



NORTH CENTRAL HIGH SCHOOL, PHASE 2

Addendum 4

GENERAL

1. Sheet G0.02 was replaced on the SharePoint site to match those posted at Abadan and other sites where plans are available for viewing.

BID PACKAGE 07 – CONCRETE

1. Add the following to scope of work, Item 4: Also included is all core drilling required to complete this scope of work.

BID PACKAGE 08 – MASONRY

1. Add the following to scope of work, Item 5: Also included is weather barrier complete at masonry as outlined per specification section 061000 and as indicated per the plans. Mason is responsible for taking the weather barrier through flashing to be completed by others where masonry meets other exterior finish materials. Coordinate installation with framing subcontractor as required.

BID PACKAGE 09 – PLUMBING

1. For clarification: Cleaning and flushing of the domestic water system as outlined per 220000, 3.7a and the hydronic system as outlined per 232500, 3.1 will be completed by the GC/CM. Valves required to complete this process are the responsibility of this subcontractor. Also included are as-builts of valve locations.

BID PACKAGE 11 – ELECTRICAL

1. Add the following item to scope of work, Item 2: Electrical relocations and modifications at the existing buildings as indicated in the architectural floor plans and elevations. (Example: 2B/A7.02).

BID PACKAGE 14 – ROOFING AND SIDING

1. Add the following to scope of work, Item 9: Also included are column flashing boots per 17/A5.01.

1
2 This Addendum is hereby made a part of the Contract Documents to the same extent as though it were
3 originally included therein.
4

5 **ARCHITECTURAL**

6
7 **Specifications:**

8
9 Pre-Bid Meeting attendance list attached.

10
11 TABLE OF CONTENTS, Between lines 13 and 14, **ADD:** "08 33 26 OVERHEAD COILING GRILLES" (and
12 include entire specification section, attached hereto).
13

14 SECTION 01 23 00, ALTERNATES:

15
16 Page 2, lines 29-35: **CHANGE TO READ:**

17
18 **ALTERNATE NO. 6B, COMMONS FLOORING:** Under the Base Bid provide a bare concrete
19 floor, ~~seeded with aggregate as specified in Section 03 30 00 and smooth troweled for polishing~~
20 ~~under Section 03 35 10, Polished Concrete Floors. Provide no finished concrete polishing~~
21 ~~except for a 12' x 12' test area. Under this Alternate, after rejection of the test area by the~~
22 ~~Owner, provide resilient tile flooring (i.e. Altro Quartz tile) as specified in Section 09 65 00 in the~~
23 Commons and in surrounding areas and as scheduled on the Room Finish Schedule. NOTE:
24 The bid price of this Alternate must be held for 16 months from bid date due to the
25 construction schedule for the Base Bid slab.
26

27 Page 3, lines 27-31: **CHANGE TO READ:**

28
29 **ALTERNATE NO. 12, ILLUMINATED SIGNAGE:** Under the Base Bid provide no illuminated
30 signage. Under this Alternate provide exterior illuminated signage on the west façade (above
31 entry Door N101AAA) ~~and on~~ **Provide electrical rough-in only at** the east façade (on diagonal
32 southeast exterior brick wall of Room N217). See Section 10 14 33, Illuminated Signage. NOTE:
33 At the west entry position, the signage will be installed in lieu of transom spandrel glazing and
34 integrated in the aluminum storefront framing.
35

36 SECTION 06 40 00, ARCHITECTURAL CASEWORK, p. 7, line 15, **ADD:**

37
38 Gate Latch: Ives No. 825, or KV No. 989.

39 Gate Hinges: Piano hinge.
40

41 SECTION 07 76 00, PLAZA PAVERS, p. 5, line 27, **ADD:**

42
43 "4. Install salvaged brick pavers loose-laid on membrane (with protection sheet). Install in
44 running bond pattern, with all pavers nested tightly together and securely abutting bottom
45 curb condition."
46

47 SECTION 08 33 23, OVERHEAD DOORS, p. 1:

48
49 Line 50: **CHANGE TO READ:** "Type H" (not Type J).

50
51 Line 52: **CHANGE TO READ:** CS3000-M-**SS**. (This is a global change to stainless steel or "SS", and
52 not powder-coated steel or "PC" for all exposed-to-view components.)
53
54
55

1 SECTION 08 41 00, ALUMINUM STOREFRONT:
2

3 p. 2, Lines 26-31, **CHANGE TO READ:** "Kawneer Trifab VG 451T **and Trifab 601T**.... Aluminum
4 framing shall have a 2" face width and a depth of 4-1/2" **or 6"** and provide..."

5
6 p. 2, between lines 32 and 33: **ADD:**
7

8 **CURTAIN WALL SYSTEM:**

9 Kawneer 1600 System 1, thermally improved frames or equivalent products of U.S. Aluminum,
10 Marlin, EFCO, or Amarlite. System shall have a 2-1/2" face width and a depth of 7-3/8" or 5-3/4"
11 as shown on the Drawings. Provide for 1" glazing. Provide all accessories as needed for a
12 complete water-tight installation. Provide all reinforcement needed for applicable wind loads
13 and door support.
14

15 SECTION 08 91 19, LOUVERS AND VENTS, p. 4, lines 18, 19: **CHANGE TO READ:**

16 **Louvers:** Model ELF445DX by Ruskin (for Louver L-C2); and Model ELF445DXH, heavy duty (for
17 Louver LC-1) by Ruskin. Include 1/2" bird mesh screen.
18

19 SECTION 10 14 00, SIGNAGE, p. 3, line 19; **CHANGE TO READ: "CONCESSIONS"** (in lieu of **TO BE**
20 **DETERMINED**).
21

22 SECTION 10 27 00, SPECIALTY MODULES, p. 2, line 20, **ADD:**
23

24 **BALLET BARRE AT BLACK BOX:**
25

26 Adjustable wall brackets, with accessory 1-3/4" wood rail (any hardwood species, clear
27 finish). Equal to products of Tumbler Trak or Dance Equipment International, 1-408-267-1446
28 (www.danceequipmentintl.com). Bracket to be installed in gaps between mirrors.
29

30 SECTION 31 63 29, MICROPILES:
31

32 p. 1, line 34, 19: **Change to Read:** "...and Addendum No. 1 dated February 4, 2016..."
33

34 p. 5, lines 4-5, **Add:** b. "Micropile Design and Construction, FHWA NHI-05-039."
35

36 p. 5, lines 13-14: **Change to Read:** "...and Addendum 1 dated February 2, 2016."
37

38 p. 5, line 27, **Change to Read:** "...vertical, uplift, lateral loads, and horizontal loads designated..."
39

40 p. 6, after line 17, **Add:** "c. For horizontally installed micropiles on sheet S3.02 and detail 12/S4.03,
41 the no load zone is 8'-0" minimum beyond the inside face of the existing wall."
42

43 p. 6, line 24, **Change to Read:** "...to 0.75 inches at 1 x design ASD loads."
44

45 p. 6, line 25, **Change to Read:** "...to 0.50 inches at 1 x design ASD loads."
46

47 p. 6, after line 25, **Add:** "6. For horizontally installed micropiles, after testing, lock off the anchor to
48 a snug tight condition after taking up any slack in the anchor. Lock off load shall not exceed 1/2 x
49 design ASD load and limit the maximum lateral deflection as noted above."
50

51 p. 7, lines 35-36, **Change to Read:** "...or coupon test results for permanent casing without mill
52 certification."
53

54 p. 9, line 36: **Change to Read:** "...Types I, II, III or V."

1 p. 14, lines 17, 18: **Change Item E to Read:** "Conduct compression load tests in accordance with
2 ASTM D1143 and tension load tests in accordance with ASTM D3689 and as specified."

3 p. 14, lines 19-21, **Change Item F to Read:** "Proof load tests shall be conducted on 20 percent of
4 production vertical micropiles. The Contractor, DCI and GeoEngineers shall agree on the test
5 locations. Proof load test each horizontally installed anchor to the required design load and lock
6 off. If micropiles are designed to resist axial loads only in skin friction, then either tension or
7 compression proof load tests can be used. If micropiles are designed to resist axial loads in end
8 bearing, then compression proof load test methods should be used."
9

10 p. 14, lines 33-38, **Change Item I to Read:** "Load the proof test micropiles in intervals specified
11 herein until the required proof load is reached, or until the micropile exhibits continuous
12 movement at constant load. Proportion any associated steel testing apparatus such that the
13 maximum stress does not exceed 80% of the guaranteed ultimate tensile strength of the steel
14 (GUTS). Position the jack at the beginning of the test such that unloading and repositioning of the
15 jack during the test will not be required."
16

17 p. 18, **Delete:** lines 17-20. (These lines refer to a payment method not used in this contract.)
18

19 **Drawings:**

20 SHEET G1.01, GRID PLAN

21 **ADD:** New attached sheet G1.01
22

23 SHEET G1.06, LEVEL 1&2 CODE PLAN:

24 **CHANGE:** Per the attached clarification CA-08 clarifying 1-hour construction around elevator
25 machine room.
26

27 SHEET A1.01, SITE DEMOLITION PLAN:

28 **DELETE:** Coded Note 20
29

30 SHEET A1.02, SITE PLAN:

31 **ADD:** A note at the "NEW CHILLER" note in the north area "CONC HOUSEKEEPING SLAB - SEE
32 MECH"
33

34 SHEET A3.03, COMMONS LEVEL FLOOR PLAN:

35 **CHANGE:** Per the attached clarification drawings CA-09 & CA-10
36

37 SHEET A3.04, LEVEL 3 FLOOR PLAN - AREA B:

38 **CHANGE:** Per the attached clarification drawing CA-17.
39

40 SHEET A3.10, DOOR SCHEDULE:

41 **ADD:** Door N318C, 3'-0" x 7'-0", DOOR TYPE: A, DOOR MATERIAL: STL, DOOR FINISH: PT, FRAME
42 TYPE: F-1, FRAME MATERIAL: STL, FINISH: PT, HEAD&JAMB DETAILS: 1-A5.21
43

44 SHEET A4.01, EXTERIOR ELEVATIONS:

45 **CHANGE:** Elevation 3 with the attached clarification drawing CA-11.
46

47 SHEET A4.02, EXTERIOR ELEVATIONS:

48 **CHANGE:** On Elevation 3, add a text note pointing to the spandrel glass to read, "SEE ELEV
49 12/A4.02 FOR ALTERNATE WORK"
50

51 **ADD:** Add Elevation 12 with the attached clarification drawing CA-12.
52

53 **CHANGE:** Elevation 10 with the attached clarification drawing CA-13.
54

CHANGE: Elevation 11 with the attached clarification drawing CA-14.

1 SHEET A4.06, BUILDING SECTIONS:

2 **CHANGE:** Section D with the attached clarification drawing CA-15.

3
4 SHEET A5.10, EXTERIOR DETAILS:

5 **CHANGE:** Detail 17, Callout for "CURT WALL MOUNTING CLIP..." should point to clip at roof
6 level.

7 **CHANGE:** Detail 19, revise text from "1 1/2" RIGID INUL, TYP" to read, "2" RIGID INSUL TYP".

8 **CHANGE:** Detail 23, revise dimension from "10 3/8"" to read, "11" +/-".

9 **CHANGE:** Detail 23, revise text to read, "5 3/4" ALUM CW SYSTEM, ALIGN FACE W/ EXIST ADJT".

10
11 SHEET A5.11, EXTERIOR DETAILS:

12 **CHANGE:** Detail 8, revise text from "1 1/2" RIGID INUL" to read, "2" RIGID INSUL".

13 **CHANGE:** Detail 14, revise text from "1 1/2" RIGID INUL, TYP" to read, "2" RIGID INSUL TYP".

14
15 SHEET A5.12, EXTERIOR DETAILS:

16 **REPLACE:** Sheet in its entirety with attached drawing sheet A5.12.

17 **ADD:** Add Detail 20 to sheet.

18
19 SHEET A5.13, EXTERIOR DETAILS:

20 **REPLACE:** Sheet in its entirety with attached drawing sheet A5.13.

21 **ADD:** Add Details 17 and 18 to sheet.

22
23 SHEET A6.10, STAIR DETAILS:

24 **ADD:** NEW detail 20 per the attached clarification CA-18.

25
26 SHEET A9.01-A9.04, REFLECTED CEILING PLANS:

27 **CHANGE:** For clarity, revise the legend with the attached clarification drawing CA-19.

28
29 SHEET A9.01, LEVEL 1 REFLECTED CEILING PLAN AREA B:

30 **ADD:** At exterior soffit area over the bench on the east side, add a ceiling type callout to read,
31 "10'-2"/C-10".

32
33 SHEET A9.04, LEVEL 3 REFLECTED CEILING PLAN AREA B:

34 **CHANGE:** At corridor soffit area along Grid E2 and near Grid EF, revise ceiling type callout along
35 glass to read, "11'-8"/C-2"

36 **CHANGE:** Revise ceiling at West Entry with the attached clarification drawing CA-16.

37
38
39 **Prior Approvals:**

40
41 The following products are approved for bidding subject to review and approval of Submittals and
42 provided the Manufacturer meets all the requirements of the originally specified product. It shall be
43 the initiator's responsibility to ensure that the proposed substitution is equal in every respect to the
44 originally specified product, including but not limited to finish, size, weight, clearances, durability,
45 maintenance, ease of operation, performance criteria, etc.

46
47 No Items

48
49 END OF ARCHITECTURAL ADDENDUM NO. 4
50

1
2 SECTION 08 33 26 - OVERHEAD COILING GRILLES
3
4

5 PART 1 - GENERAL
6
7

8 DESCRIPTION:
9

10 Extent of the work is shown on the drawings.
11

12 Sustainability: Conform to Section 01 81 13 WSSP requirements for use of recycled content, waste
13 management, regional materials, and indoor air quality. Tabulate all materials cost of work of this Section.
14 In addition, separately tabulate premium costs of materials (if any) related to fulfillment of WSSP
15 requirements.
16

17 Work Included: Provide all materials, labor, equipment and services necessary to furnish and install the
18 following security grilles as specified herein:
19

20 Overhead Coiling Grilles
21

22 WARRANTY:
23

24 Provide one-year warranty against defects in manufacture and installation, with such defects repaired at no
25 cost to owner.
26

27 SUBMITTALS:
28

29 Furnish descriptive literature and shop drawings for all materials specified herein in accordance with
30 Section 01300.
31
32

33 PART 2 - PRODUCTS
34
35

36 GENERAL REQUIREMENT FOR ALL MOTORIZED DOORS:
37

38 Under this specification section, furnish all necessary devices, accessories, conduit and wiring for a
39 complete installation, with all specified systems fully operational. A single point power connection and (if
40 applicable) fire alarm connection will be brought to motorized grilles. It is this contractor's responsibility
41 to provide all other necessary wiring, conduit, J-boxes, systems wiring, key switches and other accessories
42 needed for a complete installation, fully functional in every respect and interfaced with building power and
43 fire alarm systems. All work shall meet standards specified in Division 16, Electrical. Coordinate switch
44 box location and conduit placement with concrete formwork, masonry and steel framing. See architectural
45 floor plans for motorized switch locations. Provide 3-position key switches. Key switches to accommodate
46 a Schlage 6-pin cylinder similar to 20-001.
47

48 OVERHEAD COILING SECURITY GRILLES
49

50 Doors Included: Type J doors per Door Schedule.
51

52 Motorized coiling grilles equal to Overhead Door Corporation 670 Series Security Grille, aluminum curtain
53 (clear anodized), standard lattice at 2" centers, with key-operated switch as noted above, no hoods required.
54 Include standard guides, brackets, counterbalance, and other features as needed for complete installation.
55 Locking: via operating gearing.
56

PART 3 - EXECUTION

INSTALLATION:

Install grilles and operating equipment complete with necessary hardware, jamb and head mold strips, anchors, inserts, hangers, and equipment supports in accordance with final shop drawings, manufacturer's instructions, and as specified herein.

Install wiring in accordance with applicable local codes and the National Electrical Code Standard. Materials shall be UL listed.

Test door opening sequence when activated by the building's fire alarm system. Reset door after successful test.

Upon completion of installation including work by other trades, lubricate, test and adjust doors to operate easily, free from warp, twist or distortion and tight-fitting for entire perimeter. Provide training for the owner's maintenance and building staff on operation of doors, and reset of all fire-alarm-activated doors after alarm condition expires.

END OF SECTION 08 33 26

This Addendum is hereby made a part of the Contract Documents to the same extent as though it were originally included therein.

STRUCTURAL

Drawings:

See clouded items on each sheet referenced below.

SHEET S1.01, STRUCTURAL GENERAL NOTES:

CHANGE: Under INSPECTIONS, QUALITY ASSURANCE VERIFICATIONS AND TEST REQUIREMENTS, under SOILS & FOUNDATION CONSTRUCTION, under Continuous Inspections change the Helical pier reference to "Micropile Foundations per IBC Section 1705.9.

ADD: Under INSPECTIONS, QUALITY ASSURANCE VERIFICATIONS AND TEST REQUIREMENTS, under STRUCTURAL MASONRY, under Periodic Inspections add Infill of Openings at Existing Masonry Walls.

CHANGE: Under SOILS AND FOUNDATIONS, change the following:

GEOTECHNICAL REPORT: Recommendations contained in "**Geotechnical Engineering Services during Design, North Central High School Phase II Modernization**", report number **2562-020-04** by GeoEngineers dated September 4, 2015 and "**Geotechnical Engineering Services during Design, North Central High School Phase II Modernization, Black Box Classroom**", report number **2562-020-04** by GeoEngineers dated **February 2, 2016** were used for design.

DESIGN SOIL VALUES:

Allowable Foundation Bearing Pressure	3000	PSF – Conventional Foundations at Addition
Allowable Foundation Bearing Pressure	6000	PSF – Conventional Foundations at Black Box
Passive Lateral Pressure	250	PSF/FT
Active Lateral Pressure (unrestrained).....	30	PSF/FT
Coefficient of Sliding Friction.....	0.40	

Micropiles.....Bidder Designed, Reference Foundation plans for loading information

SHEET S1.02, STRUCTURAL GENERAL NOTES:

CHANGE: the REINFORCED UNIT MASONRY section in its entirety.

CHANGE: Under METAL ROOF AND FLOOR DECK, under CONCRETE FILL, change the WWF note to WWF 6x6-W2.9xW2.9.

ADD: Under COLD-FORMED STEEL FRAMING add the following section:

COLD FORMED STEEL CONNECTORS: Shall be "Strong Tie" by Simpson Company as specified in their latest catalog. Alternate connectors by other manufacturers may be substituted provided they have current ICC approval for equivalent or greater load capacities and are reviewed and approved by the SER prior to ordering. Connectors shall be installed per the manufacturer's instructions.

SHEET S3.00, FIELD LEVEL AREA B - EAST:

ADD: Detail reference 1/S4.04 along grid K between grids EF and 6.

- 1 **REVISE:** Location of footing step and graphical representation of the foundations at the west end
2 of the building north of grid 6.
3
4 **ADD:** Pile cap, pier and pile tie at the east entry north of grid 6.
5
6 **REVISE:** The pile cap schedule.
7
8 **REMOVE:** Solid grout existing CMU wall full height note.
9
10 SHEET S3.01, LEVEL 1 FOUNDATION PLAN – AREA B:
11
12 **REVISE:** Grade beam callout at grid N between grids 7 and 8.
13
14 **ADD:** Stemwall and footing at the east entry between grids E and F, north of grid 6.
15
16 **ADD:** Pilaster size and reinforcing for the W14 column at grid 6, east of grid E.
17
18 **REVISE:** At the note between grids EF and 6 east of grid D, revise the note “#6 Vert @ 12” oc & #5
19 Horiz @ 12” oc (4) sides (2) Places at Piers.”
20
21 **REVISE:** The pile cap schedule and footing schedule.
22
23 SHEET S3.02, LEVEL 1 FOUNDATION PLAN – AREA A:
24
25 **ADD:** Dimensions locating the vertical micropiles. Add the horizontal micropiles and the
26 dimensions to locate them.
27
28 **ADD:** Foundation plan notes and add plan note 11 and change Typical Details to plan note 12.
29
30 **REVISE:** Revise note “22” conc pier ...(sets of 3) 3 @ 3” oc...”.
31
32 **REVISE:** At Grid 12, Revise T/Ftg = 96'-2 1/2".
33
34 SHEET S3.03, COMMONS LEVEL FLOOR FRAMING & FOUNDATION PLAN:
35
36 **ADD:** Between grids D and E and 6 to 7, add section cut 19/S4.05, the note for the 12” wall and the
37 top of wall elevations where the new slab is infilling an existing opening.
38
39 **ADD:** Dots at beam to column connections for field welding per 17/S5.02.
40
41 SHEET S3.04, LEVEL 3 FLOOR FRAING PLAN:
42
43 **ADD:** At the stair, add slab S1 callout at stair landing, revise detail callout 7/S5.07 to 2/S5.07 and
44 cut detail 7/S5.07 looking south at the stringer and landing beam connection.
45
46 **ADD:** Dots at beam to column connections for field welding per 17/S5.02.
47 SHEET S3.05, ROOF LEVEL FRAMING PLAN:
48
49 **DELETE:** At the W14x26 callout and the 20k callout between grids EF, east of grid J, delete the note
50 6'-0” oc max.
51
52 **REVISE:** Revise note “Fall Restraint per 6/S5.06 sim” at the skybridge between grids 3 and 4, south
53 of grid D.
54
55 **ADD:** Dots at beam to column connections for field welding per 17/S5.02.

1 SHEET S4.01, FOUNDATION DETAILS:
2

3 **CHANGE:** Detail 13. Change the anchor bolt note to "(4) 3/4" diameter A36 AB's w/....."
4

5 **REVISE:** Detail 5. Revise detail 5 to be a detail for the Stemwall at Bench.
6

7 SHEET S4.03, FOUNDATION DETAILS:
8

9 **REVISE:** Detail 2. Revise 8" typ to 6" typ for top of wall elevation below top of slab.
10

11 **REVISE:** Detail 4. Revise the note "1/2" diameter threaded rod ea side of column & at 12" oc, embed
12 6" in adhesive."
13

14 **REVISE:** Detail 12 in its entirety.
15

16 SHEET S4.04, FOUNDATION DETAILS:
17

18 **ADD:** Detail 11. Add Note in lower left corner "Single mat reinforcing at similar. Concrete slab and
19 reinforcing per 19/S4.05 at similar."
20

21 **REVISE:** Detail 14. Revise the note "Additional information per 8/S4.02."
22

23 **ADD:** Detail 20. Add Note "Cont pile tie reinf thru slab. Not shown for clarity." And revise
24 dimensional leader extent for the grade beam depth.
25

26 SHEET S4.05, FOUNDATION DETAILS:
27

28 **ADD:** Add Detail 19.
29

30 **REVISE:** Detail 5. Delete the note T/Pier = 100'-0"
31

32 **REVISE:** Detail 10. Revise the note to T/Pier = 100'-1"
33

34 SHEET S5.03, FRAMING DETAILS:
35

36 **REVISE:** Detail 2. Revise the note " 1 1/2 x 43 mil taut horiz flat strap @ third points ..." and delete
37 note 3.
38

39 SHEET S5.05, FRAMING DETAILS:
40

41 **CHANGE:** Detail 5. Change the centerline of truss webs to the dimensions shown clouded in the
42 detail.
43

44 SHEET S5.07, FRAMING DETAILS:
45

46 **CHANGE:** Detail 4. The Plate 1/2" for the connection of the Channel to the column should be a knife
47 plate.
48

49 SHEET S6.01, BRACED FRAME ELEVATIONS:
50

51 **REVISE:** Detail 15 AND 19. Revise the detail callout 15/S4.04 to 5/S4.04.
52

53 **REVISE:** Detail 16. Revise the note to read "Completed truss to have 2" camber at mid-span."
54

55 **REVISE:** Detail 20. Revise the detail callout 20/S6.01 to 19/S6.10.

1
2
3

END OF STRUCTURAL ADDENDUM NO. 4

1 This Addendum is hereby made a part of the Contract Documents to the same extent as though it were
2 originally included therein.

3
4 FOODSERVICE

5 **Specifications:**

6
7 EQUIPMENT LIST, Page 10:

8
9 **DELETE:**

10 Item: 16 Work Table
11 Qty: 1
12 Manufacturer: Advance Tabco
13 Model Number: SS-488
14 Remarks: Double Overshelf/ Pot Rack, Mid-mount, Adjustable w/ 2 Ea. – SS-2020 Drawers
15

16 **ADD:**

17 Item: 16 Work Table
18 Qty: 1
19 Manufacturer: Advance Tabco
20 Model Number: SS-487
21 Remarks: Double Overshelf/ Pot Rack, Mid-mount, Adjustable w/ 2 Ea. – SS-2020 Drawers
22

23 **Drawings:**

24
25 SHEET FS101, FOODSERVICE PLAN:

26
27 **CHANGE:** Relocate Item 15, Mixer and replace Item 16, Work Table as shown on the attached
28 clarification drawing CK-01.

29
30 SHEET FS102, FOODSERVICE EQUIPMENT SCHEDULE:

31
32 **CHANGE:** Item 16, Work Table- Model to #SS-487 as shown on the attached clarification drawing
33 CK-02.

34
35 **CHANGE:** Item 18, Mixer- Electrical Remarks from CO mounted on Work Table to Drop Cord as
36 shown on the attached clarification drawing CK-02.

37
38 SHEET FS103, FOODSERVICE ELECTRICAL PLAN:

39
40 **CHANGE:** Relocate Item 15, Mixer junction box and change electrical connection for Item 18, Mixer
41 as shown on the attached clarification drawing CK-03.

42
43 SHEET FS105, FOODSERVICE ELEVATIONS:

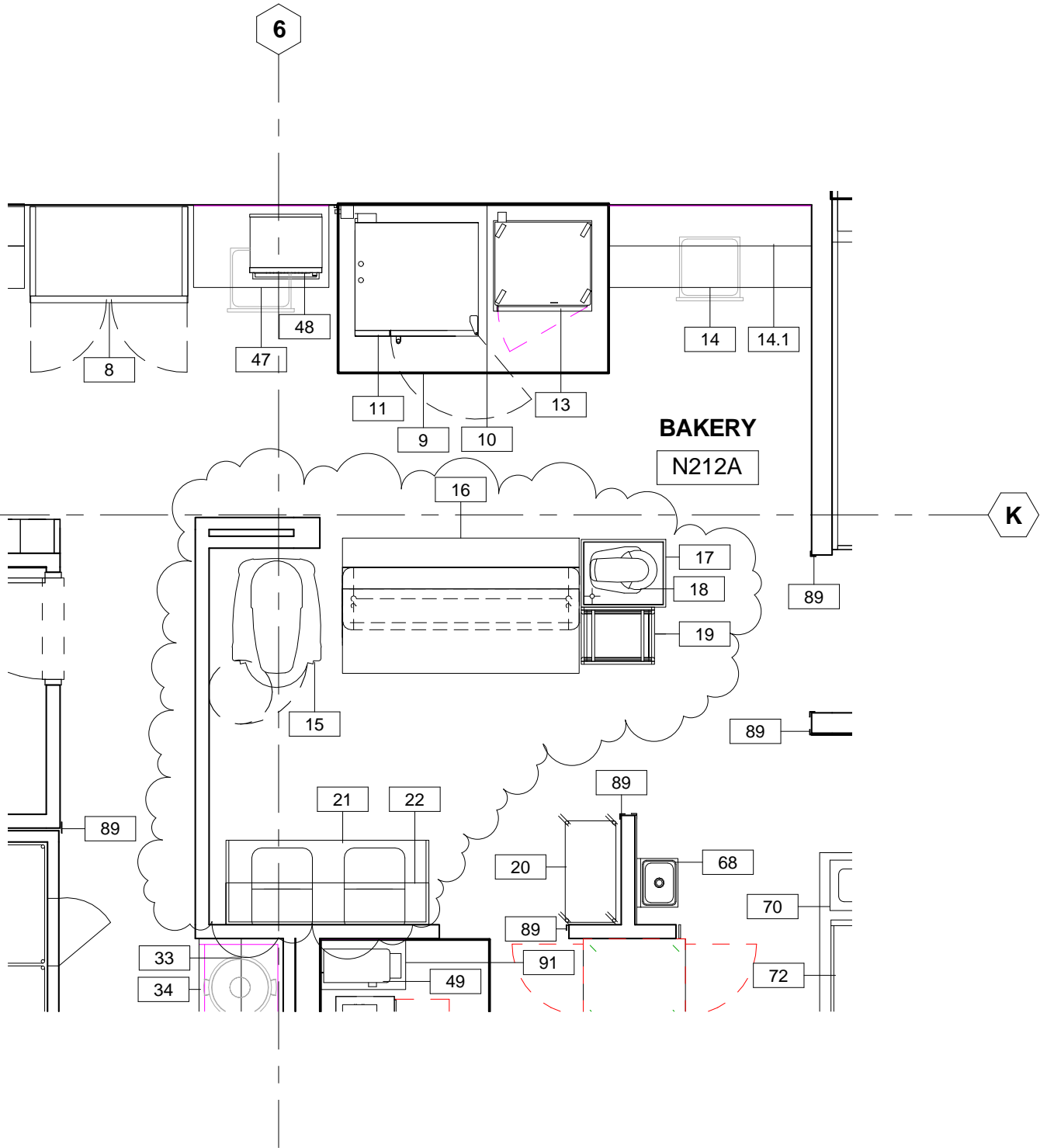
44
45 **CHANGE:** Change Elevations 2- Bakery South
46 and 4- Prep as shown on the attached clarification drawing CK-04.

1 SHEET FS106, FOODSERVICE ELEVATIONS:
2

3 **CHANGE:** Change Elevation 1- Kitchen as shown on the attached clarification drawing CK-05.
4

5

6 END OF FOODSERVICE ADDENDUM NO. 4



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SPOKANE PUBLIC SCHOOL DISTRICT NO. 81
**NORTH CENTRAL HIGH SCHOOL -
 PHASE 2**

1600 NORTH HOWARD STREET, SPOKANE, WA 99205

NAC
 ARCHITECTURE
 nacarchitecture.com

1203 WEST RIVERSIDE AVE
 SPOKANE WA 99201
 P:509.838.8240

NAC NO 111-15017
 FILE
 DRAWN CR
 CHECKED SCP
 DATE 03/02/16

CK1

RE: FS101

ADDENDUM 4

Equipment Schedule Revision													
Item Number	Quantity	Description	Manufacturer	Model	Volts	Phase	FL Amps	Watts	HP	Electric Connection Type	Conn Plug	Elec Conn RI Height	Electrical Remarks
	40												
1	1	Mop Sink	By G.C.										
2	1	Washer/ Dryer	By G.C.										
3	1	Hand Sink	Advance Tabco	7-PS-90									
4	1	Utility Sink	Advance Tabco	93-61-18--18L									
4.1	1	Wall Mount Faucet	T&S Brass	B-0231									
5	1	Wall Shelf	Advance Tabco	WS-15-96									
6	1	Work Table	Advance Tabco	KMS-305									
7	1	Lockers	By G.C.										
8	1	Refrigerator/Freezer	Delfield	SSDFL2-S	120 V	1	8.00 A		3/4		14-20P	7' - 0"	120/208V
9	1	Exhaust Hood, Type II	CaptiveAire	6030 VHB-G-PSP-F	120 V		15.00 A			Direct		9' - 2"	
10	1	S/S Wall Flashing	Stainless Steel	Custom									
11	1	Combi Oven- Double Stacked	Alto-Shaam (Existing)	(2)7.14ES//SK/Simple	208 V	3	38.50 A	13900 W		Direct		1' - 0"	Second Connection at 3' 6"
11 Alternate	1	Combi Oven- Double Stacked	Alto-Shaam	CTC7-20E/CTC7-20E	208 V	3	45.70 A	17000 W		Direct		1' - 0"	Second Connection at 3' 6"
12	2	6 Gallon Kettle	Cleveland	KET-6-T	208 V	3	17.00 A	6100 W		Direct		2' - 0"	
12.1	2	Equipment Stand	Cleveland	ST-28									
13	1	Retherm Oven	Cres Cor	RO-151-F-1332DE	208 V	3	33.30 A	12000 W		Cord and Plug	6-50P	4' - 0"	
14	1	Work Table	Advance Tabco	KMS-306									
14.1	1	Wall Shelf	Advance Tabco	WS-15-72									
15	1	80 Qt. Mixer	Hobart (Existing)	M802	208 V	3	10.80 A		3	Direct		4' - 0"	
15 Alternate	1	60-Qt Mixer	Hobart	HL600-1STD	208 V	3	10.00 A	2080 W	2.7	Direct		4' - 0"	
16	1	Work Table w/ Double Shelf/ Pot Rack	Advance Tabco	SS-487									
17	1	Mixer Stand	Existing										
17 Alternate	1	Mobile Mixer Stand	Advance Tabco	MX-SS-302									
18	1	20-Qt Mixer	Hobart (Existing)		120 V	1	8.00 A		1/2	Cord and Plug	5-15P	7' - 0"	Drop Cord
18 Alternate	1	20-Qt Mixer	Hobart	HL200-1STD	120 V	1	8.00 A		1/2	Cord and Plug	5-15P	7' - 0"	Drop Cord
19	1	Pan Rack	Advance Tabco	PR20-3W									
20	1	Mobile Shelving	Metro	A336BC									
21	1	Baker's Table	Duke	336									
22	1	Wall Shelf	Advance Tabco	WS-15-72									

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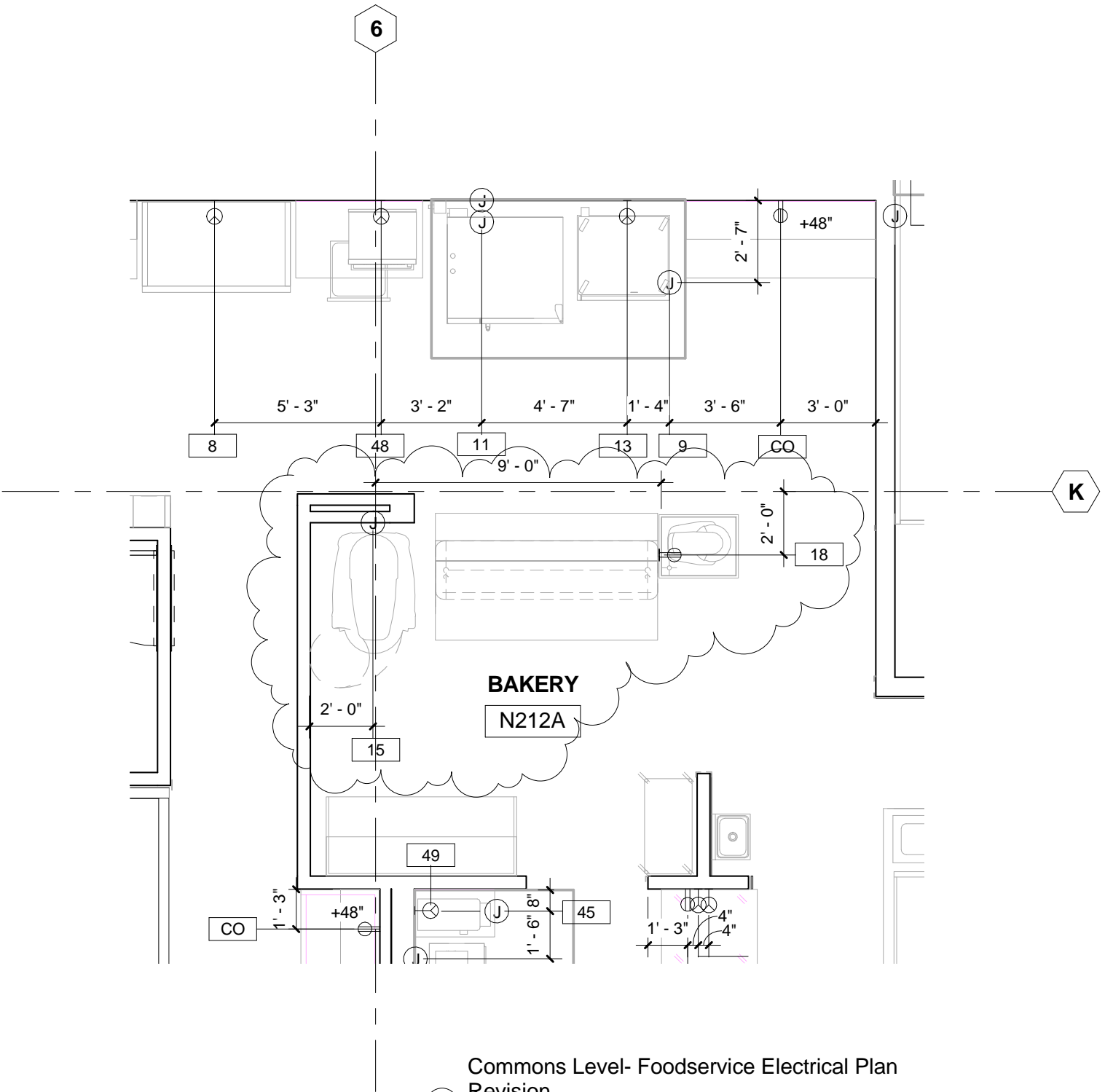
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 SPOKANE, WA 99201
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NAC NO. 111-15017
 FILE
 DRAWN CR
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 DATE 03/02/16

CK2

RE: FS102

ADDENDUM 4



Commons Level- Foodservice Electrical Plan
Revision

1/4" = 1'-0"

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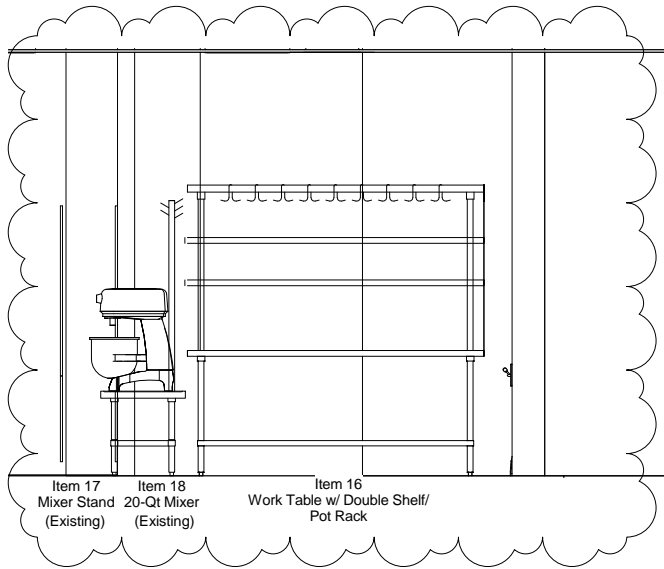
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CHECKED SCP
DATE 03/02/16

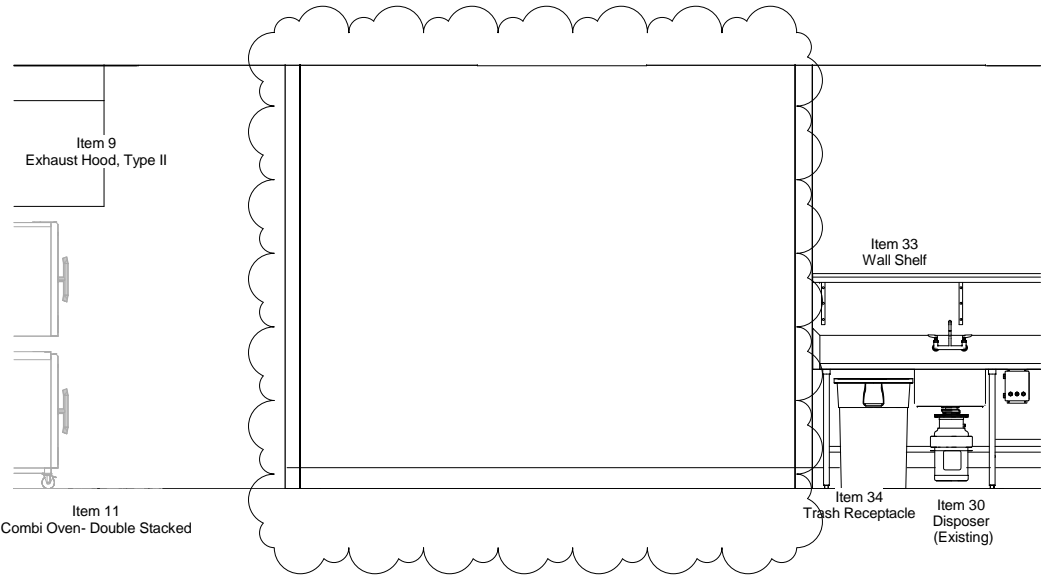
CK3

RE: FS103

ADDENDUM 4



① Elevation- Bakery- South Revision
3/8" = 1'-0"



② Elevation- Prep Revision
3/8" = 1'-0"

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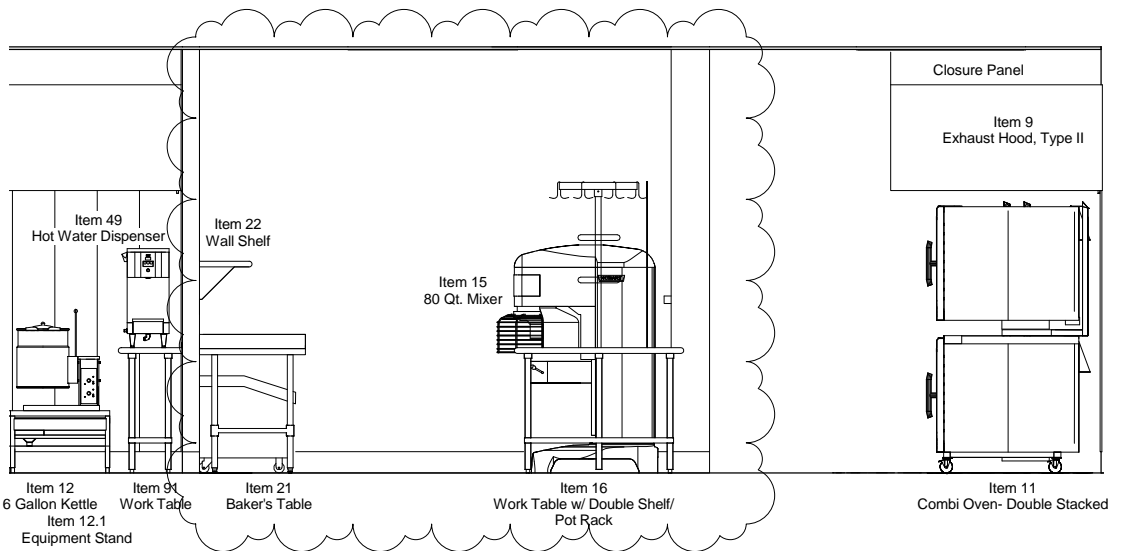
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CK4

RE: FS105

ADDENDUM 4



① Elevation- Kitchen Revision
 3/8" = 1'-0"

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 FILE
 DRAWN CR
 CHECKED SCP
 DATE 03/02/16

CK5

RE: FS106

ADDENDUM 4

1 This Addendum is hereby made a part of the Contract Documents to the same extent as though it were
2 originally included therein.

3
4 MECHANICAL

5 **Specifications:**

6
7 None.

8
9 **Drawings:**

10 SHEET M3.01, LEVEL 1 – AREA A - HVAC:

11
12
13 **ADD:** To 48x18 exhaust air ductwork located in the Black Box, Room 024A, the following notation;
14 “Exhaust air ductwork shall be constructed of a minimum 18 gauge sheet metal, in order to provide
15 additional acoustic attenuation for control of break-out noise”.

16
17 **Prior Approvals:**

18
19 The following products are approved for bidding subject to review and approval of Submittals and provided
20 the Manufacturer meets all the requirements of the originally specified product. It shall be the initiator's
21 responsibility to ensure that the proposed substitution is equal in every respect to the originally specified
22 product, including but not limited to finish, size, weight, clearances, durability, maintenance, ease of operation,
23 performance criteria, etc.

24

Specification Section	Item	Manufacturer
23 31 00 – Ducts	Duct Fabrication – Shop Fabricated Fittings and Spiral Ductwork	ACI Northwest, Inc. Tyco Mechanical Apollo Sheet Metal
23 33 00 – Duct Accessories	OSA Valves	York/JCI
23 75 13 – Packaged Rooftop DX AC Unit	Rooftop AC Units	Valent
23 82 19 – Fan Coils	Fan Coil Units	AMI/Johnson Controls

25
26
27 END OF MECHANICAL ADDENDUM NO. 4

1 This Addendum is hereby made a part of the Contract Documents to the same extent as though it were
2 originally included therein.

3
4 ELECTRICAL

5
6 **Specifications:**

7
8 SECTION 26 05 36, CABLE TRAYS:

9 REPLACE: Specification in its entirety. Refer to the attached.

10
11 SECTION 26 63 20, ELECTRIC HEAT-TRACING CABLES:

12 ADD: Section in its entirety. Refer to attached.

13
14 SECTION 26 51 00, INTERIOR LIGHTING:

15 REVISE Line A(1) of PART 2.5: "LED fixtures: 1% or six (6) whole fixtures, whichever is greater,
16 of each type and size."

17
18 SECTION 26 56 23, EXTERIOR LIGHTING:

19 REVISE Line A(1) of PART 2.6: "LED fixtures: 1% or six (6) whole fixtures, whichever is greater,
20 of each type and size."

21
22 SECTION 27 51 11 CLASSROOM SOUND SYSTEMS:

23 ADD Line J to PART 2.1:

24 J. Factory-terminated Cables

- 25 1. Cables shall have threaded connectors with pulling eye
26 2. After removal of pulling eyes, cables that thread into factory-terminated faceplates and
27 connectors
28 3. Cable configurations shall be one of the following and provide the audio/video circuits
29 indicated on the Drawings:
30 a. Rapid Run PC/Video runner, CMP rated
31 b. Rapid Run multimedia runner, CMP rated
32 c. Rapid Run digital runner, CL-2 rated

33
34 ADD Line K to PART 2.1:

35 K. Factory-terminated Faceplates and Connectors:

- 36 1. RapidRun Decora-style faceplates with factory-installed connectors
37 2. Faceplates shall have ivory finish
38 3. Quantities and types of connectors as indicated on the Drawings.

39
40 ADD Line L to PART 2.1:

41 L. Field-terminated Faceplates and Connectors:

- 42 1. Stainless steel device plates as specified in Section 26 05 51.
43 2. Connectors to match factory-terminated connectors

44
45 ADD Line M to PART 2.1:

46 M. Cables:

- 47 1. Multi-conductor with overall jack
48 2. RapidRun cables with factory-installed connectors.
49 a. 50' – 100' Plenum runner cable.
50 b. VGA + 3.5mm decora wall plate end.
51 c. VGA + 3.5mm Flying lead 1.5'.

- d. Component decora wall plate end.
- e. Component Flying lead 1.5'.
- 3. Audio/video circuits as indicated on the Drawings.

SECTION 27 51 15 DISTRIBUTED SOUND REINFORCEMENT SYSTEMS:

REVISE Line B(8) to PART 2.1: "Equivalent to Biamp Nexia CS."

ADD Line D(8) to PART 2.1: "Provide with wireless passive antenna splitter/combiner Shure UA221."

ADD Line K to PART 2.1:

K. Commons Amplifier

- 1. Amplifier shall be sized to provide optimal output of specified speakers and allow for 20% head room.
- 2. Shall be equivalent to Crown CT series.

SECTION 28 16 13, INTRUSION DETECTION SYSTEM:

ADD Line D to PART 1.2: "Intrusion system shall monitor temperature alarm for kitchen freezer and cooler via (2) temperature sensors, (1) for freezer and (1) for the cooler."

ADD Line E to PART 1.2: "Intrusion system shall monitor cold room temperature alarm for classrooms via (1) temperature sensor per classroom."

ADD Line F to PART 1.2: "Intrusion system shall monitor fire alarm panel outputs for alarm, trouble, and supervisory statuses."

SECTION 28 31 13, FIRE ALARM SYSTEM:

ADD Line F to PART 1.2: "The Fire Alarm System shall provide contact closures of alarm, trouble, and supervisory statuses for monitoring by the Intrusion Detection Control Panel."

Drawings:

SHEET E0.01, ELECTRICAL SYMBOLS, ABBREVIATIONS, & CODED NOTES:

REVISE: Wall Switch Occupancy Sensor to include subscript "D" which is a 0-10V dimming occupancy sensor. See attached clarification drawing CE-01.

REVISE: Coded note reference in "Electrical Symbols" to reference Sheet E0.01.

REVISE: Coded note #L2 in "Electrical Coded Notes" to replace "Dowell" with "Dowell/Drill."

REVISE: Coded note #D1 in "Electrical Coded Notes" to: "Replace fiber and raceway completely to replace existing fiber run and raceway. Coordinate shut-down with SPS prior to demolition by generating a scheduled plan."

SHEET E1.02, SITE DETAILS:

DELETE: Coded note #P28 from 'Utility Yard' detail.

SHEET E2.01, LEVEL 1 FLOOR PLAN – AREA B - LIGHTING:

1 ADD: Homerun for interior emergency lighting at entry west and east entry lobby areas from circuit
2 2HXB:3.

3
4 ADD: (2) Daylight sensors and associated programming and terminations to East Entry Lobby
5 N101 daylight zone.

6
7 REVISE: R08 fixture in elevator machine room to be powered via circuit 2HXB:3.

8
9 ADD: (1) C02 fixture to elevator pit directly across from C02 fixture indicated on plans. Added
10 C02 fixture to be powered via circuit 2HXB:3.

11
12 REVISE: All Z01 fixtures at east entry to be powered via circuit 2HXB:1.

13
14 SHEET E2.02, LEVEL 1 FLOOR PLAN – AREA A - LIGHTING:

15 ADD: (1) single-port data outlet at +46” for future lighting control panel in Black Box 024A at
16 “FRESCO CTL MODULE.”

17
18 ADD: (1) single-port data outlet at +46” for future lighting control panel in TV Studio 024B at
19 “FRESCO CTL MODULE.”

20
21 ADD: enclosure and (6) ¾”C from enclosure to accessible ceiling for future lighting control
22 module, branch circuiting, and control wiring in Black Box 024A at “FRESCO CTL MODULE.”
23 Provide enclosure type Hoffman #A-10N104.

24
25 ADD: enclosure and (6) ¾”C from enclosure to accessible ceiling for future lighting control
26 module, branch circuiting, and control wiring in TV Studio 024B at “FRESCO CTL MODULE.”
27 Provide enclosure type Hoffman #A-10N104.

28
29 ADD: “Mount at 12’ AFF unless otherwise noted” to fixture type Z02.

30
31 ADD: Fixture type C02B: Self ARROW-45-40K-110-S-C0.

32
33 REVISE: MECHANICAL EQUIPMENT SCHEDULE – PHASE 2 line item “AHU-C1
34 LIGHT/CTL” to have MMS rather than fused disconnect switch.

35
36 SHEET E2.03, LEVEL 2 FLOOR PLAN – LIGHTING:

37 ADD: Wall Switch Occupancy Sensor to include subscript “D” in rooms N212F and N213A. See
38 attached clarification drawing CE-02.

39
40 ADD: (2) Fixture type C02B to display/POS counter in DECA N213C.

41
42 REVISE: Rooms N218, N216, N214 to be on circuit 2HXB:7.

43
44 SHEET E2.04, LEVEL 3 FLOOR PLAN - LIGHTING:

1 REVISE: Update location of lighting in Commons N201. See attached clarification drawing CE-
2 03.

3
4 SHEET E3.02, LEVEL 1 FLOOR PLAN – AREA A - POWER:

5 ADD: Detail #1 to plans via CE-09.

6
7 ADD: Detail #2 to plans via CE-10.

8
9 SHEET E3.05, FLOOR PLAN LEVEL 2 – AREA B - POWER:

10 ADD: 120V power circuit for AHU-C1 for heat trace cabling. Provide 1P-20A GFCI breaker in
11 Panel 3LC and (2)#12, (1)#12 GND, in ¾”C. Refer to Mechanical Plans for lengths of piping runs
12 that require heat trace.

13
14 ADD: 120V power circuit for RTU-C1 for heat trace cabling. Provide 1P-20A GFCI breaker in
15 Panel 3LC and (2)#12, (1)#12 GND, in ¾”C. Refer to Mechanical Plans for lengths of piping runs
16 that require heat trace.

17
18 SHEET E4.02, LEVEL 1 FLOOR PLAN – AREA A - SYSTEMS:

19 REVISE: Single-gang receptacle and data outlet pair adjacent to the whiteboard to +30”AFF in the
20 following rooms for future smart board locations: 023A, 023B, 023C, 024B, N213, N209, N317,
21 N319, and N303.

22
23 ADD: “AV0” location adjacent to single-gang receptacle and data outlet pair adjacent to the
24 whiteboard at +30”AFF in the following rooms for future smart board locations: 023A, 023B,
25 023C, 024B, N213, N209, N317, N319, and N303. AV0 is (1) 1”C stubbed to ceiling and down to
26 +30”AFF with pull string and plates for future AV cabling.

27
28 SHEET E4.03, LEVEL 2 FLOOR PLAN – AREA B - SYSTEMS:

29 REVISE: Single-gang receptacle and data outlet pair adjacent to the whiteboard to +30”AFF in the
30 following rooms for future smart board locations: 023A, 023B, 023C, 024B, N213, N209, N317,
31 N319, and N303.

32
33 ADD: “AV0” location adjacent to single-gang receptacle and data outlet pair adjacent to the
34 whiteboard at +30”AFF in the following rooms for future smart board locations: 023A, 023B,
35 023C, 024B, N213, N209, N317, N319, and N303. AV0 is (1) 1”C stubbed to ceiling and down to
36 +30”AFF with pull string and plates for future AV cabling.

37
38 SHEET E4.04, LEVEL 3 FLOOR PLAN – AREA B - SYSTEMS:

39 REVISE: Single-gang receptacle and data outlet pair adjacent to the whiteboard to +30”AFF in the
40 following rooms for future smart board locations: 023A, 023B, 023C, 024B, N213, N209, N317,
41 N319, and N303.

42
43 ADD: “AV0” location adjacent to single-gang receptacle and data outlet pair adjacent to the
44 whiteboard at +30”AFF in the following rooms for future smart board locations: 023A, 023B,
45 023C, 024B, N213, N209, N317, N319, and N303. AV0 is (1) 1”C stubbed to ceiling and down to
46 +30”AFF with pull string and plates for future AV cabling.

47

1 SHEET E5.01, ENLARGED FLOOR PLANS:

2 RELOCATE: LCP-1 to south wall of Electrical N219 on STORAGE RM – ENLARGED PLAN
3 #5.

4
5 ADD: Coded note #P4 to transformer T-X2 and T-Y2 in Electrical N219 on STORAGE RM –
6 ENLARGED PLAN #5.

7
8 SHEET E5.02, KITCHEN ENLARGED PLAN:

9 REVISE: Kitchen plan, schedule, and Satelite Serving Plan as indicated on CE-05.

10
11 SHEET E6.01, POWER ONE-LINE DIAGRAM – NORTH:

12 REVISE: Panel “2HB” to “3HB” on the “FAULT CURRENT TABLE.”

13
14 ADD: AHU-C1 rating of 7,800 AIC on the “FAULT CURRENT TABLE.” Provide rated
15 equipment disconnects, controllers, and mechanical equipment per 10,000 AIC minimum rating.

16
17 ADD: RTU-C1 rating of 6,000 AIC on the “FAULT CURRENT TABLE.” Provide rated
18 equipment disconnects, controllers, and mechanical equipment per 10,000 AIC minimum rating.

19
20 ADD: Chiller #2 rating of 18,000 AIC on the “FAULT CURRENT TABLE.” Provide rated
21 equipment disconnects, controllers, and mechanical equipment per 22,000 AIC minimum rating.

22
23 SHEET E6.05, PANEL SCHEDULES:

24 REVISE: Panel schedule 2LB indicated on CE-11.

25
26 SHEET E7.01, OVERALL FLOOR PLANS:

27 ADD: Cabling and programming as required to existing sound system for MUTE function via Fire
28 Alarm System at existing Gym N101.

29
30 ADD: Cabling and programming as required to existing sound system for MUTE function via Fire
31 Alarm System at existing Wrestling N024.

32
33 ADD: Cabling and programming as required to existing sound system for MUTE function via Fire
34 Alarm System at existing Band room at south end of school.

35
36 ADD: Cabling and programming as required to existing sound system for MUTE function via Fire
37 Alarm System at existing Choir room at south end of school.

38
39 SHEET E7.03, INTERCOM / SECURITY / CCTV DETAILS:

40 ADD: Detail #13 to plans via CE-06.

41
42 SHEET E7.04, A/V DETAILS AND DIAGRAMS:

43 ADD: Detail #12 to plans via CE-08. CE-08 applies to ENLARGED PLAN #5 – STORAGE RM
44 on Sheet E5.01.

45

1 SHEET E7.05, LIGHTING CONTROL DIAGRAMS:

2 DELETE: Detail #2 “Emergency Lighting Control.”

3
4 REVISE: Detail #6 “Generic Lighting Control Diagrams.” See attached clarification drawing CE-
5 04.

6
7 SHEET E7.06, TELECOMMUNICATION DETAILS:

8 ADD: Detail #11 to plans via CE-07.

9
10
11 **Prior Approvals:**

12
13 The following products are approved for bidding subject to review and approval of Submittals and provided
14 the Manufacturer meets all the requirements of the originally specified product. It shall be the initiator's
15 responsibility to ensure that the proposed substitution is equal in every respect to the originally specified
16 product, including but not limited to finish, size, weight, clearances, durability, maintenance, ease of
17 operation, performance criteria, etc.

18
19 N/A

20
21
22 END OF ELECTRICAL ADDENDUM NO. 4

SECTION 26 05 36 – CABLE TRAYS

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 specification sections, apply to work specified in Division 26.
- B. Requirements in each of the Division 26 specification sections apply to every other Division 26 section whether specifically referenced or not.

1.2 SUMMARY

- A. Provide cable trays to support communications cabling as indicated on the Drawings.
- B. Cable trays shall be installed above accessible ceiling.

1.3 SUBMITTALS

- A. Product Data: For each type of wall duct provided on the Project. Include materials, finishes and dimensions.

PART 2 - PRODUCTS

2.1 CABLE TRAY

- A. General:
 - 1. The cable tray systems shall be an assembly of metallic cable tray sections and accessories that form a rigid structural system to support cables. The system shall be in compliance with the latest publications of NEMA VE-1 and the National Electrical Code. Cable trays shall be UL classified as equipment grounding conductors.
 - 2. The cable tray system shall comply with IEC 61537, with load span criteria of L/200 (to exceed standard requirements of L/100) and a Safety Factor of 1.7. Trays shall be capable of supporting an allowable working load of at least 730 N/m (50 pounds per lineal foot) when supported at intervals no greater than 1.83 m (72 in) on center.
 - 3. The cable tray system shall present no sharp edges, burrs, or projections which can damage cable insulation.
 - 4. Straight sections shall be 3 to 4 meters (118 in to 157 in) in length.
 - 5. Provide all miscellaneous mounting and installation hardware including splice plates, drop-outs, hold-down clips, drop-out bushings, end plates, conduit clamps, wall brackets, and trapeze hangers.
 - 6. Splice plates shall be bolted type.
 - 7. Drop-outs shall have minimum radius of 102 mm (4 in).
 - 8. Drop-out bushings shall snap into openings in bottom of ventilated trough.

- B. Solid Trough Tray: Solid trough cable tray shall consist of two longitudinal side rails and a solid corrugated bottom welded to the side rails. Fittings shall be of the same construction and design as straight sections.
1. Tray size shall be as follows unless otherwise noted:
 - a. 24"W x 4" loading depth
 2. Inside bend radius shall be:
 - a. 610 mm (24 in)
 3. The peaks of the corrugated bottom shall have bearing surfaces at least 70 mm (2¾ in) wide located no more than 152 mm (6 in) on center.
 4. Vertical offsets shall be made with hinged, adjustable splice plates.
 5. Trays shall be manufactured of:
 - a. Galvanized steel hot dipped galvanized after fabrication.

2.2 CABLE RUNWAY

- A. General:
1. The cable runway systems shall be an assembly of metallic ladder runway sections and accessories that form a rigid structural system to support cables. Cable runway shall be in compliance with the National Electrical Code, and shall be UL classified as equipment grounding conductors.
 2. The cable tray system shall comply with IEC 61537, with load span criteria of L/200 (to exceed standard requirements of L/100) and a Safety Factor of 1.7. Trays shall be capable of supporting an allowable working load of at least 730 N/m (50 pounds per lineal foot) when supported at intervals no greater than 1.83 m (72 in) on center.
 3. Cable runway shall be compatible with communications equipment racks and shall be attached directly to the top of the racks using brackets designed for the purpose.
 4. The cable runway shall present no sharp edges, burrs, or projections which can damage cable insulation.
 5. Straight sections shall be 1.8 to 3.0 meters (71 in to 118 in) in length.
 6. Provide all miscellaneous mounting and installation hardware including splice plates, drop-outs, hold-down clips, drop-out bushings, end plates, conduit clamps, wall brackets, and trapeze hangers. Splice plates shall be bolted type. Drop-outs shall have minimum radius of 102 mm (4 in).
 7. Drop-out bushings shall snap into openings in bottom of ventilated trough.
- B. Tubular Runway: Ladder runway shall consist of two longitudinal tubular steel side rails between which transverse steel channel rungs are welded near the top plane of the side rails.
1. Top of rungs shall be approximately 6 mm (¼ in) below the top of the side rails.

2. Rungs shall be spaced 229 mm (9 in) on center, except where the width of the runway is 305 mm (12 in) or less, in which case rung spacing may be 305 mm (12 in) on center.
3. Rungs shall have rolled edges and a minimum cable bearing surface at least 19 mm ($\frac{3}{4}$ in) wide.
4. Side rails shall have radiused edges.
5. Vertical offsets shall be made with hinged, adjustable splice plates.
6. Cable runways shall have rust-resistant black finish.

2.3 WIRE-BASKET TRAY

- A. Wire Basket Tray: Wire basket cable tray shall consist of a continuous, rigid, 51 mm by 102 mm (2 in x 4 in) wire mesh, surface-treated after manufacture.
1. Tray size shall be as follows unless otherwise noted:
 - a. 12"W x 3" loading depth
 2. Wire mesh cable tray fittings shall be field-fabricated from straight tray sections, in accordance with manufacturer's instructions.
 3. Horizontal and vertical bends shall have a 305 mm (12 in) inside radius.
 4. Splices and connectors shall be formed galvanized steel with plated or stainless steel nuts, bolts and washers, as necessary for a complete, UL-classified, continuously grounded system.
 5. Trays shall be manufactured of ASTM A 510, Grade 1008 carbon steel wire.
 6. Wire Diameter must be adequate to meet application load requirements, but wire diameter may vary to optimize tray strength and to allow tray to remain lightweight.
 7. Surface treatment shall be electrodeposited zinc plating per ASTM B 633, Type III, SC-1, applied after welding and bending of mesh.

2.4 ACCEPTABLE MANUFACTURERS

- A. Acceptable manufacturers shall be as follows:
1. Ladder or Trough Tray: B-Line, Cope, Chalfant, Globetray, M.P. Husky, Mono-Systems, P-W Industries, Thomas & Betts.
 2. Wire Basket Tray: B-Line "Flextray" series, Cope "Cat-Tray" Series, Cablofil "EZ" series, GS Metals "Flextray" series, Mono-Systems "Mono-Mesh" series, WBT LLC "Shaped-Tray" WBT series.
 3. Cable Runway: B-Line, Chatsworth, Homoco.
- B. Substitutions may be considered only when submitted in conformance with Section 26 01 00.

PART 3 - EXECUTION

3.1 TRAY & RUNWAY SELECTION

- A. Cable trays and cable runways shall be suitably sized and supported for the indicated quantity and type of cables. In no case shall the cross-sectional area of cable tray be smaller than the size indicated on the Drawings.
- B. Widths of cable trays and cable runways shall be as noted above or as indicated on the Drawings.
- C. Exposed in communications equipment rooms:
 - 1. Runway type.
- D. Exposed in other spaces :
 - 1. Ventilated trough type.
- E. Concealed above accessible ceilings:
 - 1. Ladder type.

3.2 INSTALLATION

- A. Install in strict accordance with manufacturer's recommendations.
- B. Install cable trays and cable runways in the approximate location shown on the Drawings. Installation shall be coordinated with all mechanical and structural systems and equipment which share the same general location. Provide all horizontal and vertical offsets necessary to avoid conflicts with building construction and building systems components.
- C. Mount bottom of tray at constant elevation above the ceiling system except where vertical offsets are shown or required to accommodate other building components. Cable tray and fittings shall be bolted together using splice plates, carriage bolts and nuts to provide an electrically continuous cable support system. Cable tray shall be bolted to supports. Cable tray supports shall be capable of supporting the same load as the tray. Cable tray supports shall be installed no more than 1.83 m (72 in) on center.
- D. Mount cable runway at an elevation that allows sections of it to be attached directly to the top of the communications equipment racks. Cable runway and fittings shall be bolted together using splice plates, carriage bolts and nuts to provide an electrically continuous cable support system. Cable runway shall be bolted to supports. Cable runway supports shall be capable of supporting the same load as the tray. Cable tray supports shall be installed no more than 1.83 m (72 in) on center.
- E. Support cable tray and cable runway systems in accordance with IEC 61537, with load span criteria of L/200 (to exceed standard requirements of L/100) and a Safety Factor of 1.7. Supports shall comply with the requirements of Section 26 05 29.

- F. Associated raceway stubs shall be attached to side or end of cable tray, utilizing conduit clamps, or bonded to it using bonding jumpers. Refer to Section 26 05 33.
- G. Provide a manufactured cable drop-out at the end of each cable tray run. Provide manufactured drop-out bushings where cables pass through the bottom of ventilated trough tray.
- H. Cable trays shall terminate 254 mm (10 in) from both sides of fire, smoke or acoustical partitions. To provide a path for cables to pass through each such partition that separates sections of cable tray, provide sufficient 102 mm² (4 in²) fire-rated sleeves to equal 140% of the cross-sectional area of the cable tray on either side of the partition. Cable pass-through sleeves shall include a built-in fire-sealing system that automatically adjusts to the amount of cables installed, in accordance with Section 26 05 10. Cable pass-through sleeves shall be mounted higher than the bottom of the cable tray, to facilitate use as a pathway for cables. Bond sleeves to tray system on each side.
- I. Where cable tray passes through seismic and expansion joints, tray on each side of the joint shall be connected with slotted splice plates to allow a minimum of 25 mm (1 in) horizontal movement.
- J. Where the cable tray system is shown to pass through inaccessible spaces, terminate the tray 305 mm (12 in) from both sides of the space and provide conduit raceways with a total cross-sectional area equivalent to the tray between the ends of the tray. Bond raceways to tray system.
- K. Provide grounding conductor running the length of the cable tray and cable runway system and bonded to it periodically in accordance with the requirements of Section 26 05 26.

END OF SECTION 26 05 36

SECTION 26 63 20 – ELECTRIC HEAT-TRACING CABLES

PART 1 - GENERAL

1.1 RELATED REQUIREMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 specification sections, apply to work specified in this section.
- B. Requirements in each of the Division 26 specification sections apply to every other Division 26 section whether specifically referenced or not.

1.2 SUMMARY

- A. Provide a complete system of heat-tracing cable and controls in the locations indicated on the drawings, to provide freeze protection for water piping exposed to cold temperatures.
- B. Test the system as specified herein.

1.3 DESCRIPTION

- A. The heat-tracing system shall consist of a control thermostat, heating cable, power connection kits, splice kits, end seals, and other accessories as required to form a complete, operable system for freeze protection.
- B. Test the system as specified herein.

1.4 OPERATION

- A. The wattage of the heating cable shall be selected, in accordance with the manufacturer's published tables, to deliver sufficient heat to maintain insulated steel pipes filled with water at 4°C (40°F) when subjected to an ambient air temperature of -34°C (-30°F) at a wind speed of 32 km/hour (20 miles per hour). The cable selection shall be based on the pipe size and the insulation thickness of the pipe to be protected.
- B. The system shall be automatically controlled by means of a thermostat; such that the heating cables are energized whenever ambient air temperature below 4°C (40°F).

1.5 SUBMITTALS

- A. Product Data: For each type of heat-tracing cable and control device provided on the Project.
- B. Test Reports: Record of all field test data.

1.6 INFORMATION FOR OPERATING AND MAINTENANCE MANUALS

- A. Submittals: Information submitted for review, up-dated to record any changes.

- B. Maintenance Instructions: List replacement parts, including source. Indicate recommended maintenance procedures, and the intervals involved for each. Indicate application conditions, limitations of use and adjustments. Include manufacturer's installation instructions.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Heat-Tracing Cable for Water Lines: Heat-tracing cable for freeze protection shall be parallel, self-regulating type, suitable for application to pipes under insulation. Cable power output shall vary inversely as temperature and shall deliver 16.4-watts/meter (5-watts/ft) at 10°C (50°F) when cable is dry. Cable shall include a waterproof modified polyolefin dielectric jacket, covered by a grounded tinned-copper braid and a thermoplastic elastomer or modified polyolefin outer jacket. Voltage rating of cable shall be 120 VAC, as required to match the voltage of the circuit as indicated on the Drawings. 120 VAC cable shall be equivalent to Nelson #CLT5-JT series or Raychem #5XL1-CR series.
- B. Heat-Tracing Cable for Fuel Lines: Heat-tracing cable for freeze protection shall be parallel, self-regulating type, suitable for application to pipes under insulation. Cable power output shall vary inversely as temperature and shall deliver 16.4-watts/meter-(5 watts/ft) at 10°C (50°F) when cable is dry. Cable shall include a waterproof modified polyolefin or fluoropolymer dielectric jacket, covered by a grounded tinned-copper braid and a fluoropolymer outer jacket. Voltage rating of cable shall be 120 VAC, as required to match the voltage of the circuit as indicated on the Drawings. 120 VAC cable shall be equivalent to Nelson #HLT5-J series or Raychem #5XL1-CT series.
- C. Thermostats: Outdoor air thermostats shall have contacts rated 10-amps minimum at 120 VAC, with set point adjustable from -9°C (15°F) to 60°C (140°F). Thermostats shall be equivalent to Nelson #TA-4X140 or Raychem #AMC-1A.
- D. Contactors: Magnetic contactors shall be in accordance with Section 26 29 33, equipped with 120 VAC coils. Contact ratings shall equal or exceed the trip rating of the corresponding circuit breaker.

2.2 ACCEPTABLE MANUFACTURERS

- A. Acceptable manufacturers shall be as listed above, and as follows:
 - 1. Heat-tracing Cable: Nelson, Raychem.
 - 2. Thermostats: Nelson, Raychem.
- B. Substitutions may be considered only when submitted in conformance with Section 26 01 00.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install heat-tracing cable in accordance with the manufacturer's recommendations.
- B. Install heat-tracing cable to piping after the pipe has been successfully pressure-tested in accordance with Division 23 and prior to installation of thermal insulation on the piping per Section 22 07 00. Install the cable only after allowing it to warm to room temperature.
- C. Cable shall be installed linearly along the pipe. Cable lay shall conform to the shape of flanges and other heat sinks, in accordance with the manufacturer's recommendations. At each valve, the heating cable shall wrap around the valve and flange in a crossover configuration. Secure the heating cable to the piping with fiberglass tape.
- D. At pipe branches, splice a branch heating cable to the heating cable on the main pipe by means of a suitable tee kit supplied by the cable manufacturer.
- E. At the end of each run of heating cable, provide a suitable end seal supplied by the cable manufacturer.
- F. Provide a weather-proof outlet box at each point of power connection to the heat-tracing cable. Connect the heating cable to the outlet box by means of a suitable power connection kit supplied by the cable manufacturer.
- G. Provide a separate above-grade outlet box for each power connection and each end seal for heat-tracing applied to underground pipe. Provide a separate 27 mm (1" trade size) raceway from the pipe to the outlet box. The raceways shall be water-sealed at the point of cable entry.
- H. Care shall be exercised during cable installation not to damage cable jacket or cable insulation. Damaged cables shall be removed and replaced.
- I. Heat-tracing cable shall be applied to piping only where the pipe is to be thermally insulated in accordance with Section 22 07 00. Underground piping to which heat-tracing cable is applied shall be insulated with closed-cell, waterproof thermal insulation with fire-retardant waterproof covering. Verify that suitable insulation is installed on all heat-traced pipes.
- J. After thermal insulation has been installed, apply labels reading "Electric Traced" on the outside of the thermal insulation wherever heat-tracing cable lies under the insulation. Labels shall be applied no farther apart than 3 m (10 ft) on center.
- K. Provide outdoor air thermostats and magnetic contactors for controlling heat-tracing cable circuits.
- L. Circuits supplying power to the heat-tracing cable shall be protected by circuit breakers equipped with 30 mA ground fault circuit interrupters. Select circuit breaker trip rating based on starting the heat-tracing cable at a temperature of -18°C (0°F).

3.2 ADJUSTMENT & TESTING

- A. Notify the Owner's Representative at least one (1) week in advance of the date of each test, to allow witnessing of the tests.
- B. Supply tools, instruments, gauges, testing equipment, protective devices and safety equipment for adjustment and testing.
- C. During adjustment and testing, carefully record all settings and all test results, including expected test results, actual test results, and corrective actions taken. Records shall be submitted to the Architect's Consultant and included in the Operating & Maintenance Manuals.
- D. Test all system cable after installation and prior to connection to equipment, both before and after insulation of pipes. Tests to be performed shall include, but not be limited to, the following:
 - 1. Conductor continuity
 - 2. D.C. insulation resistance
 - 3. Freedom from shorts and grounds
- E. Minimum insulation resistance shall be 20 megohms, regardless of the heating cable length.
- F. Measure voltage and current at each unit.
- G. Adjust outdoor air thermostats to shut off heat-tracing cable when outdoor temperature exceeds 4°C (40°F).
- H. Correct any deficiencies discovered as a result of the above testing, and completely retest the work affected by such corrections, with no additional compensation.

