

May 31, 2017

Addendum #01

General Contractor Services

for The Lathrop House Relocation Project

To All Respondents,

Please carefully review the structural drawings below and incorporate the information into your proposal that is due to the San Mateo County Project Development Unit on **June 27, 2017 at 2:30pm**. Respondents submitting proposals that do not reflect the information provided below may be deemed non-responsive and not accepted by the County.

Note that the footing embedment has been increased to 42 inches instead of the 30 inches that was noted in the superseded structural drawings. Thanks



STRUCTURAL SPECIFICATIONS

SHEATHING

ALL SHEATHING SHALL CONFORM TO U.S. PRODUCT STANDARD PS 1, AMERICAN PLYWOOD ASSOCIATION. EACH SHEET SHALL BE STAMPED WITH THE PS AND/OR APA GRADEMARK.

WALL SHEATHING

- SHALL BE MINIMUM 1/2" OSB OR 3 PLY INTERIOR TYPE RATED SHEATHING, C-D GRADE WITH EXTERIOR GLUE (CDX-EXPOSURE 1), SPAN RATING 24/0, SPECIES GROUP 2 OR BETTER.

ALL SHEATHING PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR TYPE SHEATHING VS. INTERIOR TYPE SHEATHING AS REFERENCED ABOVE.

ALL UNBLOCKED SHEATHING EDGES SHALL BE TONGUE-AND-GROOVE OR SUPPORTED WITH CLEATS OR CLIPS.

FRAMING

DOUGLAS FIR COAST REGION, CONFORMING TO WEST COAST LUMBER INSPECTION BUREAU STANDARD GRADING AND DRESSING RULE NO. 17 AS AMENDED TO DATE.

- 2x, 3x, PLATES, JOISTS, AND PURLINS NO.2 (900F-b), PARA. 123-a.
- 4x, PURLINS, LEDGERS, AND BEAMS, NO.1 (1000F-b), PARA. 123-b.
- 6x BEAMS, DENSE NO.1 (1550F-b), PARA. 130-bb.
- 4x4 POSTS, NO.1 (1500F-c), PARA. 124-b.
- 4x6 POSTS, NO.1 (1500F-c), PARA. 123-b.
- 6x6 AND LARGER POSTS, DENSE NO.1 (1200F-c), PARA. 131-bb.
- 2x4, 3x4, STUDS BLOCKING, CONSTRUCTION GRADE, (1000F-b), PARA. 122-b.
- 2x6 OR LARGER STUDS AND BLOCKING NO.1 (1000F-b), PARA. 123-b.
- FOUNDATION PLATES: SBX/DOT OR ZINC BORATE PRESSURE TREATED DOUGLAS FIR.

ALL FRAMING LUMBER 6" OR LARGER IN THE LEAST DIMENSION SHALL BE F.O.H.C.

LIGHT GAGE METAL CONNECTORS

ALL LIGHT GAGE METAL CONNECTORS SHALL BE SIMPSON COMPANY STRONG TIE CONNECTORS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

CONCRETE

ALL CONCRETE SHALL HAVE PROPERTIES AS LISTED BELOW.
MAXIMUM WATER-CEMENT RATIO, BY WEIGHT SHALL BE AS FOLLOWS:

	W/O FLY ASH	W/ UP TO 15% FLY ASH
5000 PSI CONCRETE AT 28 DAYS	.48	0.43
4000 PSI CONCRETE AT 28 DAYS	.55	0.5
3500 PSI CONCRETE AT 28 DAYS	.55	0.5
3000 PSI CONCRETE AT 28 DAYS	.55	0.5
2500 PSI CONCRETE AT 28 DAYS	.55	0.5
2000 PSI CONCRETE AT 28 DAYS	.67	0.60

APPROXIMATELY 3 OUNCES PER SACK OF CEMENT OF POZZOLITH 300R OR APPROVED EQUAL SHALL BE USED AS A WATER DISPERSING ADDITIVE. AT CONTRACTOR'S OPTION, AN AIR ENTRAINING AGENT CONFORMING TO THE LATEST REVISION OF ASTM SPECIFICATION C 260 MAY BE ADDED TO THE CONCRETE TO PROVIDE SPECIFIED AMOUNTS OF ENTRAINED AIR.

CONCRETE ELEMENT	MIN. 28 DAY COMPRESSIVE STRENGTH	MAX. SIZE AGGREGATE (INCHES)	MAX. SLUMP	TOTAL AIR CONTENT
FOUNDATION	*3000	3/4	4	--%
SLAB ON GRADE	*3000	3/4	4	4%±1.5%
YARD CONCRETE, WALKS, AND CURBS	2000	3/4	4	--

*2500 PSI USED FOR DESIGN, NO SPECIAL INSPECTION REQUIRED

REINFORCING STEEL

BARs FOR REINFORCING SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A-615 INCLUDING SUPPLEMENT S1. LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE ON THE PLANS.

MACHINE BOLTS, ANCHOR BOLTS AND STUDS

ASTM A307

EARTHWORK

EARTHWORK SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE FOUNDATION INVESTIGATION BY KLEINFELDER DATED OCTOBER 3, 2017 (ADDENDUM).

SHOP DRAWINGS

FOR THE ENGINEER'S REVIEW WILL BE REQUIRED AS FOLLOWS:

- MIX DESIGNS;
- REINFORCING STEEL

CONTRACTOR SHALL SUBMIT THREE SETS OF PRINTS FOR REVIEW. FABRICATION SHALL NOT PROCEED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER.

CONSTRUCTION LIABILITY

CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS AGREE THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR AND HIS SUBCONTRACTORS FURTHER AGREE TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

EXISTING CONDITIONS

THE CONTRACTOR OR SUBCONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION AND OR ORDERING MATERIAL, ANY DISCREPANCIES DISCOVERED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

NAILING SCHEDULE	
NAILED CONNECTION DESCRIPTION	MINIMUM REQUIRED NAILING (UNLESS DETAILED OTHERWISE)
JOIST TO SILL PLATE OR GIRDER	(3)-8d TOE NAILS
BRIDGING TO JOIST	(2)-8d TOE NAILS EACH END
1"x 6" SUB-FLOOR OR LESS	(2)-8d FACE NAILS EACH JOIST
WIDER THAN 1"x 6" SUB-FLOOR	(3)-8d FACE NAILS EACH JOIST
2" SUB-FLOOR TO JOIST OR GIRDER	(2)-16d BLIND & FACE NAIL
SOLE PLATE TO JOIST OR GIRDER	16d @ 16" O.C. FACE NAIL, (3)-16d EVERY 16" O.C. AT BRACED WALL PANELS
TOP PLATE TO STUD	(2)-16d END NAIL
STUD TO SILL PLATE	(4)-8d TOE NAIL, OR (2)-16d TOE NAILS (2)-16d END NAIL AT 2x SILL OR (2)-20d END NAIL AT ALL 3x SILL
DOUBLE STUDS	16d FACE NAILS @ 24" O.C.
DOUBLE TOP PLATES	16d FACE NAILS @ 16" O.C., (8)-16d AT LAPS
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	(3)-8d TOE NAILS
RIM JOIST OR BLOCKING TO TOP PLATE OR SILL PLATE	8d TOE NAILS @ 6" O.C.
TOP PLATE AT LAPS AND INTERSECTIONS	(2)-16d FACE NAILS
CONTINUOUS HEADER, TWO PIECES (ALONG EACH EDGE) w/ 1/2" SPACER	16d @ 16" O.C.
CEILING JOIST (CJ) TO PLATE	(3)-8d TOE NAILS
CONTINUOUS HEADER TO STUD	(4)-8d TOE NAILS
CEILING JOIST (CJ) LAPPED OVER PARTITIONS	(3)-16d FACE NAILS
CEILING JOIST (CJ) PARALLEL TO RAFTERS	(3)-16d FACE NAILS
RAFTER OR ROOF TRUSS TO PLATE	(3)-10d TOE NAILS, (2)-10d TOE NAILS ON ONE SIDE AND (1)-10d TOE NAIL ON OPPOSITE SIDE OF EACH RAFTER OR TRUSS
1" DIAGONAL BRACE TO EACH STUD & PLATE	(3)-8d FACE NAILS
1"x 6" SHEATHING OR LESS TO EACH BEARING	(3)-8d FACE NAILS
1"x 8" SHEATHING OR LESS TO EACH BEARING	(3)-8d FACE NAILS
WIDER THAN 1"x 8" SHEATHING TO EACH BEARING	(3)-8d FACE NAILS
BUILT-UP CORNER STUDS	16d FACE NAILS @ 12" O.C.
BUILT-UP GIRDERS AND BEAMS	20d @ 32" O.C. FACE NAILS TOP & BOTTOM, STAGGERED w/ (2)-20d AT EACH END & SPLICES
2" PLANKS, EACH END AND EACH BEARING	(2)-16d
COLLAR TIE TO RAFTER	(3)-10d FACE NAILS
ROOF RAFTER TO HIP OR VALLEY RAFTER	(4)-16d TOE NAILS OR (3)-16d FACE NAILS
ROOF RAFTER TO 2x RIDGE BEAM	(4)-16d TOE NAILS OR (3)-16d FACE NAILS
JOISTS TO RIM JOIST	(3)-16d FACE NAILS
2x LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	(3)-16d FACE NAILS AT EACH JOIST OR RAFTER

NOTES:

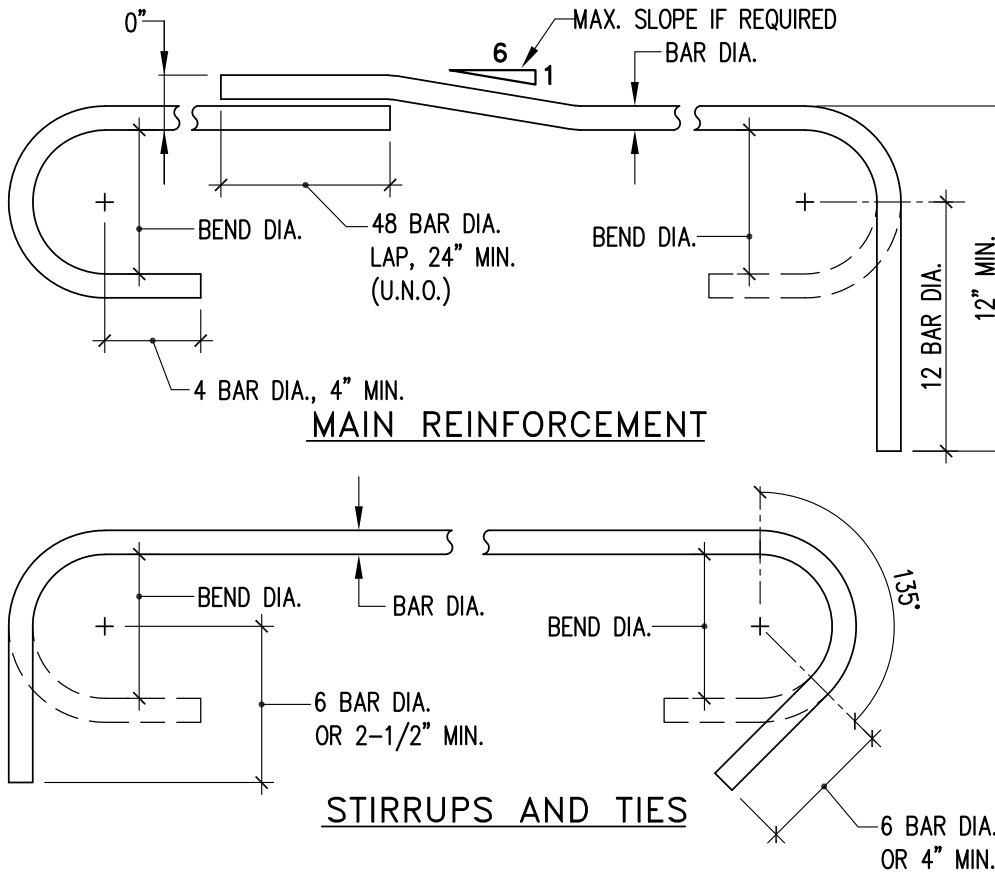
- USE COMMON WIRE NAILS FOR ALL NAILED CONNECTIONS. BOX NAILS ARE PROHIBITED.
- WHERE POSSIBLE, DRIVE NAILS PERPENDICULAR TO THE GRAIN IN LIEU OF TOE NAILING.
- NAILING DETAILED ELSEWHERE SUPERSEDES THE REQUIREMENTS OF THIS SCHEDULE. NAILING SHOWN ABOVE ARE MINIMUM REQUIREMENTS.
- NAILS USED AT PRESSURE TREATED FRAMING SHALL BE HOT-DIPPED GALVANIZED.

NAILING SCHEDULE

CLASS A & B BAR LAP SPLICE LENGTHS (INCHES)									
l _d = DEVELOPMENT LENGTH OF BAR									
BAR SIZE	f _c =2500			f _c =3000			f _c =4000		
	Ld	A	B	Ld	A	B	Ld	A	B
# 3	18	18	23	16	16	21	14	14	18
# 4	24	24	31	22	22	28	19	19	25
# 5	30	30	39	27	27	36	24	24	31
# 6	36	36	47	33	33	43	28	28	37
# 7	53	53	68	48	48	62	42	42	54
# 8	60	60	78	55	55	71	47	47	62
# 9	68	68	88	62	62	80	54	54	70
# 10	76	76	99	70	70	77	60	60	78
# 11	85	85	110	90	90	100	67	67	87

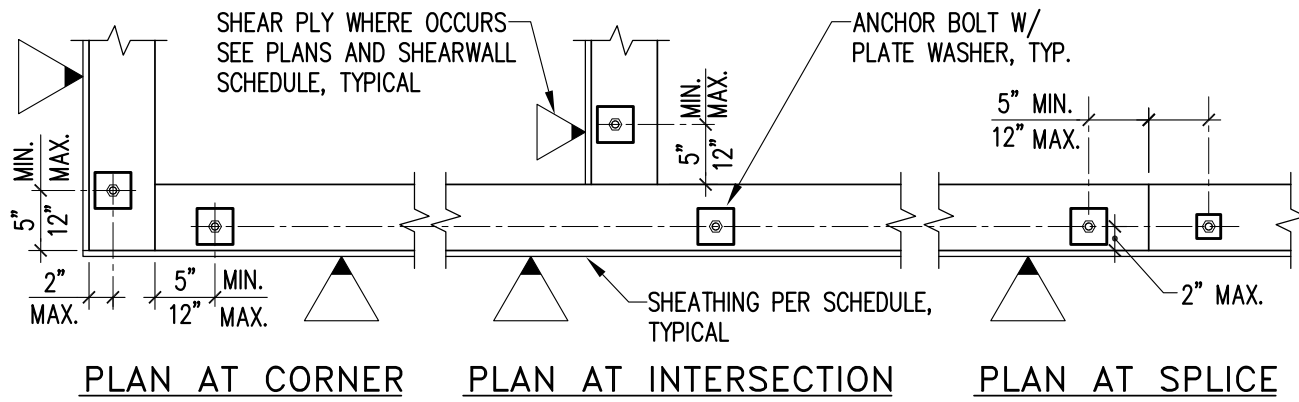
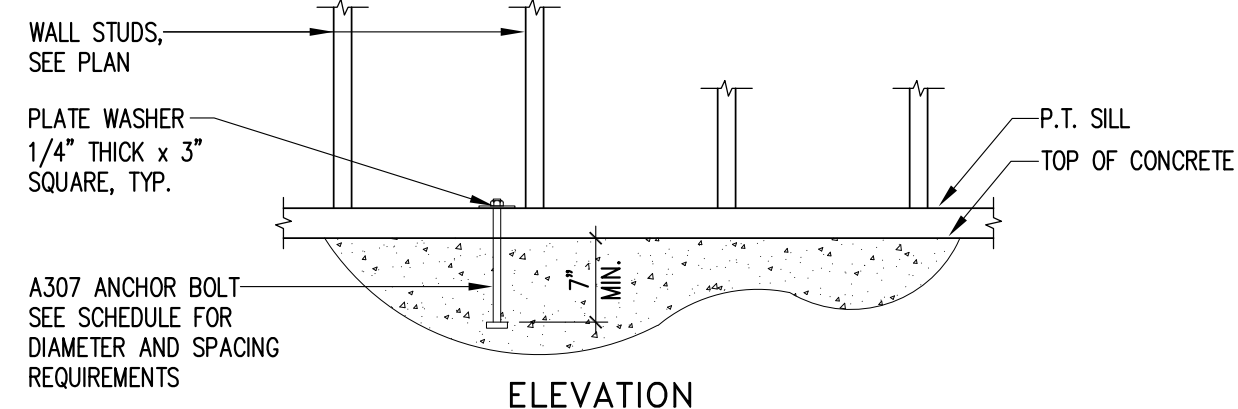
NOTES:

- FOR SLAB BARS, BOTTOM BEAM BARS, AND TEMPERATURE BARS IN SLABS, BEAMS, OR FOOTINGS WITH SPACING 6" OR MORE, USE 0.8 TIMES THE LENGTHS SHOWN, BUT NOT LESS THAN 1'-0".
- FOR BARS WITH MORE THAN 1'-0" OF CONCRETE CAST BELOW THE DEVELOPMENT LENGTH OR SPLICE, USE 1.3 TIMES THE LENGTHS SHOWN.
- IF MORE THAN 50% OF THE BARS ARE SPLICED WITHIN SPLICE LENGTH, USE CLASS 'B' LAP, OTHERWISE USE CLASS 'A' LAP.



BAR LAPS AT CONCRETE INTERSECTIONS
FOOTINGS & WALLS

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



SILL PLATE ANCHOR BOLT REQUIREMENT

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

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S2.1	RAMP FOUNDATION DETAILS

SYMBOLS LEGEND

SYMBOL DESCRIPTION

- Detail No.
- Sheet Location
- View Direction
- Section/Elevation No.
- Sheet Location
- Indicates Degree of Slope
- Indicates Sloped Beam, Slab, or Deck. Arrowhead indicates direction.
- Indicates estimated dimension. For Exact Dimension see Architect
- Revision Number
- Affected Region due to Current Revision.

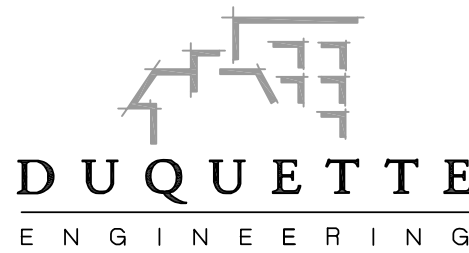


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STRUCTURAL SPEC.

SYMBOLS LEGEND
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NAILING SCHEDULE &
STANDARD DETAILS

PROJ. NO. 17-0079

SCALE AS SHOWN

DATE 20 NOV 2017

PHASE SD

DRAWN ABL/JGL

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NO. DATE REVISION
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25 JAN 2018 REV PLAN CHK COMMENTS

SHEET NO.

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SEE ARCHITECTURAL DRAWINGS FOR ALL
DIMENSIONS, ELEVATIONS AND WALL LAYOUT.
DO NOT SCALE THE STRUCTURAL DRAWINGS.

