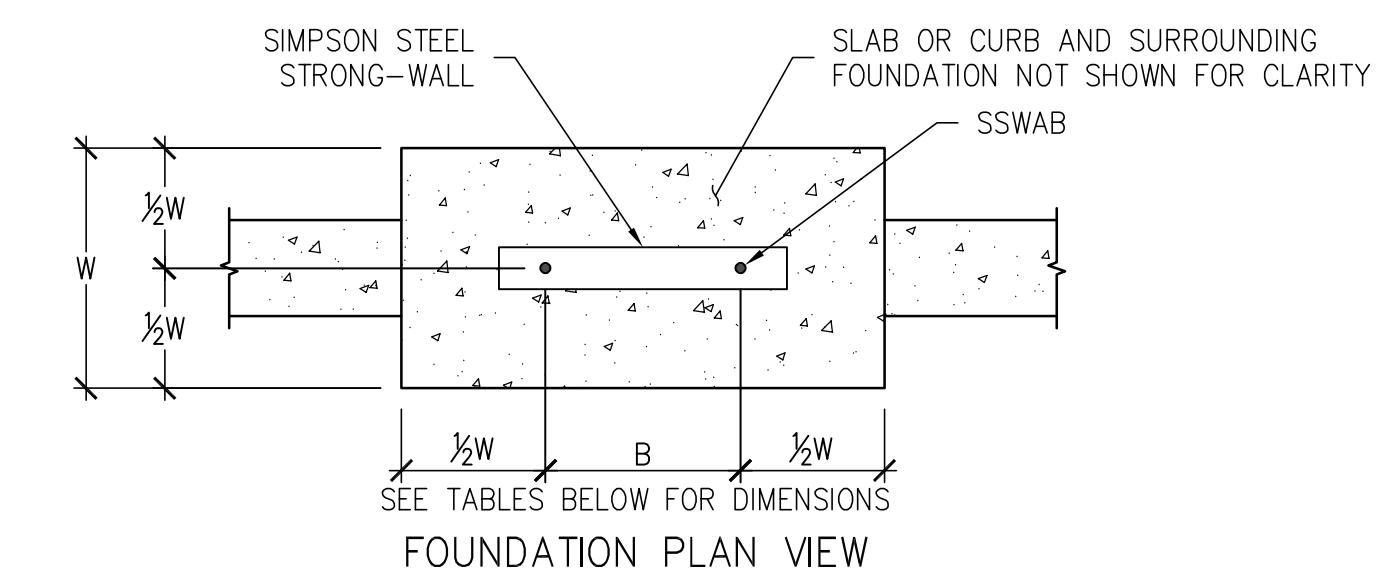


### STEEL STRONG-WALL SHEAR ANCHORAGE

| MODEL | SEISMIC <sup>3</sup>                   |                     |                                 |                     | WIND <sup>4</sup>  |                        |          |         |
|-------|--|---------------------|---------------------------------|---------------------|--|------------------------|----------|---------|
|       | L <sub>t</sub> OR L <sub>v</sub> (in.) | SHEAR REINFORCEMENT | MIN. CURB / STEMWALL WTDH (in.) | SHEAR REINFORCEMENT | ASD ALLOWABLE SHEAR LOAD V (lbs.) <sup>5</sup>   |                        |          |         |
|       |  |                     |                                 |                     | 6" MIN CURB / STEMWALL   | 8" MIN CURB / STEMWALL | UNCRAKED | CRACKED |
| SSW12 | 9                                      | (1) #3 TIE          | 6                               | NONE REQUIRED       | 1230   | 880                    | 1440     | 1030    |
| SSW15 | 12                                     | (2) #3 TIES         | 6                               | NONE REQUIRED       | 1590   | 1135                   | 1810     | 1295    |
| SSW18 | 14                                     | (1) #3 HAIRPIN      | 8 <sup>5</sup>                  | (1) #3 HAIRPIN      | HAIRPIN REINFORCEMENT ACHIEVES MAXIMUM ALLOWABLE SHEAR LOAD OF THE STEEL STRONG-WALL PANEL |                        |          |         |
| SSW21 | 15                                     | (2) #3 HAIRPIN      | 8 <sup>5</sup>                  | (1) #3 HAIRPIN      |  |                        |          |         |
| SSW24 | 17                                     | (2) #3 HAIRPIN      | 8 <sup>5</sup>                  | (1) #3 HAIRPIN      |  |                        |          |         |

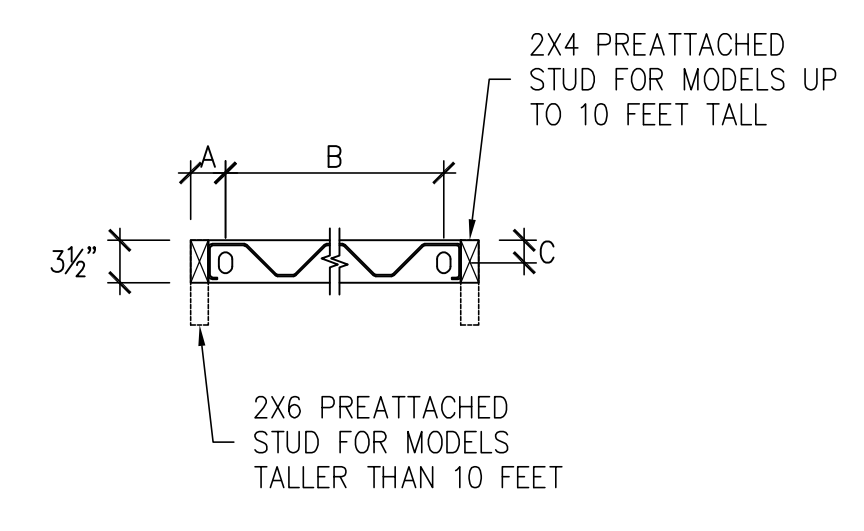
NOTES:  
1. SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-19, ACI 318-14 AND ACI 318-11 AND ASSUME MINIMUM f<sub>c</sub> = 2,500 PSI CONCRETE. SEE DETAILS 1/SSW1 TO 3/SSW1 FOR TENSION ANCHORAGE.  
2. SHEAR REINFORCEMENT IS NOT REQUIRED FOR PANELS INSTALLED ON A WOOD FLOOR, INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE), OR BRACED WALL PANEL APPLICATIONS.  
3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS.  
4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B.  
5. MINIMUM CURB/STEMWALL WIDTH IS 6" WHEN STANDARD STRENGTH SSWAB IS USED.  
6. USE (1) #3 TIE FOR SSW12 AND SSW15 WHEN THE STEEL STRONG-WALL PANEL DESIGN SHEAR FORCE EXCEEDS THE TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.  
7. CONCRETE EDGE DISTANCE FOR ANCHORS MUST COMPLY WITH ACI 318-19 SECTION 17.9.2, ACI 318-14 SECTION 17.7.2 AND ACI 318-11 D.8.2.