END OF SECTION 26 63 20

SWITCHING DEVICES

SUBSCRIPTS DENOTE:

- "2" TWO-POLE
- "3" THREE-WAY
- "4" FOUR-POLE
- "AT" AUTO-TRANSFORMER DIMMER
- "D" SOLID-STATE DIMMER
- "K" KEY-OPERATED
- "LD" LOCKDOWN DURESS BUTTON
- "M" MOMENTARY-CONTACT
- "MA" MASTER SWITCH
- "S" SLAVE SWITCH
- "P" PILOT-LIGHT
- "WP" WEATHER-PROOF DEVICE



WALL SWITCH OCCUPANCY SENSOR +46"

"A" DENOTES ABOVE COUNTER, CENTER 4" ABOVE TOP OF COUNTER OR BACKSPLASH



WALL SWITCH +46"

EACH LOWER CASE LETTER DENOTES (1) SWITCH & ORDER OF SW'S

"A" DENOTES ABOVE COUNTER, CENTER 4" ABOVE TOP OF COUNTER OR BACKSPLASH

"D" DENOTES 0-10V DIMMING SWITCH

"LV" DENOTES LOW VOLTAGE MOMENTARY SWITCH



COMBINATION SWITCH & DUPLEX RECEPTACLE +46"



LOW VOLTAGE SWITCH, LETTER IS SWITCH DESIGNATION



SYMBOL DENOTES THE REQUIREMENT FOR OCCUPANCY SENSOR OR SENSORS IN THE ROOM +114"



DAYLIGHT SENSOR

"A" DENOTES SENSOR FOR EMERGENCY FIXTURE & ASSOCIATED LCM



PHOTOCELL



TIME SWITCH

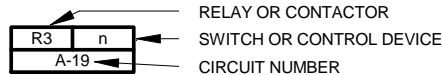


RELAY



LIGHTING CONTROL MODULE ABOVE ACCESIBLE CEILING UNLESS NOTED OTHERWISE

LIGHTING CONTROL DESIGNATION



RELAY OR CONTACTOR

SWITCH OR CONTROL DEVICE

CIRCUIT NUMBER

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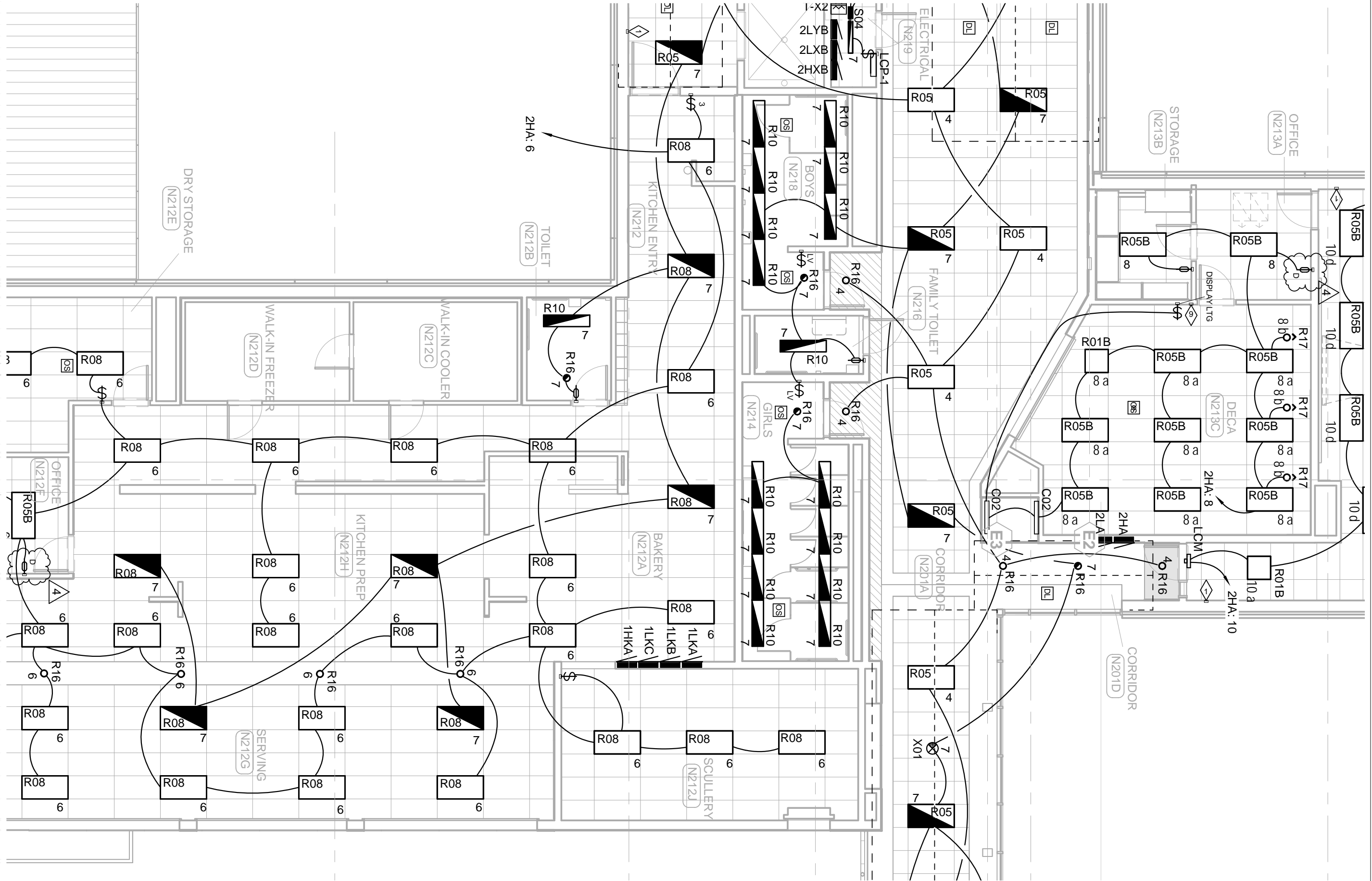
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ADDENDUM #4



LEVEL 2 FLOOR PLAN - LIGHTING

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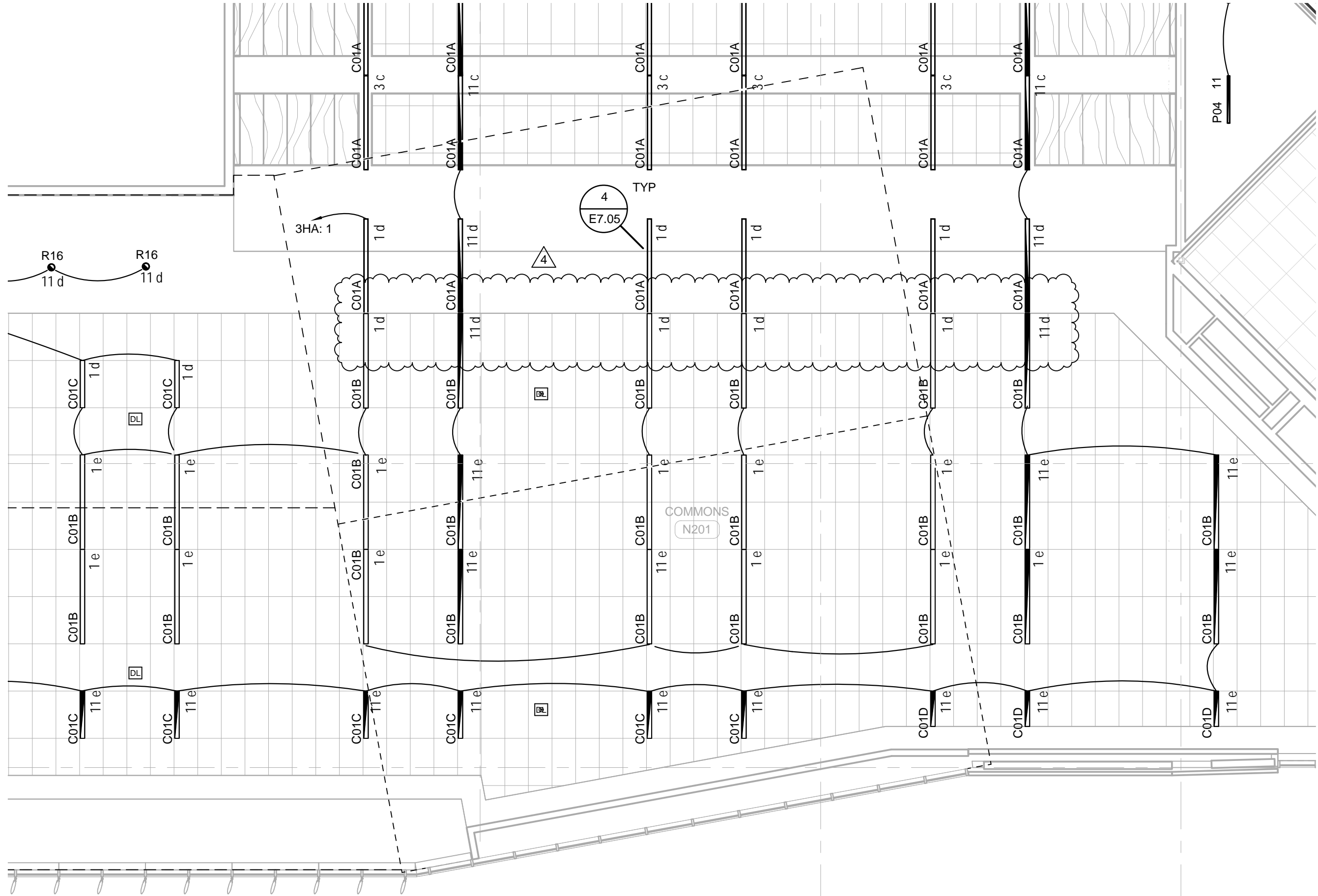
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CE-02

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LEVEL 3 FLOOR PLAN - LIGHTING

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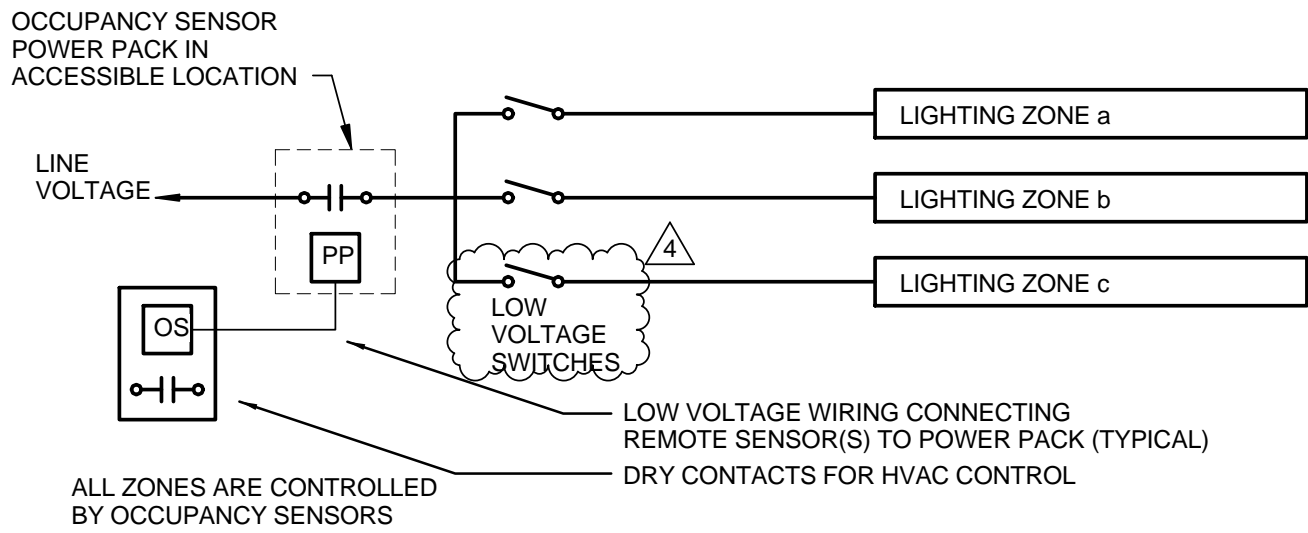
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NAC NO	111-15017
RE:	E2.04
DRAWN	KVT
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DATE:	03/04/16
ADDENDUM:	ADDENDUM #4

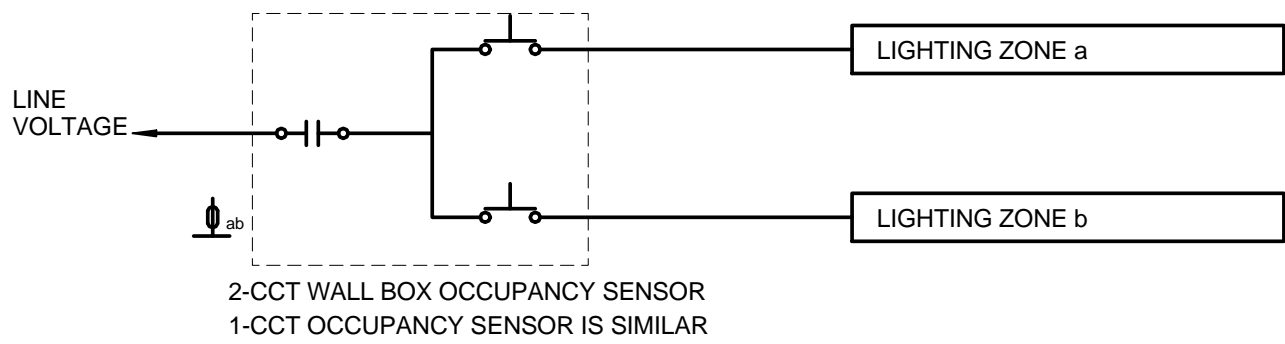
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0 1/8" 1/4" 1/2" 1"

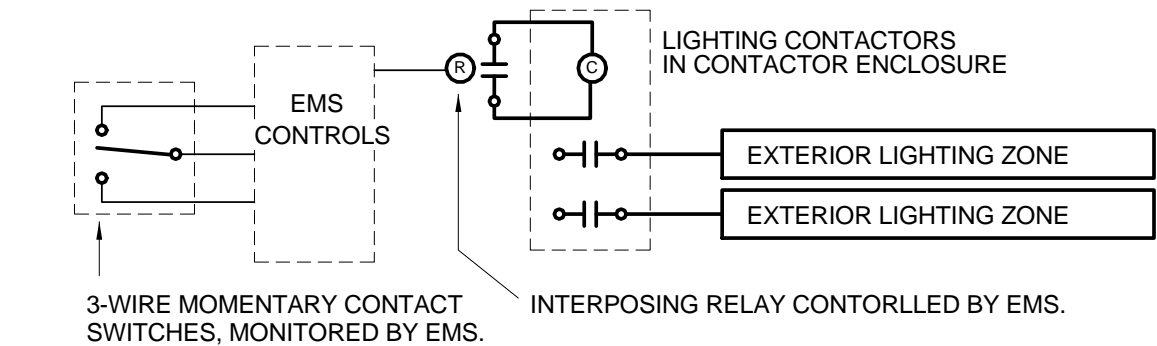
CE-03



A CEILING OR WALL MTD OCCUPANCY SENSOR
NO SCALE



B WALL BOX OCCUPANCY SENSOR (SMALL OFFICES)
NO SCALE



C TYPICAL EXTERIOR LIGHTING
NO SCALE

NOTES

1. THESE ARE GENERIC DIAGRAMS AND NOT ALL ZONES OR SPECIFIC APPLICATIONS ARE SHOWN

6 GENERIC LIGHTING CONTROL DIAGRAMS
Scale: NTS

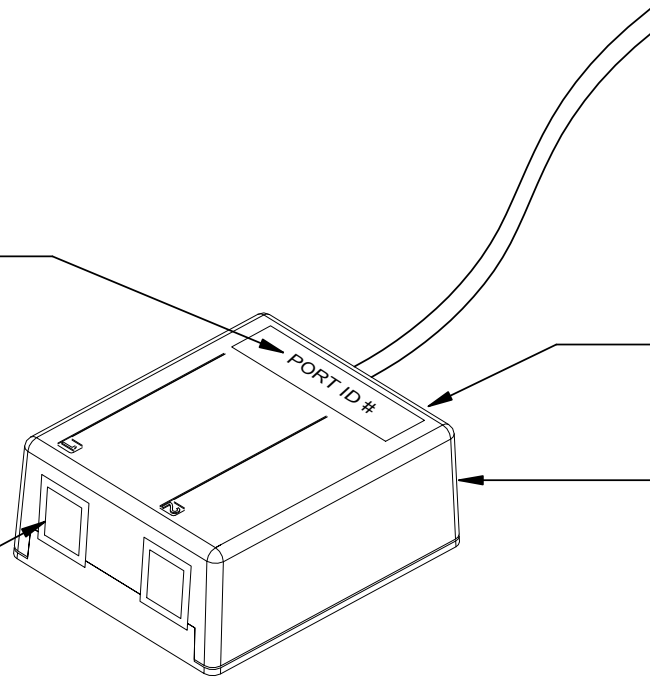
LIGHTING CONTROL DIAGRAMS

APPENDIX #4	DATE	CHECKED	DRAWN	RE:	NAC/NO
ADDENDUM #4	03/04/16	NBH	KVT	EZ.05	111-15017

4

PORT ID WINDOW LABEL

PROVIDE CAT6 RATED 8P8C PORT. USING THE ELECTRICAL SYMBOLS BELOW, PROVIDE (1) 2-PORT OUTLET AND CAT6 CABLE(S) WHERE ANY OF THE ELECTRICAL SYMBOLS SHOWN BELOW. PROVIDE QUANTITIES AS SHOWN ON THE DRAWINGS. PROVIDE BLANK PORT INSERT IN OPPOSITE PORT.

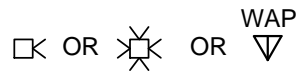


PROVIDE (1) CAT6 RATED CABLE AS SPECIFIED. CONTINUE CABLE ROUTING TO TELECOM ROOM

SECURE THE 2-PORT OUTLET A MINIMUM OF 12" ABOVE THE ACCESSIBLE CEILING

2-PORT SURFACE MOUNT OUTLET

ELECTRICAL SYMBOLS:



13

2-PORT OUTLET LOCATED ABOVE ACCESSIBLE CEILING

Scale: NTS

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DATE: 03/04/2016

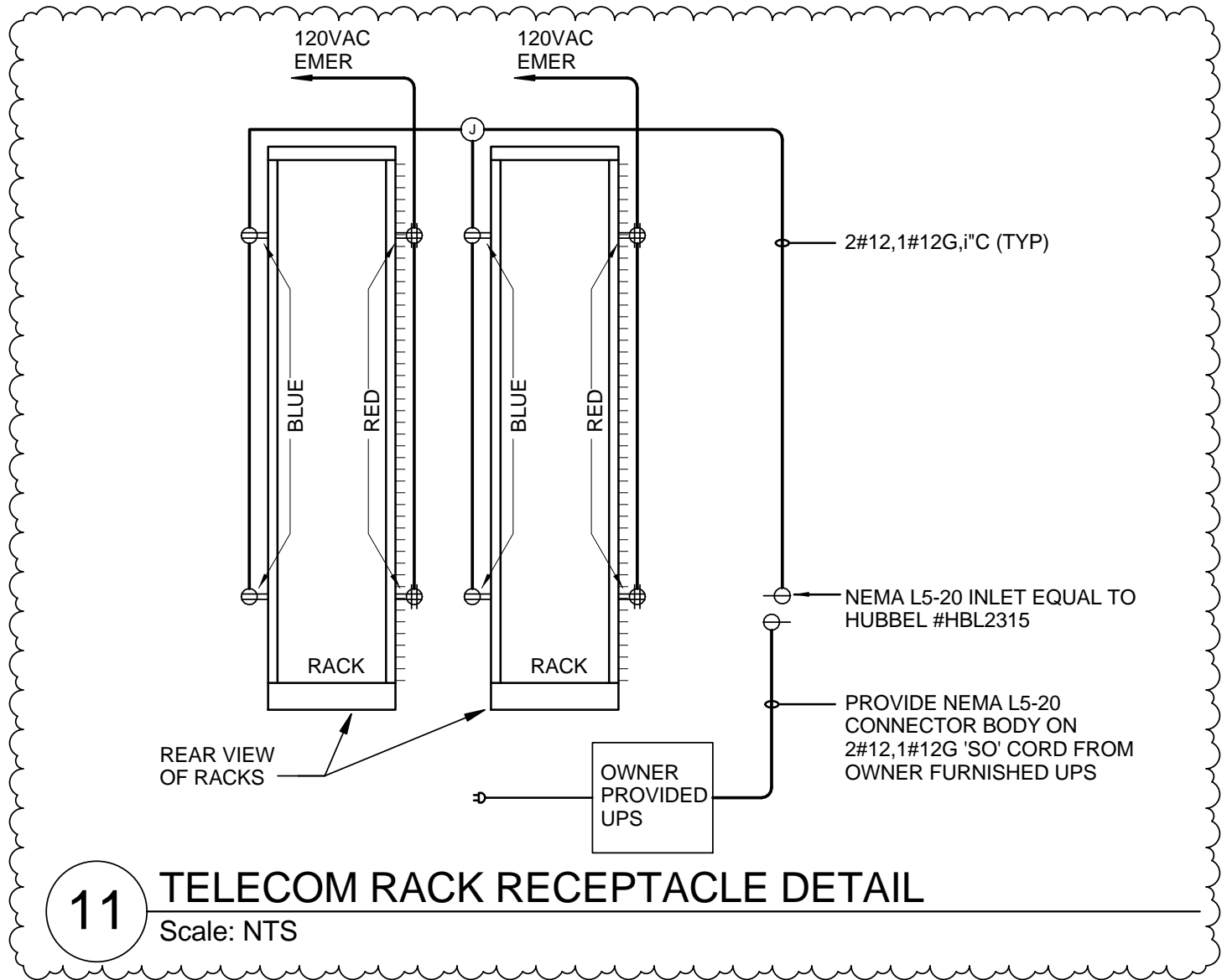
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ADDENDUM #4

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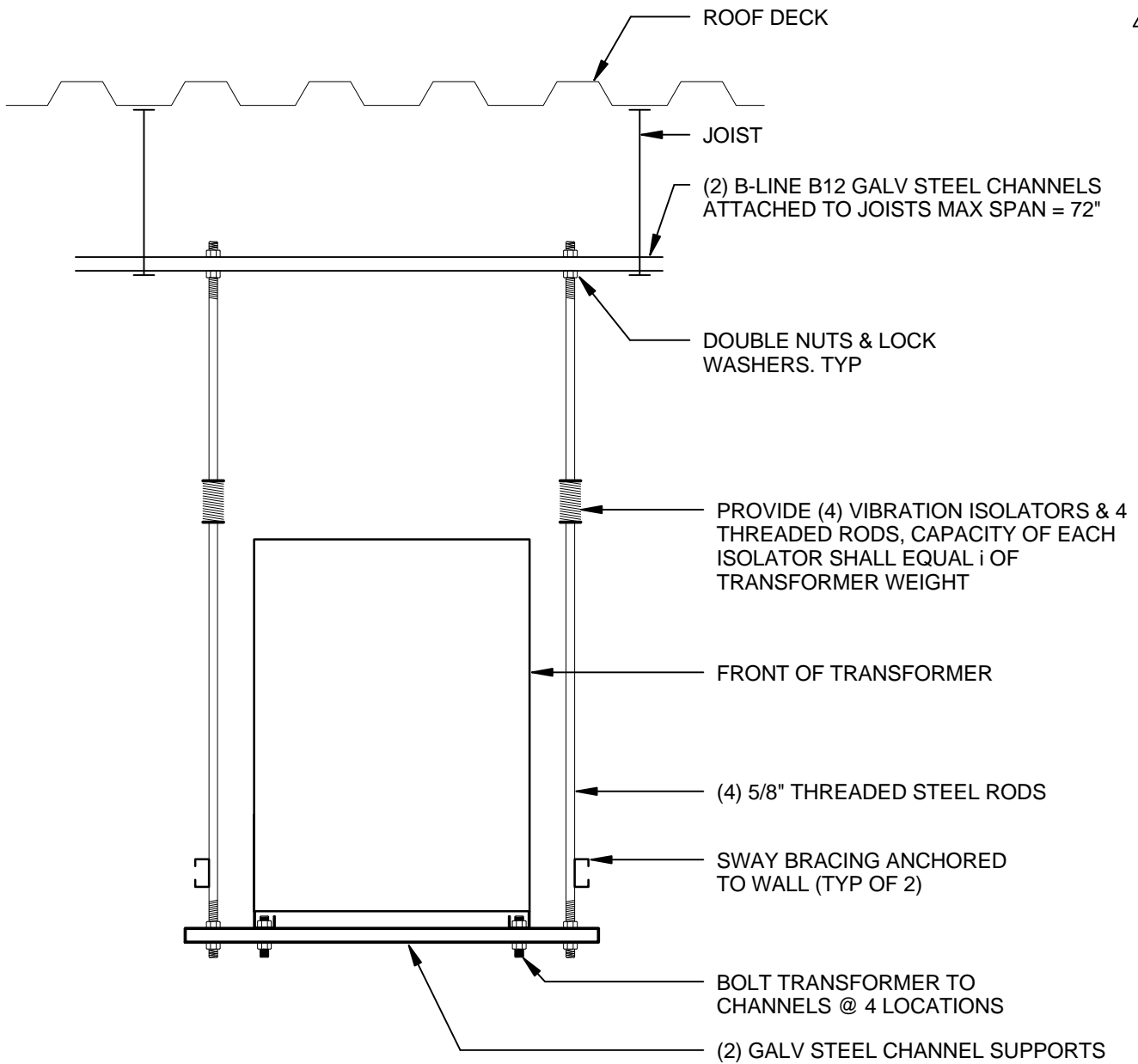
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CE-07

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12 TRANSFORMER SUPPORT DETAIL
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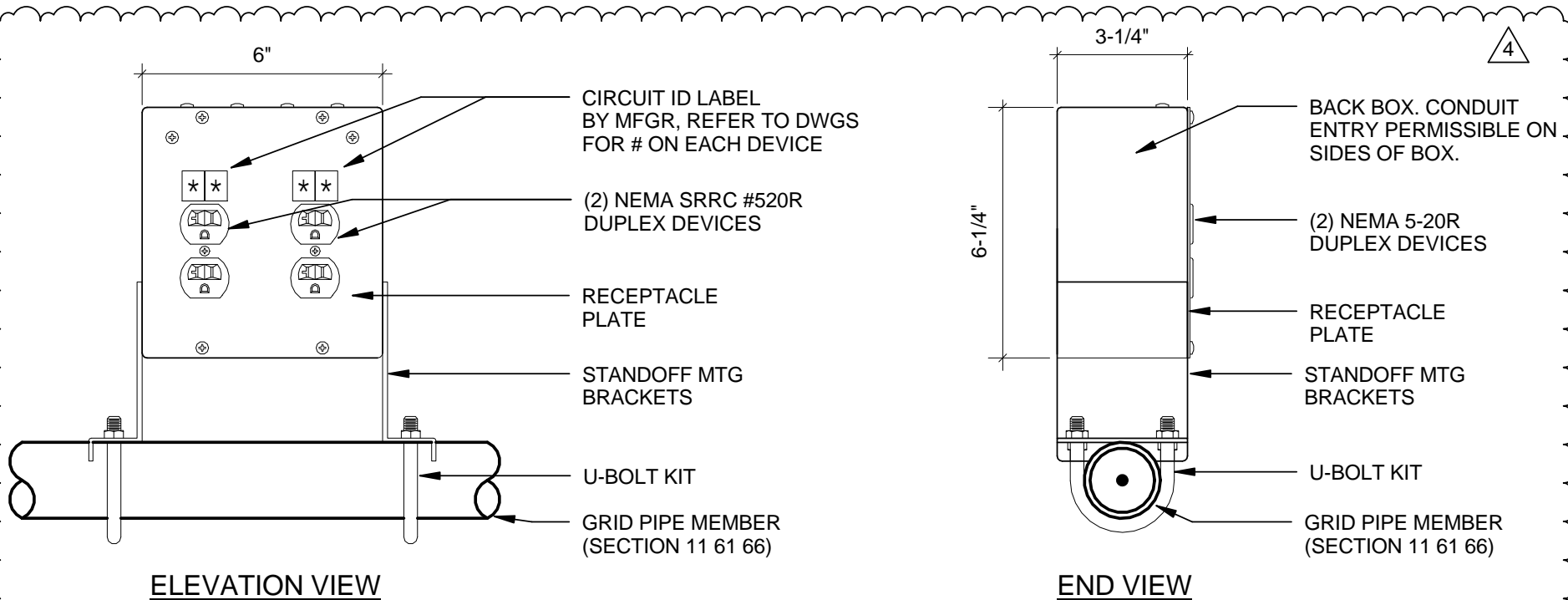
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1 RECEPTACLE MTG DETAIL
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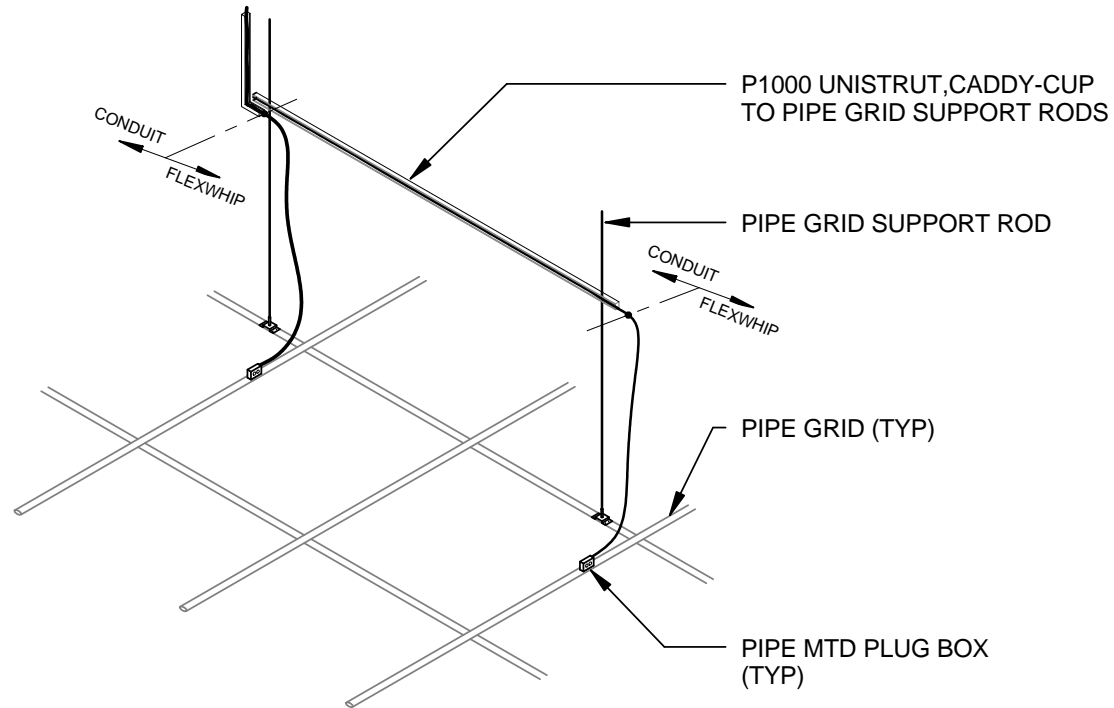
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CE-09

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2

CONDUIT ROUTING UP AWAY FROM GRID

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CE-10

ADDENDUM #4

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PANEL: 2LB

LOCATION:
SUPPLY: 1LMD
MOUNTING: Surface
ENCLOSURE: Type 1

VOLTS: 120/208 Wye
PHASES 3
WIRES: 4
BUS RATING: 125

INTEGRAL SPD: No
ISO GND BAR: No
FEED-THRU LUGS: No
WIREWAY TO FLR: Yes

A.I.C. RATING: SEE FAULT TABLE
MAINS TYPE: MLO
MAINS RATING: 125 A

CC T	LOAD NAME	CCT NOTE	TRIP	PO LE	A	B	C	PO LE	TRIP	CCT NOTE	LOAD NAME	CC T
1	REC ASB CLASSROOM N209		20	1	960	180		1	20		REC OUTSIDE SOUTH	2
3	REC ASB CLASSROOM N209...		20	1		1360	360	1	20		REC COMMONS N201 FLOORBOX	4
5	ASB CLASSROOM N209		20	1			1080	540	1	20	REC Room N101E, 024EA	6
7	REC ASB CLASSROOM N209		20	1	780	600		1	20		REC MECH N201E	8
9	REC ASB CLASSROOM N209		20	1		1200	600	1	20		CONT ACPS	10
11	REC OFFICE N209A		20	1			1140	600	1	20	KIT SATELLITE SERVING N204 S11	12
13	CONT CLASSROOM N209 AV CABINET		20	1	1500	936		2	20		KIT SATELLITE SERVING N204 S10	14
15	REC ASB STORAGE N206A		20	1		720	936	--	--	--	--	16
17	REC ASB STORE N210		20	1			1200	1456	2	20	KIT SATELLITE SERVING N204 S9	18
19	REC ASB STORE N210		20	1	780	1456		--	--	--	--	20
21	REC Room N201, N205 EAST WALL		20	1		900	0	1	20		--	22
23	REC SATELLITE SERVING N202		20	1			540	0	1	20	--	24
25	REC DRO N203		20	1	720	0		1	20		--	26
27	REC Room N203A, N201B		20	1		900	0	1	20		--	28
29	KIT SATELLITE SERVING N204 S3		20	1			1440	0	1	20	--	30
31	KIT SATELLITE SERVING N204 S4		20	1	2136	0		1	20		--	32
33	KIT SATELLITE SERVING N204 S7		20	1		864	0	1	20		--	34
35	KIT SATELLITE SERVING N204 S13		20	1			1800	0	1	20	--	36
37	--		20	1	0	0		1	20		--	38
39	--		20	1		0	0	1	20		--	40
41	--		20	1			0	0	1	20	--	42

SPECIAL PANEL FEATURES:		CONN LOAD:	10048 VA	7,840 VA	9,796 VA	CIRCUITING NOTES: 1. 2. 3. 4.
A.		DMND LOAD:	8098 W	6318 W	7895 W	
B.		DMND AMPS:	70	53	68	
C.						
D.						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD	PANEL TOTALS
COMP	300 VA	100.00%	300 VA	EXG DEMAND CURRENT @ 125%
CONT	2,100 VA	125.00%	2,625 VA	TOTAL NEW CONNECTED LOAD: 27,684 VA
REC	13,660 VA	86.60%	11,830 VA	TOTAL NEW DEMAND LOAD: 22311 VA
KIT	11,624 VA	65.00%	7,556 VA	TOTAL NEW CONN CURRENT: 76.84 A
				TOTAL NEW DEMAND CURRENT: 61.93 A
				TOTAL EXG + NEW CURRENT: 62
				UNBALANCED CURRENT: 20

LINE TOTALS: 27,684 VA 80.59% 22,311 VA
NORTH CENTRAL HS CAFETERIA/COMMONS ADDITION #111-15017

SPOKANE PUBLIC SCHOOL DISTRICT NO. 81

NORTH CENTRAL HS CAFETERIA/COMMONS ADDITION

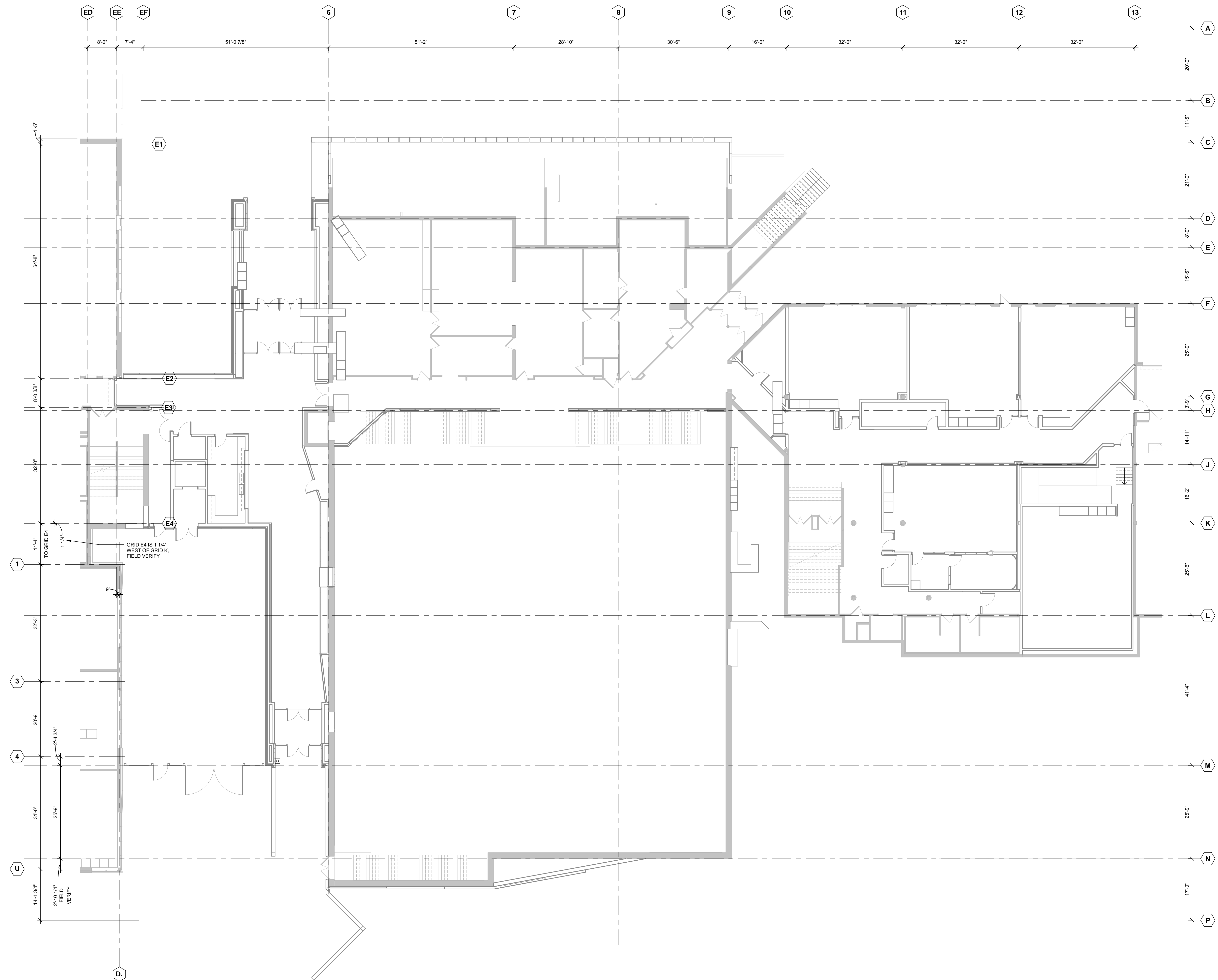
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0 1/8" 3/4" 1 1/2" 1"
CE-11



GRID PLAN
Scale: 3/32" = 1'-0"

2382 REGISTERED ARCHITECT
Steve Harpuff
STEVE HARPUFF
STATE OF WASHINGTON

7714 REGISTERED ARCHITECT
Dana Harbaugh
DANA HARBAUGH
STATE OF WASHINGTON

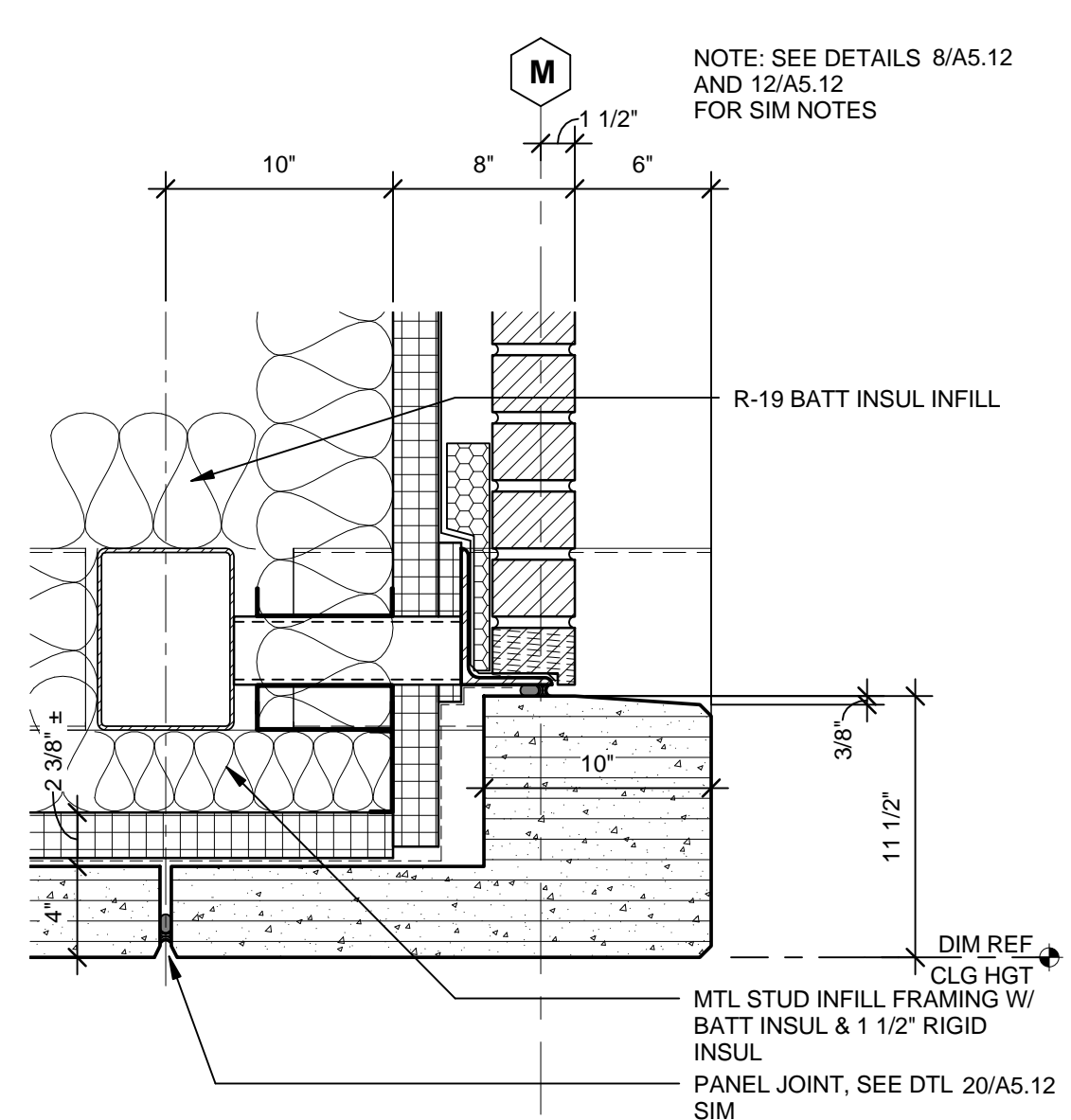
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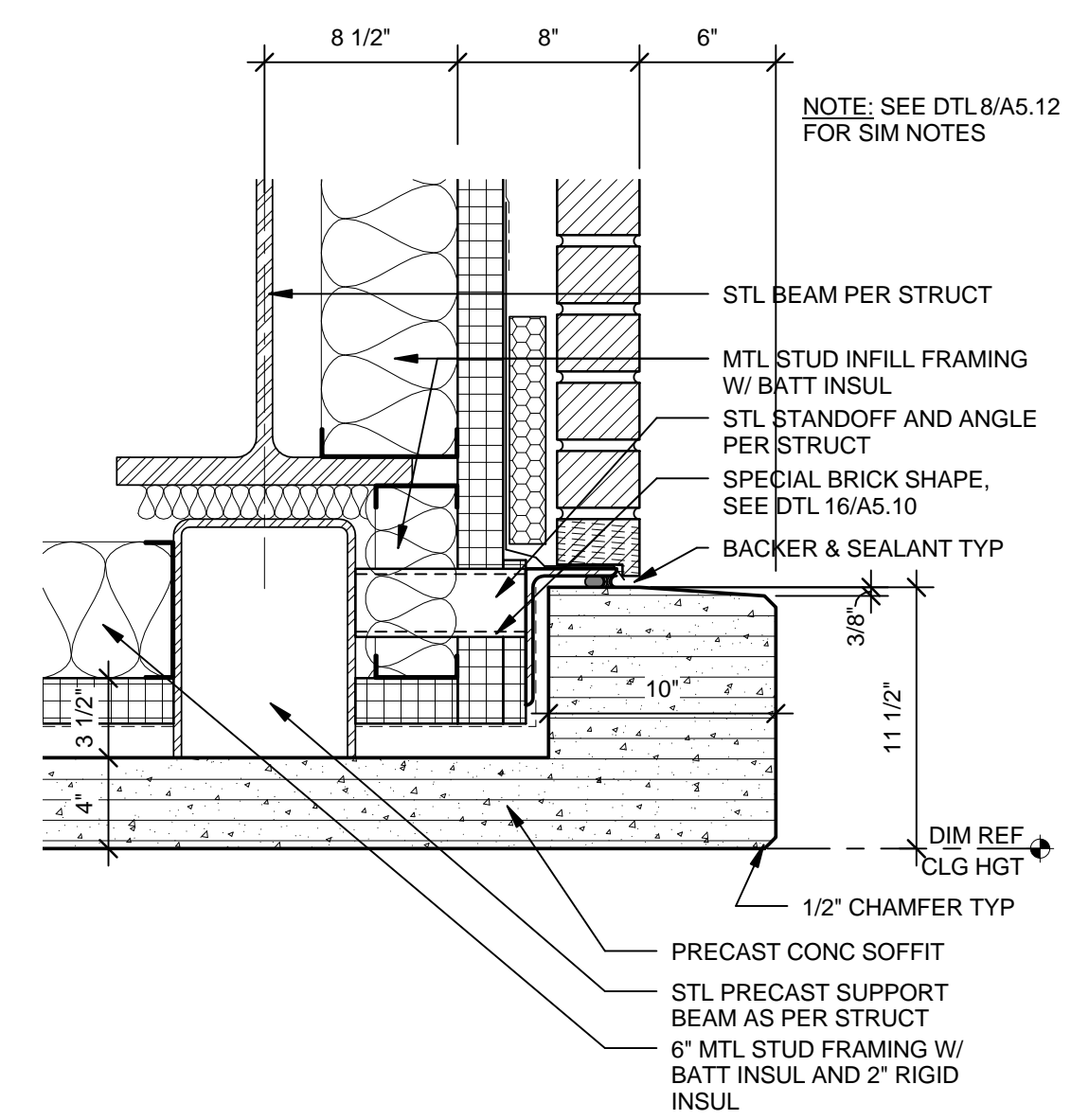
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DRAWN: RSW
CHECKED: -
DATE: 02/19/2016

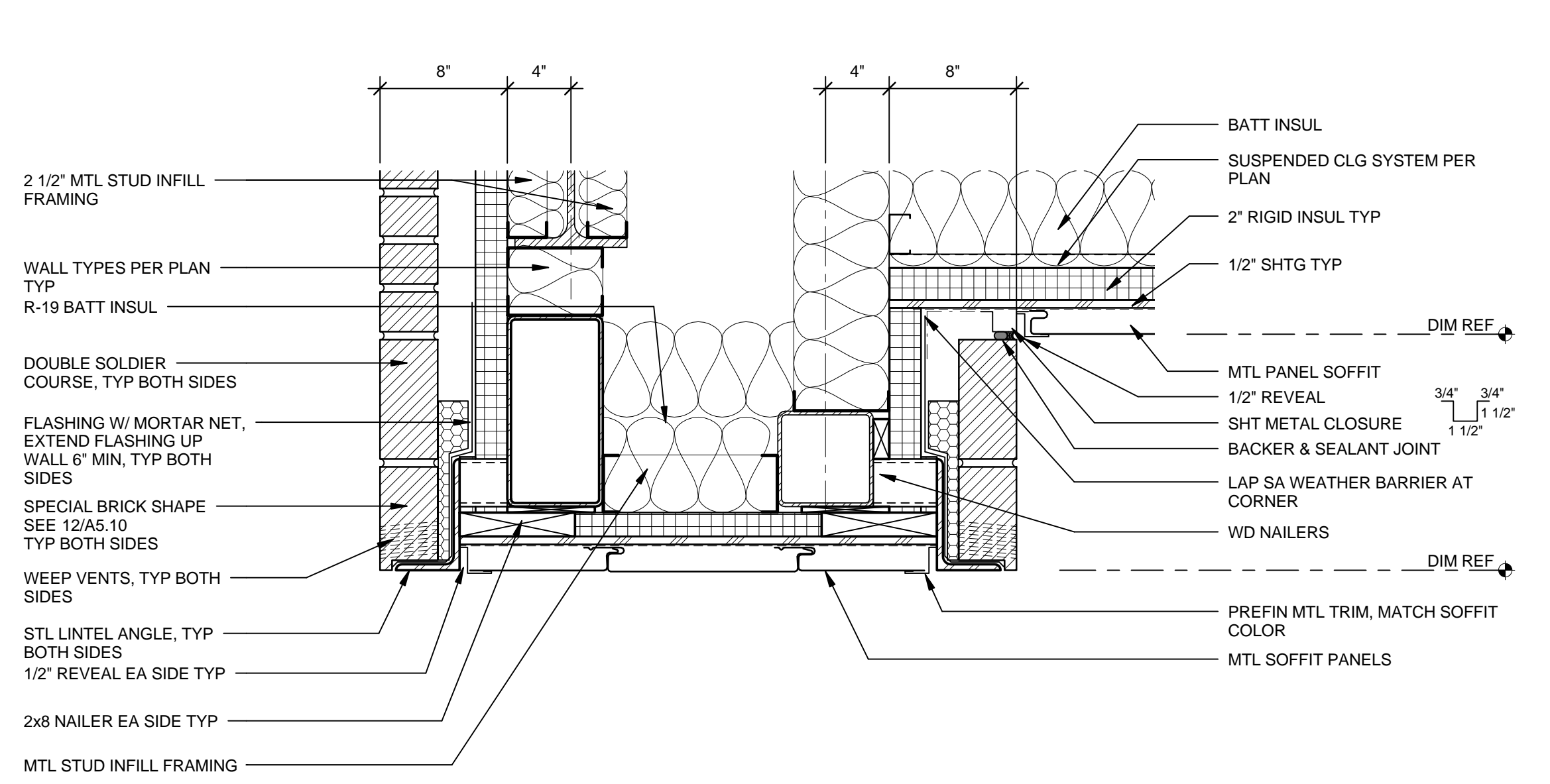
GRID PLAN
CD
G1.01



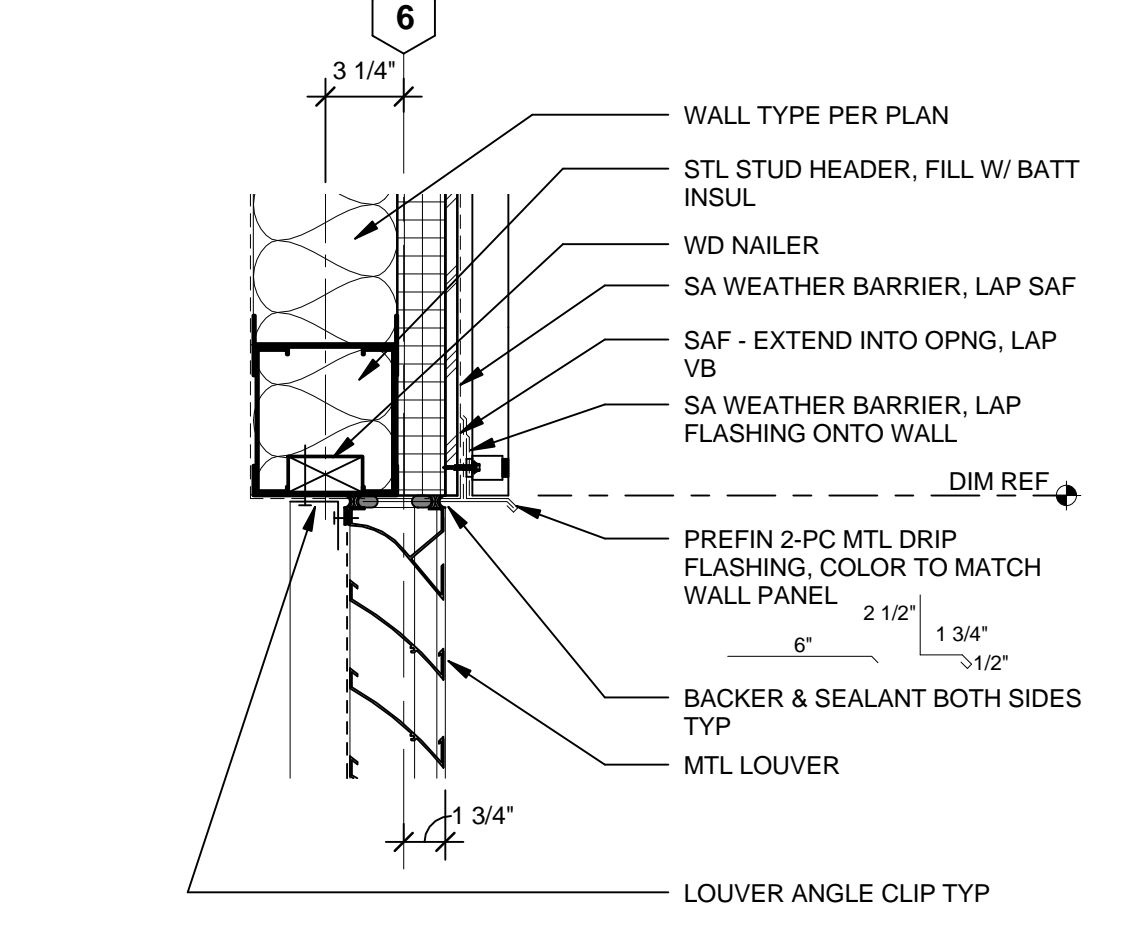
16 WEST PORTAL HEAD
Scale: 1 1/2" = 1'-0"



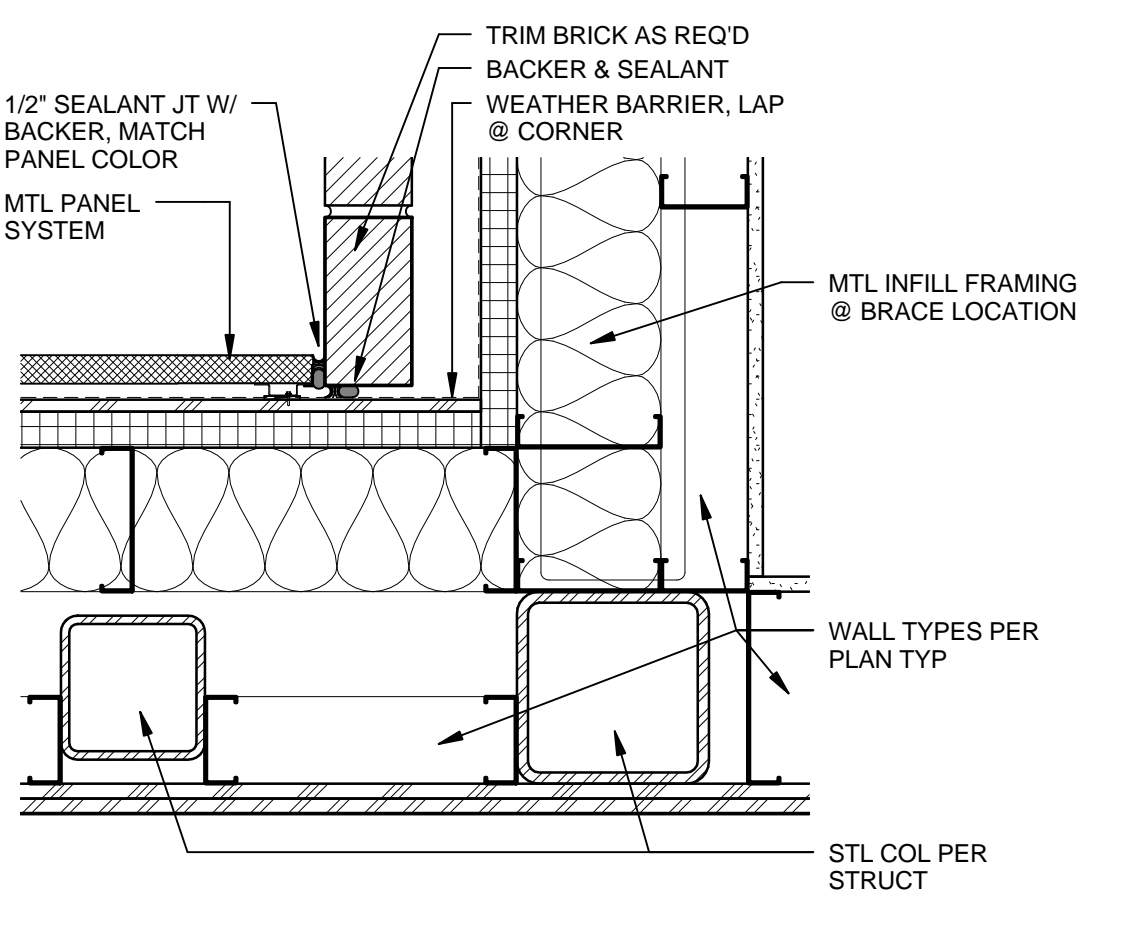
12 EAST PORTAL HEAD
Scale: 1 1/2" = 1'-0"



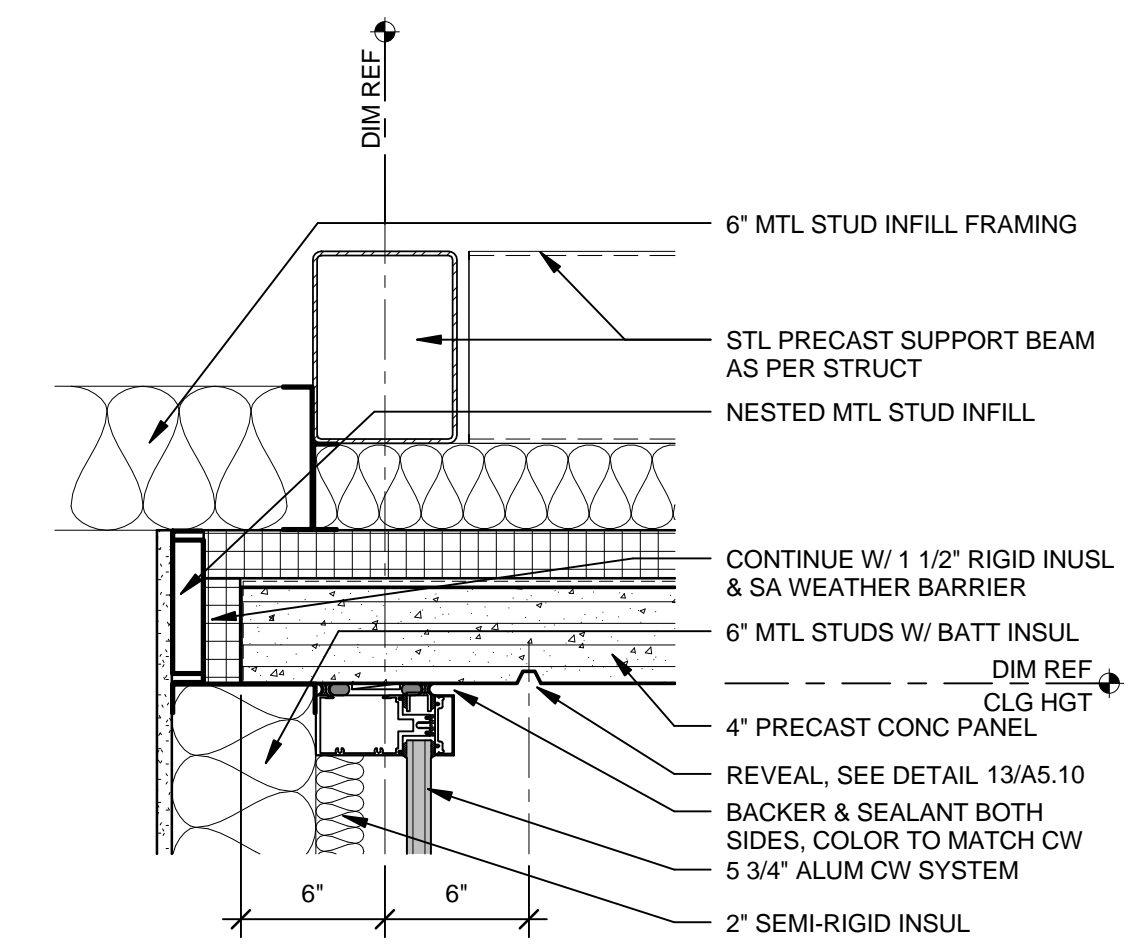
8 EAST PORTAL - BENCH HEAD
Scale: 1 1/2" = 1'-0"



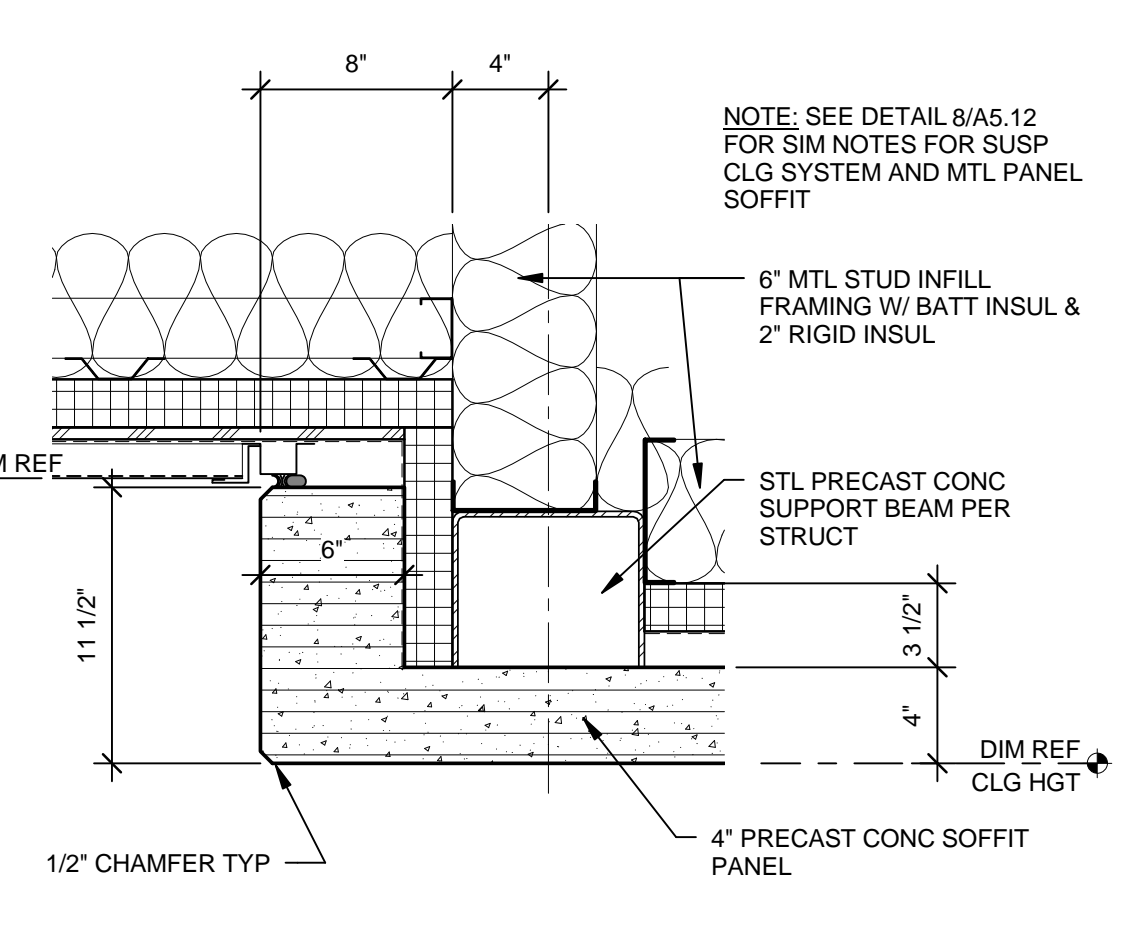
4 LOUVER HEAD
Scale: 1 1/2" = 1'-0"



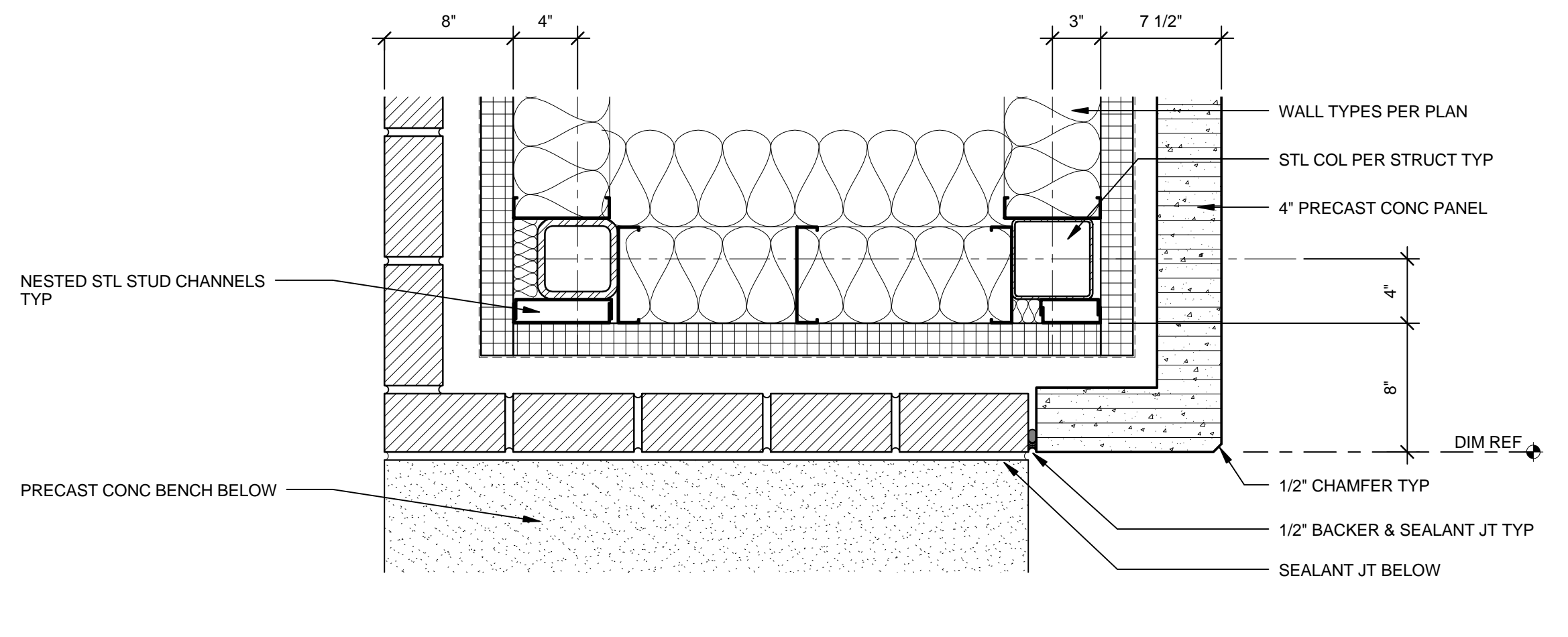
1 SKYBRIDGE WALL DTL
Scale: 1 1/2" = 1'-0"



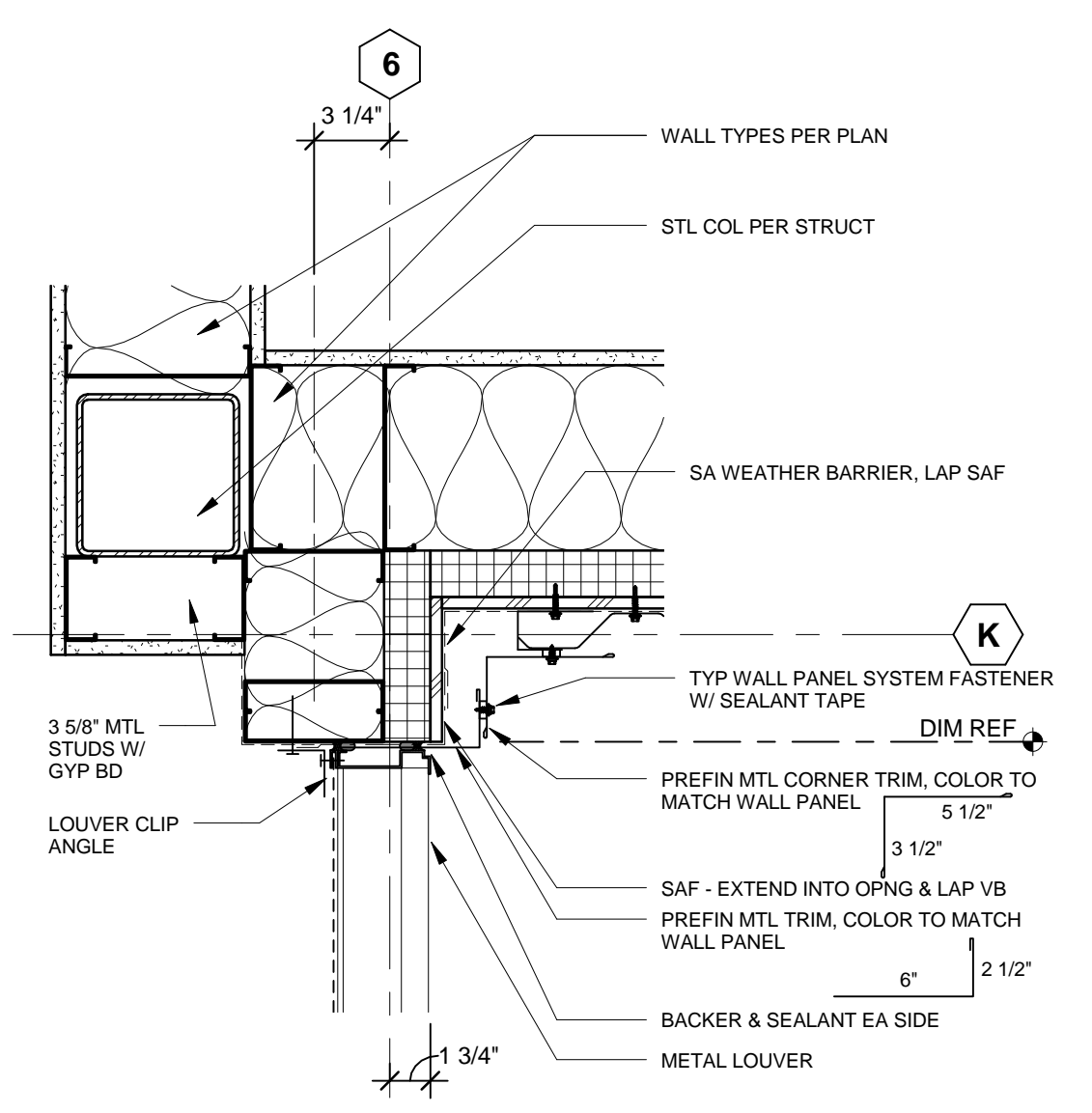
17 WEST PORTAL HEAD @ CW
Scale: 1 1/2" = 1'-0"



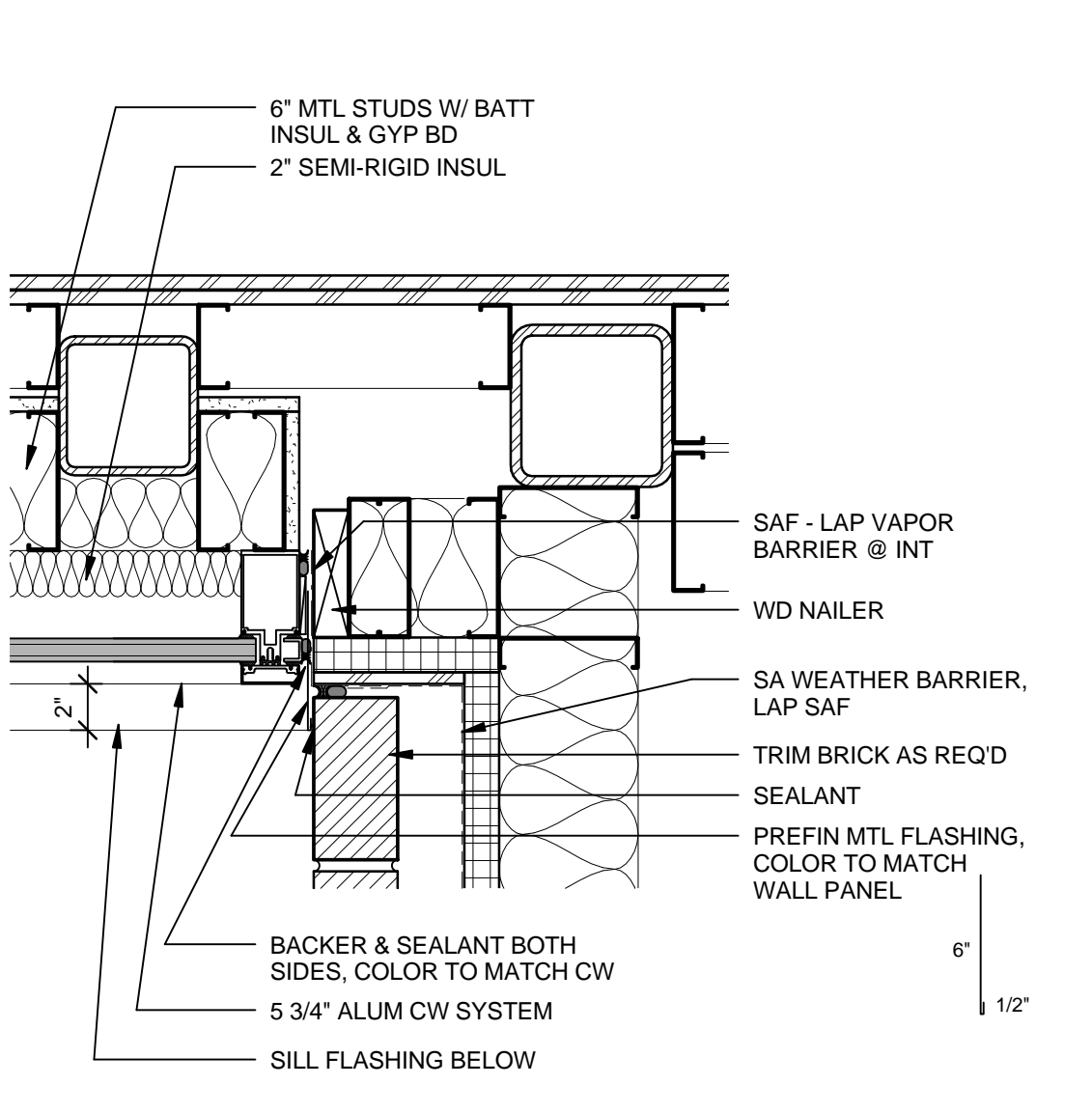
13 EAST PORTAL HEAD
Scale: 1 1/2" = 1'-0"



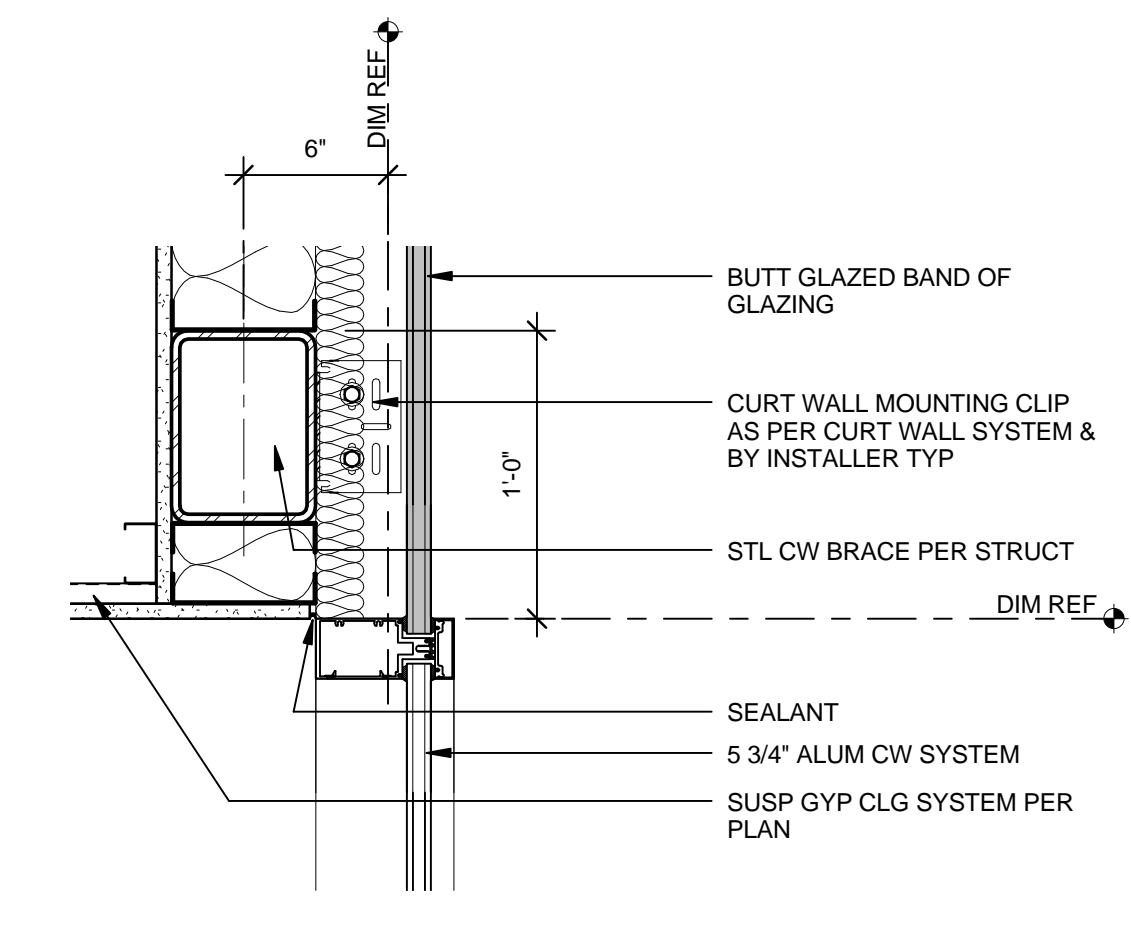
9 EAST PORTAL - BENCH JAMB
Scale: 1 1/2" = 1'-0"



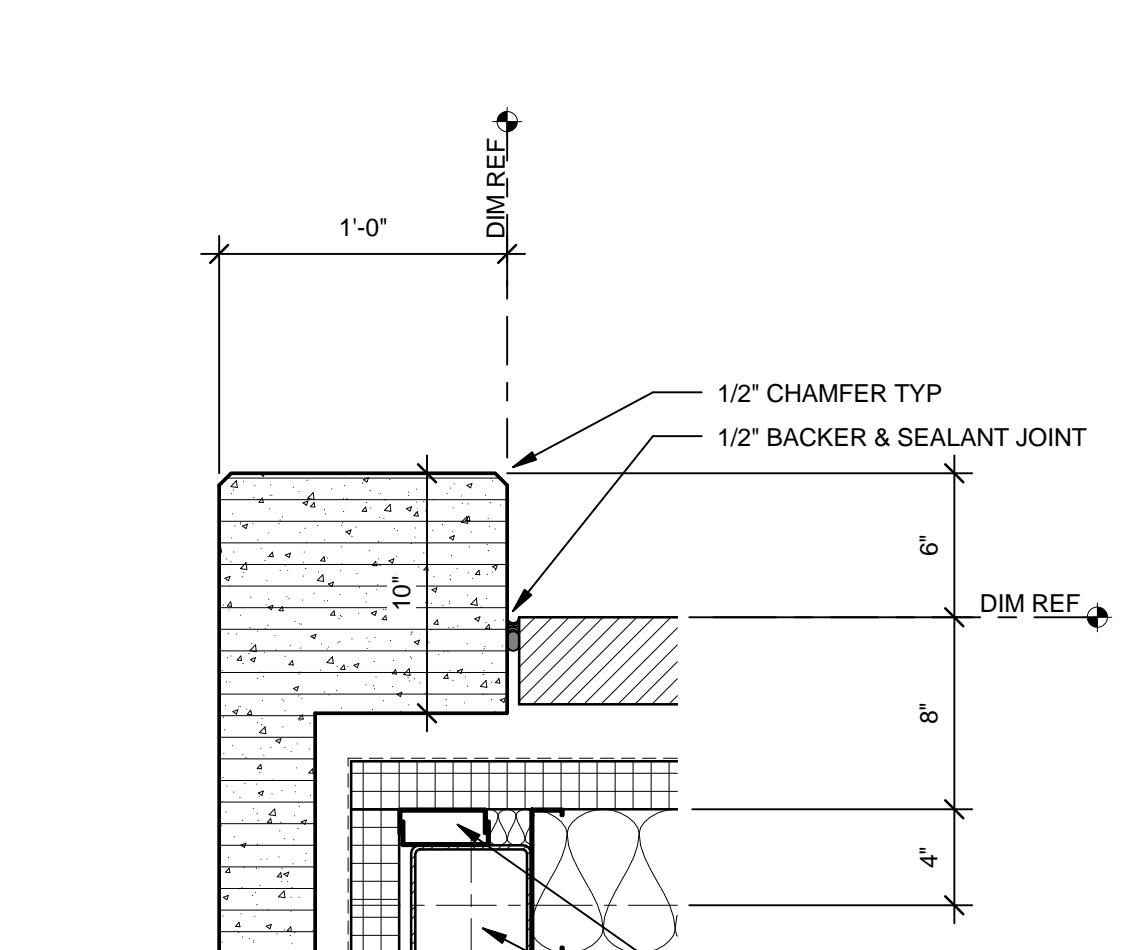
5 LOUVER JAMB
Scale: 1 1/2" = 1'-0"



