EDITION w/ AMENDMENTS BY LOCAL JURISDICTIONS. B. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING

WORK AND SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT OR ENGINEER. C. OMISSIONS OR CONFLICT BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK.

D. DO NOT USE SCALED DIMENSIONS; USE WRITTEN DIMENSIONS OR WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.

DETAILS SHOWN SHALL BE INCORPORATED INTO THE PROJECT AT ALL APPROPRIATE LOCATIONS WHETHER SPECIFICALLY CALLED OUT OR NOT.

F. FOR WATERPROOFING, FIREPROOFING, ETC. REFER TO DRAWINGS OTHER THAN STRUCTURAL

G. SEE DRAWINGS OTHER THAN STRUCTURAL FOR: KINDS OF FLOOR FINISH AND THEIR LOCATION, FOR DEPRESSIONS IN FLOOR SLABS, FOR OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MECHANICAL FEATURES, FOR ROADWAY PAVING, WALKS, RAMPS, STAIRS, CURBS, ETC.

H. HOLES AND OPENINGS THROUGH WALLS AND FLOORS FOR DUCTS, PIPING AND VENTILATION SHALL BE CHECKED BY THE CONTRACTOR. WHO SHALL VERIFY SIZES AND LOCATION OF SUCH HOLES OR OPENINGS WITH THE PLUMBING HEATING. VENTILATING AND ELECTRICAL DRAWINGS AND THESE SUB-CONTRACTORS

NO PIPES AND DUCTS SHALL BE PLACED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ARCHITECT

DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED STRUCTURE. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING. THE SUBCONTRACTOR SHALL UNDERTAKE ALL NECESSARY MEASURES TO INSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT, ENGINEER SHALL NOT RELIEVE THE SUBCONTRACTOR OF SUCH RESPONSIBILITY.

K. NOTE THAT SHEET S1 IS A STANDARD COVER SHEET AND AS SUCH, NOT ALL TYP. DETAILS AND OR NOTES APPLY TO EVERY PROJECT.

### II DESIGN CRITERIA

A. APPLICABLE CODE: CALIFORNIA BUILDING CODE 2019 & SFBC 2019.

B. VERTICAL LIVE LOADS: (REDUCIBLE). ROOF: 20 PSF. FLOOR: 40 PSF. HALLWAYS & CORRIDORS: 100 PSF.

C. LATERAL LOADS:

1. WIND: 110 MPH. BASIC WIND SPEED, EXPOSURE: "B" 2. SEISMIC: SITE CLASS 'D' MAPPED SPECTRAL ACCELERATIONS: S<sub>S</sub>= Fa=1.0 Fv=1.5  $S_{DS}=.xxx$   $S_{D1}=.xxx$ BASE SHEAR 'V' = .xx W (ASD)

> SEISMIC DESIGN CATEGORY: D RESPONSE MODIFICATION FACTOR, R=6.5 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE IMPORTANCE FACTOR=1 OCCUPANCY CATEGORY=II

### **III MATERIALS**

A. CONCRETE: 1. REINFORCING STEEL: ASTM A615. GRADE 60. #4 AND SMALLER, GRADE 40.

> 2. CONCRETE: NORMAL WEIGHT U.O.N. WITH COMPRESSIVE STRENGTH OF THE FOLLOWING AT 28 DAYS: FOOTINGS, MAT SLAB & DRILLED PIERS 2500 psi

WALLS. COLUMNS 5000 psi STRUCTURAL SLAB (L.W. P.T. SEE S3.2) 5000 psi

3. MINIMUM CONCRETE COVER FOR REINFORCING STEEL:

a. SURFACE POURED AGAINST GROUND 3" b. FORMED SURFACES BELOW GRADE 2'

c. SURFACES EXPOSED TO WEATHER 2"

d. BEAM BARS (INCLUDING STIRRUPS) 1-1/2" e. ALL OTHER

4. ANCHOR BOLT EPOXY\*: HILTI HIT-RE 500-SD. (ICC ESR-2322) OR SIMPSON SET-XP (ICC ESR-2508)

5. SCREW ANCHORS\*: SIMPSON TITEN HD (ICC ESR-2713)

\* USE COMPRESSED AIR TO BLOW THE DUST OUT OF ANCHOR BOLT HOLES. 6. PNEUMATICALLY PLACED CONCRETE (SHOTCRETE) NOTES

a. ALL CONCRETE WALLS MAY BE SHOTCRETED AT CONTRACTOR'S OPTION. VERIFY COMPATIBILITY OF SHOTCRETE WITH WATE PROOFINGCONTRACTOR

b. ALL SHOTCRETE SHALL CONFORM TO THE REQUIREMENTS OF ACI 506.2 AND CBC SECTION 1924.

c. ALL SHOTCRETE SHALL TEST NOT LESS THAN 4000 PSI AT 28 DAYS.

d. MAXIMUM AGGREGATE SIZE SHALL BE 3/8 INCH. e. LAP ALL REINFORCING BARS 40 DIAMETERS AT SPLICES. SPLICE BARS BY THE NON-CONTACT LAP SPLICE METHOD WITH 2 INCHES CLEAR

BETWEEN BARS. f. ANY REBOUND SHALL BE REMOVED PRIOR TO PLACING OF CONCRETE g. IN-PLACE SHOTCRETE WHICH SHOW SAGS OR SLOUGHS, SEGREGATION. HONEY COMBING, SAND POCKETS OR OTHER OBVIOUS DEFECTS SHALL BE REMOVED AND REPLACED

h. CURE SHOTCRETE BY KEEPING CONTINUOUSLY MOIST FOR A MINIMUM OF 7 DAYS UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER.

i. TEST PANELS: SHOOT ONE TEST PANEL, 18 INCHES SQUARE ,FOR EACH 50 CUBIC YARDS OF SHOTCRETE PLACED, BUT NOT LESS THAN ONE PANEL PER SHIFT. CURE PANELS UNDER SAME CONDITIONS AS THE WORK. TESTING AGENCY SHALL TAKE A MINIMUM OF THREE 2" DIAMETER CORES FROM EACH PANEL. WATER SOAK SPECIMENS 24 HOURS BEFORE TESTING. TEST IN ACCORDANCE WITH UNIFORM BUILDING CODE STANDARD NO. 26-10.

i. A MINIMUM OF THREE 3" DIAMETER CORES SHALL BE TAKEN FROM THE WORK AT LOCATIONS SPECIFIED BY THE STRUCTURAL ENGINEER. THE SPECIAL INSPECTOR SHALL VISUALLY EXAMINE CORES FOR STRUCTURAL SOUNDNESS AND SUBMIT A REPORT TO THE STRUCTURAL ENGINEER AND THE BUILDING INSPECTION DEPARTMENT

k. INSPECTION: PROVIDE CONTINUOUS SPECIAL INSPECTION OF SHOTCRETING OPERATION.

B. CMU: UNITS 1500 PSI, MORTAR (TYPE 'S' ), GROUT 2000 PSI

C. STEEL 1. SHAPES AND PLATES: ASTM A36; TUBES: ASTM A500, GRADE B. 2. MOMENT FRAMES (BEAMS, COLUMNS): ASIM A992 OR A913 (50 ksi) MOMENT FRAMES (PLATES): A572, GRADE 50. 3. METAL STUDS, SEE S1.4, NOTES 4. METAL JOISTS, 50 ksi-

5. BOLTS: ASTM <u>A307</u>, U.O.N. 6. WELDING ELECTRODES: E-70 FOR FULL PEN WELDS USE CHARPY V-NOTCH

WHRE. MIN. 20 ft # @ 0°F METAL DECKING. SËE S1.5

1. FRAMING LUMBER - DOUGLAS FIR LARCH

a. HEADERS, PLATES, JOISTS: NO.1

b. STUDS, BLOCKING: NO.2 c. ALL LUMBER IN CONTACT WITH CONCRETE PRESERVATIVE TREATED DOUGLAS FIR. (NOT CCA-C)

d. POSTS AND BEAMS: NO.1 2. PLYWOOD SHEATHING

a. SHEARWALL PLYWOOD : 1/2 INCH STRUCTURAL I,

C-D EXTERIOR, APA RATED 32/16. b. ROOF SHEATHING: 5/8 INCH STRUCTURAL II,

C-D EXTERIOR APA RATED 32/16 c. FLOOR SHEATHING: 3/4 INCH STRUCTURAL II,

C-D EXTERIOR APA RATED 48/24 3. FRAMING HARDWARE AND JOIST HANGERS AS MANUFACTURED BY SIMPSON STRONGTIE CO. OR APPROVED EQUAL. SIMPSON DESIGNATIONS USED. USE

NAILS PER I.C.C. APPROVAL FOR EACH DEVICE. 4. COMMON NAILS, UNLESS OTHERWISE NOTED. SHORT NAILS MAY BE USED PROVIDED THEY HAVE COMMON CODE SPECIFIED MINIMUM EMBEDMENT. ALL NAILING TO BE PER IBC TABLE NO. 2304.9.1 UNLESS NOTED OTHERWISE.

