REINFORCING

STEEL

GENERAL

?

ALL CONSTRUCTION AND INSPECTION SHALL CONFORM TO CALIFORNIA BUILDING CODE, 2022 EDITION.

THESE GENERAL NOTES APPLY UNLESS SPECIFICALLY NOTED OTHERWISE.

ALL DETAILS ARE TYPICAL. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN.

VERIFY ALL ARCHITECTURAL FEATURES AND CONDITIONS (DIMENSIONS, ELEVATIONS, ETC.) UPON WHICH THESE DRAWINGS RELY, PARTICULARLY DIMENSIONS AND FLOOR ELEVATIONS.

OMISSIONS OR DISCREPANCIES BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318 LATEST APPROVED EDITION), AND THE "ACI DETAILING MANUAL" AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.

GROUTED ANCHORS SHALL BE SIMPSON FASTENERS.
MANUFACTURED BY SIMPSON-STRONGTIE, INC. THE APPLICABLE ICBO REPORT IS ER-4945 LATEST EDITION. ACCEPTABLE DRILLED-IN CONCRETE OR MASONRY EXPANSION ANCHORS: SIMPSON WEDGE-ALL ANCHOR (ICBO #ER3631)

EA.
EXIST.
OR (E)
E.W.
E.F.

EXISTING EACH WAY EACH FACE AT

DET. DIA. DWG.

DETAIL DIAMETER DRAWING

S.A.D. SIM. SQ. SYMM.

SEE ARCH. DWG. SIMILAR SQUARE SYMMETRICAL

REQ'D.

REQUIRED

OIA For

PLATE STEEL PLATE PRESSURE TREATED

ON CENTER

EACH

COL. CONN. CONT

COLUMN
CONNECTION
CONTINUOUS
CENTER LINE

A.B. ARCH.

ANCHOR BOLT ARCHITECTURAL

<u>ABBREVIATIONS</u>

GA.

GAUGE

STEEL ANGEL

**₹** .₽.

WORK POINT
"I" SHAPED STEEL BEAM
OR COLUMN

WITH WEIGHT

STRUCTU

STEEL

STEEL

USAGE:

V.I.F.

VERIFY IN FIELD

U.O.N. U.R.M.

UNLESS OTHERWISE NOTED UNREINFORCED MASONRY

TYP.

TYPICAL
TUBE STEEL

NO. (N)

NUMBER NOT TO SCALE NEW

MAX. MIN. MISC.

MAXIMUM
MACHINE BOLT
MINIMUM
MISCELLANEOUS

ACCEPTABLE EPOXY DOWEL: COVERT ADHESIVE (ICBO REPORT #4846), SIMPSON STRONG-TIE EPOXY (ICBO REPORT #4945) OR EQUAL SEE MFR SPECIFICATION FOR REQUIREMENT AND EMBED LENGTH.

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1) FILLET WELD LESS THAN 5/16".
2) ANCHOR BOLT INSTALLATION
3) SHEAR WALL NAILING AND HOLDOWN BOLTS
4) WOOD FRAMING
5) STEEL MOMENT FRAME INSTALLATION

GENERAL NOTES

1. ALL NEW EXTERIOR WALLS ARE 2x6 STUDS @ 16"O.C. ALL INTERIOR BEARING WALLS ABOVE 1ST FLOOR ARE 2x6 @ 16"O.C ALL INTERIOR BEARING WALLS BELOW 1ST FLOOR ARE 3x4 OR 2x6@ 16"O.C.

2. PROVIDE 1/2" OSB OVER EXTERIOR WALLS, SEE PLAN WITH 10d NAILS @ 6" O.C. AT ALL EDGES @ 12"O.C. IN FIELD BLOCK ALL EDGES EXCEPT AT SHEAR WALLS.

3. PROVIDE TRIPLE 2x STUDS OR 4x4 POST MIN.
AT ALL BEAM SUPPORTS. POSTS SHOWN ARE BELOW, TYPICAL, U.O.N.

5

NOT ALL POSTS ARE SHOWN, CONTRACTOR SHALL REFER TO ROOF PLAN AND TYPICAL DETAILS TO LOCATE POSTS AS REQUIRED.

XX'-X"
INDICATES SHEAR WALL SEE SCHEDUTOR DETAILS. IF LENGTH IF NOT SPECIFIED SEE PI

DETAILS. IF LENGTH IF NOT SPECIFIED SEE PLAN

6.