GARAVAGLIA

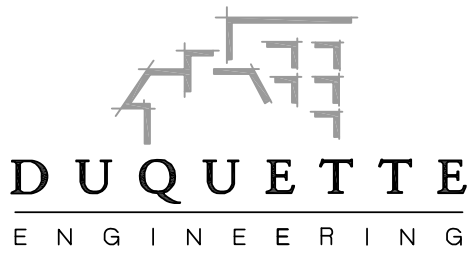
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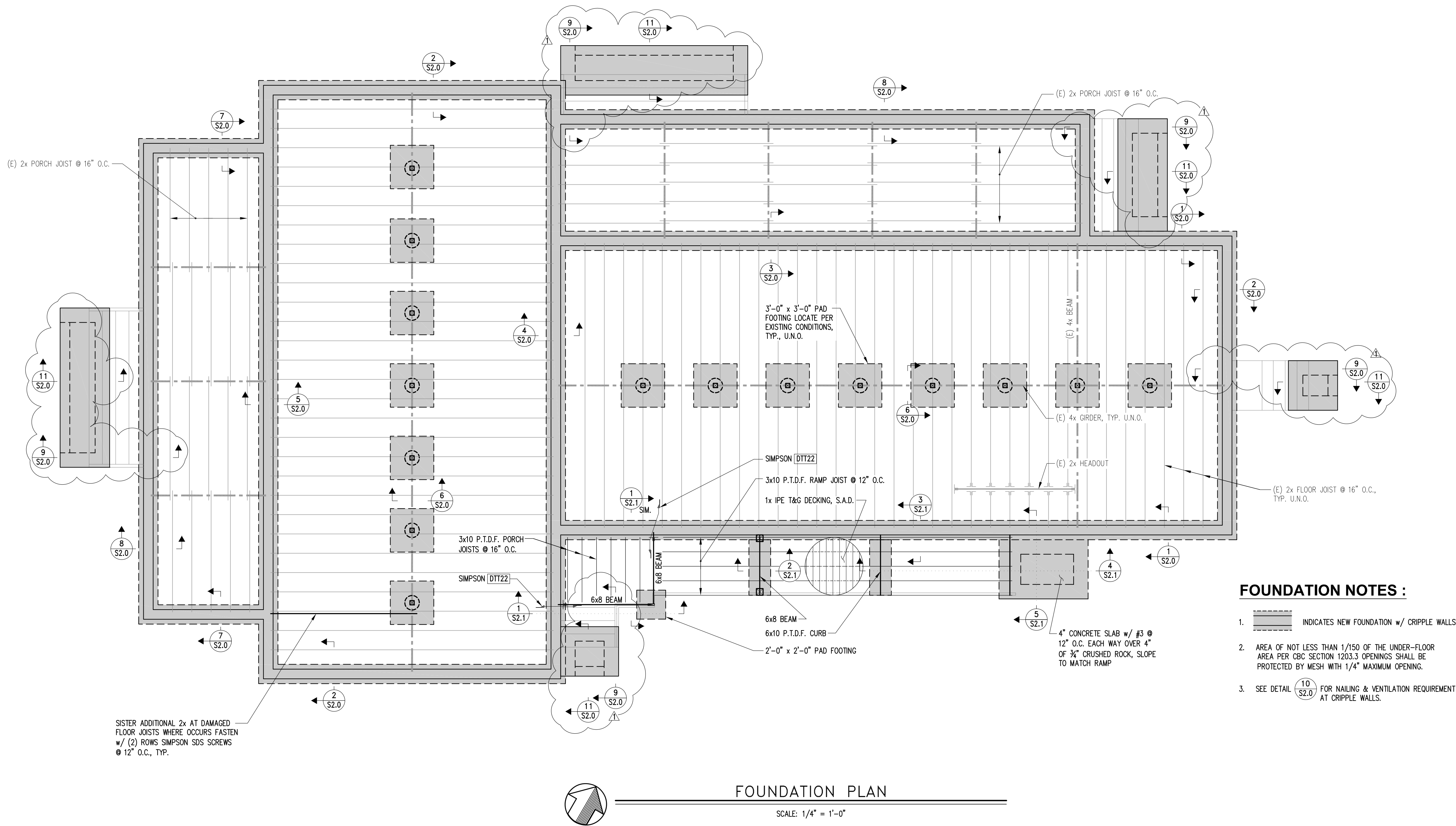
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FOUNDATION PLAN



FOUNDATION NOTES :

- INDICATES NEW FOUNDATION w/ CRIPPLE WALLS
- AREA OF NOT LESS THAN 1/150 OF THE UNDER-FLOOR AREA PER CBC SECTION 1203.3 OPENINGS SHALL BE PROTECTED BY MESH WITH 1/4" MAXIMUM OPENING.
- SEE DETAIL (10) FOR NAILING & VENTILATION REQUIREMENT AT CRIPPLE WALLS.