5. GLU-LAM BEAMS: 24F-V4 (Fb=2400 PSI)

6. PARALLAM & MICROLLAM BEAMS AND TJI'S TO BE FABRICATED BY TRUS JOIST:

PARALLAM BEAMS: 2.2E (Fb=2900PSI) MICROLLAM BEAMS: 2.0E (Fb=2600PSI)

7. FOR MICROLLAMS SEE CODE EVALUATION: ICC-ES ESR-1387 8. FOR TJI JOISTS SEE CODE EVALUATION: ICC-ES ESR-1153

## IV EXPOSURE TO WEATHER:

A. STEEL:

1. ALL EXPOSED MEMBERS SHALL BE COATED WITH A ZINC RICH PRIMER. 2. BOLTS, NUTS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED.

B. WOOD:

1. ALL EXTERIOR TIMBER AND GLU-LAM BEAMS SHALL BE PRESSURE TREATED (BUT NOT CHROMATED COPPER ARSENATE) OR WOOD OF NATURAL RESISTANCE TO DECAY.

2. ALL EXTERIOR HANGERS AND OTHER SIMPSON TYPE PRODUCTS SHALL BE GALVANIZED.

3. ALL PLYWOOD SHALL BE OF AN EXTERIOR GRADE. 4. METAL CONNECTORS IN CONTACT w/ PRESSURE TREATED WOOD

SHALL BE HOT-DIPPED GALVANIZED w/ MIN. ZINC COATING OF G185. 5. ALL NAILS & ANCHOR BOLTS IN CONTACT w/ PRESSURE TREATED

WOOD SHALL BE HOT DIPPED GALVANI7FD.

### V ABBREVIATIONS

B.N. — BOUNDARY NAILING S.A.D. — SEE ARCHITECTURAL DRAWINGS DIA. — DIAMETER E.N. — EDGE NAILING S.O.G. — SLAB-ON-GRADE S.S. — STAINLESS STEEL H.P. — HIGH POINT T.O. — TOP OF L.P. — LOW POINT LVL — LAMINATED VENEER LUMBER TYP. — TYPICAL L.W. — LIGHT WEIGHT U.O.N. — UNLESS OTHERWISE M.L. — MICROLLAM NOTED PLWD — PLYWOOD SHEATHING V.I.F. — VERIFY IN FIELD PSL — PARALLEL STRAND LUMBER W.W.F. — WELDED WIRE FABRIC P.T. — PRESSURE TREATED OR

# **SYMBOLS**

(E) WALL BELOW

POST-TENSIONED

(E) WALL ABOVE (N) CONC. WALL ABOVE CONCRETE TOPPING OVER PLYWOOD

BRICK OR CMU WALL ABOVE WOOD SHEARWALL (BELOW) WOOD JOIST HANGER (HUS TYPE, U.O.N.)

WOOD POST BELOW WOOD POST ABOVE (OR ABOVE & BELOW) HOLDOWN @ WOOD POST

 $\Gamma - \neg$ ## E w/ DROPCAP  $\sqcup$   $\sqcup$ DRILLED CONCRETE PIER

DIAGONAL ABOVE Dagonal Below

H STEEL COLUMN ABOVE H D STEEL COLUMN BELOW ► MOMENT CONNECTION

> CONCRETE TOPPING OVER CORRUGATED METAL DECK CONCRETE COLUMN ABOVE

> CONCRETE COLUMN BELOW

PRECAST, PRESTRESSED CONCRETE PILE

**IMPROVEMENT** PROJECT NAME:

3117-3119 24TH STREET **ADDRESS:** 

BLOCK/LOT: \_\_\_\_

SAN FRANCISCO, CA

DRAWING INDEX:

S1.0 — TITLE SHEET S1.1A-S1.1B — TYPICAL WOOD DETAILS ——— TYPICAL CONCRETE DETAILS FIRST FLOOR FOUNDATION, SECOND FLOOR/ LOWER ROOF PLAN S3 ----- ROOF FRAMING PLAN ——— STRUCTURAL DETAILS

City and County of San Francisco Department of Building Inspection



London N. Breed, Mayor Tom C. Hui, S.E., C.B.O., Director

Attachment A

SLOPE AND SEISMIC HAZARD ZONE PROTECTION CHECKLIST A COPY OF THIS DOCUMENT SHALL BE SUBMITTED WITH THE PERMIT APPLICATION

APPLICATION NO. JOB ADDRESS ADDENDUM NO. OWNER PHONE NO. ( ) OWNER NAME

1: PROPERTY LOCATION 3: PROPOSED CONSTRUCTION ONSTRUCTION OF NEW BUILDING OR YES NO STRUCTURE HAVING OVER 1000 SOFT OF NEW PROJECTED ROOF AREA HORIZONTAL OR VERTICAL ADDITIONS YES NO EARTHQUAKE INDUCED LANDSLIDE AREA ON THE STATE OF CALIFORNIA DEPARTMENT OF HAVING OVER 500 SQFT OF NEW PROJECTED CONSERVATION DIVISION OF MINES AND YES GEOLOGY (CDMG) SEISMIC HAZARD ZONES YES NO MAP FOR SAN FRANCISCO, RELEASED SHORING NOVEMBER 17, 2000. YES NO UNDERPINNING GRADING, INCLUDING EXCAVATION OR FILL, YES NO 2: AVERAGE SLOPE OF PROPERTY OF OVER 50 CUBIC YARDS OF EARTH MATERIAI CONSTRUCTION ACTIVITY LISTED BELOW DETERMINED BY THE BUILDING OFFICIAL PROPERTY EXCEEDING AN AVERAGE SLOPE THAT MAY HAVE A SUBSTANTIAL IMPACT ON OF 4H:1V (25%) GRADE THE SLOPE STABILITY: (APPLICANT WILL NEED TO INCLUDE PLANS RETAINING WALL: ILLUSTRATING SLOPE OF THE PROPERTY IND/OR INCLUDE A SURVEY VERIFYING THE SLOPE OF THE PROPERTY) YES NO OTHERS:

### SECTION 4: LICENSED DESIGN PROFESSIONAL VERIFICATION AND SIGNATURES

Under penalty of perjury, I certify that the information provided on this form is based on my personal review of the building and its records, or review by others acting under my direct supervision, and is correct to the best of my knowledge

Prepared by:	Jefferson Chen	[Architett/hasineer
	Engineer/Architect of Record	ALL ASON JE
(415) 626 - 8300	<u>.                                     </u>	CHEN CO57898
Telephone	Email	Exp

**Technical Services Division** 1660 Mission Street- San Francisco CA 94103 Office (415) 558-6205 - FAX (415) 558-6401 - www.sfdbi.org **INFORMATION SHEET S-19** 

ATTACHMENT A

# **ASSIGNMENT OF REVIEW TIER**

**FOR DBI USE ONLY** 

#### **EXEMPTED: Reports per Section E and Third Party Peer Review Not Required**

If the box in Section 1 "Property Location" **AND** the box in Section 2 "Average Slope of Property" are marked "No" **OR** if all the boxes in Section 3 "Proposed Construction" are marked "No", reports per Section E and Third Party Peer Review are exempted by the SSPA.

#### TIER I: Reports per Section E Required but Third Party Peer Review Not Required

☐ If the box in Section 2 "Average Slope of Property" **AND** any boxes in Section 3 "Proposed Construction" are marked "Yes" AND the property does not lie within any areas of potential landslide hazard, DBI shall require mandatory submittal of reports per Section E only.

#### TIER II: Reports per Section E and Third Party Peer Review Required

If the box in Section 2 "Average Slope of Property" AND any boxes in Section 3 "Proposed Construction" are marked "Yes" AND the property lies within the areas of potential landslide hazard, DBI shall require mandatory submittal of reports per Section E and require the permit application be subject to a third party peer review. At the discretion of the SSPA Review Committee, the peer review may be followed by the establishment of a Structural Advisory Committee (SAC) with the project reassigned to Tier III.