SEE ARCHITECTURAL DRAWINGS FOR HEADER LOCATIONS SEE TYPICAL DETAIL FOR HEADER SIZE & SUPPORT.

SPECIAL INSPECTION REQUIRMENT:

 $3\frac{1}{8}$ "x GLB

 $\vdash$ 

4 ×

HU4X

BA1.81

ALL STEEL MEMBERS CONNECTING TO OR SUPPORTING WOOD FRAMING SHALL HAVE 1/2" DIAMETER THREADED STUDS AT 24" ON CENTER TYPICAL U.O.N.

BOLT HOLES FOR MACHINE BOLTS SHALL BE NO MORE THAN 1/16'OVERSIZE, U.O.N. WHERE OVERSIZED HOLE REQUIRED, PROVIDE 5/16"X3"X3" PLATE WASHER WELDED TO THE STRUCTURAL MEMBER.

WELDING ELECTRODE - E70XX, U.O.N.

ALL WELDING TO CONFORM TO A.W.S. AND TO BE PERFORMED CERTIFIED WELDERS.

ALL BUTT WELDS ARE TO BE COMPLETE PENETRATION U.O.N. WELDS TO BE A.I.S.C. MINIMUM SIZES BASED ON THICKNESS JOINED, U.O.N.

ALL FILLET OF MATERIAL

ALL STRUCTURAL STEEL TO BE DETAILED, FABRICATED AND ERECTED ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

ALL ROLLED SHAPES AND PLATES, ASTM A572,Fy:
TUBE: ASTM A500, GRADE B.
BOLTS: ASTM A325 FOR STEEL CONNECTIONS
ASTM A307 FOR WOOD CONNECTIONS
ANCHOR BOLTS: ASTM A307.
ALL MISCELLANEOUS STEEL, ASTM A36, Fy=36 KS

 $5\frac{1}{8}$ "x GLB

GLT5

JOIST OR BEAM SIZE

HANGER TYPE

BEAM/JOIST

HANGER SCHEDULE

ALL JOIST HANGERS AND FRAMING HARDWARE SHALL BE SIMPSON "STRONG—TIE" OR APPROVED EQUAL. WHERE CONNECTION IS NOT DETAILED, PROVIDE APPROPRIATE CONNECTOR PER MANUFACTURER'S RECOMMENDATION. ALL EXISTING JOISTS, BEAMS, AND TRUSS MEMBERS ARE ROUGH SAWN. NOMINAL SIZES SHOWN ON THE DRAWINGS ARE ACTUAL DIMENSIONS.

U.0.N.

ALL NEW EXPOSED WOOD POSTS SHALL BE PRIMER-SEALED AND PAINTED WITH TWO COATS SEMI-GLOSS ACRYLIC ENAMEL, COLOR TO MATCH EXISTING WALLS.

6

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ALL LAG SCREWS SHALL HAVE A CUT THREAD, NOT A ROLLED THREAD. ALL NEW BLOCKING INSTALLED AGAINST EXISTING JOISTS SHALL HAVE SIMPSON A35 ANCHORS EACH END.

<u>1</u>0.

9.

DRILL HOLE FOR THREADED PORTION OF LAG SCREW 75% OF THE SHANK DIAMETER. DRILL HOLE FOR THE SHANK PORTION OF THE SCREW EQUAL TO THE SHANK DIAMETER.

9.

ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.