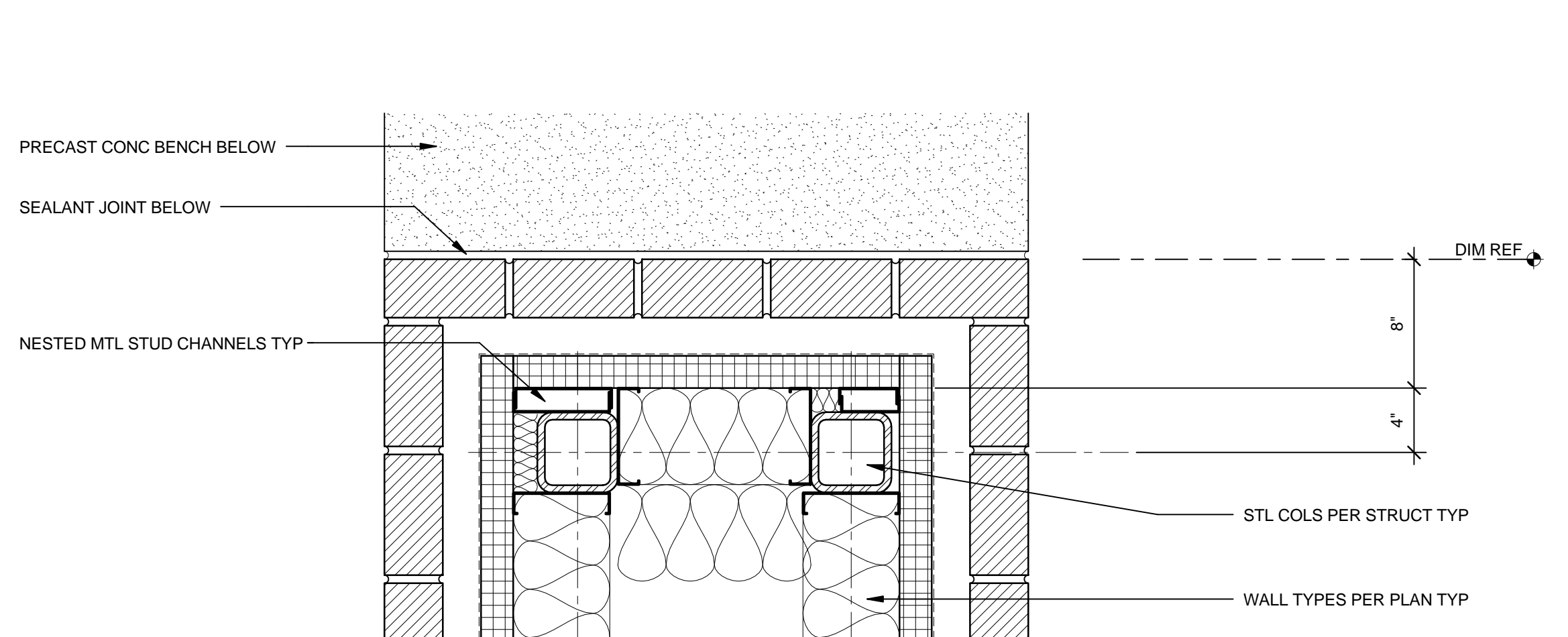
2 SKYBRIDGE WALL DTL
Scale: 1 1/2" = 1'-0"



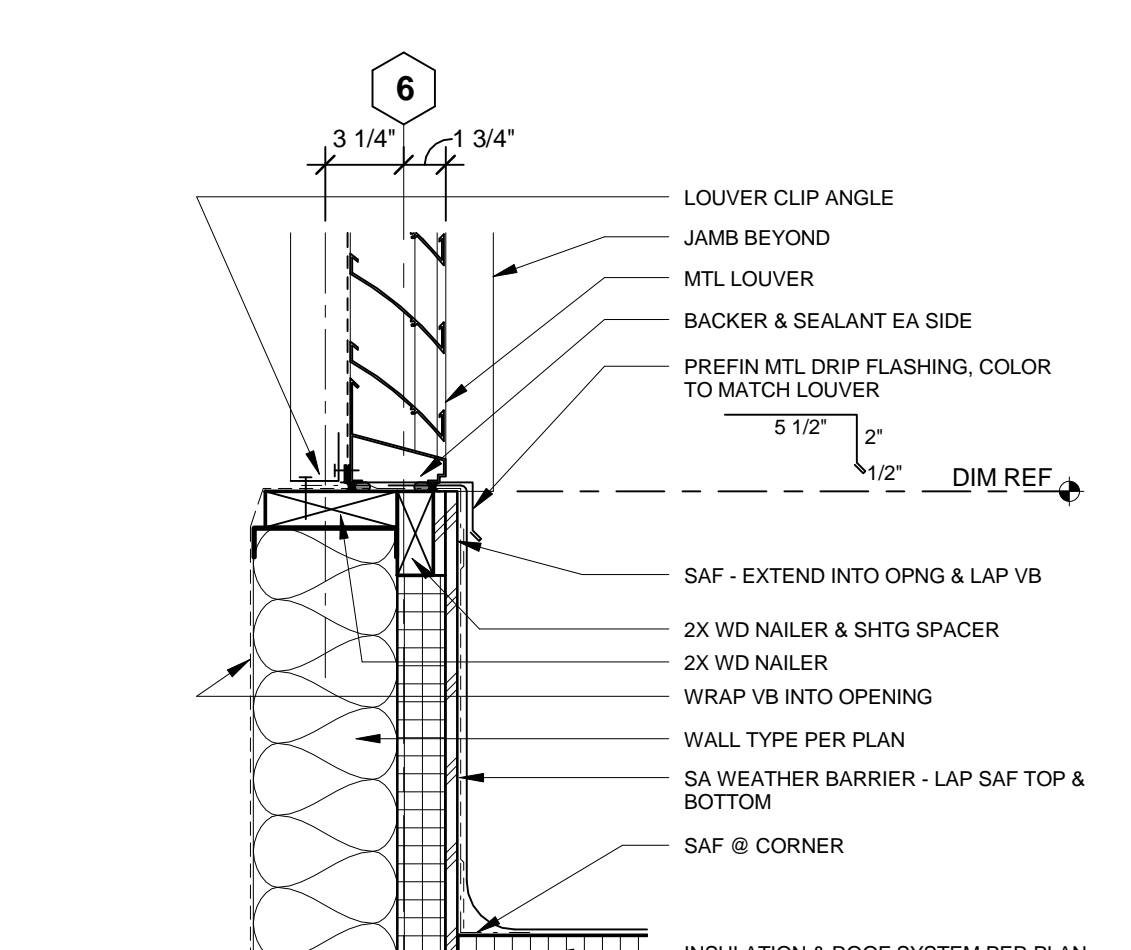
18 WEST PORTAL CW DETAIL
Scale: 1 1/2" = 1'-0"



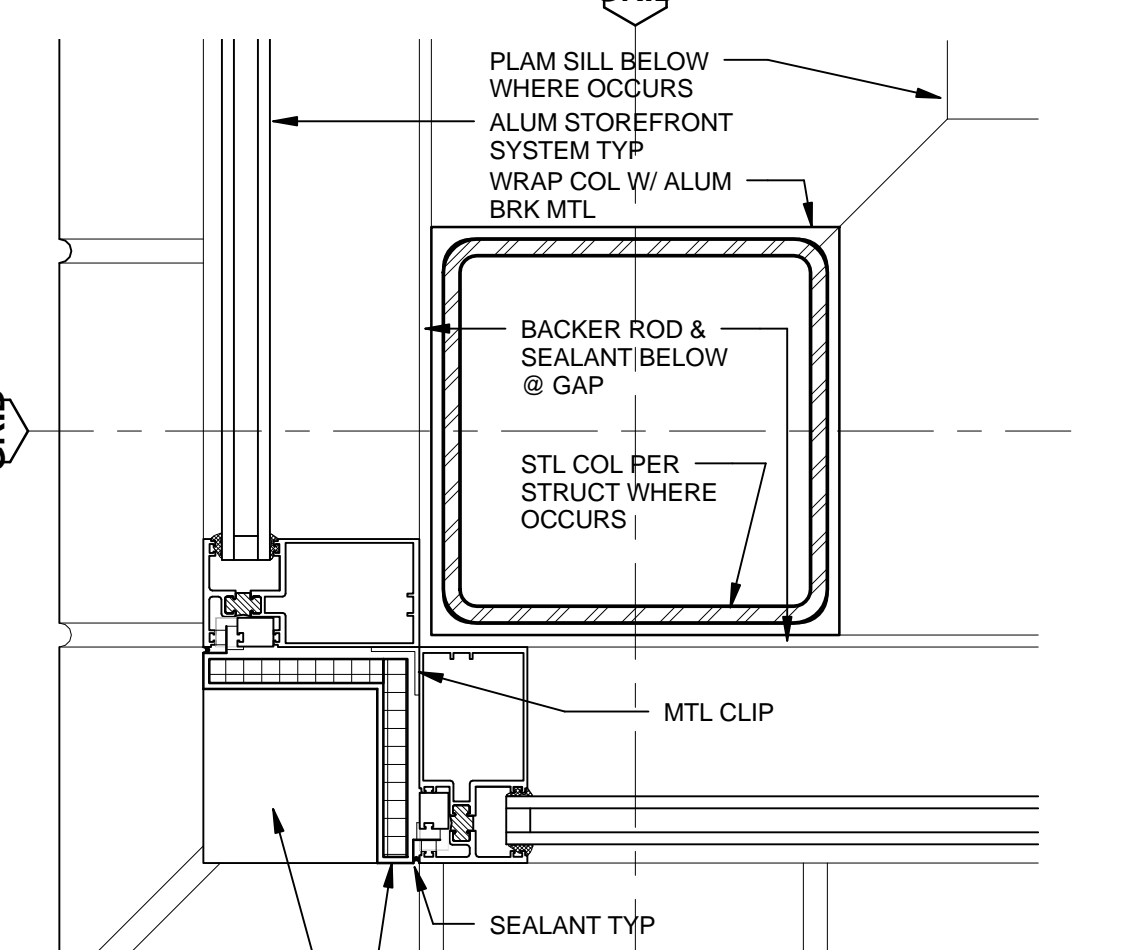
14 EAST PORTAL JAMB
Scale: 1 1/2" = 1'-0"



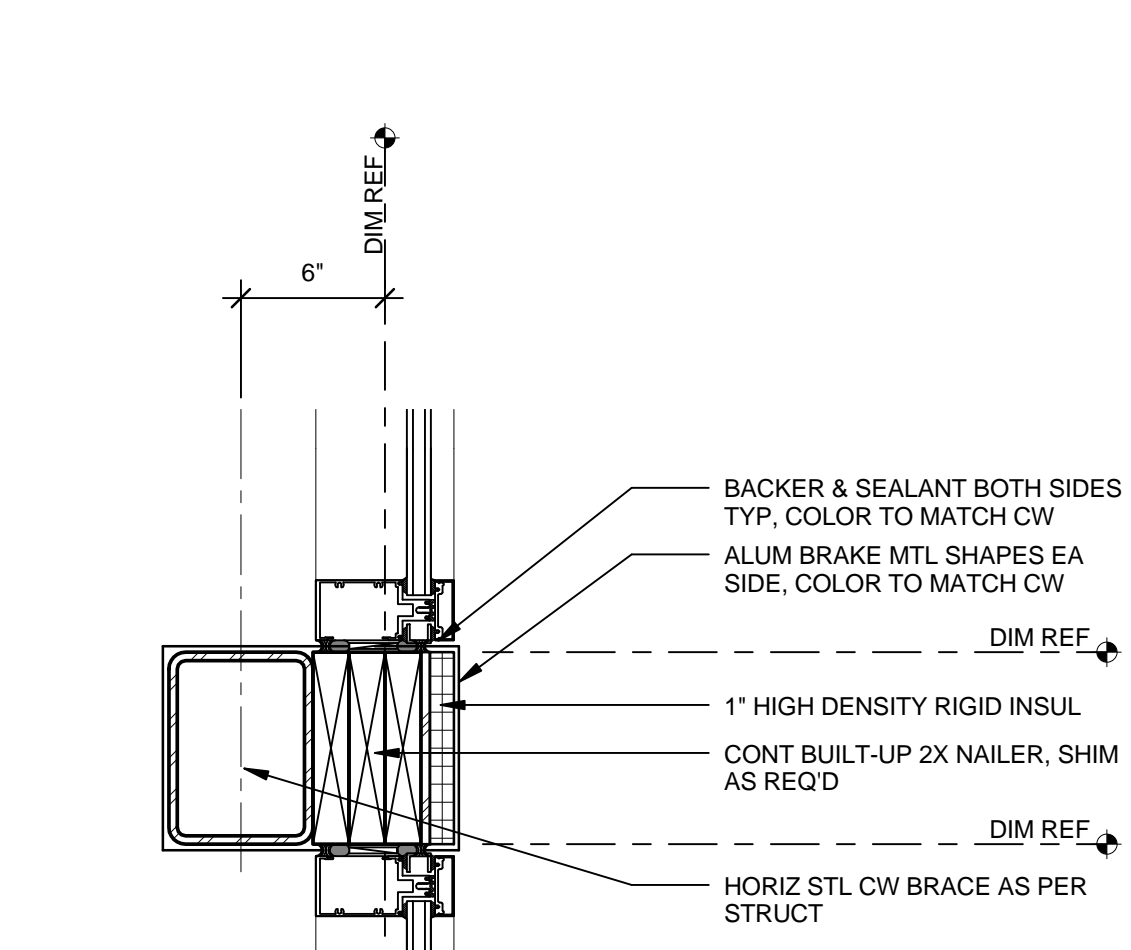
10 EAST PORTAL - BENCH JAMB
Scale: 1 1/2" = 1'-0"



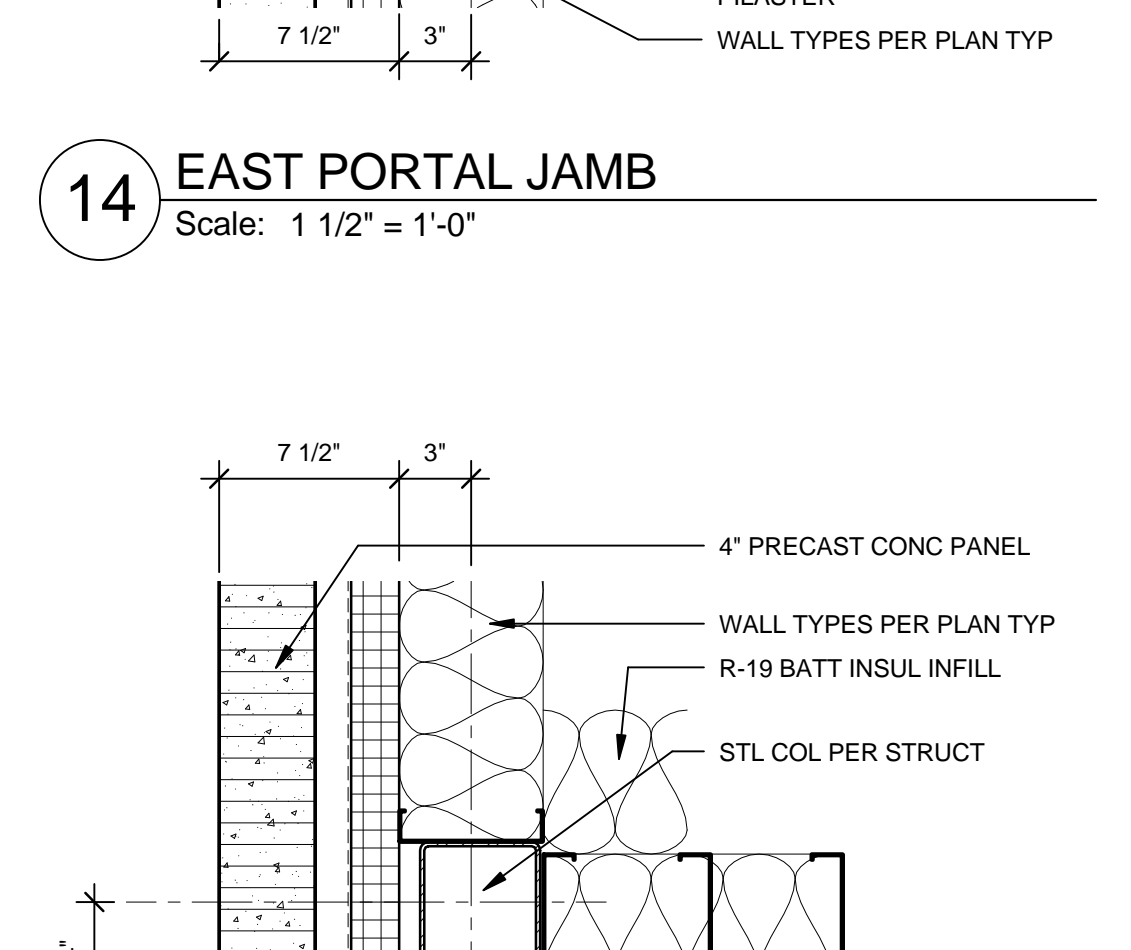
6 LOUVER SILL
Scale: 1 1/2" = 1'-0"



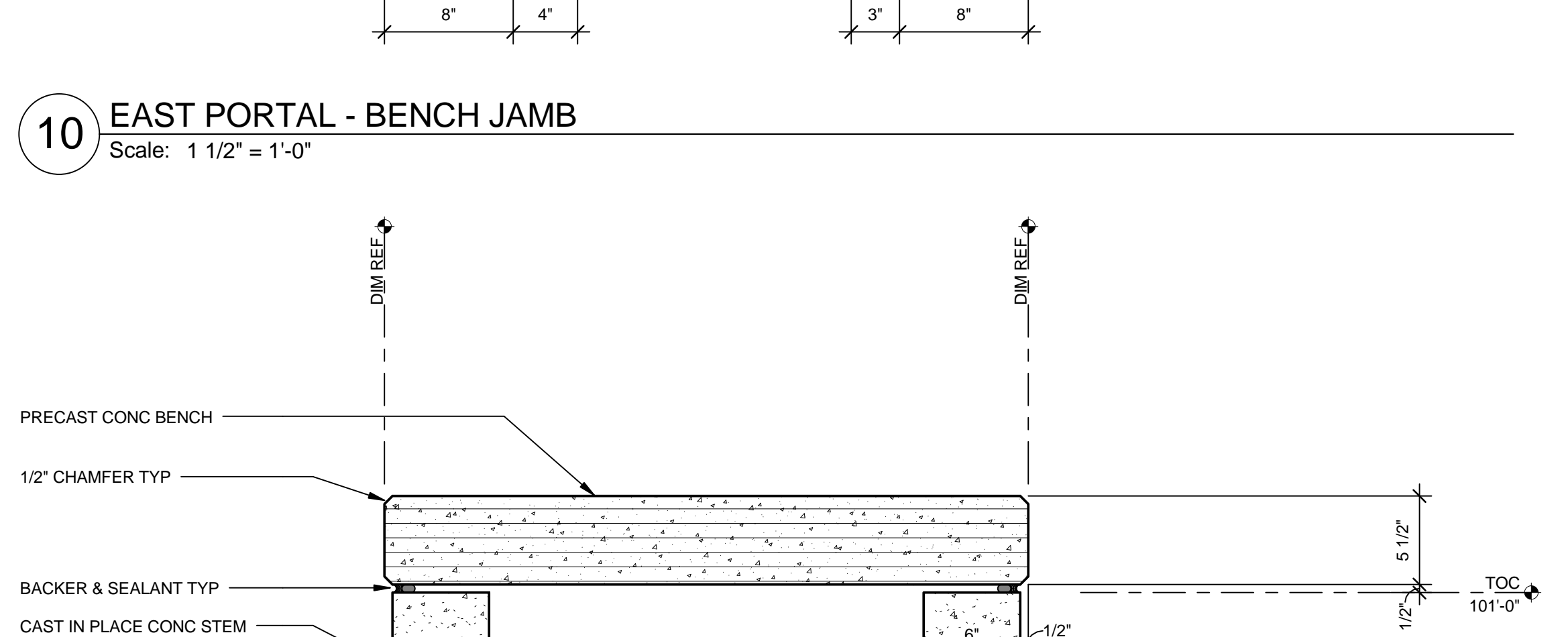
3 WINDOW CORNER
Scale: 3" = 1'-0"



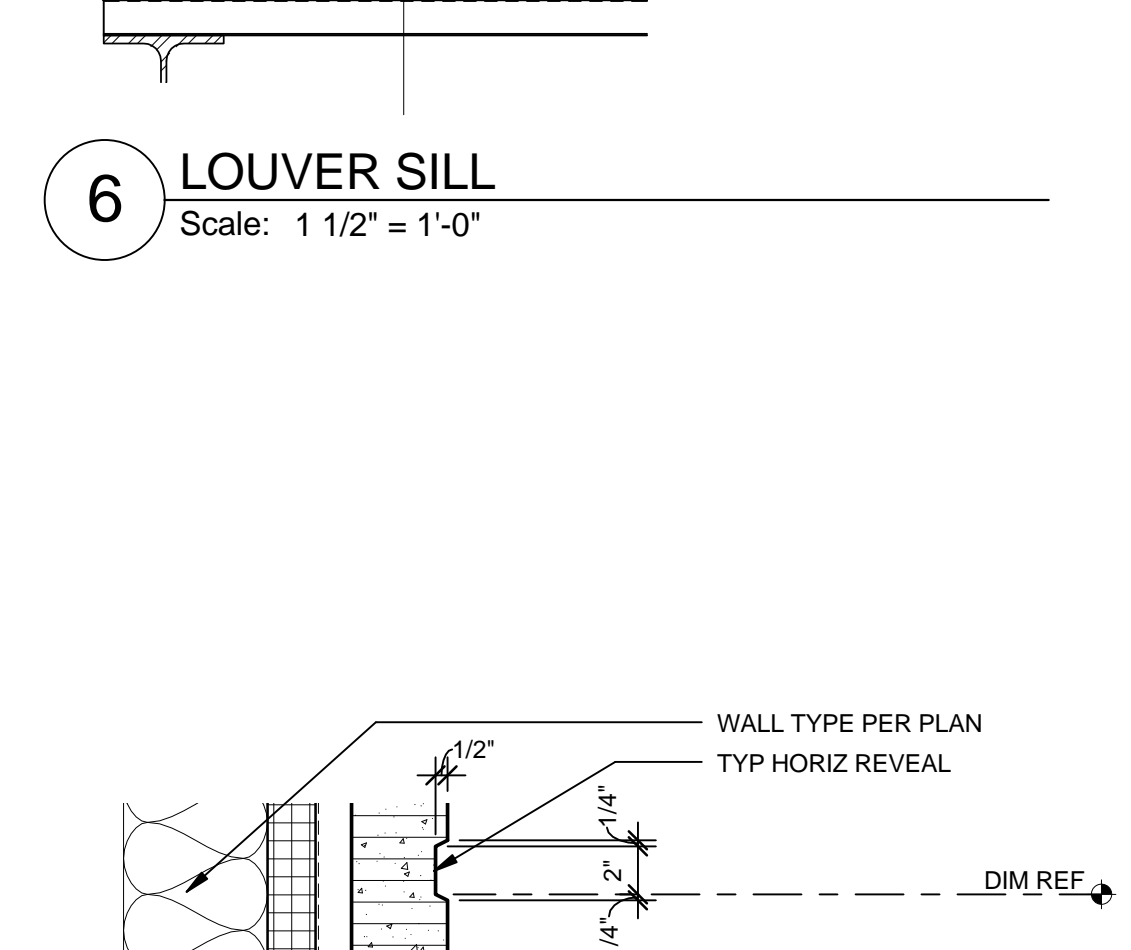
19 WEST PORTAL CW DETAIL
Scale: 1 1/2" = 1'-0"



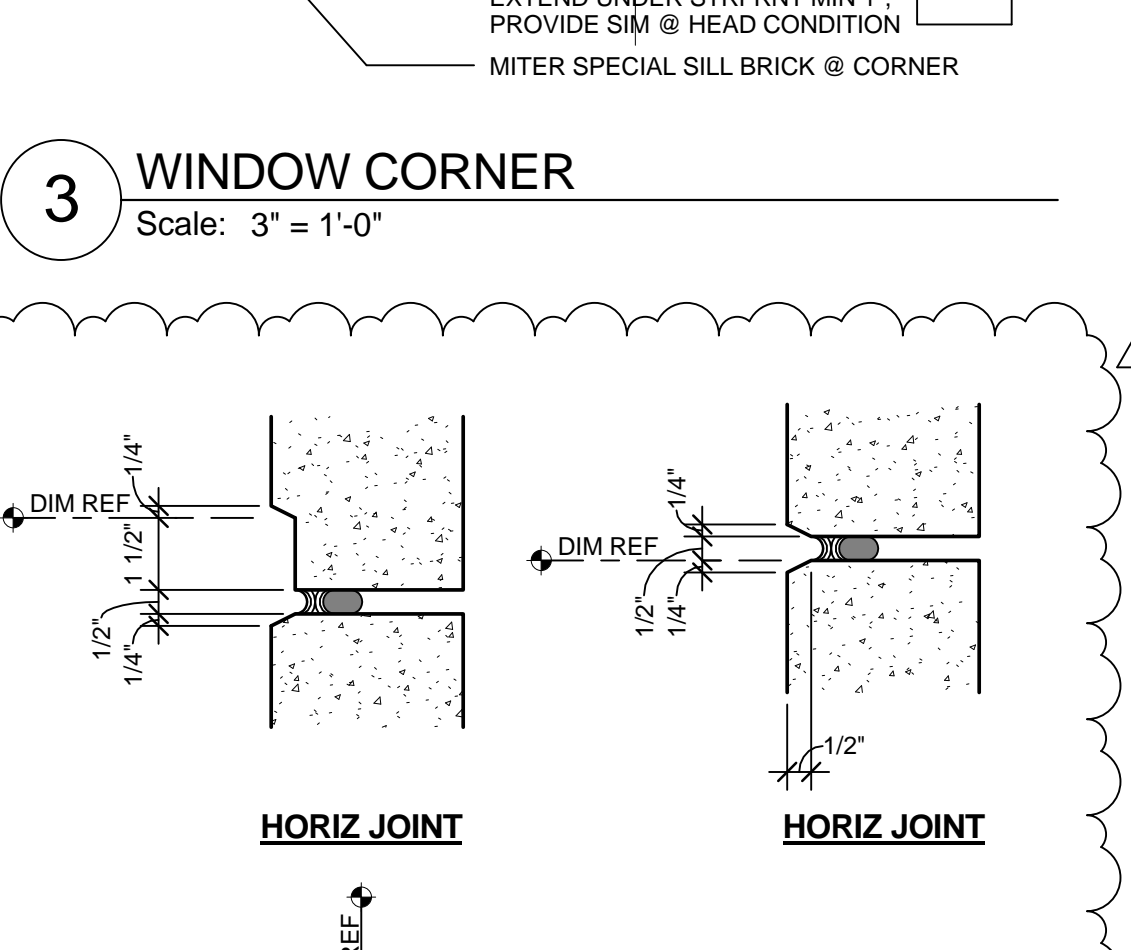
15 EAST PORTAL JAMB
Scale: 1 1/2" = 1'-0"



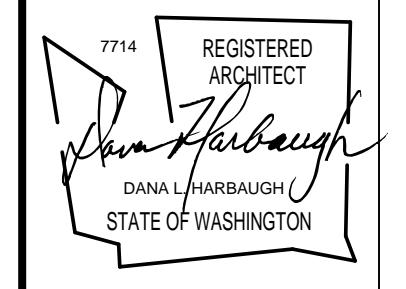
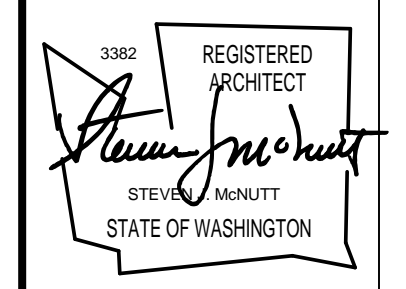
11 EAST PORTAL - BENCH
Scale: 1 1/2" = 1'-0"



7 PRECAST PORTAL BASE
Scale: 1 1/2" = 1'-0"



20 TYP PRECAST CONC PORTAL JOINTS
Scale: 3" = 1'-0"



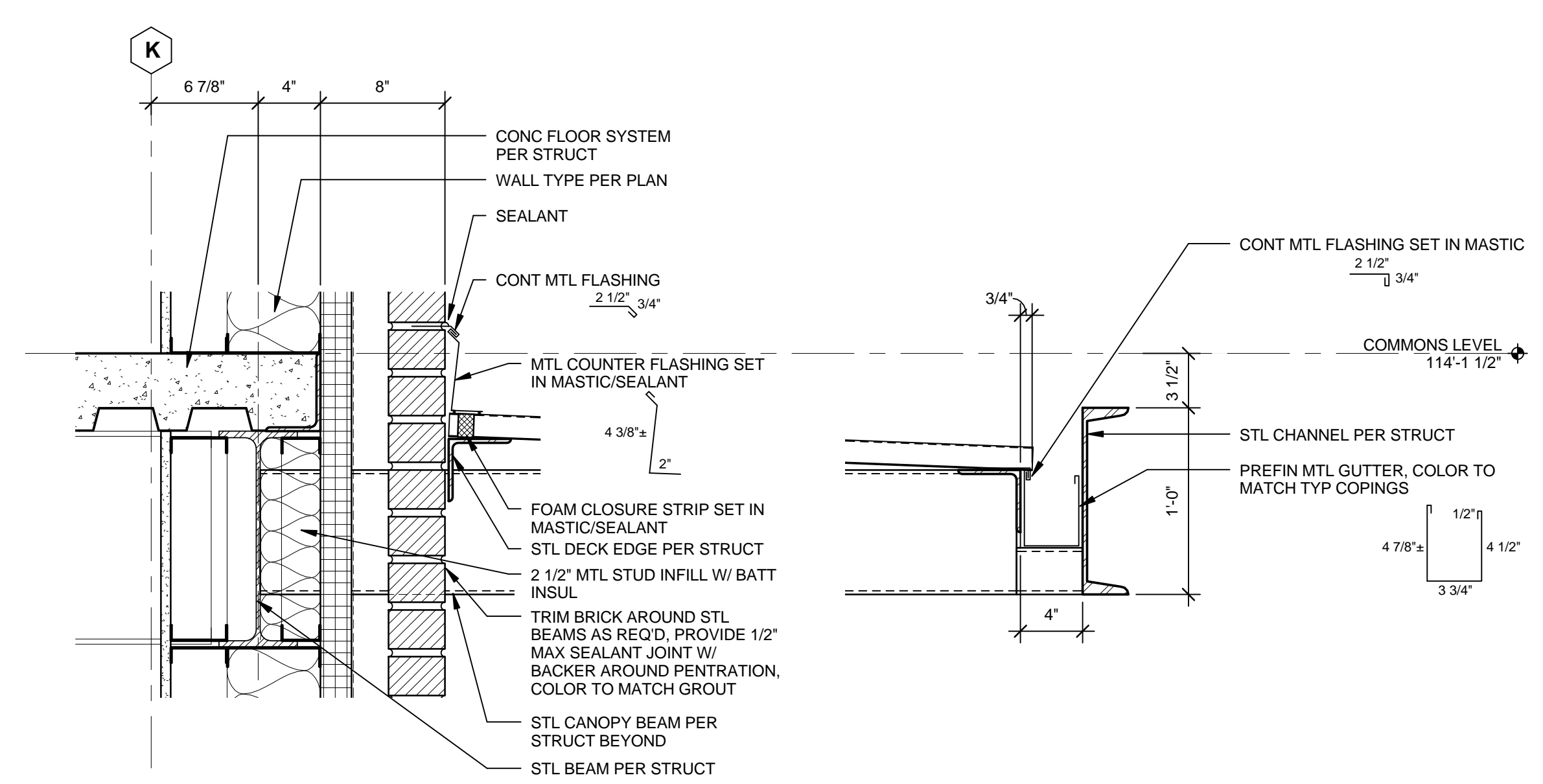
SPOKANE PUBLIC SCHOOL DISTRICT NO. 81
NORTH CENTRAL HS CAFETERIA/COMMONS ADDITION
 1800 NORTH HOWARD STREET, SPOKANE, WA 99205



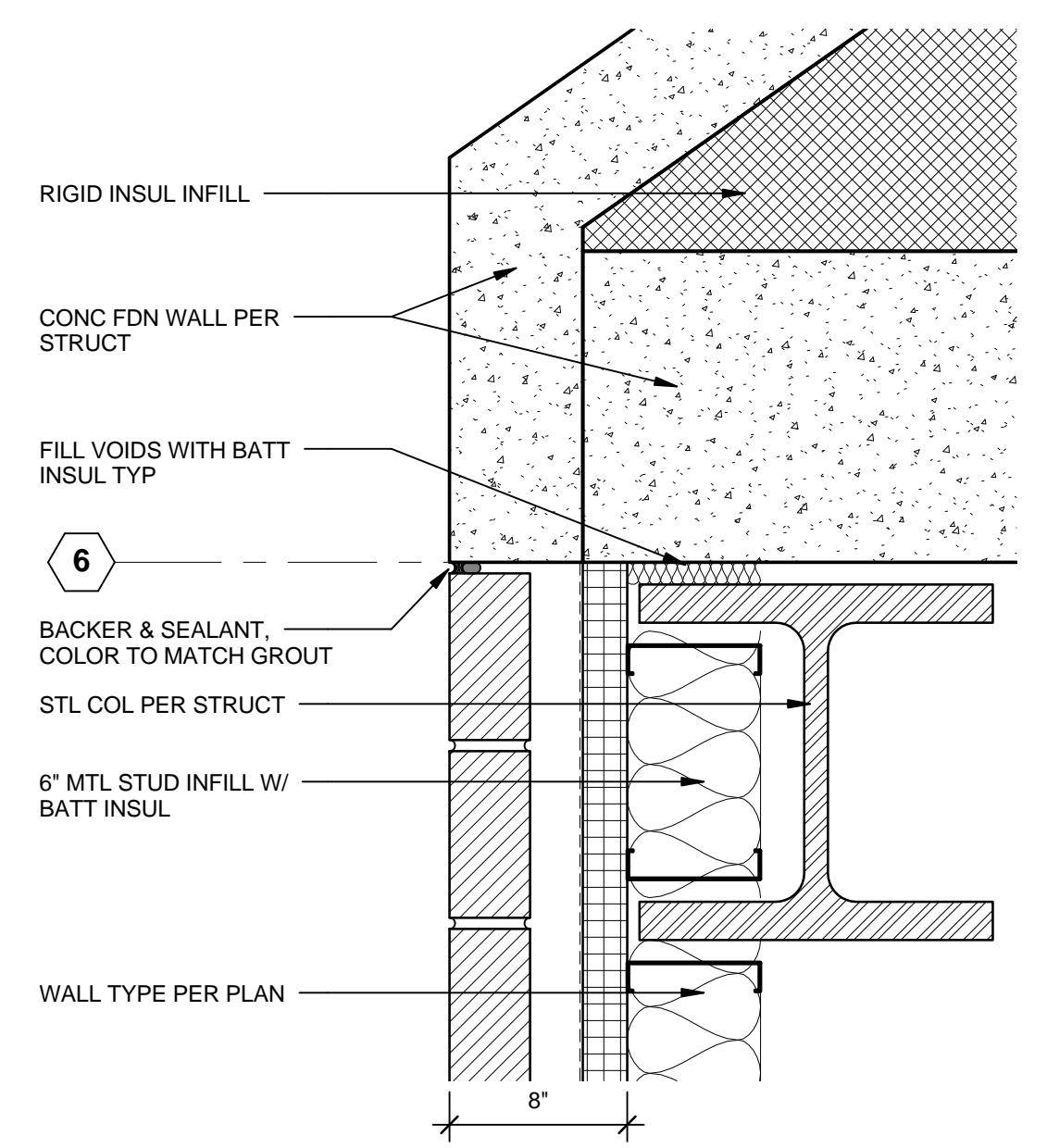
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 ARCHITECTURE
 nacarchitecture.com
 1203 WEST RIVERSIDE AVE
 SPOKANE, WA 99201
 P:509.838.8340

AEC NO: 111-15017
 DRAWN: SHN
 CHECKED: Checker
 DATE: 02/19/2016

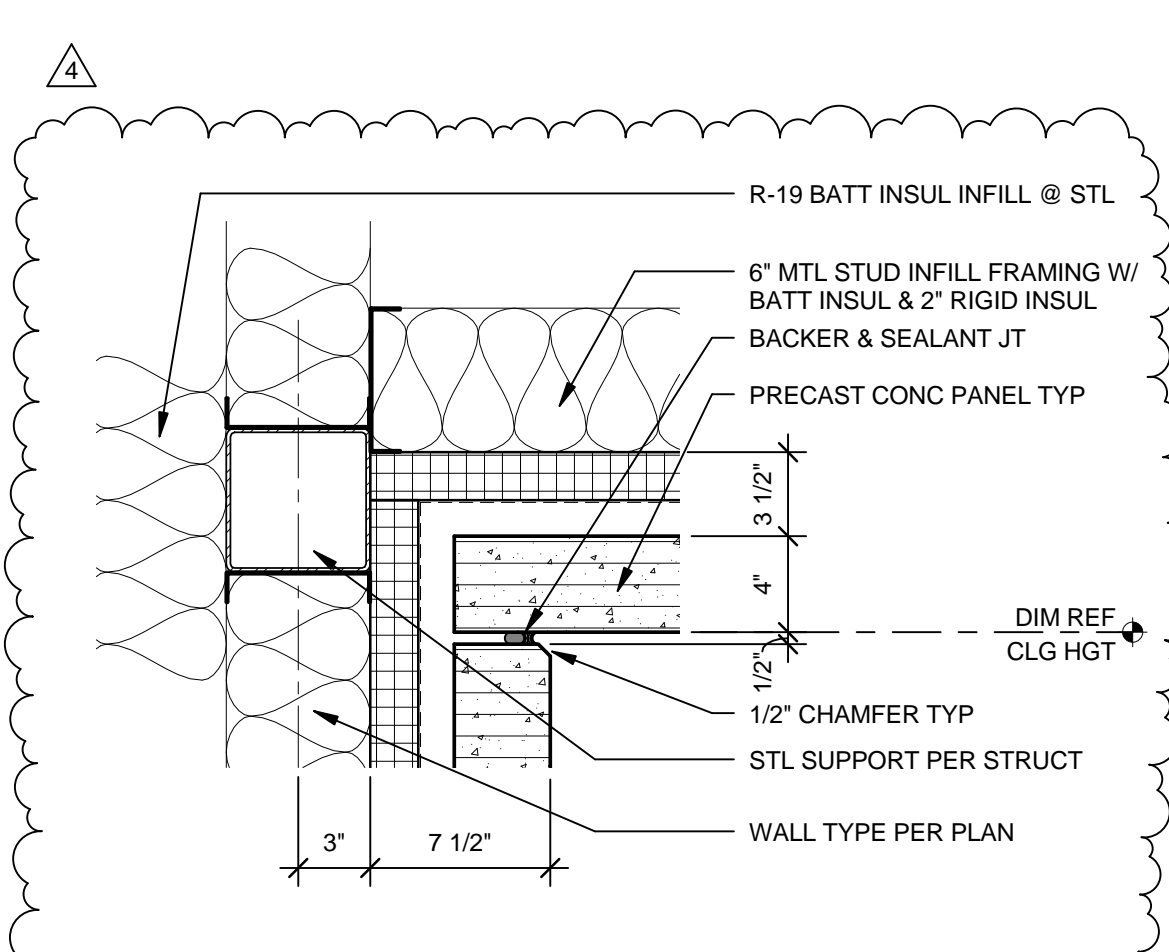
EXTERIOR DETAILS
CD
A5.12



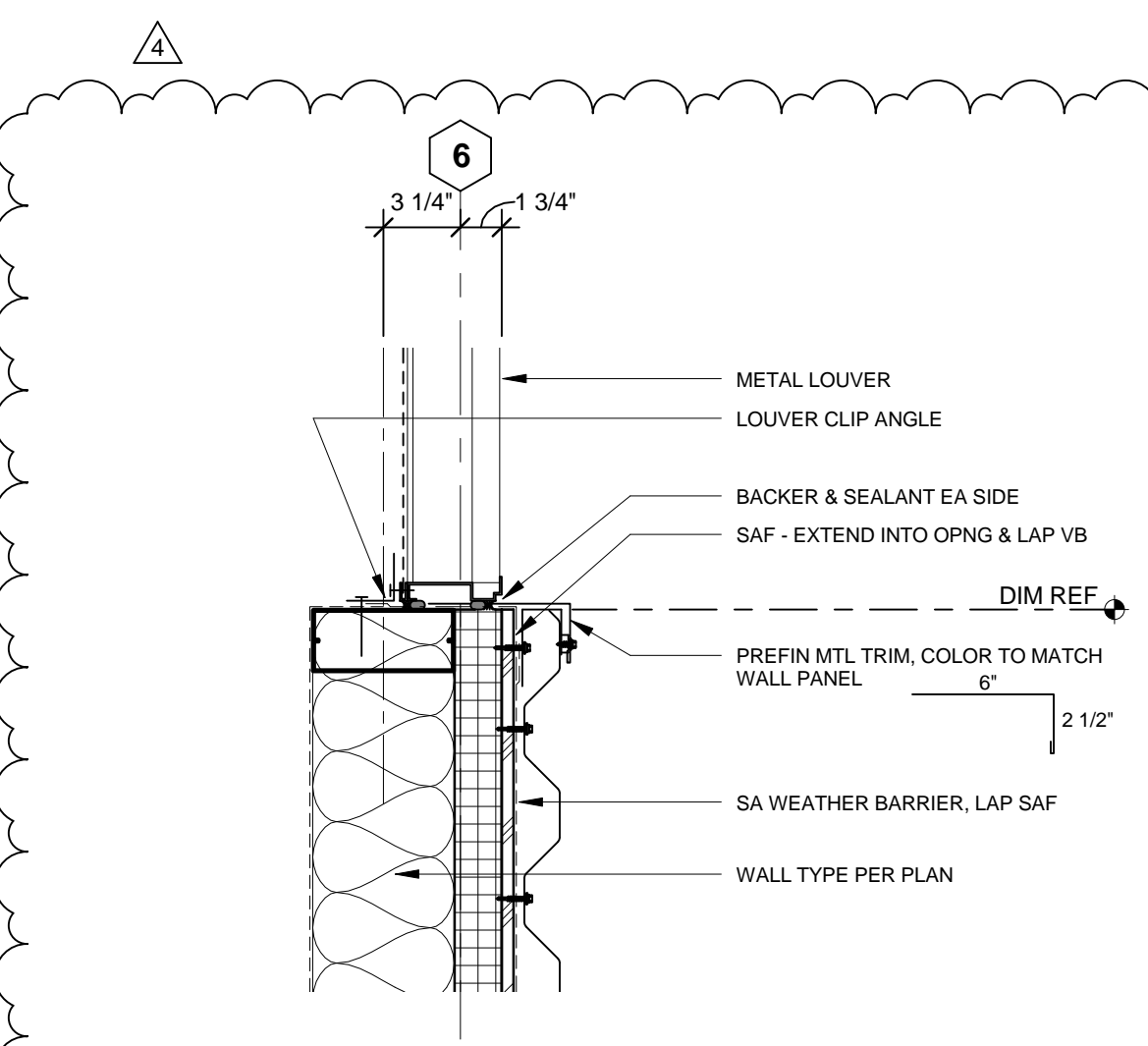
15 CANOPY SECTION
Scale: 1 1/2" = 1'-0"



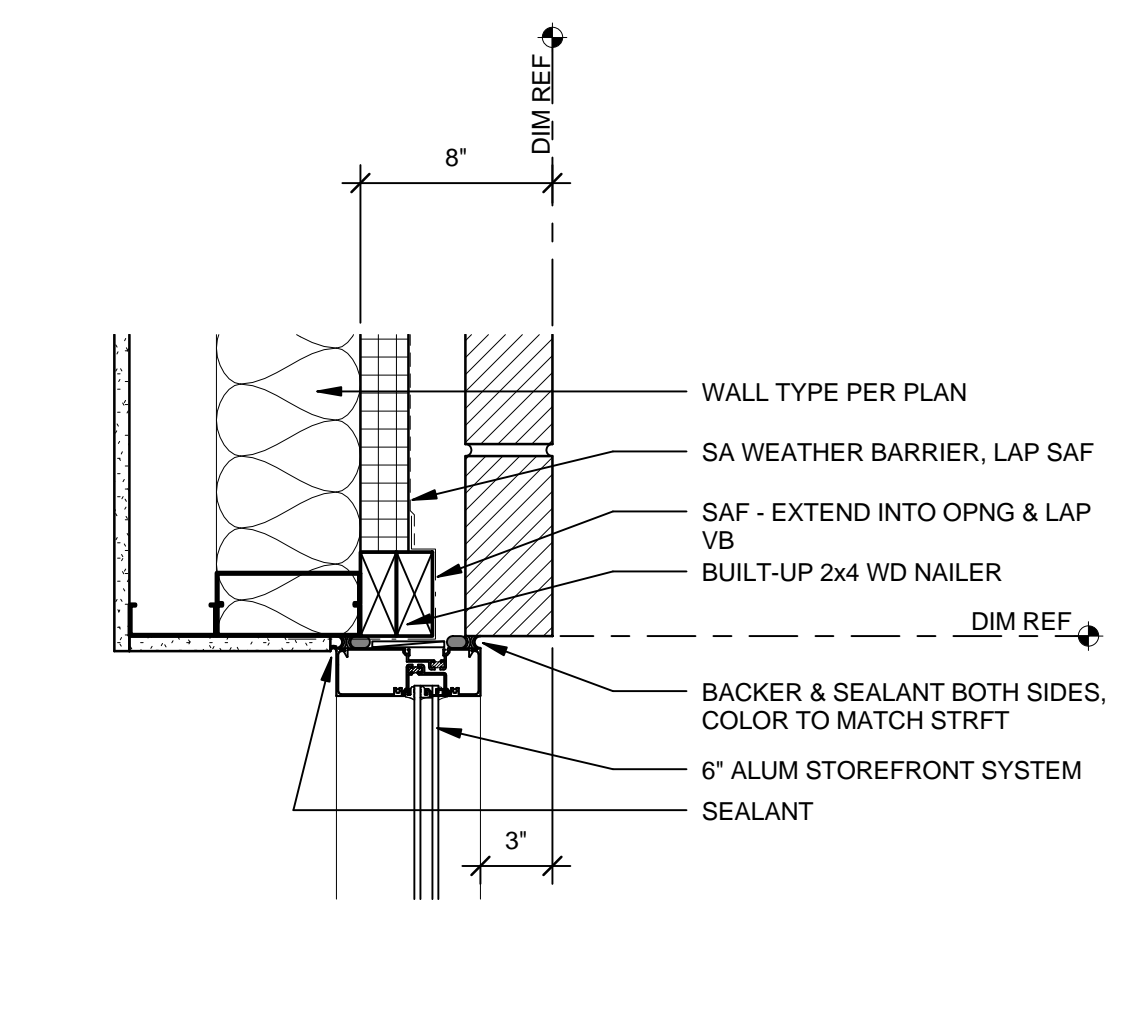
16 MASONRY DETAIL
Scale: 1 1/2" = 1'-0"



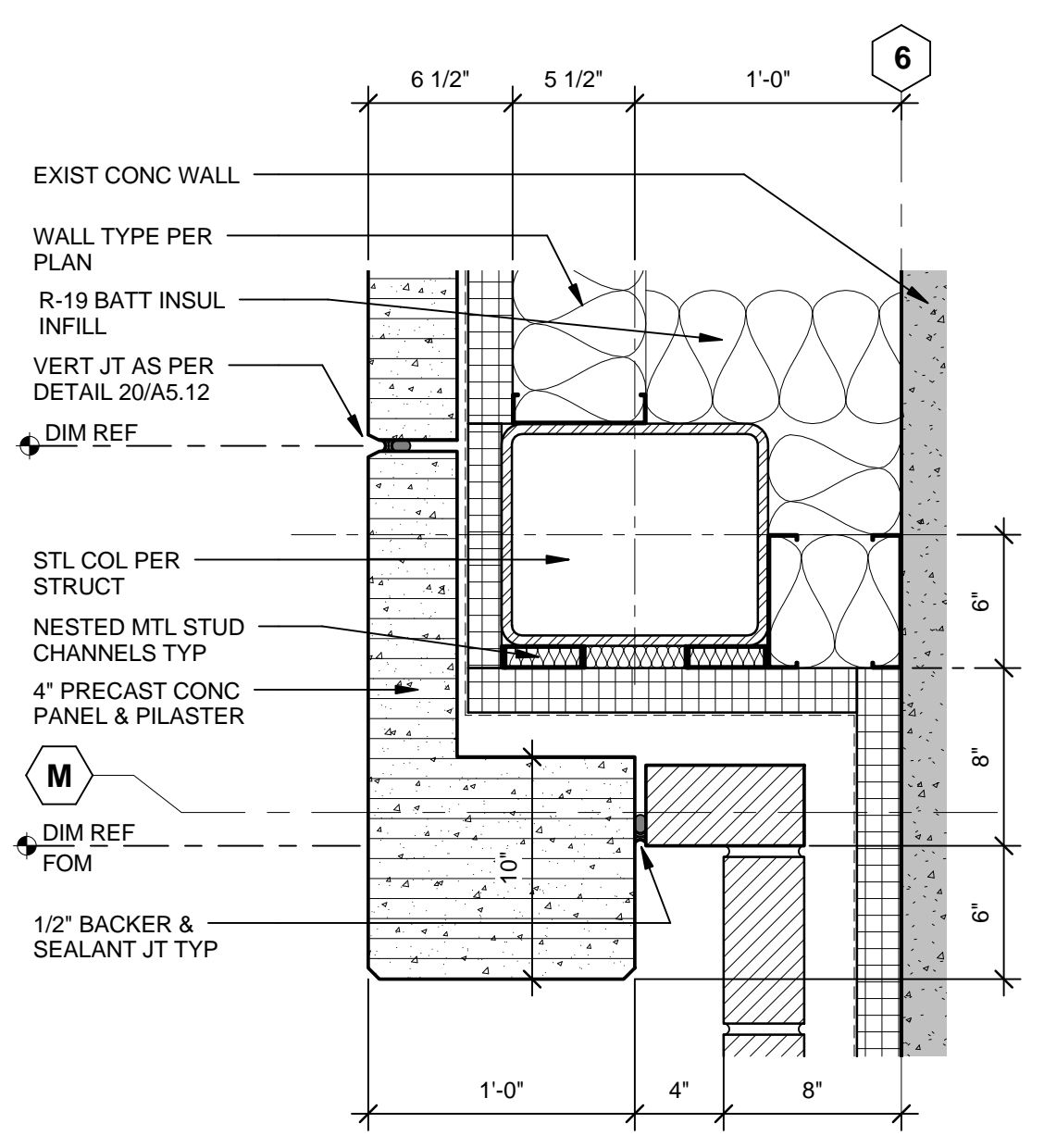
17 PRECAST PORTAL PANEL/SOFFIT
Scale: 1 1/2" = 1'-0"



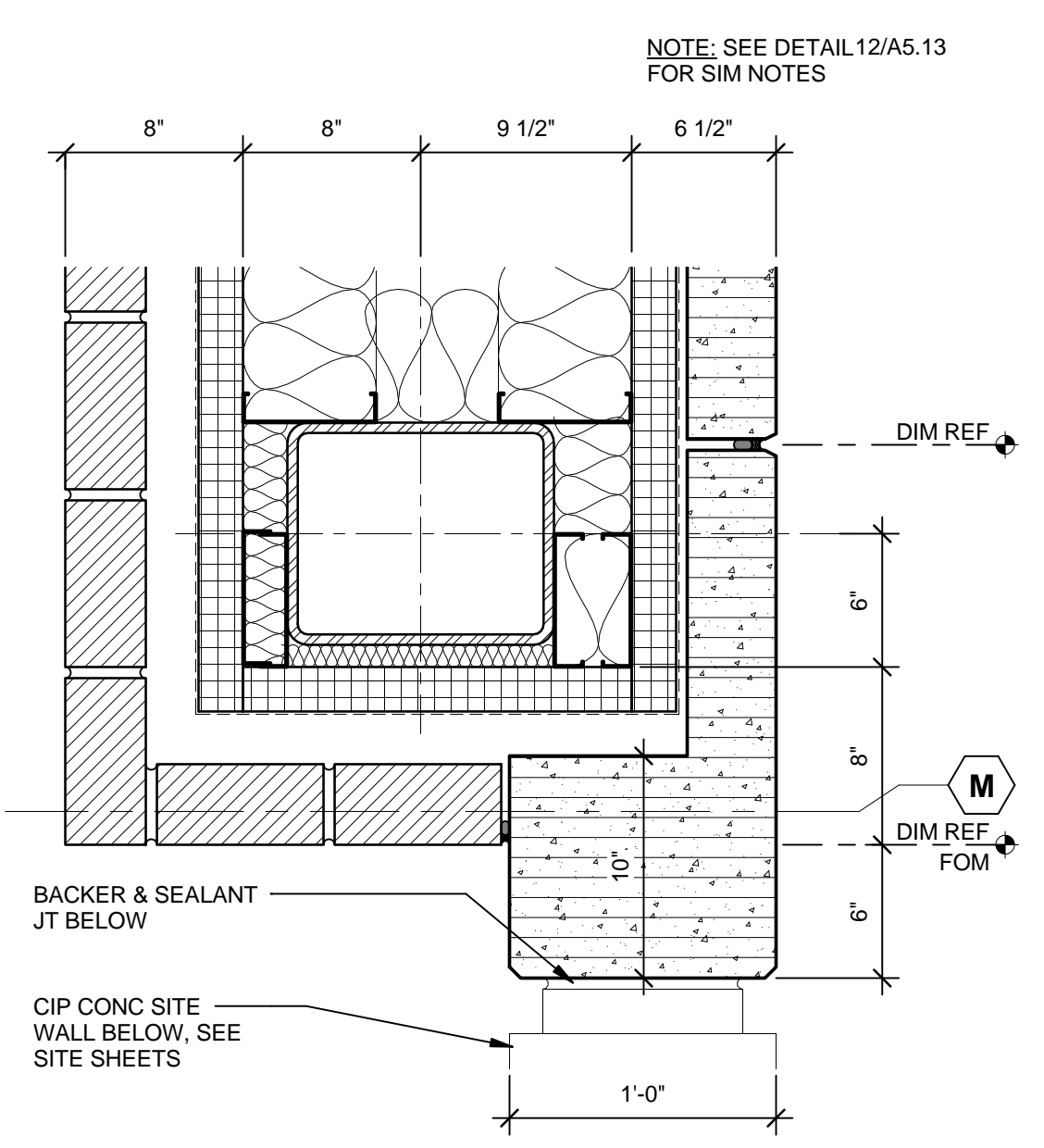
18 LOUVER JAMB
Scale: 1 1/2" = 1'-0"



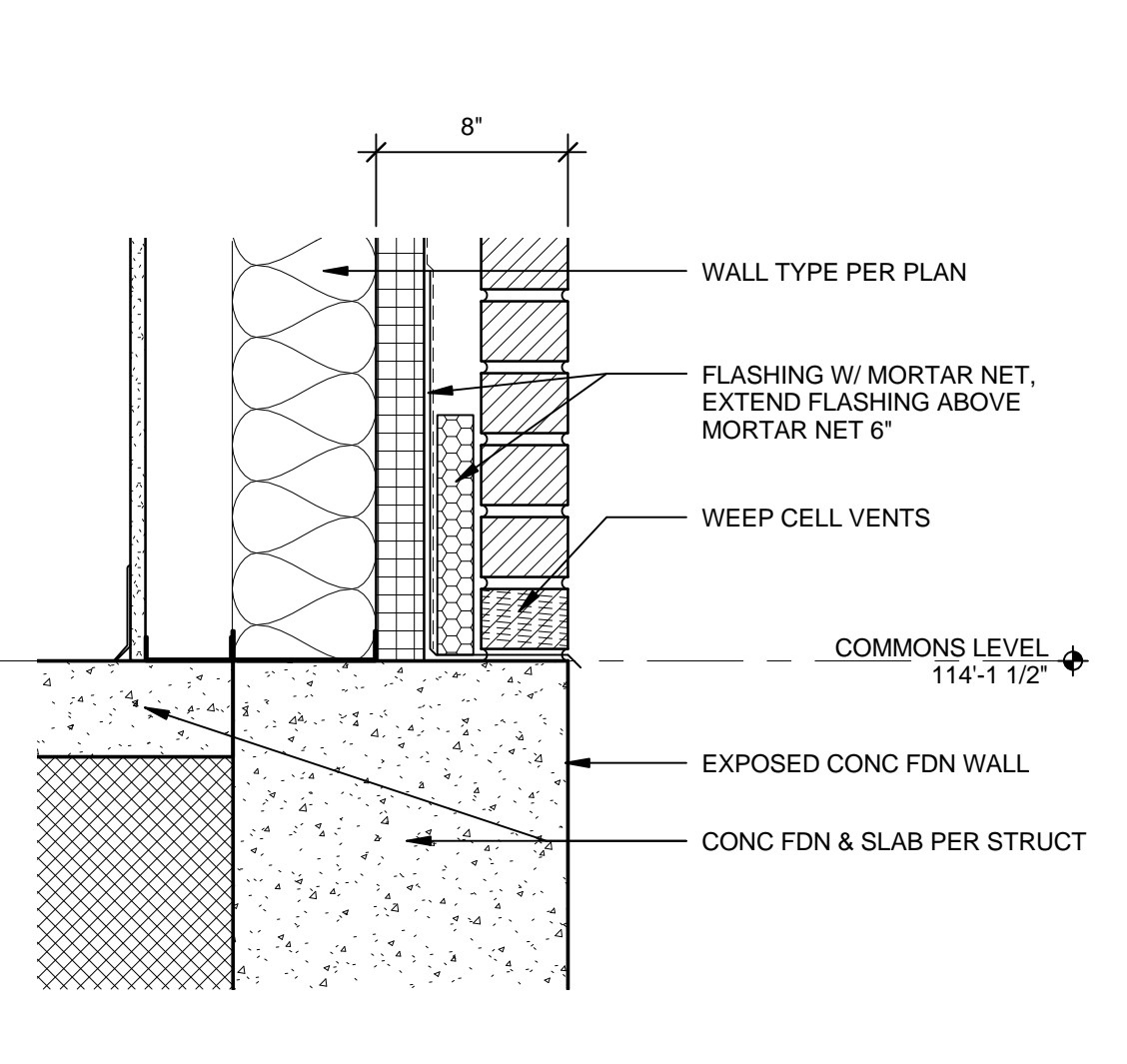
11 STOREFRONT JAMB
Scale: 1 1/2" = 1'-0"



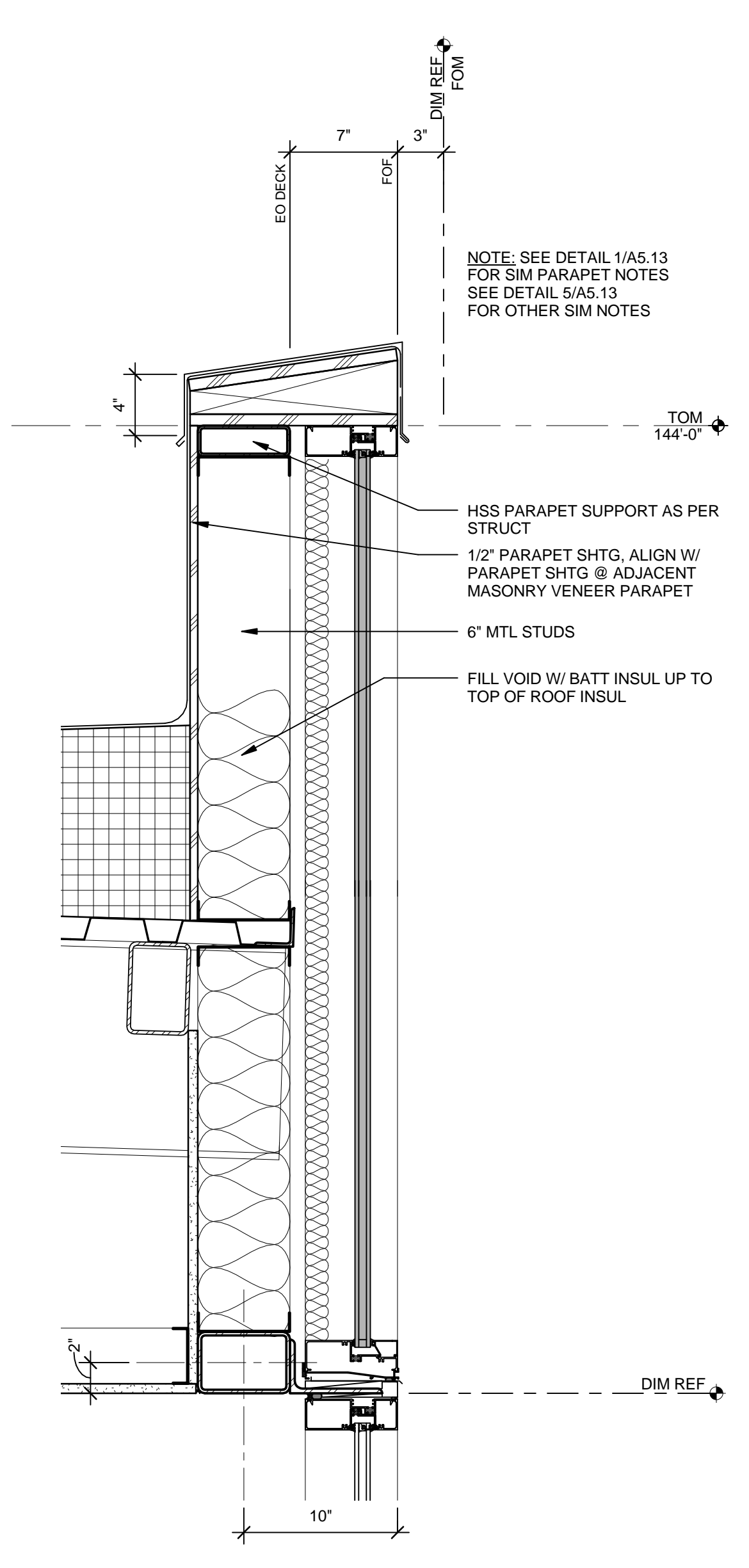
12 WEST PORTAL JAMB
Scale: 1 1/2" = 1'-0"



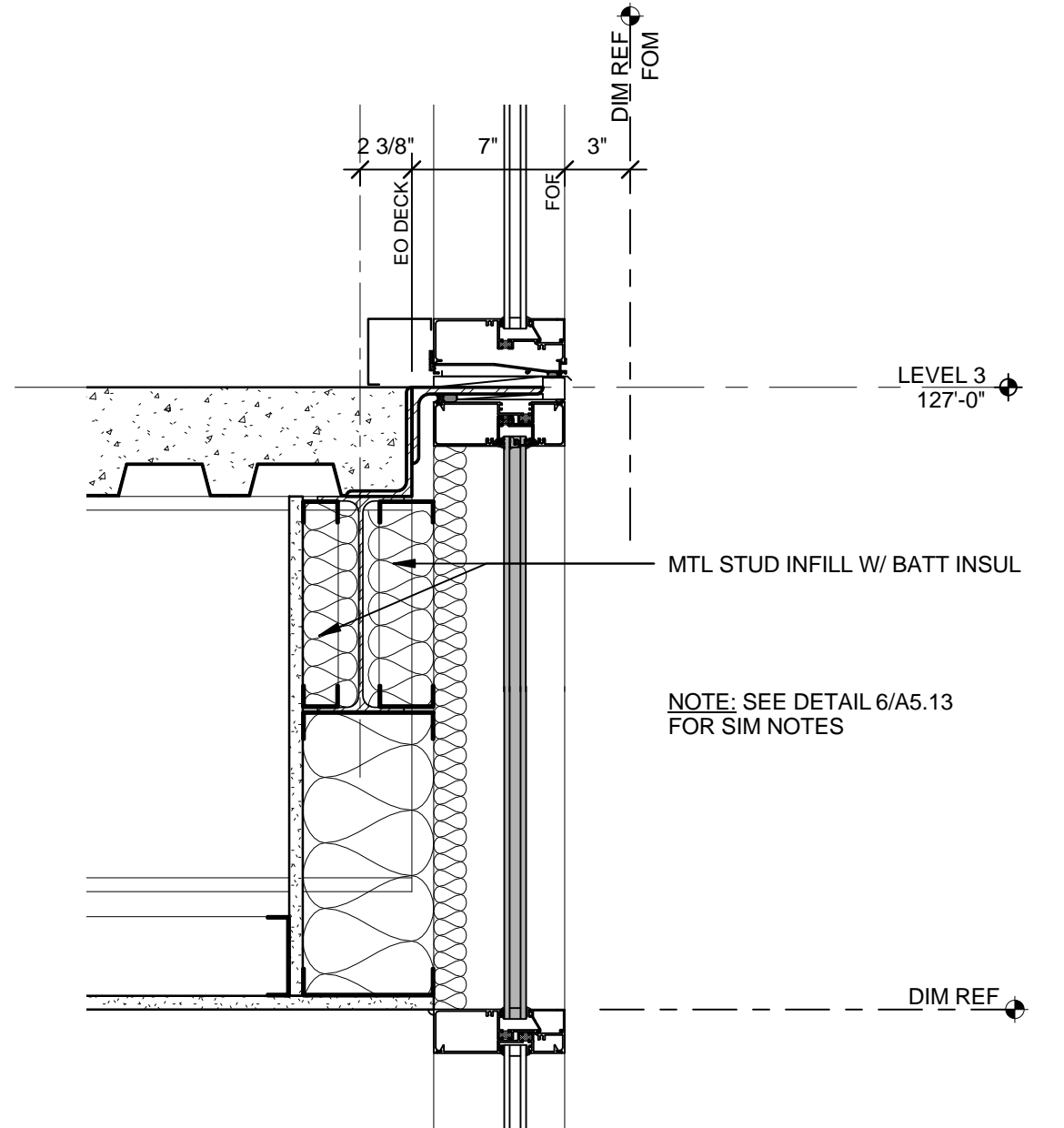
13 WEST PORTAL JAMB
Scale: 1 1/2" = 1'-0"



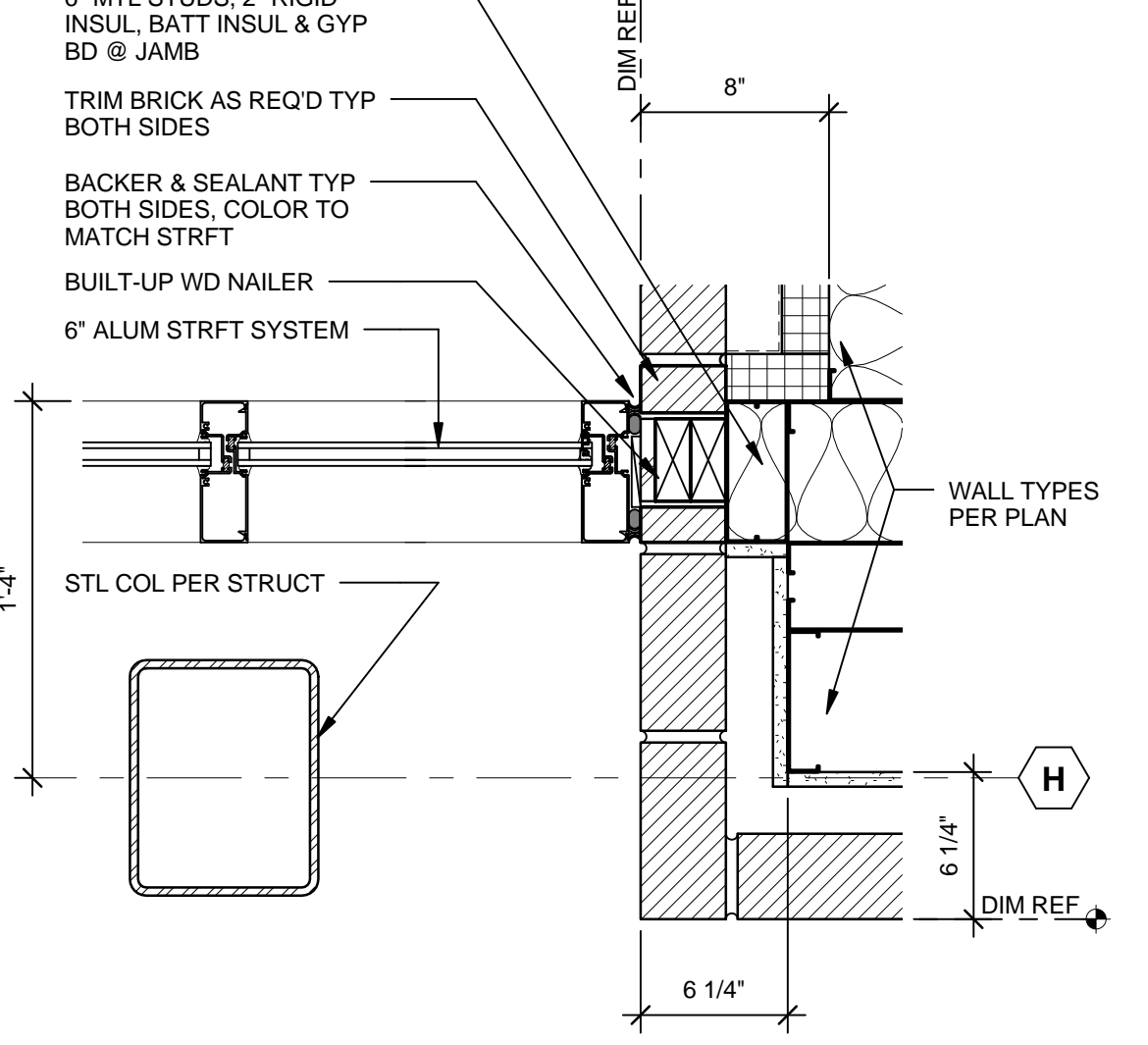
14 MASONRY @ FLOOR
Scale: 1 1/2" = 1'-0"



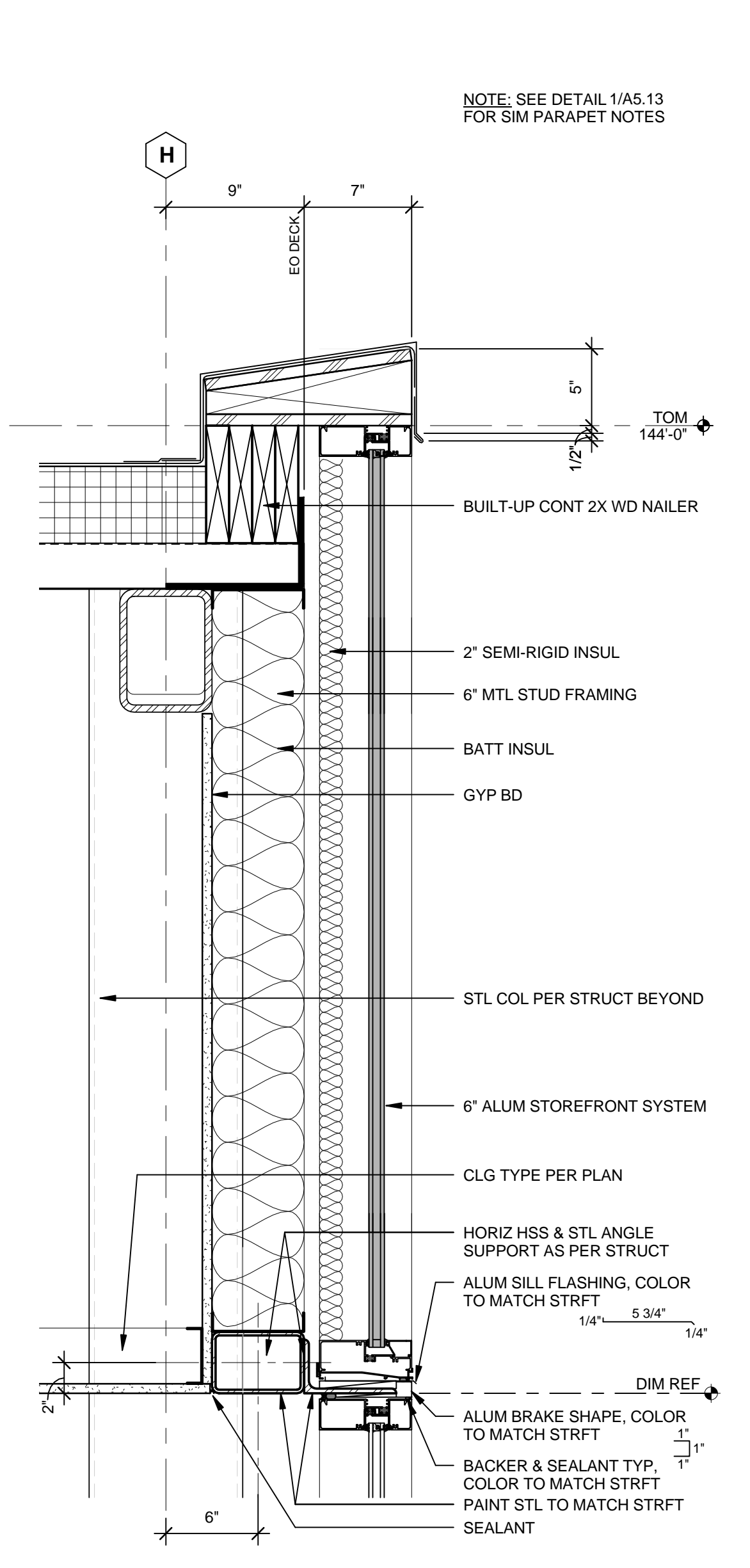
8 STOREFRONT @ ROOF
Scale: 1 1/2" = 1'-0"



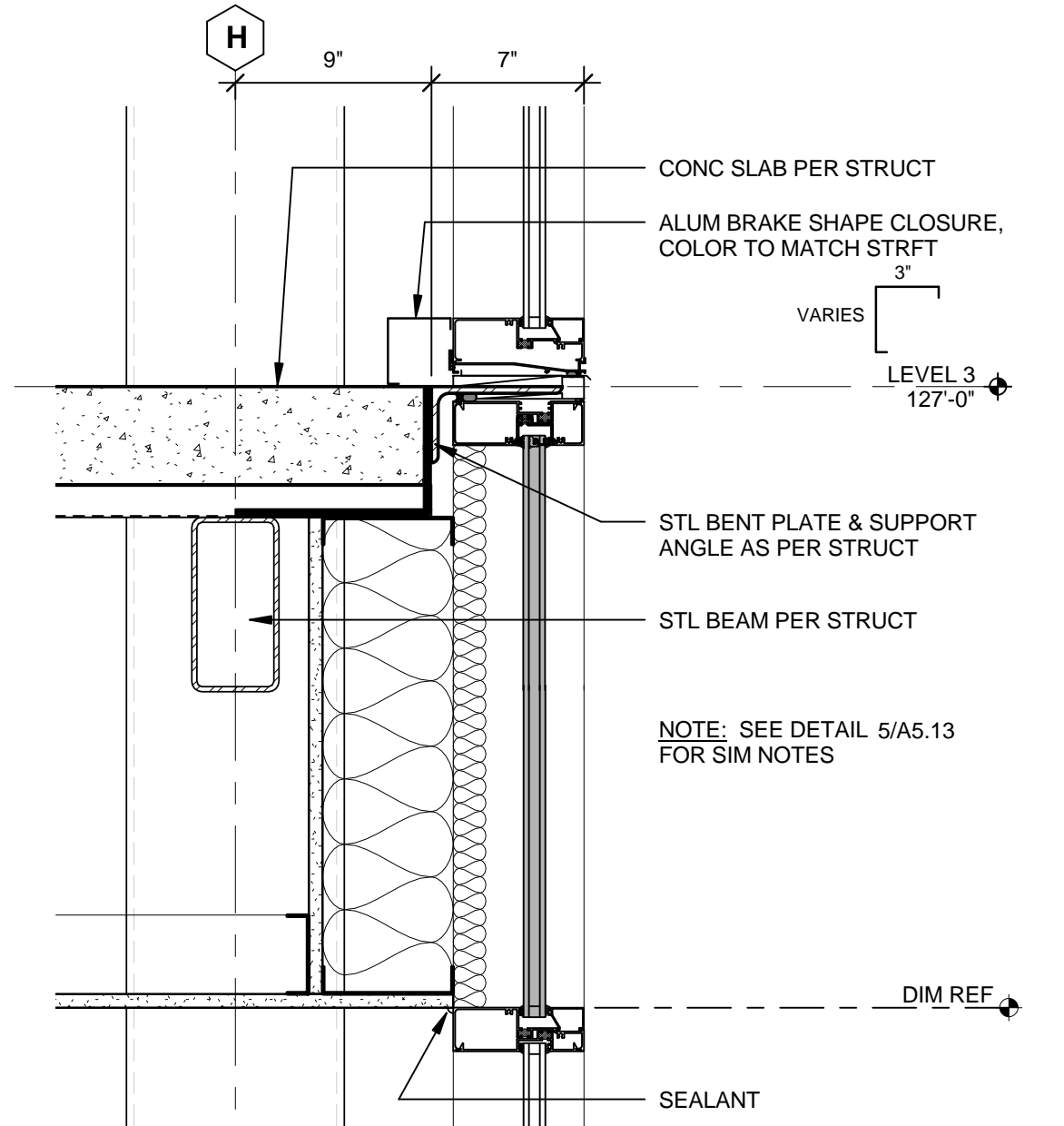
9 STOREFRONT @ LVL 3
Scale: 1 1/2" = 1'-0"