If the DBI Plan Review Engineer (or the SSPA Review Committee, if established), in their discretion, determines from the submitted documents that the project has a substantial impact on the slope stability of the site or creates a potential for earthquake induced landslide hazards. DBI may require that the third party peer review be followed by the establishment of a Structural Advisory Committee (SAC) and re-assigned the project to Tier III.

#### TIER III: Structural Advisory Committee (SAC) Review

If the box in Section 1 "Property Location" AND any boxes in Section 3 "Proposed Construction" are marked "Yes", DBI shall require mandatory submittal of reports per Section E and require the permit application be subject to review by a Structural Advisory Committee (SAC), as defined by SFBC Section 105A.6.

Tier assigned by:	DBI Plan Review Engineer	Phone: (415)
Comment:		_

Page | 2

City and County of San Francisco **Department of Building Inspection** 

Signature



London N. Breed, Mayor Tom C. Hui, S.E., C.B.O., Director

### NOTICE

### SPECIAL INSPECTION REQUIREMENTS

Please note that the Special Inspections shown on the approved plans and checked on the Special Inspections form issued with the permit are required for this project. The employment of special inspectors is the direct responsibility of the owner or the engineer/architect of record acting as the owner's representative.

These special inspections are required in addition to the called inspections performed by the Department of Building Inspection. The name of the special inspector shall be furnished to the district building inspector prior to start of work for which special inspection

For questions regarding the details or extent of required inspection or tests, please call the Plan Checker assigned to this project or 415-558-6132. If there are any field problems regarding special inspection, please call your District Building Inspector or 415-558-6570.

Before final building inspection is scheduled, documentation of special inspection compliance must be submitted to and approved by the Special Inspection Services staff. To avoid delays in this process, the project owner should request final compliance reports from the architect or engineer of record and/or special inspection agency soon after the conclusion of work requiring special inspection. The permit will not be finalized without compliance with the special inspection requirements.

### STRUCTURAL OBSERVATION REQUIREMENTS

Structural observation shall be provided as required per Section 1704.6. The building permit will not be finalized without compliance with the structural observation requirements.

### **Special Inspection Services Contact Information**

Telephone: (415) 558-6132 (415) 558-6474 Fax:

Email: In person: 3<sup>rd</sup> floor at 1660 Mission Street

We are moving towards a "paperless" mode of operation. All special inspection submittals, including final letters, may be emailed (preferred) or faxed. We will also be shifting to a paperless fax receipt mode.

> **Special Inspection Services** 1660 Mission Street - San Francisco CA 94103 Office (415) 558-6132 - FAX (415) 558-6474 - www.sfdbi.org

SPECIAL INSPECTION AND STRUCTURAL OBSERVATION A COPY OF THIS DOCUMENT SHALL BE KEPT WITH THE APPROVED STRUCTURAL DRAWING SET

JOB ADDRESS APPLICATION NO. ADDENDUM NO. OWNER PHONE NO. ( Employment of Special Inspection is the direct responsibility of the OWNER, or the engineer/architect of record acting as the owner's representative. Special inspector shall be one of those as prescribed in Sec.1704. Name of special inspector shall be furnished to DBI District Inspector prior to start of the work for which the Special Inspection is required. Structural observation shall be performed as provided by Section 1704.6. A preconstruction conference is recommended for owner/builder or designer/builder projects, complex and highrise projects, and for projects utilizing

## In accordance with Chapter 17 (SFBC), Special Inspection and/or testing is required for the following work:

. Concrete (Placement & sampling 6. High-strength bolting 2. ☑ Bolts installed in concrete ☐ Structural masonry Reinforced gypsum concrete 3. ☐ Special moment-Resisting concrete frame Insulating concrete fill 4. Reinforcing steel and prestressing tendons ☐ Sprayed-on fireproofing Structural welding: A. Periodic visual inspectio ☐Single pass fillet welds 5/16" or smaller ☐ Special grading, excavation And filling (Geo. Engineered) Welded studs ] Smoke-control system Cold formed studs and joists 1 Demolition Exterior Facing Stair and railing systems Reinforcing steel 3. Continuous visual inspection and NDT

new processes or materials.

shear diaphragms Piling, drilled piers and caissons 20. 🛛 Holdowns 21. Special cases: ☐ Shoring
☐ Underpinning: ☐ Not affecting adjacent property Affecting adjacent property: PA\_\_ 22.  $\square$  Crane safety (Apply to the operation of Tower cranes on highrise building) Retrofit of unreinforced masonry buildings ☐ Testing of mortar quality and shear tests (Section 1705.21)

Inspection of repointing operations All other welding (NDT exception: Fillet weld) Reinforcing steel; and [] NDT required ☐ Concrete construction ☐ Masonry construction ☐ Wood framing

25. Certification is required for: Glu-lam components

23. Others: "As recommended by professional of Installation inspection of new shear bolts re-installation inspection for embedded bolts ull/torque tests per SFBC Sec.1607C & 1615C

26. Firestops in high-rise building Prepared by: JEFFERSON CHEN, P.E. Phone: ( 415 \) 626-3800 Engineer/Architect of Record Required information: Email: jefferson@enertiadesigns.net DBI Engineer or Plan Checker

APPROVAL (Based on submitted reports.) DBI Engineer or Plan Checker / Special Inspection Services Staff

QUESTIONS ABOUT SPECIAL INSPECTION AND STRUCTURAL OBSERVATION SHOULD BE DIRECTED TO: Special Inspection Services (415) 558-6132; or, <a href="mailto:dbi.specialinspections@sfgov.org">dbi.specialinspections@sfgov.org</a>; or FAX (415) 558-6474

Revised 9-22-17

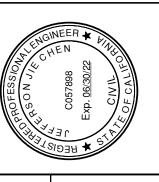
18. Bolts Installed in existing concrete masonry:

19. ☑ Shear walls and floor systems used as

☐ Concrete ☐ Masonry

☐ Pull/torque tests

SIGNS INTERIO ENERTIA ITECTURAL ENGINI



DATE REVISIONS

> NOTES RAWING STRUC<sup>-</sup>

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王 24 0 က် /

04/15/22 AS SHOWN Drawn By A.T

22535

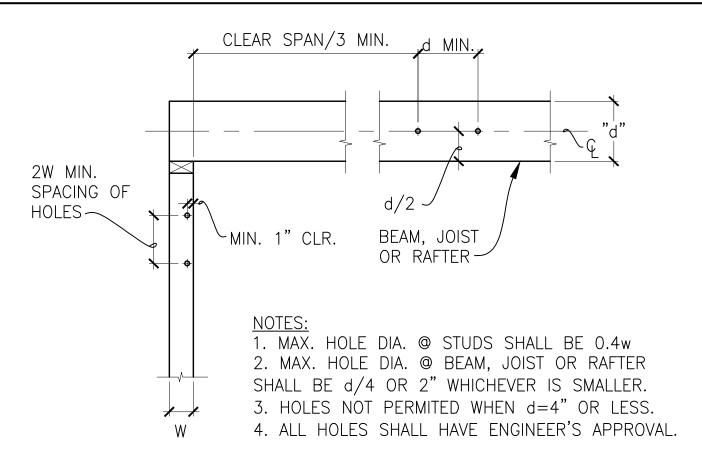
# CBC TABLE 2304.10.1 FASTENING SCHEDULE NOTES