### STEEL STRONG-WALL ANCHORAGE - TYPICAL SECTIONS



### STEEL STRONG-WALL ANCHORAGE SOLUTIONS FOR 2500 PSI CONCRETE

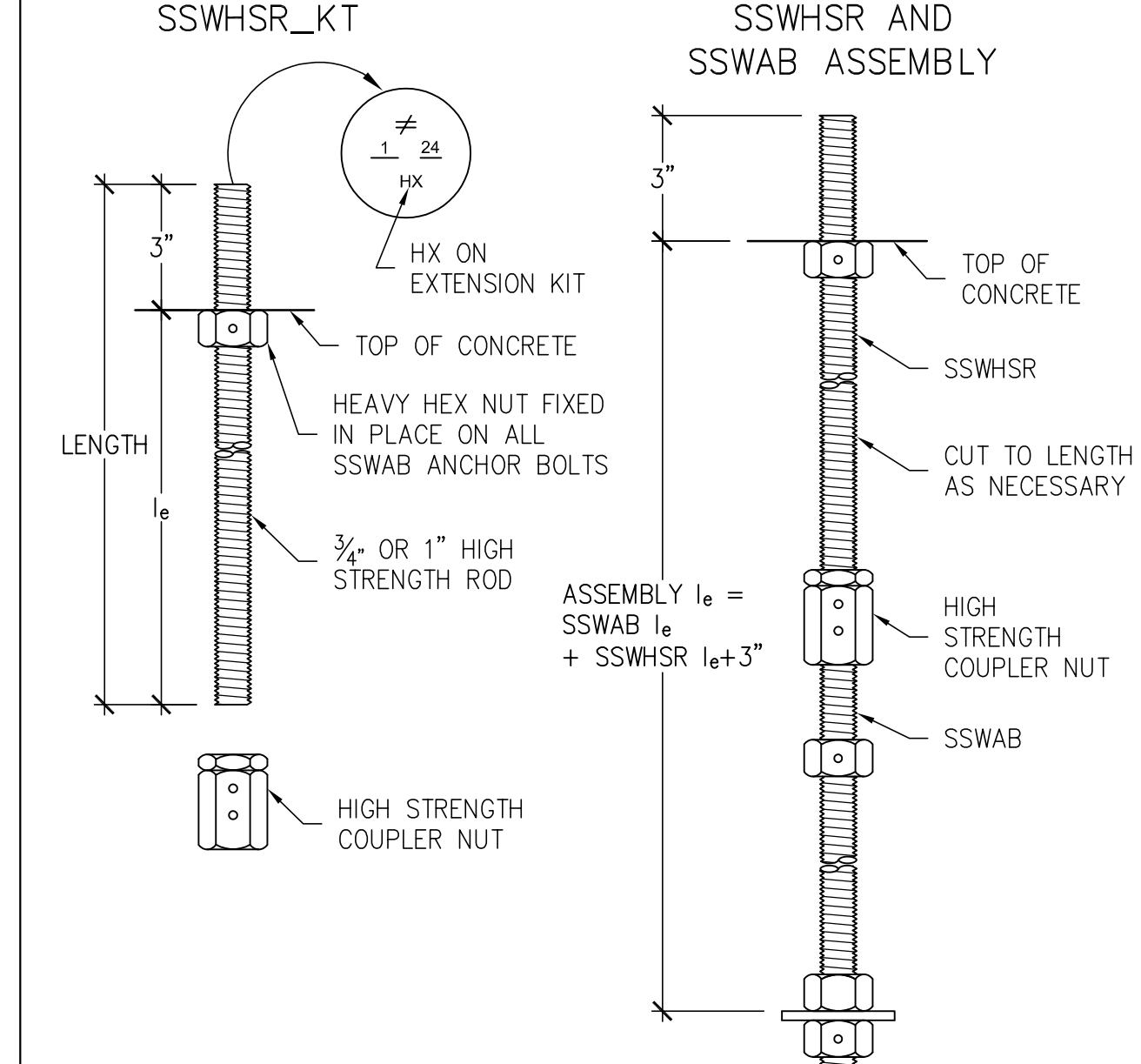
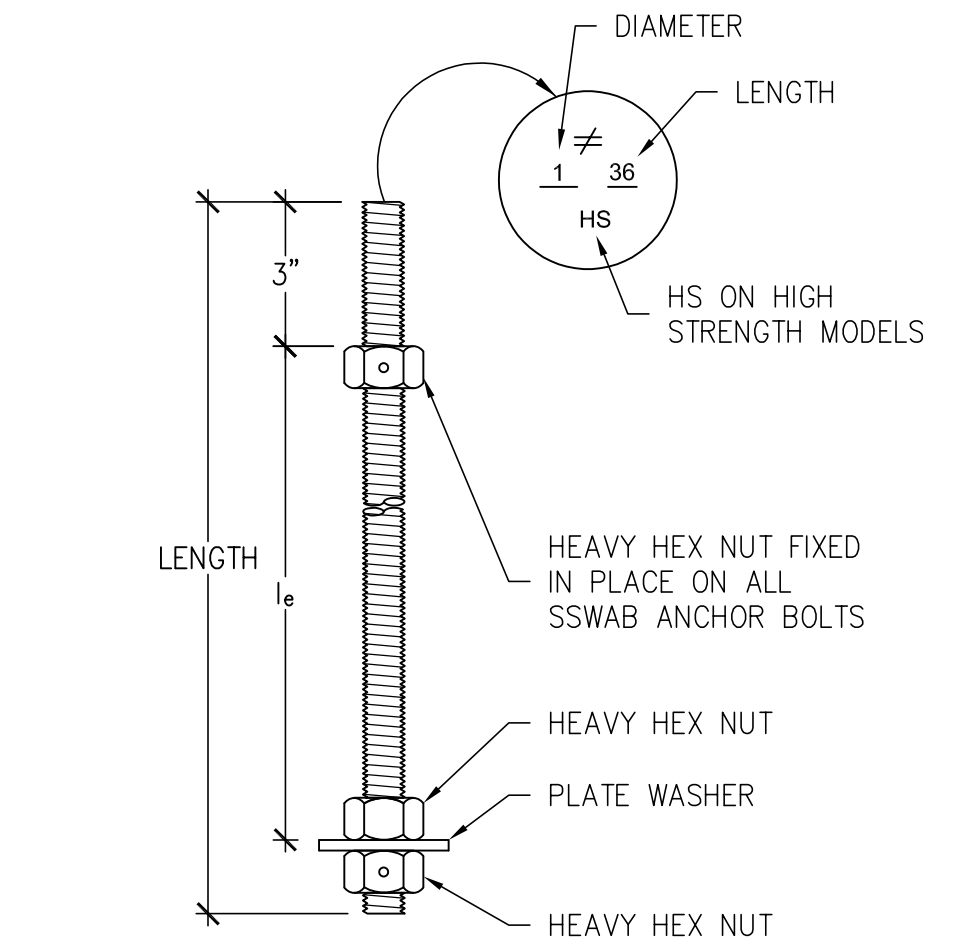
| DESIGN CRITERIA | CONCRETE CONDITION | ANCHOR STRENGTH | SSWAB 3/4" ANCHOR BOLT     |        |                     | SSWAB 1" ANCHOR BOLT       |        |                     |
|-----------------|--------------------|-----------------|----------------------------|--------|---------------------|----------------------------|--------|---------------------|
|                 |                    |                 | ASD ALLOWABLE UPLIFT (lbs) | W (in) | d <sub>e</sub> (in) | ASD ALLOWABLE UPLIFT (lbs) | W (in) | d <sub>e</sub> (in) |
| SEISMIC         | CRACKED            | STANDARD        | 8,800                      | 22     | 8                   | 16,100                     | 33     | 11                  |
|                 |                    | HIGH STRENGTH   | 9,600                      | 24     | 8                   | 17,100                     | 35     | 12                  |
|                 |                    | 18,500          | 36                         | 12     | 33,000              | 51                         | 17     |                     |
|                 | UNCRAKED           | STANDARD        | 19,900                     | 38     | 13                  | 35,300                     | 54     | 18                  |
|                 |                    | HIGH STRENGTH   | 8,800                      | 19     | 7                   | 15,700                     | 28     | 10                  |
|                 |                    | 9,600           | 21                         | 7      | 17,100              | 30                         | 10     |                     |
| WIND            | CRACKED            | STANDARD        | 18,300                     | 31     | 11                  | 32,300                     | 44     | 15                  |
|                 |                    | HIGH STRENGTH   | 19,900                     | 33     | 11                  | 35,300                     | 47     | 16                  |
|                 |                    | 5,100           | 14                         | 6      | 6,200               | 16                         | 6      |                     |
|                 | UNCRAKED           | STANDARD        | 7,400                      | 18     | 6                   | 11,400                     | 24     | 8                   |
|                 |                    | HIGH STRENGTH   | 9,600                      | 22     | 8                   | 17,100                     | 32     | 11                  |
|                 |                    | 11,400          | 24                         | 8      | 21,100              | 36                         | 12     |                     |



### STEEL STRONG-WALL® ANCHOR BOLT LAYOUT

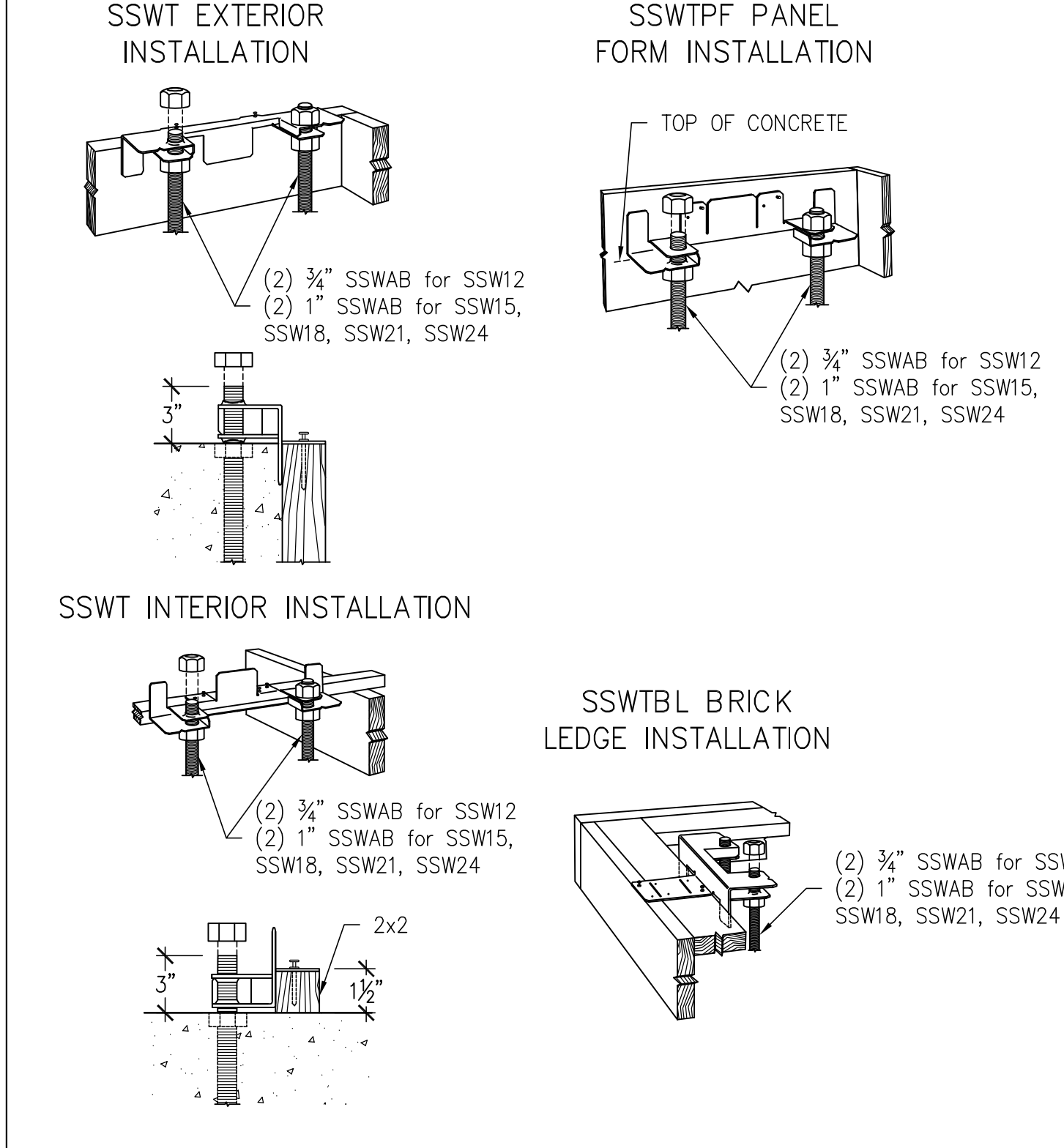
| WALL MODEL | DISTANCE FROM END OF WALL TO CENTER OF SSWABs (A) (in.) | DISTANCE FROM CENTER TO CENTER OF SSWABs (B) (in.) | DISTANCE FROM EXTERIOR FACE OF WALL TO CENTER OF ALL SSWABs (C) (in.) |
|------------|---|--|---|
| SSW12      | 2 3/4"  | 6 3/4"   | 2"  |
| SSW15      | 2 3/4"  | 9 3/4"   | 1 3/4"  |
| SSW18      | 2 3/4"  | 12 3/4"  | 1 3/4"  |
| SSW21      | 2 3/4"  | 15 3/4"  | 1 3/4"  |
| SSW24      | 2 3/4"  | 18 3/4"  | 1 3/4"  |