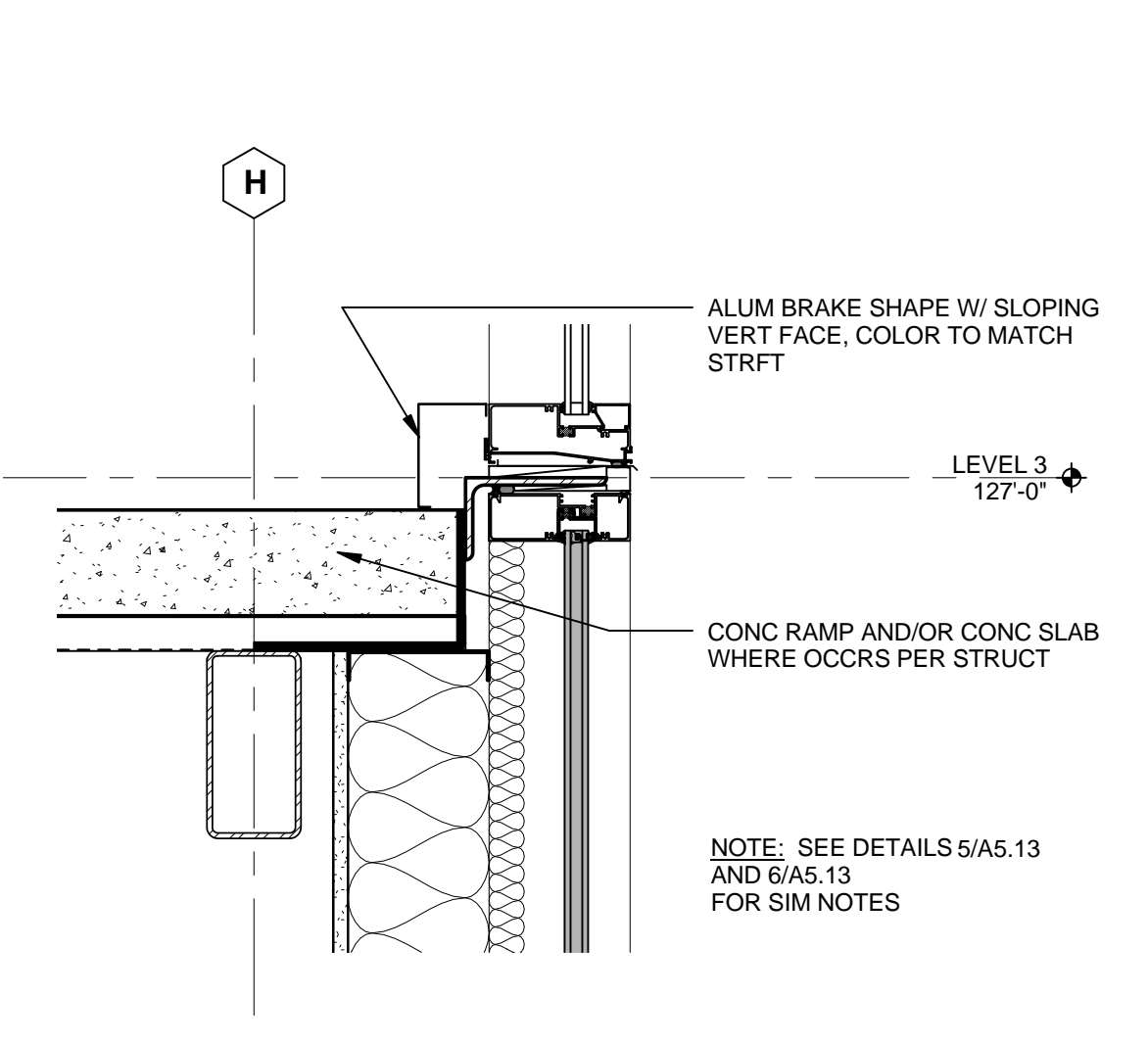
10 STOREFRONT JAMB
Scale: 1 1/2" = 1'-0"



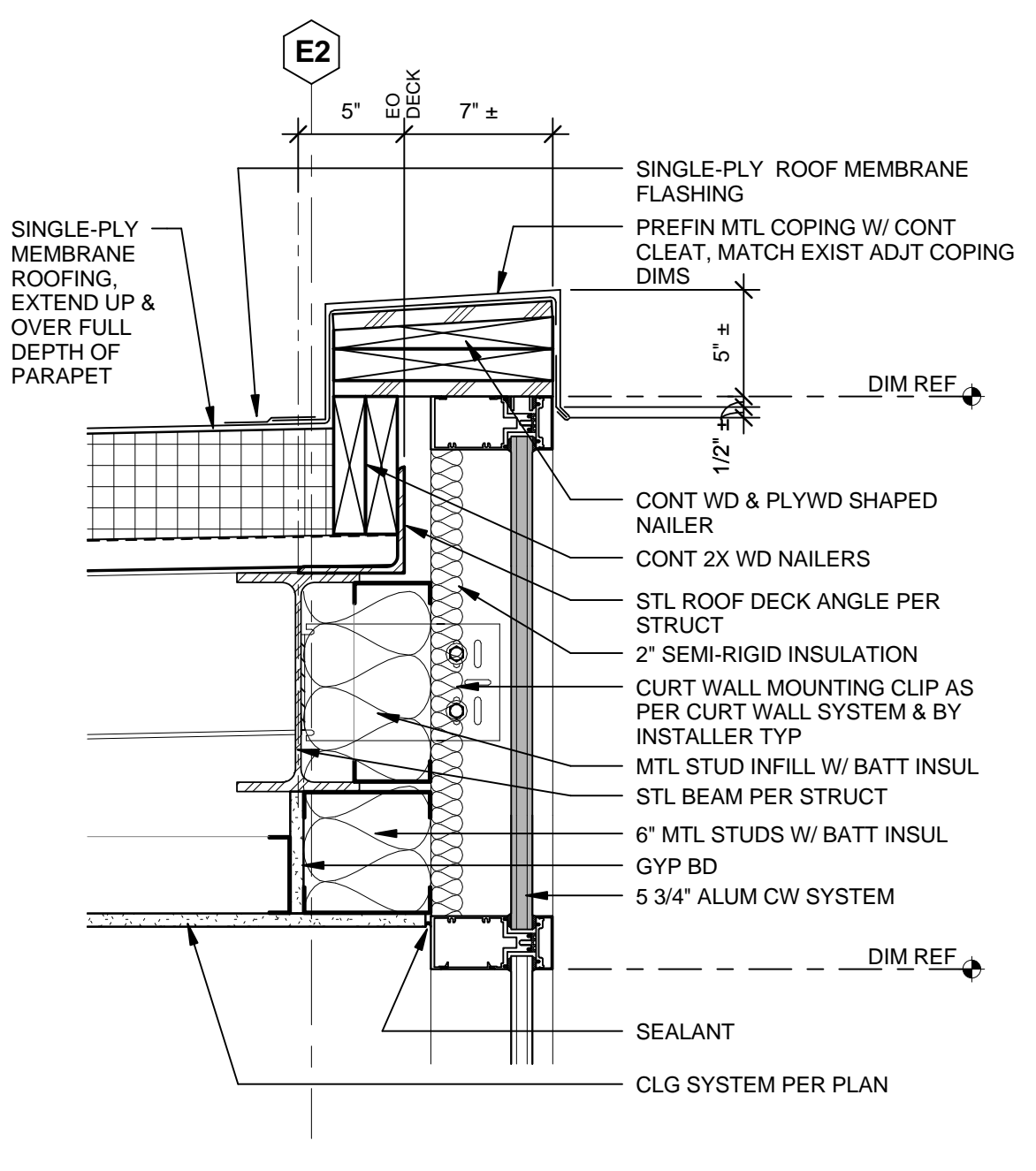
5 STOREFRONT @ ROOF
Scale: 1 1/2" = 1'-0"



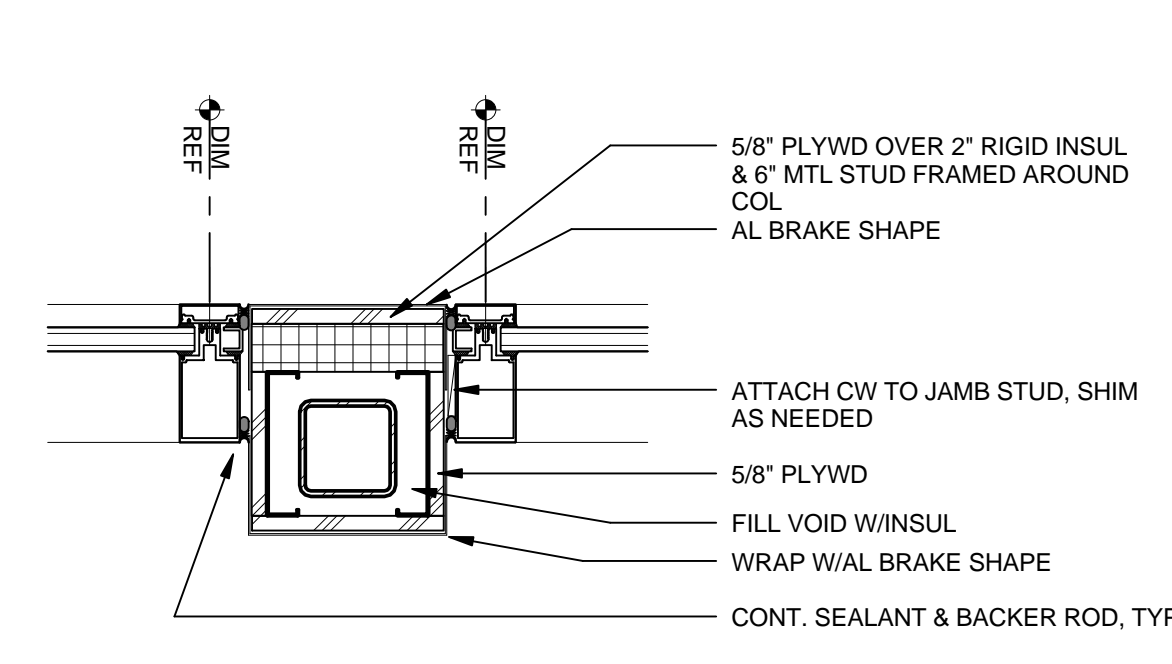
6 STOREFRONT @ LVL 3
Scale: 1 1/2" = 1'-0"



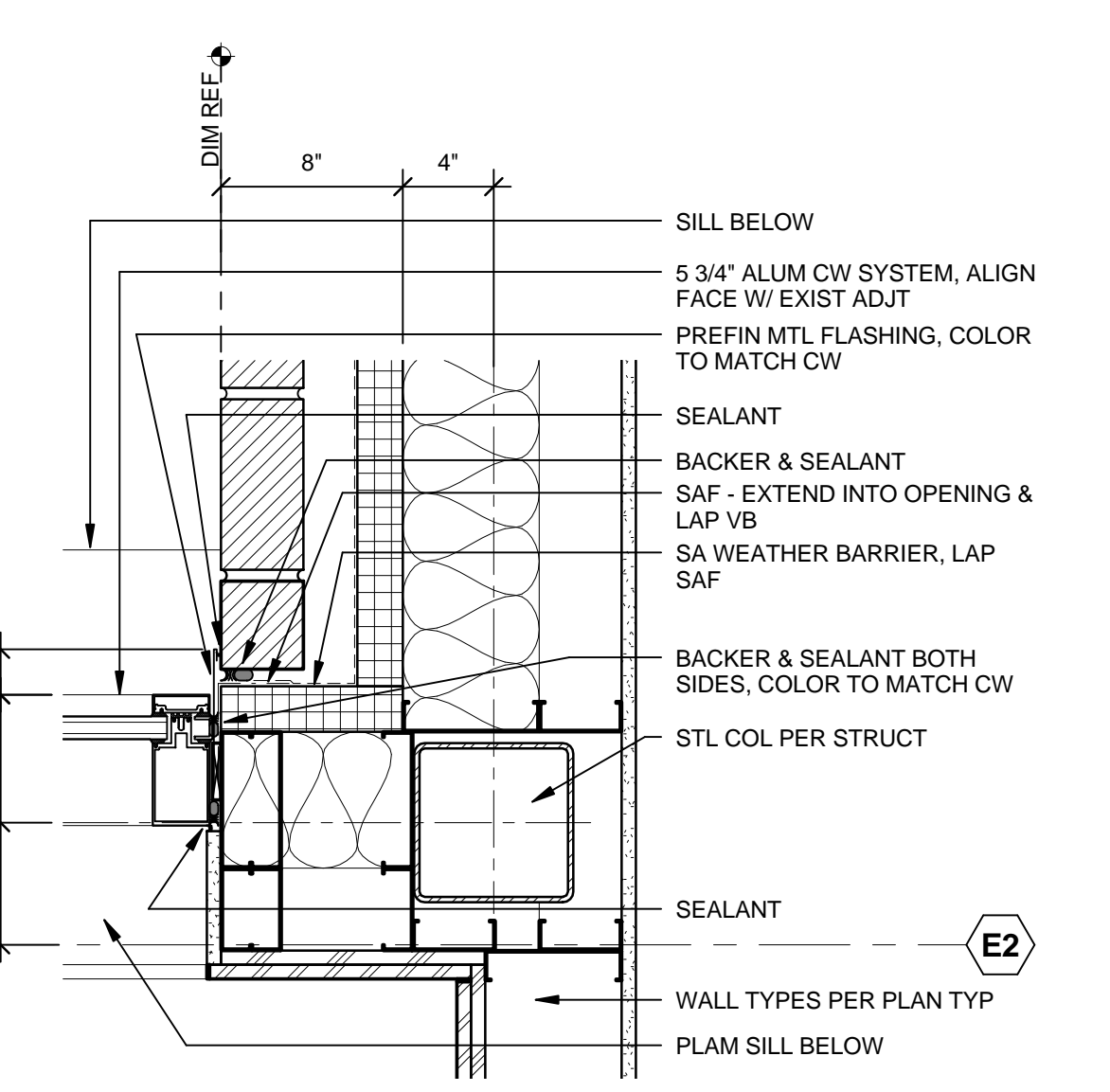
7 STOREFRONT @ LVL 3
Scale: 1 1/2" = 1'-0"



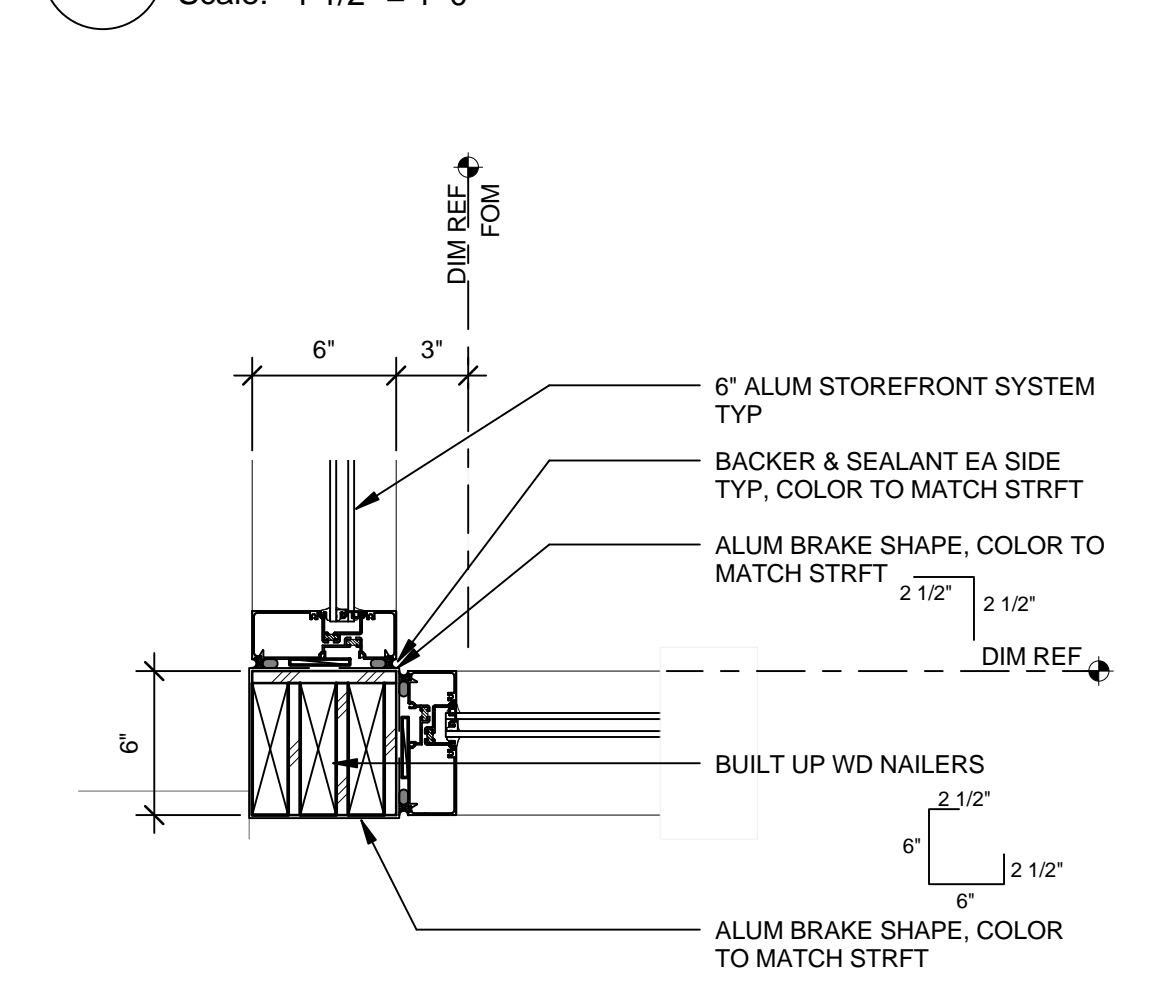
1 CURTAIN WALL @ ROOF
Scale: 1 1/2" = 1'-0"



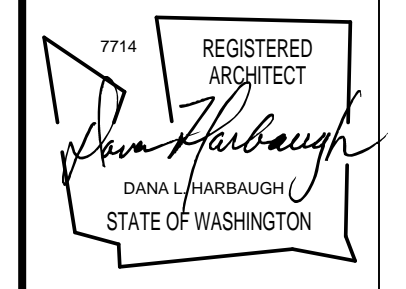
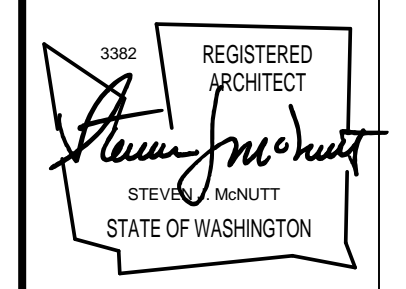
2 MULLION AT LEVEL 3
Scale: 1 1/2" = 1'-0"



3 CW JAMB / WALL CORNER
Scale: 1 1/2" = 1'-0"



4 STOREFRONT JAMB
Scale: 1 1/2" = 1'-0"



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 DRAWN: RSW
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 DATE: 02/19/2016

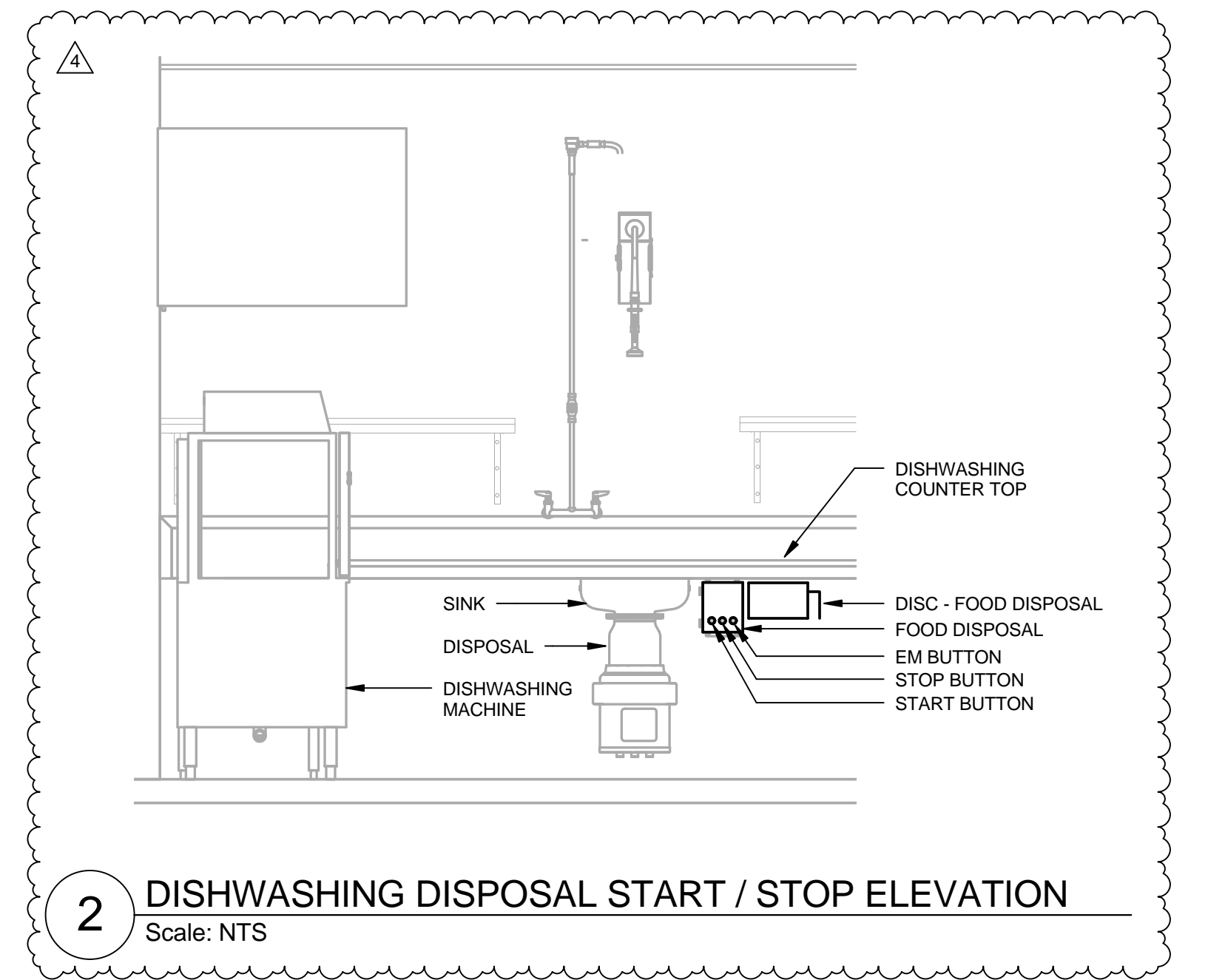
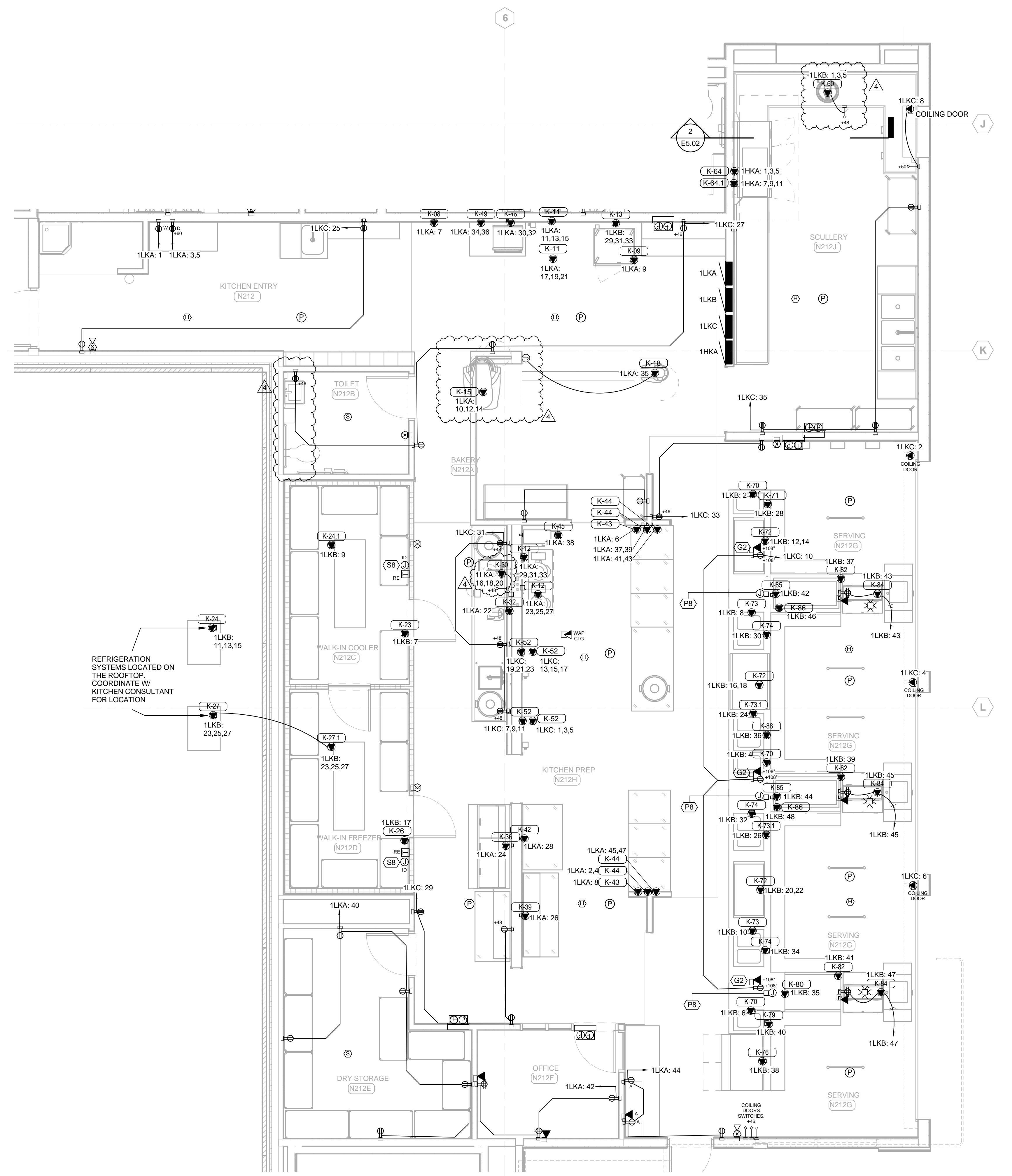
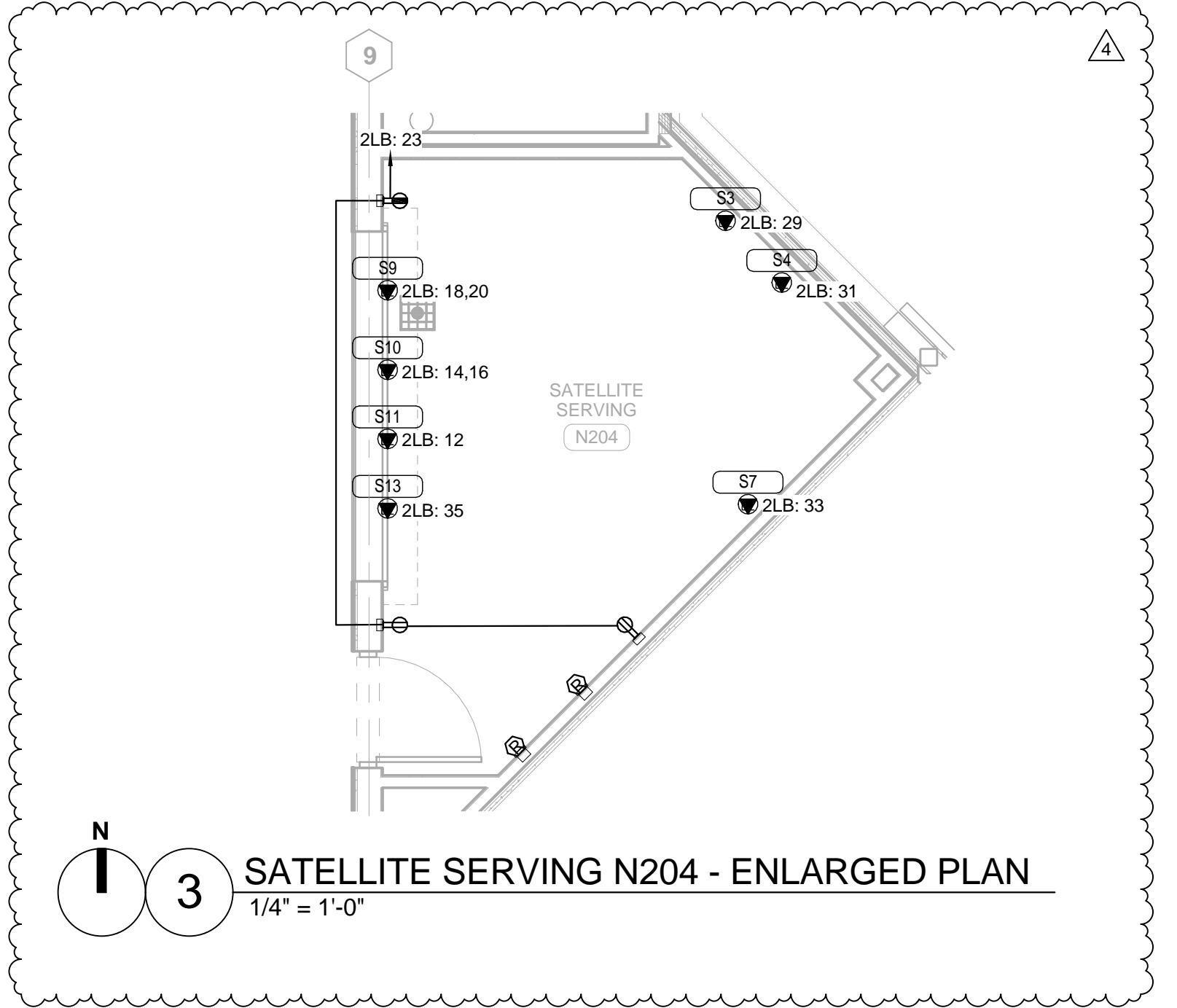
EXTERIOR DETAILS
CD
A5.13

- KITCHEN EQUIPMENT SCHEDULE - PHASE 2 -

EQMT #	DESCRIPTION	VOLT	PHASE	PNL	CCT	FLA	DISC SIZE	FUSE	COND SIZE	GROUND SIZE	RACEWAY SIZE	CONNECTION TYPE	CONN HEIGHT	REMARKS
K-08	REFRIGERATOR	120 V	1	1LKA	7	8	-	-	12	12	3/4"	NEMA 5-15P	7	
K-09	EXHAUST CANOPY - TYPE 1	120 V	1	1LKA	9	15	-	-	10	10	3/4"	DIRECT	9' 2"	
K-11	COMBIOVEN - DOUBLE	208 V	3	1LKA	17,19,21	46	-	-	4	10	1-1/4"	DIRECT	1'	SECOND CONNECTION AT 3' 6"
K-11	COMBIOVEN - DOUBLE	208 V	3	1LKA	11,13,15	46	-	-	4	10	1-1/4"	DIRECT	1'	SECOND CONNECTION AT 3' 6"
K-12	STEAM KETTLES	208 V	3	1LKA	23,25,27	17	-	-	10	10	3/4"	DIRECT	2'	
K-12	STEAM KETTLES	208 V	3	1LKA	29,31,33	17	-	-	10	10	3/4"	DIRECT	2'	
K-13	REHEAT OVEN	208 V	3	1LKB	29,31,33	33	-	-	6	10	1"	NEMA 6-50P	4'	
K-15	60-QT MIXER	208 V	3	1LKA	10,12,14	10	30/3	15	12	12	3/4"	DIRECT	4'	
K-18	20 QT MIXER	120 V	1	1LKA	35	8	-	-	12	12	3/4"	NEMA 5-15P	4'	CO MOUNTED ON WORK TABLE (ITEM 16)
K-23	WALK-IN COOLER	120 V	1	1LKB	7	15	30/1	20	10	10	3/4"	DIRECT	8' 6"	LOCATED ON ROOFTOP
K-24	COOLER CONDENSER	208 V	3	1LKB	11,13,15	20	60/3	30	8	10	1"	DIRECT	8' 6"	
K-24.1	COOLER EVAPORATOR	120 V	1	1LKB	9	3	20/1	5	12	12	3/4"	DIRECT	8' 6"	
K-26	WALK-IN FREEZER	120 V	1	1LKB	17	15	30/1	20	10	10	3/4"	DIRECT	8' 6"	
K-27	FREEZER CONDENSER	208 V	3	1LKB	23,25,27	29	60/3	45	4	10	1-1/2"	DIRECT	8' 6"	LOCATED ON ROOFTOP
K-27.1	FREEZER EVAPORATOR	208 V	3	1LKB	23,25,27	1	30/2	17.5	10	10	3/4"	DIRECT	8' 6"	PROVIDE SINGLE-PHASE CIRCUIT FROM CONDENSER
K-30	DISPOSER	208 V	3	1LKA	16,18,20	3	20/3	5	12	12	3/4"	DIRECT	2'	
K-32	FOOD PROCESSOR	120 V	1	1LKA	22	9	-	-	12	12	3/4"	NEMA 5-15P	4'	
K-36	REFRIGERATED PREP TABLE	120 V	1	1LKA	24	12	-	-	12	12	3/4"	NEMA 5-15P	1' 6"	
K-39	SLICER	120 V	1	1LKA	26	6	-	-	12	12	3/4"	NEMA 5-15P	4'	
K-42	REACH-IN REFRIGERATOR	120 V	1	1LKA	28	10	-	-	12	12	3/4"	NEMA 5-15P	7'	
K-43	PASS THRU REFRIGERATOR	120 V	1	1LKA	8	6	-	-	12	12	3/4"	NEMA 5-15P	7'	
K-43	PASS THRU REFRIGERATOR	120 V	1	1LKA	6	6	-	-	12	12	3/4"	NEMA 5-15P	7'	
K-44	PASS THRU HEATED CABINETS	208 V	1	1LKA	45,47	9	-	-	12	12	3/4"	DIRECT	7'	
K-44	PASS THRU HEATED CABINETS	208 V	1	1LKA	41,43	9	-	-	12	12	3/4"	DIRECT	7'	
K-44	PASS THRU HEATED CABINETS	208 V	1	1LKA	37,39	9	-	-	12	12	3/4"	DIRECT	7'	
K-45	EXHAUST CANOPY	120 V	1	1LKA	38	15	30/1	20	10	10	3/4"	DIRECT	9' 2"	
K-48	MICROWAVE OVEN	208 V	1	1LKA	30,32	28	-	-	8	10	1"	NEMA 6-30P	4'	
K-49	HOTWATER DISPENSER	208 V	1	1LKA	34,36	24	-	-	10	10	3/4"	NEMA 6-30P	4'	
K-52	COMBI-OVEN DOUBLE STACK	208 V	3	1LKC	1,3,5	48	-	-	4	10	1-1/4"	DIRECT	-	REFER TO KITCHEN PLAN FOR CONNECTION HEIGHT
K-52	COMBI-OVEN DOUBLE STACK	208 V	3	1LKC	13,15,17	48	-	-	4	10	1-1/4"	DIRECT	-	REFER TO KITCHEN PLAN FOR CONNECTION HEIGHT
K-52	COMBI-OVEN DOUBLE STACK	208 V	3	1LKC	7,9,11	48	-	-	4	10	1-1/4"	DIRECT	-	REFER TO KITCHEN PLAN FOR CONNECTION HEIGHT
K-52	COMBI-OVEN DOUBLE STACK	208 V	3	1LKC	19,21,23	48	-	-	4	10	1-1/4"	DIRECT	-	REFER TO KITCHEN PLAN FOR CONNECTION HEIGHT
K-60	DISPOSER	208 V	3	1LKB	1,3,5	6	20/3	9	12	12	3/4"	DIRECT	2'	
K-64	DISHMACHINE	480 V	3	1HKA	1,3,5	28	60/3	40	4	10	1-1/4"	DIRECT	5' 8"	
K-64.1	BOOSTER HEATER	480 V	3	1HKA	7,9,11	40	60/3	50	4	10	1-1/4"	DIRECT	5' 8"	
K-70	HOTWELL	120 V	1	1LKB	2	8	-	-	12	12	3/4"	DIRECT	1' 6"	
K-70	HOTWELL	120 V	1	1LKB	4	8	-	-	12	12	3/4"	DIRECT	1' 6"	
K-70	HOTWELL	120 V	1	1LKB	6	8	-	-	12	12	3/4"	DIRECT	1' 6"	
K-71	SNEEZE GUARD SINGLE	120 V	1	1LKB	28	5	-	-	12	12	3/4"	DIRECT	2' 6"	
K-72	HEATED DISPLAY CASE	208 V	1	1LKB	20,22	25	-	-	8	10	1"	L14-20P	2'	120/208V POWER REQUIREMENT
K-72	HEATED DISPLAY CASE	208 V	1	1LKB	12,14	25	-	-	8	10	1"	L14-20P	2'	120/208V POWER REQUIREMENT
K-72	HEATED DISPLAY CASE	208 V	1	1LKB	16,18	25	-	-	8	10	1"	L14-20P	2'	120/208V POWER REQUIREMENT
K-73	HOTWELLS DOUBLE	120 V	1	1LKB	10	17	-	-	10	12	3/4"	DIRECT	1' 6"	
K-73	HOTWELLS DOUBLE	120 V	1	1LKB	8	17	-	-	10	12	3/4"	DIRECT	1' 6"	
K-73.1	HOT/COLD WELL NORTH	120 V	1	1LKB	24	24	-	-	10	10	3/4"	DIRECT	1' 6"	
K-73.1	HOT/COLD WELL NORTH	120 V	1	1LKB	26	24	-	-	10	10	3/4"	DIRECT	1' 6"	
K-74	SNEEZE GUARD DOUBLE	120 V	1	1LKB	30	5	-	-	12	12	3/4"	DIRECT	2' 6"	
K-74	SNEEZE GUARD DOUBLE	120 V	1	1LKB	32	5	-	-	12	12	3/4"	DIRECT	2' 6"	
K-74	SNEEZE GUARD DOUBLE	120 V	1	1LKB	34	5	-	-	12	12	3/4"	DIRECT	2' 6"	
K-76	REFRIGERATED SANDWICH UNIT	120 V	1	1LKB	38	7	-	-	12	12	3/4"	NEMA 5-15P	1' 6"	
K-79	SNEEZE GUARD	120 V	1	1LKB	40	5	-	-	12	12	3/4"	DIRECT	2' 6"	
K-80	REFRIGERATED DISPLAY CASE	120 V	1	1LKB	35	12	-	-	12	12	3/4"	NEMA 5-15P	1' 6"	
K-82	MILK COOLERS	120 V	1	1LKB	41	7	-	-	12	12	3/4"	NEMA 5-15P	1' 6"	
K-82	MILK COOLERS	120 V	1	1LKB	39	7	-	-	12	12	3/4"	NEMA 5-15P	1' 6"	
K-82	MILK COOLERS	120 V	1	1LKB	37	7	-	-	12	12	3/4"	NEMA 5-15P	1' 6"	
K-84	POS MACHINES	120 V	1	1LKB	47	15	-	-	12	12	3/4"	-	-	FLOOR OUTLET. VERIFY DATA REQUIREMENT
K-84	POS MACHINES	120 V	1	1LKB	45	15	-	-	12	12	3/4"	-	-	FLOOR OUTLET. VERIFY DATA REQUIREMENT
K-84	POS MACHINES	120 V	1	1LKB	43	15	-	-	12	12	3/4"	-	-	FLOOR OUTLET. VERIFY DATA REQUIREMENT
K-85	DROP-IN COLD PAN	120 V	1	1LKB	42	7	-	-	12	12	3/4"	NEMA 5-15P	1' 6"	
K-85	DROP-IN COLD PAN	120 V	1	1LKB	44	7	-	-	12	12	3/4"	NEMA 5-15P	1' 6"	
K-86	SNEEZE GUARD	120 V	1	1LKB	46	5	-	-	12	12	3/4"	DIRECT	2' 6"	
K-86	SNEEZE GUARD	120 V	1	1LKB	48	5	-	-	12	12	3/4"	DIRECT	2' 6"	
K-86	SNEEZE GUARD	120 V	1	1LKB	36	5	-	-	12	12	3/4"	DIRECT	2' 6"	

- SATELLITE SERVING EQUIPMENT SCHEDULE - PHASE 2 -

EQMT #	DESCRIPTION	VOLT	PHASE	PNL	CCT	FLA	DISC SIZE	FUSE	COND SIZE	GROUND SIZE	RACEWAY SIZE	CONNECTION TYPE	CONN HEIGHT	REMARKS
S3	HOT TRANSPORT CARTS	120 V	1	2LB	29	12	-	-	12	12	3/4"	5-20P	-	
S4	MICROWAVE OVEN	120 V	1	2LB	31	18	-	-	12	12	3/4"	5-20P	-	
S7	GLASS DOOR REFRIGERATOR	120 V	1	2LB	33	7	-	-	12	12	3/4"	5-20P	-	
S9	HEATED DISPLAY CASE	208 V	1	2LB	18,20	14	-	-	12	12	3/4"	L14-20P	-	
S10	HOT/COLD WELLS	208 V	1	2LB	14,16	9	-	-	12	12	3/4"	-	-	
S11	SNEEZE GUARD - ADJUSTABLE	120 V	1	2LB	12	5	-	-	12	12	3/4"	5-20P	-	
S13	POS MACHINE	120 V	1	2LB	35	15	-	-	12	12	3/4"	5-20P	-	



SPOKANE PUBLIC SCHOOL DISTRICT NO. 81
NORTH CENTRAL HS CAFETERIA/COMMONS ADDITION
1800 NORTH HOWARD STREET, SPOKANE, WA 99205

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AKC NO: 111-15017
REVISION: E5.02 / CD
DRAWN: KVT
CHECKED: NBH
DATE: 03/04/2016

KITCHEN ENLARGED PLAN
CE-05
ADDENDUM #4

- FOUNDATION PLAN NOTES:**
- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01, S1.02, AND S1.03.
 - VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL EXISTING DIMENSIONS AND EXISTING INFORMATION SHALL BE FIELD VERIFIED AS REQUIRED TO COORDINATE WITH NEW WORK.
 - CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING WITH OTHERS PRIOR TO POURING CONCRETE: ALL DOOR OPENINGS IN FOUNDATION WALLS, DRAINS AND SLOPES, BLOCKOUTS FOR PLUMBING, SPRINKLERS AND HVAC, ALL DUCTS, CHASES AND PIPES PER MECHANICAL PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS, STAIR DETAILS AND GUARDRAILS PER ARCHITECTURAL DRAWINGS.
 - TOP OF SLAB (T/SLAB) ELEVATION PER PLAN. PROVIDE VAPOR BARRIER BELOW SLAB AT INTERIOR SPACES AS REQUIRED PER SPECIFICATIONS. PROVIDE FREE-DRAINING GRANULAR FILL PER GEOTECH REPORT.
 - TYPICAL TOP OF INTERIOR (I/INTERIOR) FOOTING ELEVATION PER PLAN. TYPICAL TOP OF EXTERIOR (E/EXTERIOR) FOOTING ELEVATIONS PER PLAN.
 - ALL FOOTINGS AND SLABS TO BEAR ON PROPERLY COMPACTED SAND & GRAVEL BACKFILL. SUBGRADE PREPARATION, STRUCTURAL FILL, FOOTING DRAINS, AND OTHER REQUIREMENTS PER GEOTECH REPORT AS NOTED IN THE STRUCTURAL GENERAL NOTES.
 - CJ INDICATES CONTROL JOINT PER PLAN.
 - MOISTURE PROOF ALL CONCRETE STEM AND BASEMENT WALLS PER ARCHITECT.
 - STEEL STAIRS SHALL BE BIDDER-DESIGNED, UNO. APPLICABLE DESIGN REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
 - ALL EXTERIOR WALL STUDS AT ALL LEVELS TO BE 600S162.54 @ 16"OC TYPICAL, UNLESS NOTED OTHERWISE. BOTTOM TRACK 600T150.54. TOP TRACK TO BE DEFLECTION TRACK TO MATCH STUD WIDTH AND GAUGE. WHERE DEFLECTION TRACK NOT REQUIRED MATCH BOTTOM TRACK AT TOP AND BOTTOM TRACK PER 1/5S.03 AT 10' STUDS. BOTTOM TRACK 1000T200.68. TOP TRACK TO BE DEFLECTION TRACK TO MATCH STUD WIDTH & GAUGE. AT PARAPET 600S162.54 @ 16"OC. TOP & BOTTOM TRACK 800T160.54. TYPICAL UNO. PROVIDE FLAT STRAP BRIDGING PER 2/5S.03 AT THIRD POINTS.
 - WHERE NEW WORK OR DEMO WORK REQUIRES THE REPLACEMENT OF SLAB ON GRADE, THE FOLLOWING SHOULD BE APPLIED: REPLACEMENT SLAB TO BE 4" SLAB ON GRADE WITH H3 @ 15"OC EACH WAY CENTERED IN SLAB. (2) MINIMUM EACH WAY FOR SMALL PATHES. DOWEL TO EXISTING SLAB PER 1/5S.03.
 - TYPICAL DETAILS PER:

- 1/5S.01 TYPICAL LAP SPLICE SCHEDULE
- 2/5S.01 PIPE OR CONDUIT EMBEDDED IN SLAB ON GRADE
- 3/5S.01 PLAN, TYPICAL CORNER REINFORCING AT CONCRETE WALLS
- 4/5S.01 TYPICAL ANCHOR BOLT SCHEDULE
- 6/5S.01 STANDARD HOOKS AND BAR BENDS
- 8/5S.01 PLAN, TYPICAL CORNER REINFORCING AT CONCRETE WALLS
- 9/5S.01 TYPICAL CONCRETE WALL OPENING REINFORCEMENT
- 11/5S.01 TYPICAL STEPPED FOOTING
- 12/5S.01 TYPICAL DEPRESSED SLAB DETAIL
- 16/5S.01 TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING
- 19/5S.01 TYPICAL BASE PLATE CONFIGURATIONS
- 20/5S.01 TYPICAL STEP AT SLAB ON GRADE
- 1/5S.02 TYPICAL CONCRETE WALL STEP
- 1/5S.03 TYPICAL NEW CONCRETE TO EXISTING CONCRETE
- 6/5S.03 TYPICAL SAWCUT IN EXISTING CONCRETE WALL OR SLAB
- 11/5S.03 NEW EXISTING SLAB JOINT

PILE CAP SCHEDULE

TYPE	NUMBER OF PILES	DIMENSIONS			REFERENCE DETAIL	COMMENTS
		WIDTH	LENGTH	THICKNESS		
3P	3	4'-0"	3'-0"	2'-0"	8/5S.04	1-2
4P	4	4'-0"	4'-0"	2'-0"	13/5S.04	1-2
6P	6	5'-1"	6'-0"	2'-9"	5/5S.05	1-2
6PA	6	6'-0"	6'-0"	2'-9"	10/5S.05	1-2

NOTES:
 1. (X) INDICATES QUANTITY OF PILES WITH 56K/85K ASD/LRFD COMPRESSION LOAD INDICATED FOR EACH PILE PER SCHEDULE REFERENCE 4/5S.04.
 2. (S) INDICATES QUANTITY OF PILES WITH COMPRESSION & TENSION LOADS INDICATED FOR EACH PILE PER SCHEDULE DESIGNATIONS WITHOUT IT DO NOT REQUIRE TENSION LOADS INDICATED IN SCHEDULE REFERENCE 9/5S.04.

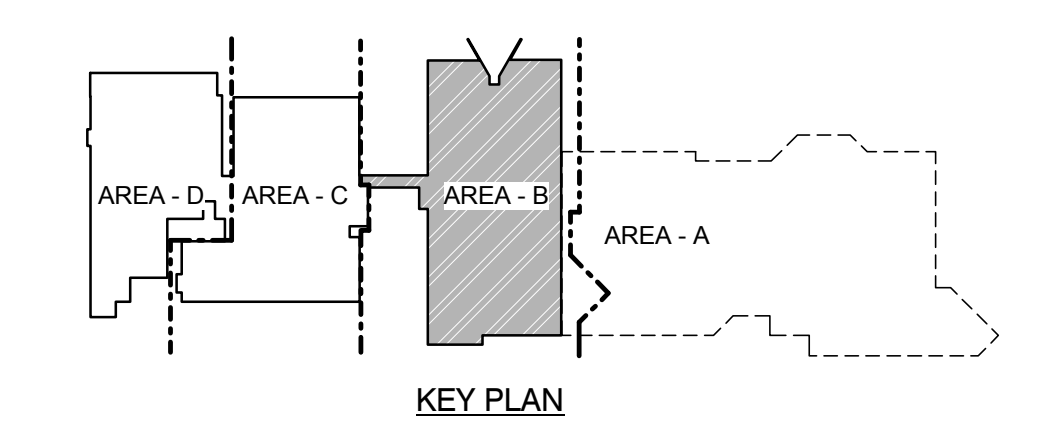
TYPE	COMPRESSION LOAD		TENSION LOAD		PILE DIAMETER	
	ASD	LRFD	ASD	LRFD	MAX	MIN
3P	56K	85K			6"	4"
4P	56K	85K			6"	4"
6P	70K	94K	20K	25K	6"	4"
6PA	56K	85K	31K	43K	6"	4"

GRADE BEAM SCHEDULE

TYPE	DIMENSIONS		REINFORCING	COMMENTS
	WIDTH	DEPTH		
GRADE BEAM 1	1'-6"	4'-0"	(3) #5 T&B & #4 TIES @ 16"OC & #4 HORIZ @ 10"OC EF	
GRADE BEAM 2	1'-8"	4'-6"	(2) #5 T&B & #4 TIES @ 12"OC & #4 HORIZ @ 14"OC EF	
GRADE BEAM 3	2'-0"	5'-10 1/2"	(5) #5 T&B & #4 TIES @ 12"OC & #5 HORIZ @ 12"OC EF	
GRADE BEAM 4	1'-4"	3'-0"	(3) #7B & (3) #5T & #4 TIES @ 12"OC & #4 HORIZ @ 12"OC EF	
GRADE BEAM 5	1'-2"	3'-0"	(2) #5 T&B & #4 TIES @ 12"OC & #4 HORIZ @ 14"OC EF	
GRADE BEAM 6	1'-11"	4'-0"	(4) #5 T&B & #4 TIES @ 12"OC & #5 HORIZ @ 10"OC EF	

SPREAD FOOTING

TYPE	DIMENSIONS			REINFORCING	COMMENTS
	LENGTH	WIDTH	DEPTH		
F6.0	11'-0"	6'-6"	2'-0"	(13) #6 T&B LONGIT & (9) #6 T&B TRANSV	
F7.0	11'-0"	7'-0"	2'-0"	(13) #6 T&B LONGIT & (9) #6 T&B TRANSV	
F8.0	4'-6"	6'-3"	1'-6"	(8) #6 T&B LONGIT & (6) #5 T&B TRANSV	



FIELD LEVEL - AREA B
 SCALE: 1/8" = 1'-0"

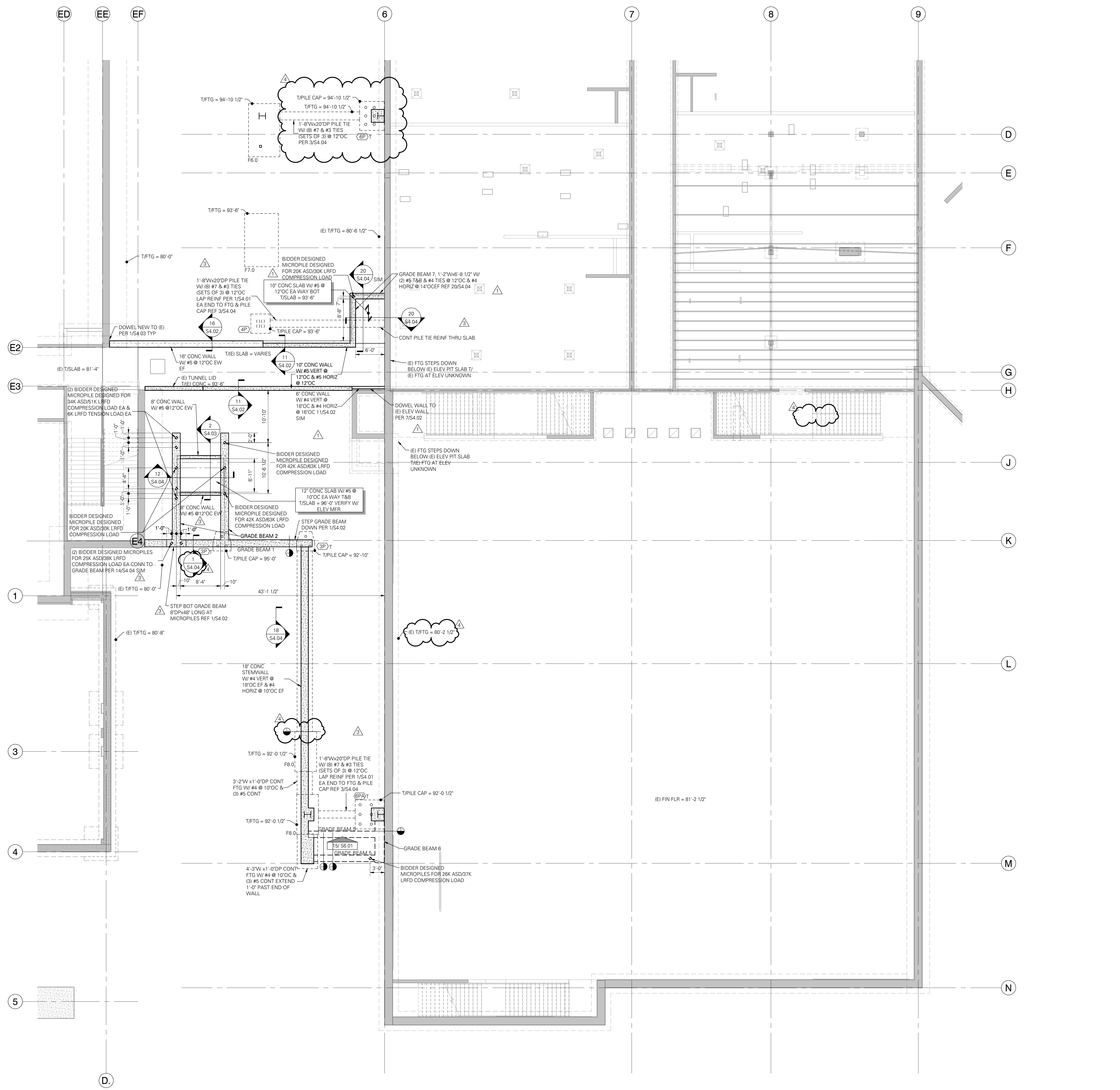
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NO: 111-15017
 DRN: JLJ
 CKD: LMB
 DATE: 02/19/16

CD
S3.00



SLAB AND DECK / DIAPHRAGM SCHEDULE						
TYPE	CONCRETE THICKNESS	STEEL DECK	TOTAL THICKNESS	DECK ATTACHMENT		
				SUPPORTS PERPENDICULAR TO DECK SPAN	SUPPORTS PARALLEL TO DECK SPAN	SIDLAP
D1	NA	1-1/2" DPX20GA (B)	NA	(7) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18"OC	BP @ 24"OC
D2	NA	3" DPX18GA (N3)	NA	(4) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18"OC	BP @ 24"OC
D3	NA	1-5/16" DP VERCOR 20GA	NA	14/55.04	14/55.04	14/55.04
S1	3-1/2"	1-1/2" DPX20GA (B) COMPOSITE	5"	(4) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18"OC	BP @ 24"OC
S2	3"	3" DPX18GA (W3)	6"	(4) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18"OC	BP @ 12"OC
S3	6"	1-1/2" DPX20GA (B) COMPOSITE	7-1/2"	(4) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18"OC	BP @ 24"OC

- NOTES:**
- CONCRETE TO BE NORMAL WEIGHT.
 - DECK SHALL BE GALVANIZED. FLOOR DECK SHALL BE COMPOSITE STEEL DECK.
 - REINFORCE SLAB WITH 6x6 W2.9xW2.9 WWF UNO. PROVIDE ADDITIONAL REINFORCING AS SHOWN IN THE PLAN AND DETAILS WWF NOT RECD AT S3.
 - REFERENCE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
 - SEE PLAN FOR WHERE ACOUSTICAL DECK IS REQUIRED.

FOUNDATION PLAN NOTES:

- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01, S1.02, AND S1.03.
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL EXISTING DIMENSIONS AND EXISTING INFORMATION SHALL BE FIELD VERIFIED AS REQUIRED TO COORDINATE WITH NEW WORK.
- CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING WITH OTHERS PRIOR TO POURING CONCRETE: ALL DOOR OPENINGS IN FOUNDATION WALLS; DRAINS AND SLOPES; BLOCKOUTS FOR PLUMBING, SPRINKLERS AND HVAC; ALL DUCTS, CHASES AND PIPES FOR MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS; STAIR DETAILS AND GUARDRAILS PER ARCHITECTURAL DRAWINGS.
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- STEEL STAIRS SHALL BE BIDDER-DESIGNED. UNO. APPLICABLE DESIGN REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
- ALL EXTERIOR WALL STUDS AT ALL LEVELS TO BE 600S162-54 @ 16"OC TYPICAL UNLESS NOTED OTHERWISE. BOTTOM TRACK 800T150-54. TOP TRACK TO BE DEFLECTION TRACK TO MATCH STUD WIDTH AND GAUGE. WHERE DEFLECTION TRACK NOT REQUIRED MATCH BOTTOM TRACK AT TOP AND BOTTOM TRACK PER 1/55.03 AT 10" STUDS. BOTTOM TRACK 1000T200-68. TOP TRACK TO BE DEFLECTION TRACK TO MATCH STUD WIDTH & GAUGE. AT PARAPET 800S162-54 @ 16"OC. TOP & BOTTOM TRACK 800T165-54. TYPICAL UNO. PROVIDE FLAT STRAP BRIDGING PER 2/55.03 AT THIRD POINTS.
- WHERE NEW WORK OR DEMO WORK REQUIRES THE REPLACEMENT OF SLAB ON GRADE, THE FOLLOWING SHOULD BE APPLIED: REPLACEMENT SLAB TO BE 4" SLAB ON GRADE WITH H3 @ 18"OC EACH WAY CENTERED IN SLAB. (2) MINIMUM EACH WAY FOR SMALL PATHS. DOWEL TO EXISTING SLAB PER 1/54.03.
- TYPICAL DETAILS PER:

NUMBER	TYPICAL LAP SPlice SCHEDULE
2/54.01	PIPE OR CONDUIT EMBEDDED IN SLAB ON GRADE
3/54.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS
4/54.01	TYPICAL ANCHOR BOLT SCHEDULE
6/54.01	STANDARD HOOKS AND BAR BENDS
8/54.01	PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS
9/54.01	TYPICAL CONCRETE WALL OPENING REINFORCEMENT
11/54.01	TYPICAL STEPPED FOOTING
12/54.01	TYPICAL DEPRESSED SLAB DETAIL
16/54.01	TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING
18/54.01	TYPICAL BASE PLATE CONFIGURATIONS
20/54.01	TYPICAL STEP AT SLAB ON GRADE
1/54.02	TYPICAL CONCRETE WALL STEP
1/54.03	TYPICAL NEW CONCRETE TO EXISTING CONCRETE
6/54.03	TYPICAL SAWCUT IN EXISTING CONCRETE WALL OR SLAB
11/54.03	NEW/EXISTING SLAB JOINT

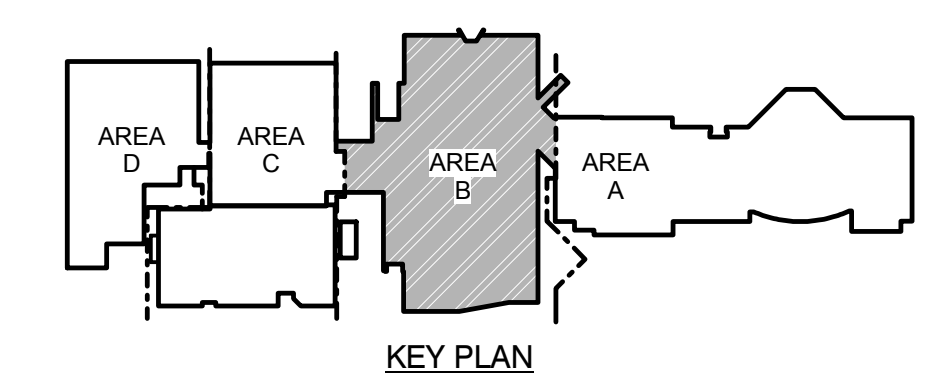
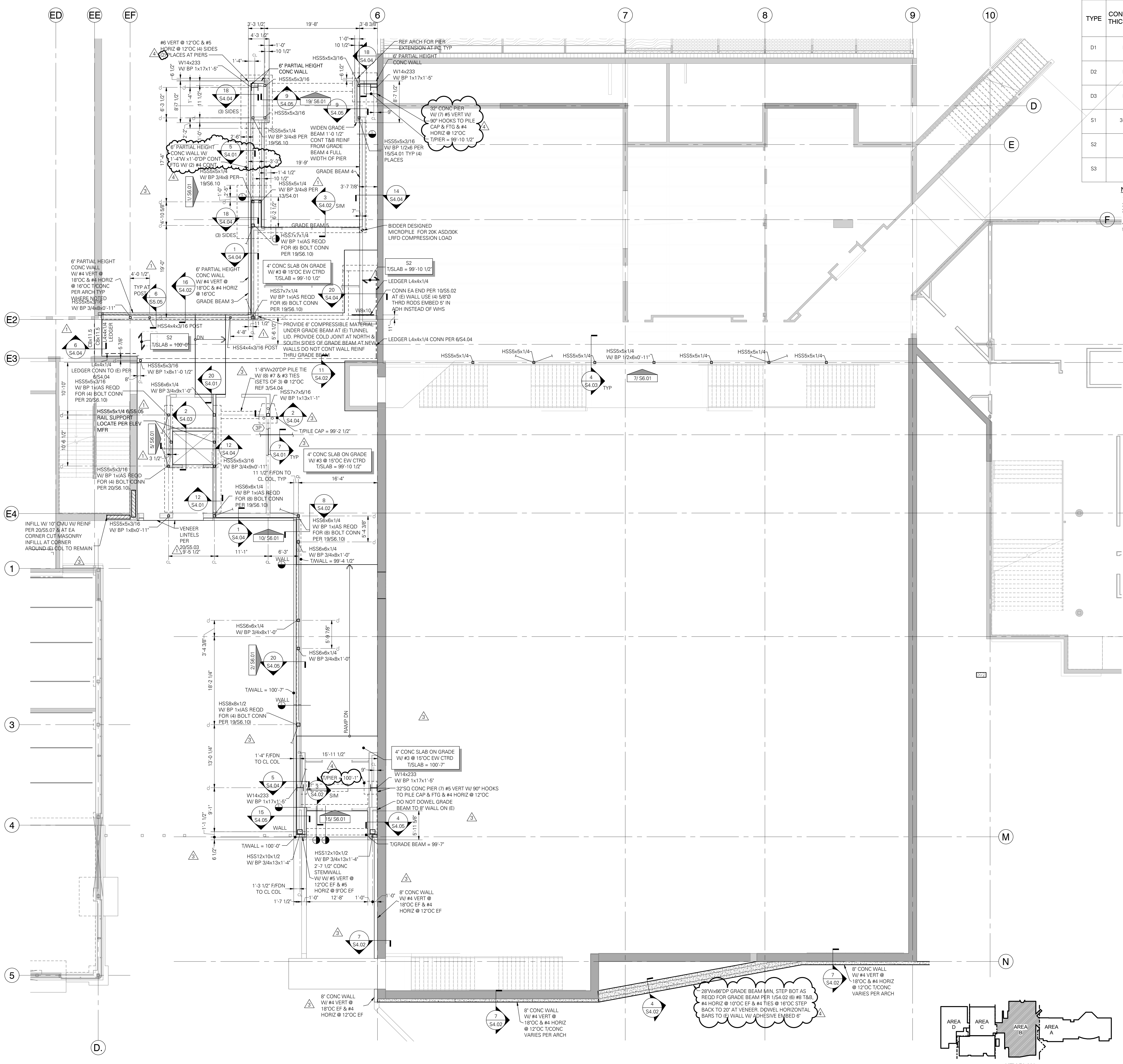
PILE CAP SCHEDULE						
TYPE	NUMBER OF PILES	DIMENSIONS			REFERENCE DETAIL	COMMENTS
		WIDTH	LENGTH	THICKNESS		
3P	3	4'-0"	3'-9"	2'-0"	8/54.04	1-2
4P	4	4'-0"	4'-0"	2'-0"	13/54.04	1-2
6P	6	5'-11"	6'-0"	2'-9"	5/54.05	1-2
6PA	6	6'-0"	6'-0"	2'-9"	10/54.05	1-2, 3

- NOTES:**
- INDICATES QUANTITY OF PILES WITH COMPRESSION LOAD INDICATED FOR EACH PILE PER SCHEDULE. REFERENCE 4/54.04.
 - INDICATES QUANTITY OF PILES WITH COMPRESSION & TENSION LOADS INDICATED FOR EACH PILE PER SCHEDULE. DESIGNATIONS WITHOUT T DO NOT REQUIRE TENSION LOADS INDICATED IN SCHEDULE. REFERENCE 9/54.04.

TYPE	COMPRESSION LOAD		TENSION LOAD		PILE DIAMETER	
	ASD	LRFD	ASD	LRFD	MAX	MIN
3P	56K	85K			6"	4"
4P	56K	85K			6"	4"
6P	70K	94K	20K	25K	6"	4"
6PA	56K	85K	31K	43K	6"	4"

SPREAD FOOTING					
TYPE	DIMENSIONS			REINFORCING	COMMENTS
	LENGTH	WIDTH	DEPTH		
F6.0	11'-0"	4'-6"	2'-0"	(13) #6 T&B LONGIT & (8) #6 T&B TRANSV	
F7.0	11'-0"	7'-0"	2'-0"	(13) #6 T&B LONGIT & (9) #6 T&B TRANSV	
F8.0	4'-6"	8'-3"	1'-6"	(8) #6 T&B LONGIT & (6) #5 T&B TRANSV	

GRADE BEAM SCHEDULE				
TYPE	DIMENSIONS		REINFORCING	COMMENTS
	WIDTH	DEPTH		
GRADE BEAM 1	1'-6"	4'-0"	(3) #5 T&B & #4 TIES @ 16"OC & #4 HORIZ @ 10"OC EF	
GRADE BEAM 2	1'-8"	4'-6"	(2) #5 T&B & #4 TIES @ 12"OC & #4 HORIZ @ 14"OC EF	
GRADE BEAM 3	2'-0"	5'-10 1/2"	(5) #8 T&B & #4 TIES @ 12"OC & #5 HORIZ @ 12"OC EF	
GRADE BEAM 4	1'-4 1/2"	3'-0"	(3) #7B & (3) #5T & #4 TIES @ 12"OC & #4 HORIZ @ 12"OC EF	
GRADE BEAM 5	1'-2"	3'-0"	(2) #5 T&B & #4 TIES @ 12"OC & #4 HORIZ @ 14"OC EF	
GRADE BEAM 6	1'-11"	4'-0"	(4) #5 T&B & #4 TIES @ 12"OC & #5 HORIZ @ 10"OC EF	



LEVEL 1 FOUNDATION PLAN - AREA B
 SCALE: 1/8" = 1'-0"



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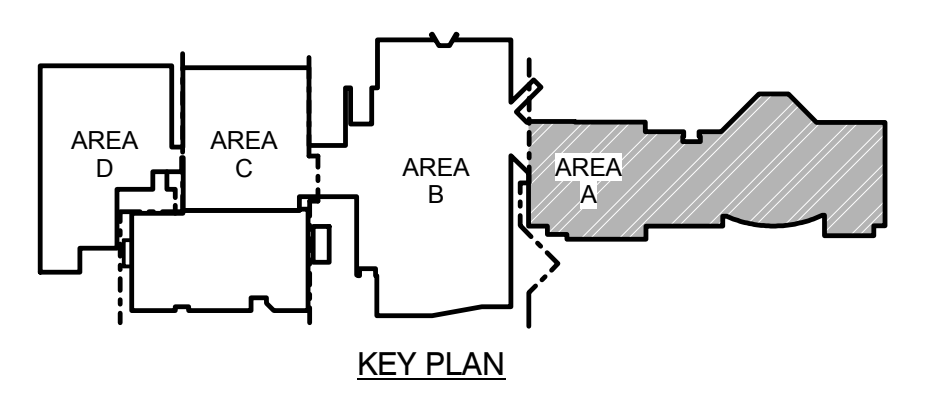
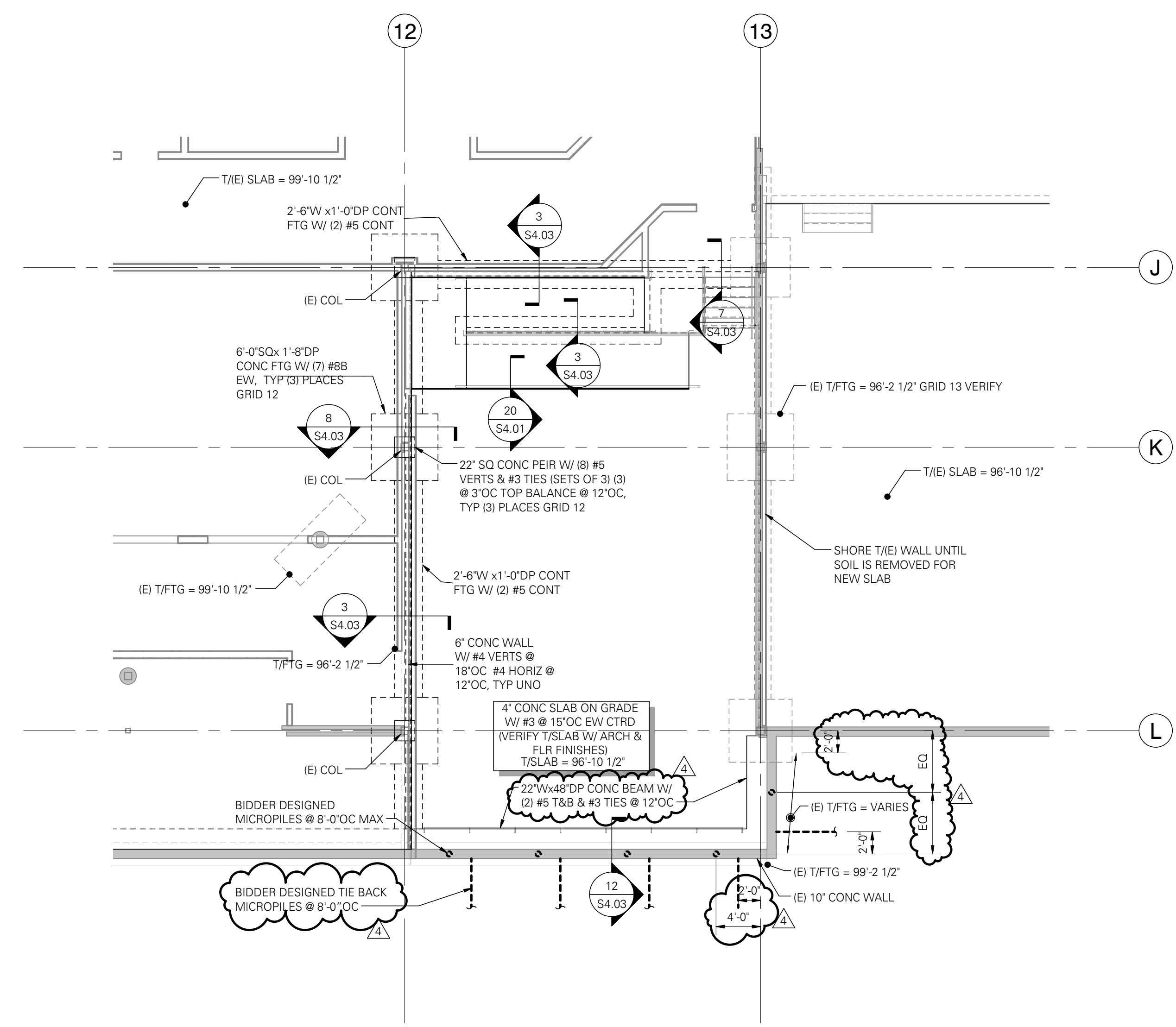
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LEVEL 1 FOUNDATION PLAN - AREA B

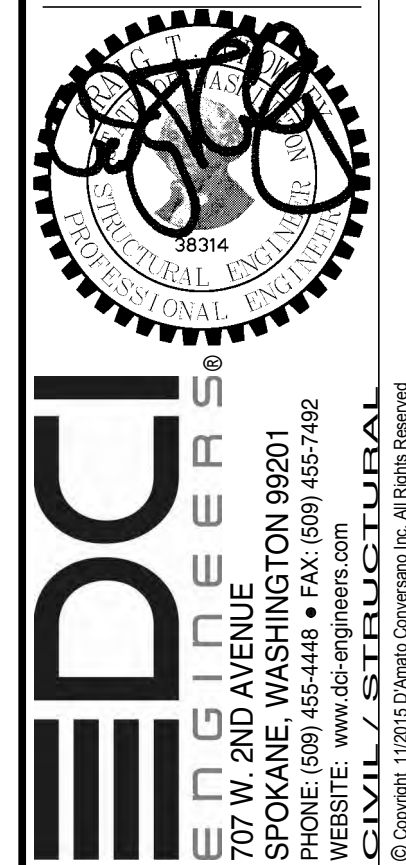
CD S3.01

- FOUNDATION PLAN NOTES:**
- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01, S1.02, AND S1.03.
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 - WHERE NEW WORK OR DEMO WORK REQUIRES THE REPLACEMENT OF SLAB ON GRADE, THE FOLLOWING SHOULD BE APPLIED: REPLACEMENT SLAB TO BE 4" SLAB ON GRADE WITH H3 @ 15"OC EACH WAY CENTERED IN SLAB. (2) MINIMUM EACH WAY FOR SMALL PATHS. DOWEL TO EXISTING SLAB PER 11/54 03.
 - TYPICAL DETAILS PER:

- 1/54.01 TYPICAL LAP SPlice SCHEDULE
- 2/54.01 PIPE OR CONDUIT EMBEDDED IN SLAB ON GRADE
- 3/54.01 PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS
- 4/54.01 TYPICAL ANCHOR BOLT SCHEDULE
- 6/54.01 STANDARD HOOKS AND BAR BENDS
- 8/54.01 PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS
- 9/54.01 TYPICAL CONCRETE WALL OPENING REINFORCEMENT
- 11/54.01 TYPICAL STEPPED FOOTING
- 12/54.01 TYPICAL DEPRESSED SLAB DETAIL
- 16/54.01 TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEM/WALL/FOOTING
- 18/54.01 TYPICAL BASE PLATE CONFIGURATIONS
- 20/54.01 TYPICAL STEP AT SLAB ON GRADE
- 1/54.02 TYPICAL CONCRETE WALL STEP
- 1/54.03 TYPICAL NEW CONCRETE TO EXISTING CONCRETE
- 6/54.03 TYPICAL SAWCUT IN EXISTING CONCRETE WALL OR SLAB
- 11/54.03 NEW/EXISTING SLAB JOINT



LEVEL 1 FOUNDATION PLAN - AREA A
SCALE: 1/8" = 1'-0"



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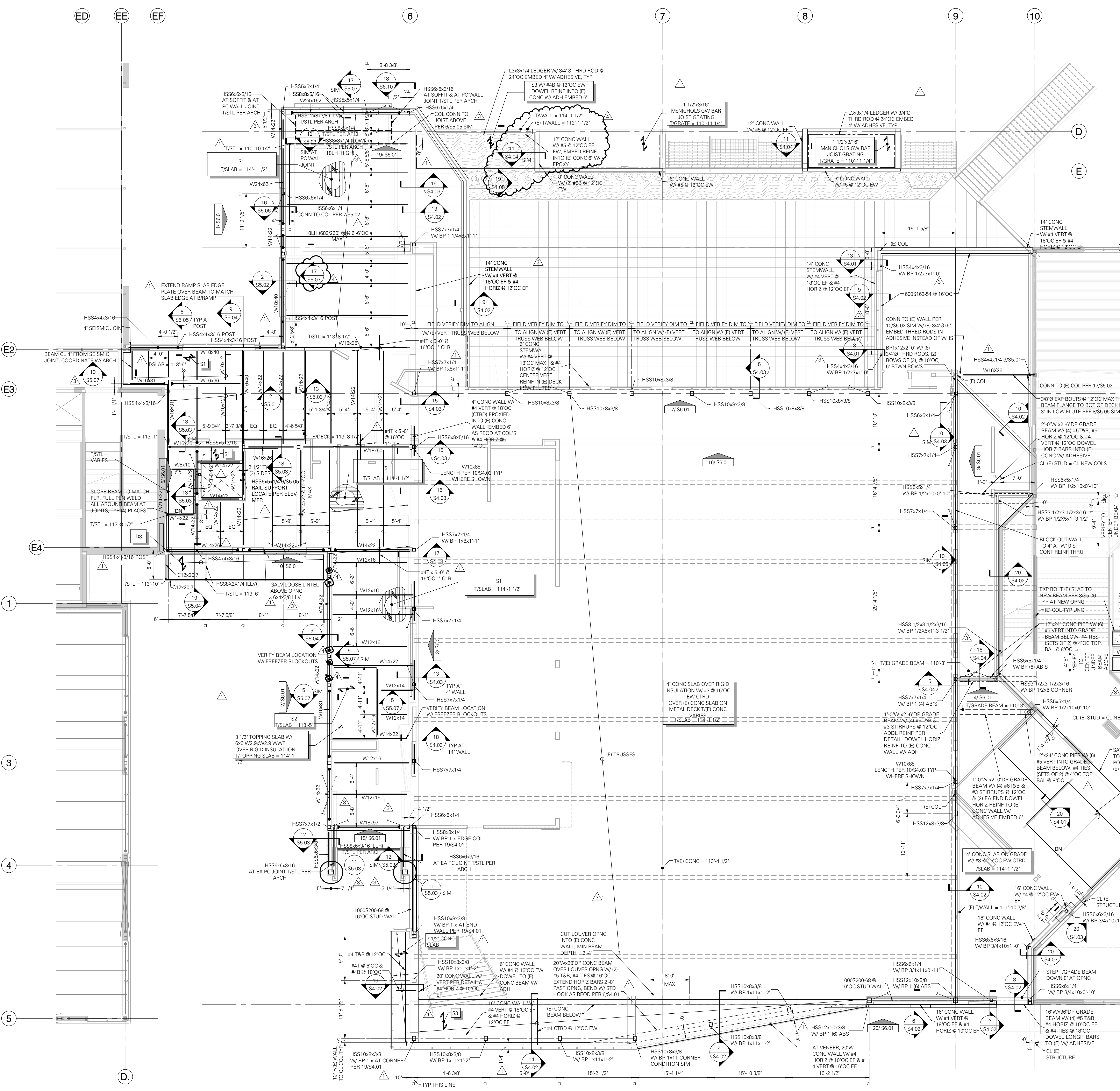
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CHECKED: LMB
DATE: 02/19/16

LEVEL 1
FOUNDATION PLAN
- AREA A

CD
S3.02

SLAB AND DECK / DIAPHRAGM SCHEDULE						
TYPE	CONCRETE THICKNESS	STEEL DECK	TOTAL THICKNESS	DECK ATTACHMENT		
				SUPPORTS PERPENDICULAR TO DECK SPAN	SUPPORTS PARALLEL TO DECK SPAN	SIDLAPS
D1	NA	1-1/2" DP-20GA (B)	NA	(7) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18" OC	BP @ 24" OC
D2	NA	3" DP-18GA (NS)	NA	(4) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18" OC	BP @ 24" OC
D3	NA	1-5/16" DP VERCOR 20GA	NA	14/55.04	14/55.04	14/55.04
S1	3-1/2"	1-1/2" DP-20GA (B) COMPOSITE	5"	(4) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18" OC	BP @ 24" OC
S2	3"	3" DP-18GA (W3)	6"	(4) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18" OC	BP @ 12" OC
S3	6"	1-1/2" DP-20GA (B) COMPOSITE	7-1/2"	(4) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18" OC	BP @ 24" OC

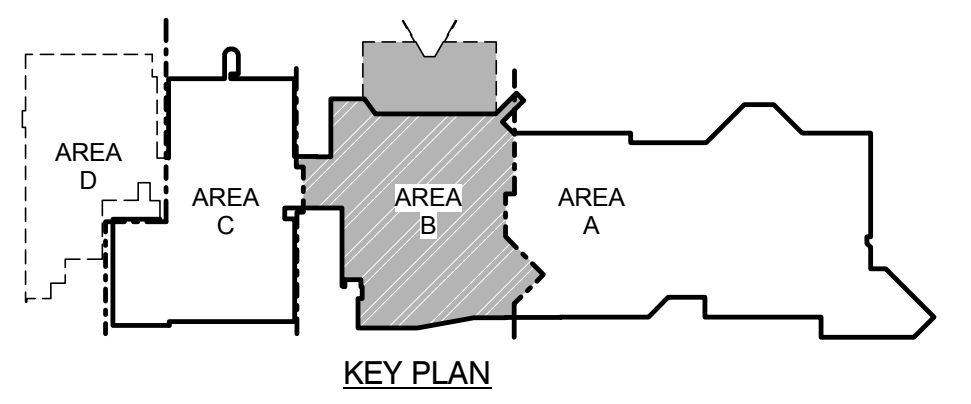
- NOTES:
1. CONCRETE TO BE NORMAL WEIGHT.
 2. DECK SHALL BE GALVANIZED. FLOOR DECK SHALL BE COMPOSITE STEEL DECK.
 3. REINFORCE SLAB WITH 6# X2 3# W/ UNO. PROVIDE ADDITIONAL REINFORCING AS SHOWN IN THE PLAN AND DETAILS W/WF NOT NOTED AT S3.
 4. REFERENCE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
 5. SEE PLAN FOR WHERE ACOUSTICAL DECK IS REQUIRED.