6d<sup>K</sup>

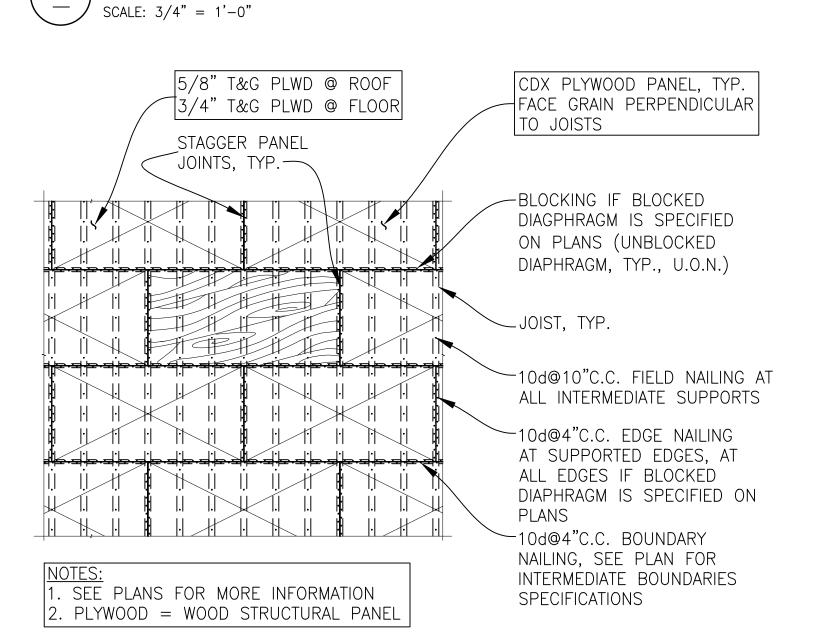
- COMMON OR BOX NAILS ARE PERMITTED TO BE USED EXCEPT WHERE OTHERWISE STATED. NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES AT SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLE BOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR
- CASING. COMMON OR DEFORMED SHANK (6D - 2" X 0.113"; 8D -  $2\frac{1}{2}$ " X 0.131"; 10D - 3" X 0.148").
- COMMON (6D 2" X 0.113"; 8D  $2\frac{1}{2}$ " X 0.131"; 10D 3" X 0.148").
- DEFORMED SHANK (6D 2" X 0.113"; 8D  $2\frac{1}{2}$ " X 0.131"; 10D 3" X 0.148"). CORROSION-RESISTANT SIDING (6D - 1%" X 0.106"; 8D - 2%" X 0.128") OR CASING (6D -
- 2" X 0.099"; 8D 2½" X 0.113") NAIL. G. FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6 INCHES ON CENTER AT INTERMEDIATE SUPPORTS, WHEN USED AS STRUCTURAL SHEATHING. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS.
- H. CORROSION-RESISTANT ROOFING NAILS WITH  $\frac{7}{16}$ -INCH-DIAMETER HEAD AND  $\frac{1}{2}$ -INCH LENGTH FOR ½-INCH SHEATHING AND 1¾-INCH LENGTH FOR 25/32-INCH SHEATHING.
- CORROSION-RESISTANT STAPLES WITH NOMINAL  $\frac{7}{16}$ -INCH CROWN AND  $\frac{1}{8}$ -INCH LENGTH FOR  $\frac{1}{2}$ -INCH SHEATHING AND  $\frac{1}{2}$ -INCH LENGTH FOR  $\frac{25}{32}$ -INCH SHEATHING. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED).
- J. CASING (1½" X 0.080") OR FINISH (1½" X 0.072") NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS
- PANEL SUPPORTS AT 24 INCHES. CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL
- EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS. FOR ROOF SHEATHING APPLICATIONS, 8D NAILS (2½" X 0.113") ARE THE MINIMUM REQUIRED
- FOR WOOD STRUCTURAL PANELS. STAPLES SHALL HAVE A MINIMUM CROWN WIDTH OF 7/6 INCH.

3/8"

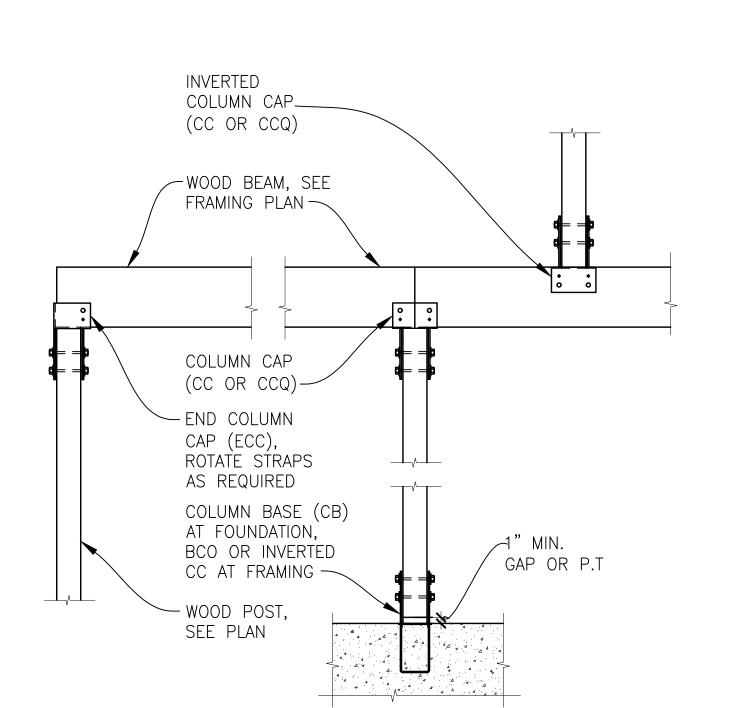
- FOR ROOF SHEATHING APPLICATIONS, FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS
- FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS SUB FLOOR AND WALL SHEATHING AND 3 INCHES ON CENTER AT EDGES, 6 INCHES AT
- INTERMEDIATE SUPPORTS FOR ROOF SHEATHING. P. FASTENERS SPACED 4 INCHES ON CENTER AT EDGES, 8 INCHES AT INTERMEDIATE SUPPORTS.



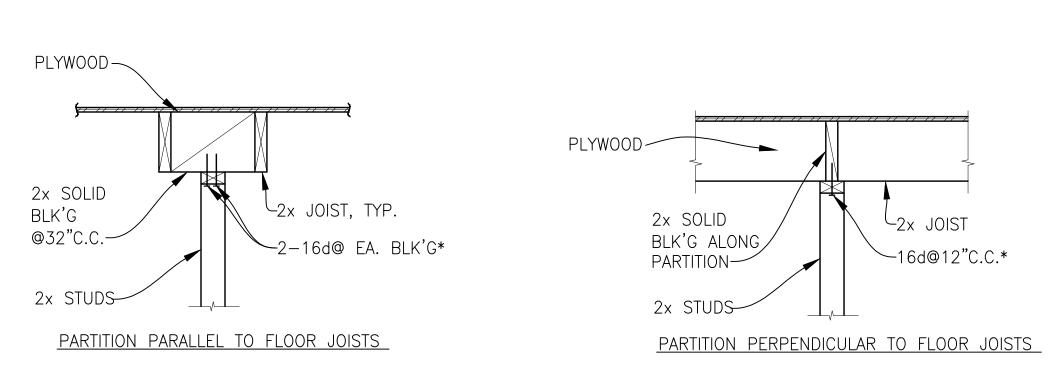
TYPICAL HOLES IN BEAMS, JOISTS, RAFTERS AND STUDS



TYPICAL PLYWOOD DIAPHRAGM SHEATHING (PLAN VIEW) SCALE: 3/4" = 1'-0"



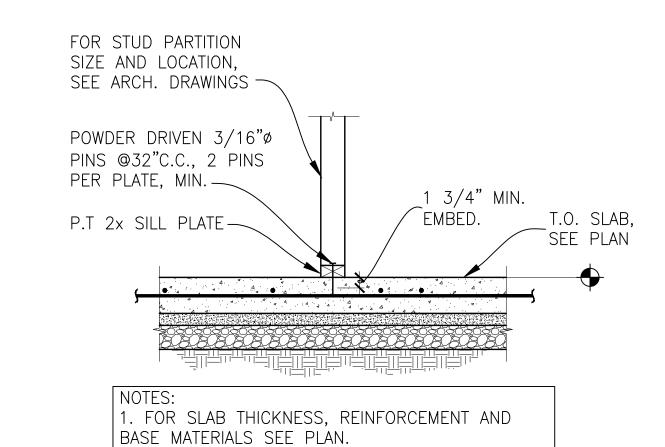
TYPICAL BEAM TO POST CONNECTION SCALE: 3/4" = 1'-0"