7. PROVIDE PB POST BASE FOR ALL POST INSTALLED DIRECTLY ON CONCRETE, TYPICAL.

8. PROVIDE 2x PRESSURE TREATED SILL FOR ALL WALL SILL PLEXCEPT AT SHEAR WALLS.

9. ALL INTERIOR WALLS ARE 2x4 STUDS @ 16"O.C.

11. PROVIDE BLOCKING UNDER ALL PARTITION WALLS.

12. PROVIDE STRAP AT WINDOWS SEE 6/S3.1. SEE PLAN

13. HDUX INDICATES HOLDOWN. SEE TYPICAL DETAILS.

14. ALL MEMBER EXPOSED TO THE WEATHER UNPAINTED OR SEALED SHALL DECAY RESISTANT MATERIAL.

FLOOR & WALL SHEATHING:
A. GENERAL: EACH PANEL SHALL BE IDENTIFIED WITH THE GRADE—
TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION AND SHALL
MEET THE REQUIREMENTS OF THE U.S. PRODUCT STANDARD
PS 1. DO NOT USE ANY PLYWOOD PIECE WITH LEAST DIMENSION
OF LESS THAN 2'-0". ROOF 3/4" PLYWOOD CDX. T&G GLUE & NAILED 10d NAILS @ 6"O.C. AT ALL EDGES @ 10"O.
1/2" OR 15/32" PLYWOOD U.O.N.
SHALL BE: APA RATED SHEATHING, CDX,
EXTERIOR, 32/16.
CAN BE SUSTITUTED WITH OSB STRUCT I SHEATHING. 1/2" PLYWOOD CDX. WITH 10d NAILS @ 6"O.C. AT ALL EDGES NAILED W/

© 10"O.C. IN FIELD.

유 FOR SIMPLY SUPPORTED WORK: NEW RE **SIDENCE** 

\$1.1 \$2.1 \$2.2 ET INDEX:

1 GENERAL NOTES

1 FOUNDATION & FL

2 FLOOR & ROOF F FLOOR PL

SCHEDULE SILL PLATE AT WOOD FLOOR NAILING 2-16d@ 16"O.C. FRAMING CLIP AT TOP PLATES A35 @ 24"O.C DESIGN CAPACITY (ASD) 340 PLF FLOOR -

SHEET SCOPE GLUE LAMINATED BEAMS SHALL BE:

ONE FACE

0.C./@12"0.C

32"

0.C

2-SDS<sup>1</sup>/<sub>4</sub>x4<sup>1</sup>/<sub>2</sub>"@8"0.C

A35 @ 12"0.C

4

BOTH FACE

**,**4

0.C./@12"0.C

16"

0.0

2-SDS<sup>1</sup>/<sub>4</sub>×4<sup>1</sup>/<sub>2</sub>"@8"0.C

A35

1020 PLF

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BOTH FACES

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0.C./@12"0.C

12"

0.0

2-SDS<sup>1</sup>/<sub>4</sub>×4<sup>1</sup>/<sub>2</sub>"@8"0.C

8"0.C

BOTH FACES

0.C./@12"0.C

ထ္

0.C

2-SDS<sup>1</sup>/<sub>4</sub>×4<sup>1</sup>/<sub>2</sub>"@8"0.C

A35

8"0.C

1740

몬

AT SHEAR WALL STAGGERED PLY' PROVIDE 5/8"0 S MATCH SPACING

ALL 2,3&4, USE 3x4 STUD AT PLYWOOD EDGES &3x SILL PLATE PLYWOOD AT EACH FACE WHERE PLYWOOD IS AT BOTH FACES "Ø SIMPSON TITEN—HD SCREWS WITH 4" EMBED AT EXISTING MUD ING AS SPECIFIED.

S3.2 S3.3

SECTION SECTION

% %

DETAILS DETAILS

S3.1

SECTION

**DETAILS** 

 $\Diamond$ 

ONE FACE

0.C./@12"0.C

32"

0.C

2-SDS<sup>1</sup>/<sub>4</sub>×4<sup>1</sup>/<sub>2</sub>"@16"0.C

A35 @ 18"0.C

510 PLF

<del>1</del>0.