FLOOR FRAMING PLAN NOTES:

1. STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01, S1.02, AND S1.03.
2. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL EXISTING DIMENSIONS AND EXISTING INFORMATION SHALL BE FIELD VERIFIED AS REQUIRED TO COORDINATE WITH NEW WORK.
3. ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS.
4. TOP OF SLAB ELEVATION (T/SLAB) = PER PLAN.
T/STL = "X-X"
5. INDICATES TOP OF STEEL (T/STL) ELEVATION (T/STL = B/DECK) UNO, AT GRIDERS SUPPORTING OPEN WEB STEEL JOISTS (T/STL) = 5" FOR BEARING SEAT DEPTH. STEEL JOISTS SHALL BE EQUALLY SPACED, TYPICAL UNO.
6. NUMBERS INDICATED ON PLAN ADJACENT TO JOIST CALLOUT SHOWN IN UNO. 18/55.02 INDICATES TOTAL LOAD AND LIVE LOAD IN PLF) FOR WHICH JOISTS ARE TO BE DESIGNED BY OTHERS.
7. CONCRETE OVER METAL DECK PER PLAN AND STRUCTURAL GENERAL NOTES. PROVIDE REINFORCING AS SHOWN IN PLAN AND DETAILS. DECK GAGE AND ATTACHMENT PER DIAPHRAGM KE PLAN.
8. TYPICAL FLOOR DECK OVERHANG TO BE 4" FROM BEAM CENTERLINE, UNO.
9. STEEL STAIRS SHALL BE BIDDER-DESIGNED, UNO. APPLICABLE DESIGN REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
10. BRACED FRAME MEMBER SIZES PER ELEVATIONS.
11. CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
12. LEDGER ANGLES ARE REQUIRED WHERE METAL DECKING AND SLAB INTERFACE WITH CONCRETE WALLS. REQUIREMENTS ARE PER PLAN.
13. REFER TO 18/55.01 AND 18/55.01 FOR REINFORCING REQUIREMENTS AT ALL DECK PENETRATIONS AND ALL MECHANICAL UNITS. NOT ALL UNITS NOR PENETRATIONS HAVE BEEN SHOWN. CONTRACTOR TO REFERENCE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION FOR ADDITIONAL PENETRATIONS AND UNITS.
14. TYPICAL DETAILS PER:

2/55.01	TYPICAL DECK AT DISCONTINUITIES
3/55.01	BEAM TO HSS COLUMN CONNECTIONS
8 & 9/55.01	TYPICAL FLOOR JOIST TO BEAM
11/55.01	PLAN - TYPICAL DECK SUPPORT AT INTERIOR COLUMN
12/55.01	TYPICAL SLAB EDGE AT STEEL BEAM
15/55.01	TYPICAL HSS JOIST CONNECTION TO BEAM
16 & 18/55.01	TYPICAL METAL DECK OPENING REINFORCING
17/55.02	STEEL CONNECTION DETAILS
20/55.01	TYPICAL CANTILEVER OVER BEAM



COMMONS LEVEL FLOOR FRAMING & FOUNDATION PLAN

SCALE: 1/8" = 1'-0"



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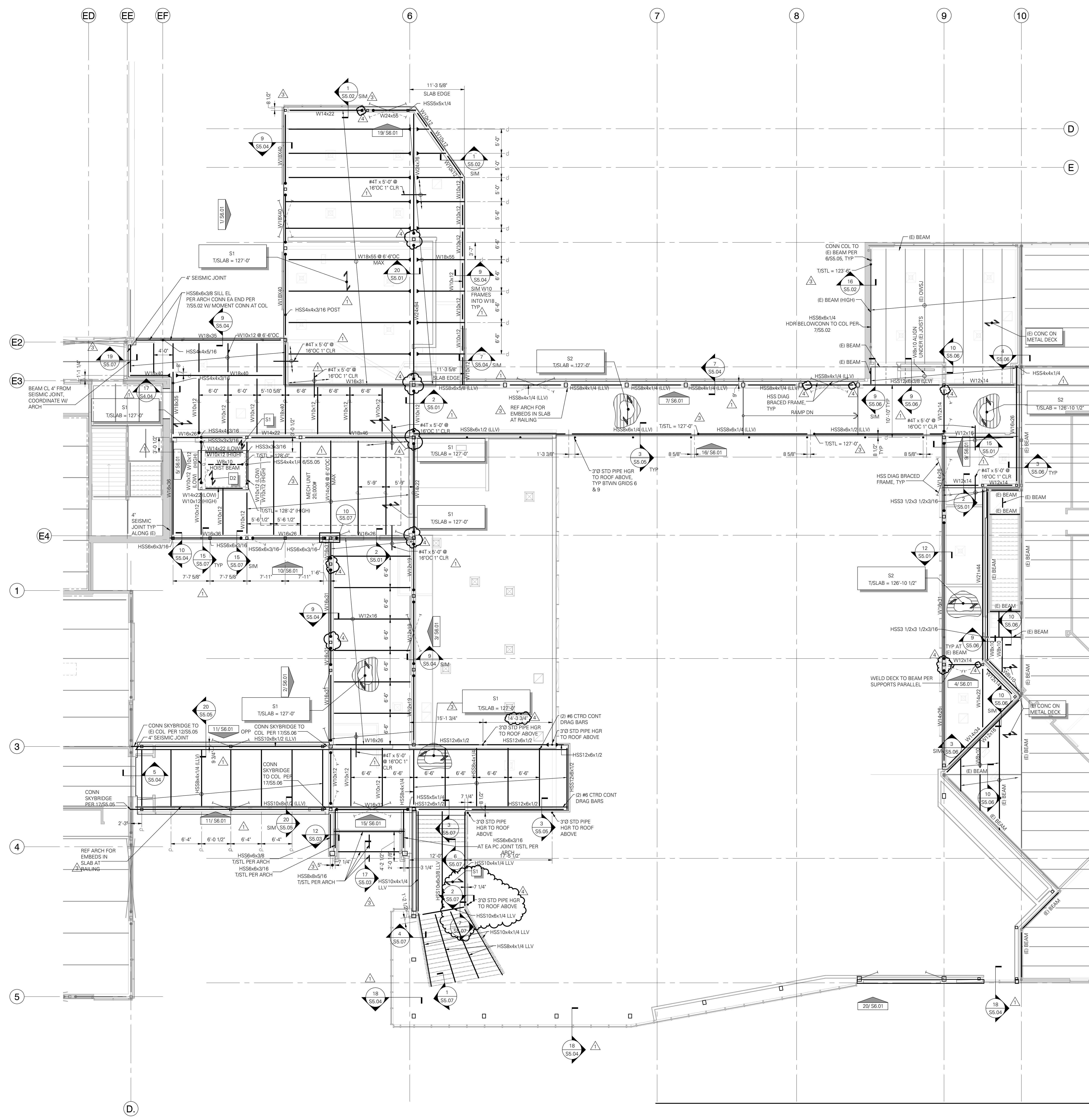
NO: 111-15017
 DRAWN: J/LJ
 CHECKED: LMB
 DATE: 02/19/16

COMMONS LEVEL FLOOR FRAMING PLAN

CD
S3.03

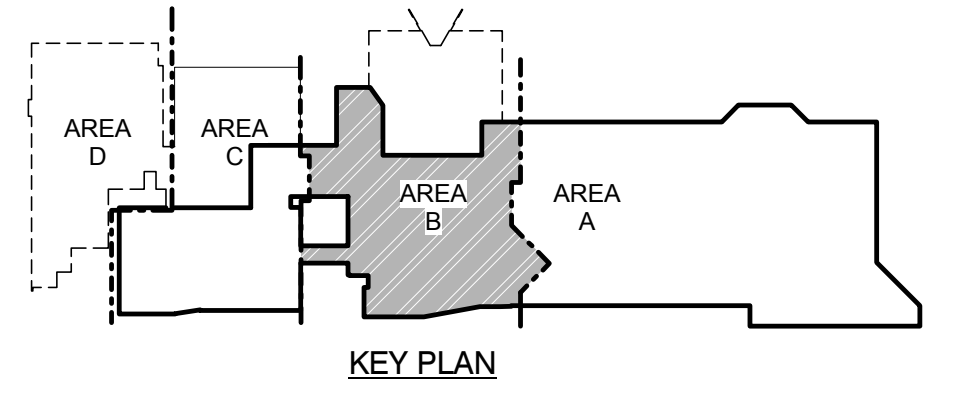
TYPE	CONCRETE THICKNESS	STEEL DECK	TOTAL THICKNESS	DECK ATTACHMENT		
				SUPPORTS PERPENDICULAR TO DECK SPAN	SUPPORTS PARALLEL TO DECK SPAN	SIDLAPS
D1	NA	1-1/2" DPx20GA (B)	NA	171 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18" OC	BP @ 24" OC
D2	NA	3" DPx18GA (NS)	NA	141 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18" OC	BP @ 24" OC
D3	NA	1-5/16" DP VERCOR x20GA	NA	1455.04	1455.04	1455.04
S1	3-1/2"	1-1/2" DPx20GA (B) COMPOSITE	5"	141 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18" OC	BP @ 24" OC
S2	3"	3" DPx18GA (WS)	6"	141 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18" OC	BP @ 12" OC
S3	6"	1-1/2" DPx20GA (B) COMPOSITE	7-1/2"	141 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18" OC	BP @ 24" OC

- NOTES:
- CONCRETE TO BE NORMAL WEIGHT.
 - DECK SHALL BE GALVANIZED. FLOOR DECK SHALL BE COMPOSITE STEEL DECK.
 - REINFORCE SLAB WITH #4 W/2 BWV @ WWF UNO. PROVIDE ADDITIONAL REINFORCING AS SHOWN IN THE PLAN AND DETAILS WWF NOT REOD AT S3.
 - REFERENCE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
 - SEE PLAN FOR WHERE ACOUSTICAL DECK IS REQUIRED.



FLOOR FRAMING PLAN NOTES:

- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01, S1.02, AND S1.03.
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL EXISTING DIMENSIONS AND EXISTING INFORMATION SHALL BE FIELD VERIFIED AS REQUIRED TO COORDINATE WITH NEW WORK.
- ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS.
- TOP OF SLAB ELEVATION (T/SLAB) = PER PLAN.
- T/STL-X-X-X INDICATES TOP OF STEEL (T/STL) ELEVATION (T/STL = B/DECK) UNO. AT GIRDERS SUPPORTING OPEN WEB STEEL JOISTS (T/STL) = -6" FOR BEARING SEAT DEPTH. STEEL JOISTS SHALL BE EQUALLY SPACED, TYPICAL UNO.
- NUMBERS INDICATED ON PLAN ADJACENT TO JOIST CALLOUT SHOWN THUS: 1400/200 INDICATES TOTAL LOAD AND LIVE LOAD (IN PLF) FOR WHICH JOISTS ARE TO BE DESIGNED BY OTHERS.
- CONCRETE OVER METAL DECK PER PLAN AND STRUCTURAL GENERAL NOTES. PROVIDE REINFORCING AS SHOWN IN PLAN AND DETAILS. DECK GAGE AND ATTACHMENT PER DIAPHRAGM KEY PLAN.
- TYPICAL FLOOR DECK OVERHANG TO BE 4" FROM BEAM CENTERLINE, UNO.
- STEEL STAIRS SHALL BE BIDDER-DESIGNED. UNO. APPLICABLE DESIGN REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
- BRACED FRAME MEMBER SIZES PER ELEVATIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
- LEDGER ANGLES ARE REQUIRED WHERE METAL DECKING AND SLAB INTERFACE WITH CONCRETE WALLS. REQUIREMENTS ARE PER PLAN.
- REFER TO 16/55.01 AND 18/55.01 FOR REINFORCING REQUIREMENTS AT ALL DECK PENETRATIONS AND ALL MECHANICAL UNITS. NOT ALL UNITS NOR PENETRATIONS HAVE BEEN SHOWN. CONTRACTOR TO REFERENCE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION FOR ADDITIONAL PENETRATIONS AND UNITS.
- TYPICAL DETAILS PER:
 - 2/55.01 TYPICAL DECK AT DISCONTINUITIES
 - 3/55.01 BEAM TO HSS COLUMN CONNECTIONS
 - 8 & 9/55.01 TYPICAL FLOOR JOIST TO BEAM
 - 11/55.01 PLAN - TYPICAL DECK SUPPORT AT INTERIOR COLUMN
 - 12/55.01 TYPICAL SLAB EDGE AT STEEL BEAM
 - 15/55.01 TYPICAL HSS JOIST CONNECTION TO BEAM
 - 16 & 18/55.01 TYPICAL METAL DECK OPENING REINFORCING
 - 17/55.02 STEEL CONNECTION DETAILS
 - 20/55.01 TYPICAL CANTILEVER OVER BEAM



LEVEL 3 FLOOR FRAMING PLAN SCALE: 1/8" = 1'-0"



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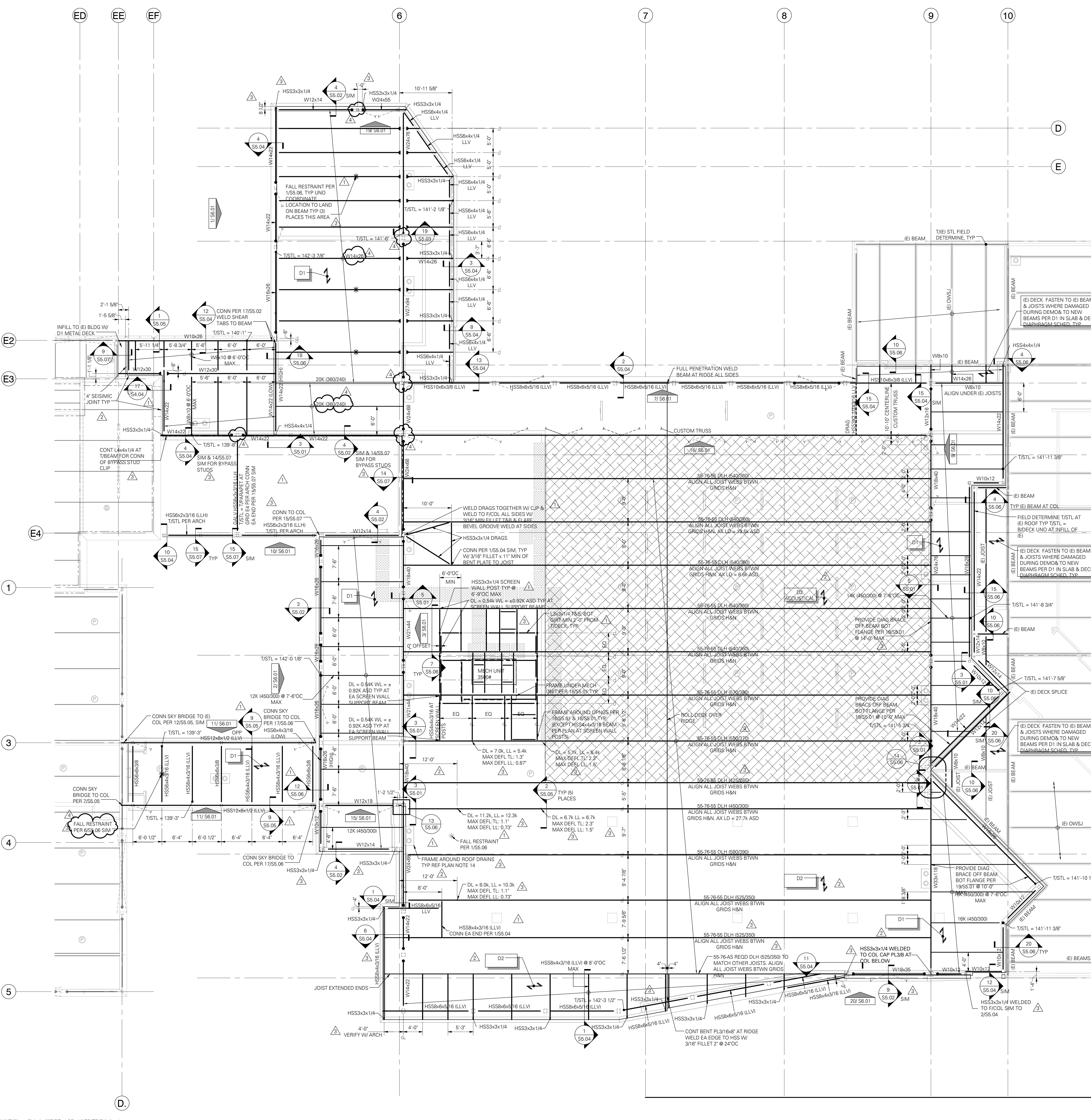
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LEVEL 3 FRAMING PLAN

CD
S3.04

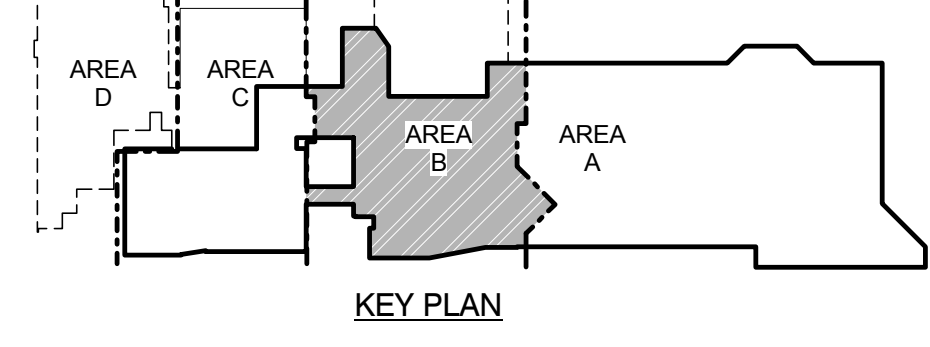
SLAB AND DECK / DIAPHRAGM SCHEDULE						
TYPE	CONCRETE THICKNESS	STEEL DECK	TOTAL THICKNESS	DECK ATTACHMENT		
				SUPPORTS PERPENDICULAR TO DECK SPAN	SUPPORTS PARALLEL TO DECK SPAN	SIDLAPS
D1	NA	1-1/2" DP-20GA (B)	NA	(7) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18"OC	8P @ 24"OC
D2	NA	3" DP-18GA (N3)	NA	(4) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18"OC	8P @ 24"OC
D3	NA	1.5" 16" DP VERCOR 20GA	NA	14/55.04	14/55.04	14/55.04
S1	3-1/2"	1-1/2" DP-20GA (B) COMPOSITE	5"	(4) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18"OC	8P @ 24"OC
S2	3"	3" DP-18GA (W3)	6"	(4) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18"OC	8P @ 12"OC
S3	6"	1-1/2" DP-20GA (B) COMPOSITE	7-1/2"	(4) 1/2" PUDDLE WELDS	1/2" PUDDLE WELDS @ 18"OC	8P @ 24"OC

- NOTES:
- CONCRETE TO BE NORMAL WEIGHT.
 - DECK SHALL BE GALVANIZED. FLOOR DECK SHALL BE COMPOSITE STEEL DECK.
 - REINFORCE SLAB WITH #6 @ 12" ON CENTER. PROVIDE ADDITIONAL REINFORCING AS SHOWN IN THE PLAN AND DETAILS WWF NOT REGD AT S3.
 - REFERENCE GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.
 - SEE PLAN FOR WHERE ACoustICAL DECK IS REQUIRED.



ROOF FRAMING PLAN NOTES:

- STRUCTURAL GENERAL NOTES, DESIGN CRITERIA, ABBREVIATIONS AND LEGEND PER S1.01, S1.02, AND S1.03.
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECT'S DRAWINGS. ALL EXISTING DIMENSIONS AND EXISTING INFORMATION SHALL BE FIELD VERIFIED AS REQUIRED TO COORDINATE WITH NEW WORK.
- ALL DUCTS, CHASES AND PIPES SHALL BE PER MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER DRAWINGS.
- T/STL="X" INDICATES TOP OF STEEL (T/STL) ELEVATION AT JOISTS (T/STL = B/DECK) UNO. AT GIRDETS SUPPORTING OPEN WEB STEEL JOISTS T/STL = 3/2" AT K SERIES JOIST 10" AT LH SERIES JOIST SEAT BEARING DEPTH NOTED ON PLANS. STEEL JOISTS SHALL BE EQUALLY SPACED, TYPICAL UNO.
- METAL DECK PER PLAN AND STRUCTURAL GENERAL NOTES. DECK GAGE AND ATTACHMENT PER DIAPHRAGM KEY PLAN.
- TYPICAL ROOF DECK OVERHANG TO BE 4" FROM CENTERLINE OF BEAM, UNO.
- NUMBERS INDICATED ON PLAN ADJACENT TO JOIST CALL OUT SHOWN THUS (4000/200) INDICATES TOTAL LOAD AND LIVE LOAD (IN PLF) FOR WHICH JOISTS ARE TO BE DESIGNED BY OTHERS.
- ROOF JOISTS TO BE DESIGNED FOR A NET UPLIFT LOAD OF 6PSF.
- ROOF JOISTS ARE TO BE REVIEWED FOR ADDITIONAL LOADS FROM MECHANICAL UNITS AND PIPING. (ADDITIONAL LOADING REQUIREMENTS PER PLAN.) CONTRACTOR TO PROVIDE THE TRUSS/JOIST SUPPLIER WITH A DRAWING SHOWING THE LOCATION AND SUPPORT CONDITIONS FOR ALL MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER LOADS. SPECIAL TRUSS SHAPES AND OPENING REQUIREMENTS ARE AS DESIGNATED ON PLAN. ROOF TRUSS/JOIST SUPPLIER IS RESPONSIBLE FOR ADDITIONAL FRAMING REQUIRED TO SUPPORT MECHANICAL EQUIPMENT, DUCTS, ELECTRICAL EQUIPMENT, PLUMBING AND FIRE PROTECTION.
- LEDGER ANGLES ARE REQUIRED WHERE METAL DECKING INTERFACES WITH CONCRETE WALLS. REQUIREMENTS PER PLAN.
- STEEL STAIRS SHALL BE BIDDER-DESIGNED. UNO. APPLICABLE DESIGN REQUIREMENTS PER STRUCTURAL GENERAL NOTES.
- BRACED FRAME MEMBER SIZES PER ELEVATIONS.
- CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SHORING.
- REFER TO 1855.01 AND 1855.01 FOR REINFORCING REQUIREMENTS AT ALL DECK PENETRATIONS AND ALL MECHANICAL UNITS. NOT ALL UNITS NOR PENETRATIONS HAVE BEEN SHOWN. CONTRACTOR TO REFERENCE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND FIRE PROTECTION FOR ADDITIONAL PENETRATIONS AND UNITS.
- TYPICAL DETAILS PER:
 - 1/55.01 ALLOWABLE METHODS AND LOCATIONS FOR SUPPORTING LOADS FROM OWSJ
 - 7/55.01 TYPICAL CHANGE IN DECK DIRECTION AT ROOF
 - 16/55.01 & 18/55.01 TYPICAL DECK OPENING REINFORCING DETAILS
 - 5/55.02 TYPICAL SKEVED BOLTED BEAM CONNECTION
 - 6/55.02 TYPICAL OWSJ TO FACE OF COLUMN
 - 7/55.02 TYPICAL HSS BEAM CONNECTIONS
 - 17/55.02 STEEL CONNECTION DETAILS



ROOF LEVEL FRAMING PLAN



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NORTH CENTRAL HS CAFETERIA/COMMONS ADDITION
 1800 NORTH HOWARD STREET, SPOKANE, WA 99205



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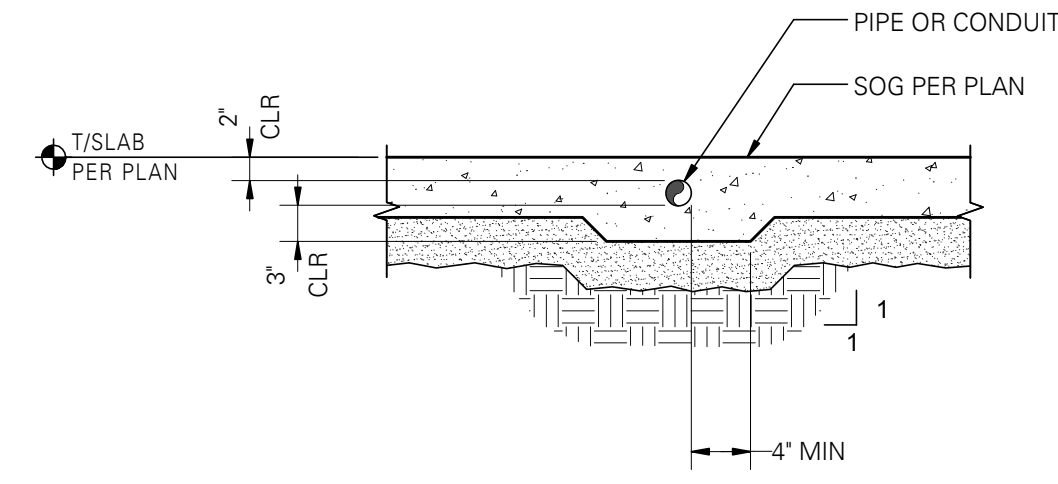
NO: 111-15017
 DRAWN: JLJ
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 DATE: 02/19/16

ROOF FRAMING PLAN
CD S3.05
 SCALE: 1/8" = 1'-0"

BAR SIZE	MISCELLANEOUS BARS			TOP BARS (see note #4)			HOOKED BARS	BAR SIZE	MISCELLANEOUS BARS			TOP BARS (see note #4)			HOOKED BARS
	Ld	Splice	Ldh	Ld	Splice	Ldh			Ld	Splice	Ldh	Ld	Splice	Ldh	
	$f_c = 3000psi$														
#3	17	23	22	29	9			#3	15	20	19	25	8		
#4	22	29	29	38	11			#4	19	25	25	33	10		
#5	28	37	36	47	14			#5	24	32	31	41	12		
#6	33	43	43	56	17			#6	29	38	37	49	15		
#7	48	63	63	82	20			#7	42	55	54	71	17		
#8	55	72	72	94	22			#8	48	63	62	81	19		
#9	62	81	81	106	25			#9	54	71	70	91	22		
#10	70	91	91	119	28			#10	61	80	79	103	25		
#11	78	102	101	132	31			#11	67	88	87	114	27		

NOTES:

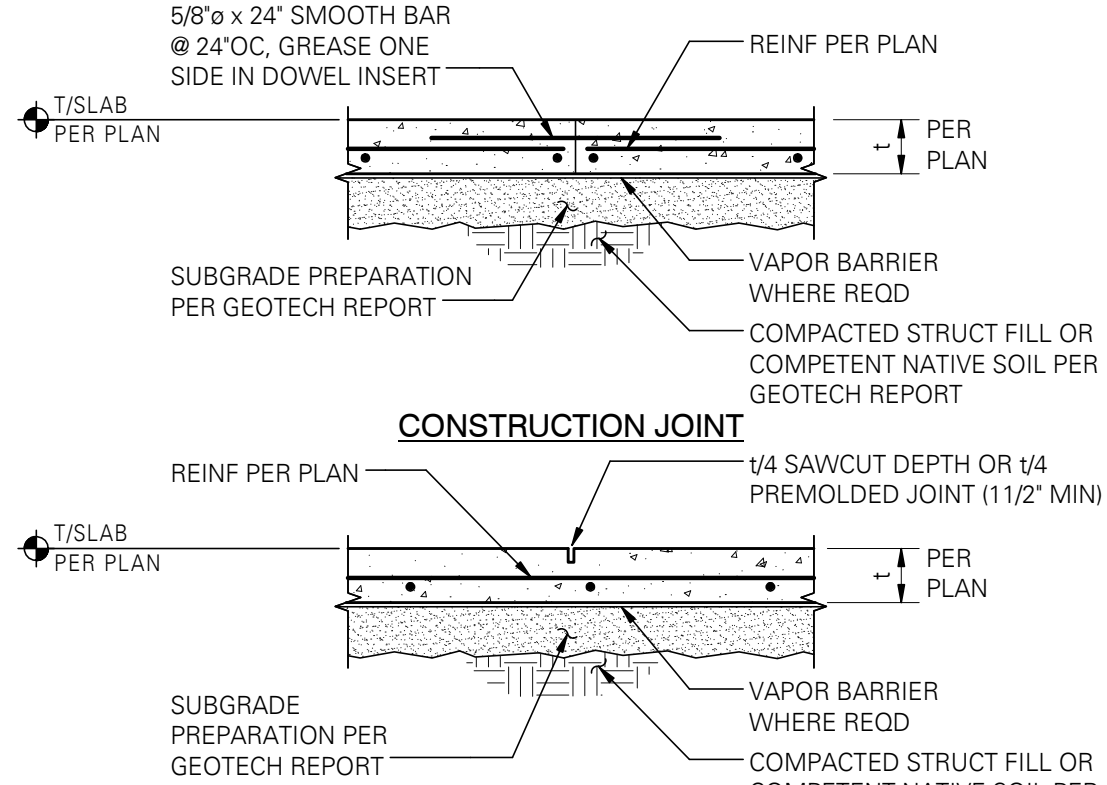
- VALUES FOR UNCOATED REINFORCING AND NORMAL WEIGHT CONCRETE WITH CLEAR SPACING > 4d. CLEAR COVER > 4d AND MINIMUM STIRRUPS OR TIES THROUGHOUT Ld OR CLEAR SPACING > 2db AND CLEAR COVER > 4d.
- DEVELOP ALL REINFORCING IN STRUCTURAL SLABS WITH MINIMUM DEVELOPMENT LENGTH Ld.
- Ldh = DEVELOPMENT LENGTH OF BAR WITH STANDARD HOOK.
- TOP BAR = HORIZONTAL BAR WITH MORE THAN 12" OF FRESH CONCRETE BELOW (EXCLUDING WALL HORIZONTAL REINFORCING) OR AS NOTED ON DOCUMENTS AS "TOP BAR".
- ALL TABULATED VALUES ARE IN INCHES.



NOTE:
ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN CONCRETE.

PIPE OR CONDUIT EMBEDDED IN SLAB ON GRADE

SCALE: 3/4" = 1'-0" (03204)

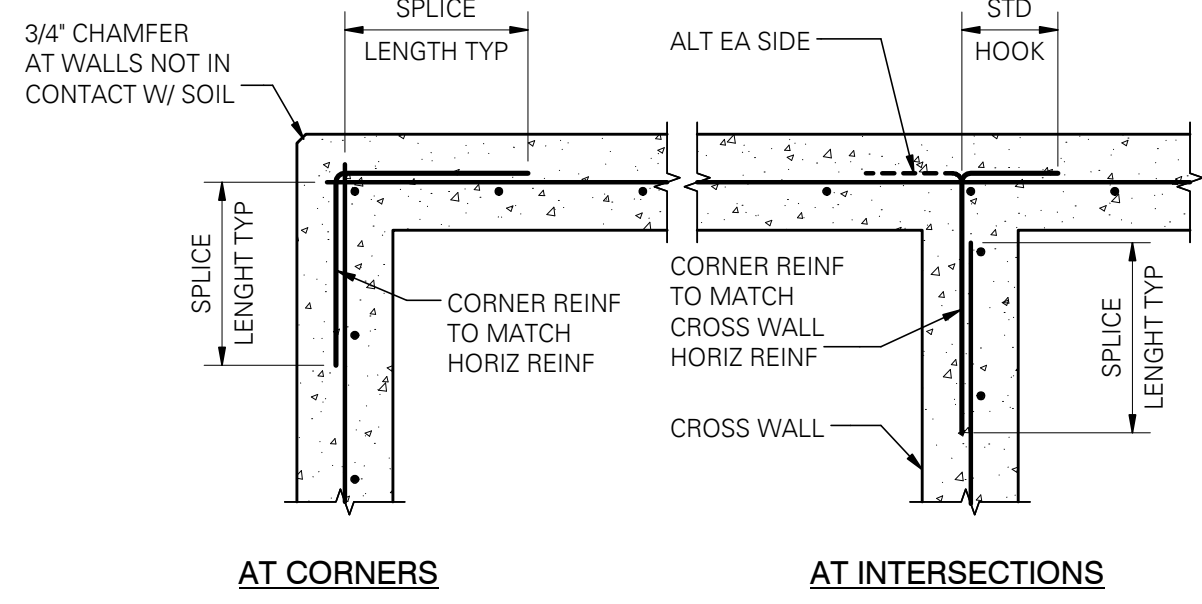
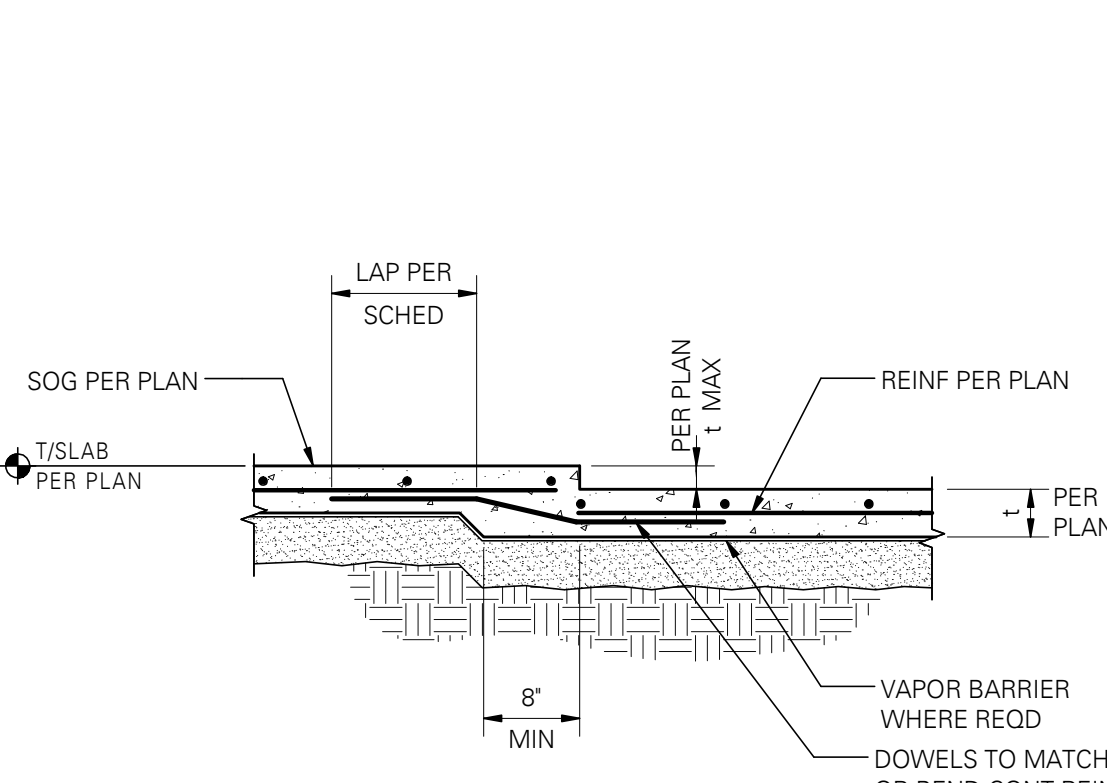


NOTES:

- USE "EARLY DRY-CUT SAW" AS SOON AS POSSIBLE WITHOUT CAUSING RAVELINS OF CONCRETE EDGES. SAWCUT ALONG SHORT DIRECTION OF POUR FIRST.
- ALIGN A CONSTRUCTION OR CONTROL JOINT WITH RE-ENTRANT SLAB CORNERS, EACH WAY, TYPICAL.
- CONSTRUCTION/CONTROL JOINT TO ENCLOSE APPROXIMATE SQUARE AREAS 225 SQUARE FEET MAXIMUM, WITH MAXIMUM PANEL ASPECT RATIO OF 1.3 TO 1.0.
- CONTRACTOR TO SUBMIT CONSTRUCTION/CONTROL JOINT PLAN TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW/APPROVAL.

TYPICAL SLAB ON GRADE JOINT DETAILS WITH REINFORCING

SCALE: 3/4" = 1'-0" (03201)

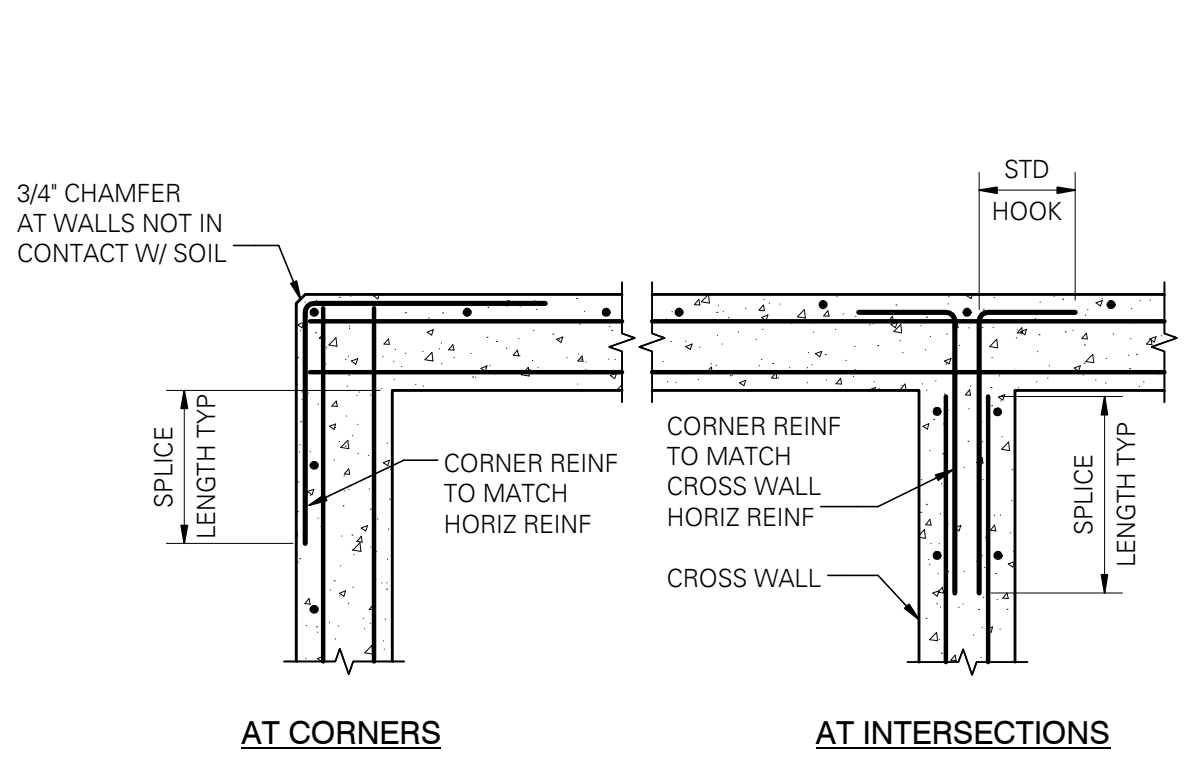


NOTES:

- SPlice LENGTHS PER LAP SPlice AND DEVELOPMENT LENGTH SCHEDULE.
- WALL REINFORCING PER PLAN OR ELEVATIONS, SECTIONS AND DETAILS.
- AT FOOTINGS AND STEMWALLS, CORNER REINFORCING TO MATCH FOOTING AND STEMWALL HORIZONTAL REINFORCING.

PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS

SCALE: 3/4" = 1'-0" (03402-SINGLE MAT)

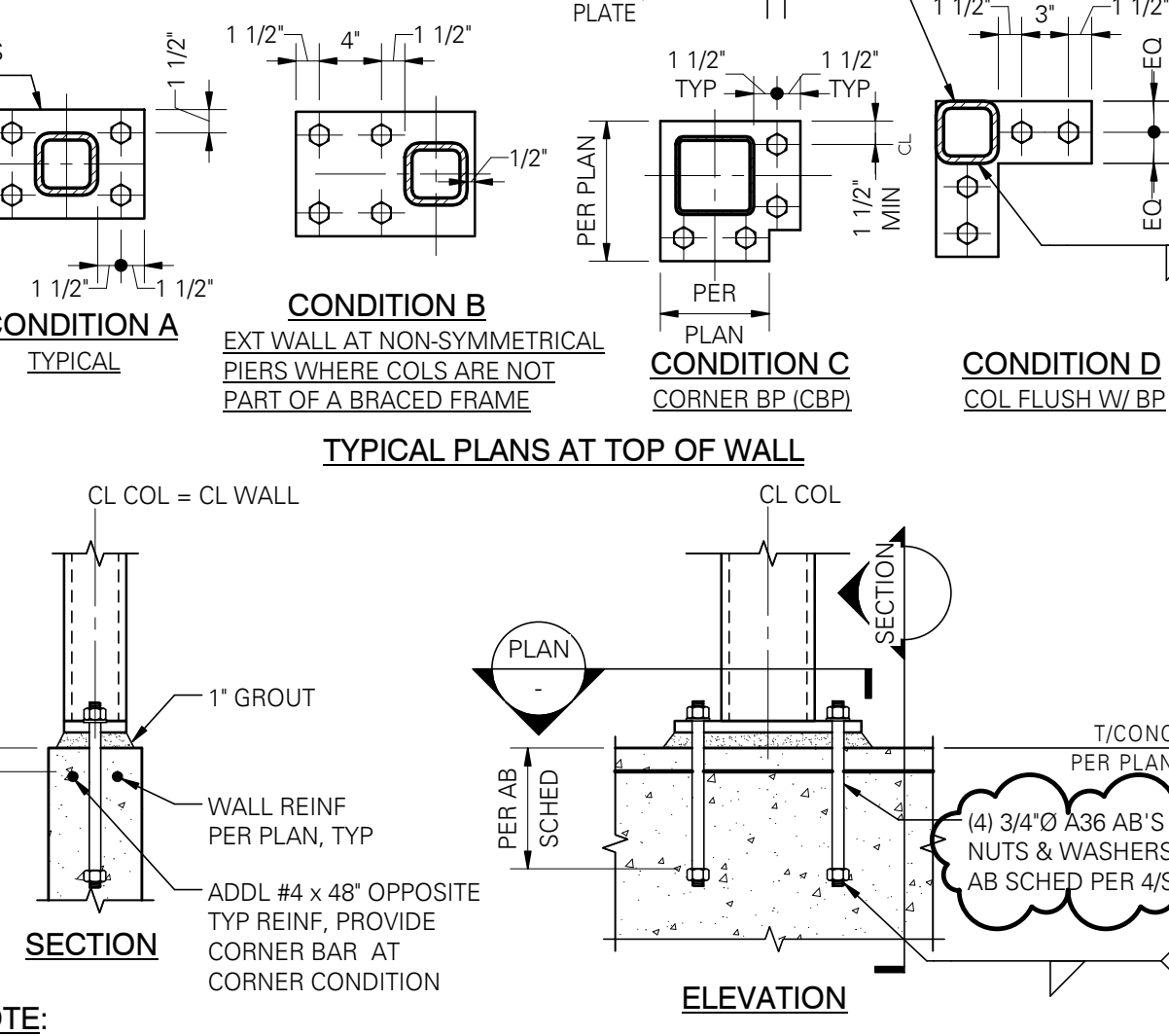


NOTES:

- SPlice LENGTHS PER LAP SPlice AND DEVELOPMENT LENGTH SCHEDULE.
- WALL REINFORCING PER PLAN OR ELEVATIONS, SECTIONS AND DETAILS.
- AT FOOTINGS AND STEMWALLS, CORNER REINFORCING TO MATCH FOOTING AND STEMWALL HORIZONTAL REINFORCING.

PLAN - TYPICAL CORNER REINFORCING AT CONCRETE WALLS

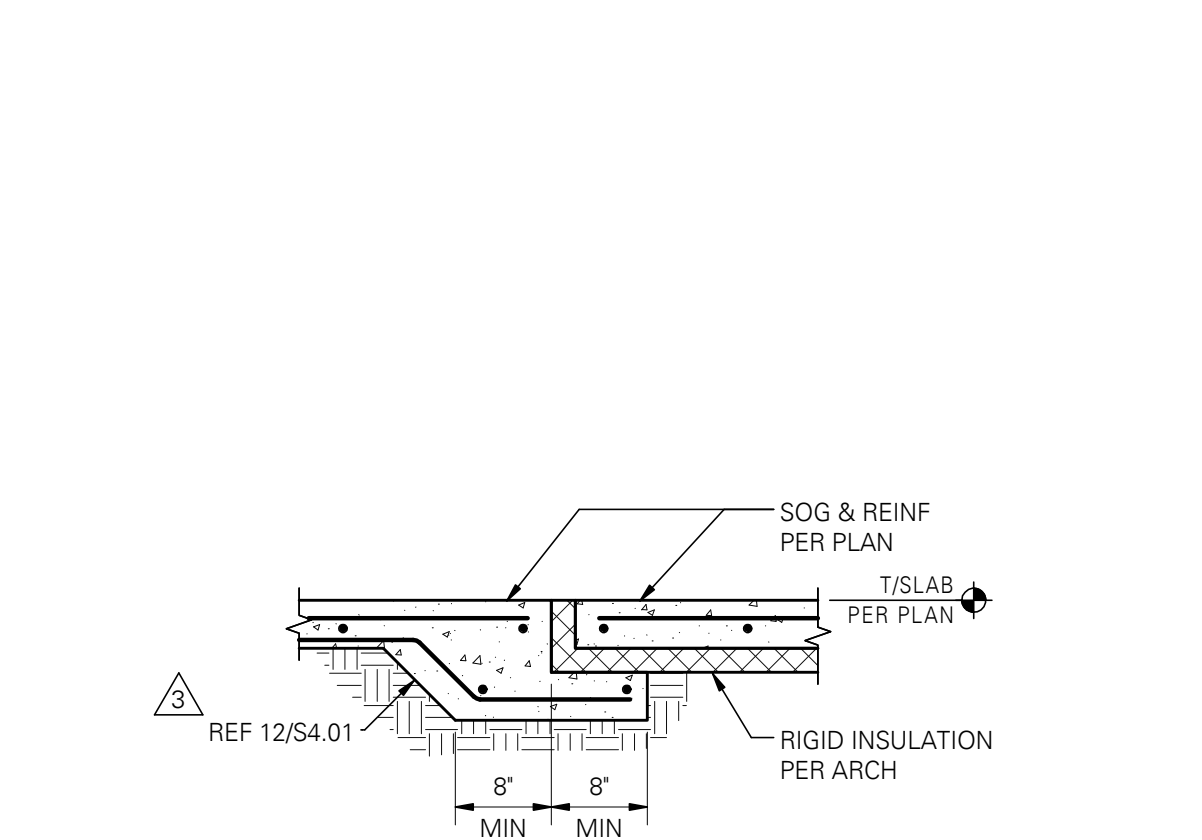
SCALE: 3/4" = 1'-0" (03403-DOUBLE MAT)



NOTE:
AT EXISTING CONCRETE PROVIDE 3/4" THRD ROD EMBEDDED 6\"/>

TYPICAL BASEPLATE TO CONCRETE WALL CONNECTION - HSS COLUMN

SCALE: 1" = 1'-0" (05032M)



NOTE:

- REFERENCE ARCH & MECHANICAL FOR EXTENT OF RADIANT FLOOR.
- REFERENCE ARCH FOR LOCATION OF THIS DETAIL.

SLAB ON GRADE JOINT AT RADIANT FLOOR

SCALE: 3/4" = 1'-0" (03204)

INSTALLATION TYPE	CAST-IN-PLACE (PRE-AUTHORIZED) [2]			DRILL-IN OPTIONS (SUBMITTAL REQUIRED) [3]	
	STANDARD J-BOLT	HEADED ANCHOR	THREADED ROD ANCHOR	ADHESIVE ANCHOR	EXPANSION ANCHOR
EMBEDMENT REQUIREMENTS	7 1/2"	12x DIA 1/4" MIN	TACK	NOTE [4]	
LIMITS	5/8" MAX	5/8" THRU 2 1/2"		5/8" THRU 1"	

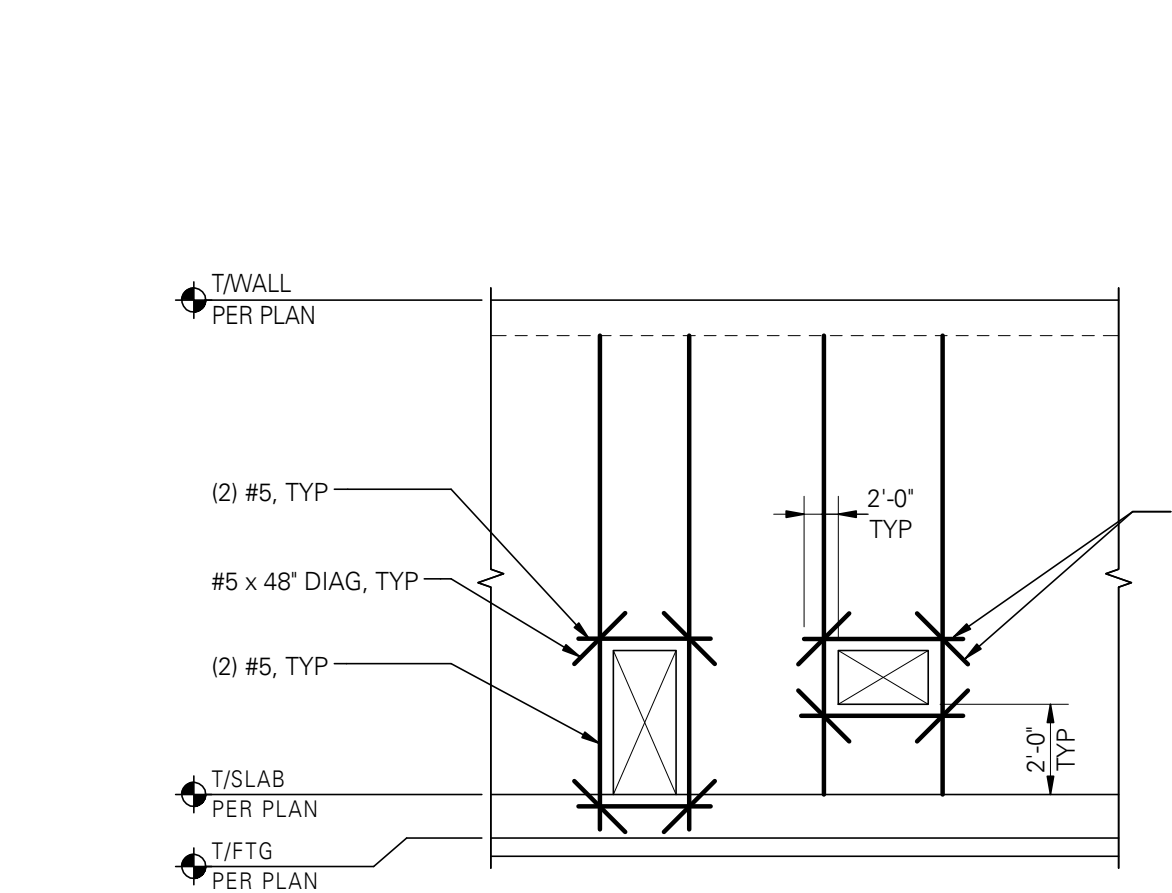
DIA = ANCHOR BOLT DIAMETER (NOMINAL)

NOTES:

- CONTRACTOR SHALL DETERMINE THE REQUIRED THREAD PROJECTION SUITABLE FOR THE THICKNESS OF MATERIAL BEING FASTENED PLUS GROUT ALLOWANCE, IF ANY, AND CONSTRUCTION TOLERANCES, UNO.
- CONTRACTOR MAY SELECT APPROPRIATE CAST-IN-PLACE ANCHOR BOLT OPTION WITHOUT SUBMITTAL.
- DRILL-IN OPTIONS ARE NOT APPROPRIATE AT ALL CONDITIONS. IF DRILL-IN METHOD IS PREFERRED, SUBMIT MANUFACTURER'S INFORMATION, ALLOWABLE LOAD VS EMBEDMENT DATA AND LOCATIONS OF WHERE SUBSTITUTIONS ARE REQUESTED. ENGINEER WILL DETERMINE IF SUBSTITUTION IS APPROPRIATE FOR LOCATION AND LOADING.
- EMBEDMENT OF DRILL-IN ANCHORS SHALL BE PER ENGINEER'S SUBMITTAL REVIEW COMMENTS. EMBEDMENT SHALL BE (9) NINE TIMES FOR NOMINAL ANCHOR DIAMETER, UNO.

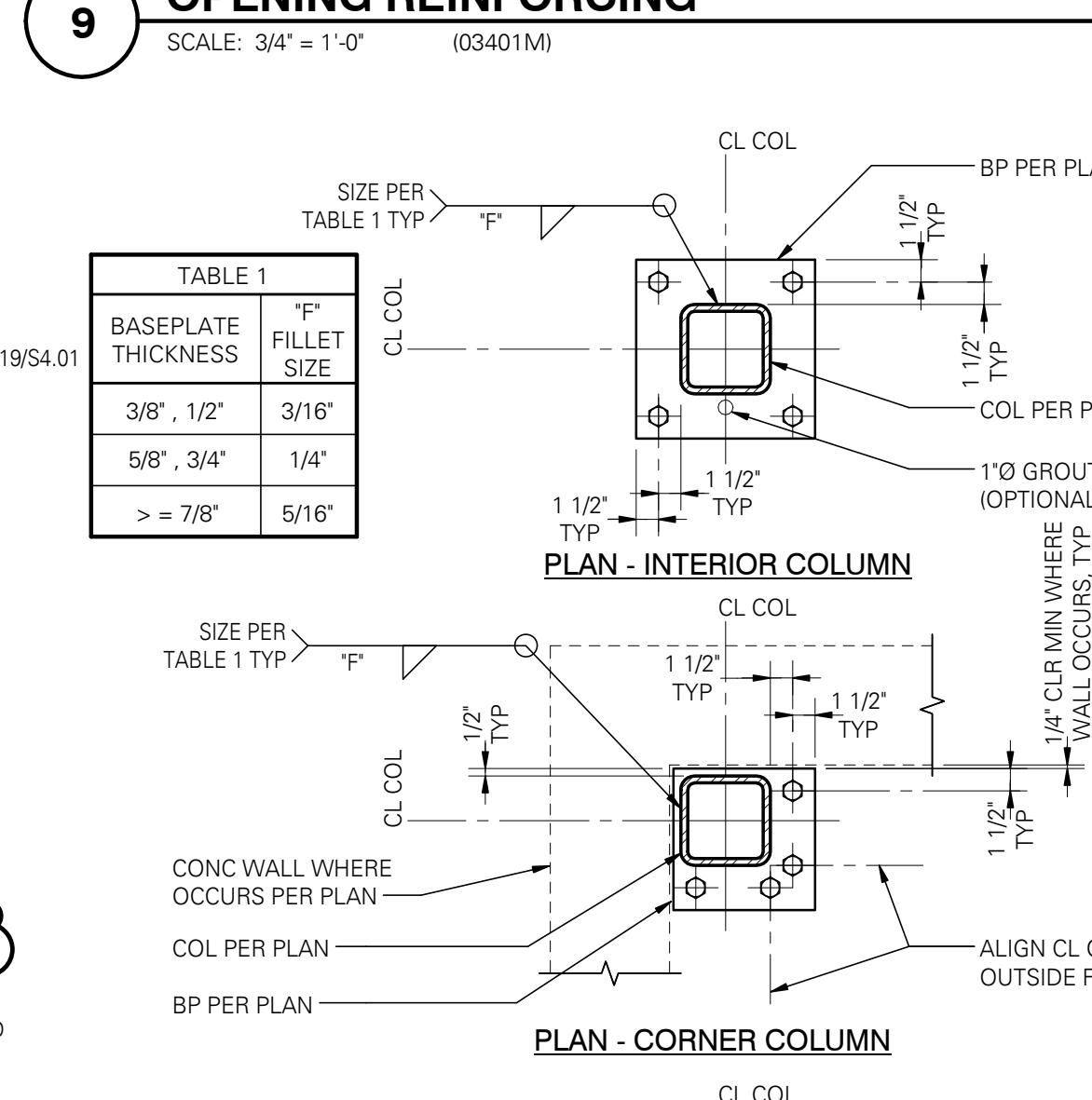
TYPICAL ANCHOR BOLT SCHEDULE

SCALE: 1" = 1'-0" (01901M)



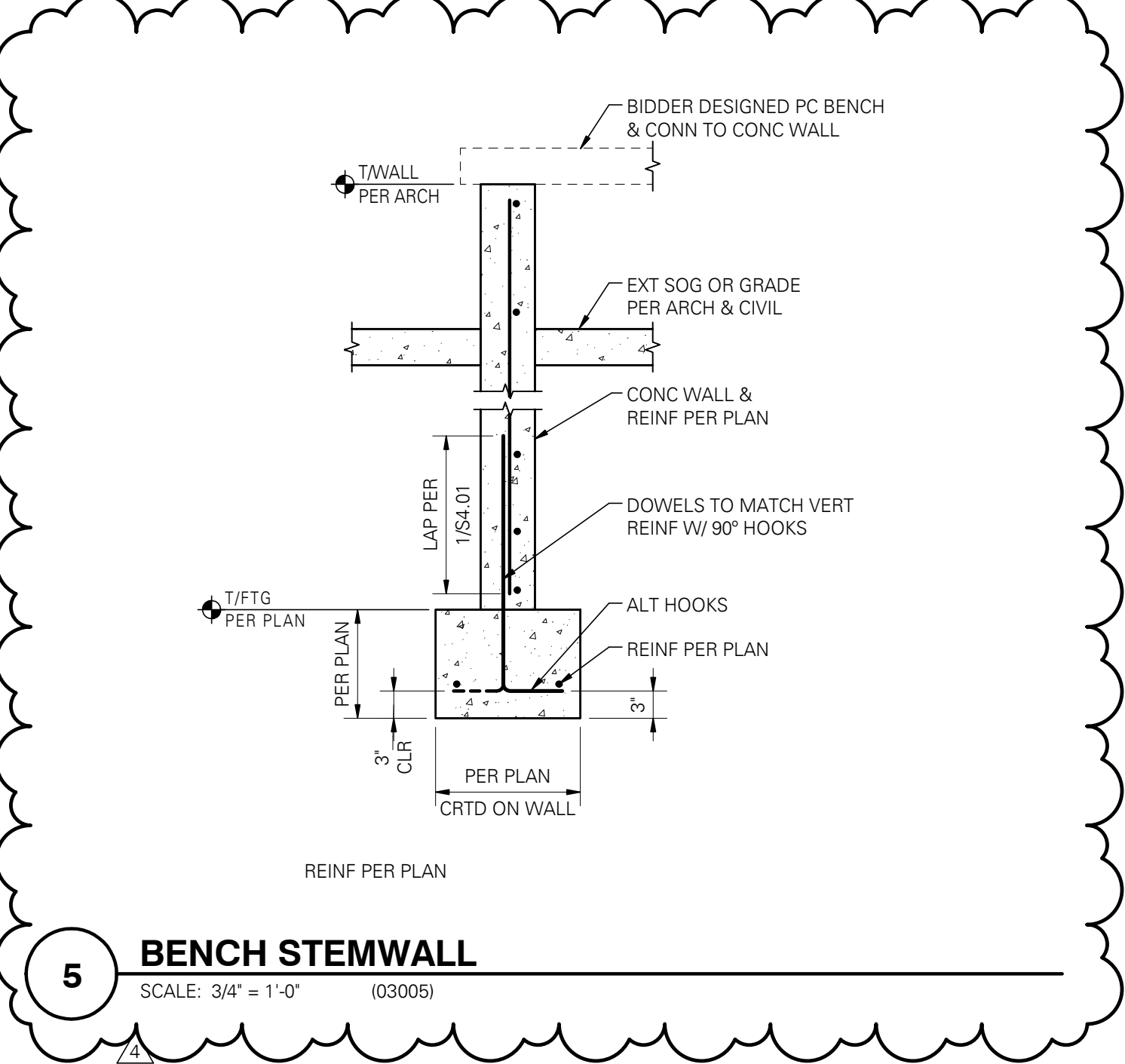
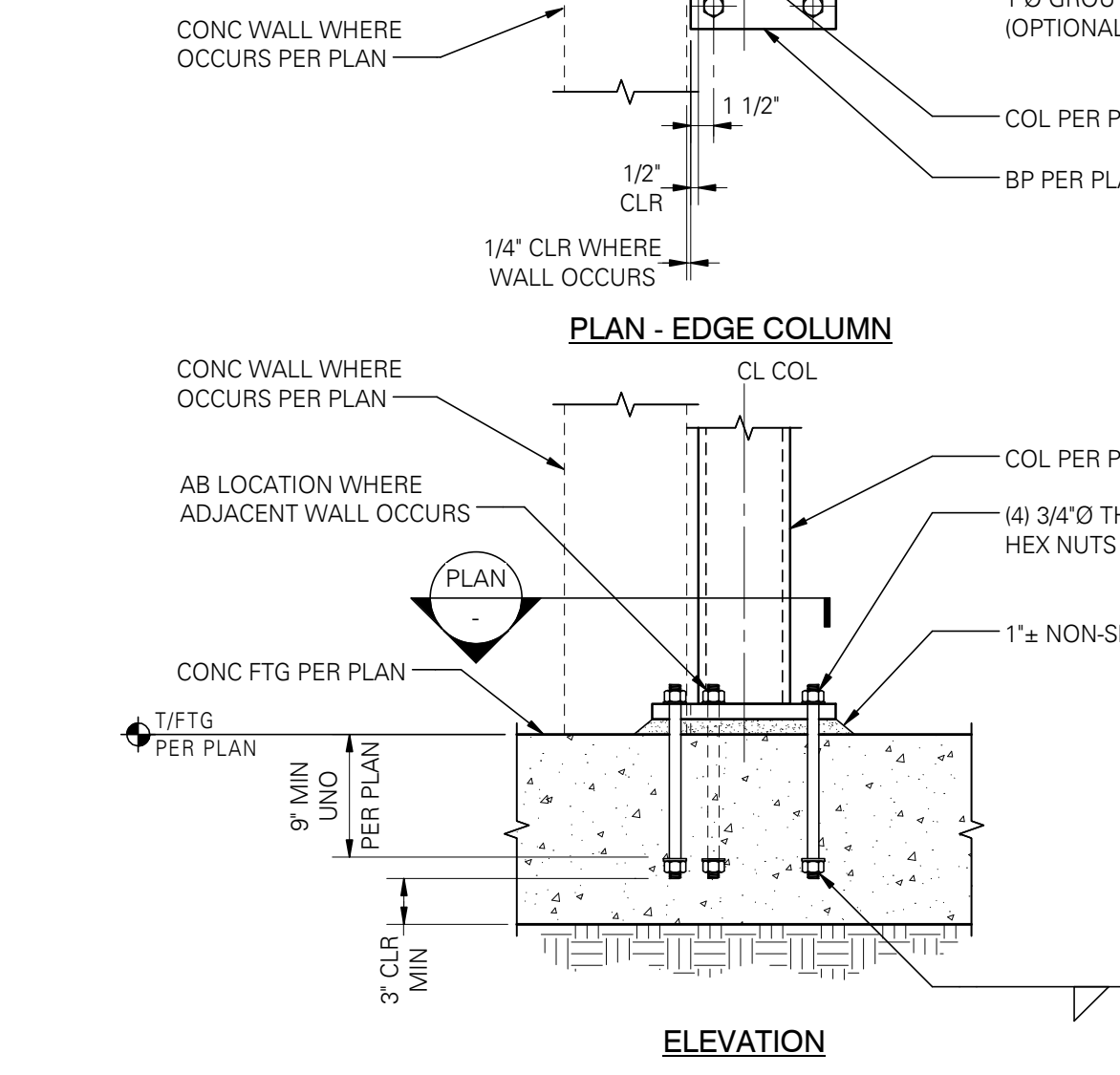
ELEVATION - TYPICAL CONCRETE WALL OPENING REINFORCING

SCALE: 3/4" = 1'-0" (03401M)



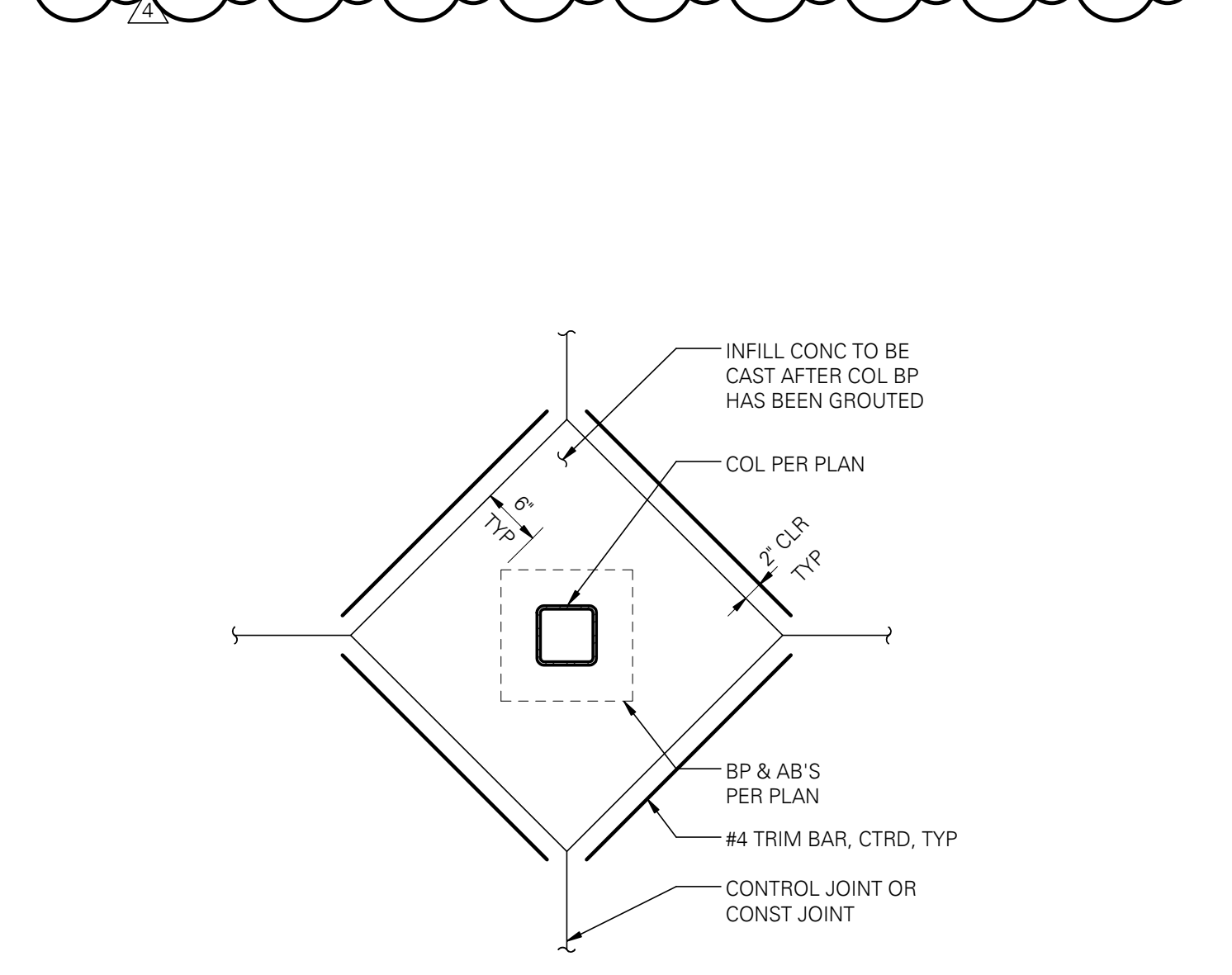
TYPICAL BASEPLATE TO FOUNDATION CONNECTION - HSS COLUMN

SCALE: 1" = 1'-0" (05030)



BENCH STEMWALL

SCALE: 3/4" = 1'-0" (03005)

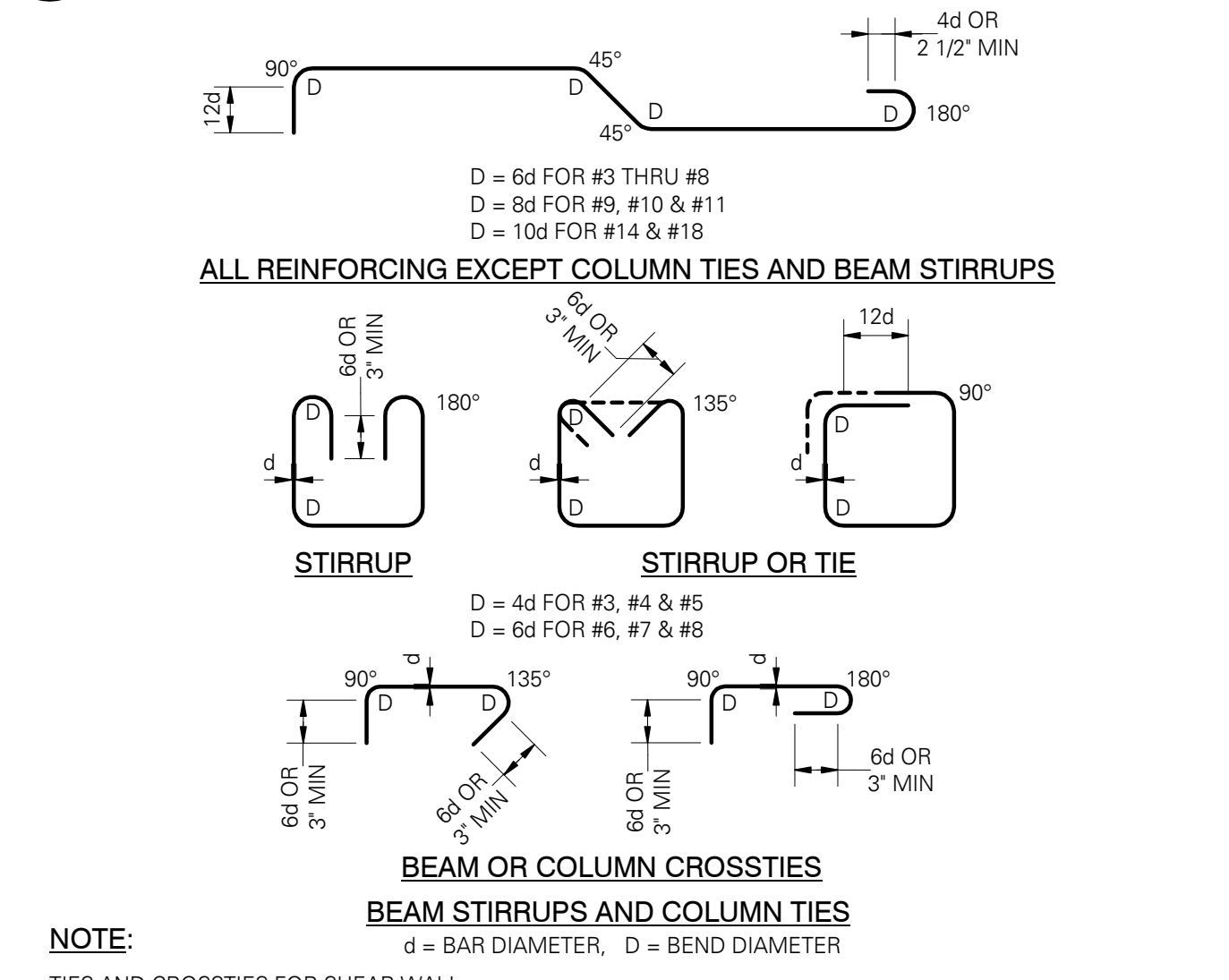


PLAN - TYPICAL CONTROL JOINT AT HSS COLUMNS

SCALE: 3/4" = 1'-0" (03212)

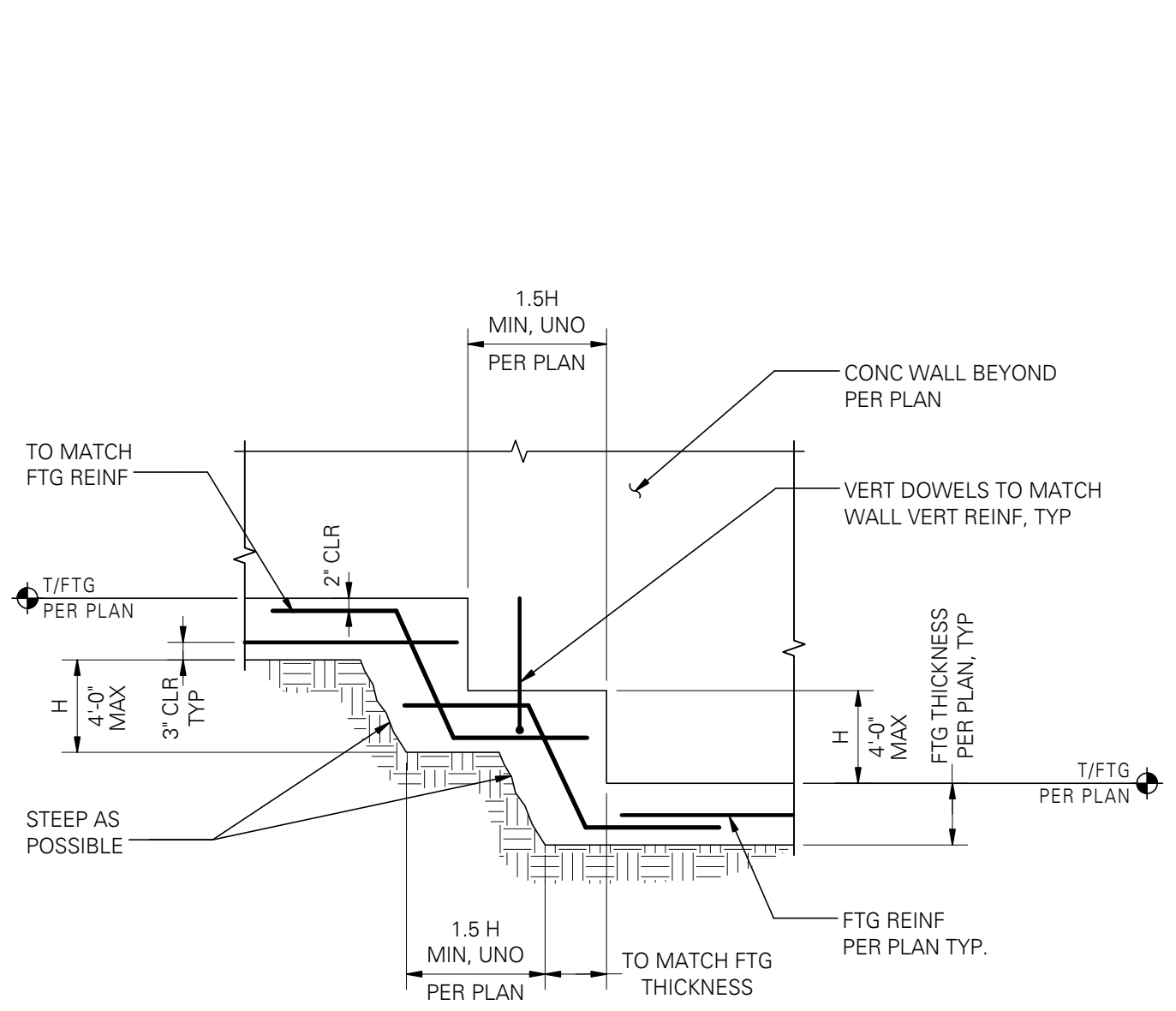
TYPICAL LAP SPlice AND DEVELOPMENT LENGTH SCHEDULE

SCALE: 3/4" = 1'-0" (01400M)



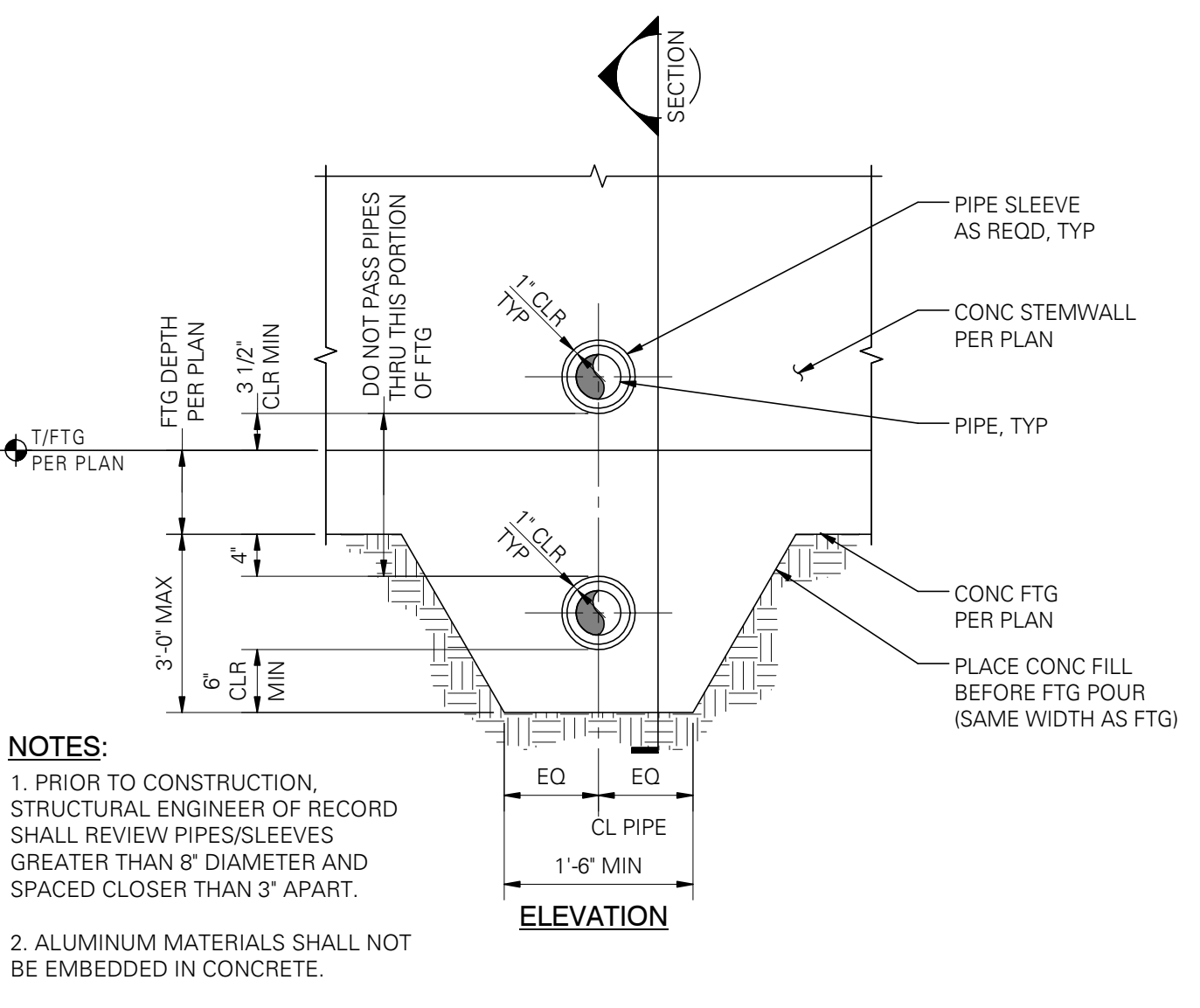
STANDARD HOOKS AND BENDS - BEAM STIRRUPS AND COLUMN TIES

SCALE: 3/4" = 1'-0" (03400)



TYPICAL STEPPED FOOTING

SCALE: 3/4" = 1'-0" (03901)



NOTES:

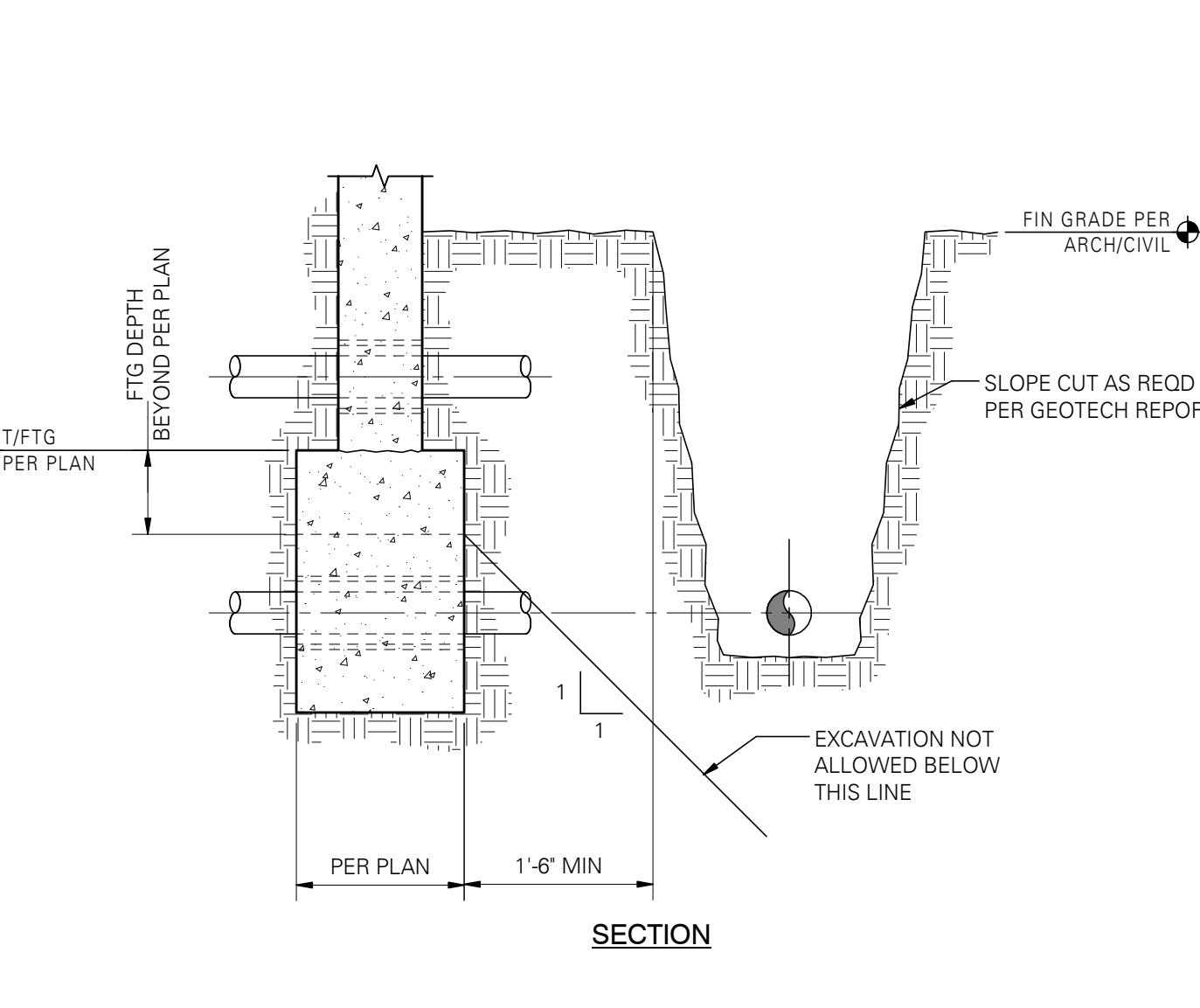
- PRIOR TO CONSTRUCTION, STRUCTURAL ENGINEER OF RECORD SHALL REVIEW PIPES/SLEEVES GREATER THAN 8" DIAMETER AND SPACED CLOSER THAN 3' APART.
- ALUMINUM MATERIALS SHALL NOT BE EMBEDDED IN CONCRETE.