\*OPTION: PROVIDE STC CLIP TO ROOF TRUSS OR BEAM

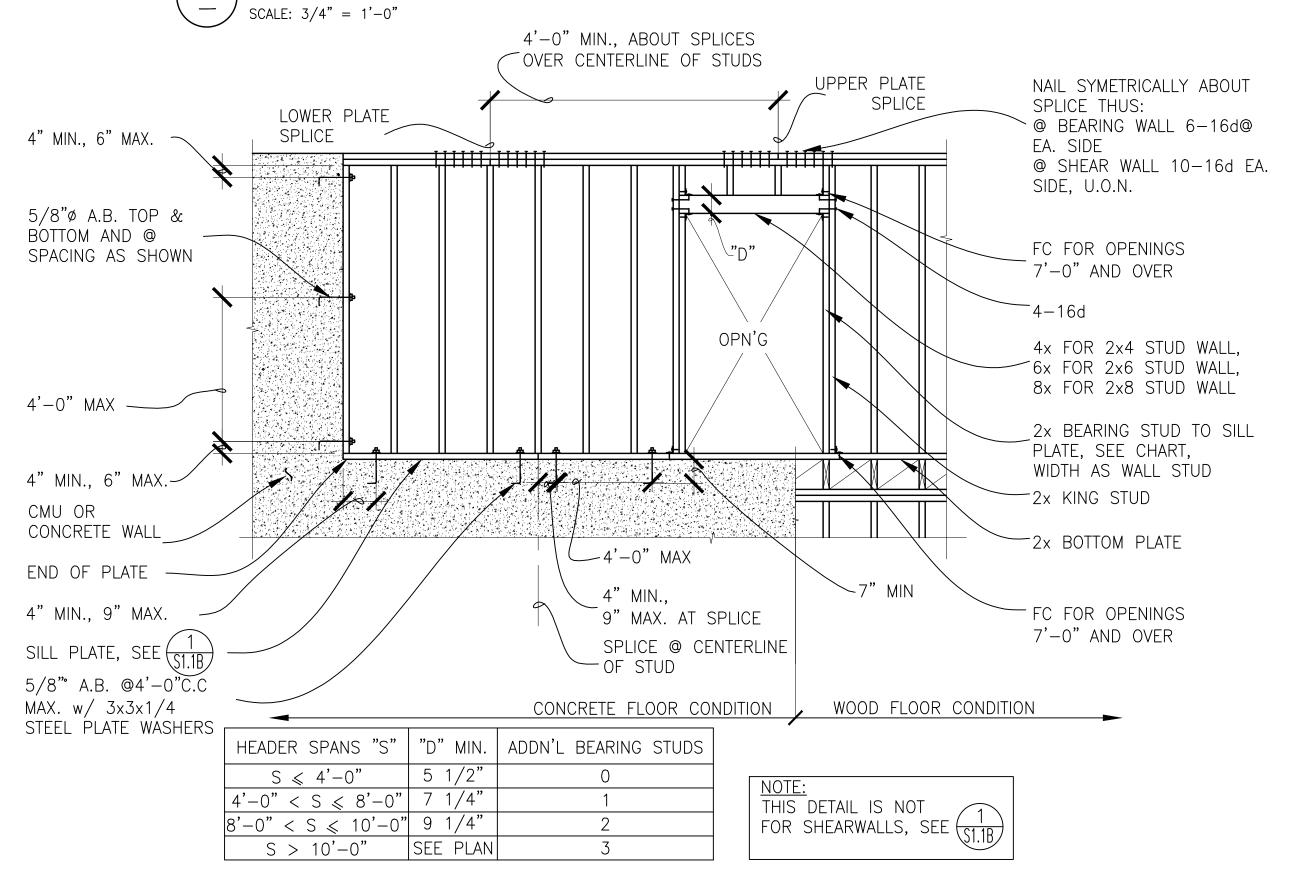
TYPICAL NON-BEARING / NON-SHEARWALL SUPPORT @ ROOF

 $\sim 10^{\circ}$  SCALE: 3/4° = 1'-0"



2. AT P.T. SLAB PROVIDE MAX. 3/4" EMBEDMENT.

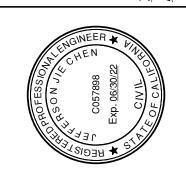
TYPICAL NON-BEARING / NON-SHEARWALL CONNECTION AT CONCRETE SLAB



TYPICAL FRAMING @ OPENINGS, TOP PLATE SPLICES, ETC.

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

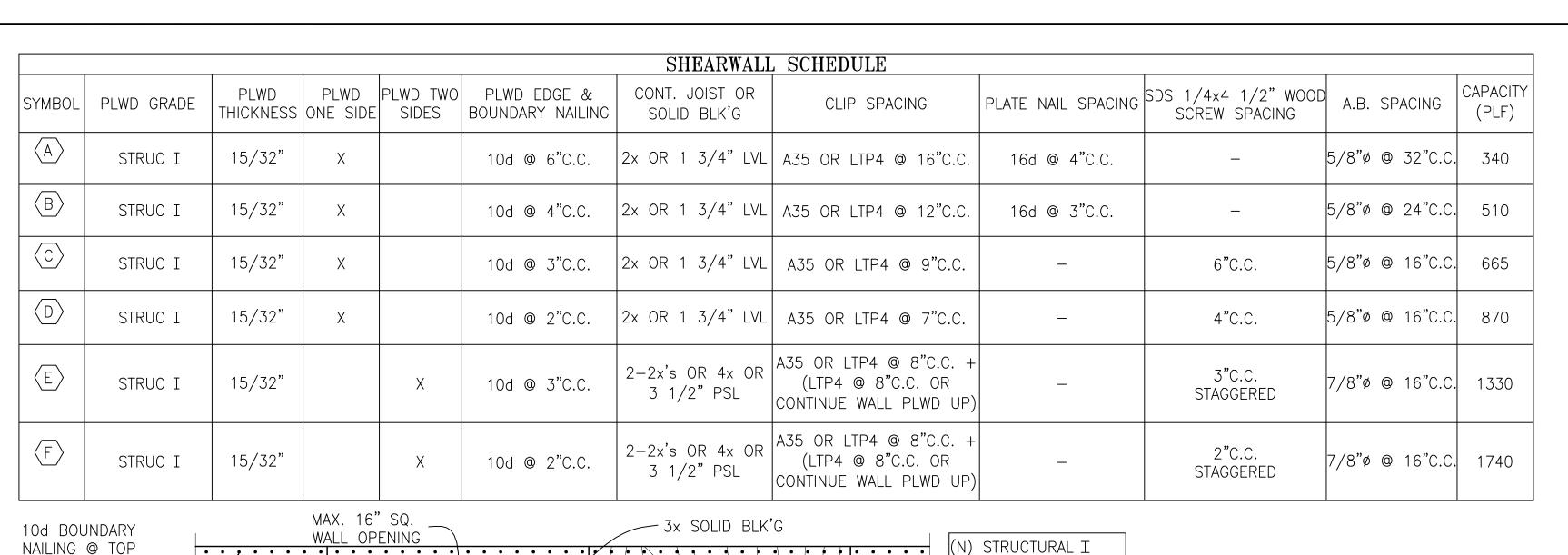
DESIGNS NEERING & INTERIOR ENERTIA I EMAIL: INFO@EN OFFICE: 415.626.8 FAX: 415.701.0212 1167 MISSION STI