### STEEL STRONG-WALL ANCHOR BOLT SHEAR ANCHORAGE



| STEEL STRONG-WALL WIDTH      | MODEL NO.     | DIAMETER | LENGTH | l <sub>e</sub> |
|------------------------------|---------------|----------|--------|----------------|
| 12" MODEL                    | SSWAB3/4x24   | 3/4"     | 24"    | 19"            |
|                              | SSWAB3/4x24HS | 3/4"     | 24"    | 19"            |
|                              | SSWAB3/4x30   | 3/4"     | 30"    | 25"            |
|                              | SSWAB3/4x30HS | 3/4"     | 30"    | 25"            |
|                              | SSWAB3/4x36HS | 3/4"     | 36"    | 31"            |
| 15", 18", 21" AND 24" MODELS | SSWAB1x24     | 1"       | 24"    | 19"            |
|                              | SSWAB1x24HS   | 1"       | 24"    | 19"            |
|                              | SSWAB1x30     | 1"       | 30"    | 25"            |
|                              | SSWAB1x30HS   | 1"       | 30"    | 25"            |

| SSW WIDTH                    | MODEL NO.     | DIAMETER | TOTAL LENGTH | l <sub>e</sub> |
|------------------------------|---------------|----------|--------------|----------------|
| 12" MODEL                    | SSWHSR3/4-2KT | 3/4"     | 24"          | 21"            |
|                              | SSWHSR3/4-3KT | 3/4"     | 36"          | 33"            |
| 15", 18", 21" AND 24" MODELS | SSWHSR1-2KT   | 1"       | 24"          | 21"            |
|                              | SSWHSR1-3KT   | 1"       | 36"          | 33"            |



### SSWAB TENSION ANCHORAGE SCHEDULE 2500 PSI

NOTES:  
1. ANCHORAGE DESIGNS CONFORM TO ACI 318-19, ACI 318-14 AND ACI 318-11 APPENDIX D WITH NO SUPPLEMENTARY REINFORCEMENT FOR CRACKED OR UNCRACKED CONCRETE AS NOTED.  
2. ANCHOR STRENGTH INDICATES REQUIRED GRADE OF SSWAB ANCHOR BOLT. STANDARD (ASTM F1554 GRADE 36) OR HIGH STRENGTH (HS) (ASTM A449).  
3. SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318-19 SECTION 17.10.5.3, ACI 318-14 SECTION 17.2.3.4.3 AND ACI 318-11 SECTION D.3.3.4.  
4. WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SDC C.  
5. FOUNDATION DIMENSIONS ARE FOR ANCHORAGE ONLY. FOUNDATION DESIGN (SIZE AND REINFORCEMENT) BY OTHERS. THE DESIGNER MAY SPECIFY ALTERNATE EMBEDMENT, FOOTING SIZE OR ANCHOR BOLT.  
6. REFER TO 1/SSW1 FOR d<sub>e</sub>.

### SSW ANCHOR BOLTS

### SSW ANCHOR BOLT EXTENSION

### SSW ANCHOR BOLT TEMPLATES

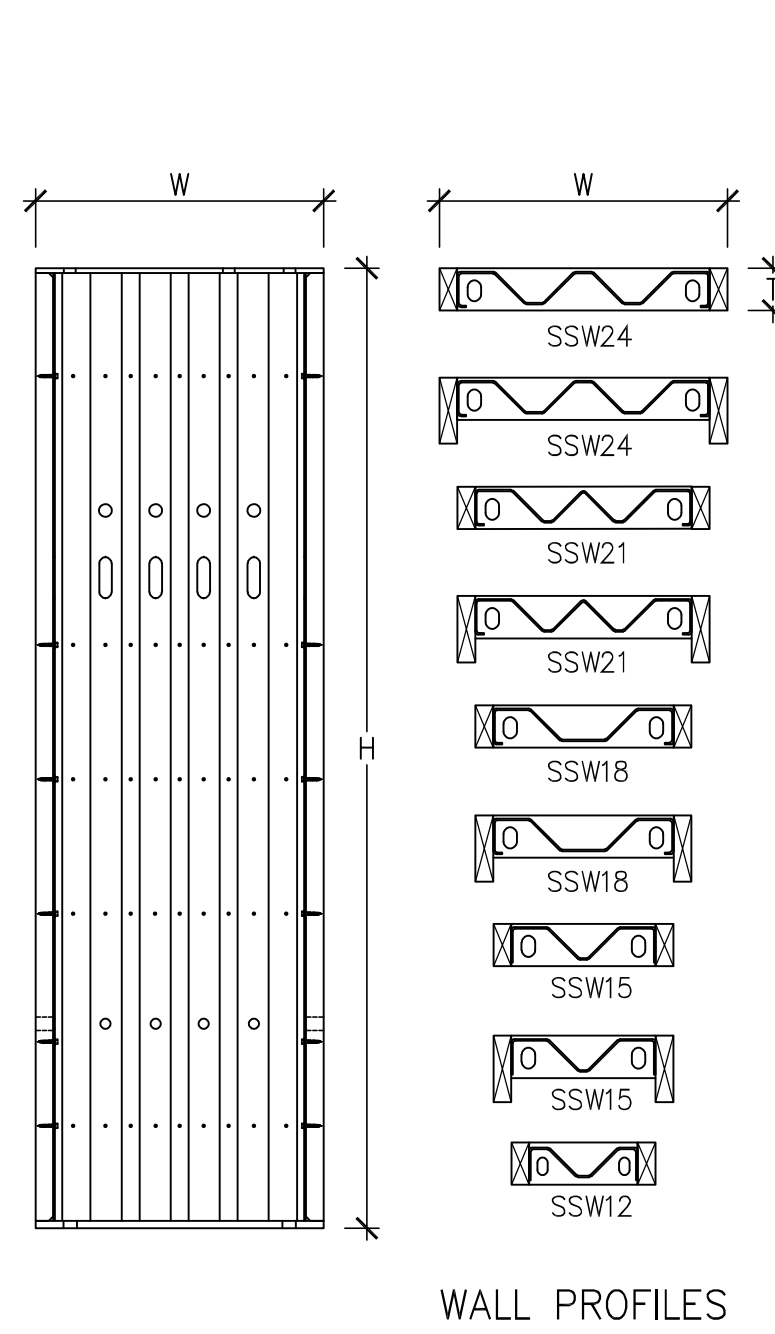
| NO. | DATE       | REVISIONS         |
|-----|------------|-------------------|
| 1   | 09-21-2009 | 2006 BC REVISIONS |
| 2   | 04-16-2014 | 2012 BC REVISIONS |
| 3   | 08-08-2016 | 2015 BC REVISIONS |
| 4   | 06-18-2020 | 2018 BC REVISIONS |
| 5   | 03-16-2021 | 2021 BC REVISIONS |

**SIMPSON Strong-Tie, Co. Inc.**  
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 Pleasanton, CA 94588  
 • Tel: (800) 999-5099  
 • Website: www.strongtie.com  
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**STEEL STRONG-WALL ANCHORAGE DETAILS ENGINEERED DESIGNS**  
 SIMPSON Strong-Tie  
 THERE IS NO EQUAL

|           |            |
|-----------|------------|
| NAME      |            |
| DATE      | 03-16-2021 |
| SCALE     | N.T.S.     |
| CHECKED   |            |
| SHEET     | SSW1       |
| OF SHEETS |            |
| JOB NO.   |            |