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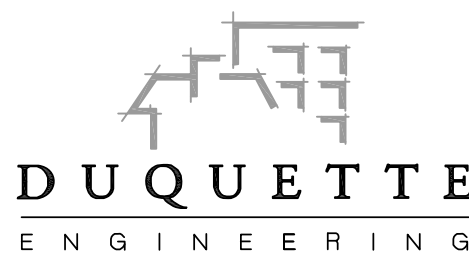
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FOUNDATION DETAILS

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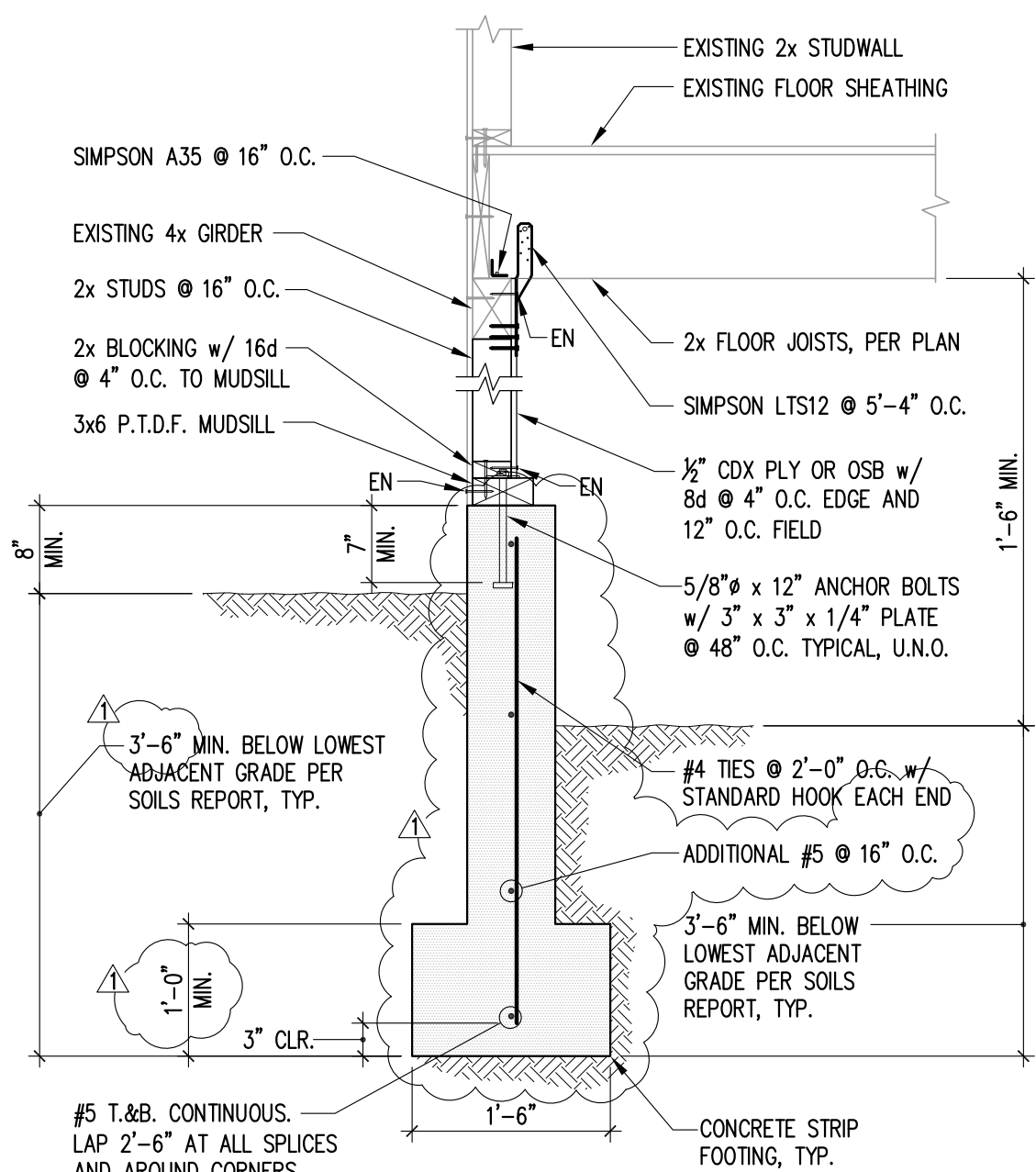
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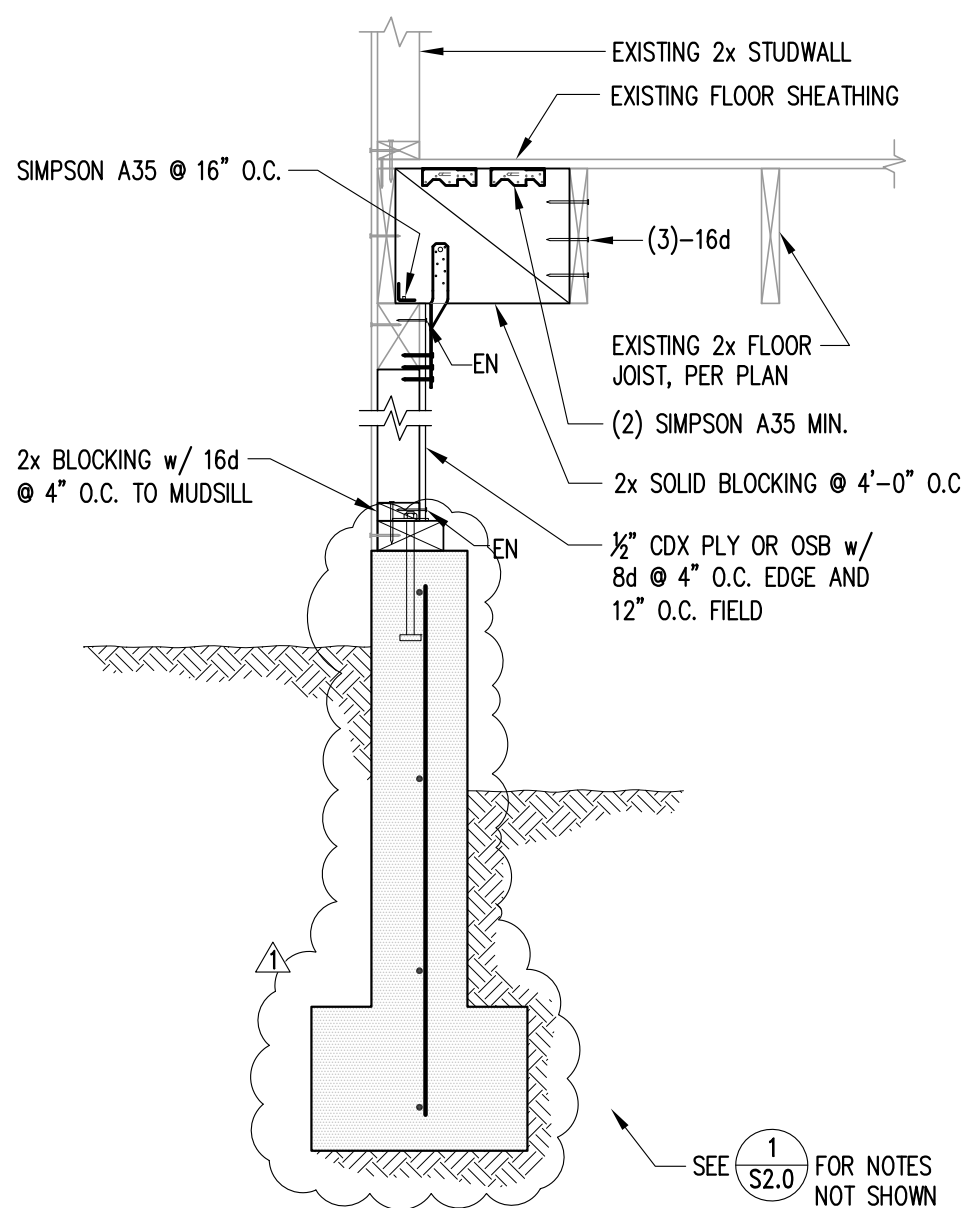
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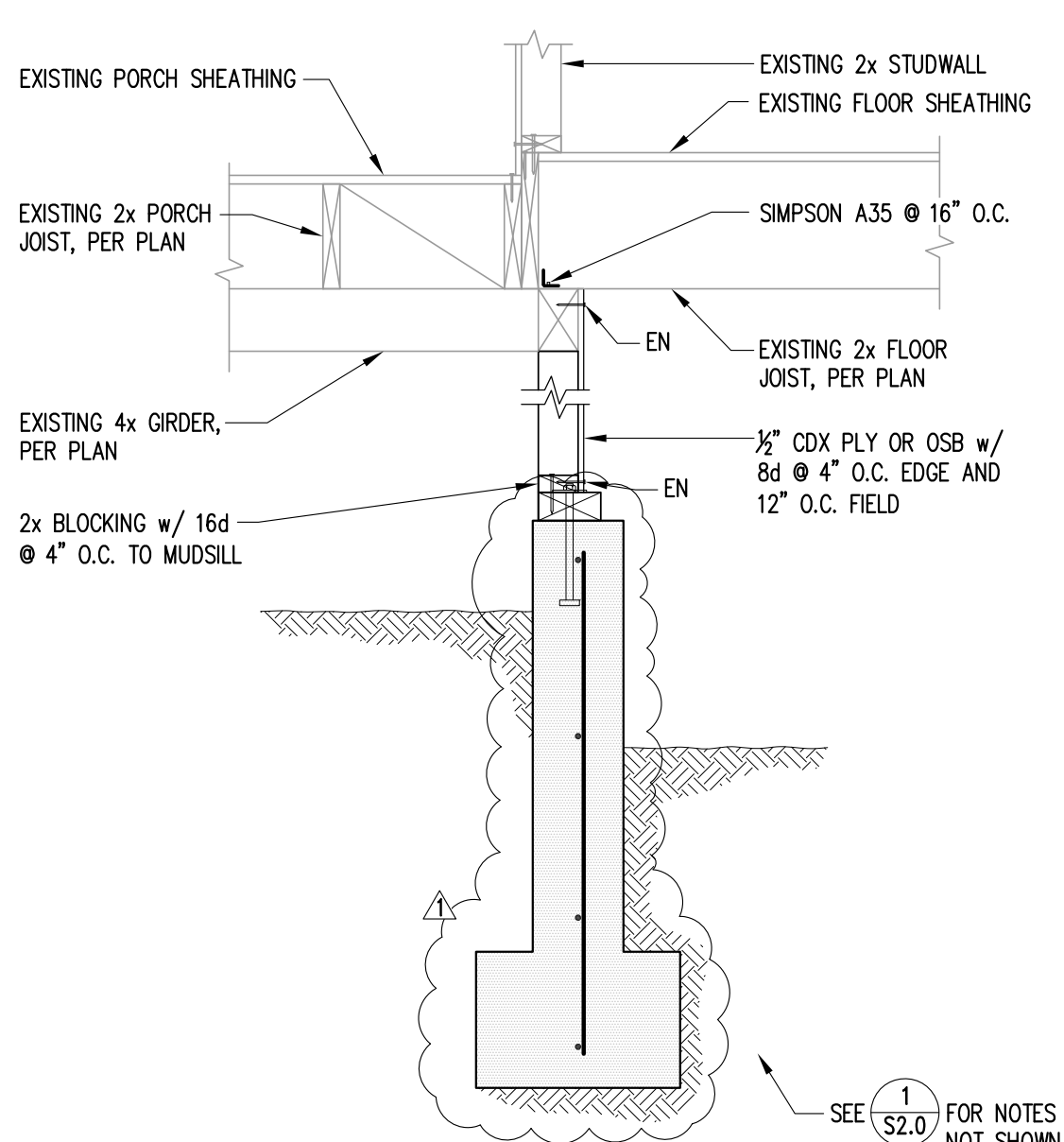
SECTION AT EXTERIOR FOOTING w/ CRIPPLE WALL-JOISTS PERPENDICULAR