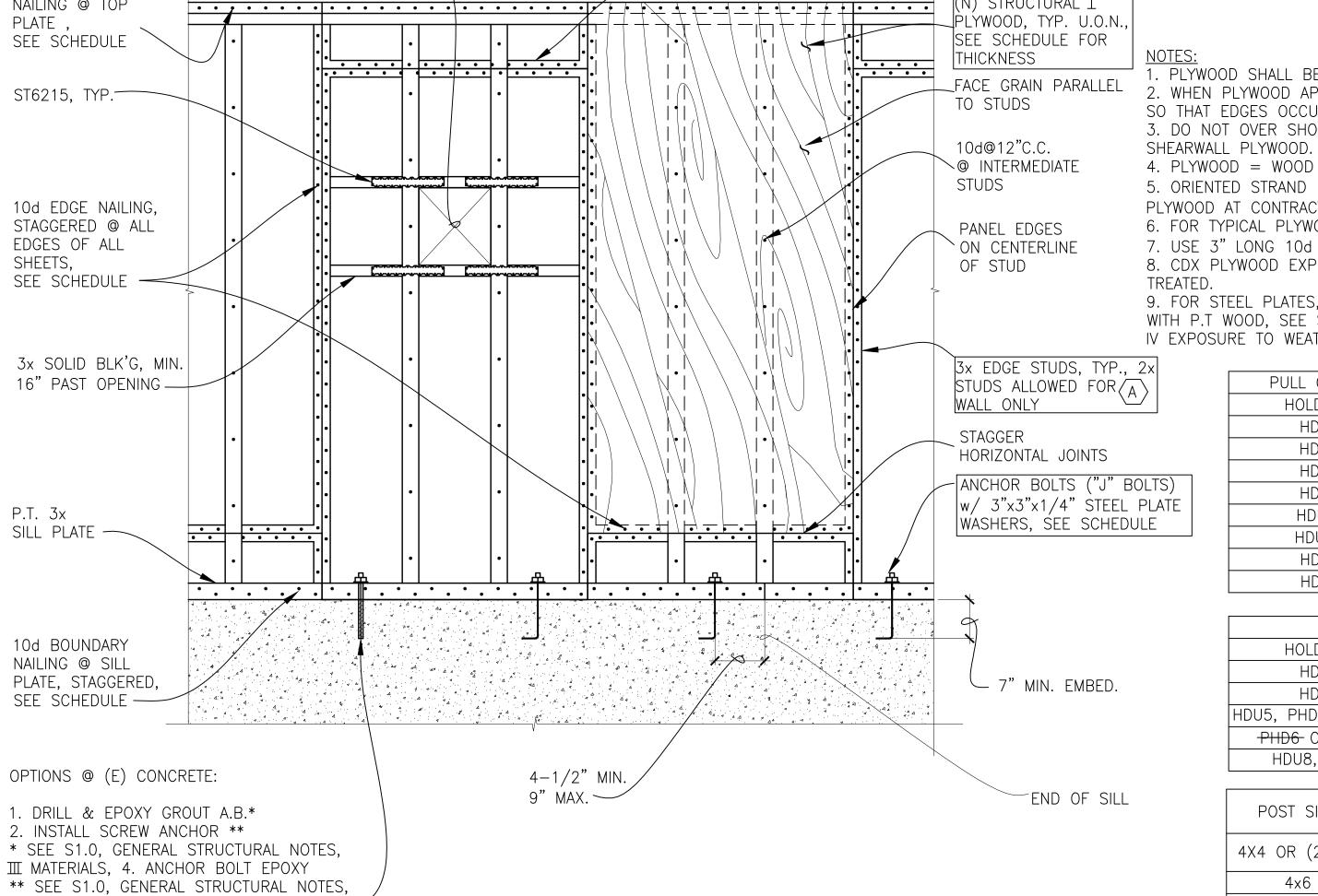


DATE REVISIONS

ROVEMENT M M

04/15/22 AS SHOWN Drawn By A.T 22535





TYPICAL WALL SHEATHING

III MATERIALS, 5. SCREW ANCHORS\_

 $\int SCALE: 3/4" = 1'-0"$ 

TYPICAL PLYWOOD SHEARWALL

	NOTES.
	1. PLYWOOD SHALL BE NAILED DIRECTLY TO FRAMING.
-	2. WHEN PLYWOOD APPLIED TO BOTH FACES, STAGGER SHEETS
	SO THAT EDGES OCCUR AT DIFFERENT STUDS.
	3. DO NOT OVER SHOOT NAILS THROUGH OUTER LAYER OF

4. PLYWOOD = WOOD STRUCTURAL PANEL. 5. ORIENTED STRAND BOARD (OSB) MAY BE USED IN LIEU OF

PLYWOOD AT CONTRACTOR'S OPTION. 6. FOR TYPICAL PLYWOOD SHEARWALL INTERSECTION, SEE ( ) 7. USE 3" LONG 10d NAILS.

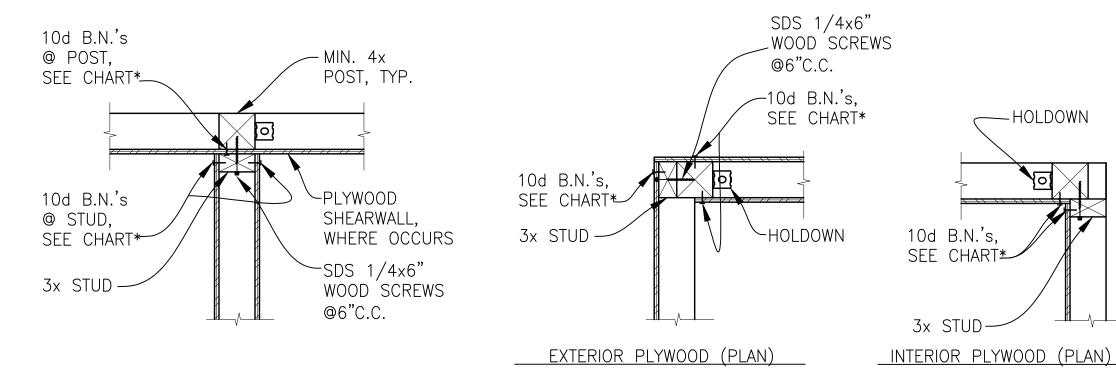
8. CDX PLYWOOD EXPOSED TO EXTERIOR SHALL BE PRESSURE

9. FOR STEEL PLATES, BOLTS, NAILS, SCREWS, ETC. IN CONTACT WITH P.T WOOD, SEE SHEET S1.0, GENERAL STRUCTURAL NOTES, IV EXPOSURE TO WEATHER, B. WOOD

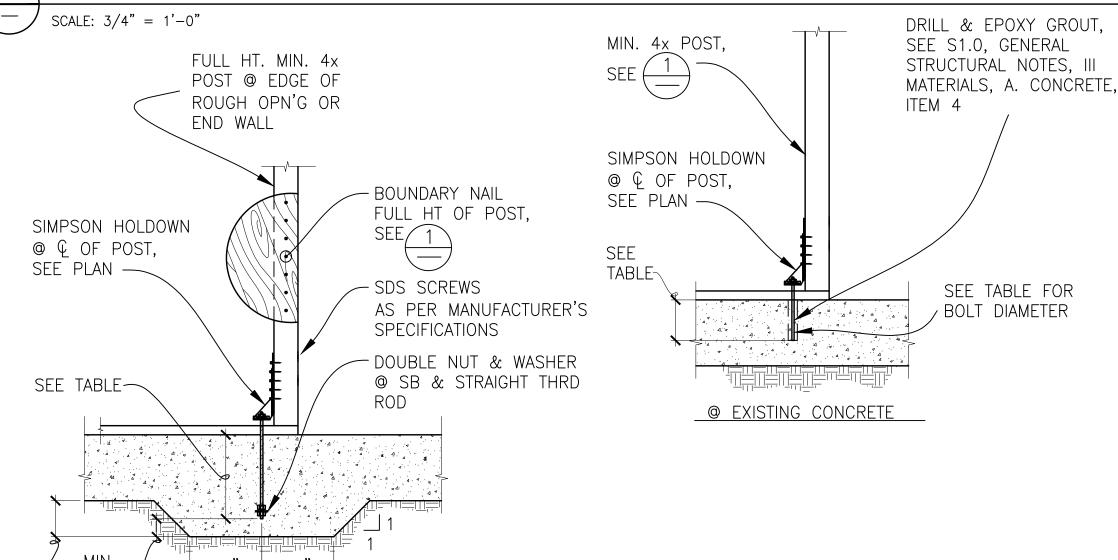
PULL OUT TEST O	N HDU HOLDOWNS
HOLDOWN	PULL OUT VALUE
HDU2	7688 LBS
HDU4	11413 LBS
HDU5	14113 LBS
HDU8	19675 LBS
HDU11	23338 LBS
HDU14	36113 LBS
HD12	28440 LBS
HD19	38140 LBS

STRAP	OPTION	
HOLDOWN	EQUIVALENT STRAP	
HDU2	MST60	
HDU4	MST60 OR 2-MST37's	
HDU5, PHD5 OR HD5A	MST60 OR 2-MST48's	
<del>PHD6</del> OR <del>HD6A</del>	2-MST48's	
HDU8, HDQ8	2-MST60's	

POST SIZE	LARGEST HOLDDOWN FOR A SINGLE HOLDOWN APPLICATION
4X4 OR (2)2X4	HDU2 TO HDU4
4x6	HDU5 TO HDU8 - HDQ8
6×6	HDU11 TO HDU14 HHDQ11 TO HHDQ14







REBAR NOT SHOWN

@ NEW CONCRETE GRADE BEAM

HOLDOWN	ANCHOR DIAMETER	ANCHOR INTO (N) CONC.	MIN. EMBED. INTO (E) CONC.	PLATE @ P.T. SLAB
HDU2 OR HD3B	5/8"	SSTB16	10"	2"x2"x3/8"
HDU4	5/8"	SSTB20	12"	2"x2"x1/2"
HDU5 OR HD5B	5/8"	SSTB24	14"	2"x2"x1/2"
HD7	7/8"	SB 7/8x24	16"	3"x3"x5/8"
HDU8, HDQ8	7/8"	SB 7/8x24	18"	3"x3"x5/8"
HD9B	7/8"	SB 7/8x24	20"	4"x4"x3/4"
HDU11, HHDQ11 OR HD12	1"	SB 1x30	22"	4"x4"x3/4"
HDU14, HHDQ14	1"*	SB 1x30	24"	4"x4"x3/4"
HD19	1 1/4"*	1 1/4"dx30"**	26"	4"x4"x3/4"