 $\Diamond$ 

ONE FACE

0.C./@12"0.C

48" O.C

 $\frac{1}{2}$ " OSB SHEATHING

10d NAILS SPACING © EDGES/@FIELD

5/8" A.B. @MUD SILL

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P

MULTIPLE STUDS (STAGGER) 16d @12

BLOCKING BETWEEN STUDSTOENAILS EA. END \_\_\_\_\_ 2-10d
OR END NAILS \_\_\_\_\_ 2-16d

O MINIMUM COVER TO REINFORCING: 3" WHERE CONCRETE IS POURED AGAINST EARTH; 2" WHERE EXPOSED TO EARTH BUT PLACED IN FORMS; 2" WHEN EXPOSED TO WEATHER; 3/4" FOR SLAB ON GRADE; 3/4" WHERE NOT EXPOSED TO EARTH OR WEATHER. PROVIDE FOUNDATION DOWELS TO MATCH SIZE AND SPACING OF WALL REINFORCEMENT. EXTEND DOWELS 40 DIA. MINIMUM INTO WALL AND TERMINATE WITH STANDARD HOOK 3" ABOVE BOTTOM OF FOOTING UNLESS NOTED OTHERWISE. REINFORCEMENT SHALL BE PLACED IN RELATIVE POSITION SHOWN ON THE DRAWINGS. NO SPLICES IN REINFORCING WILL BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS. ALL SPLICES SHALL BE 40 DIA. MINIMUM LAP, STAGGERED UNLESS OTHERWISE NOTED.  $1-1/2^{\prime\prime}$  MINIMUM BETWEEN PARALLEL BARS. REINFORCING BARS SHALL CONFORM TO ASTM A-615, GRADE 60, FOR #4 BARS AND LARGER (GRADE 40 FOR AND SMALLER). MINIMUM NAILING SHALL BE PER SCHEDULE AS SHOWN IN S1.1, OR AS NOTED ON THE PLANS.
USE COMMON NAILS. ALL NAILS FOR PLYWOOD SHALL GALVANIZED PLYWOOD NAILS. BOLTS FASTENING WOOD MEMBERS SHALL BE FITTED WITH MALLEABLE IRON WASHERS AGAINST WOOD AND STANDARD CUT WASHER AGAINST NUT. HOLES FOR BOLTS SHALL BE BORED 1/32" MAXIMUM OVERSIZE. RETIGHTEN ALL BOLTS BEFORE CLOSING IN. ALL BOLTS SHALL BE GALVANIZED. ANY WOOD BLOCKING, LEDGER, OR POST IN CONTACT WITH CONCRETE FOUNDATION, EXTERIOR MASONRY WALL, OR SLAB—ON—GRADE SHALL BE PRESSURE—PRESERVATIVE TREATED. PLYWOOD SHALL CONFORM TO PS1-74 AND STRUCTURAL 1 GRADE CDX MINIMUM GRADE. SHALL BE BLOCKED WITH 2X4 LUMBER WITH PLANS. ALL FRAMING LUMBER SHALL BE GRADE MARKED DOUGLAS FIR IN ACCORDANCE WITH WCLB RULES #16 LATEST EDITION; NO. 2 OR BETTER GRADE. 6. DESIGN LOADS

SEISMIC COEFFICIENT

SEISMIC COEFFICIENT

SEISMIC COEFFICIENT

SITE CLASS D SEISMIC DESIGN CATEGORY D OCCUPENCY CATEGORY II

WIND LOAD

BASIC WIND SPEED 95 MPH EXPOSURE B

ROOF LOAD

DEAD LOAD = 17.5 PSF, LIVE LOAD = 20 PSF

FLOOR LOAD

DEAD LOAD=21.5 PSF LIVE LOAD = 40 PSF

DECK LOAD

DEAD LOAD=7.0 PSF LIVE LOAD = 60 PSF

FOUNDATION DESIGN IS BASED ON CBC SECTION 1810.3.3.1.1.4 & 1806.2

ALLOWABLE SHAFT RESISTANT=1/6 OF ALLOWABLE VALUE IN TABLE 1806.2

ALLOWABLE FRICTION =1500/6=250 PSF.

5 SCHEDULING OF WORK MAY REQUIRE DESIGN STRENGTH IN SHORTER PERIODS OF TIME (LESS THAN 28 DAYS). THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE STRUCTURAL ENGINEER. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED BY SANDBLASTING OR MECHANICAL MEANS, CLEAN, AND APPROVED FOR LOCATION BY THE STRUCTURAL ENGINEER. ALL CONCRETE SHALL BE NORMAL WEIGHT AND HAVE THE FOLLOWING 28-DAY STRENGTH (MINIMUM f'c): 4000 4" SLUMP MAX. ALL CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH ACI— 318. USE MIXES WITH MAXIMUM AGGREGATE SIZE APPROPRIATE FOR FORM AND REBAR CLEARANCES TO BE ENCOUNTERED (SEE A.C.I.). USE 1" AGGREGATE FOR ALL FLATWORK.

ALL CONCRETE TO BE REINFORCED UNLESS SPECIFICALLY NOTED "NOT REINFORCED". ORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE OR II, LOW ALKALI.

AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.

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THIS NAILING IS TYPICAL UNLESS NOTED OR DETAILED OTHERWISE ALL NAILS SHALL BE COMMON WIRE NAILS.