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



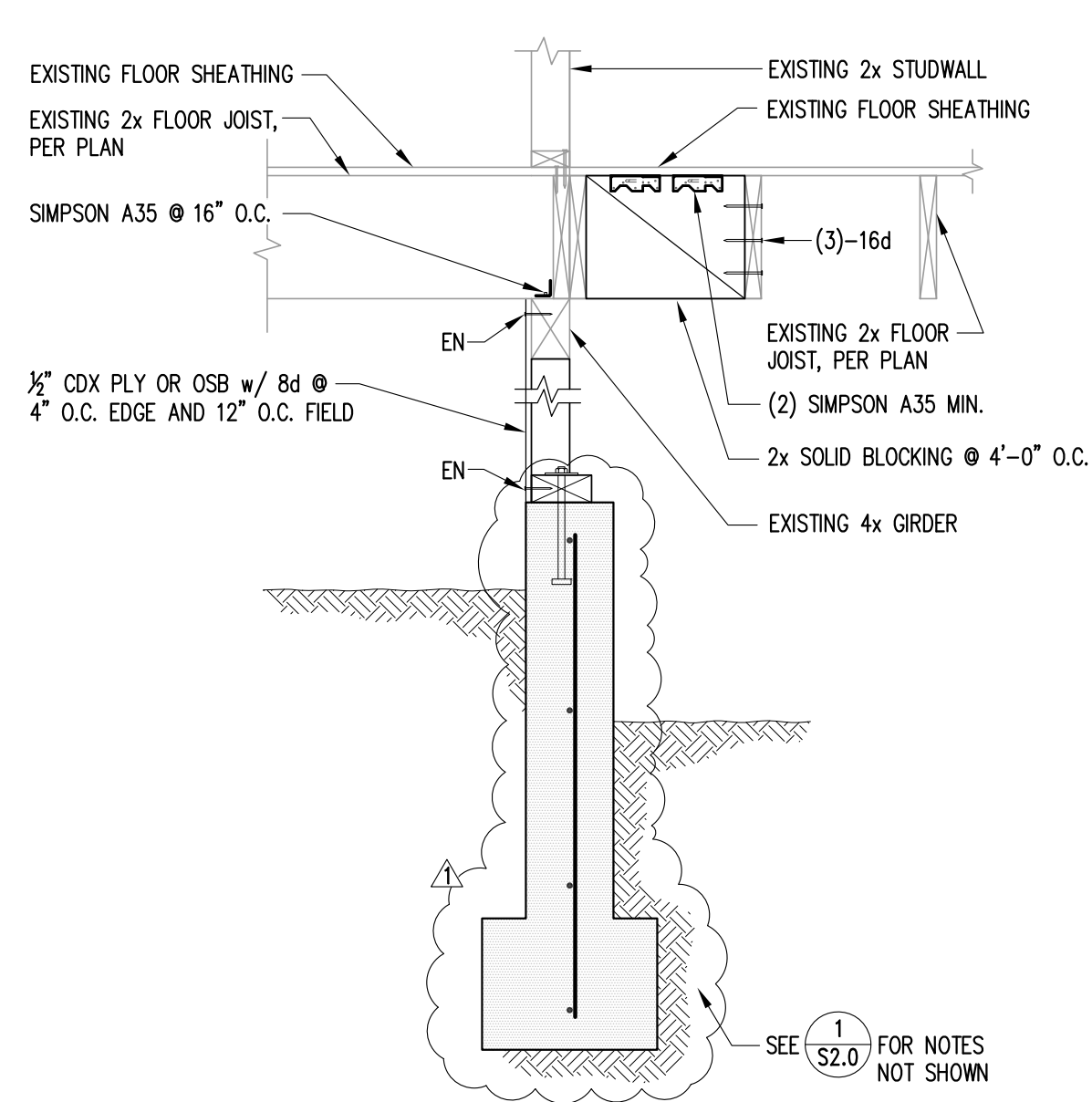
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SCALE: 3/4" = 1'-0"