-DEEPEN GRADE BEAM AS REQUIRED

TO ACCOMODATE ANCHOR

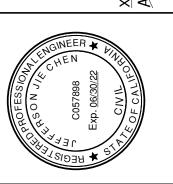
\* PROVIDE HEAVY HEX ANCHOR NUT

\*\* STRAIGHT THREADED ROD w/ DOUBLE NUT AND WASHER

TYPICAL HOLDOWN DETAIL @ CONCRETE FOUNDATION

 $-\int SCALE: 3/4" = 1'-0"$ 

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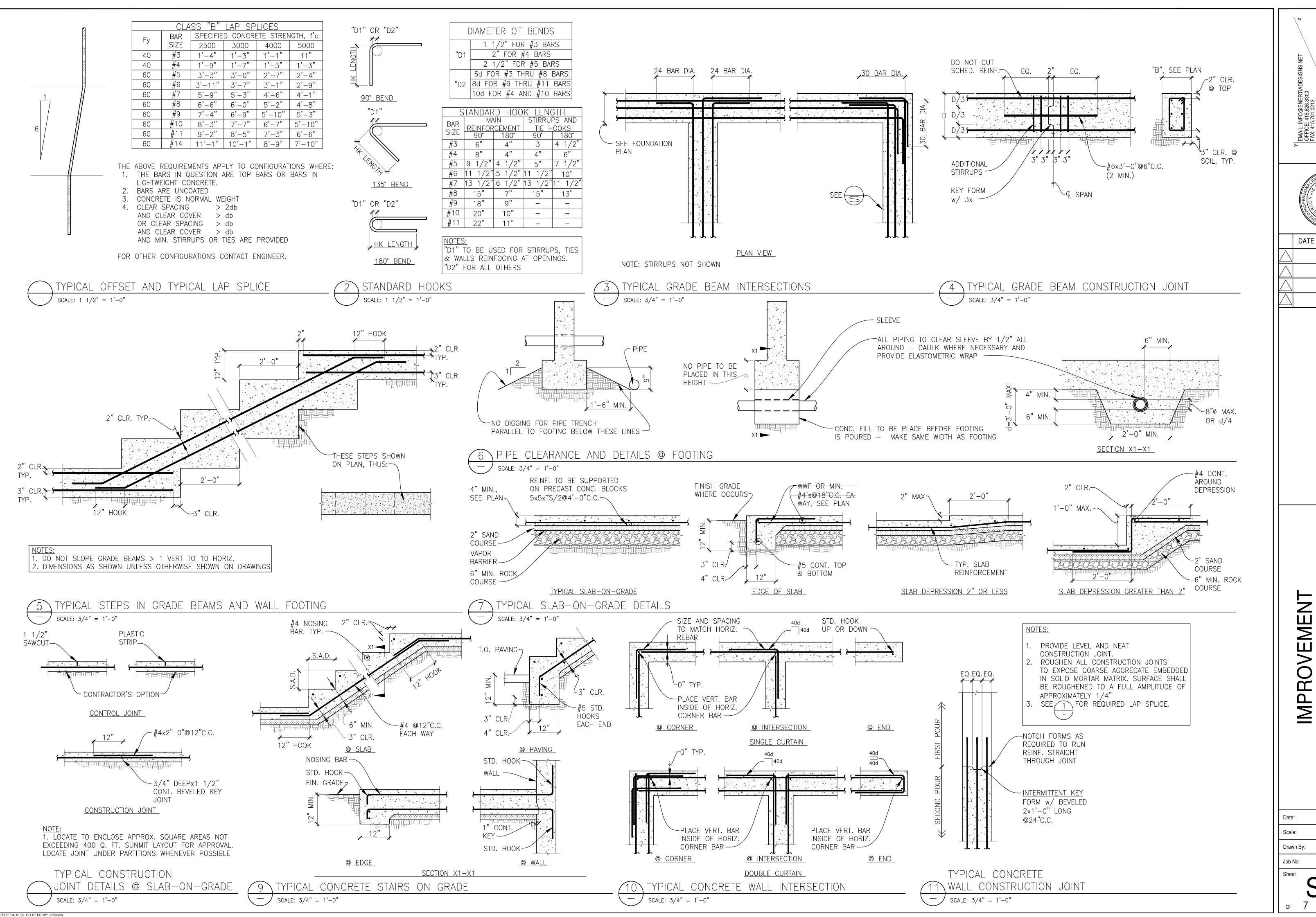
**DETAILS** WOOD

IMPROVEMENT

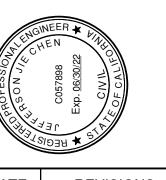
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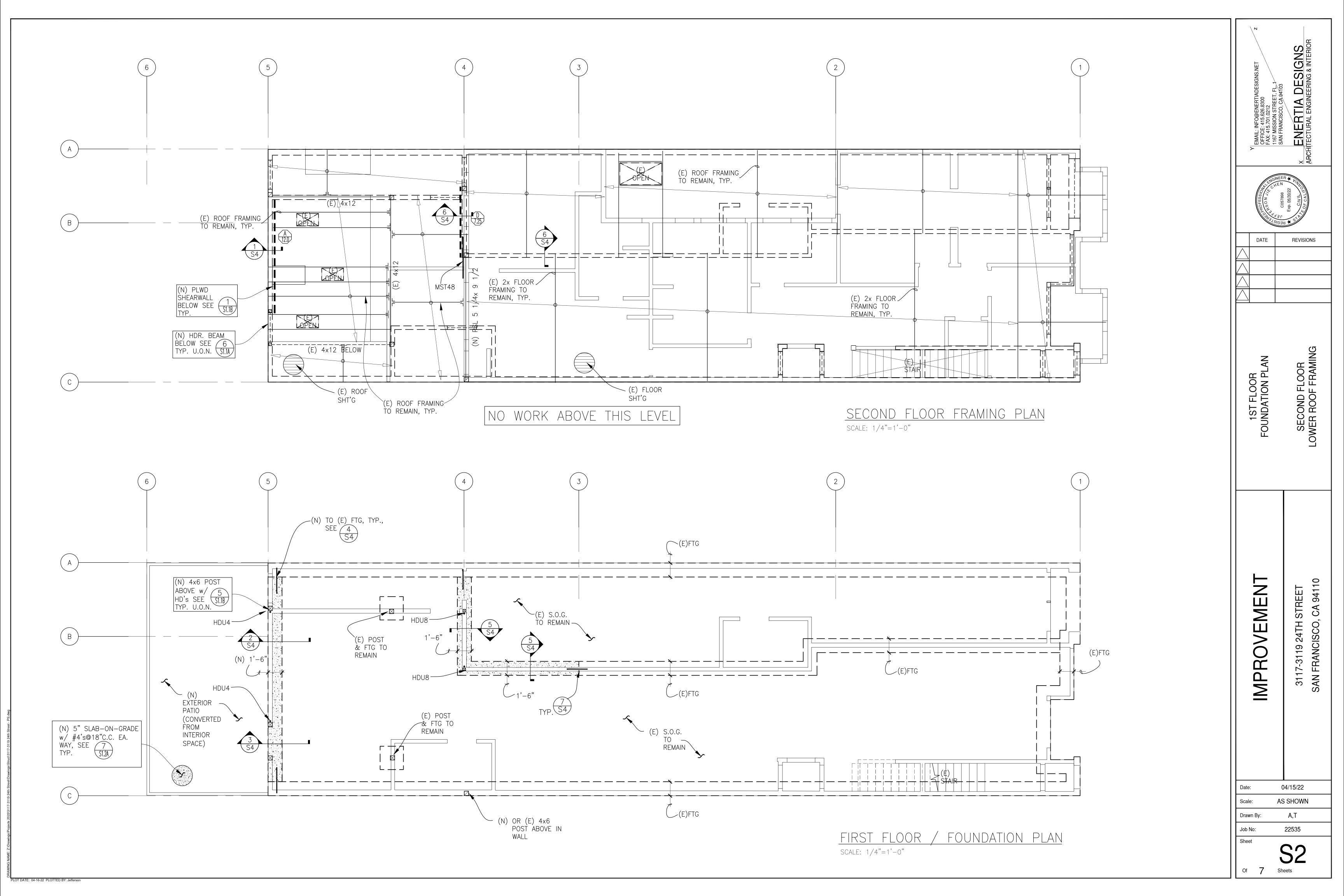