TYPICAL PIPE AND TRENCH LOCATIONS AT CONCRETE STEMWALL/FOOTING

SCALE: 3/4" = 1'-0" (03906)

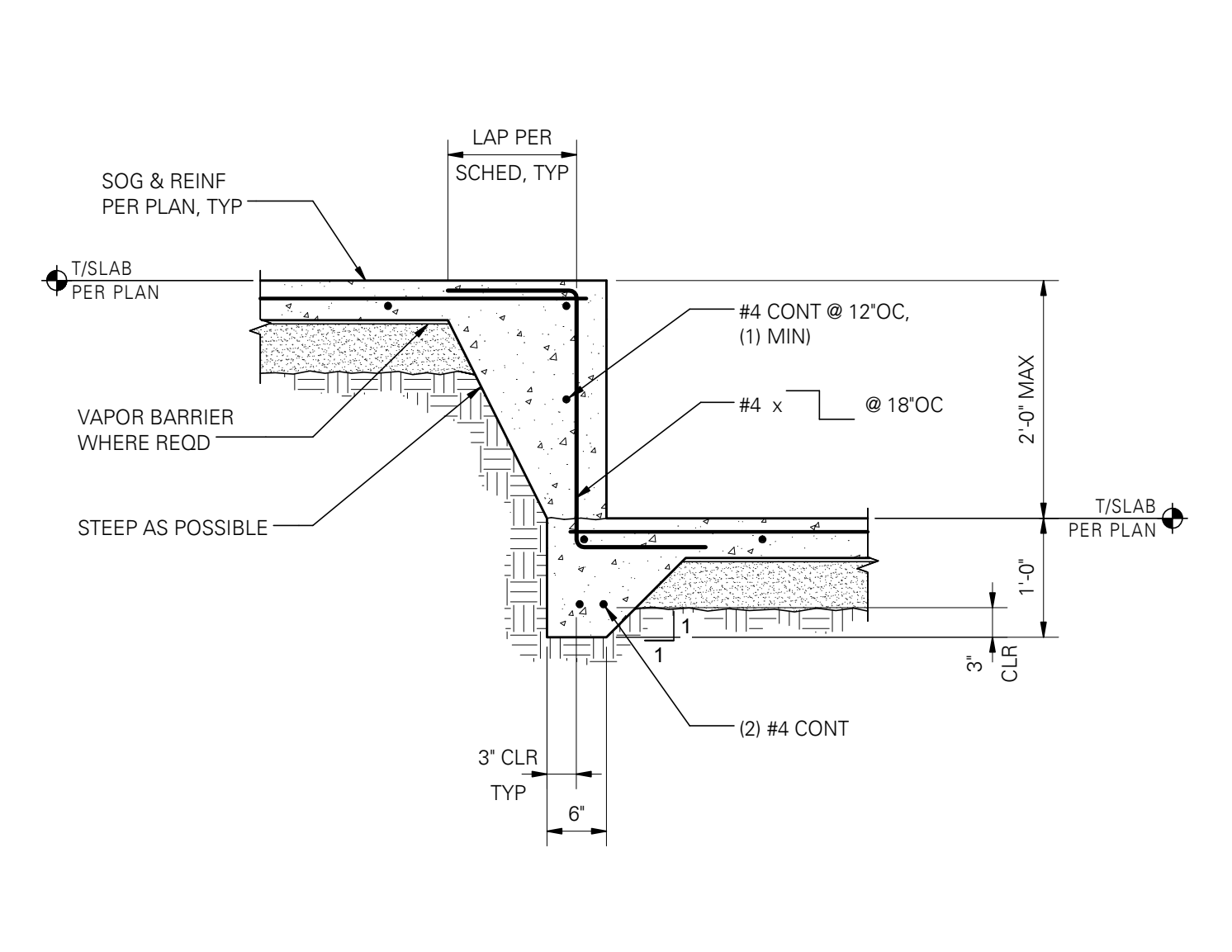
TYPICAL DEPRESSED SLAB DETAIL

SCALE: 3/4" = 1'-0" (03202)



COLUMN BASEPLATE AT EXISTING STEMWALL

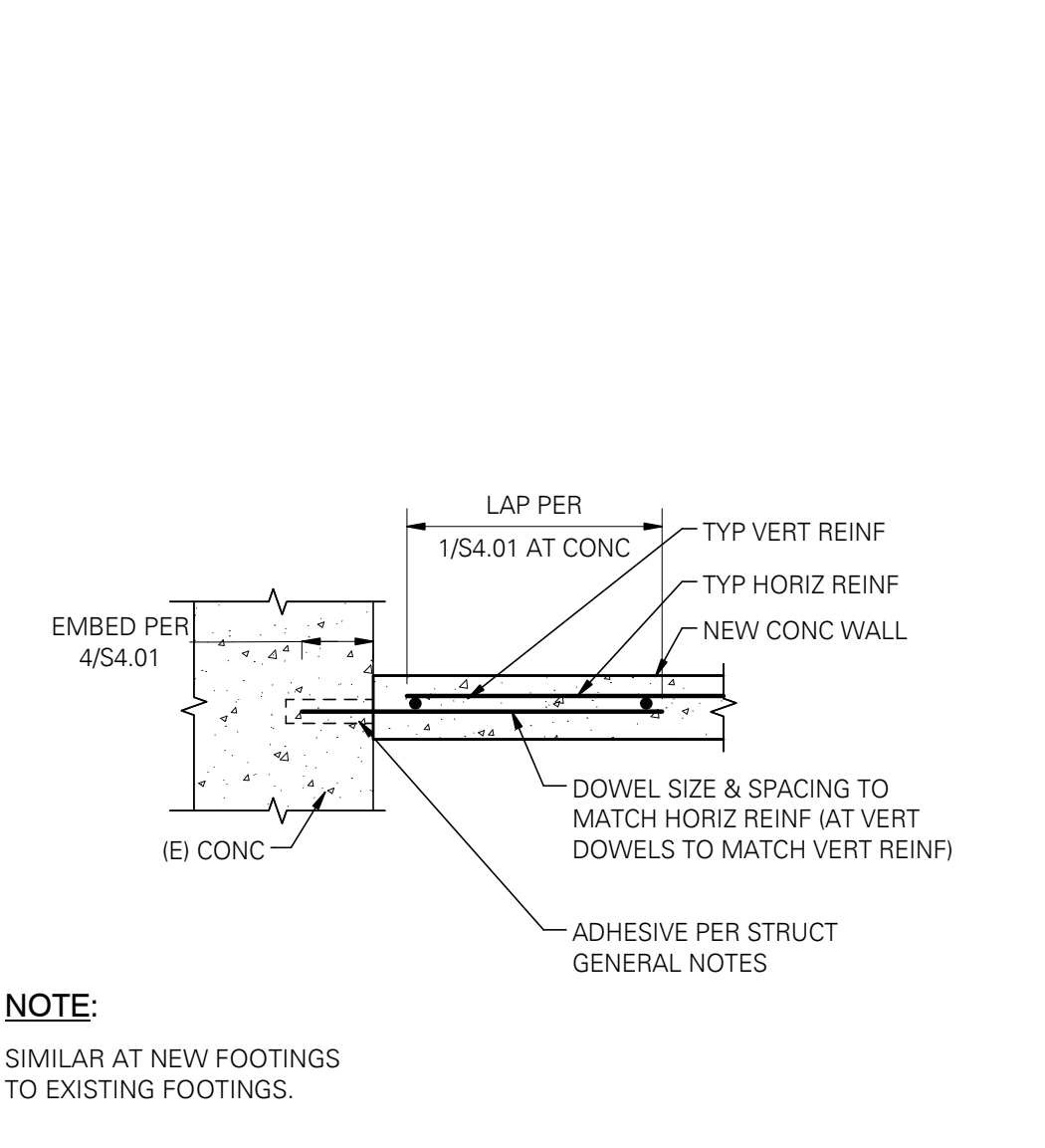
SCALE: 1" = 1'-0"



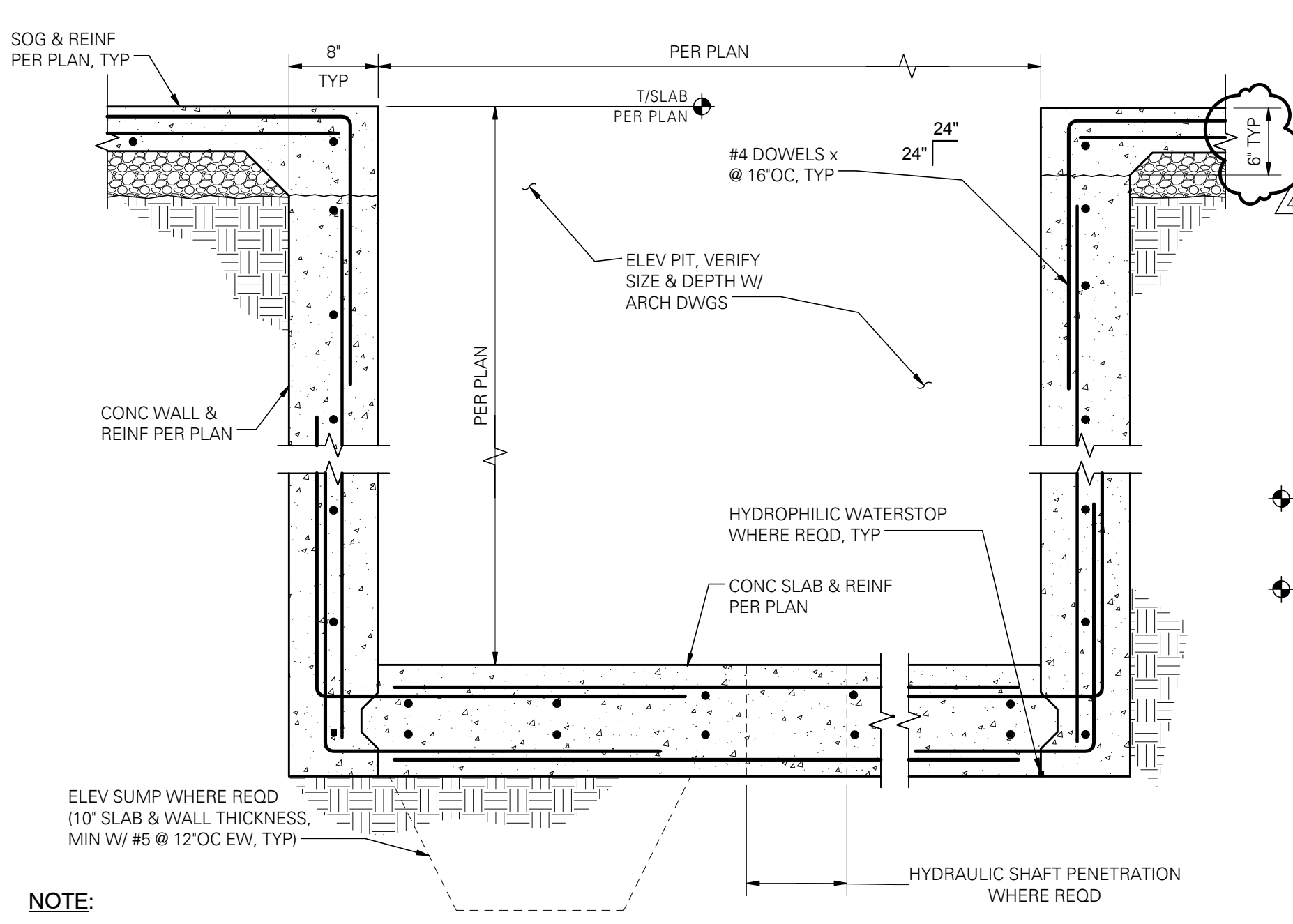
TYPICAL STEP AT SLAB ON GRADE

SCALE: 3/4" = 1'-0" (03202A)

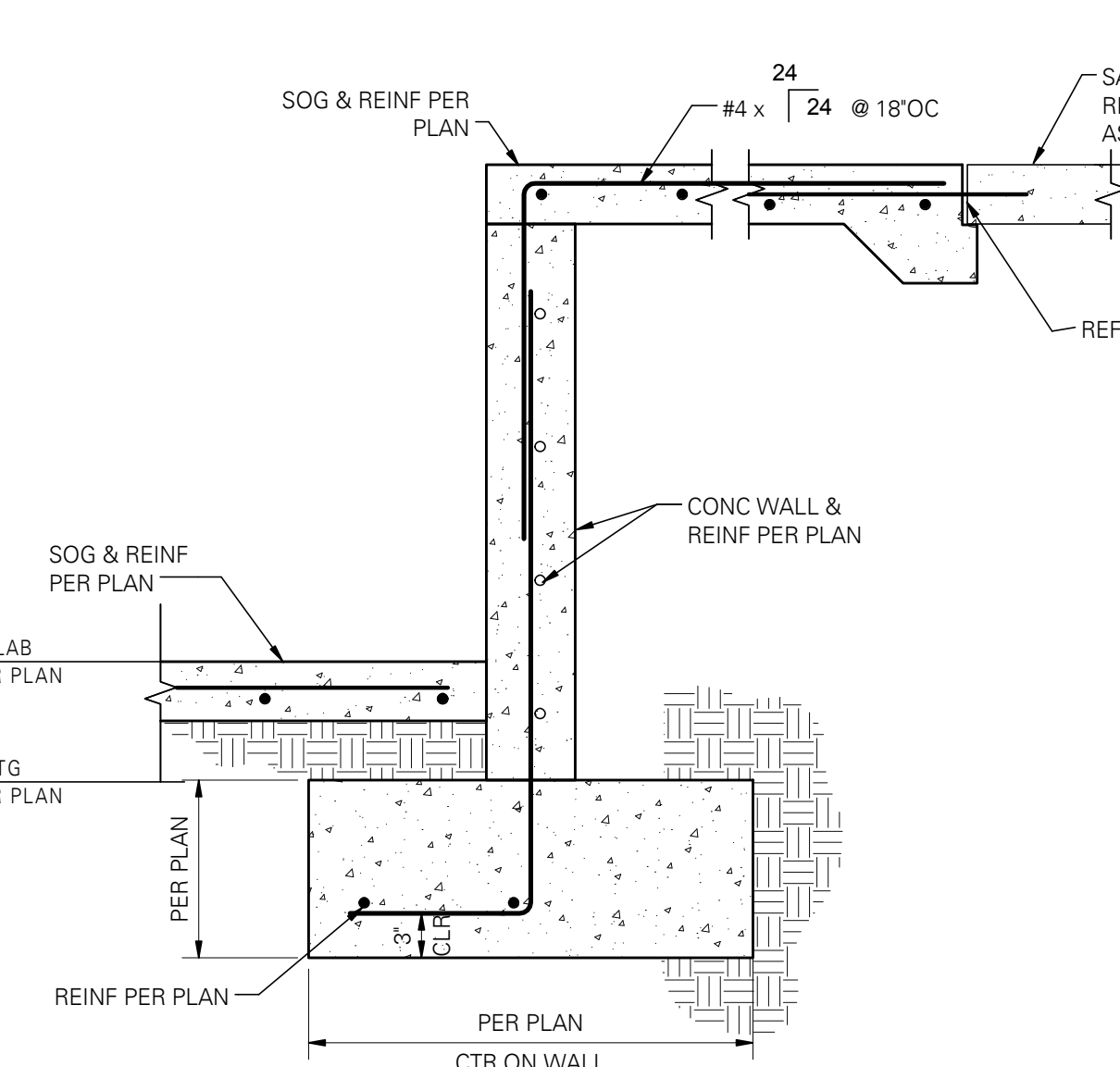




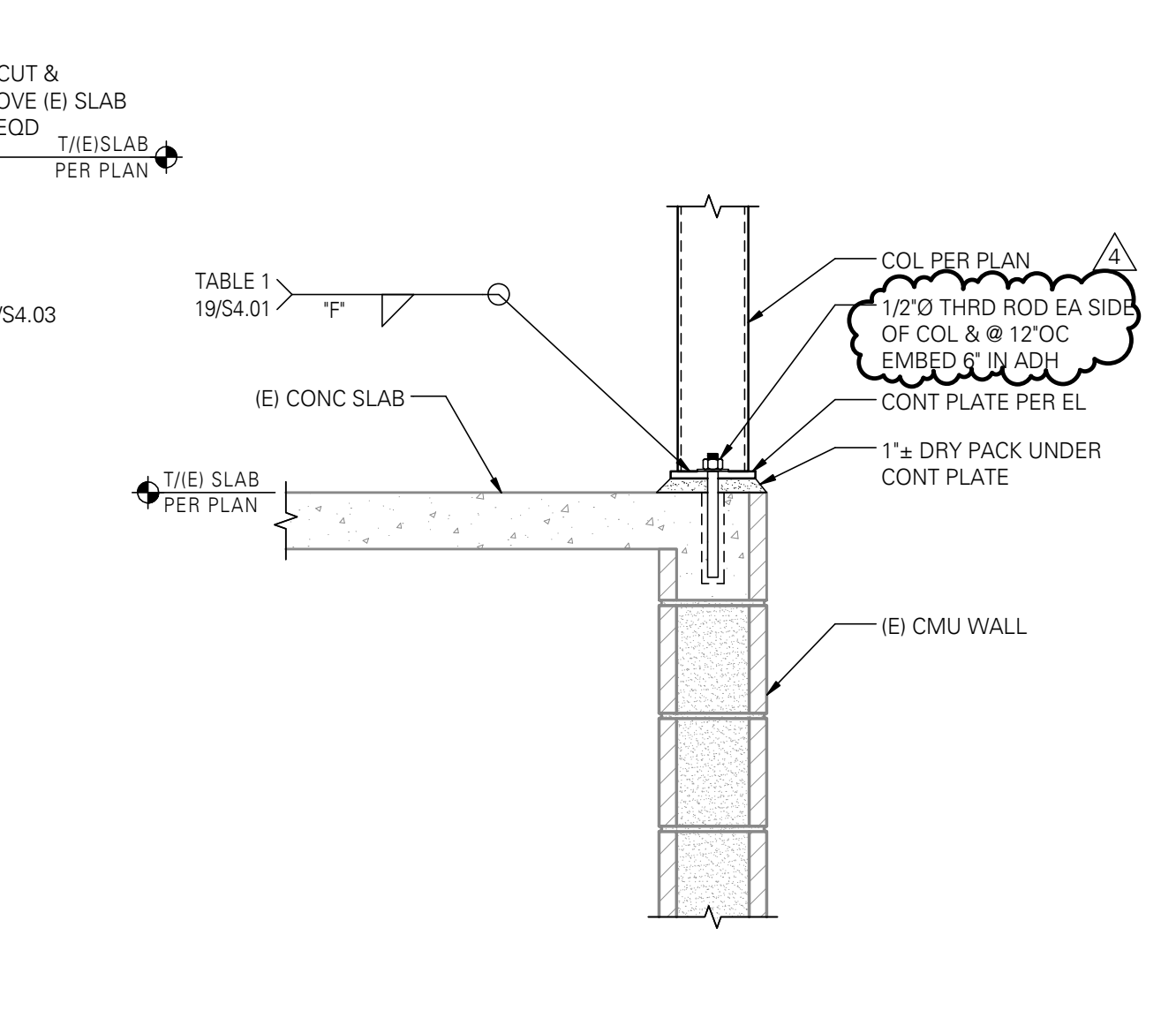
1 TYPICAL NEW CONCRETE TO EXISTING CONCRETE
 SCALE: 1" = 1'-0"



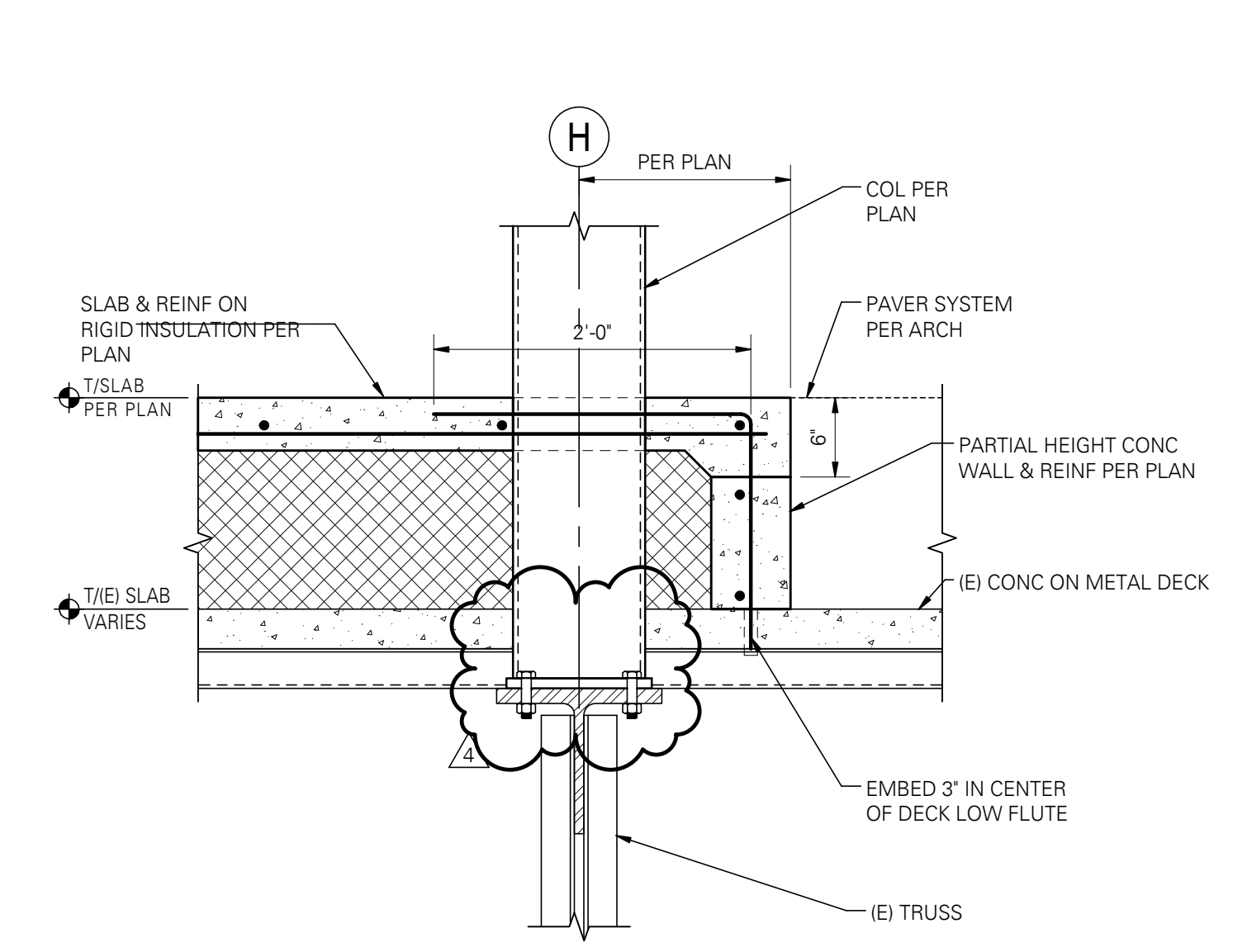
2 ELEVATOR PIT SECTION
 SCALE: 1" = 1'-0"



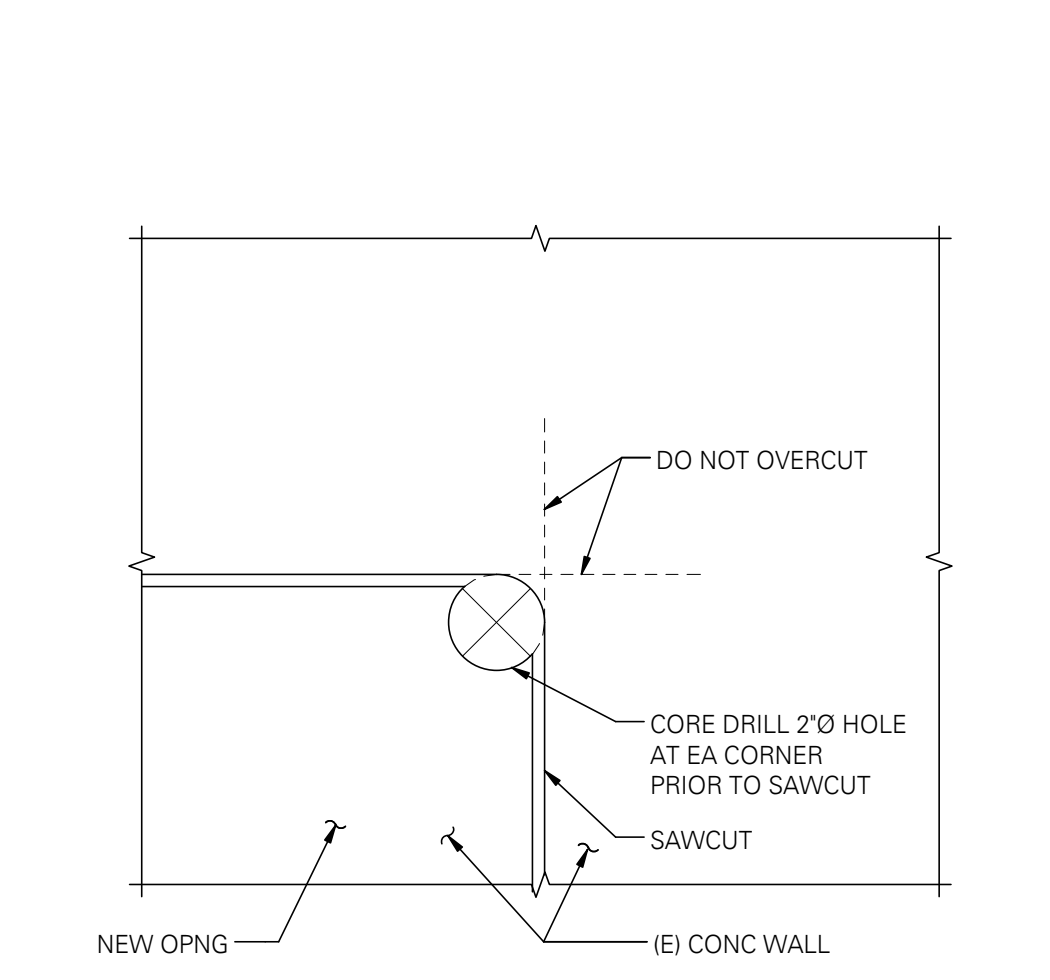
3 STEM WALL AT BLACK BOX
 SCALE: 1" = 1'-0"



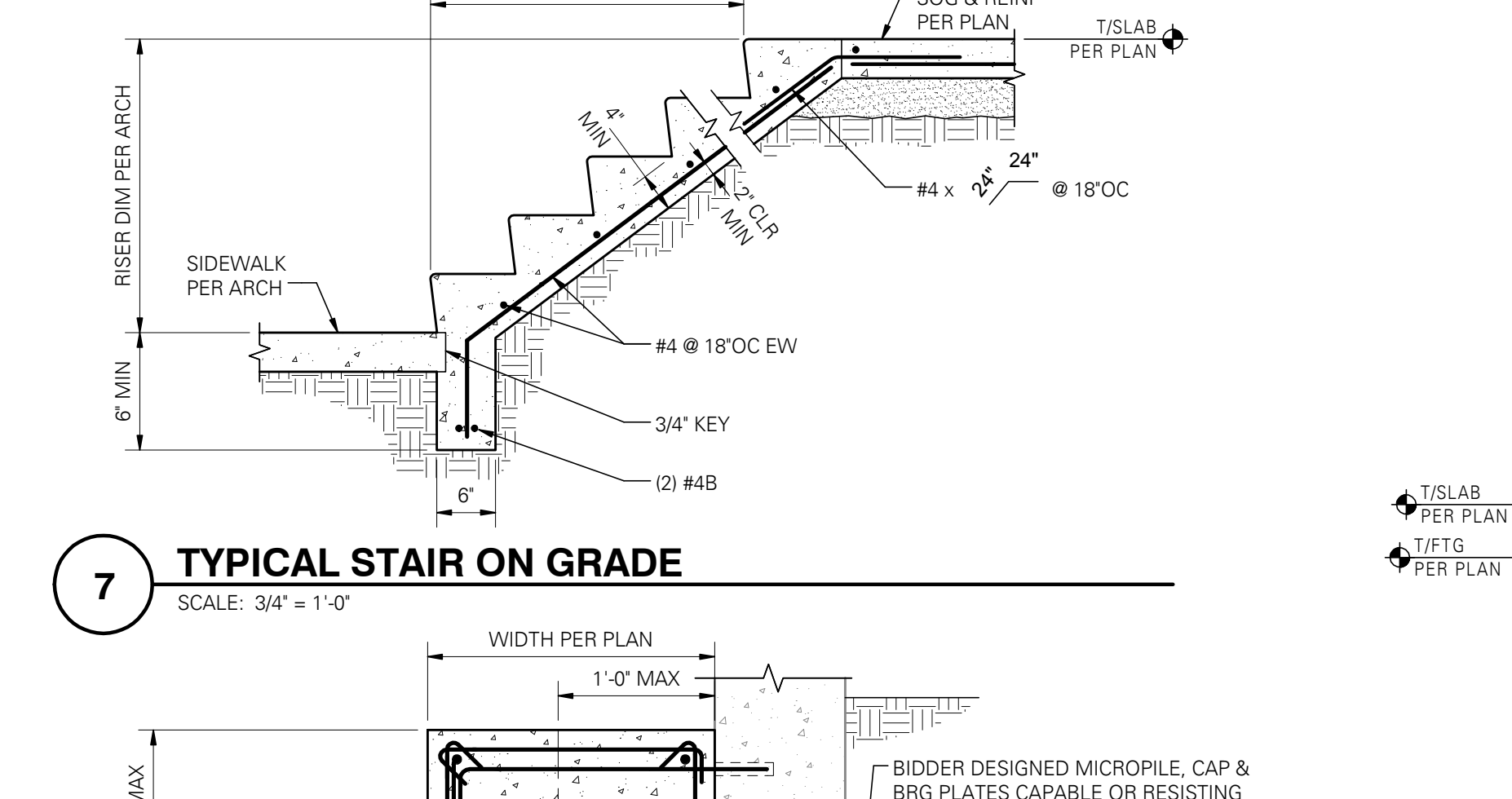
4 GRID H COLUMN TO EXISTING CMU WALL
 SCALE: 1" = 1'-0"



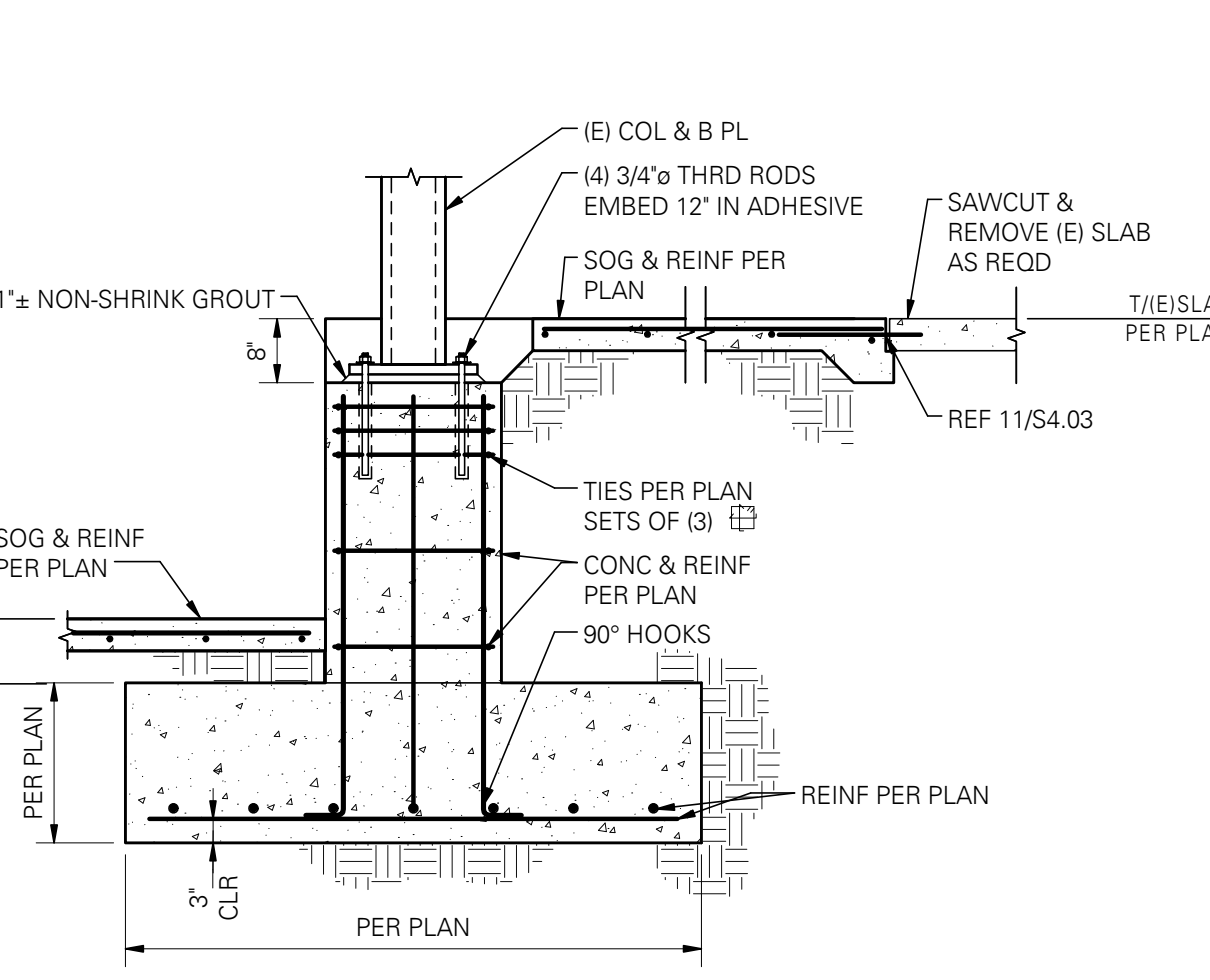
5 COLUMN AT EXISTING TRUSS
 SCALE: 1" = 1'-0"



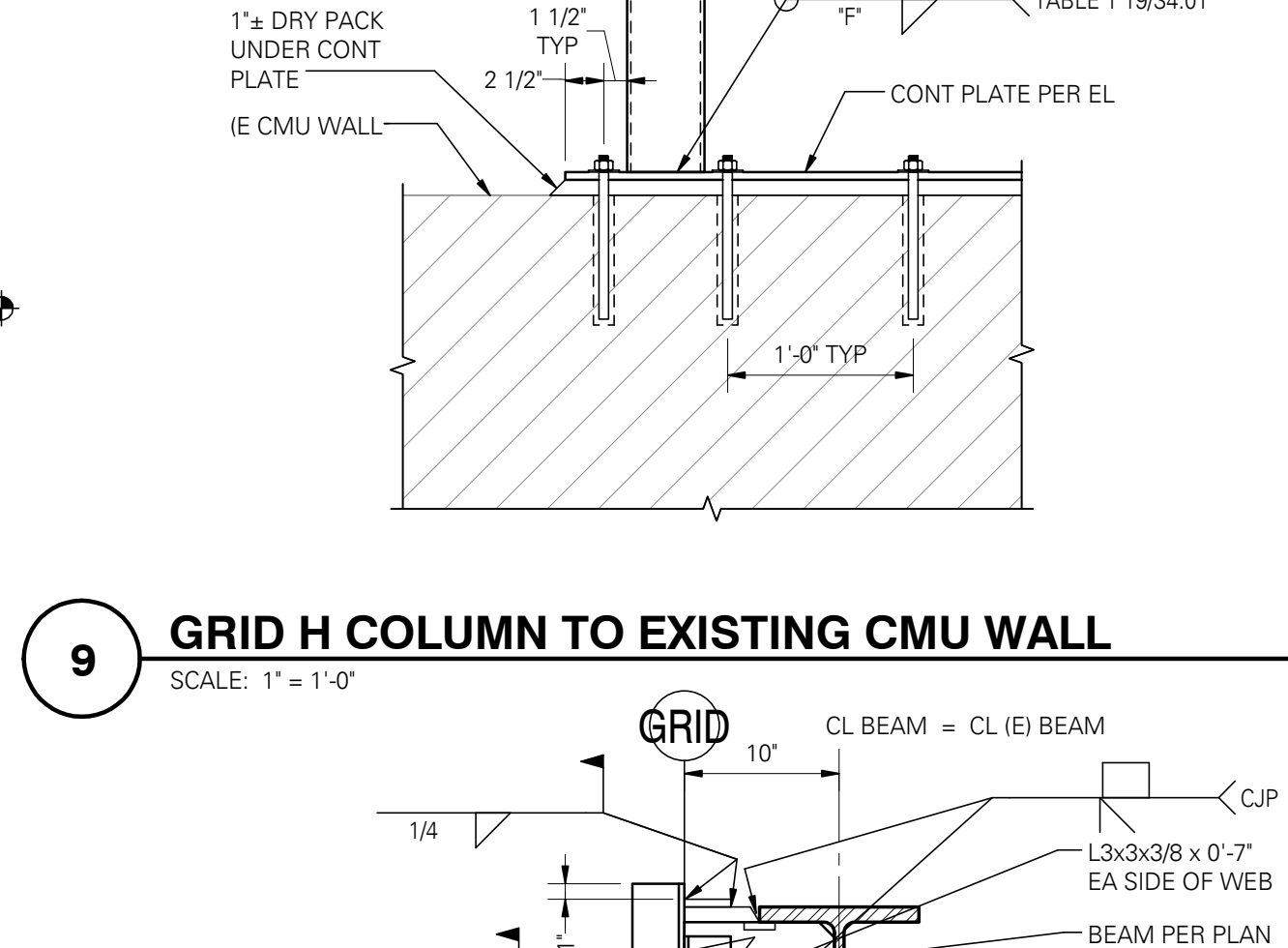
6 TYPICAL SAWCUT IN EXISTING CONCRETE WALL OR SLAB
 SCALE: 3\"/>



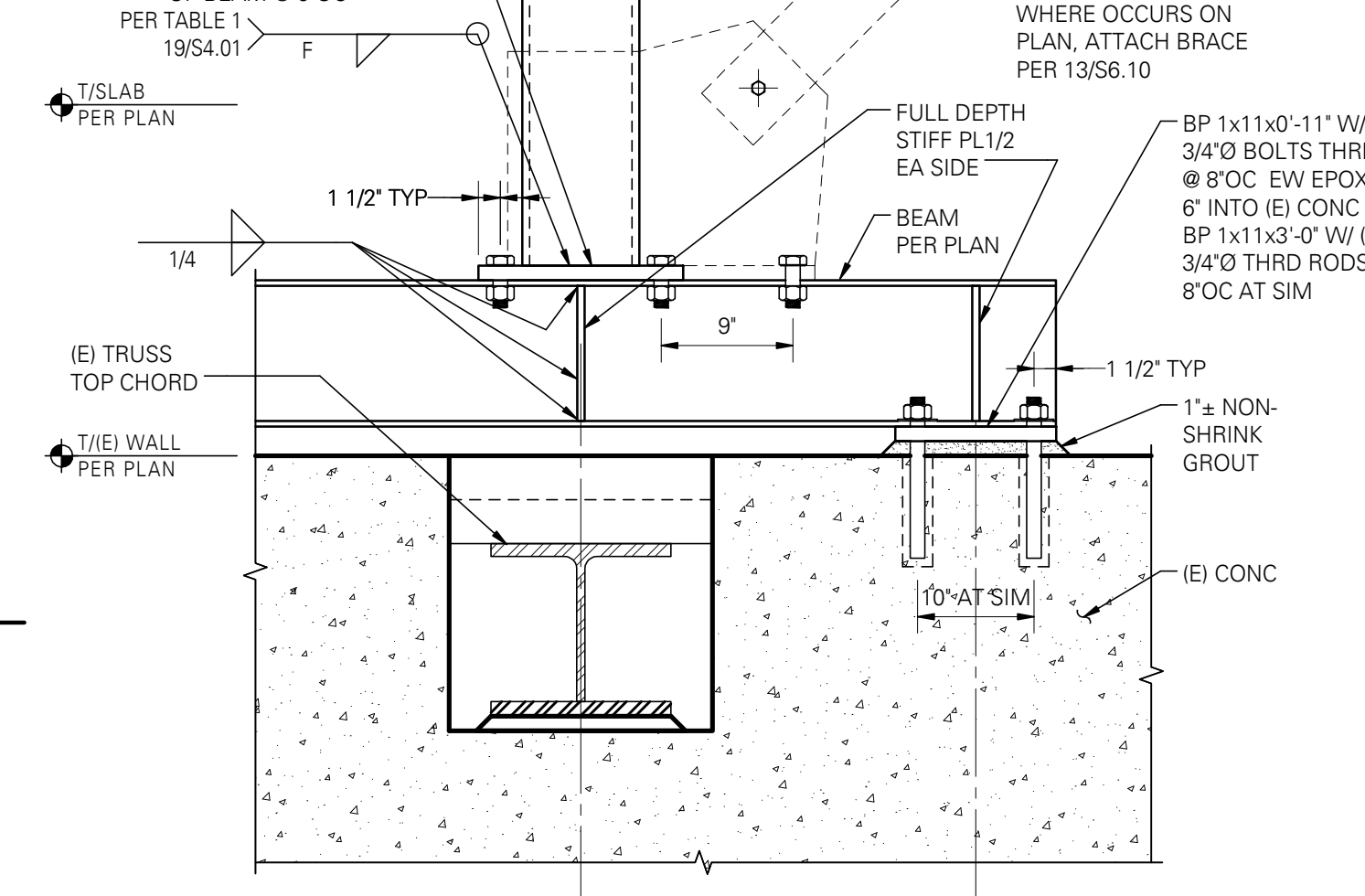
7 TYPICAL STAIR ON GRADE
 SCALE: 3/4\"/>



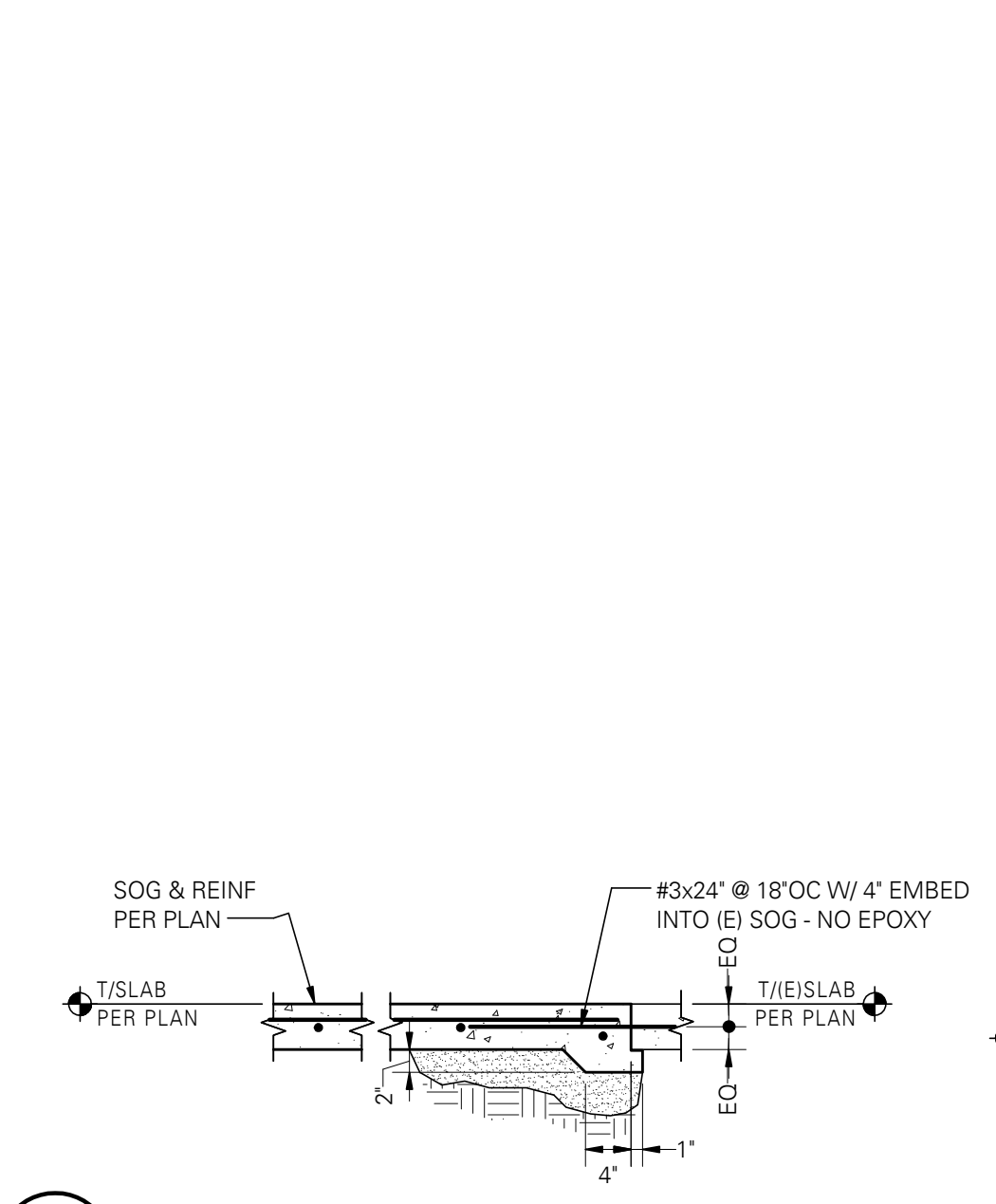
8 EXISTING COLUMN AT NEW FOOTING
 SCALE: 1/2\"/>



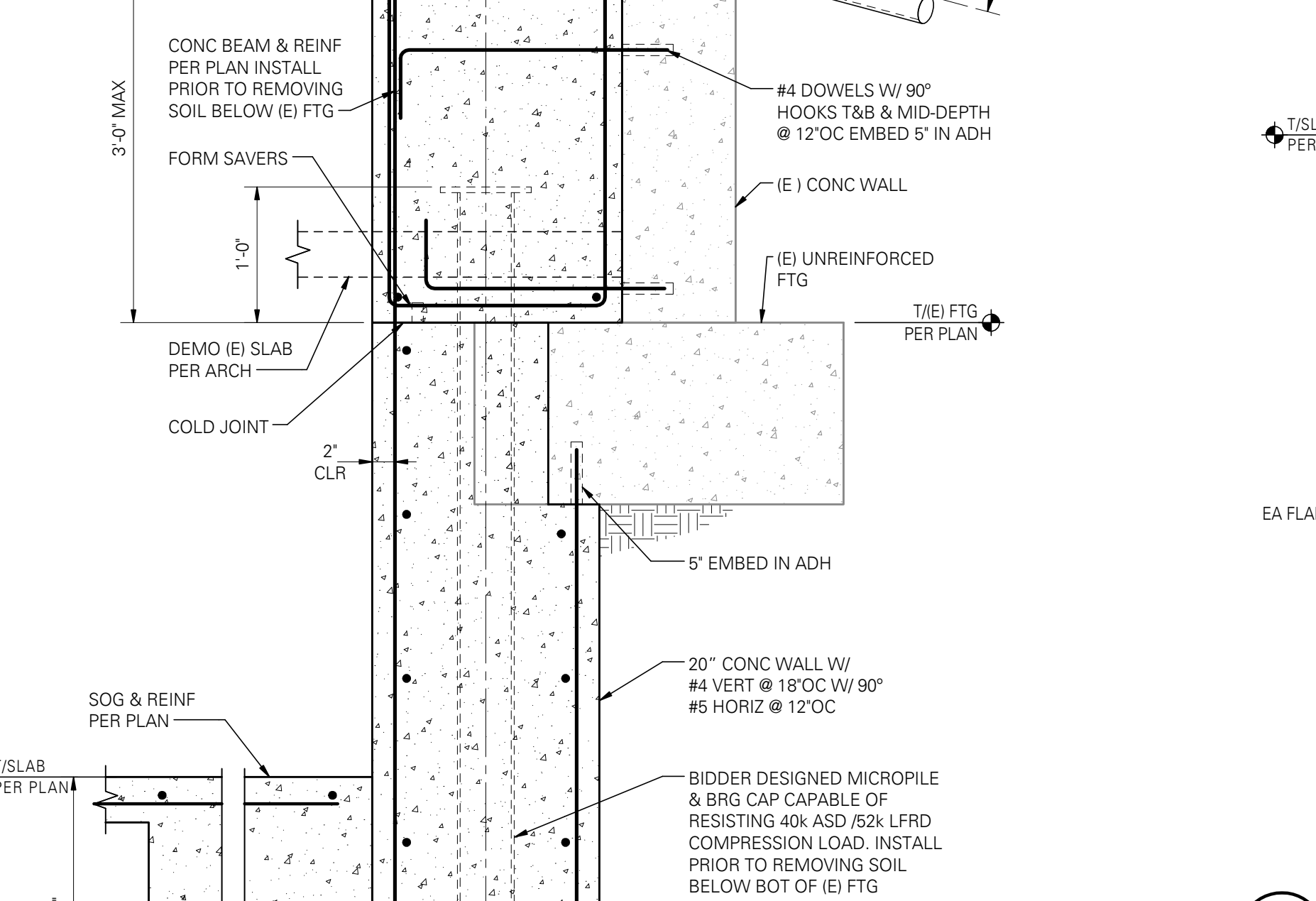
9 GRID H COLUMN TO EXISTING CMU WALL
 SCALE: 1" = 1'-0"



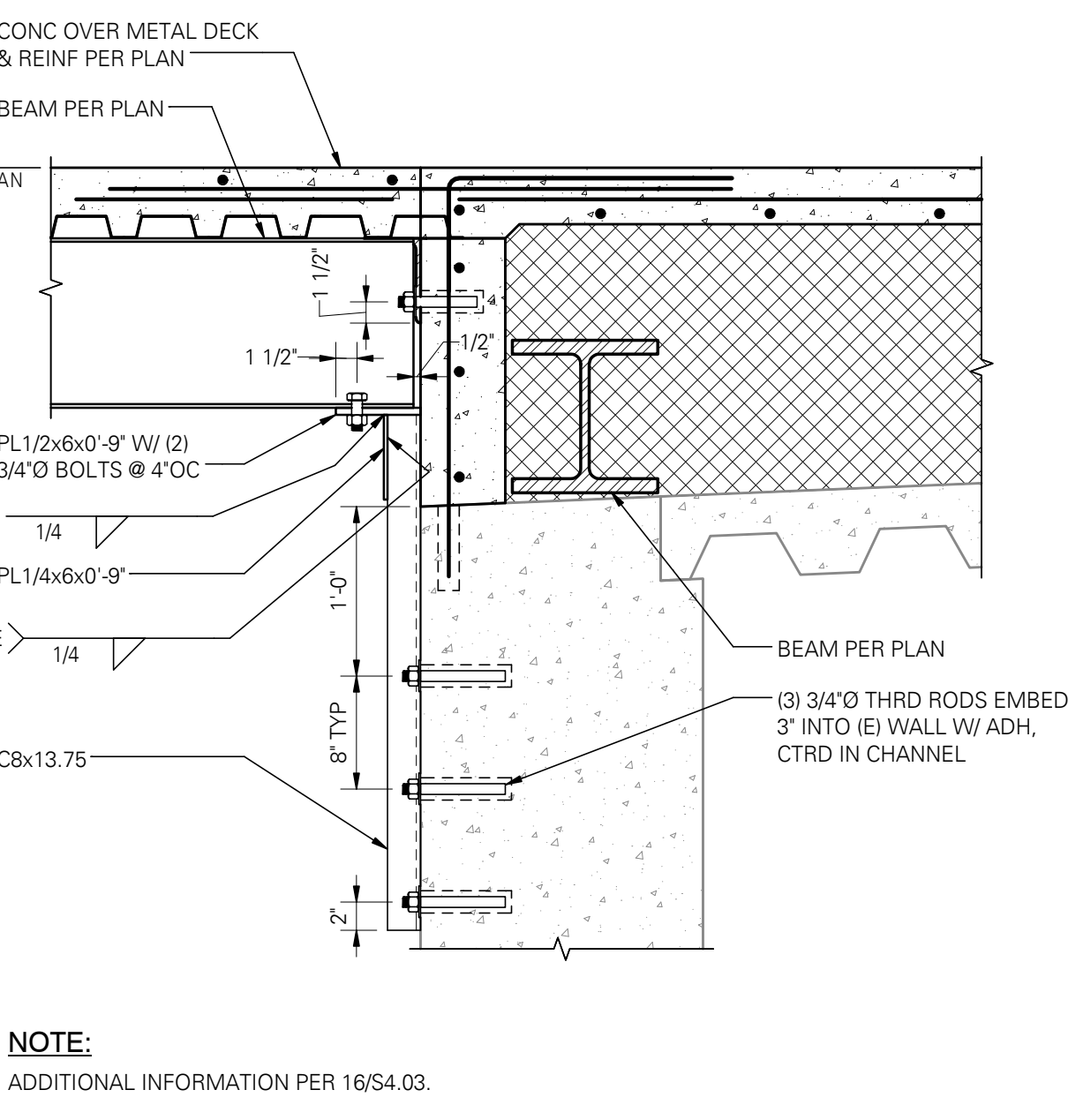
10 BEAM OVER EXISTING TRUSS
 SCALE: 1" = 1'-0"



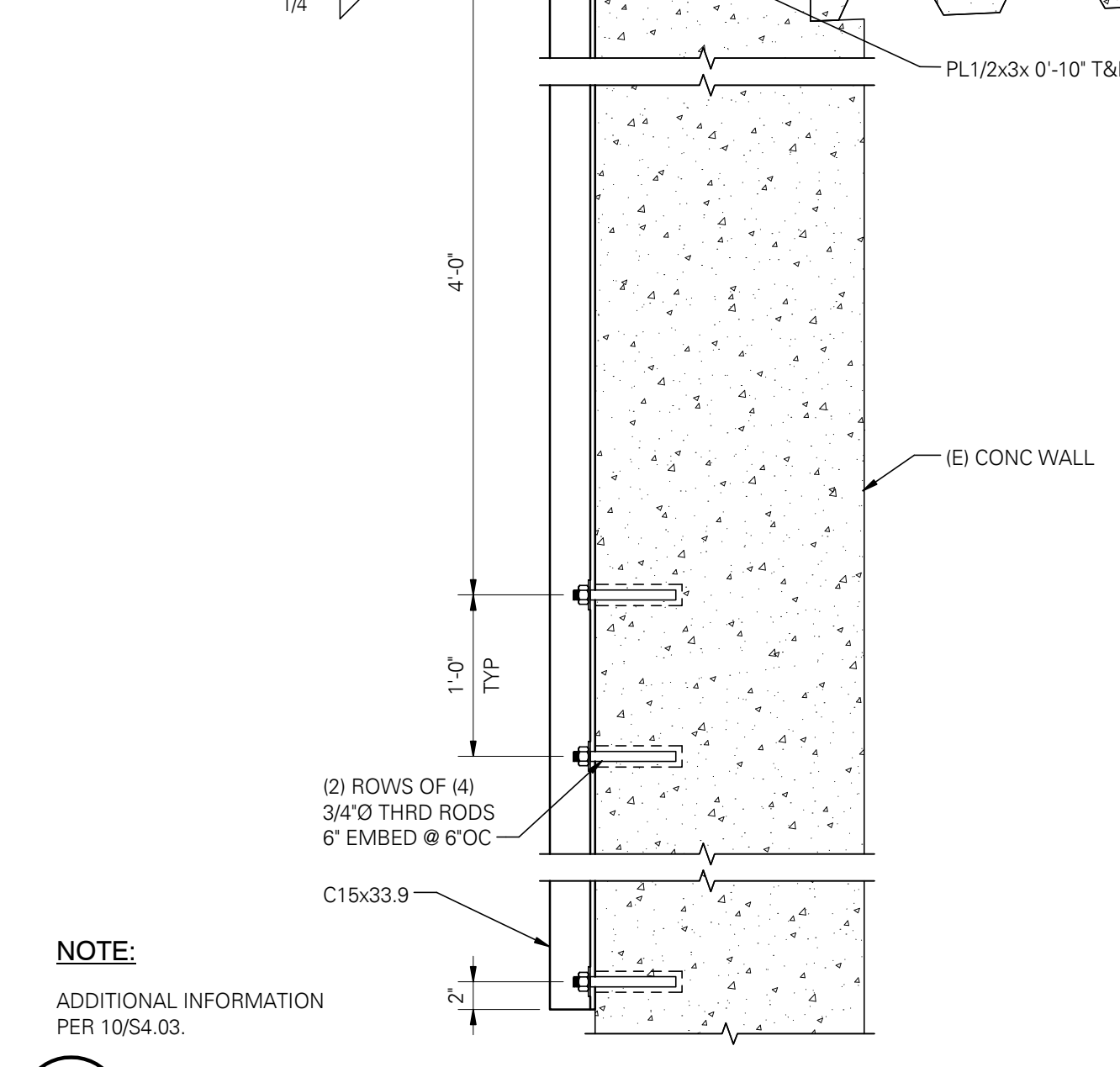
11 NEW/EXISTING SLAB JOINT
 SCALE: 3/4\"/>



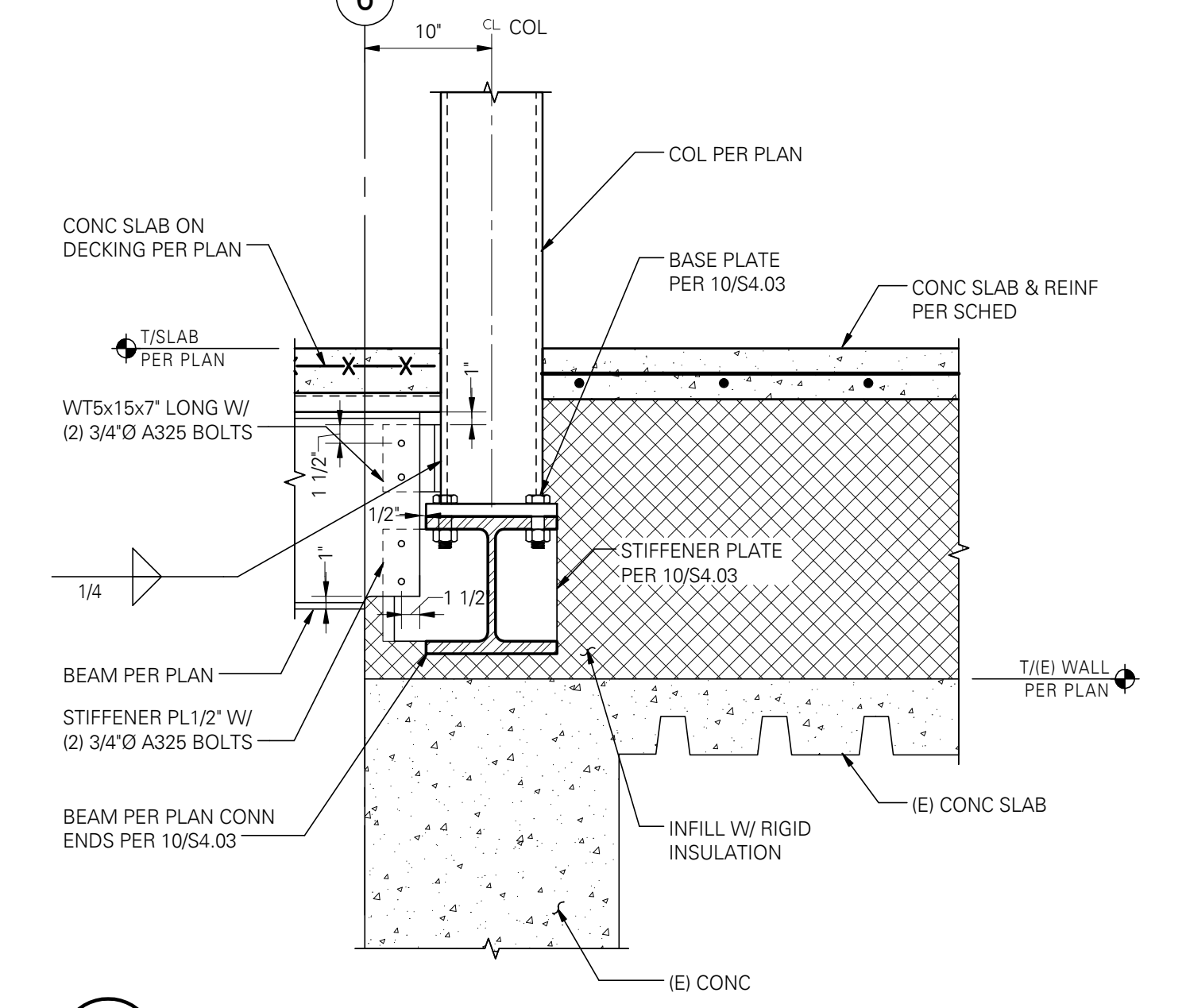
12 MICROPILES AT EXISTING WALL
 SCALE: 1" = 1'-0"



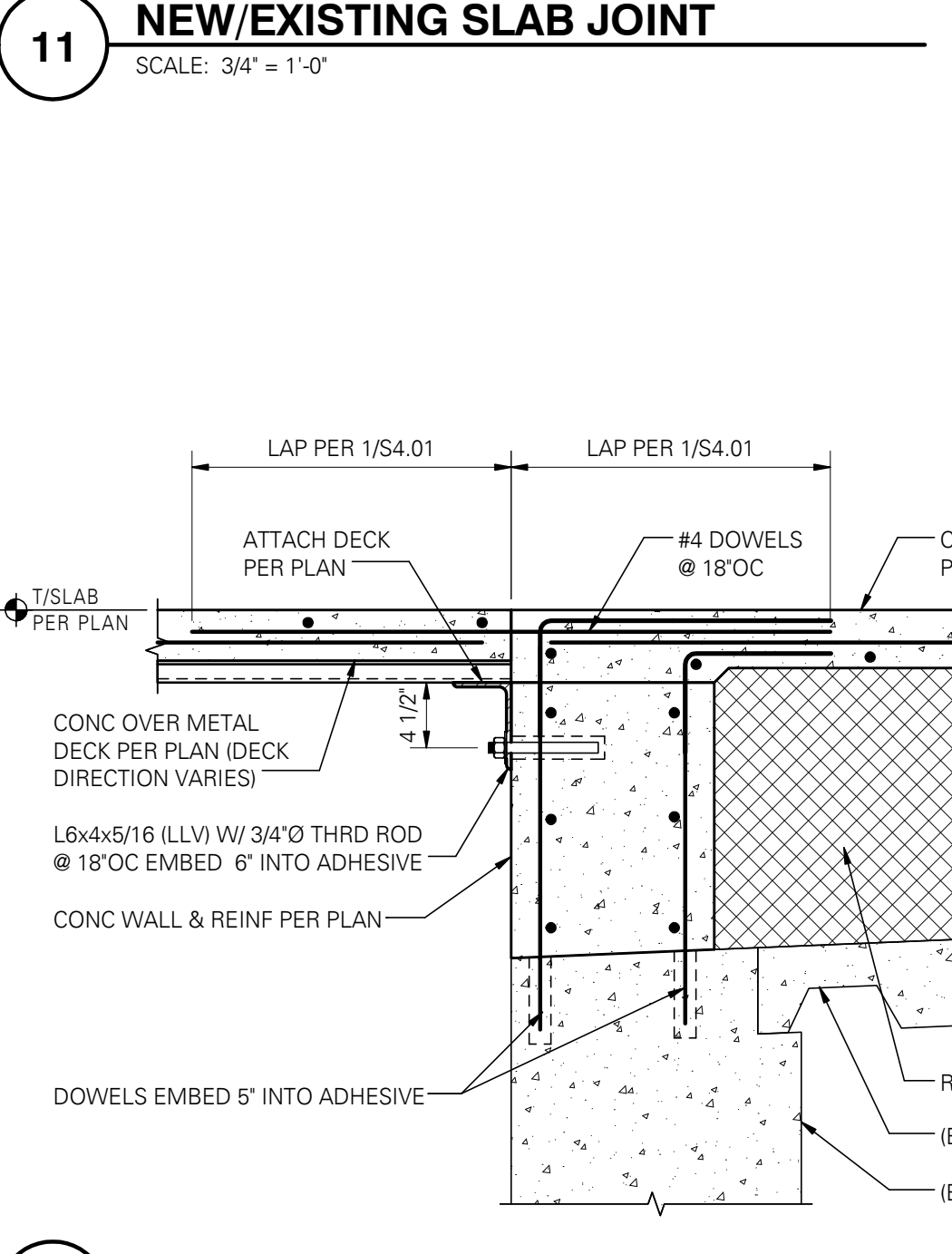
13 TYPICAL CONCRETE WALL TO EXISTING WALL
 SCALE: 1" = 1'-0"



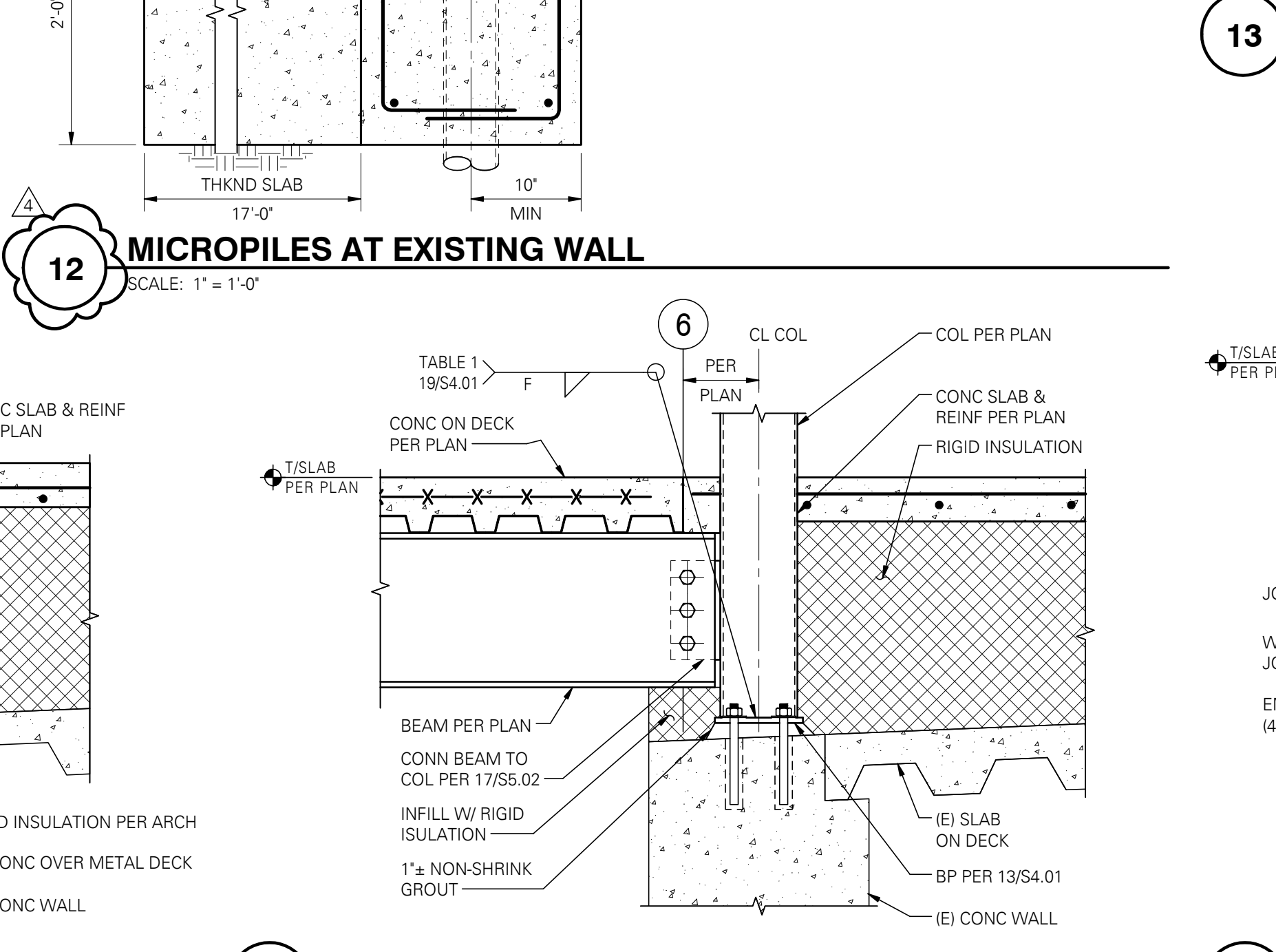
14 BEAM TO EXISTING WALL AT BRACE FRAME
 SCALE: 1" = 1'-0"