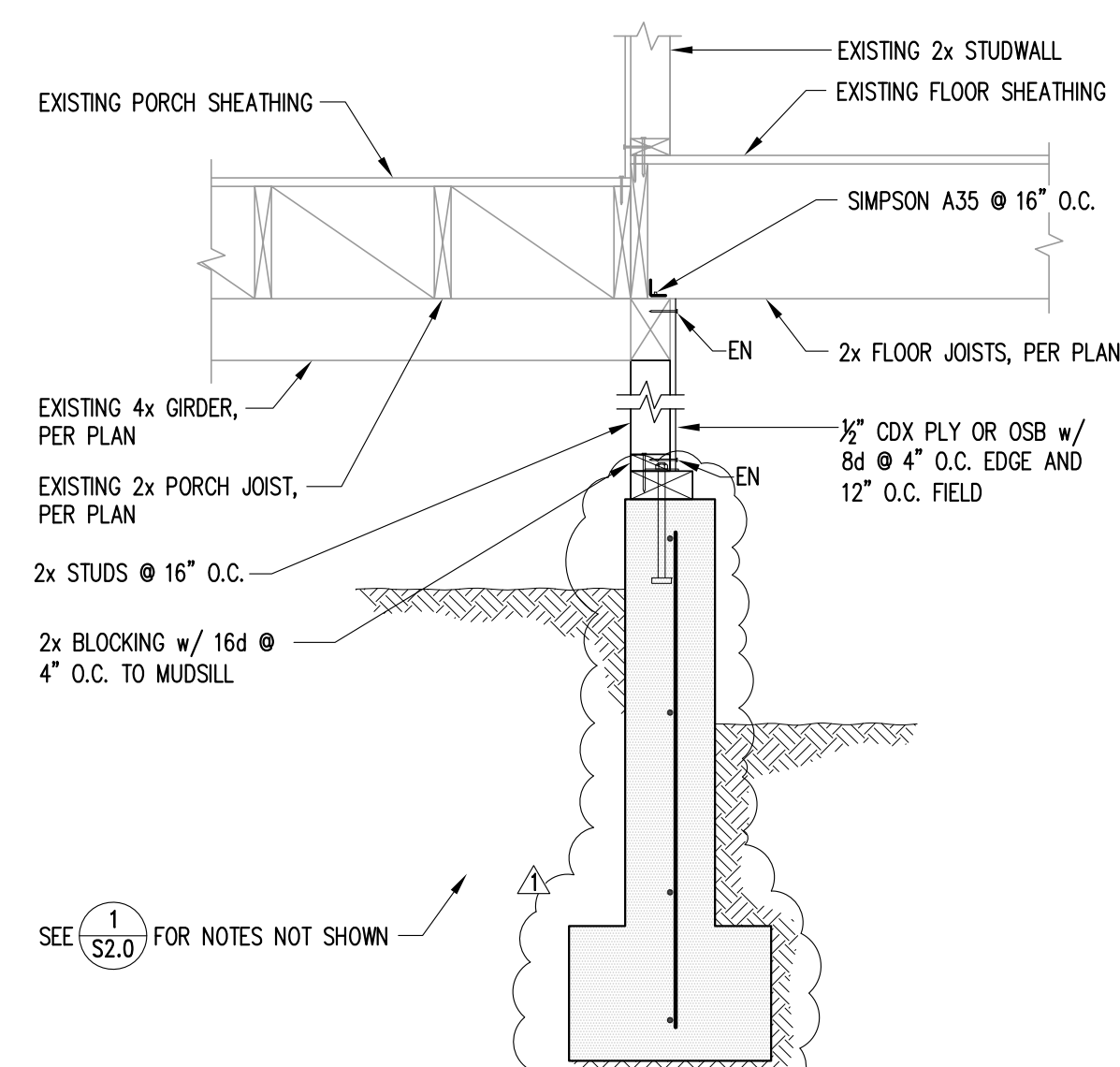
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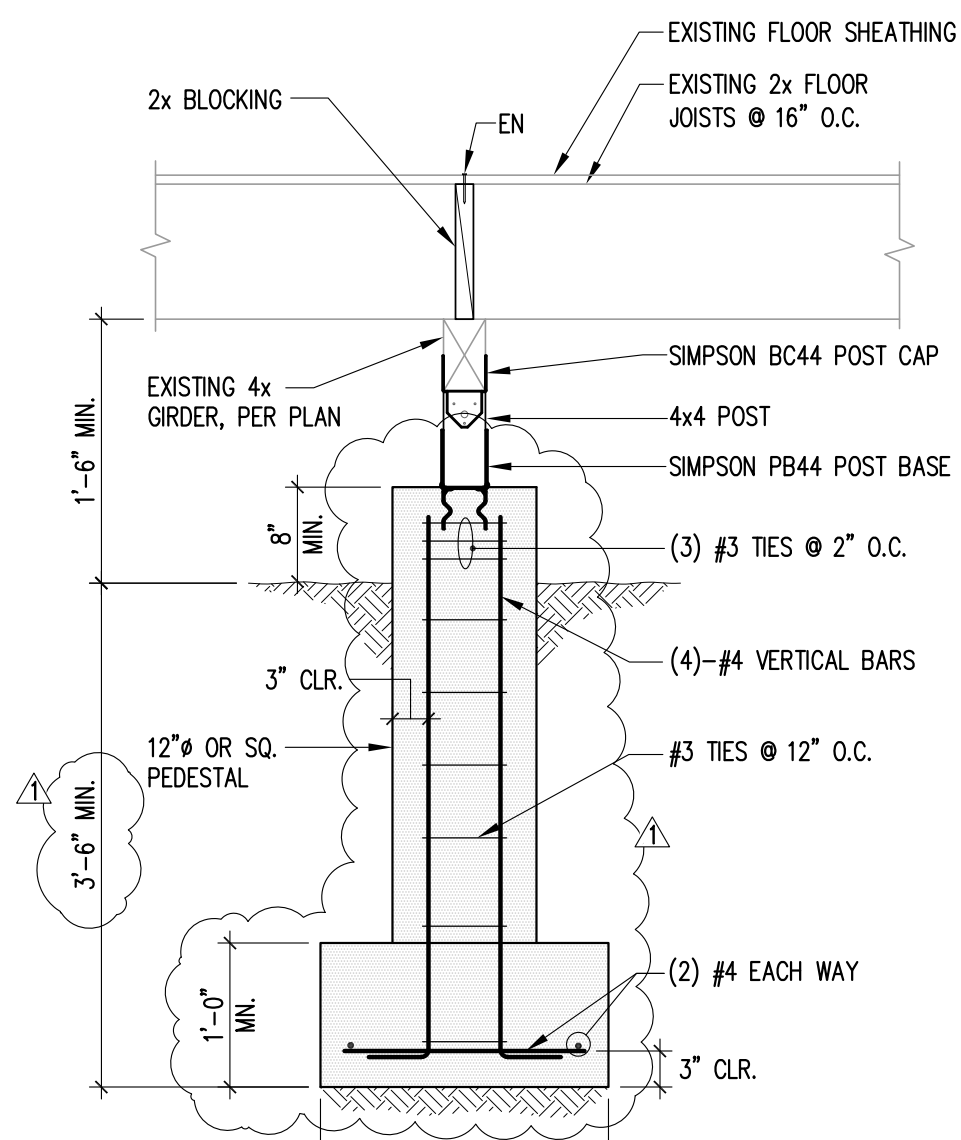
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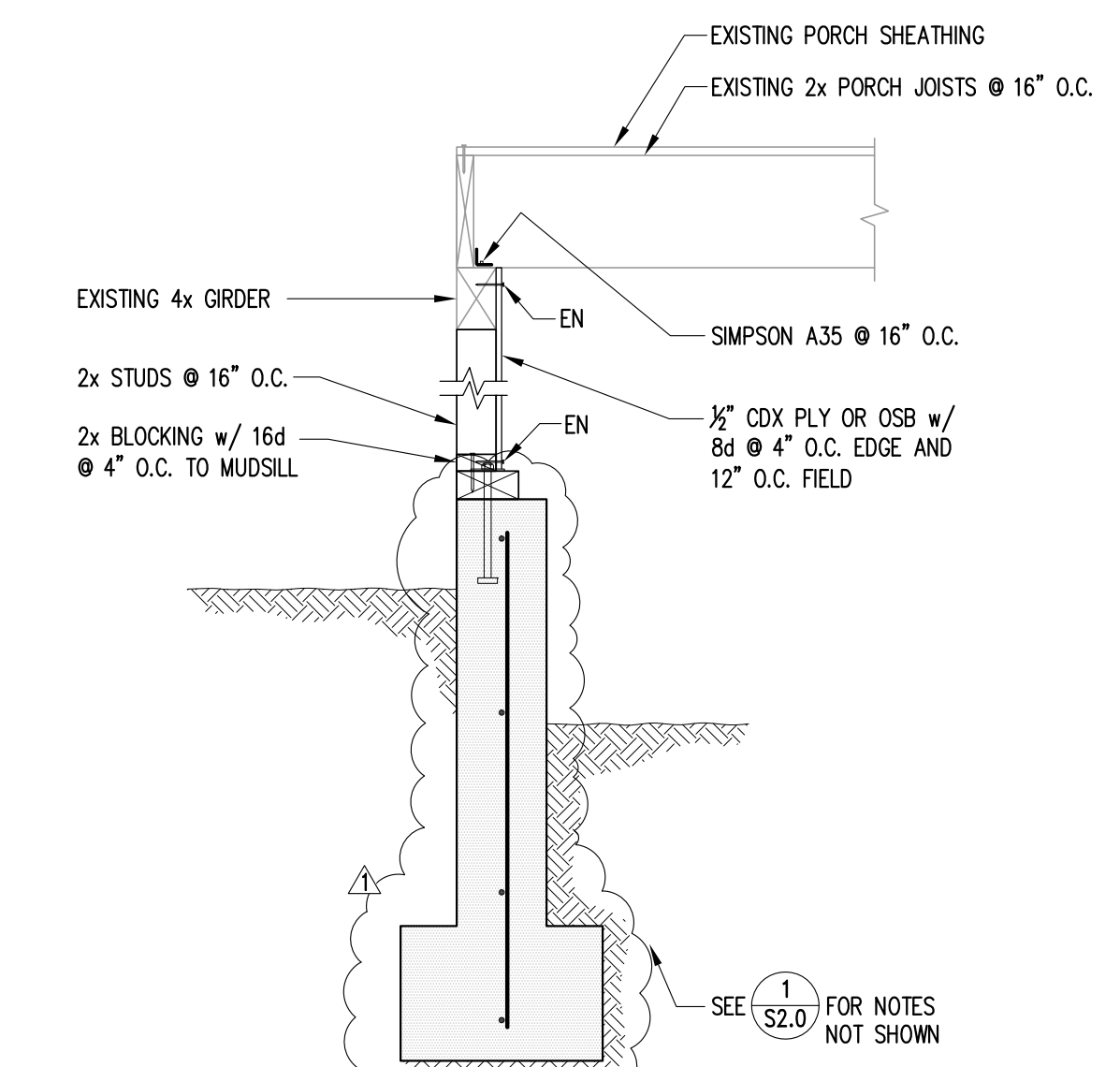
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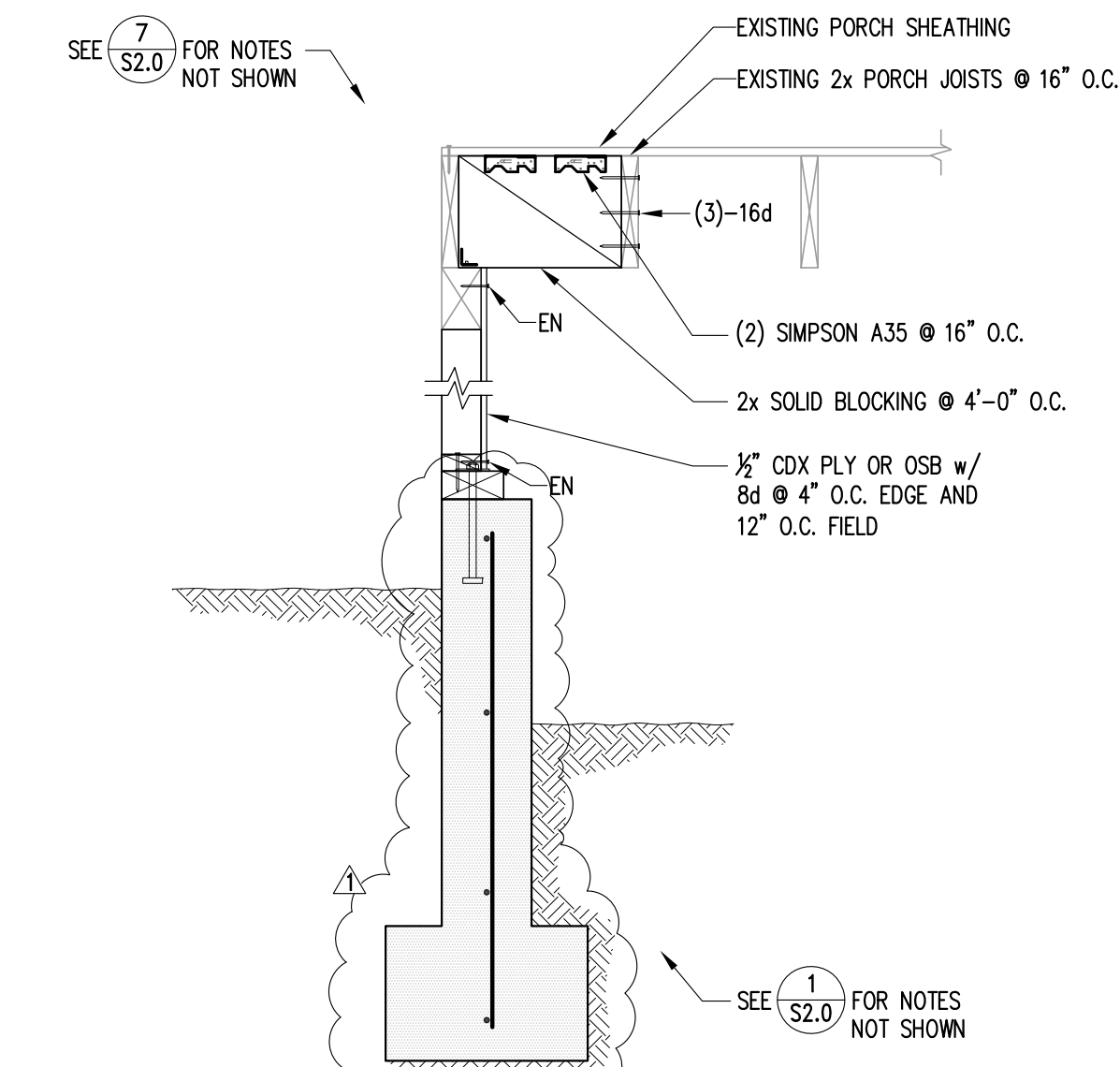
SECTION AT INTERIOR GIRDER AND POST