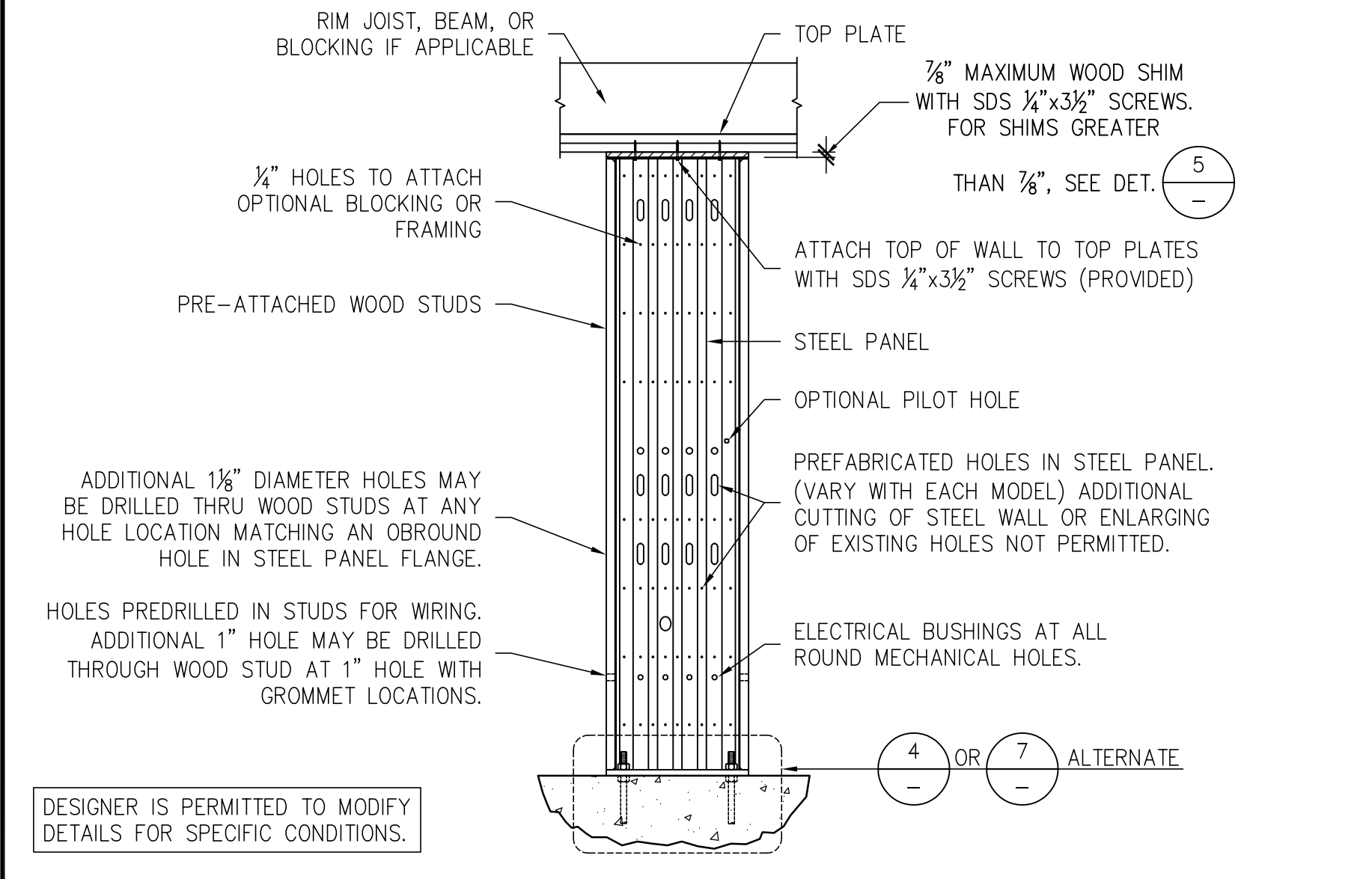




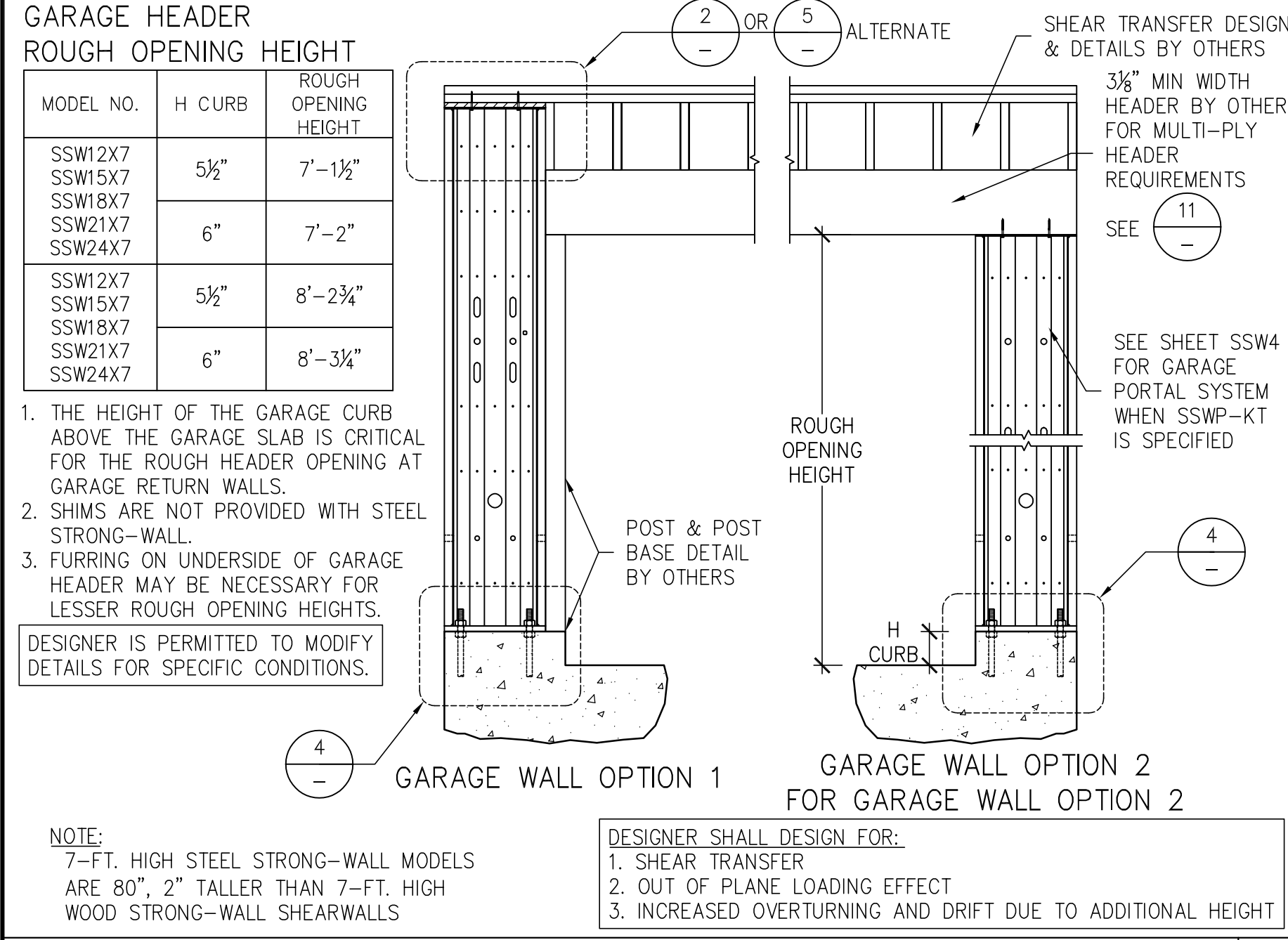
| STEEL STRONG-WALL MODELS |                     |         |       |                                   |   |  |
|--------------------------|---------------------|---------|-------|-----------------------------------|---|--|
| STD. WALL MODEL NO.      | -STK WALL MODEL NO. | H(in)   | T(in) | HOLDOWN ANCHOR BOLTS <sup>1</sup> | QTY. OF TOP OF WALL SCREWS <sup>1</sup> |  |
| SSW12x7                  | --                  | 80      | 3 3/8 | 2-3/4"                            | 4                                       |  |
| SSW15x7                  | --                  | 80      | 3 3/8 | 2-1"                              | 6                                       |  |
| SSW18x7                  | --                  | 80      | 3 3/8 | 2-1"                              | 9                                       |  |
| SSW21x7                  | --                  | 80      | 3 3/8 | 2-1"                              | 12                                      |  |
| SSW24x7                  | --                  | 80      | 3 3/8 | 2-1"                              | 14                                      |  |
| SSW12x7.4                | --                  | 85 3/8  | 3 3/8 | 2-3/4"                            | 4                                       |  |
| SSW15x7.4                | --                  | 85 3/8  | 3 3/8 | 2-1"                              | 6                                       |  |
| SSW18x7.4                | --                  | 85 3/8  | 3 3/8 | 2-1"                              | 9                                       |  |
| SSW21x7.4                | --                  | 85 3/8  | 3 3/8 | 2-1"                              | 12                                      |  |
| SSW24x7.4                | --                  | 85 3/8  | 3 3/8 | 2-1"                              | 14                                      |  |
| SSW12x8                  | --                  | 93 3/8  | 3 3/8 | 2-3/4"                            | 4                                       |  |
| SSW15x8                  | SSW15x8-STK         | 93 3/8  | 3 3/8 | 2-1"                              | 6                                       |  |
| SSW18x8                  | SSW18x8-STK         | 93 3/8  | 3 3/8 | 2-1"                              | 9                                       |  |
| SSW21x8                  | SSW21x8-STK         | 93 3/8  | 3 3/8 | 2-1"                              | 12                                      |  |
| SSW24x8                  | SSW24x8-STK         | 93 3/8  | 3 3/8 | 2-1"                              | 14                                      |  |
| SSW12x9                  | --                  | 105 3/8 | 3 3/8 | 2-3/4"                            | 4                                       |  |
| SSW15x9                  | SSW15x9-STK         | 105 3/8 | 3 3/8 | 2-1"                              | 6                                       |  |
| SSW18x9                  | SSW18x9-STK         | 105 3/8 | 3 3/8 | 2-1"                              | 9                                       |  |
| SSW21x9                  | SSW21x9-STK         | 105 3/8 | 3 3/8 | 2-1"                              | 12                                      |  |
| SSW24x9                  | SSW24x9-STK         | 105 3/8 | 3 3/8 | 2-1"                              | 14                                      |  |
| SSW12x10                 | --                  | 117 3/8 | 3 3/8 | 2-3/4"                            | 4                                       |  |
| SSW15x10                 | SSW15x10-STK        | 117 3/8 | 3 3/8 | 2-1"                              | 6                                       |  |
| SSW18x10                 | SSW18x10-STK        | 117 3/8 | 3 3/8 | 2-1"                              | 9                                       |  |
| SSW21x10                 | SSW21x10-STK        | 117 3/8 | 3 3/8 | 2-1"                              | 12                                      |  |
| SSW24x10                 | SSW24x10-STK        | 117 3/8 | 3 3/8 | 2-1"                              | 14                                      |  |
| SSW15x11                 | SSW15x11-STK        | 129 3/8 | 5 3/8 | 2-1"                              | 6                                       |  |
| SSW18x11                 | SSW18x11-STK        | 129 3/8 | 5 3/8 | 2-1"                              | 9                                       |  |
| SSW21x11                 | SSW21x11-STK        | 129 3/8 | 5 3/8 | 2-1"                              | 12                                      |  |
| SSW24x11                 | SSW24x11-STK        | 129 3/8 | 5 3/8 | 2-1"                              | 14                                      |  |
| SSW15x12                 | SSW15x12-STK        | 141 3/8 | 5 3/8 | 2-1"                              | 6                                       |  |
| SSW18x12                 | SSW18x12-STK        | 141 3/8 | 5 3/8 | 2-1"                              | 9                                       |  |
| SSW21x12                 | SSW21x12-STK        | 141 3/8 | 5 3/8 | 2-1"                              | 12                                      |  |
| SSW24x12                 | SSW24x12-STK        | 141 3/8 | 5 3/8 | 2-1"                              | 14                                      |  |
| SSW18x13                 | SSW18x13-STK        | 153 3/8 | 5 3/8 | 2-1"                              | 9                                       |  |
| SSW21x13                 | SSW21x13-STK        | 153 3/8 | 5 3/8 | 2-1"                              | 12                                      |  |
| SSW24x13                 | SSW24x13-STK        | 153 3/8 | 5 3/8 | 2-1"                              | 14                                      |  |