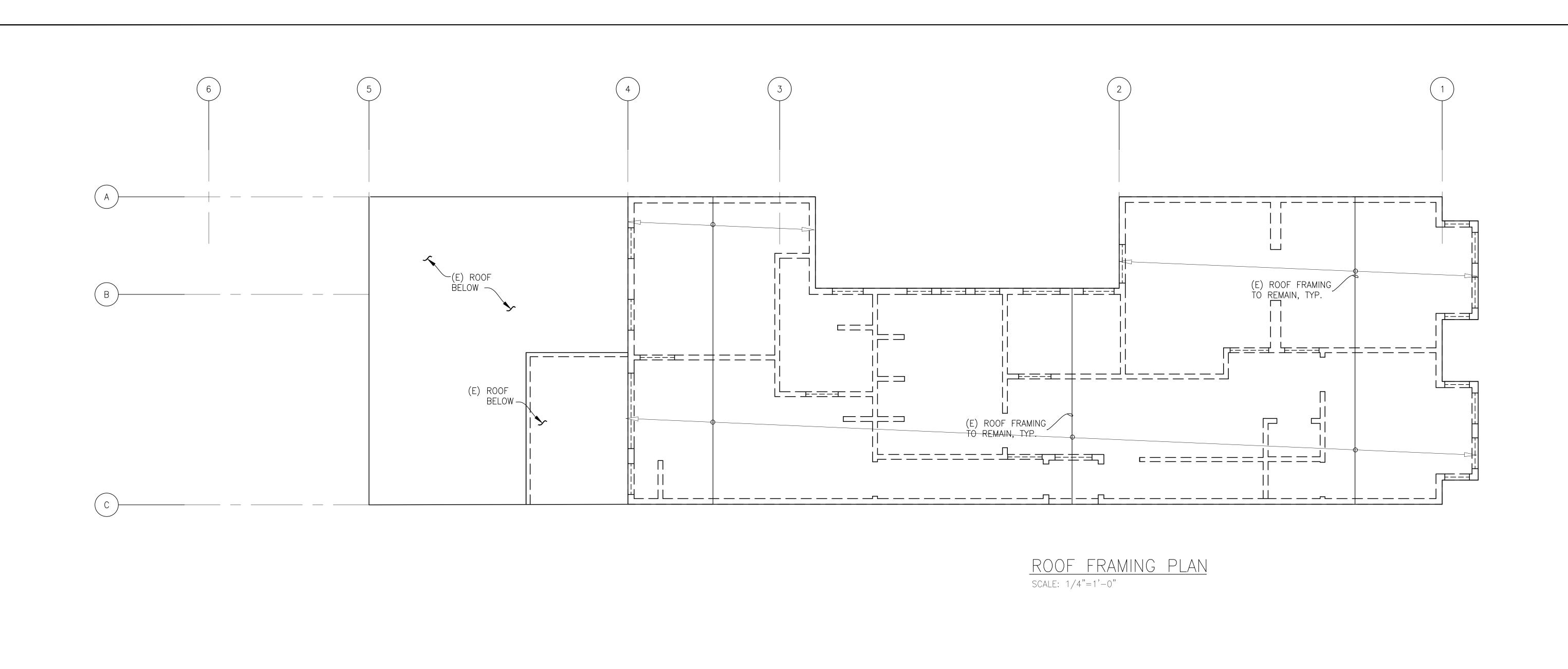
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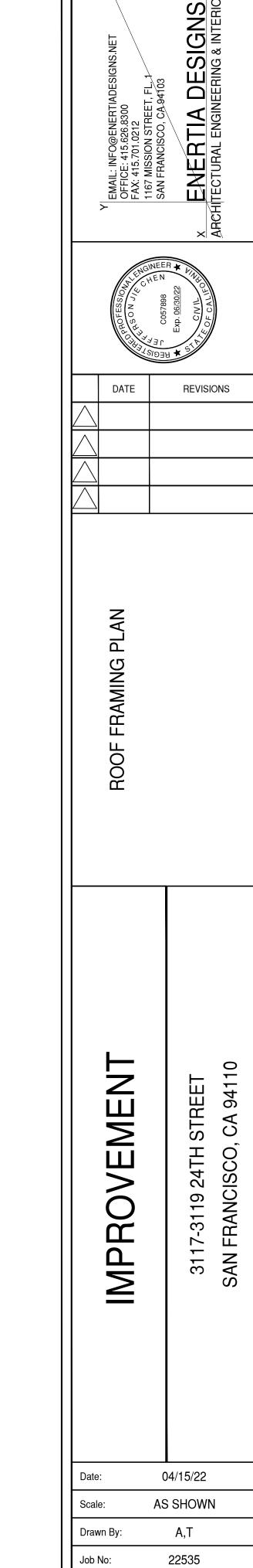
DATE **REVISIONS** 

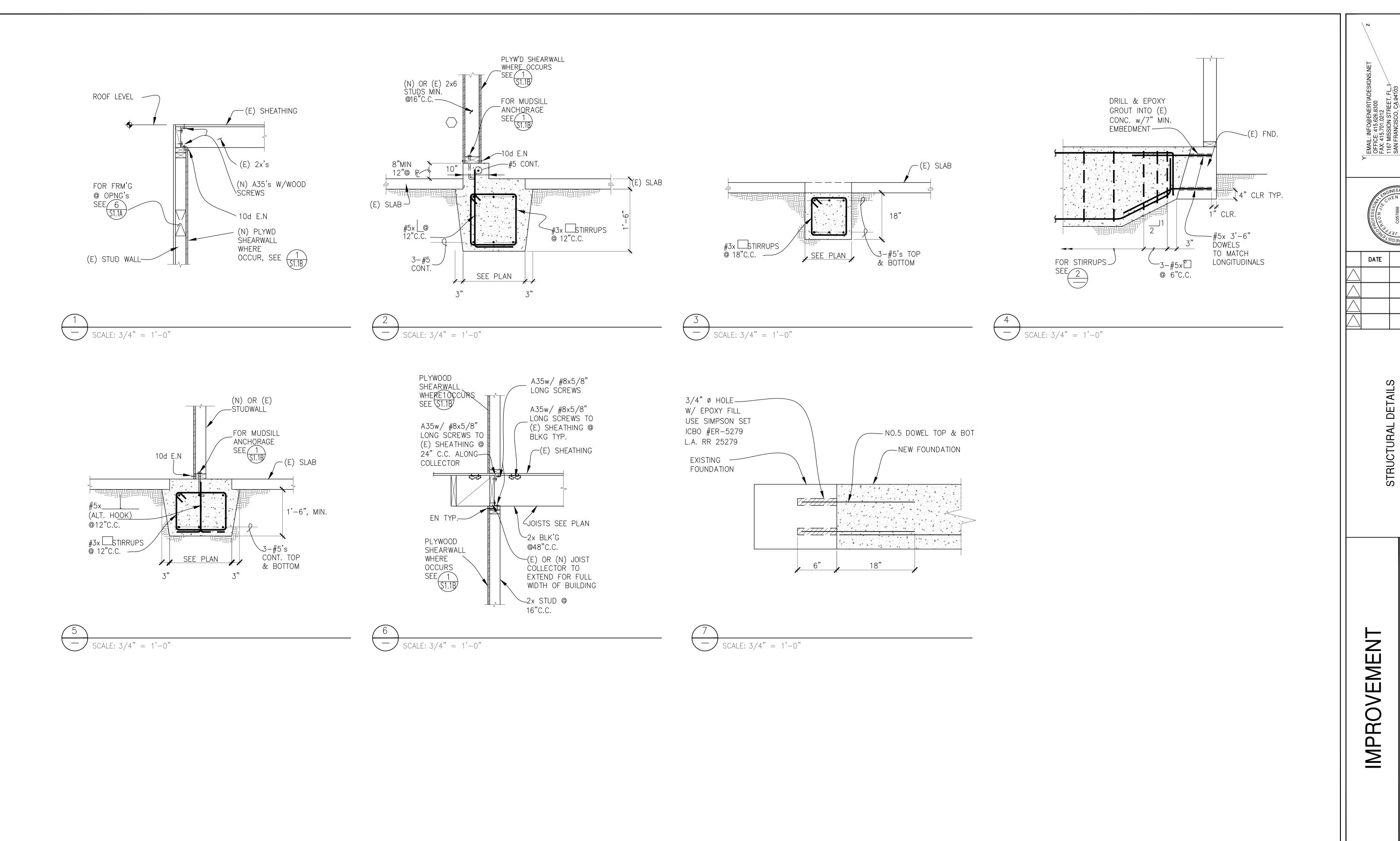
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PLOT DATE: 04-16-22 PLOTTED BY: Jefferson





IMPROVEMENT 3117-3119 24TH STREET SAN FRANCISCO, CA

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