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



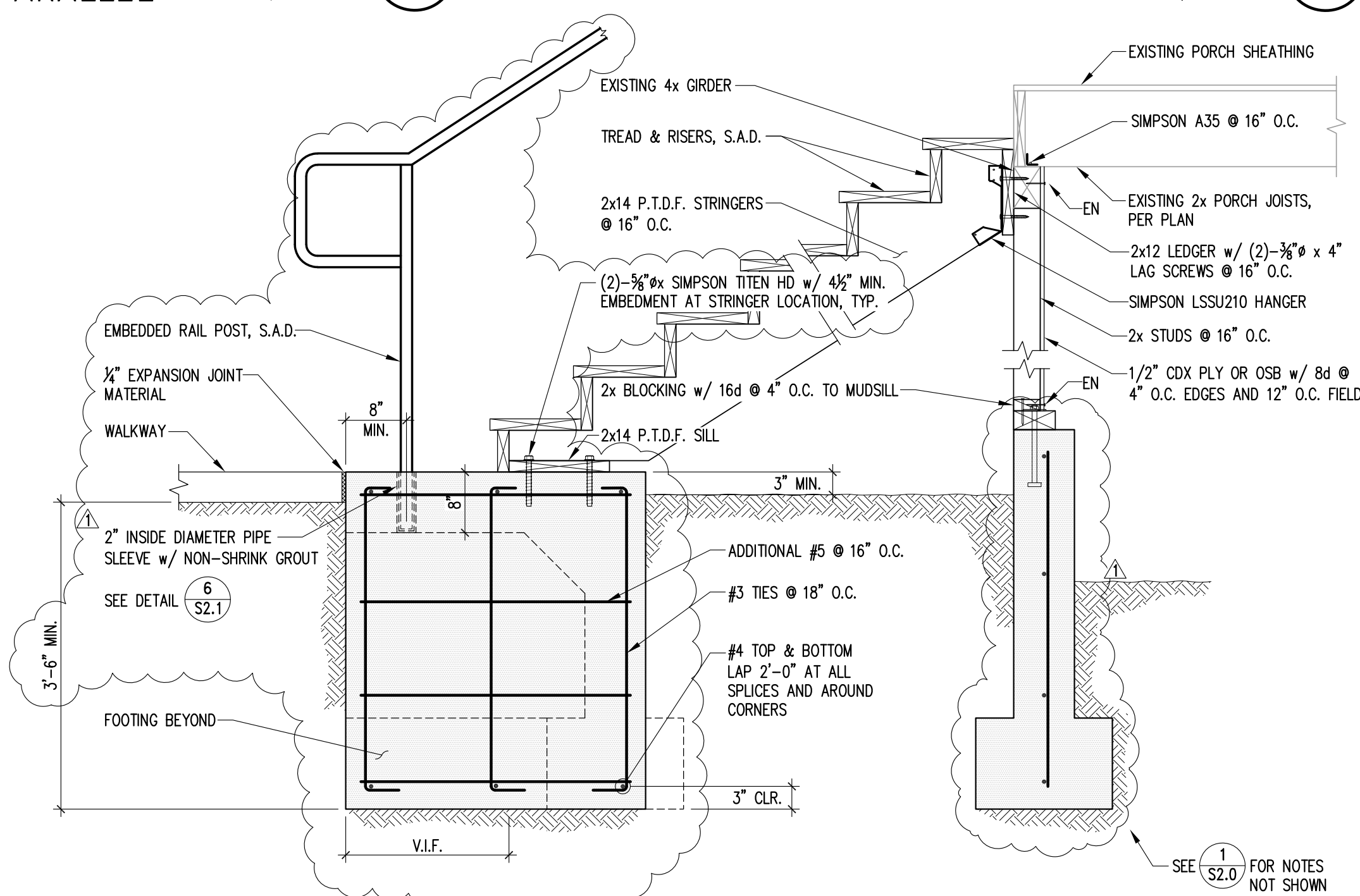
SECTION AT PORCH FOOTING w/ CRIPPLE WALL-JOISTS PERPENDICULAR

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



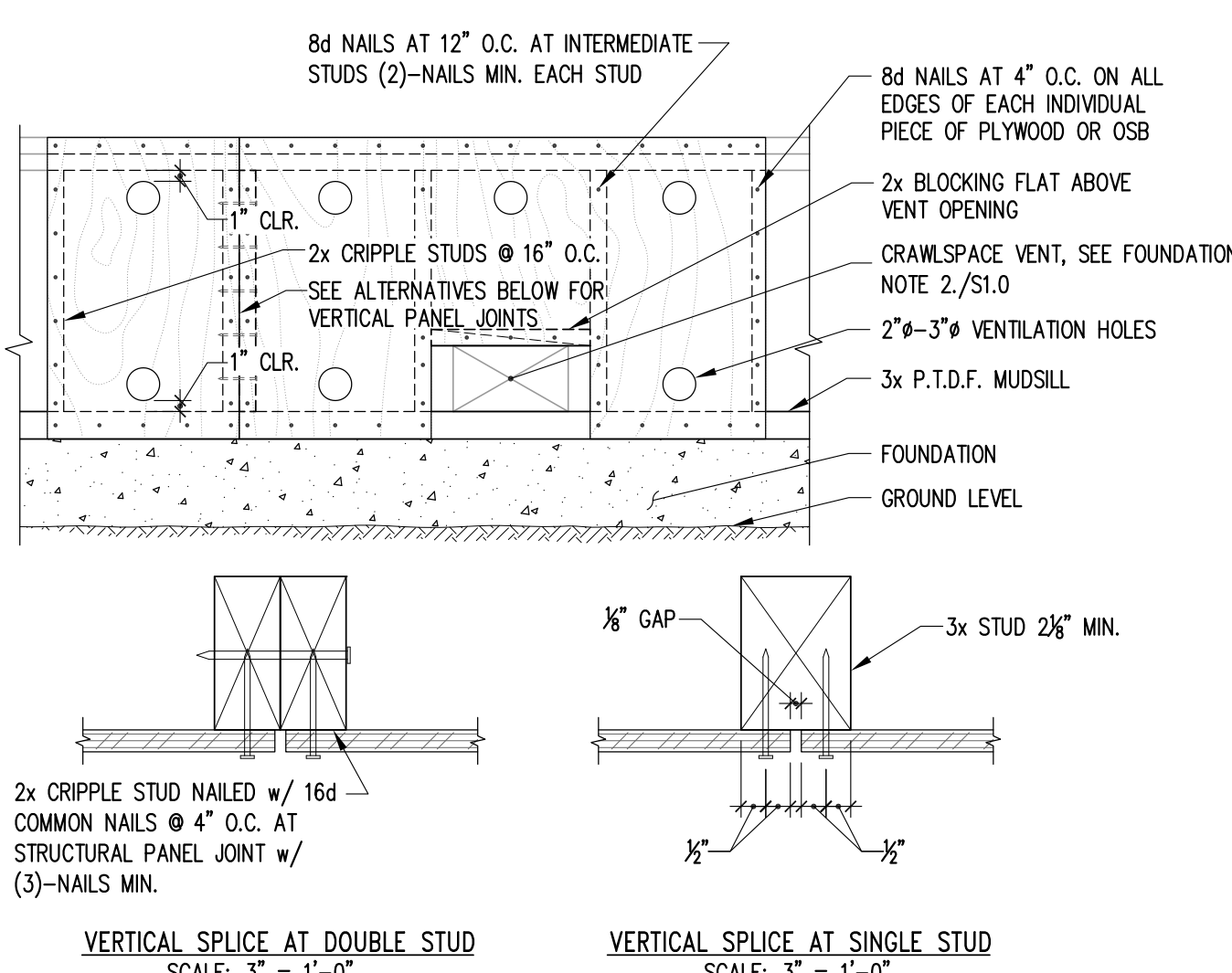
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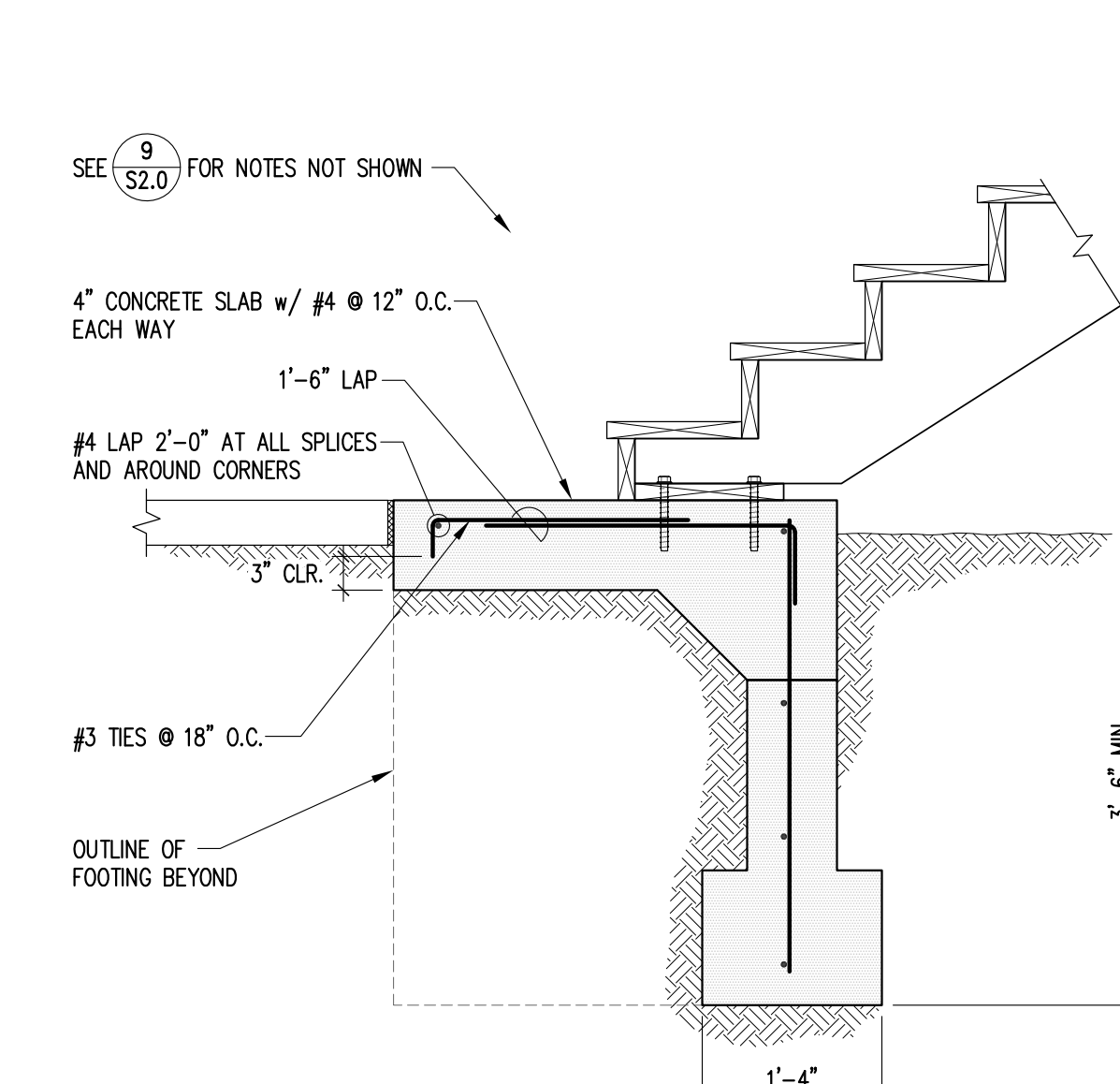
SECTION AT PORCH FOOTING w/ STAIRS

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



SECTION AT CRIPPLE WALL TYPICAL

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



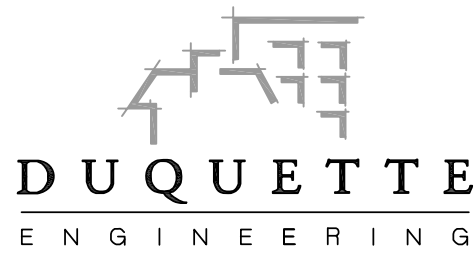
SECTION AT PORCH FOOTING

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



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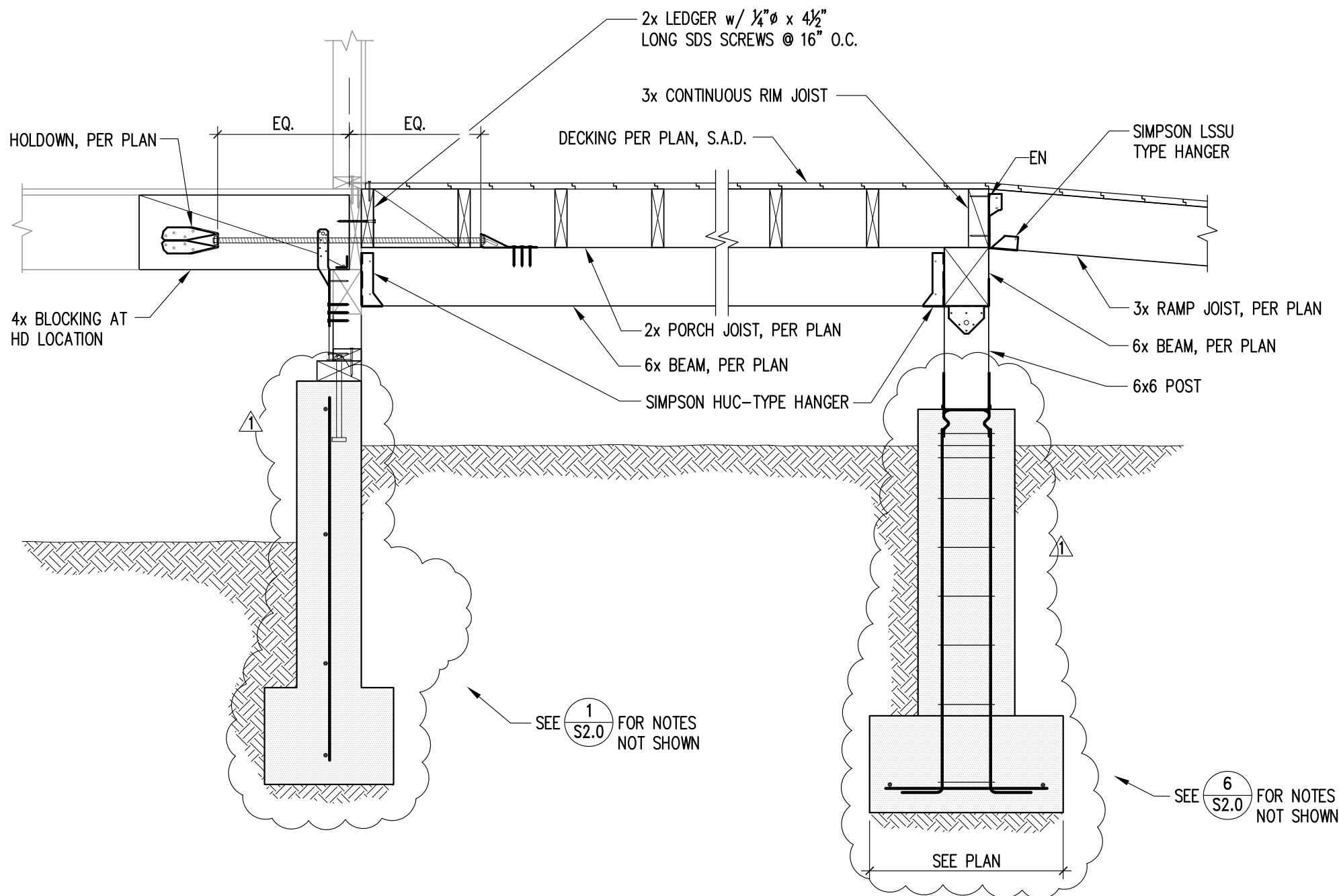