TABLE NOTES:  
 1. SDS 1/4"x3/8" SCREWS PROVIDED WITH WALL.  
 2. SEE SHEET SSW1 FOR ANCHORAGE SOLUTIONS.

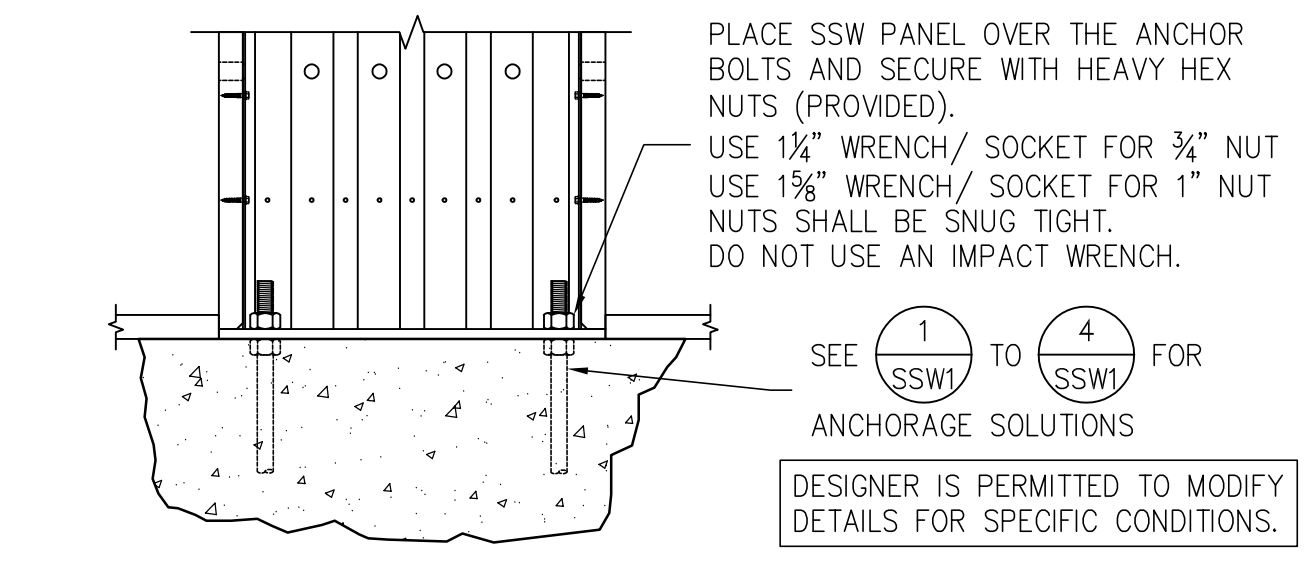
STEEL STRONG-WALL MODELS 1



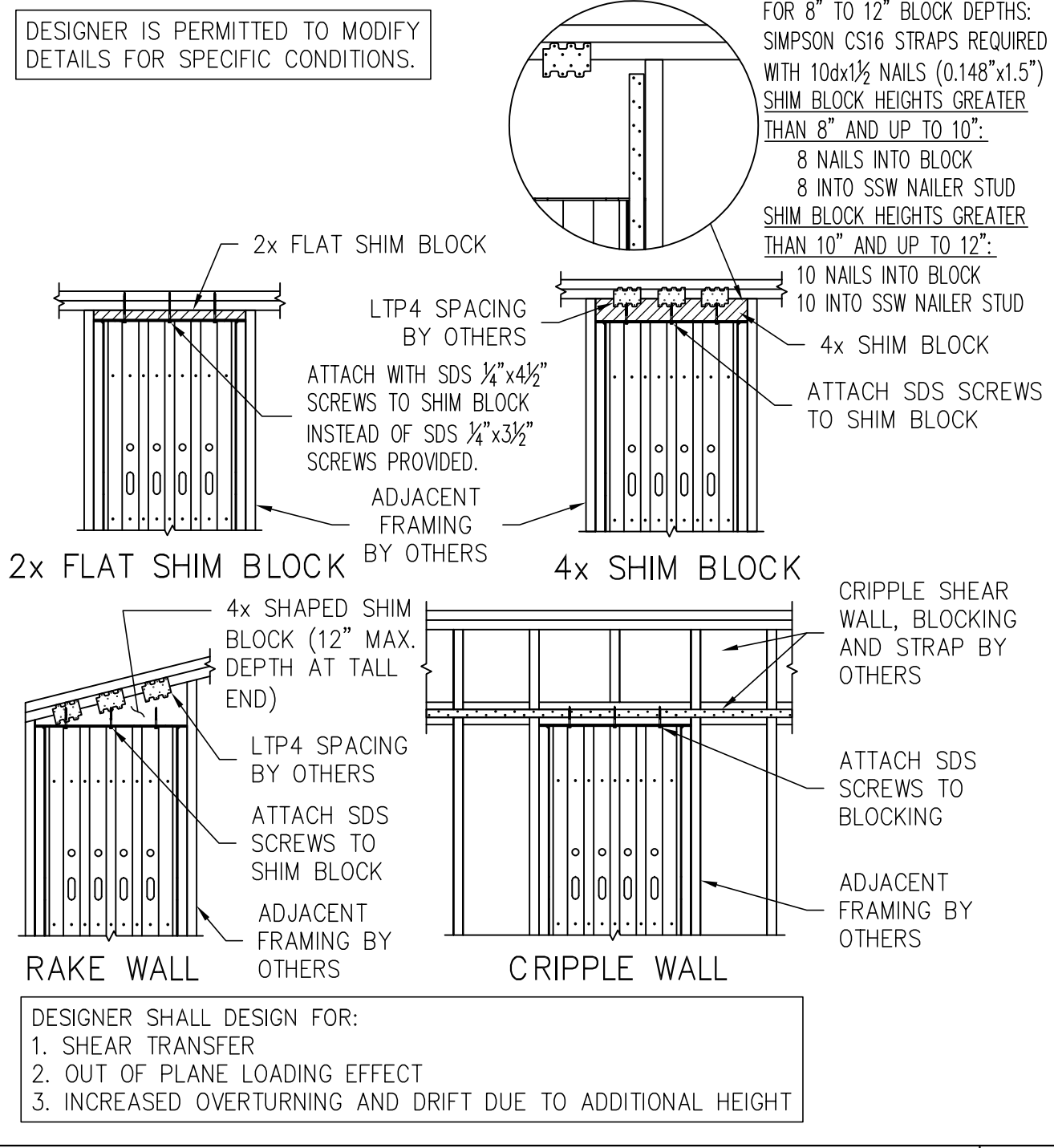
SINGLE-STORY SSW ON CONCRETE 2



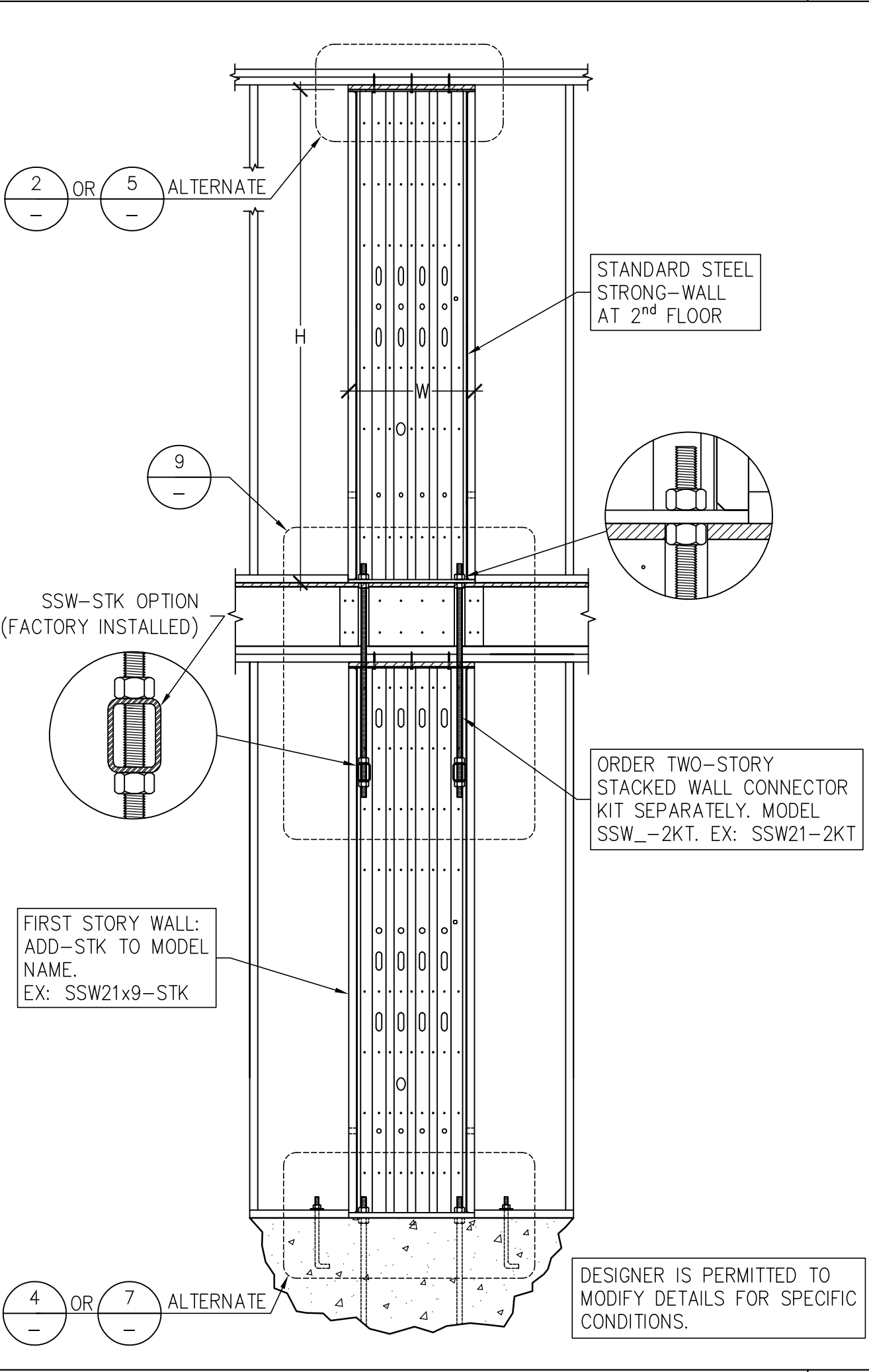
ALTERNATE GARAGE WALL OPTIONS 3



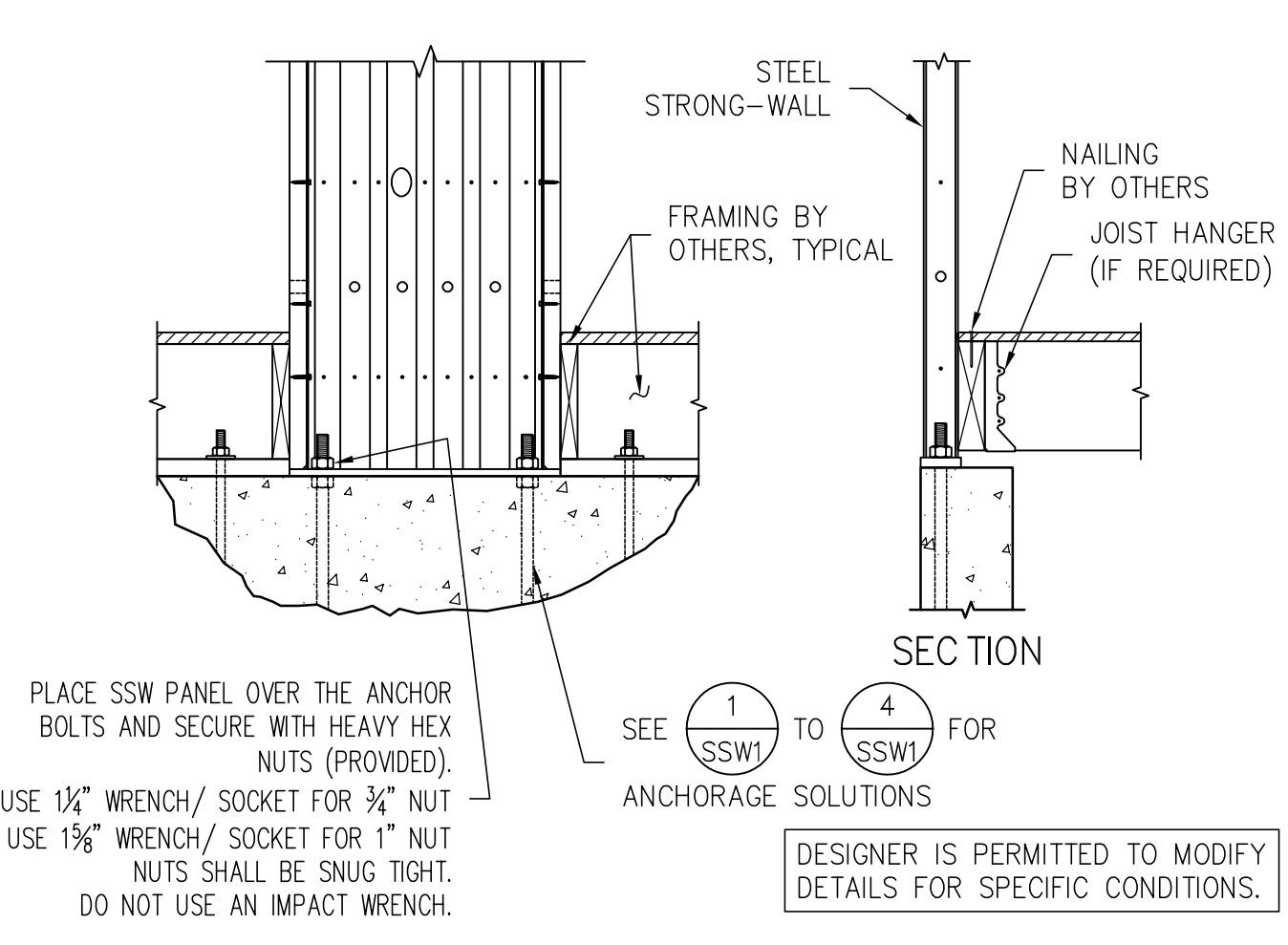
STRONG-WALL ON CONCRETE 4



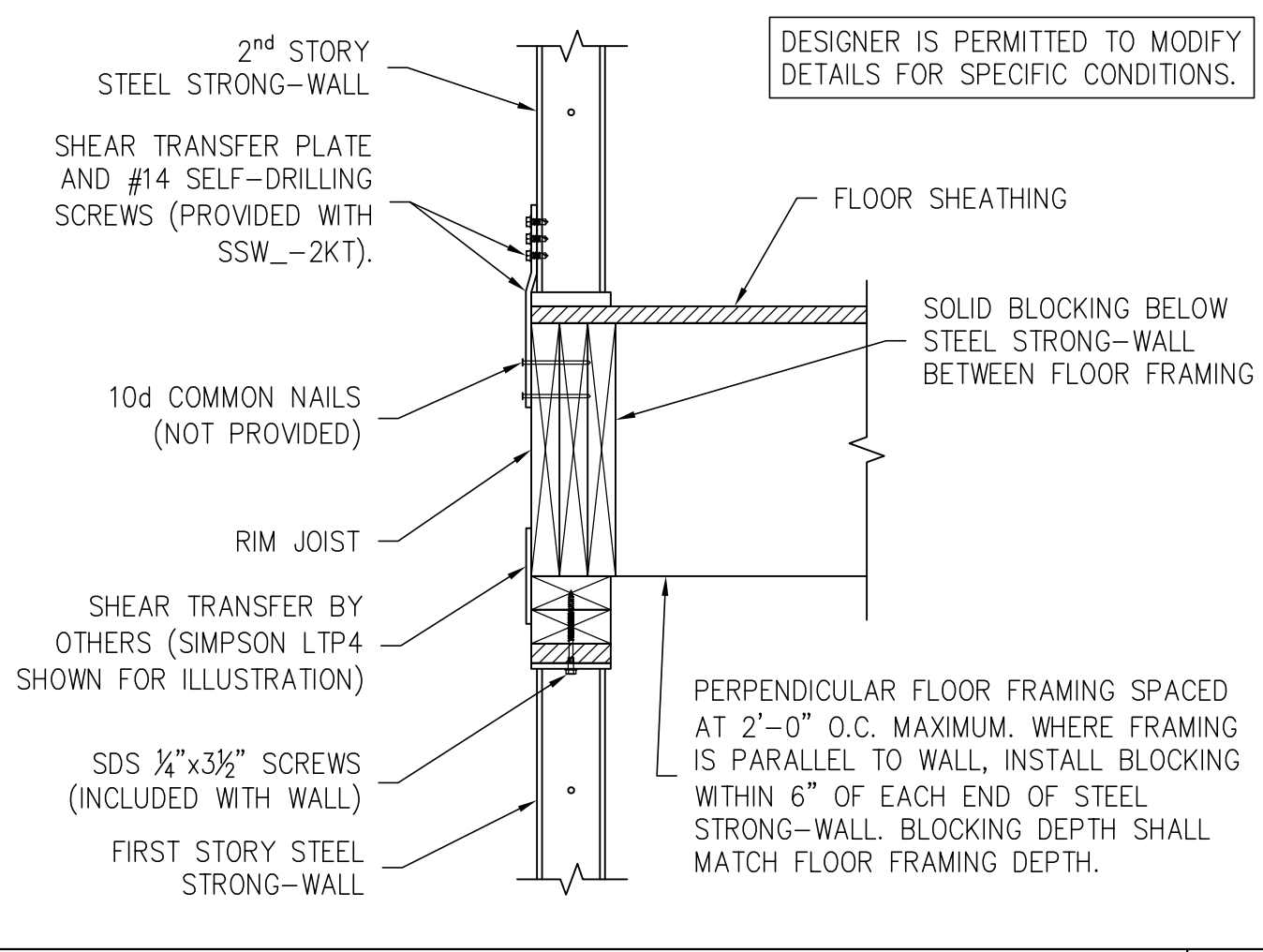
TOP OF WALL HEIGHT ADJUSTMENTS 5



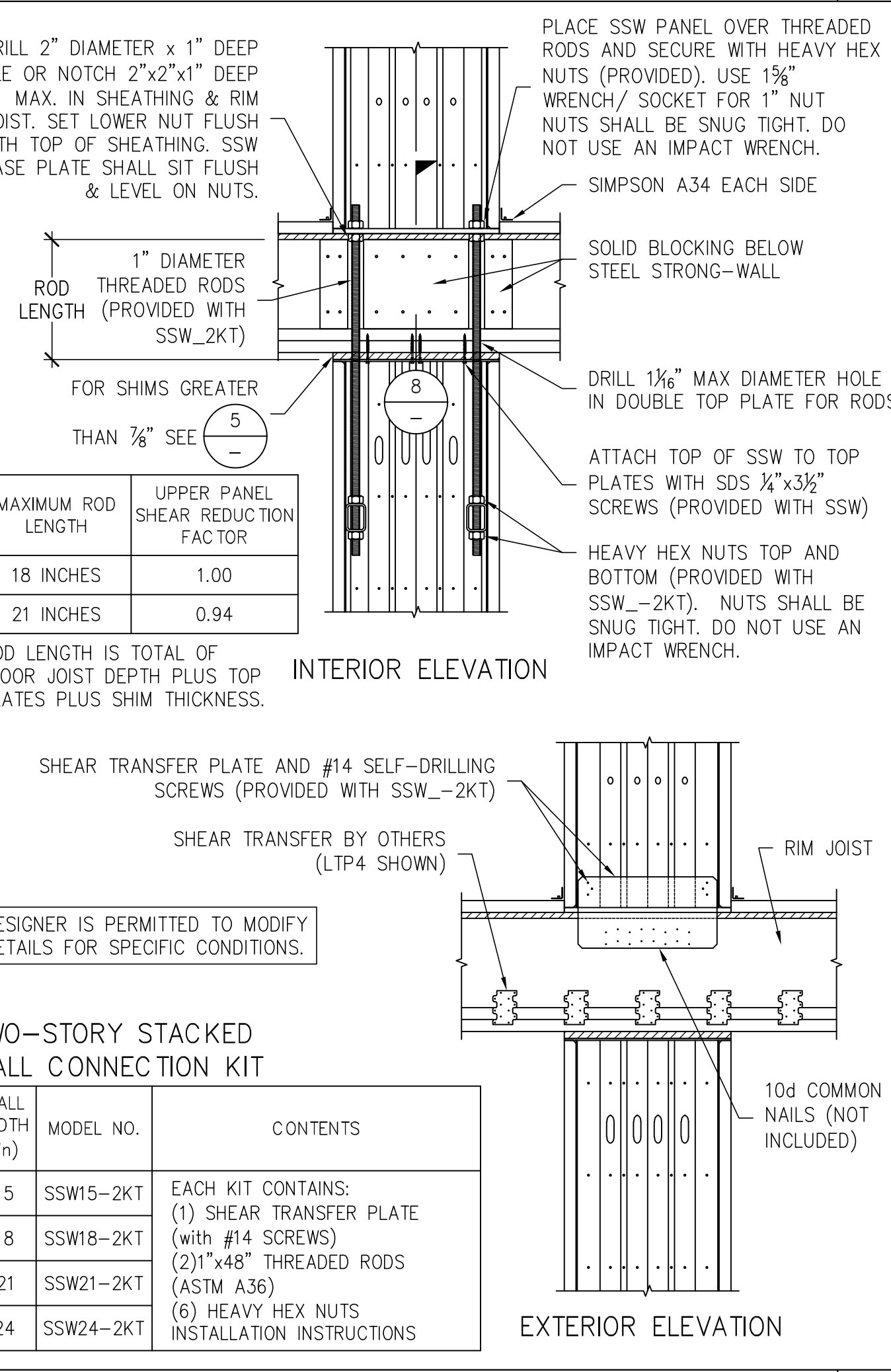
TWO-STORY STACKED 6



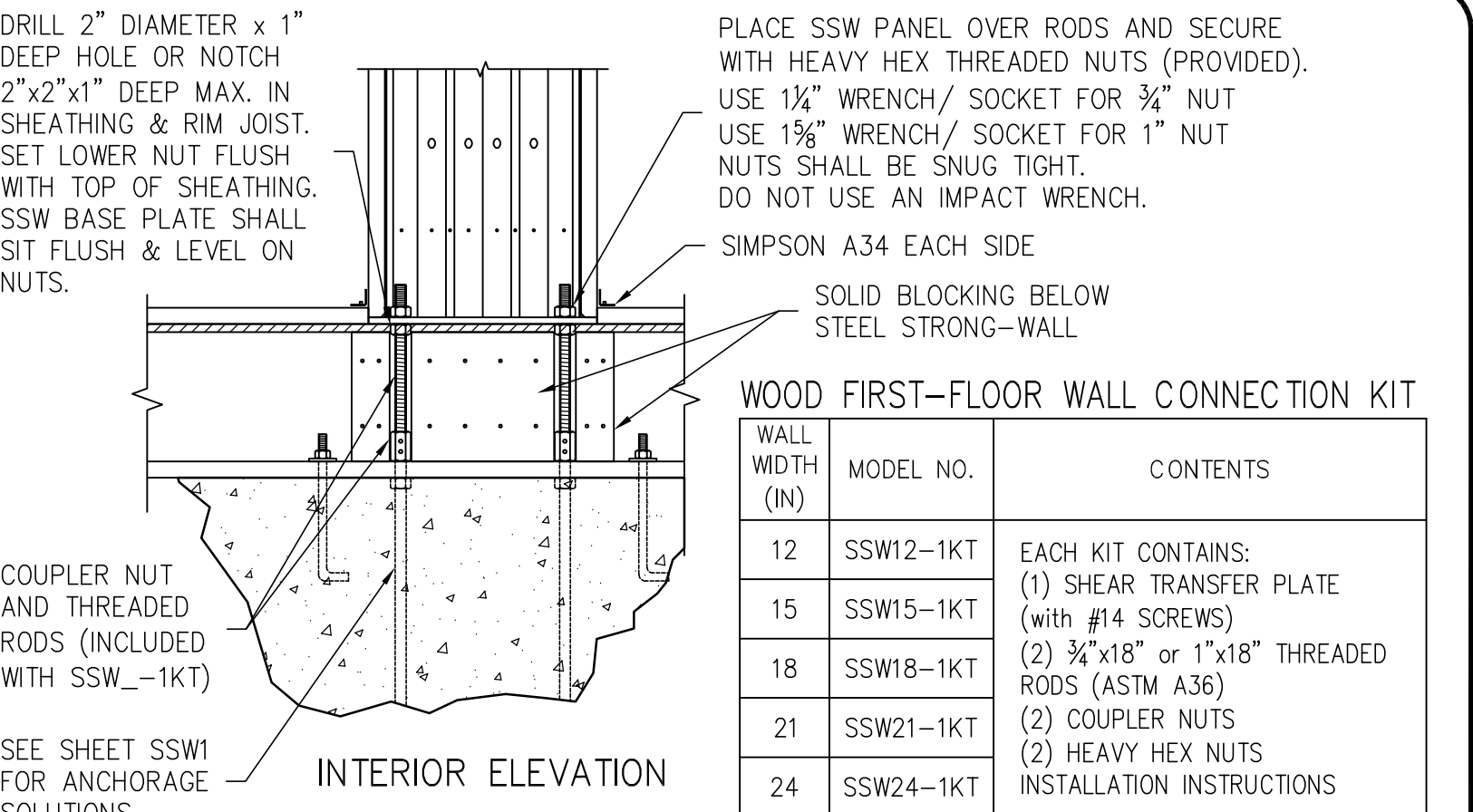
ALTERNATE 1ST FLOOR WOOD FRAMING 7



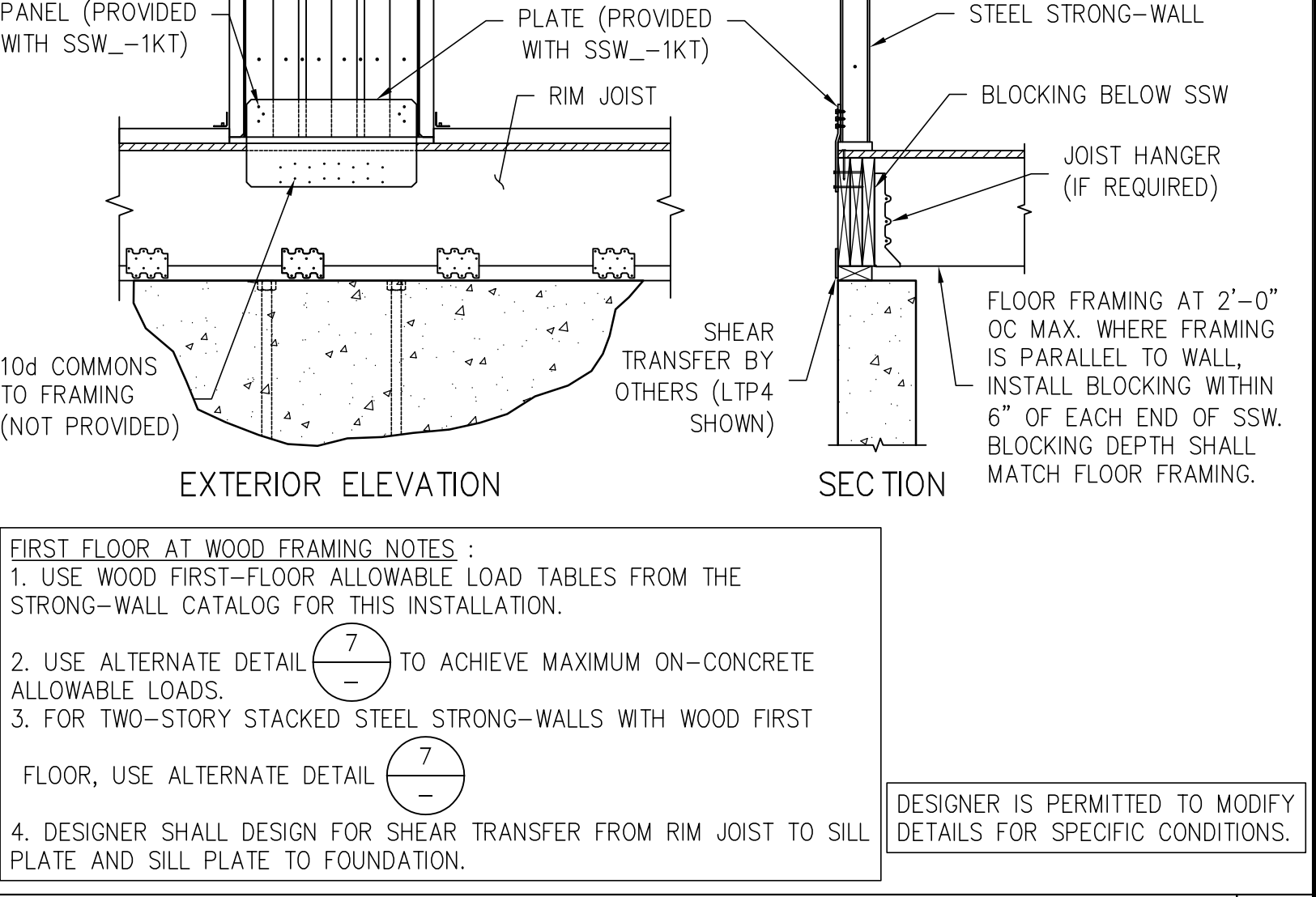
TWO-STORY STACKED FLOOR SECTION 8



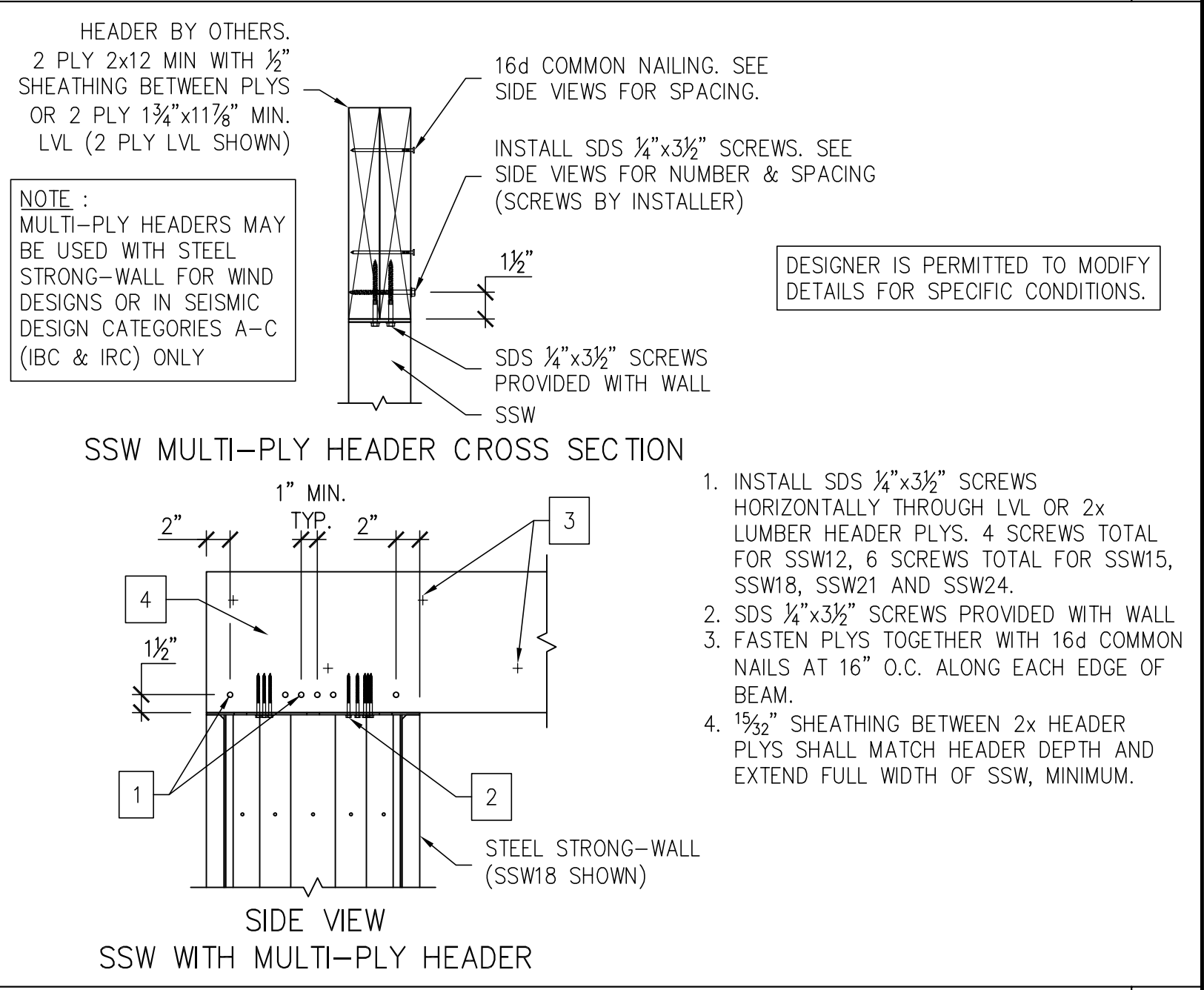
TWO-STORY STACKED FLOOR FRAMING 9



WOOD FIRST-FLOOR WALL CONNECTION KIT