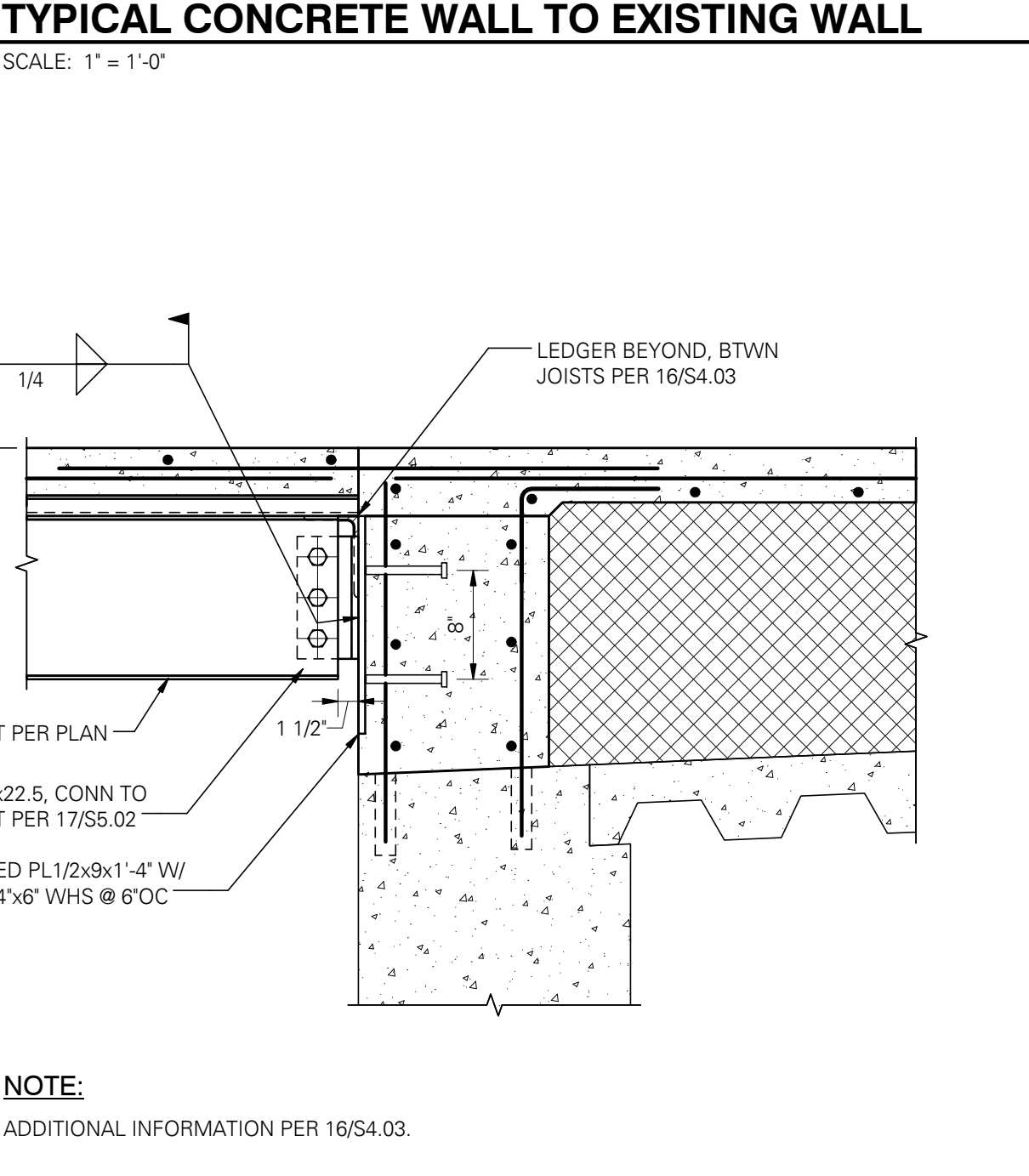
15 BEAM TO COLUMN CONNECTION AT GRID 6 & H.7
 SCALE: 1" = 1'-0"



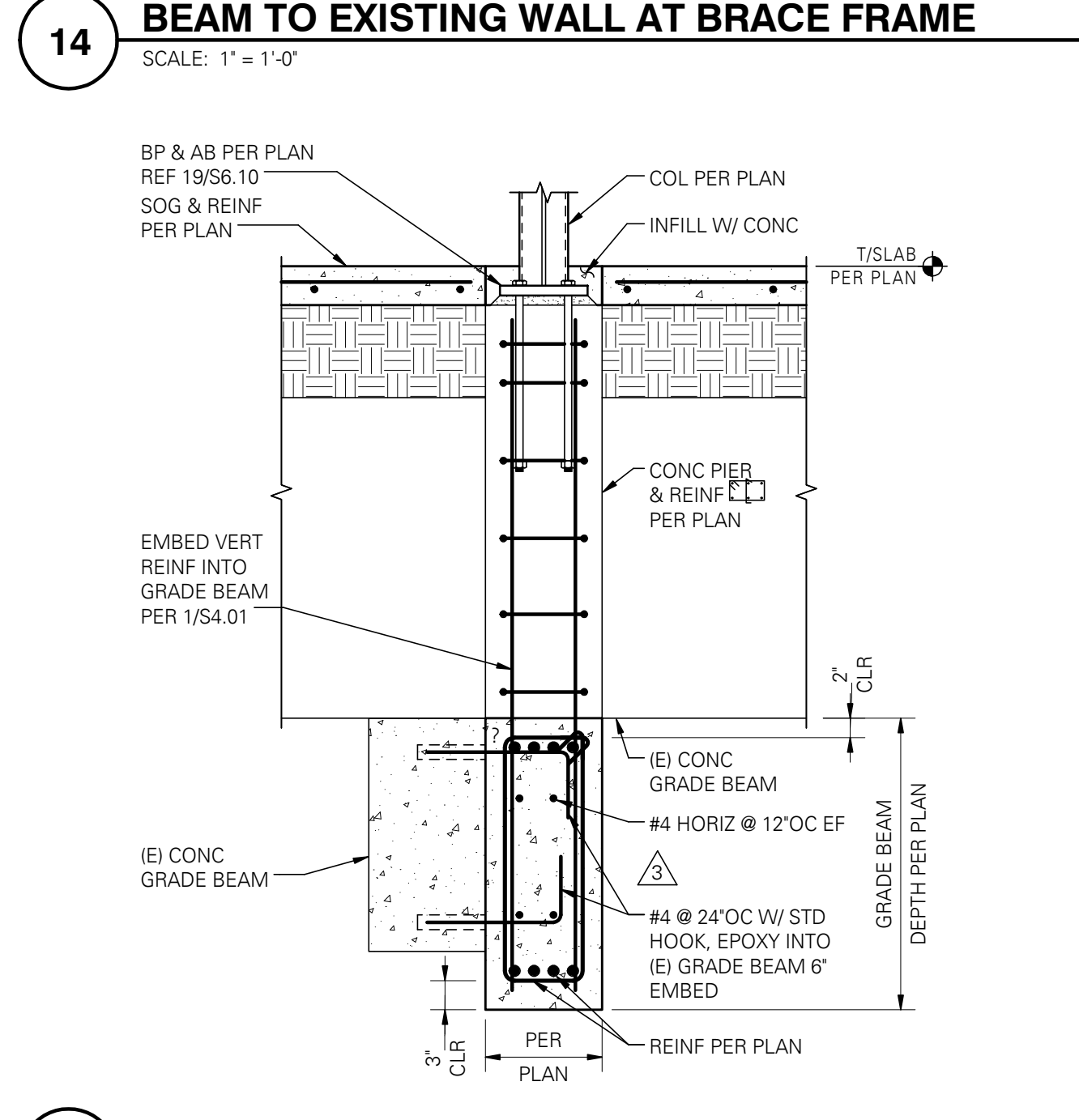
16 TYPICAL CONCRETE WALL TO EXISTING WALL
 SCALE: 1" = 1'-0"



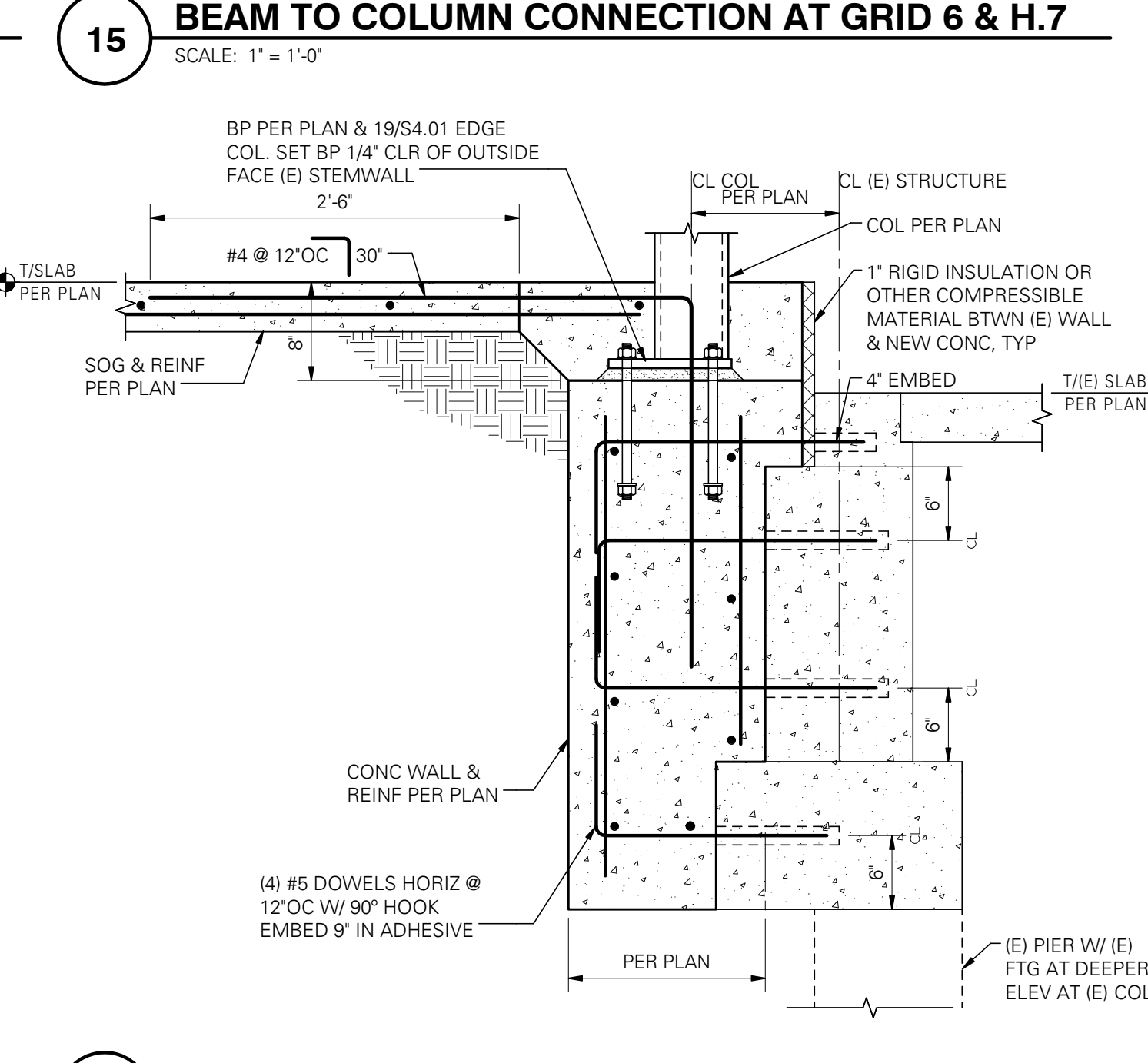
17 COLUMN TO EXISTING WALL AT GRID 6 AND GRID K
 SCALE: 1" = 1'-0"



18 TYPICAL EMBED PLATE
 SCALE: 1" = 1'-0"



19 GRADE BEAM TO EXISTING GRADE BEAM
 SCALE: 3/4\"/>



20 COLUMN AT EXISTING WALL
 SCALE: 1" = 1'-0"

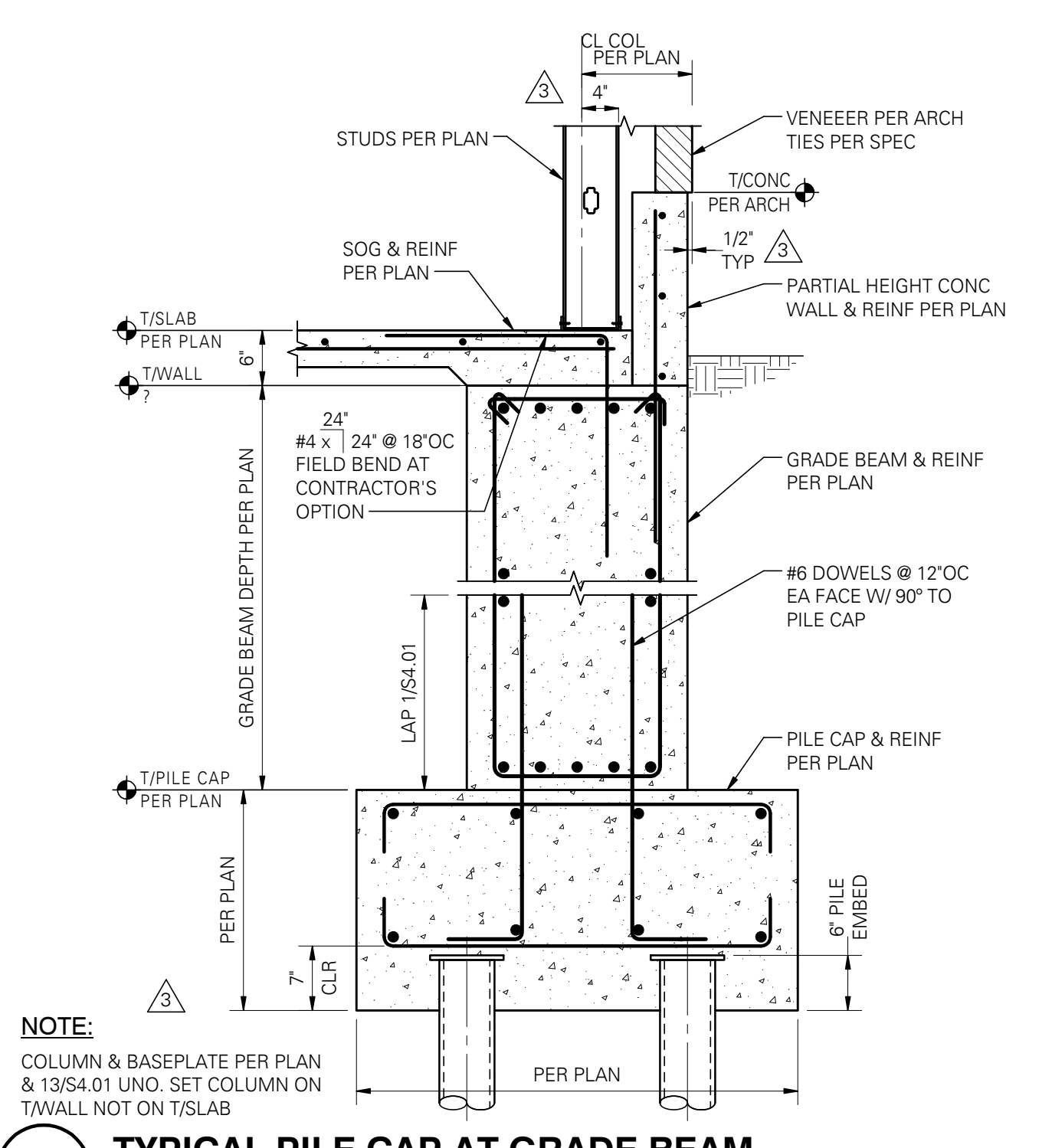


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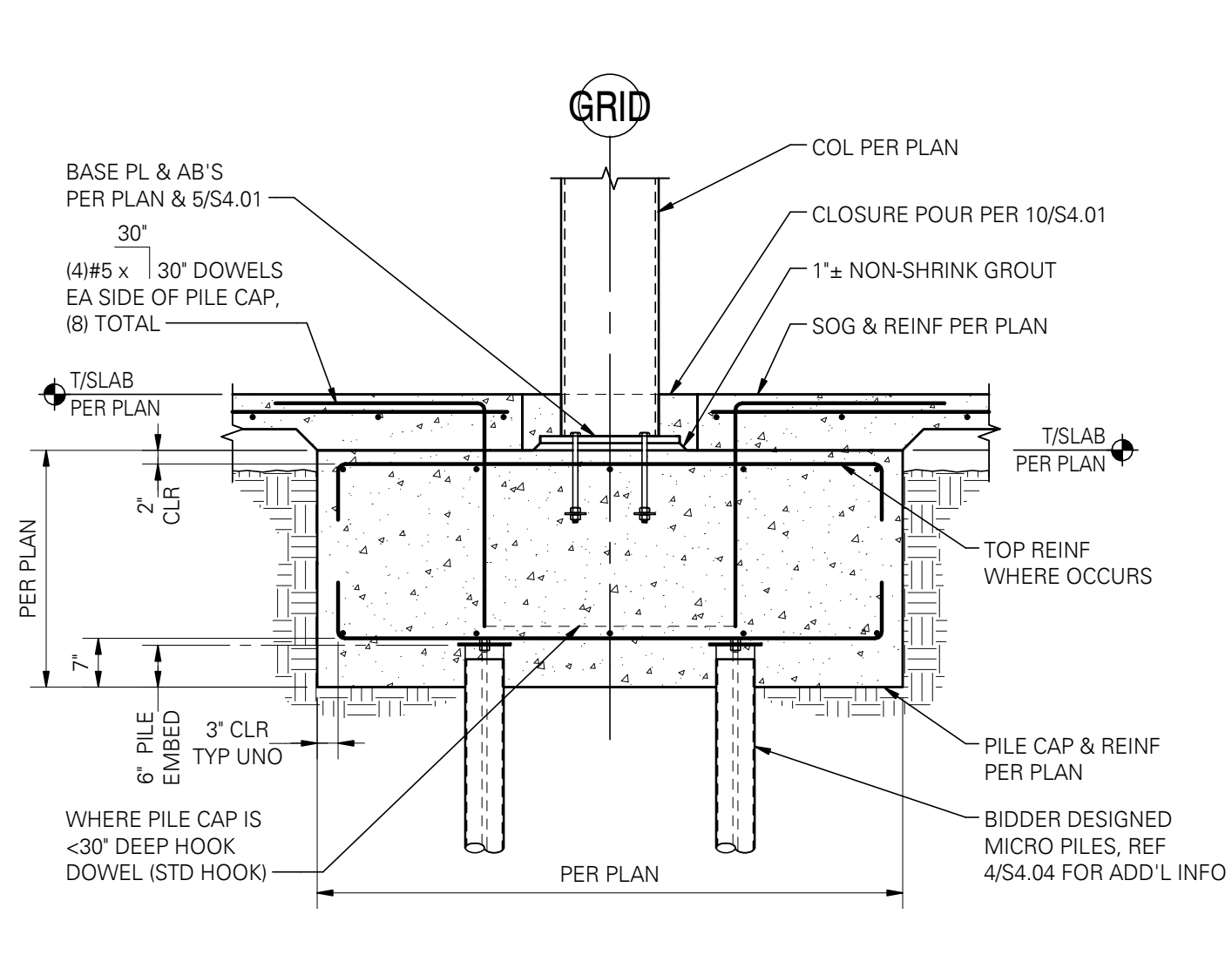


NO: 111-15017
 DRW: J.L.J.
 CHECKED: L.M.B.
 DATE: 02/19/16

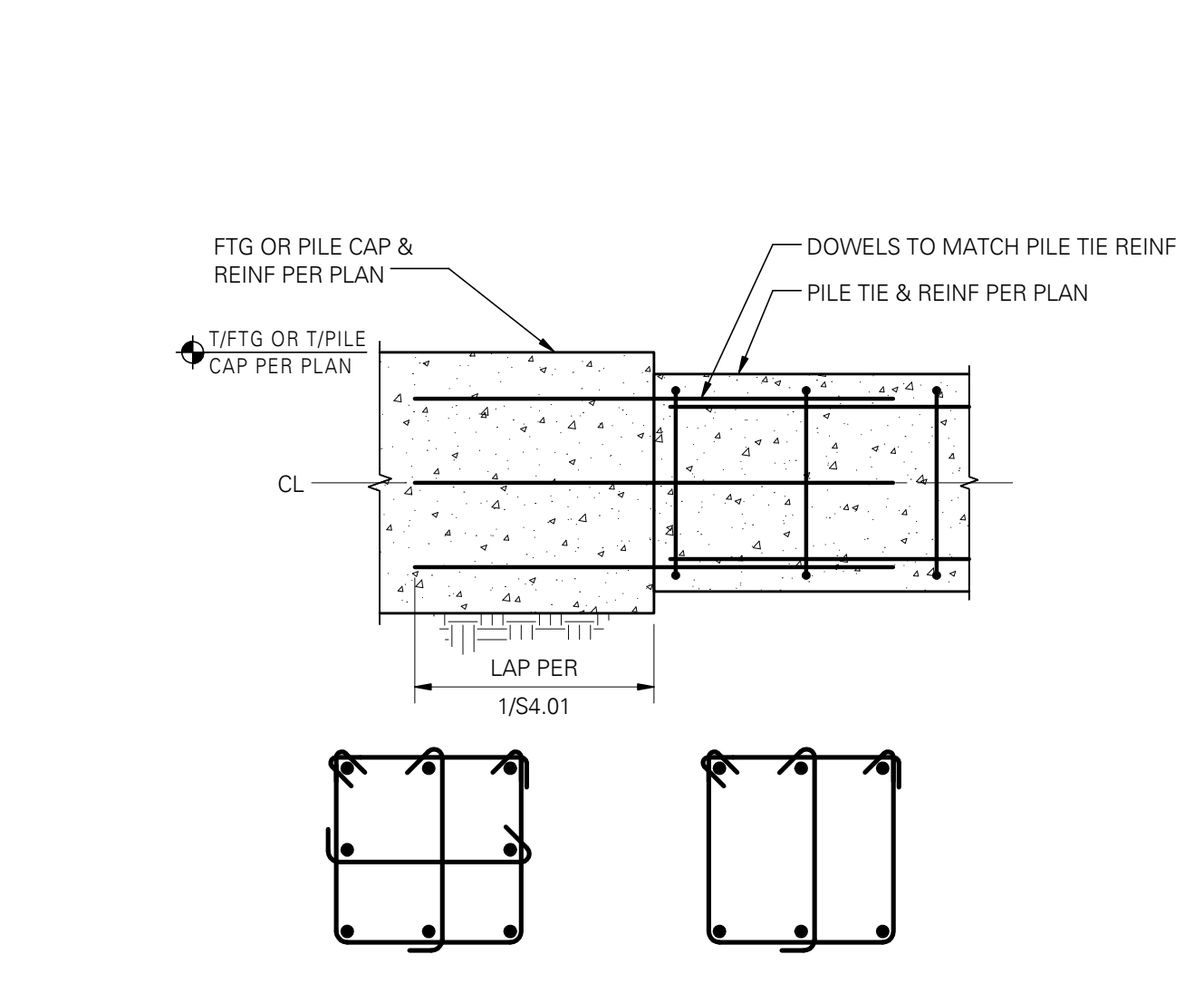
FOUNDATION DETAILS
CD S4.03



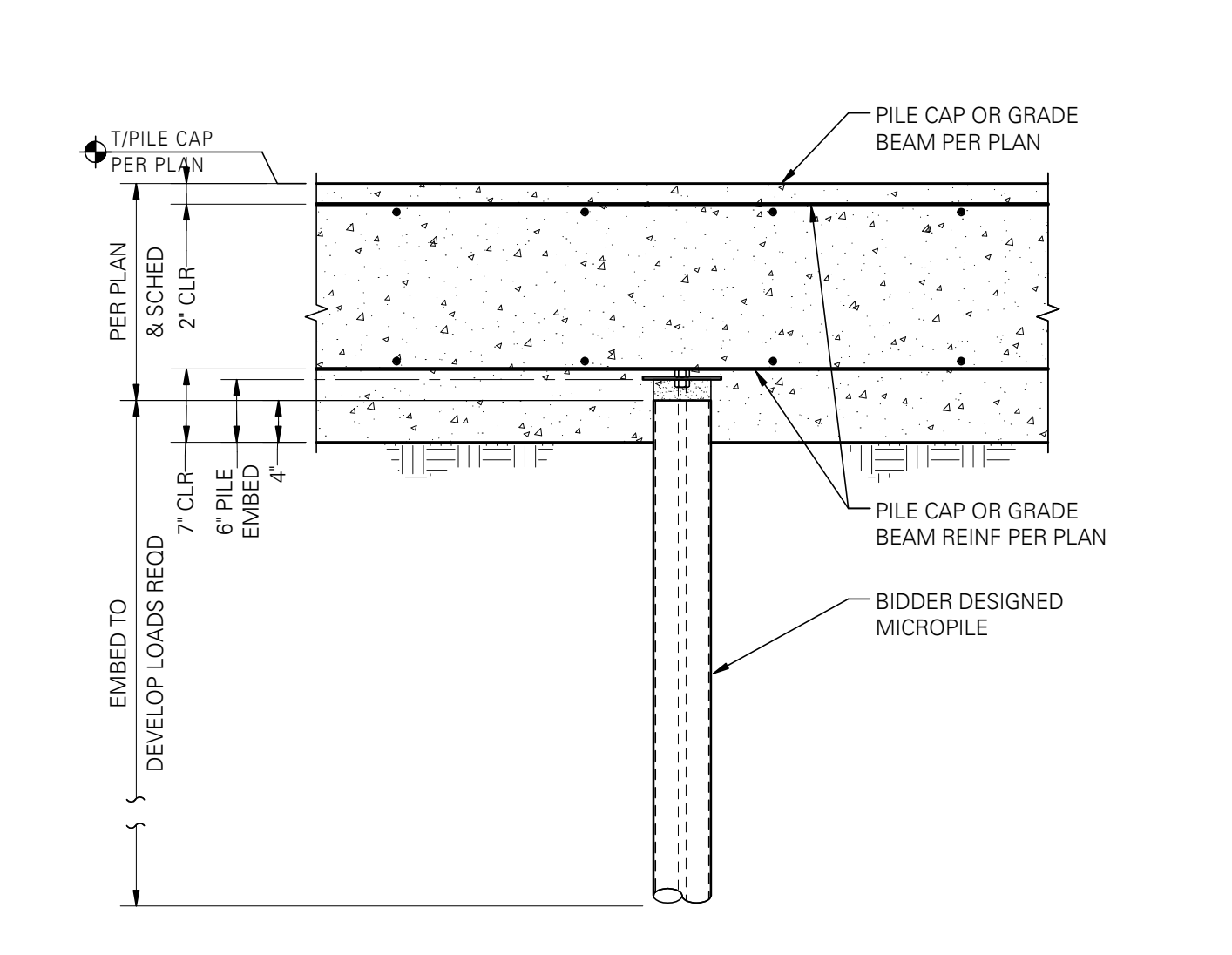
1 TYPICAL PILE CAP AT GRADE BEAM
SCALE: 3/4" = 1'-0"



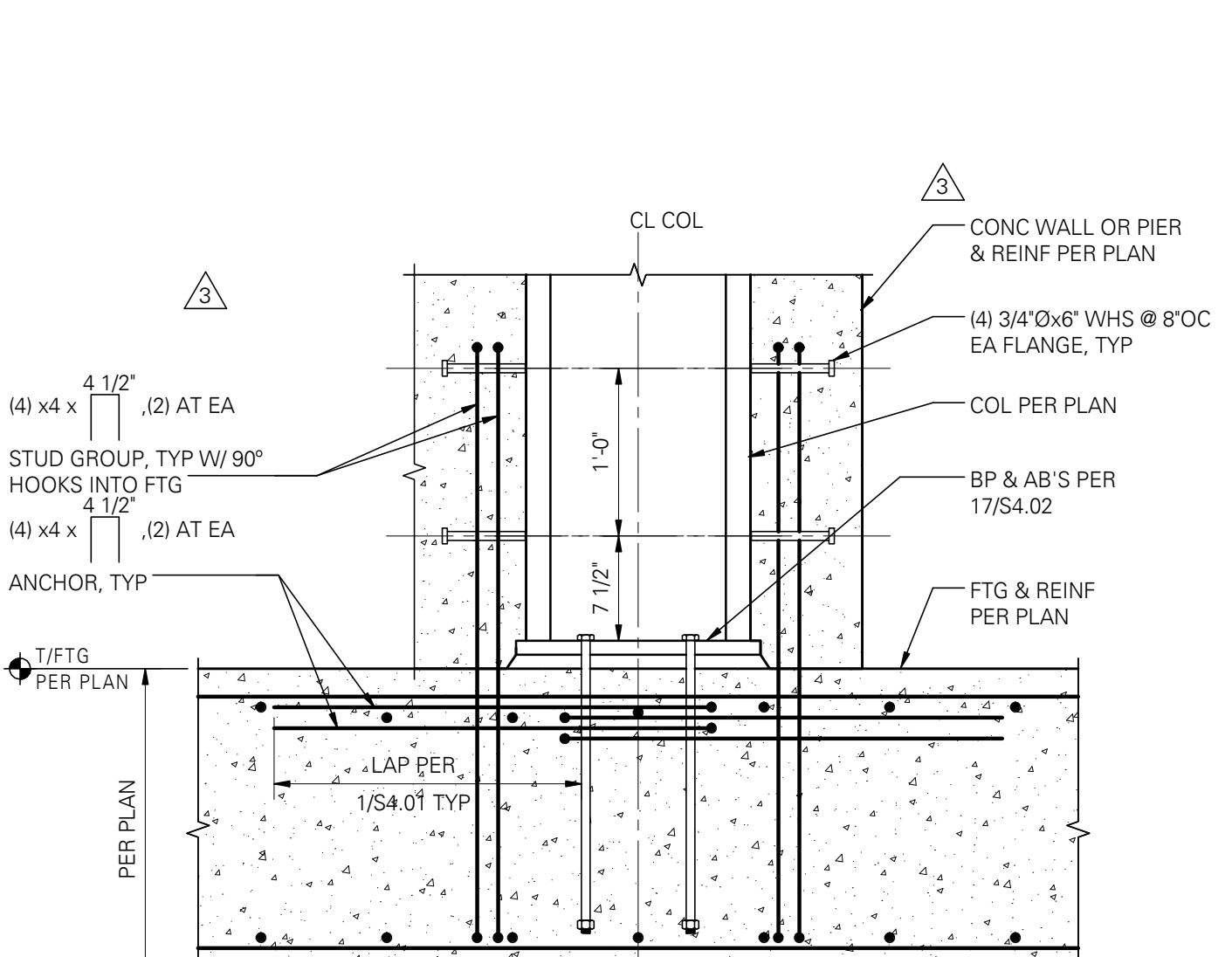
2 TYPICAL PILE CAP SECTION WITH STEEL COLUMN (MICROPILES)
SCALE: 1/2" = 1'-0"



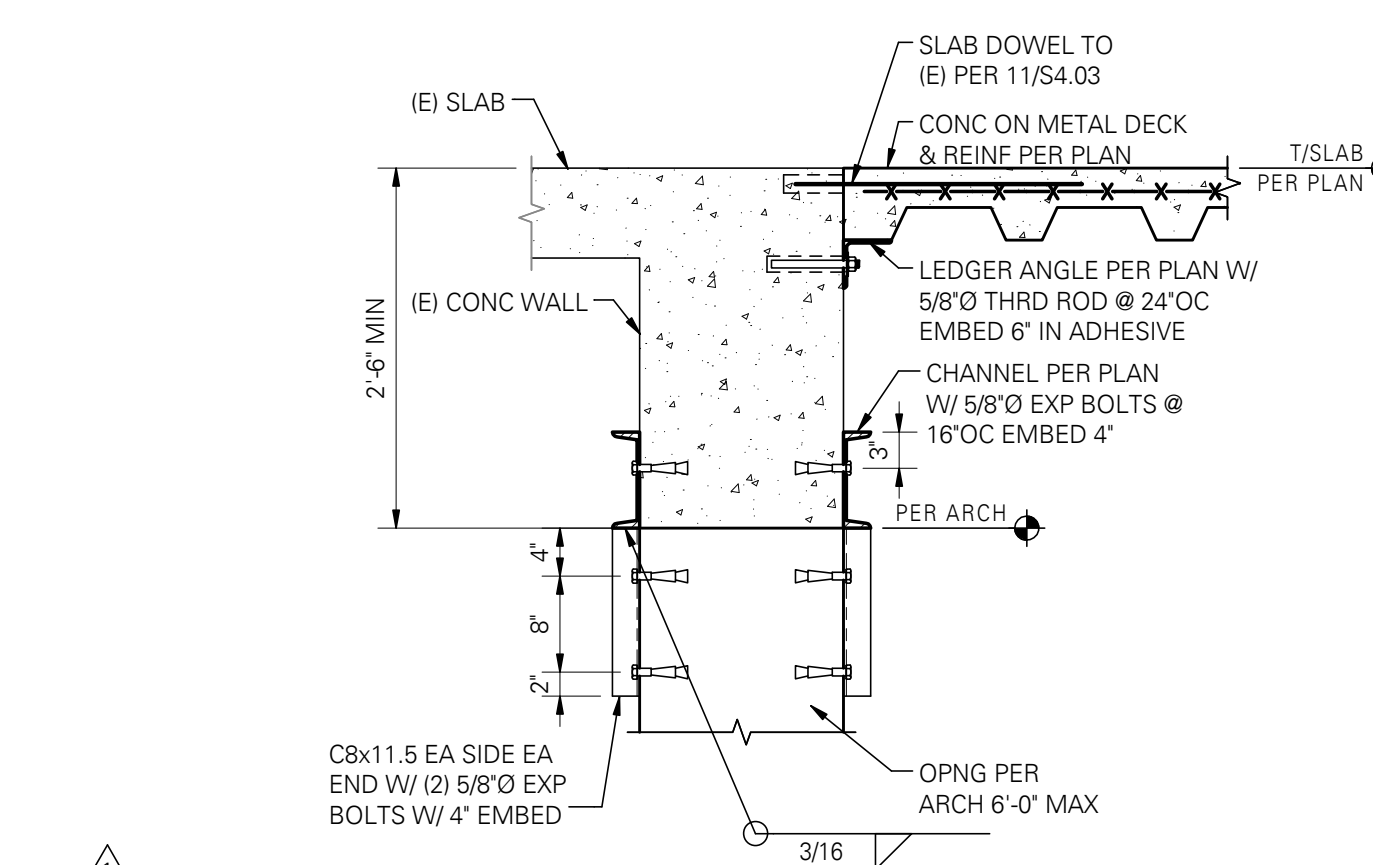
3 PILE TIE
SCALE: 3/4" = 1'-0"



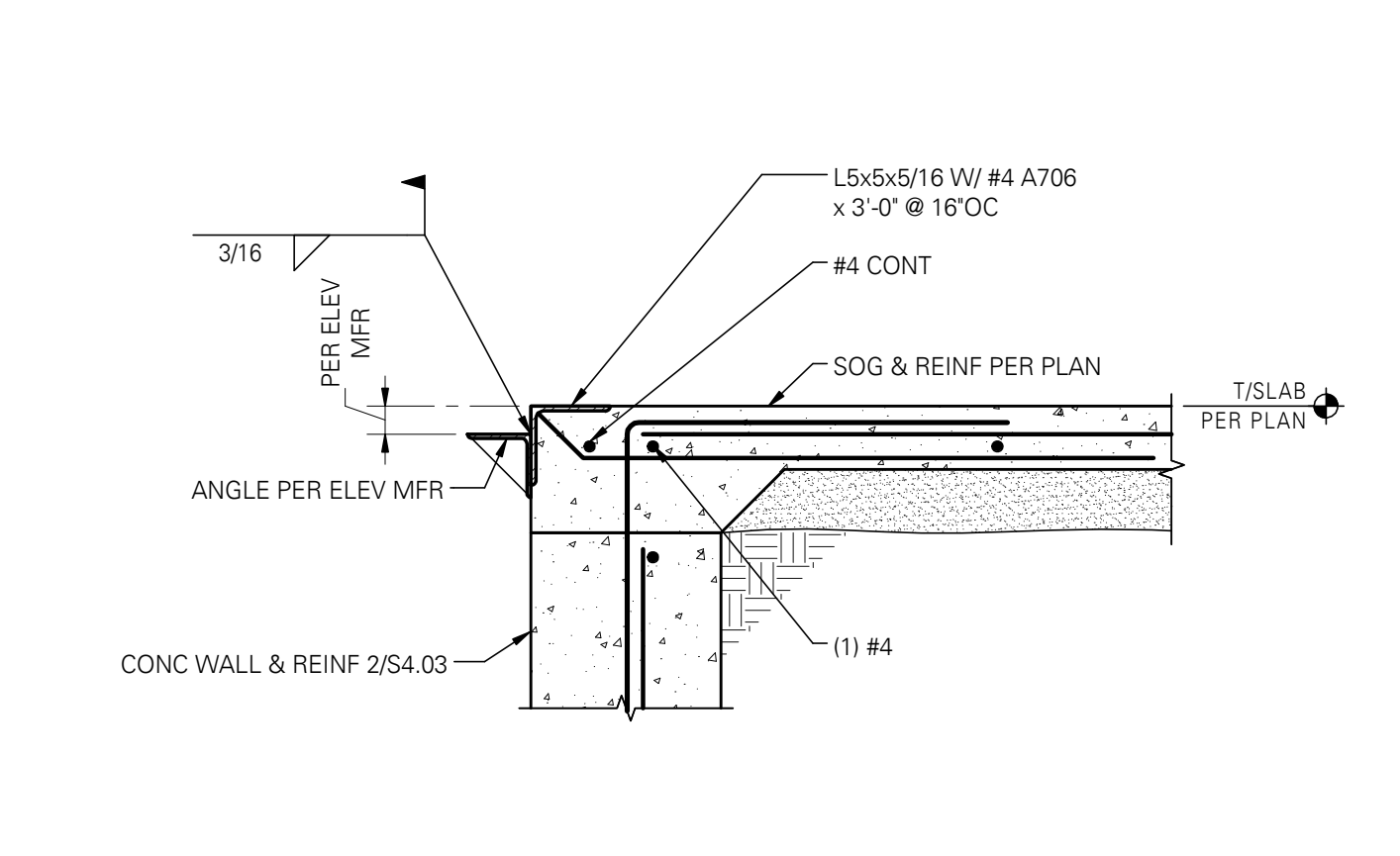
4 TYPICAL MICROPILE
SCALE: 3/4" = 1'-0"



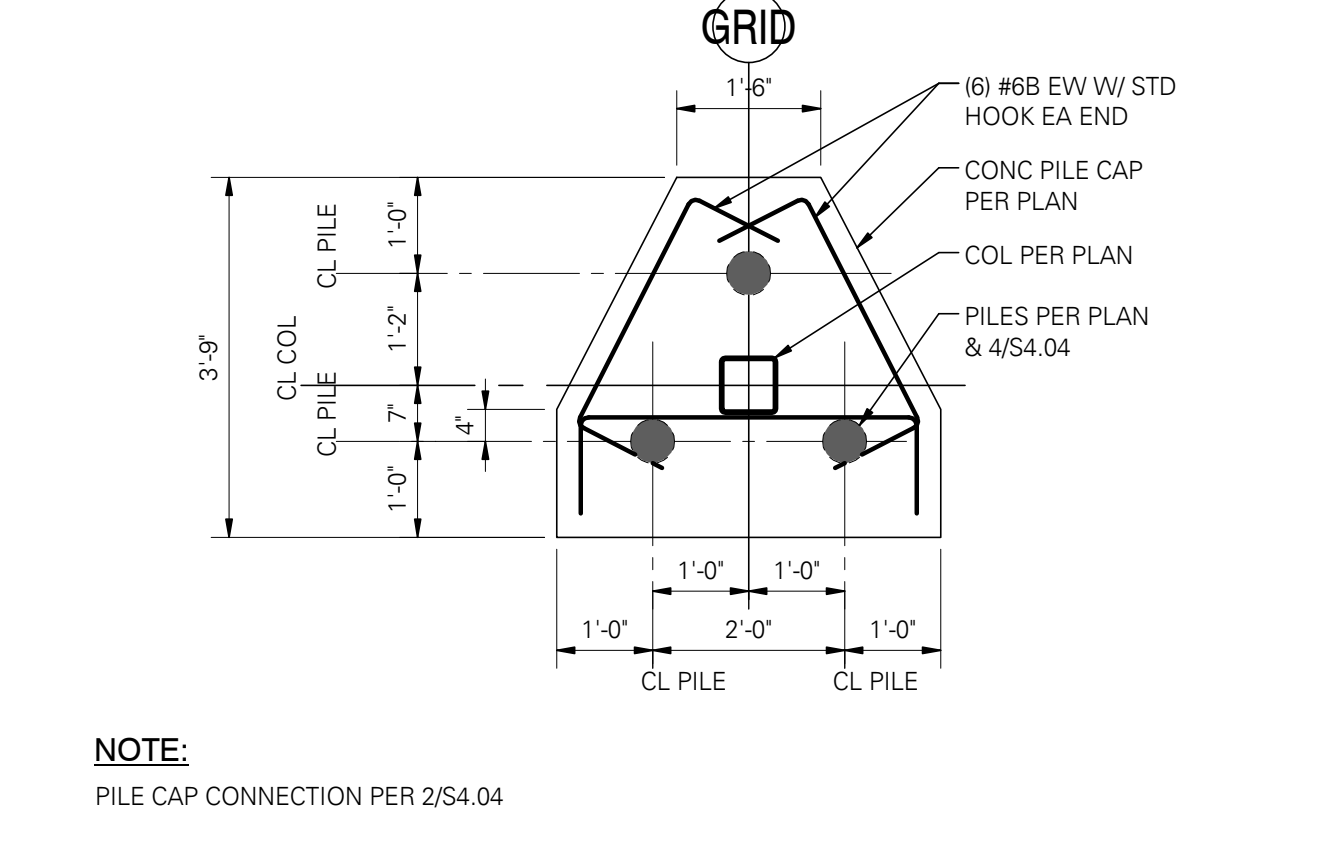
5 MOMENT FRAME COLUMN BASE
SCALE: 1" = 1'-0"



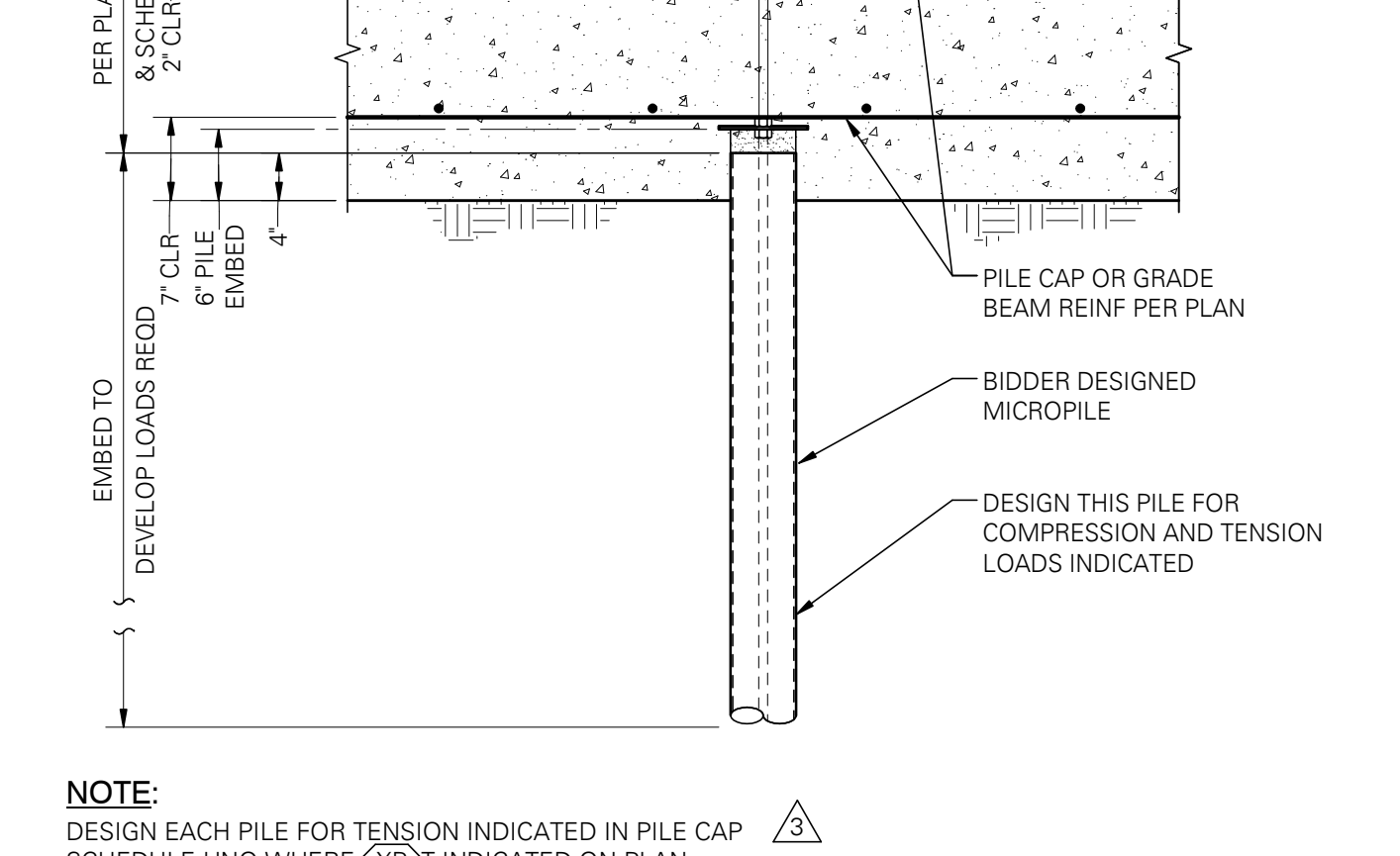
6 OPENING THRU EXISTING
SCALE: 3/4" = 1'-0"



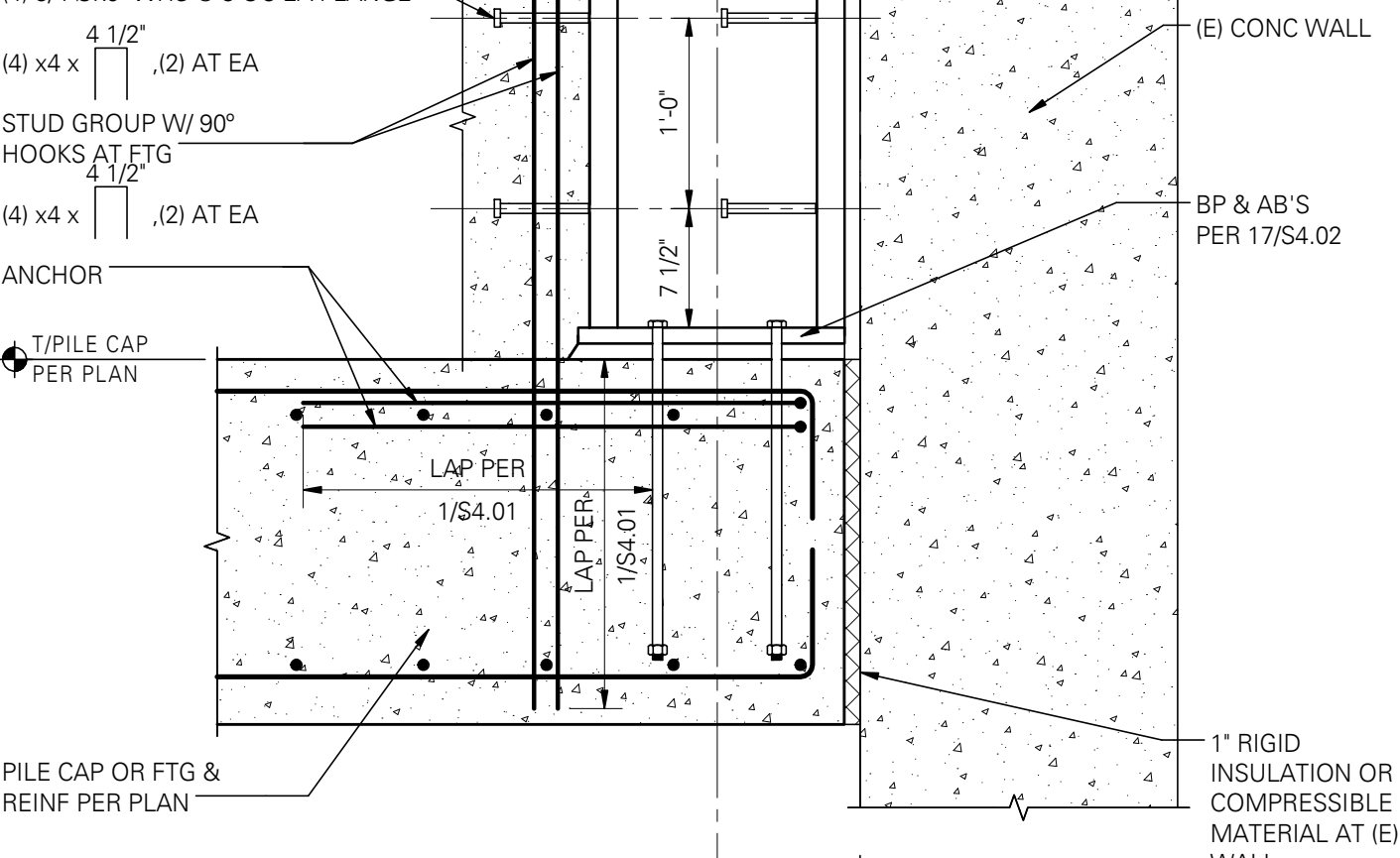
7 ELEVATOR ENTRANCE AT LOWER LEVEL FLOOR
SCALE: 1" = 1'-0"



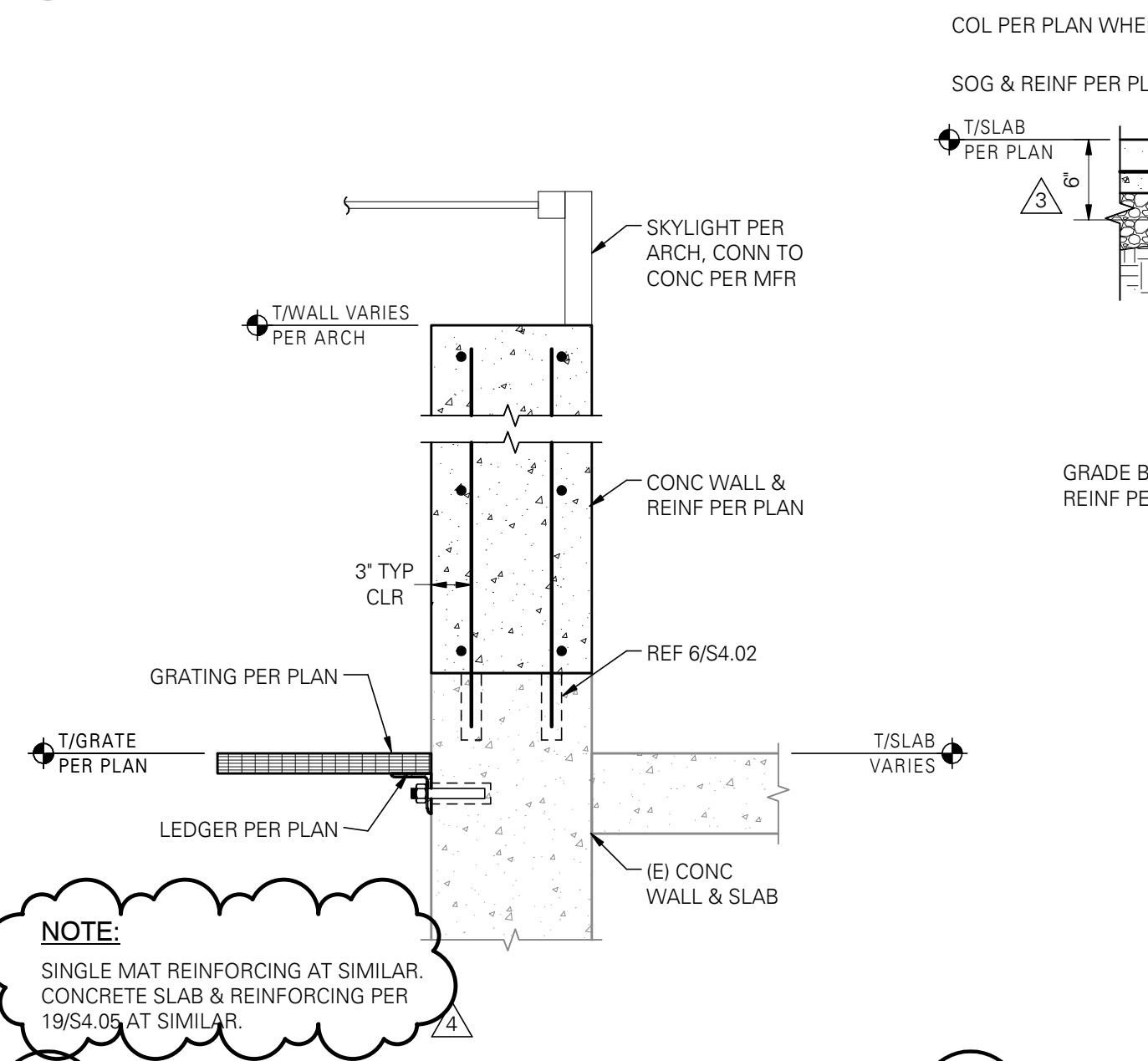
8 PILE CAP WITH (3) PILES AT STEEL COLUMN - TYPE 3P
SCALE: 1/2" = 1'-0"



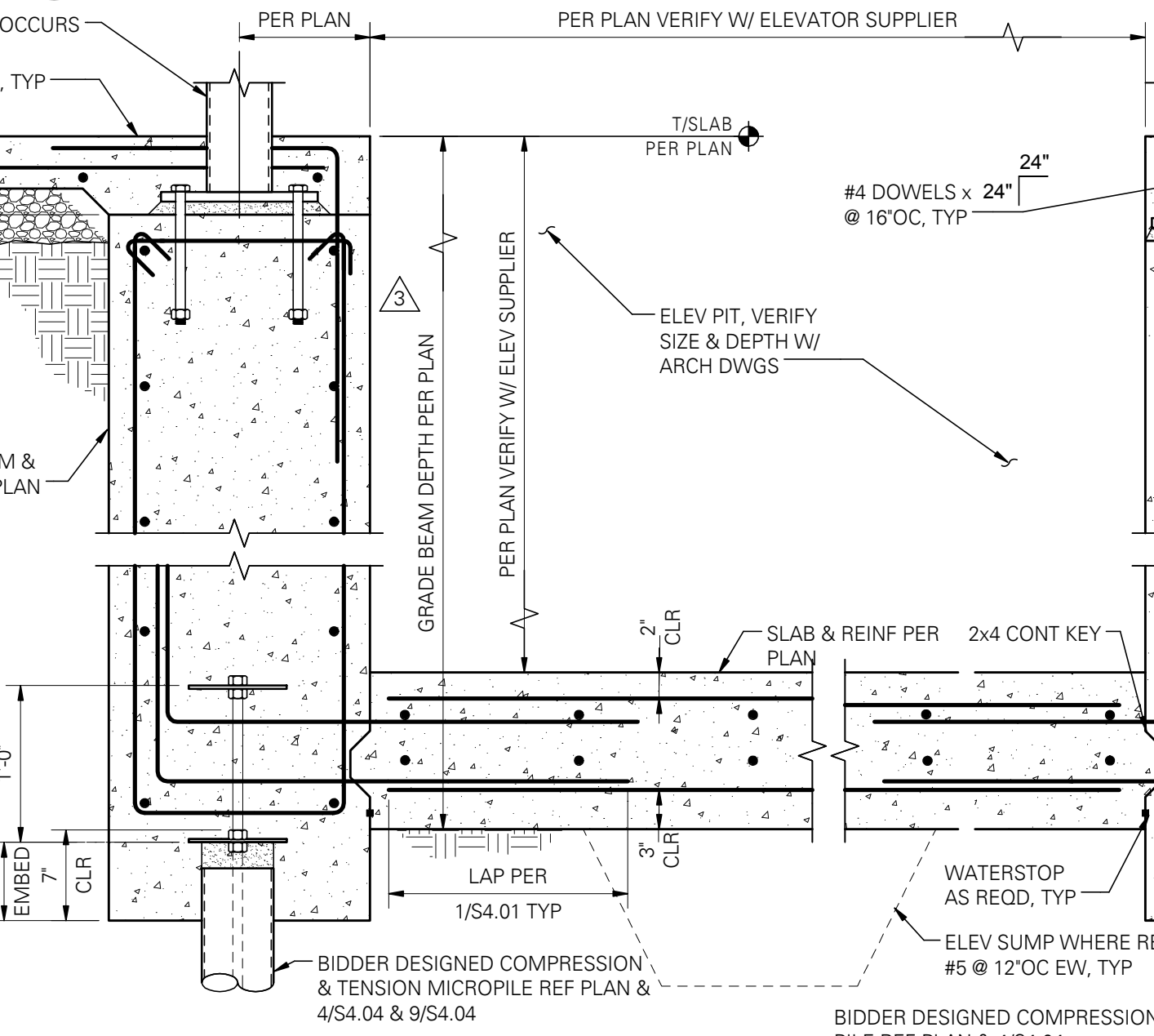
9 TENSION PILE IN PILE CAP
SCALE: 3/4" = 1'-0"



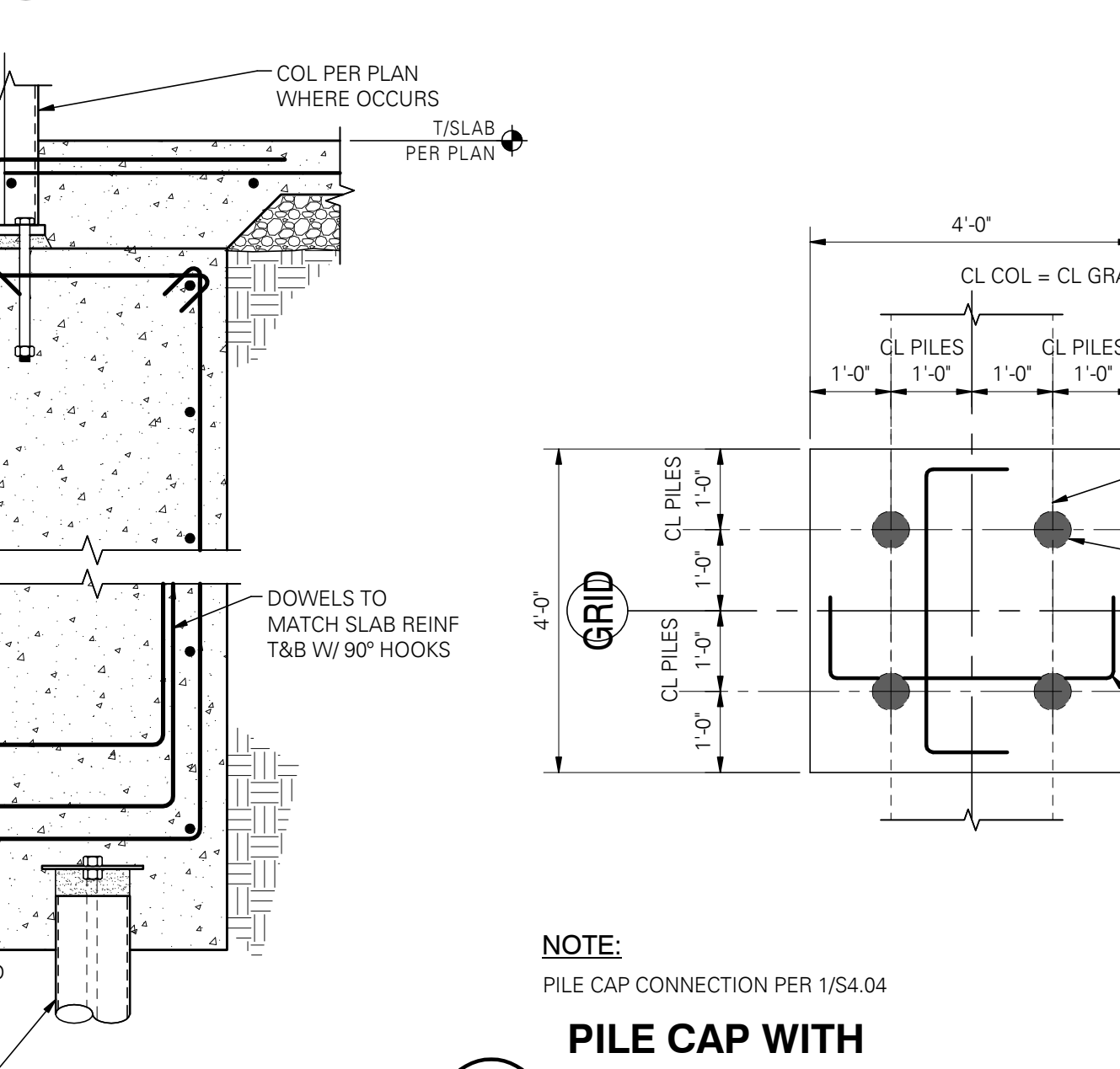
10 MOMENT FRAME COLUMN BASE AT EXISTING WALL
SCALE: 1" = 1'-0"



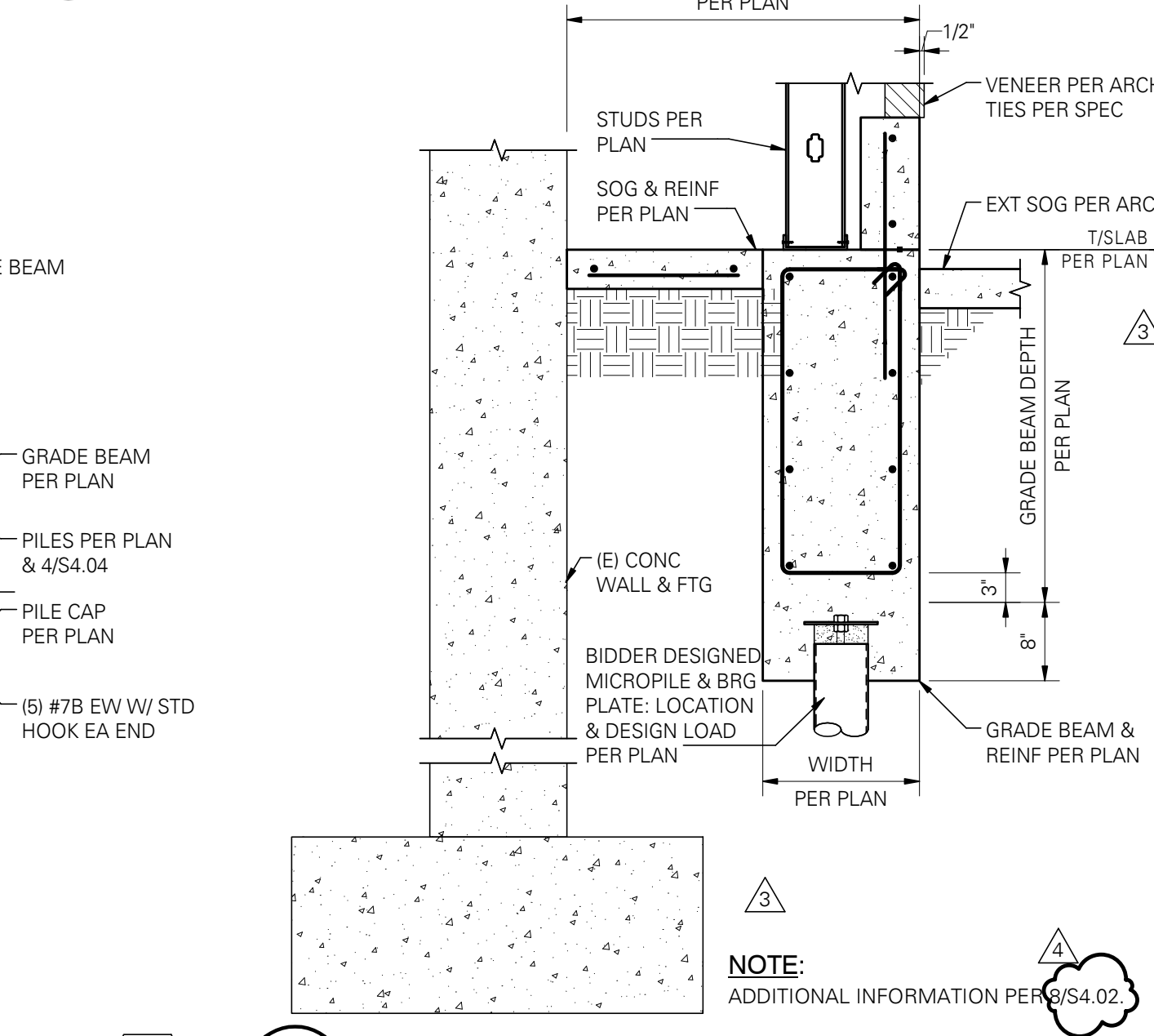
11 CONCRETE WALL AT SKYLIGHT
SCALE: 1" = 1'-0"



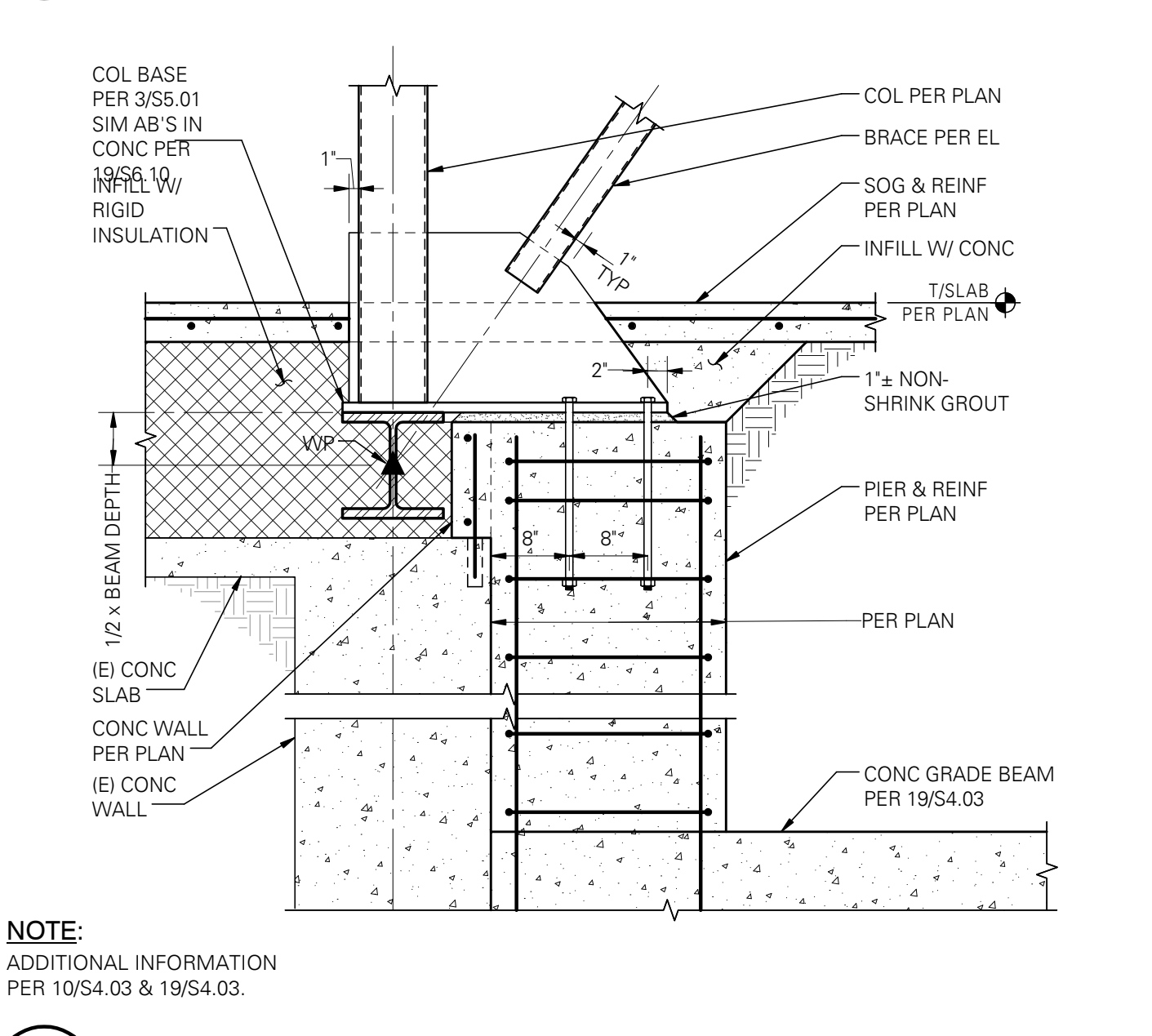
12 ELEVATOR PIT SECTION
SCALE: 1" = 1'-0"



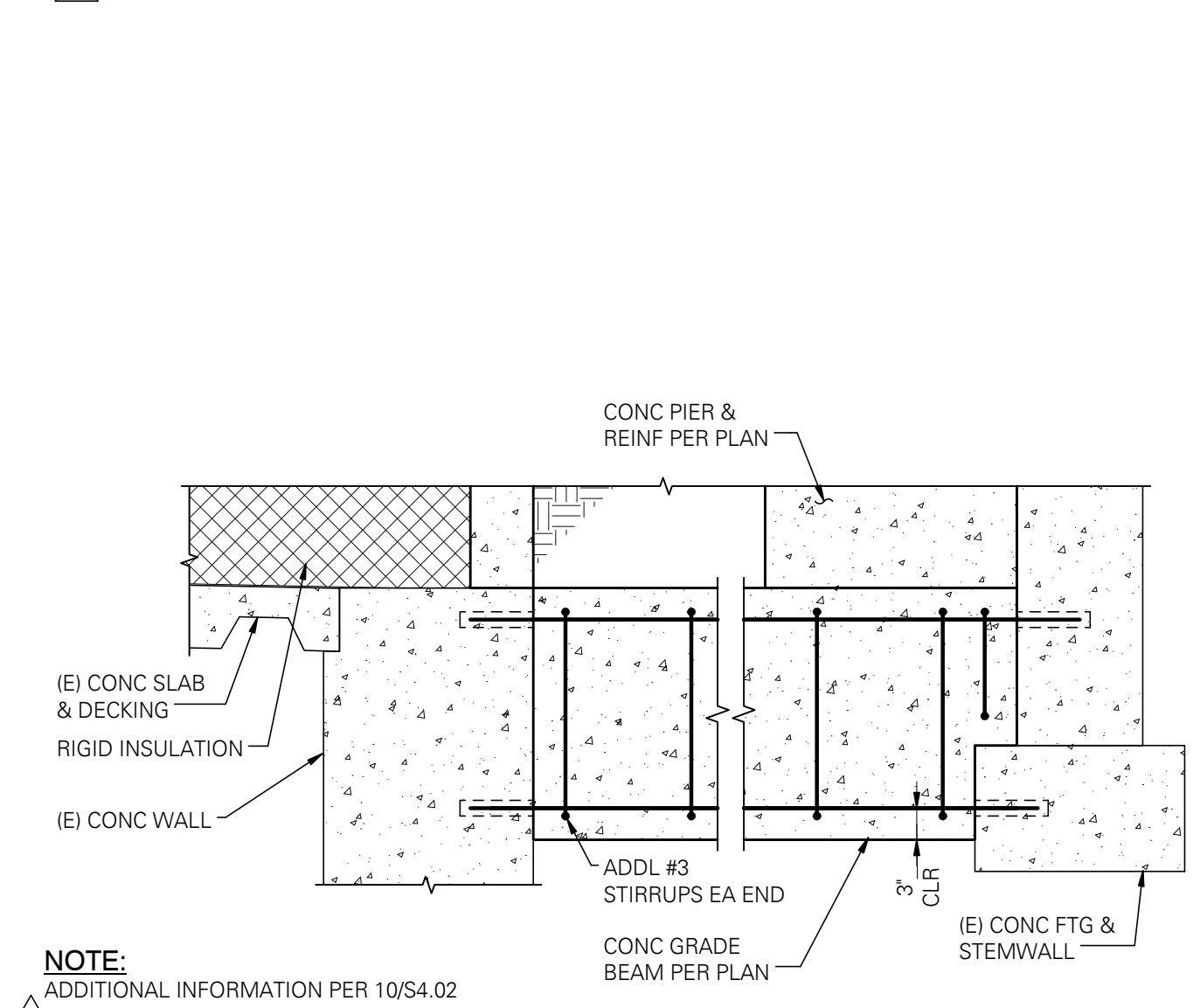
13 PILE CAP WITH (4) PILES AT STEEL COLUMN - TYPE 4P
SCALE: 1/2" = 1'-0"



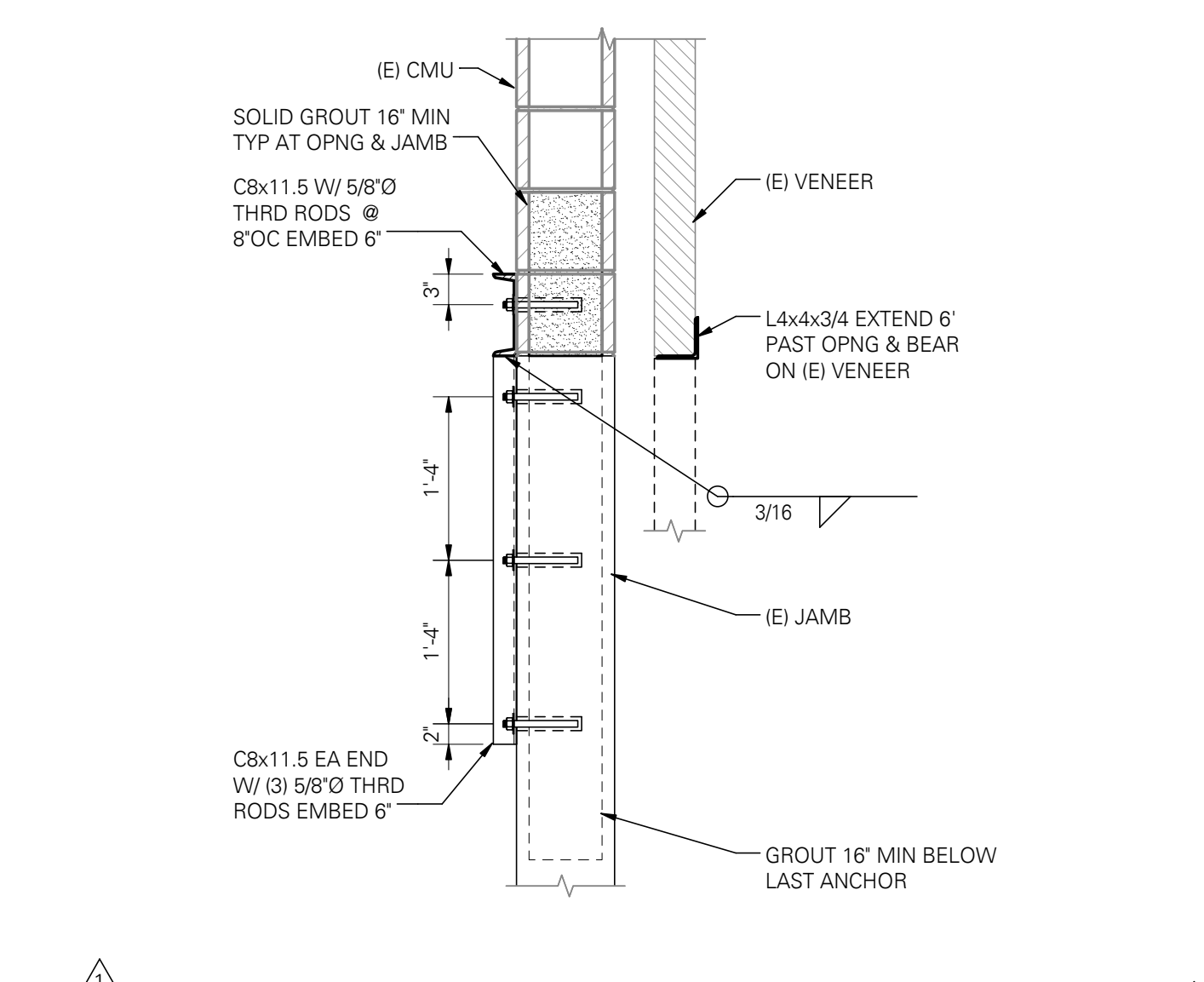
14 FOUNDATION NEAR EXISTING
SCALE: 3/4" = 1'-0"