BLOCKING BETWEEN JOISTS
OR RAFTERS—TOENAILS
EA. SIDE EA. END \_\_\_\_\_\_\_2OR END NAILS \_\_\_\_\_\_\_2-DOUBLE TOP PLATE-LOWER PL. TO TOP OF STUD\_\_\_\_\_\_ SOLE PL. TO JOIST OR BLOCKING......16d @16" \_2-16d GENERAL NOTES 6-30-23

STUD TO BEARING-TOENAILS EA. SIDE \_\_\_\_\_2-10d

JOISTS OR RAFTERS AT ALL BEARING—TOENAILS EA. SIDE 2—10d

BLOCKING BETWEEN JOISTS OR RAFTERS TO JOISTS OR RAFTERS AT BEARINGS—TOENAILS EA. SIDE \_\_\_\_\_\_\_2—10d

N. DON

Lawrence Liao Structural Engineer

NEW RESIDENCE 25 Visitation Brisban,CA

PERMIT SUBMITTAL June 30, 2023

MICHELUCCI FOR THE NE SPREAD FOOT ALLOWABLE B

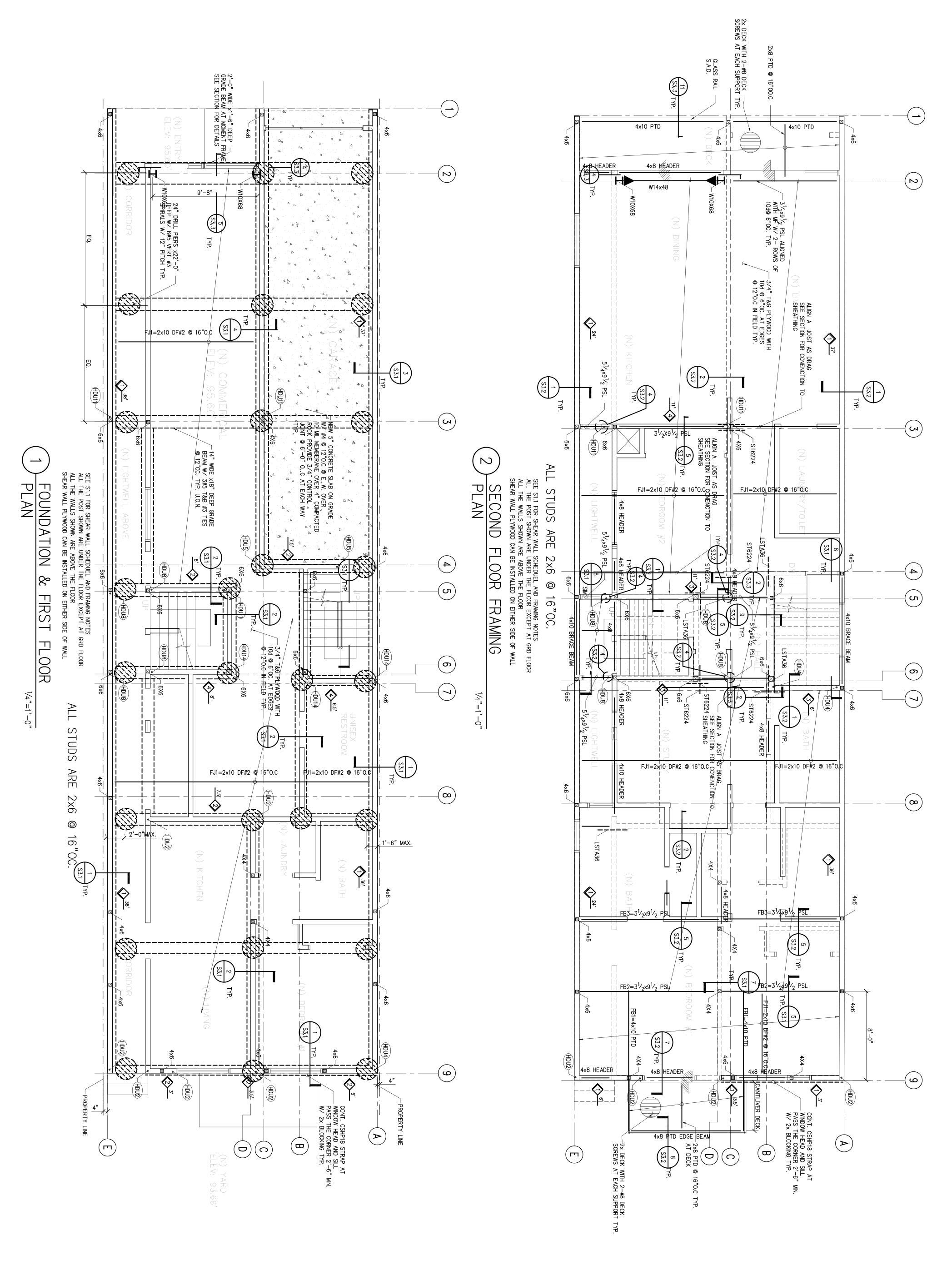
DECK LOAD

BUILT-UP BMS. (STAGGER TYP.)
10" OR LESS IN DEPTH
16d @12" MORE THAN 10" DEEP
1/2" BOLTS @24"

CLG. JOISTS TO PARALLEL 3-16d

UPPER PL. TO LOWER AT INTERSECTIONS \_\_\_\_\_\_

.3-16d



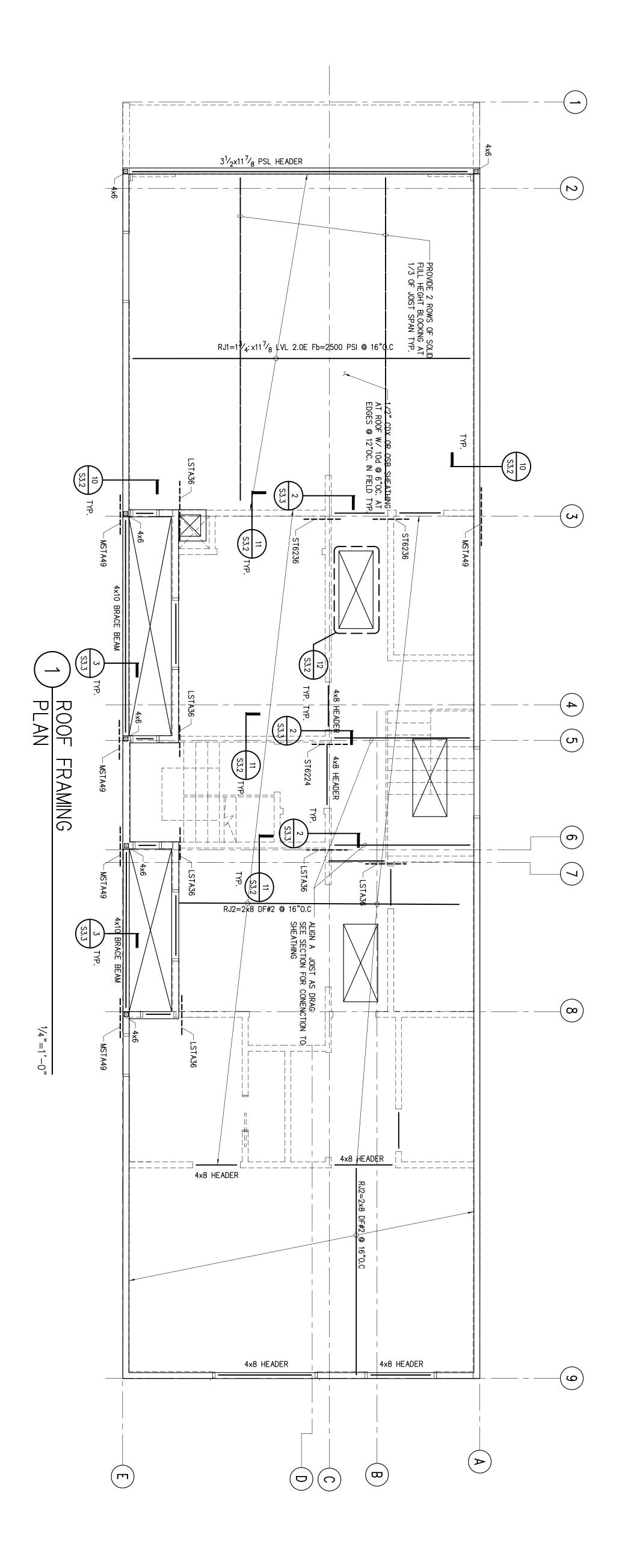
Revisions

PERMIT SUBMITTAL

June 30, 2023

FOUNDATION & FLOOR FRAMING PLANS

Date
6-30-23
Scale
as shown



ROOF FRAMING PLAN