FIRST FLOOR AT WOOD FRAMING 10



MULTI-PLY HEADERS 11

- STEEL STRONG-WALL SHEARWALL IS MANUFACTURED AND TRADEMARKED BY "SIMPSON STRONG-TIE COMPANY, INC." HOME OFFICE: 5956 W. LAS POSITAS BLVD., PLEASANTON, CA 94588 TEL: (800) 999-5099, FAX: (925) 847-1597. "SIMPSON STRONG-TIE COMPANY, INC." IS AN ISO 9001 REGISTERED COMPANY.
- USE OF THIS PRODUCT IS SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING DEPARTMENT.
- THIS PRODUCT IS PART OF THE OVERALL LATERAL FORCE RESISTING SYSTEM OF THE STRUCTURE. DESIGN OF THE BUILDING'S LATERAL FORCE RESISTING SYSTEM, INCLUDING THE LOAD PATH TO TRANSFER LATERAL FORCES FROM THE STRUCTURE TO THE GROUND, IS THE RESPONSIBILITY OF THE SPECIFIER.
- ENGINEER OF RECORD IS PERMITTED TO MODIFY DETAILS FOR SPECIFIC CONDITIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, ELEVATIONS, ETC. PRIOR TO INSTALLATION OF ANY COMPONENTS FOR THE STEEL STRONG-WALL SYSTEM. IF ANY DISCREPANCIES ARE FOUND, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE SPECIFIER FOR CLARIFICATION PRIOR TO CONSTRUCTION.
- INSTALLATION OF PRODUCT SHALL BE DONE IN CONFORMANCE TO THESE DRAWINGS. THE PERFORMANCE OF MODIFIED PRODUCTS OR ALTERED INSTALLATION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE SPECIFIER.
- SIMPSON STRONG-TIE COMPANY, INC. RESERVES THE RIGHT TO CHANGE SPECIFICATIONS, DESIGNS, AND MODELS WITHOUT NOTICE OR LIABILITY FOR SUCH CHANGES.
- ALL HARDWARE CALLED OUT IS SIMPSON STRONG-TIE.

NOTES 12

| NO. | DATE       | REVISIONS          |
|-----|------------|--------------------|
| 1   | 09-21-2009 | 2006 IBC REVISIONS |
| 2   | 04-16-2014 | 2012 IBC REVISIONS |
| 3   | 08-08-2016 | 2015 IBC REVISIONS |
| 4   | 06-18-2020 | 2018 IBC REVISIONS |
| 5   | 03-16-2021 | 2021 IBC REVISIONS |

| WALL WIDTH (IN) | MODEL NO. | CONTENTS   |
|-----------------|-----------|--|
| 12              | SSW12-1KT | EACH KIT CONTAINS:<br>(1) SHEAR TRANSFER PLATE (with #14 SCREWS) |
| 15              | SSW15-1KT | (2) 3/4"x18" or 1"x18" THREADED RODS (ASTM A36)                  |
| 18              | SSW18-1KT | (2) COUPLER NUTS   |
| 21              | SSW21-1KT | (2) HEAVY HEX NUTS   |
| 24              | SSW24-1KT | INSTALLATION INSTRUCTIONS  |

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**STEEL STRONG-WALL**  
 FRAMING DETAILS  
 ENGINEERED DESIGNS

THIS IS NO EQUAL

| NAME | DATE       | SCALE  | CHECKED | SHEET | JOB NO. |
|------|------------|--------|---------|-------|---------|
|      | 03-16-2021 | N.T.S. |         | SSW2  |         |