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RAMP END DETAILS



SECTION AT RAMP PORCH

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

1

SECTION AT MID RAMP

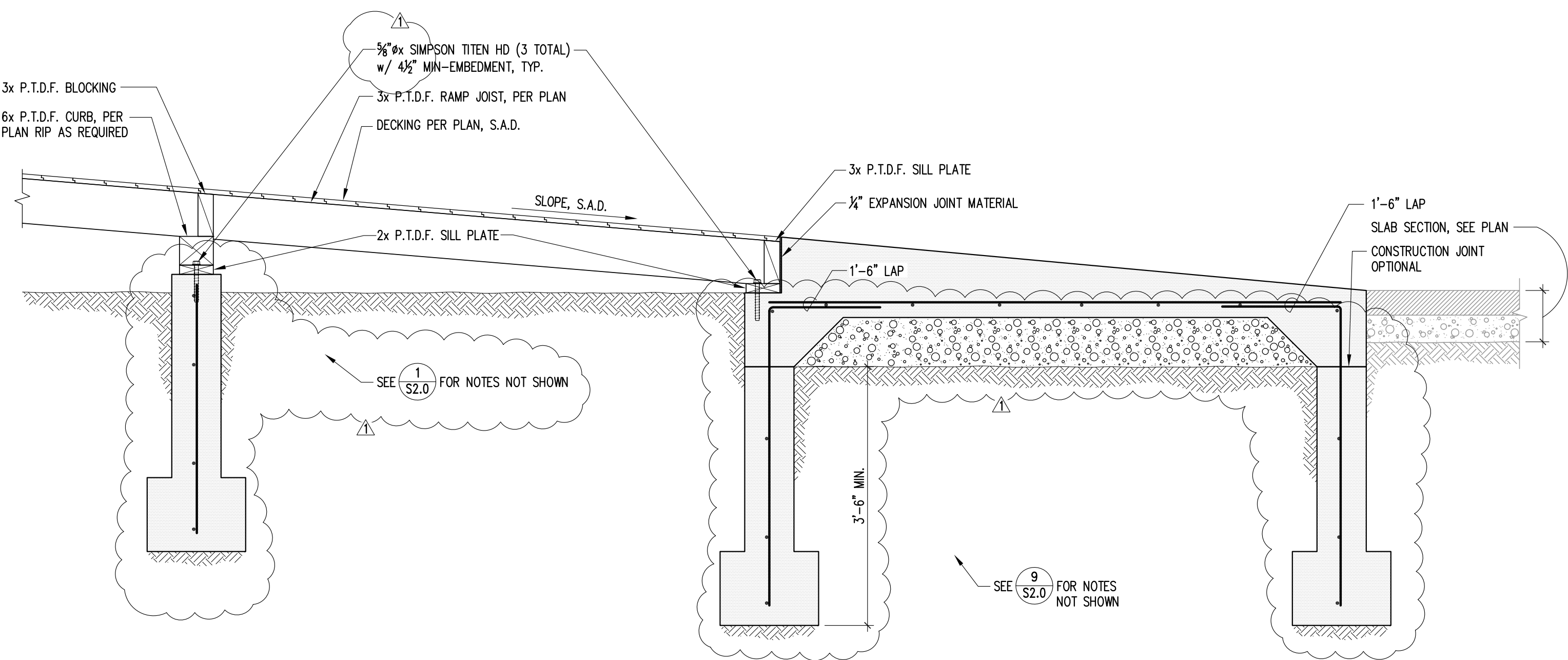
SCALE: 3/4" = 1'-0"

2

TYPICAL SECTION AT RAMP

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

3



SECTION AT LOWER RAMP

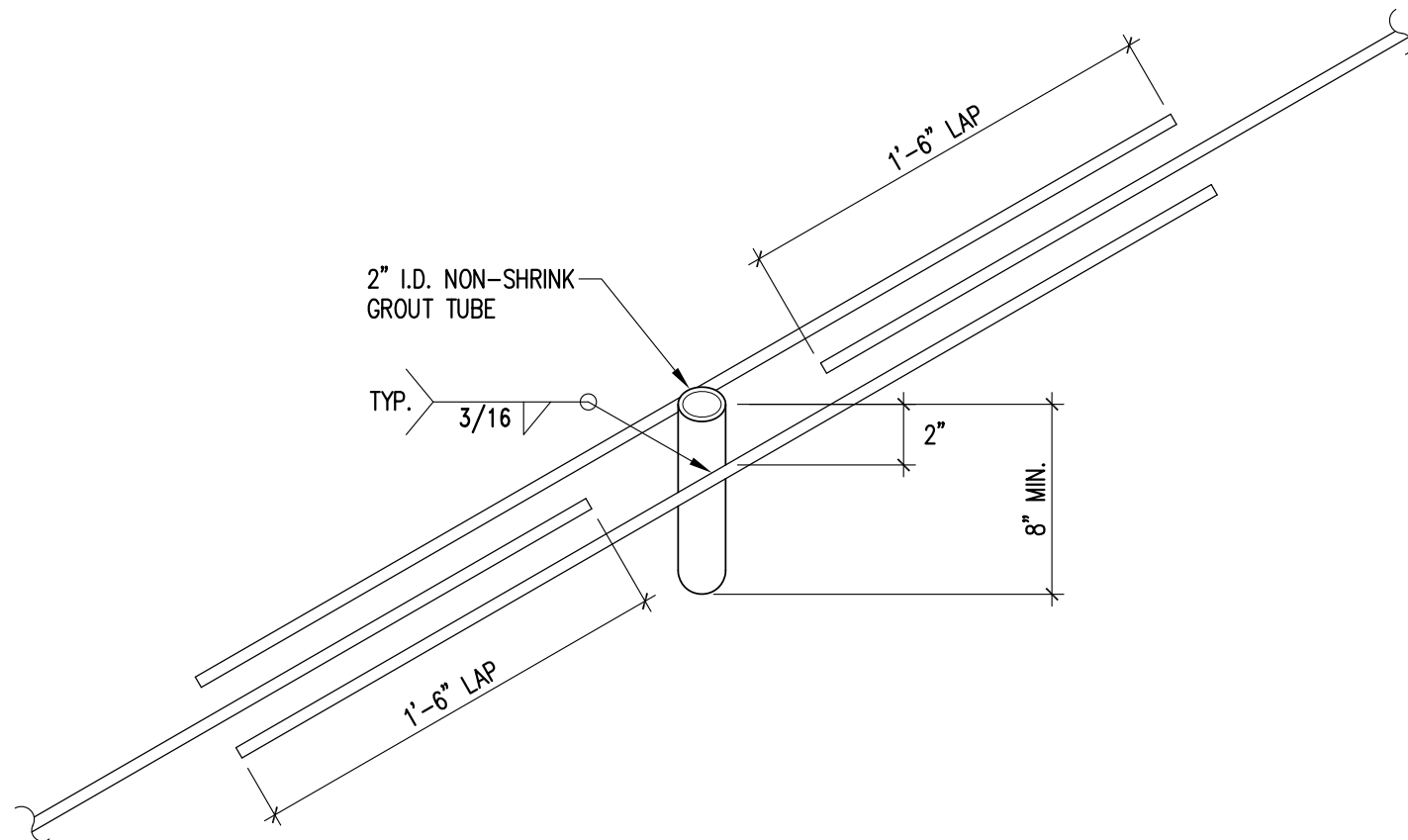
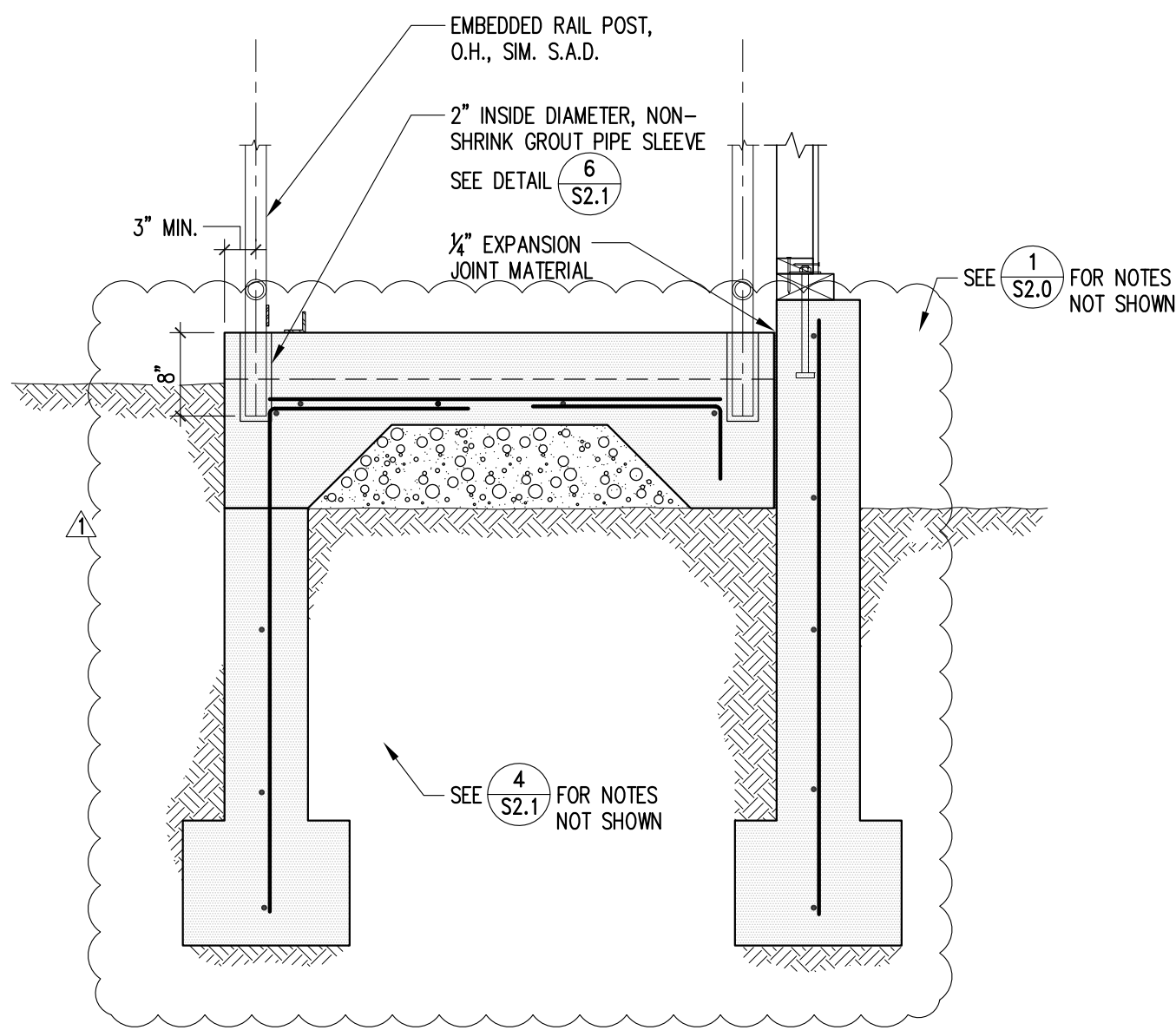
SCALE: 3/4" = 1'-0"

4

TYPICAL CROSS SECTION AT LOWER RAMP

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

5



PIPE SLEEVE DETAIL

SCALE: 1-1/2" = 1'-0"

6

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SCALE AS SHOWN

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