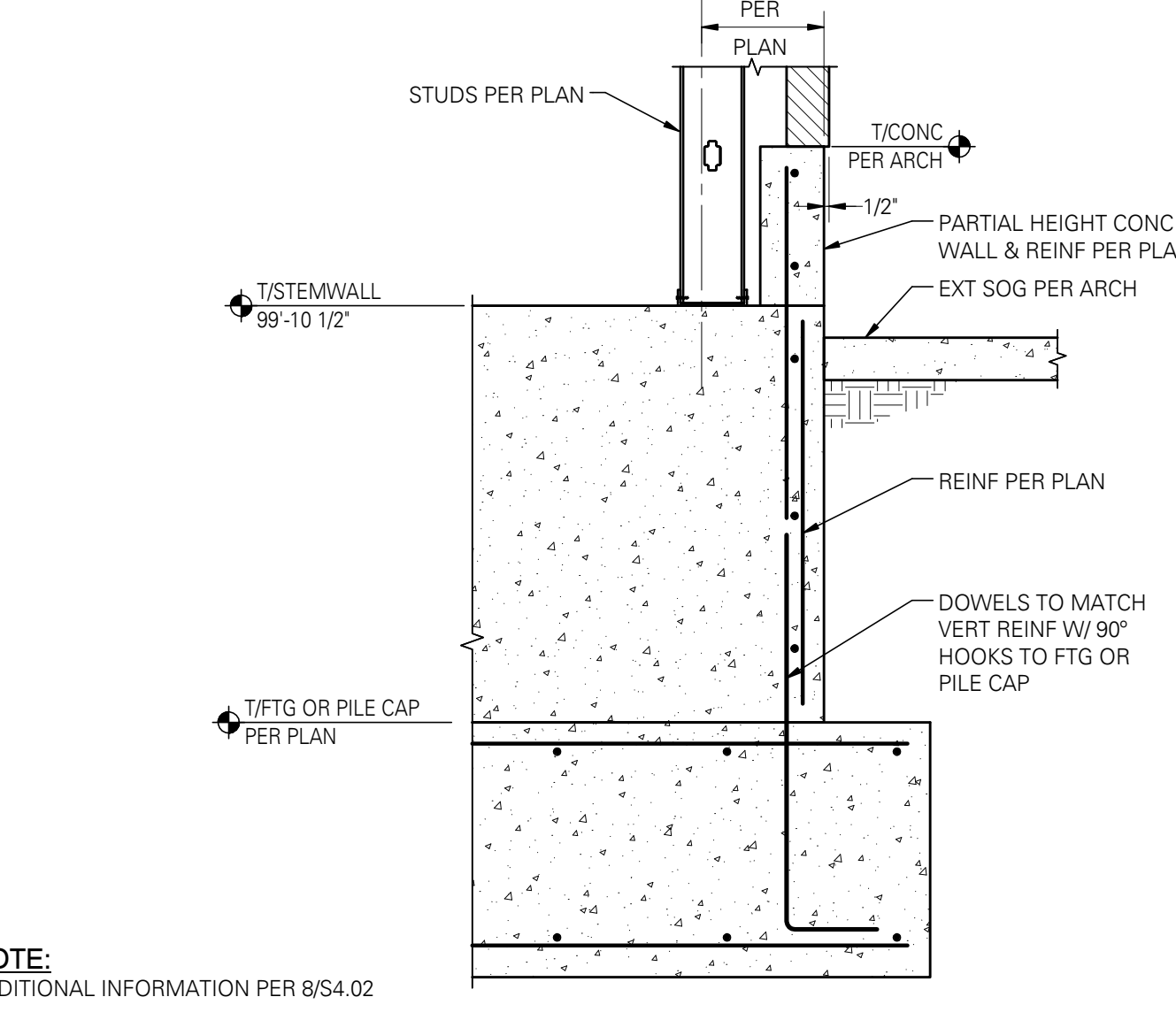
15 BRACED FRAME AT EXISTING WALL
SCALE: 3/4" = 1'-0"



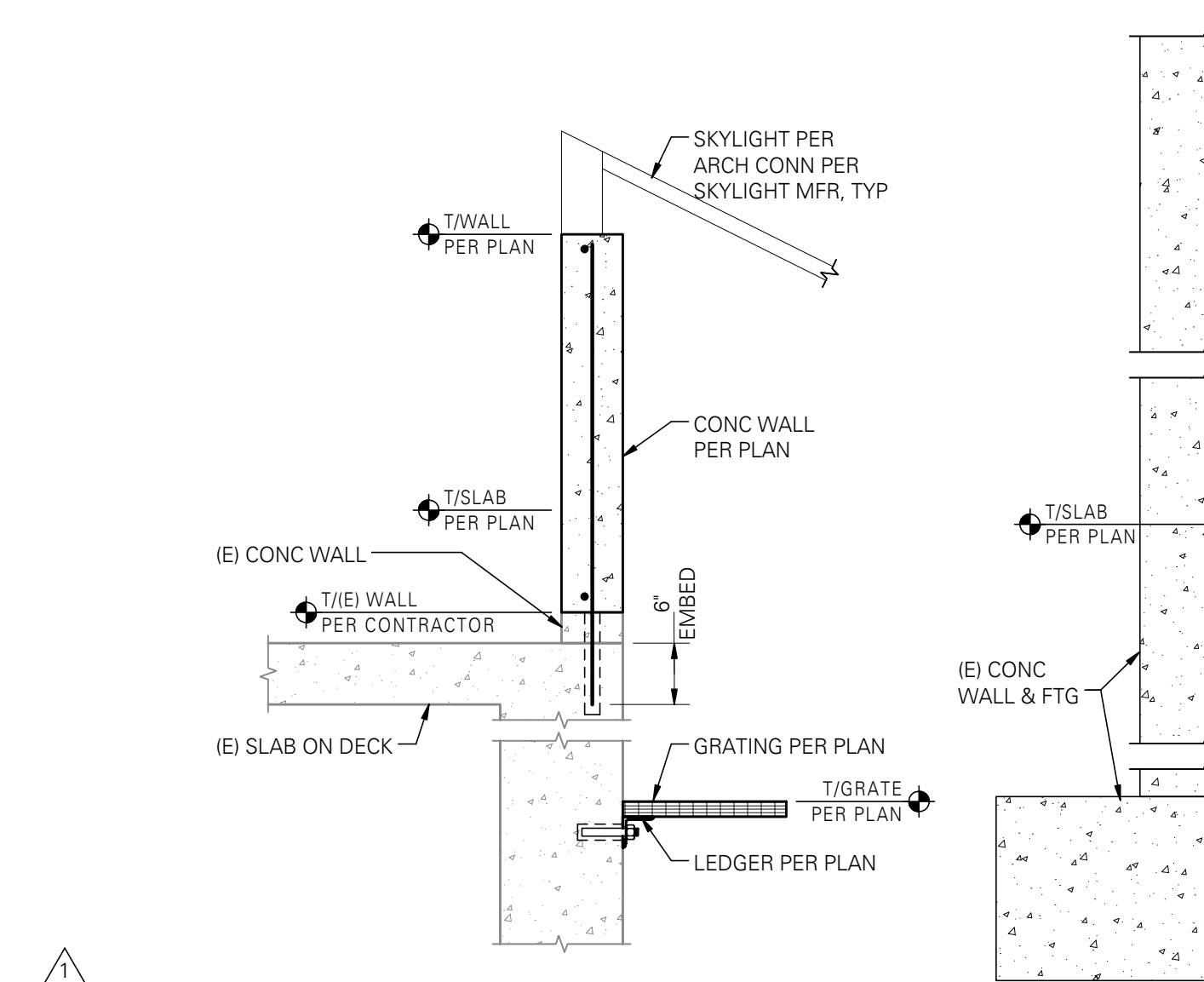
16 GRADE BEAM AT CORNER COLUMN
SCALE: 3/4" = 1'-0"



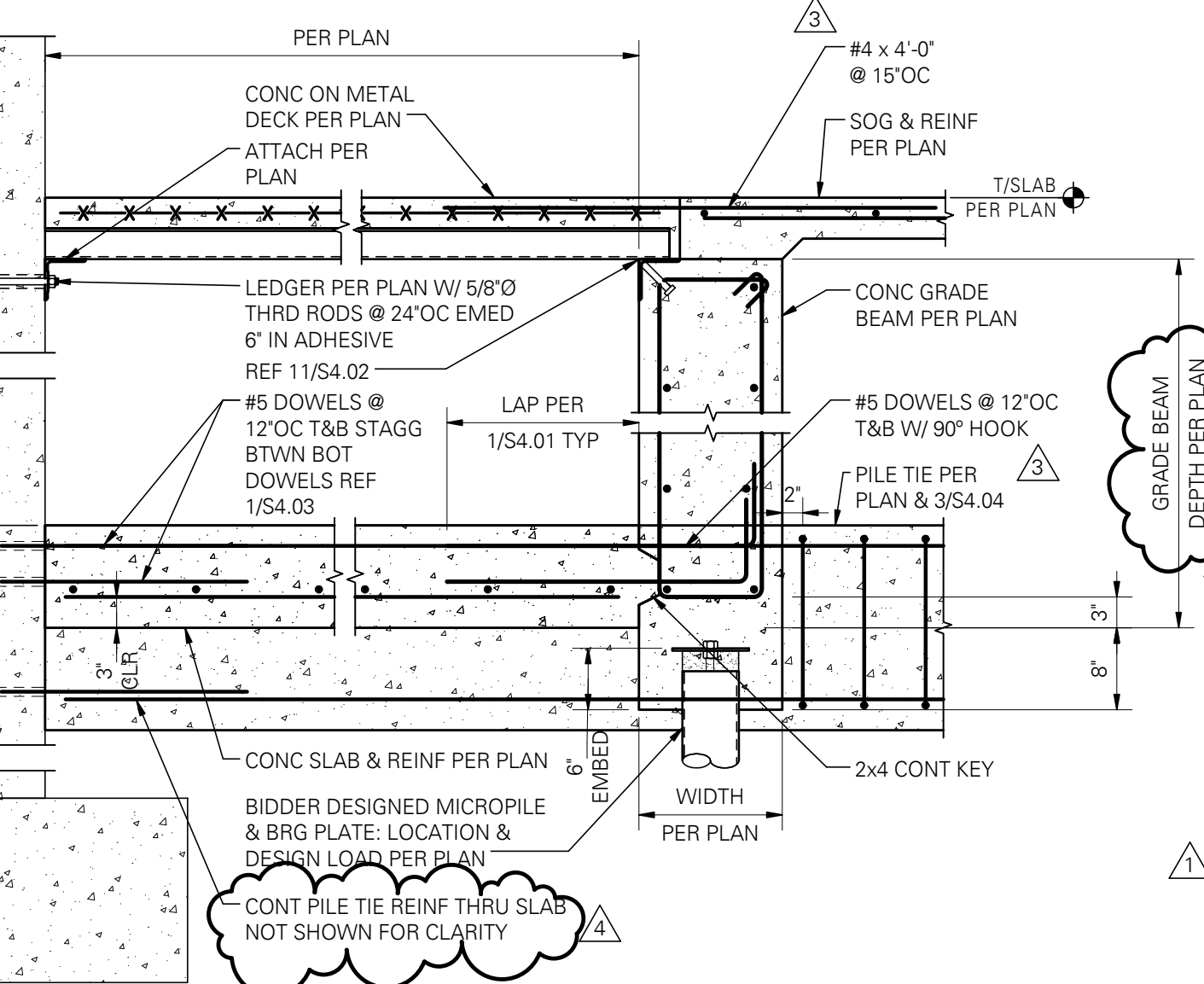
17 OPENING IN EXISTING CMU WALL
SCALE: 3/4" = 1'-0"



18 GRADE BEAM
SCALE: 3/4" = 1'-0"



19 CONCRETE WALL AT TOP OF SKYLIGHT
SCALE: 3/4" = 1'-0"



20 SECTION AT TUNNEL
SCALE: 3/4" = 1'-0"



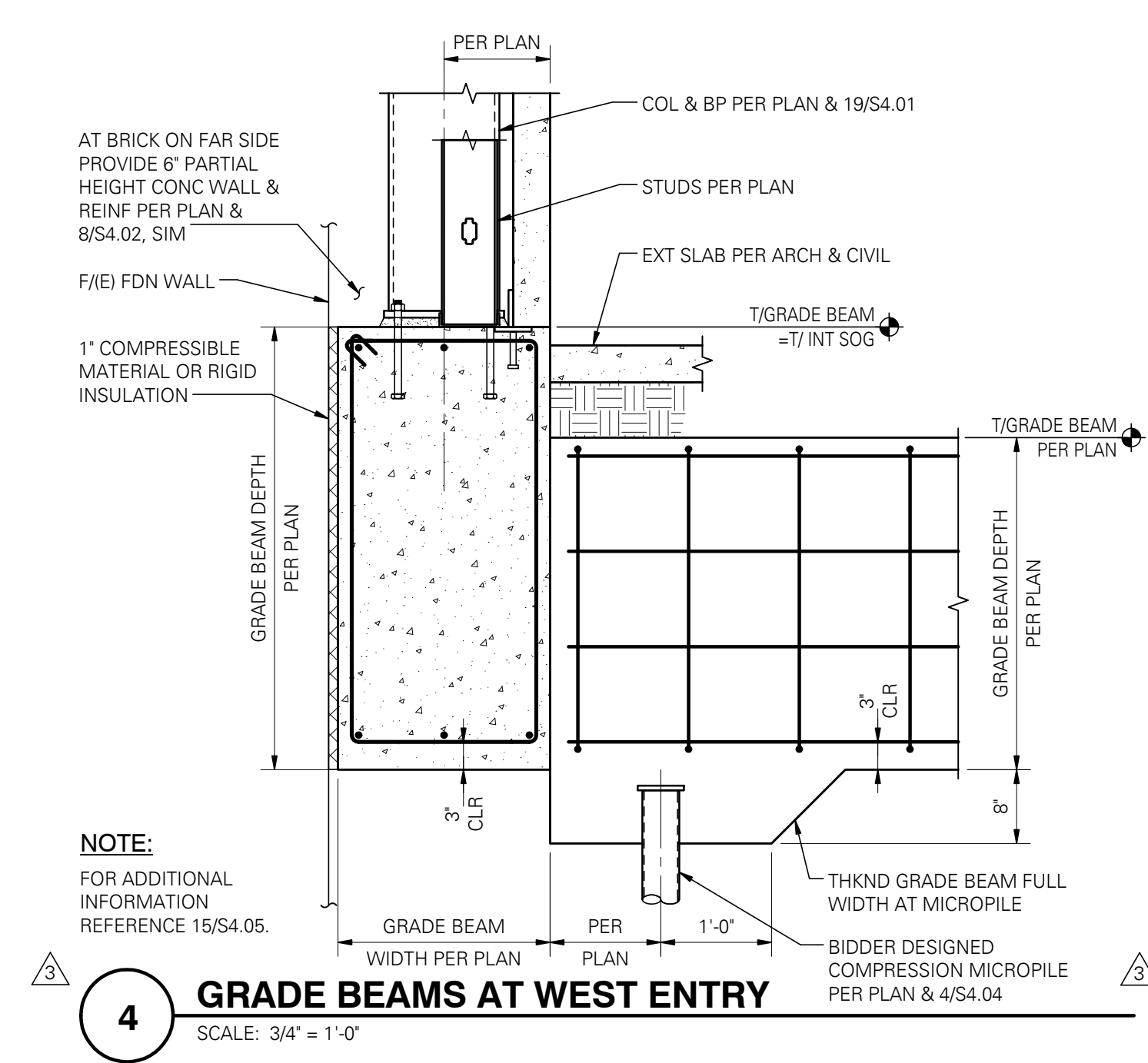
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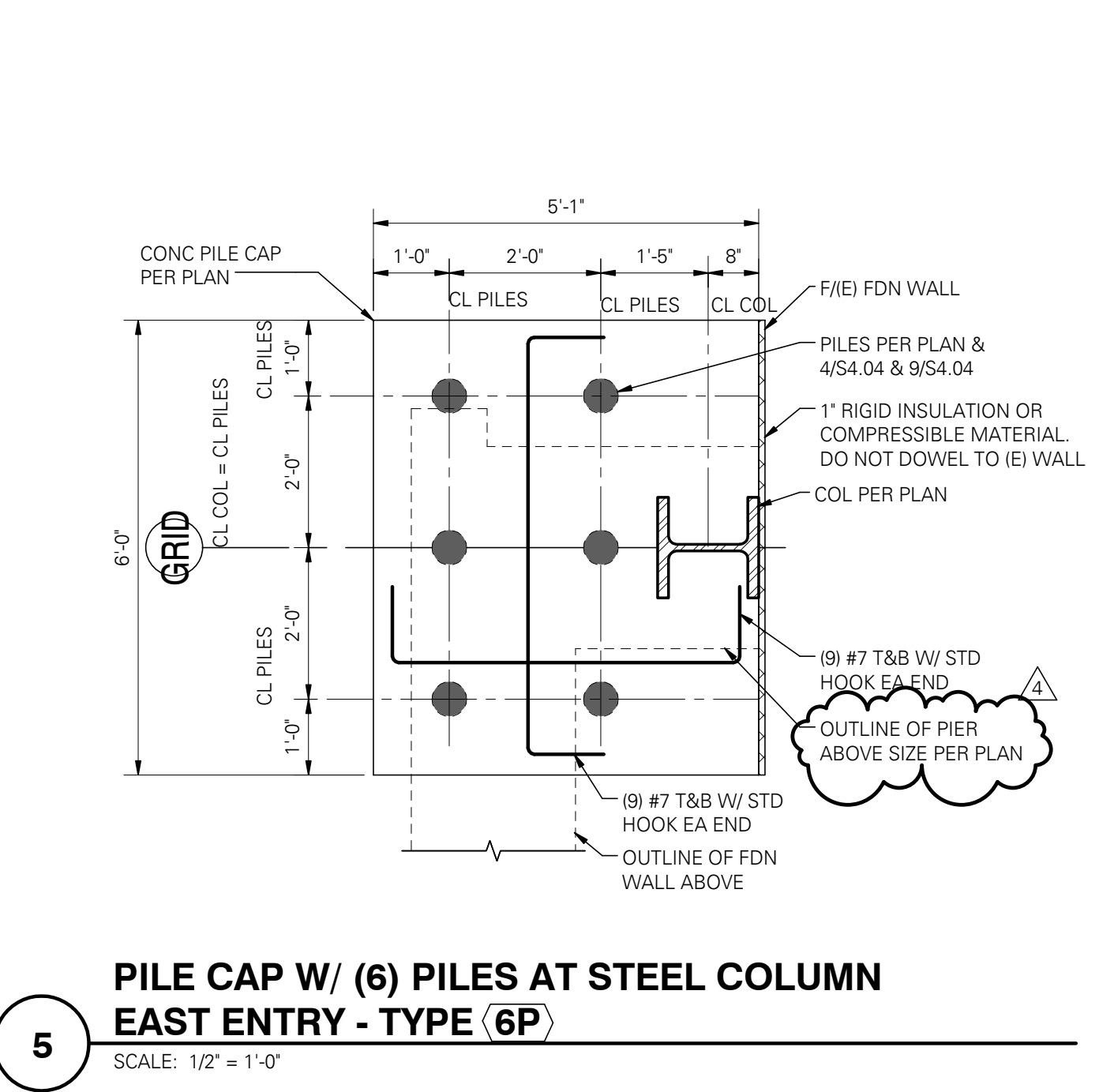
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CHECKED: Checker
DATE: 02/19/16

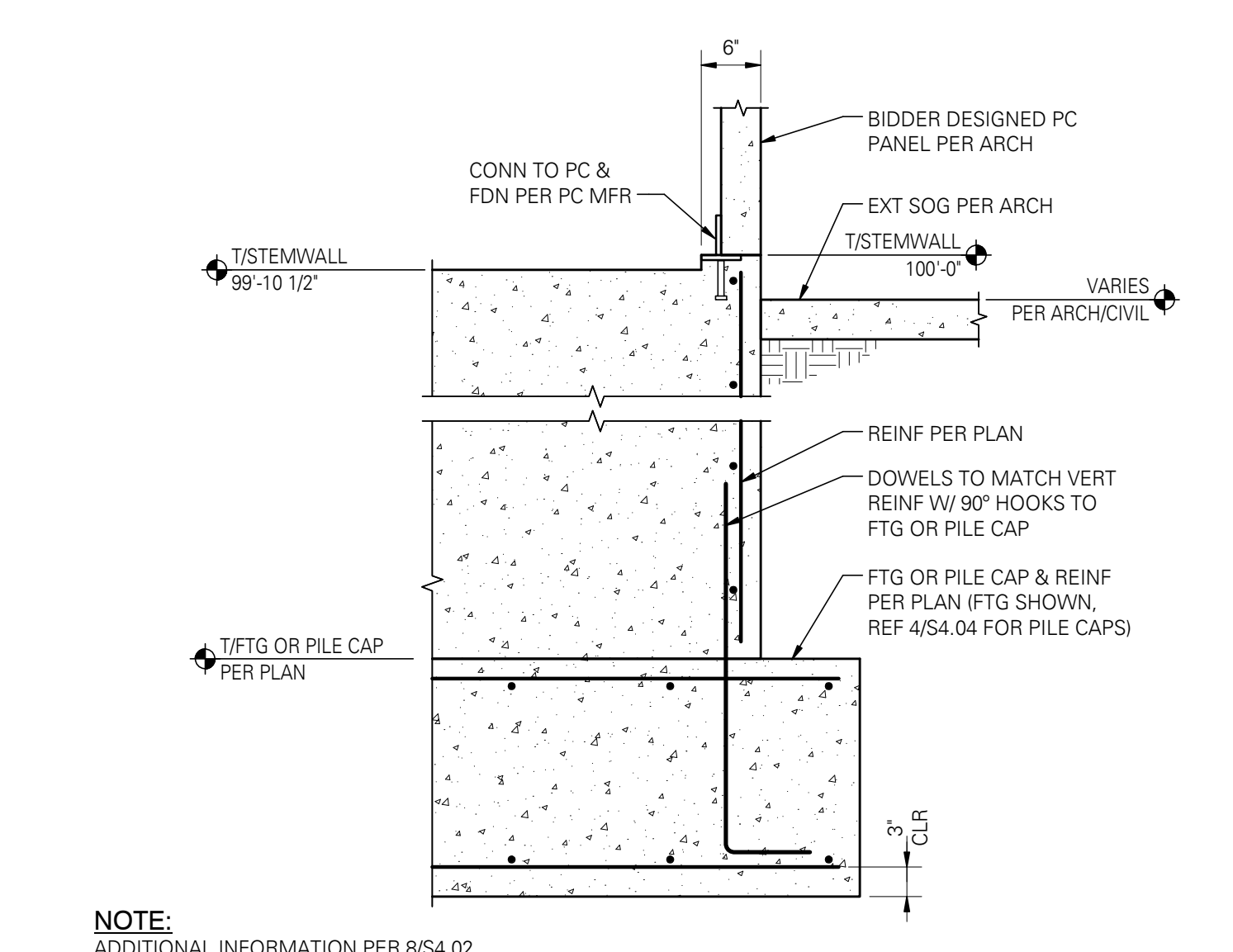
FOUNDATION DETAILS
CD
S4.04



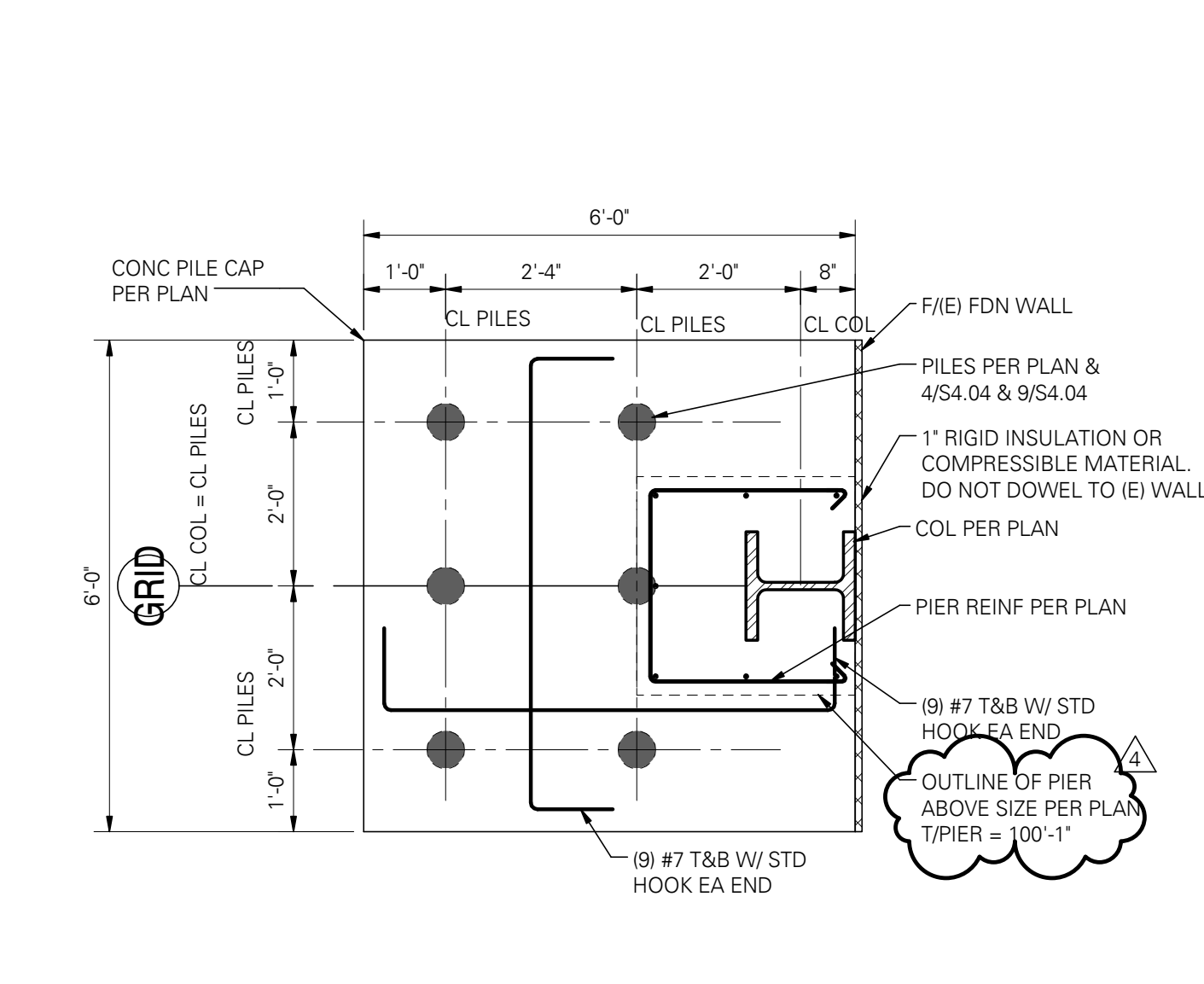
4 GRADE BEAMS AT WEST ENTRY
SCALE: 3/4" = 1'-0"



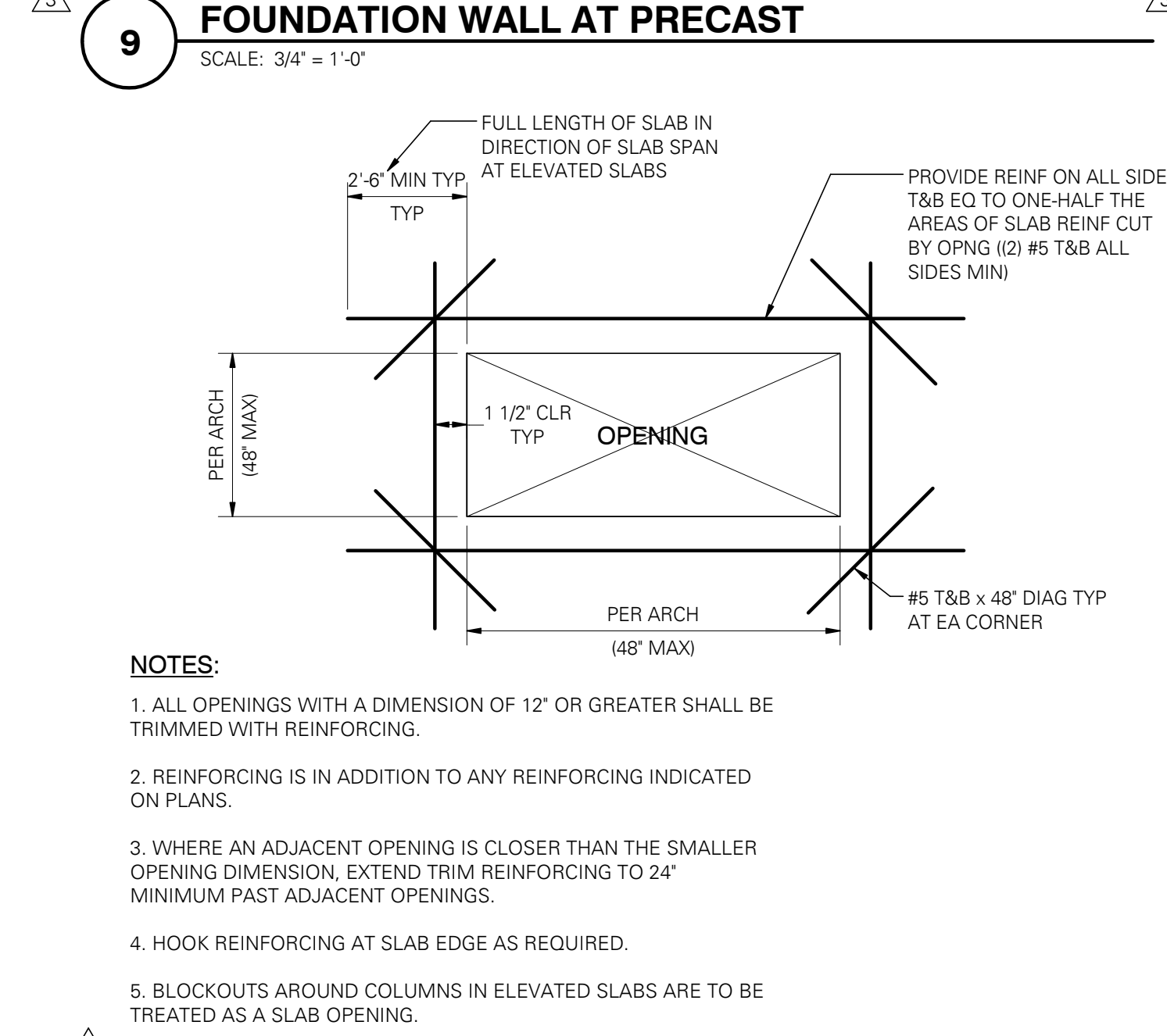
5 PILE CAP W/ (6) PILES AT STEEL COLUMN EAST ENTRY - TYPE (6P)
SCALE: 1/2" = 1'-0"



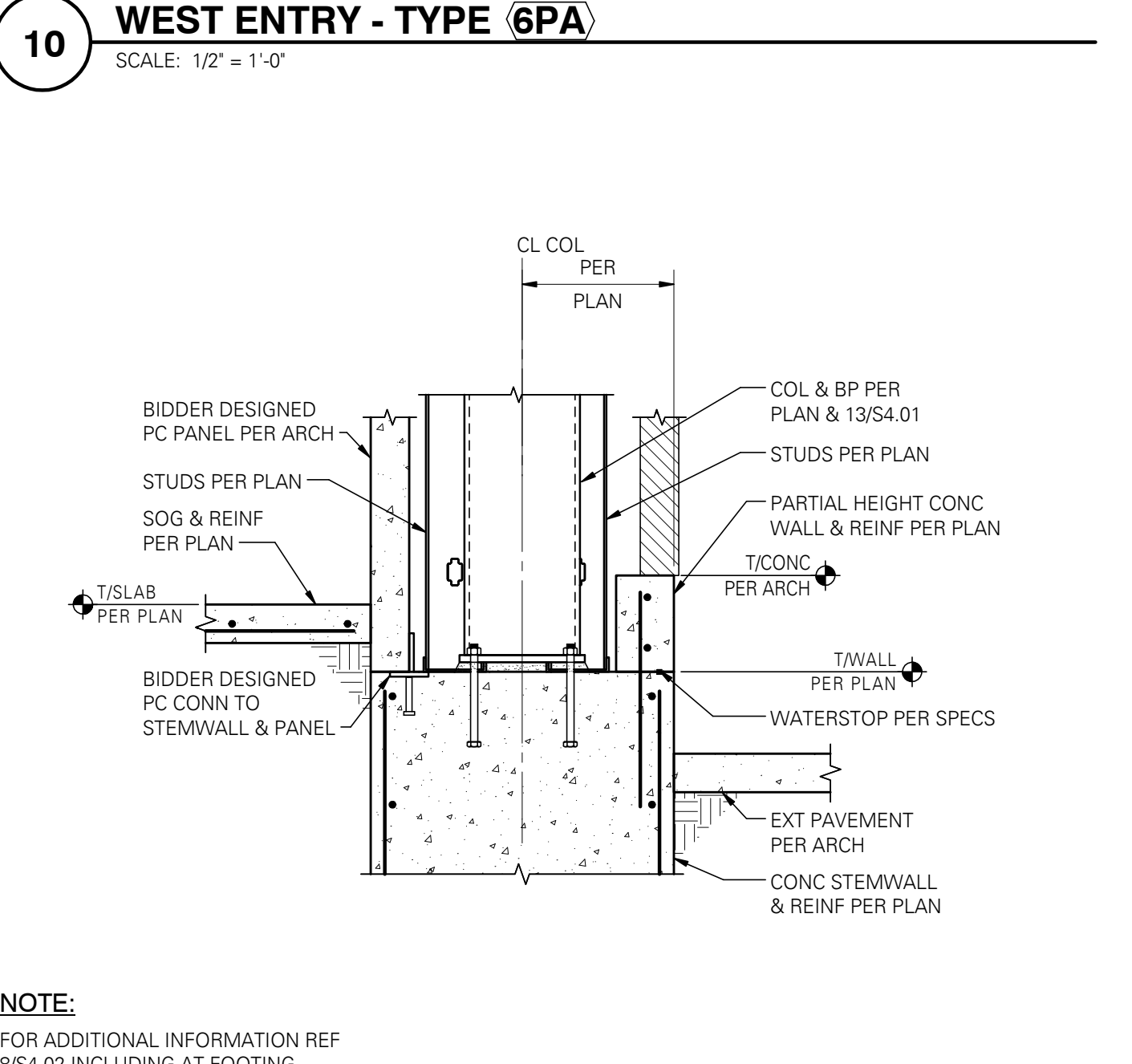
9 FOUNDATION WALL AT PRECAST
SCALE: 3/4" = 1'-0"



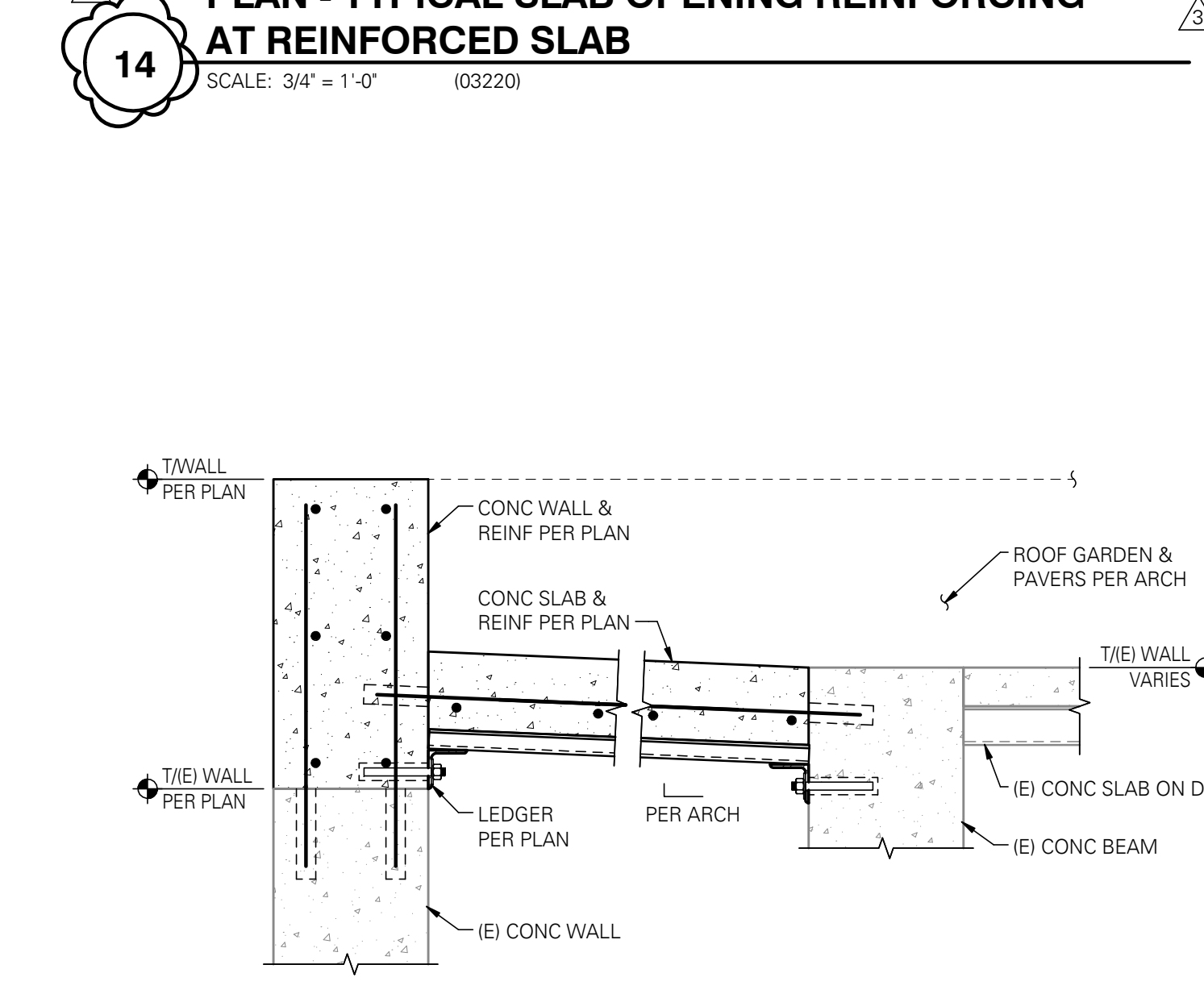
10 PILE CAP W/ (6) PILES AT STEEL COLUMN WEST ENTRY - TYPE (6PA)
SCALE: 1/2" = 1'-0"



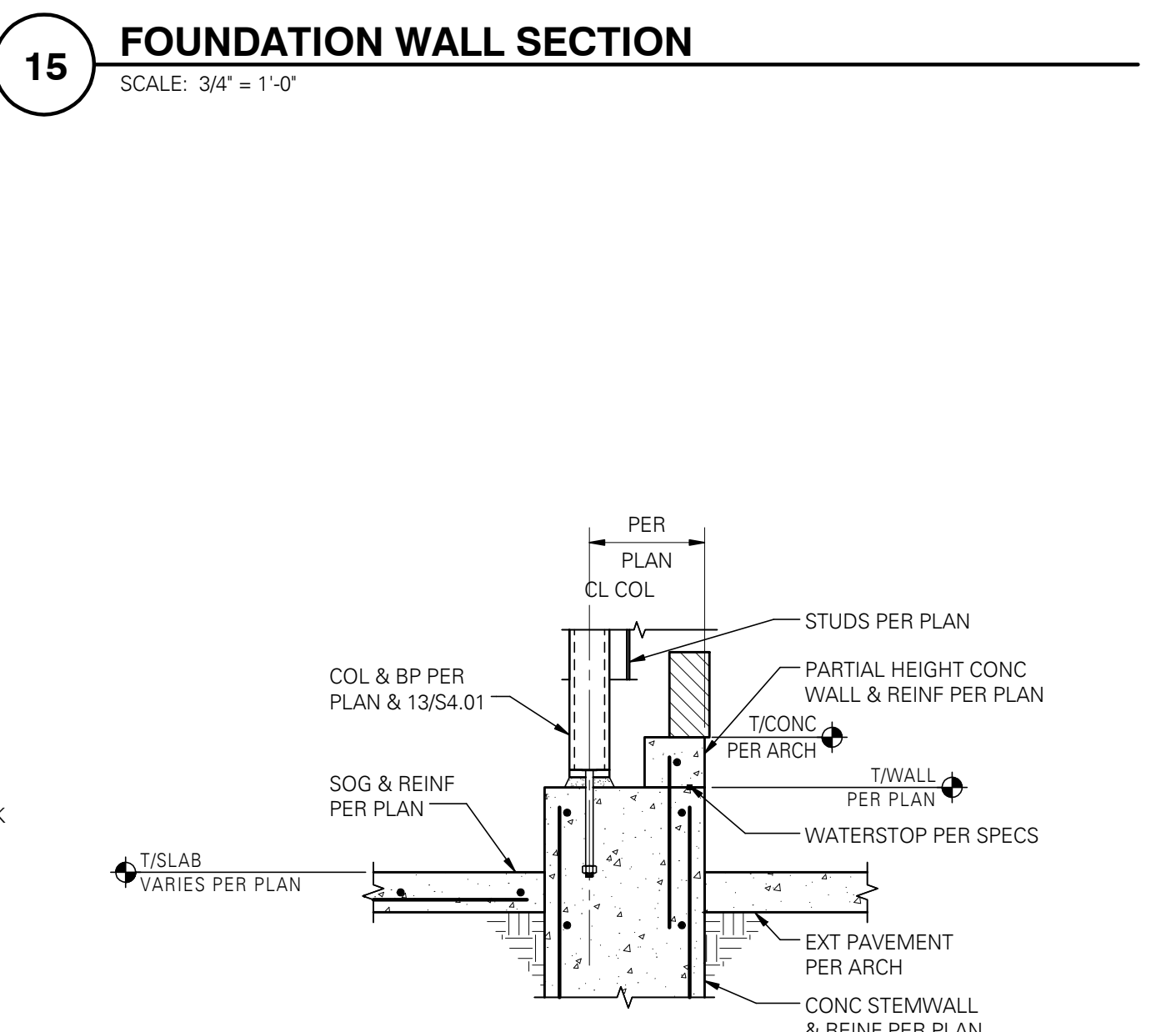
14 PLAN - TYPICAL SLAB OPENING REINFORCING AT REINFORCED SLAB
SCALE: 3/4" = 1'-0"



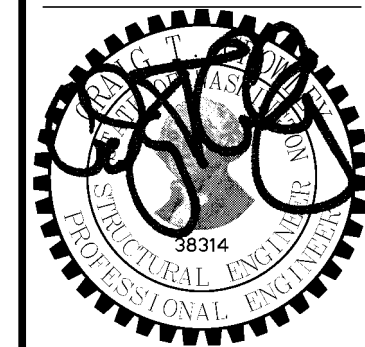
15 FOUNDATION WALL SECTION
SCALE: 3/4" = 1'-0"



19 SLAB INFILL AT EXISTING
SCALE: 1" = 3'-0"



20 FOUNDATION WALL SECTION
SCALE: 3/4" = 1'-0"



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707 W. 2ND AVENUE
SPOKANE, WASHINGTON 99201
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WEBSITE: www.dci-engineers.com

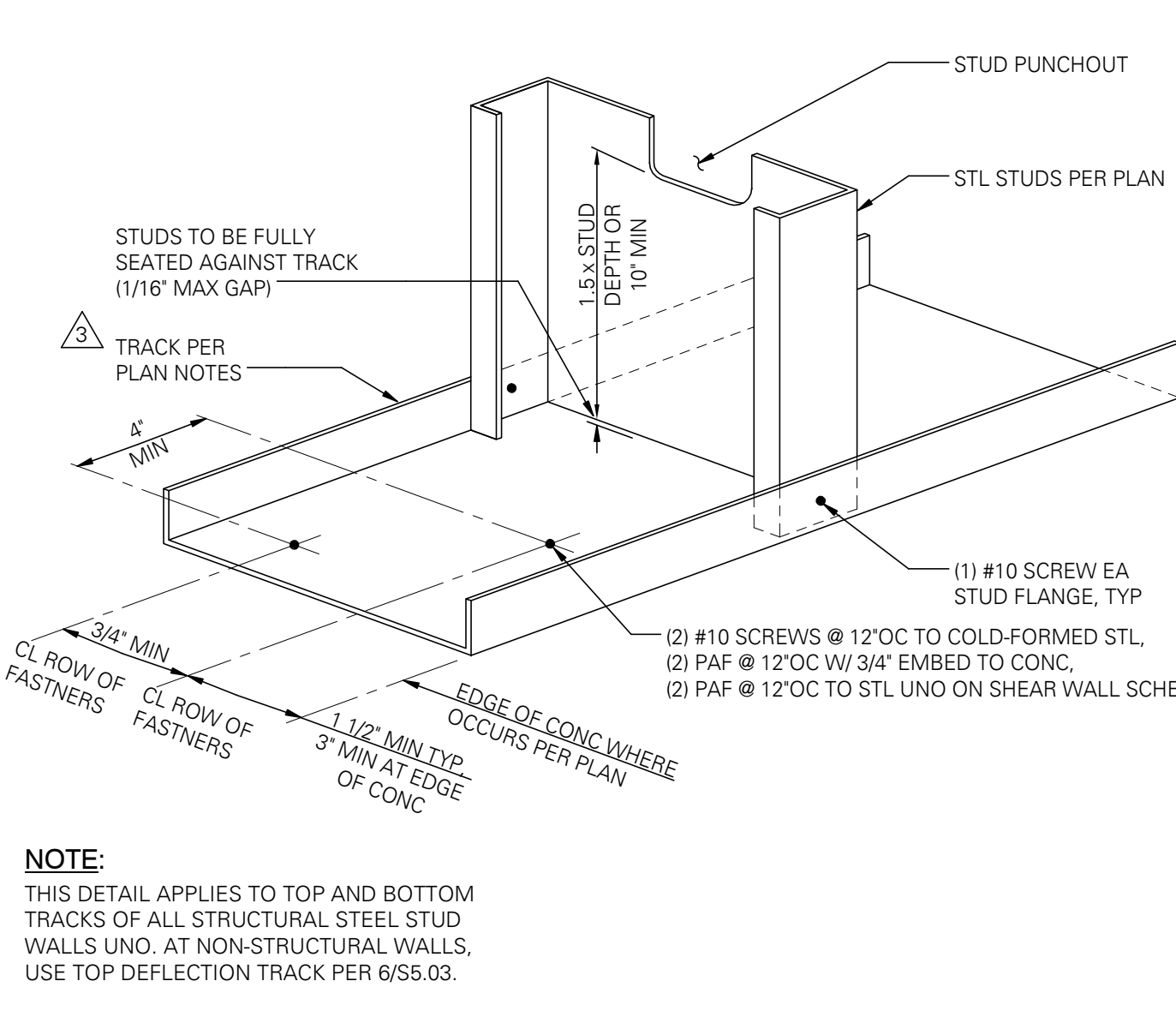
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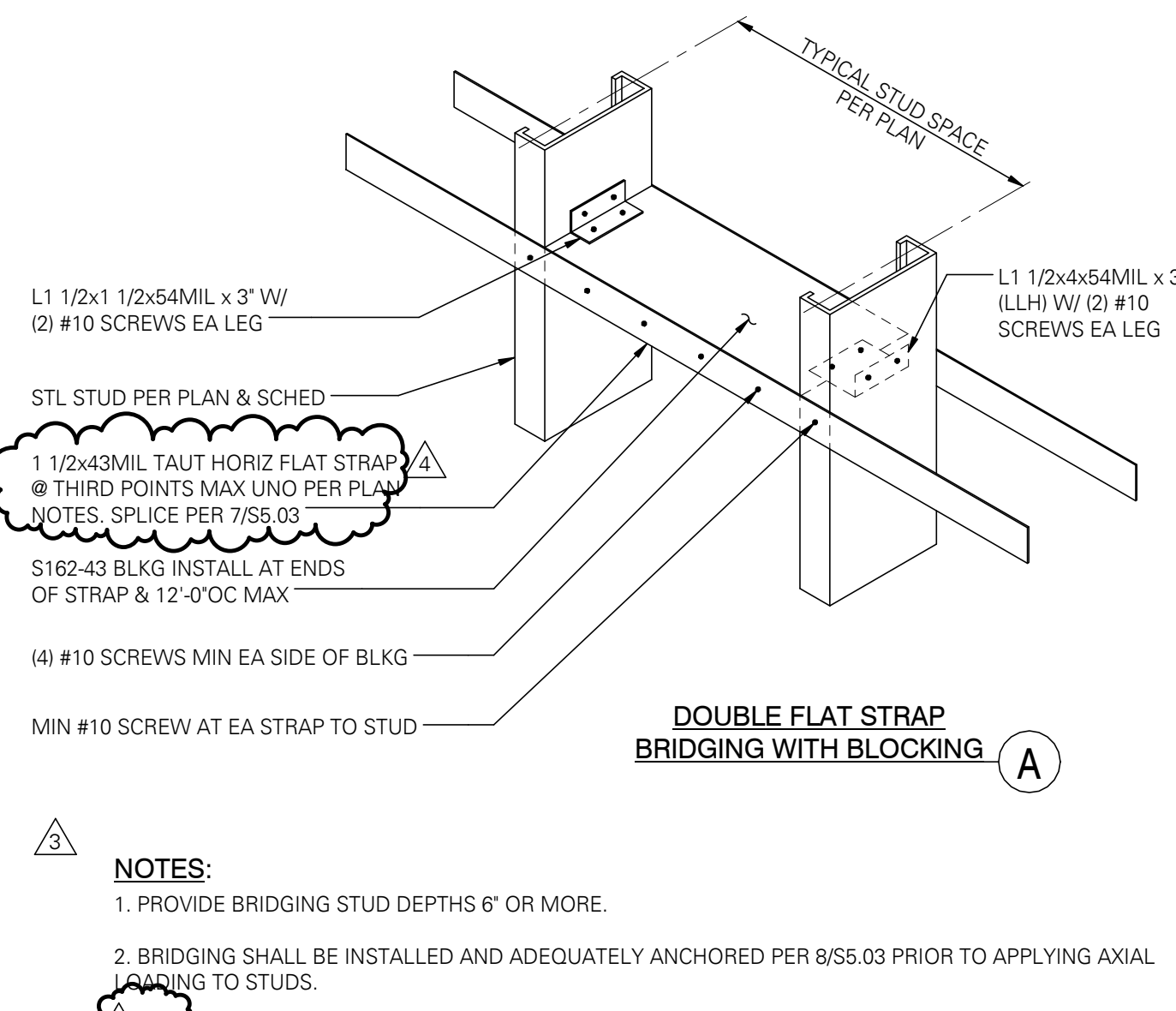
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DRAWN: Author
CHECKED: Checker
DATE: 02/19/16

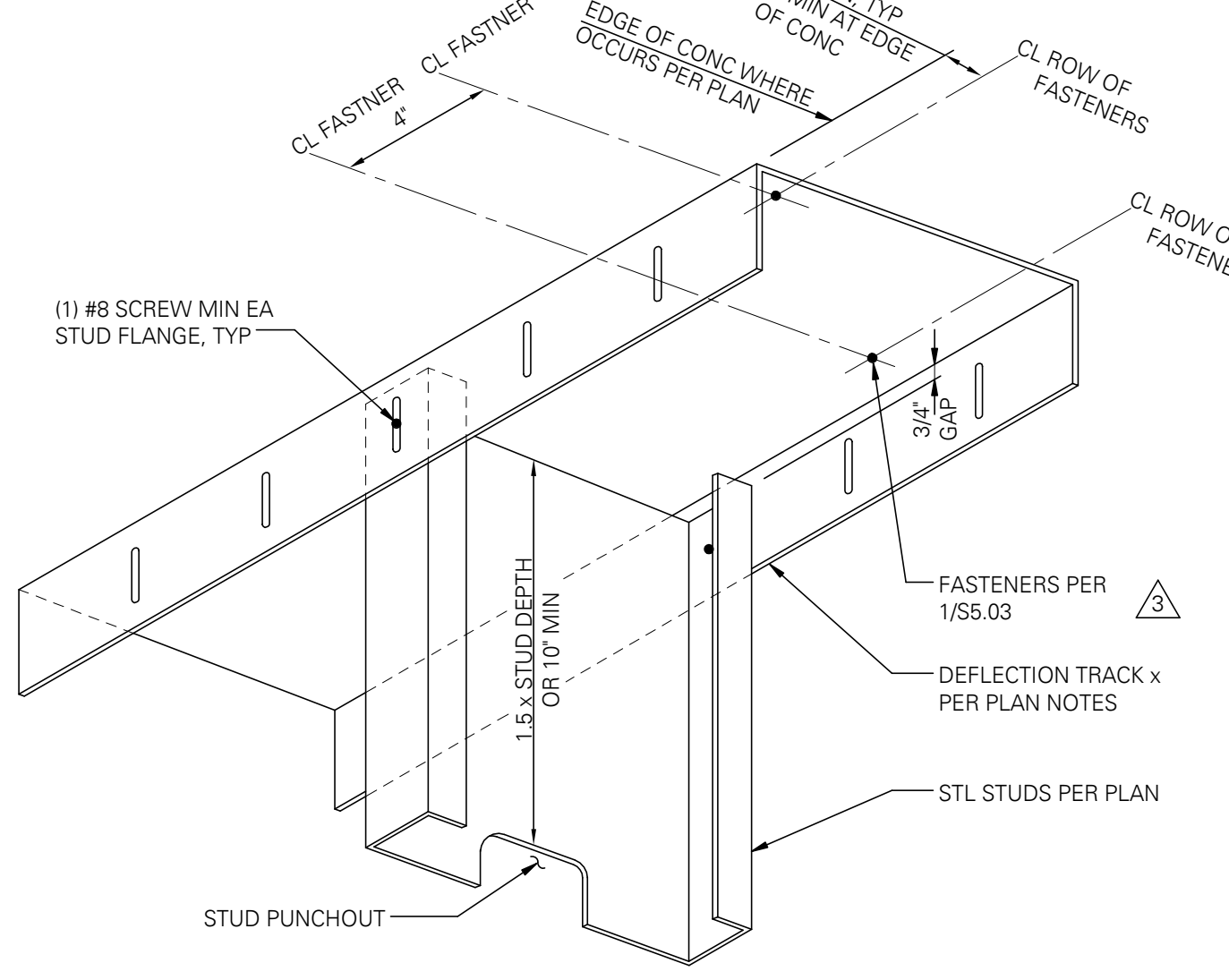
FOUNDATION DETAILS
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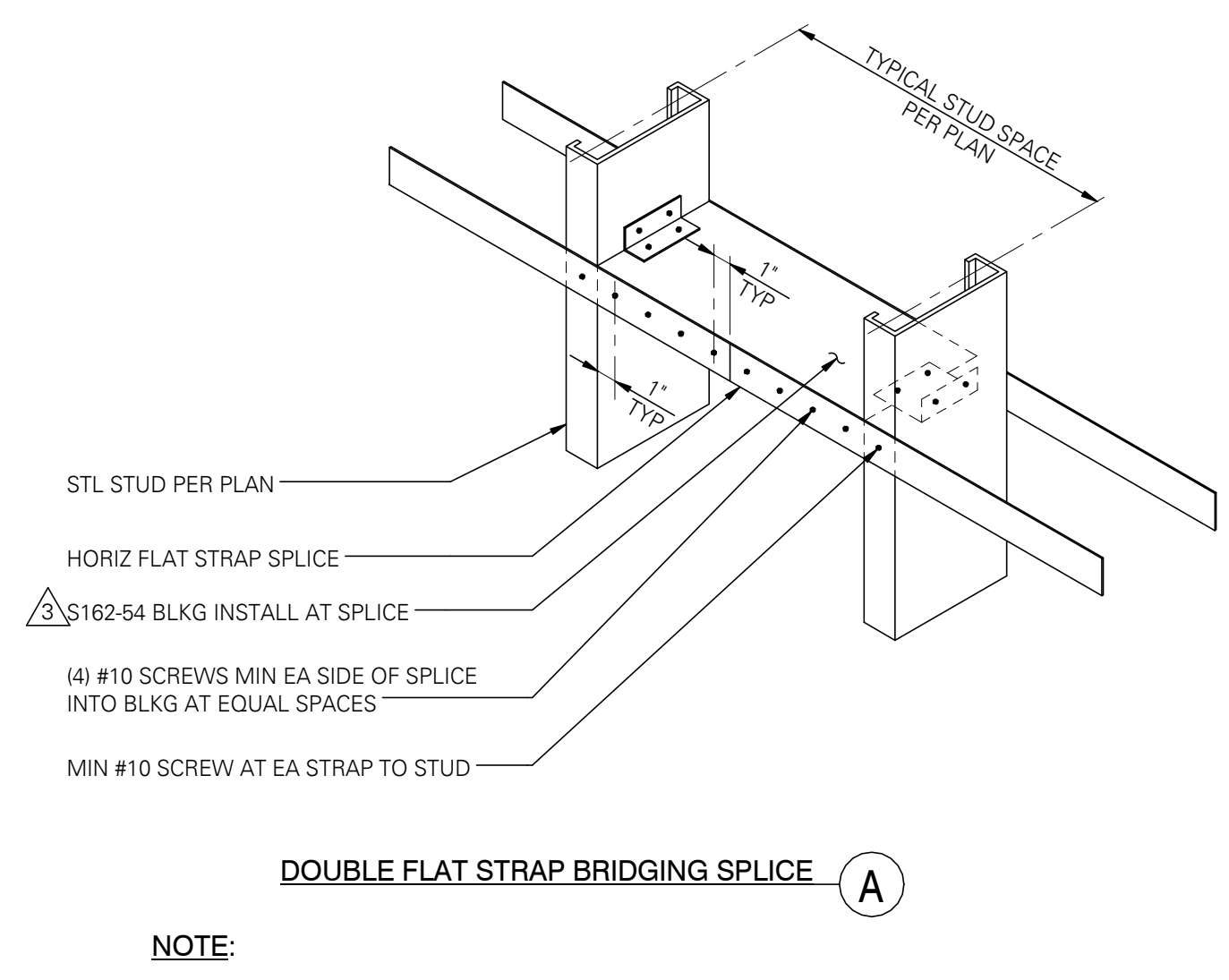
1 TYPICAL TOP AND BOTTOM TRACK DETAIL
SCALE: 1" = 1'-0" (07000)



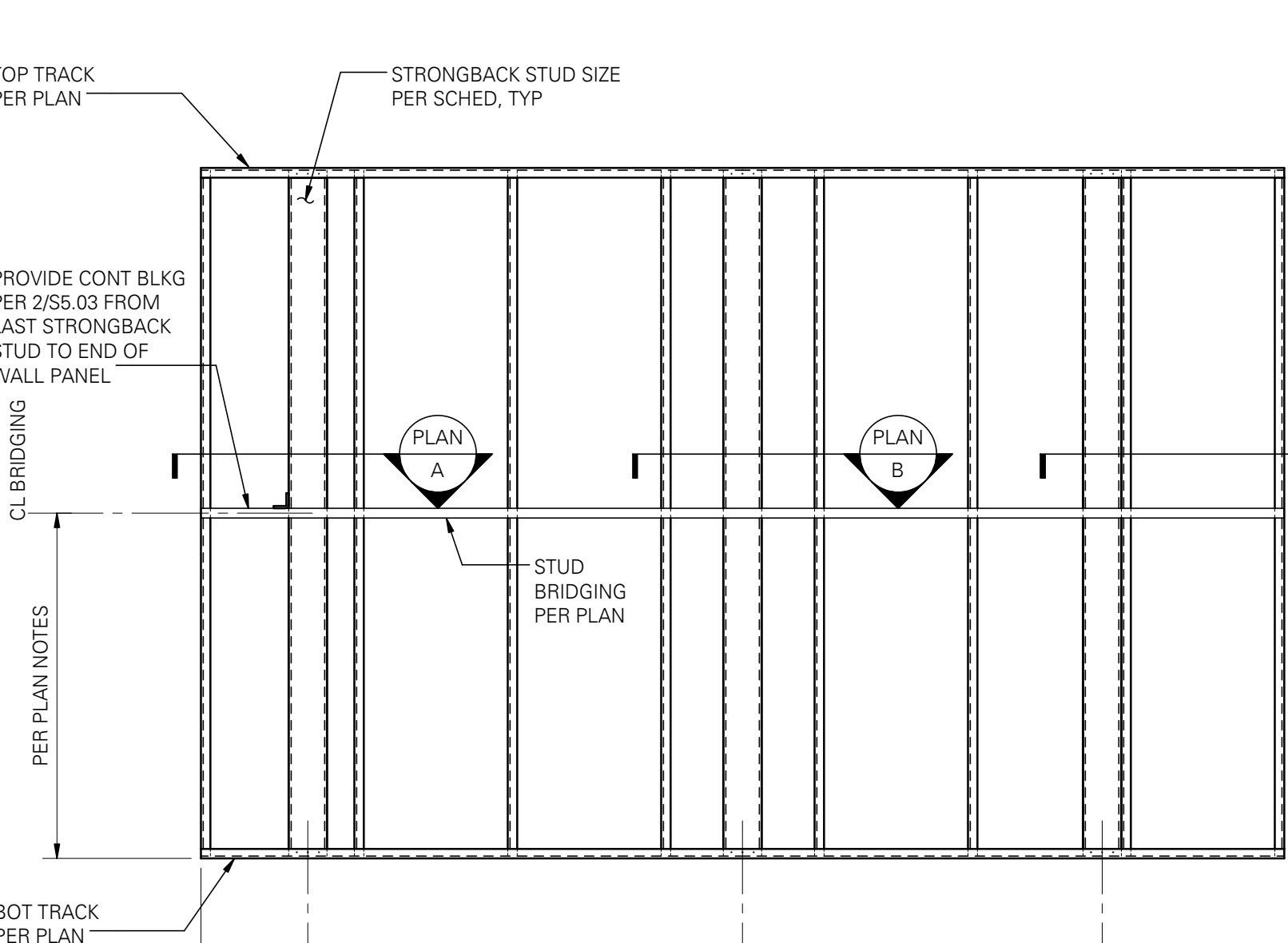
2 TYPICAL STEEL STUD WALL BRIDGING
SCALE: 1 1/2" = 1'-0" (07010M)



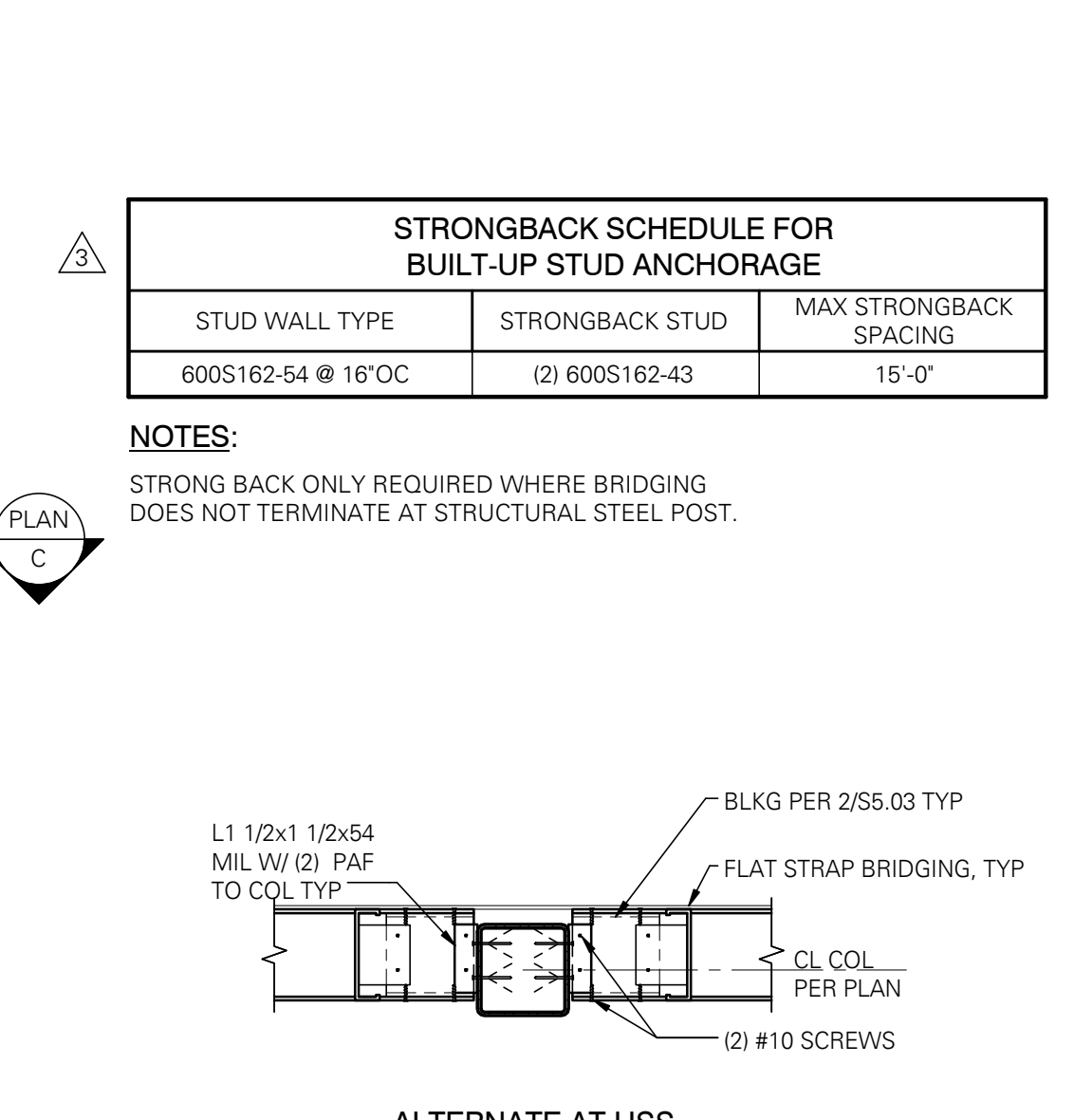
6 TYPICAL NON-BEARING WALL TOP TRACK ATTACHMENT TO CONCRETE SLAB, METAL DECK OR STEEL BEAM
SCALE: 1" = 1'-0" (07003)



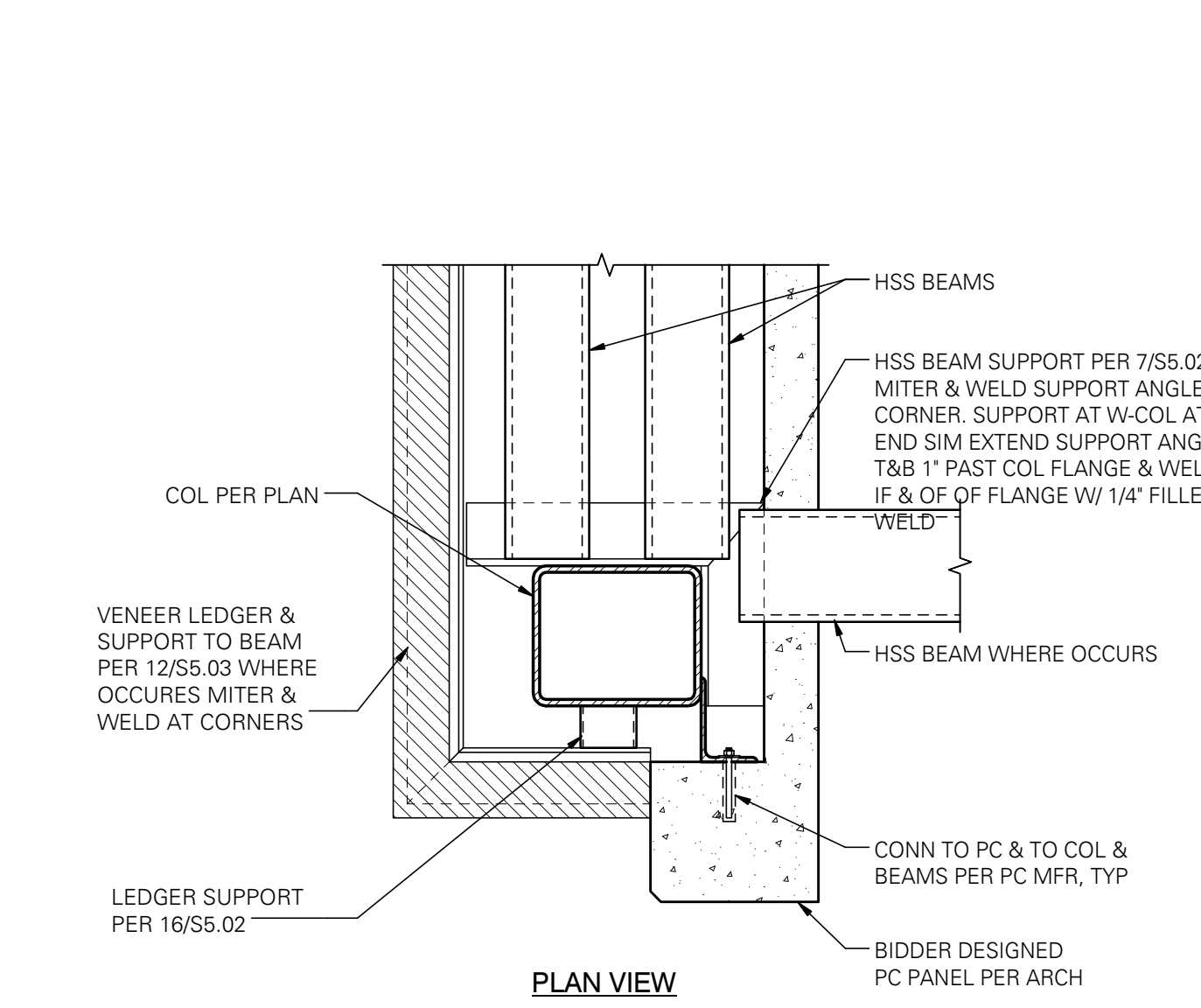
7 TYPICAL STEEL STUD WALL BRIDGING SPLICE DETAIL
SCALE: 1 1/2" = 1'-0" (07011M)



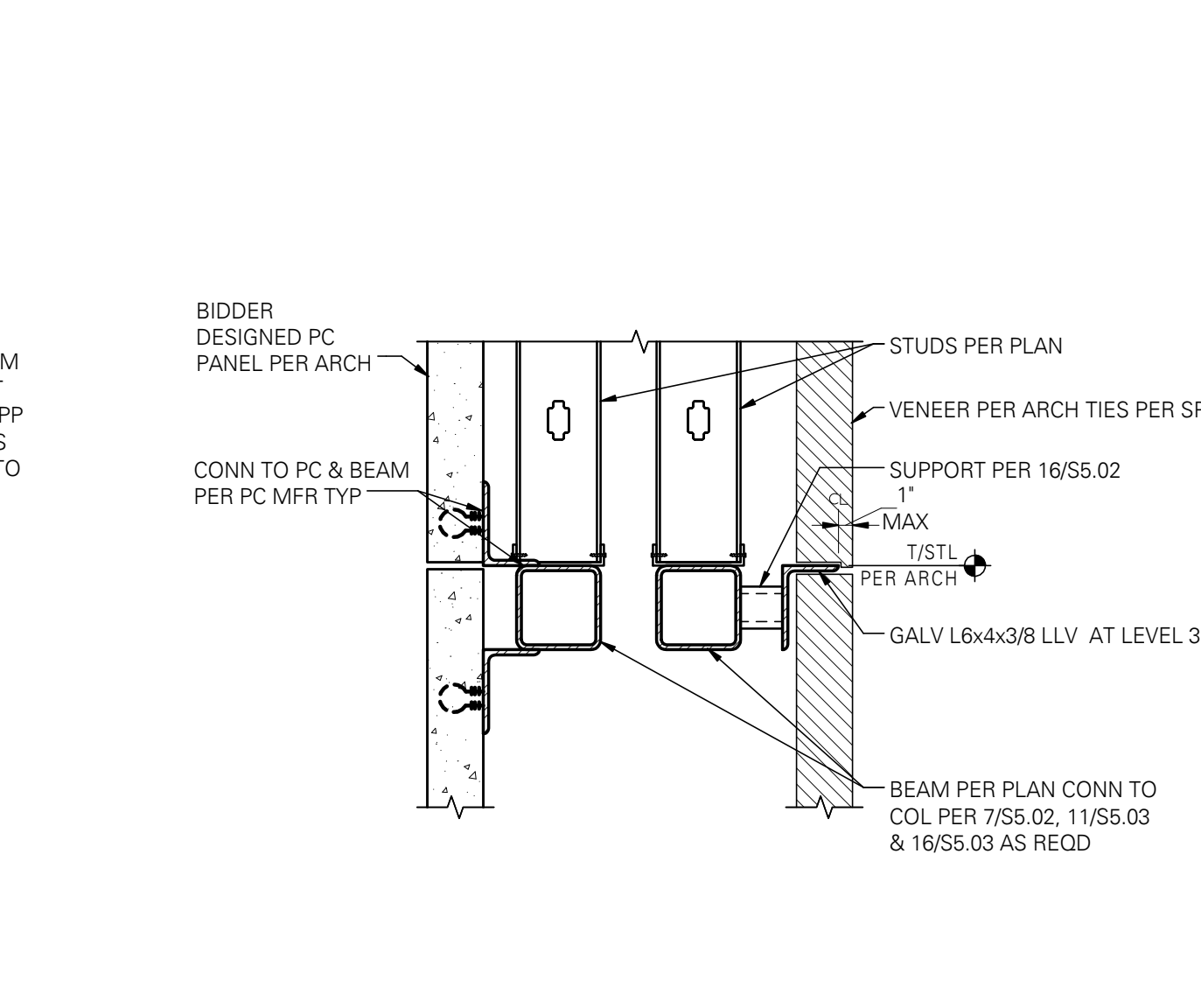
8 TYPICAL STEEL STUD BEARING/SHEAR WALL FLAT STRAP BRIDGING ANCHORAGE
SCALE: 1/2" = 1'-0" (07020)



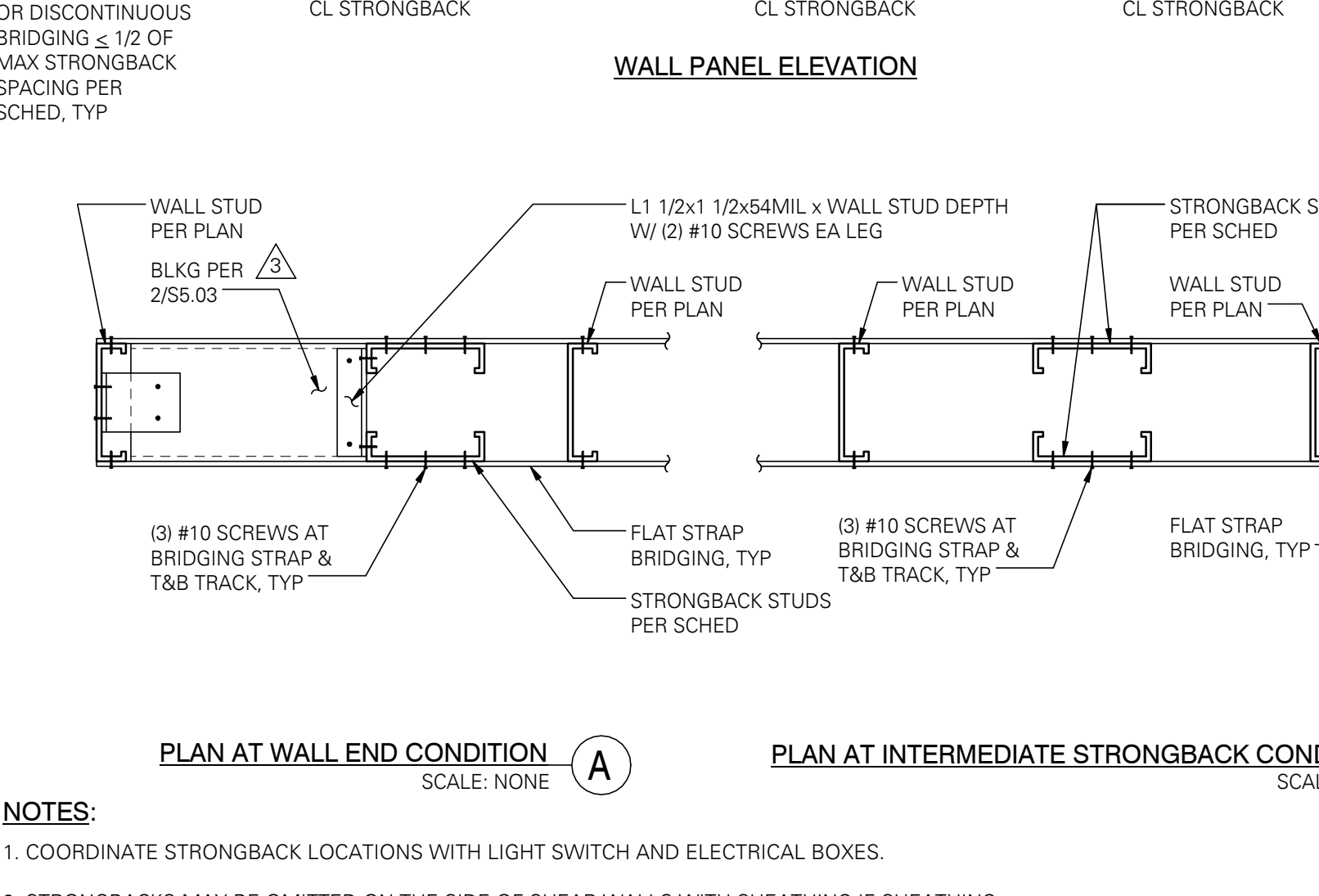
10 TYPICAL LOOSE BRICK VENEER LINTEL
SCALE: 1" = 1'-0" (08001)



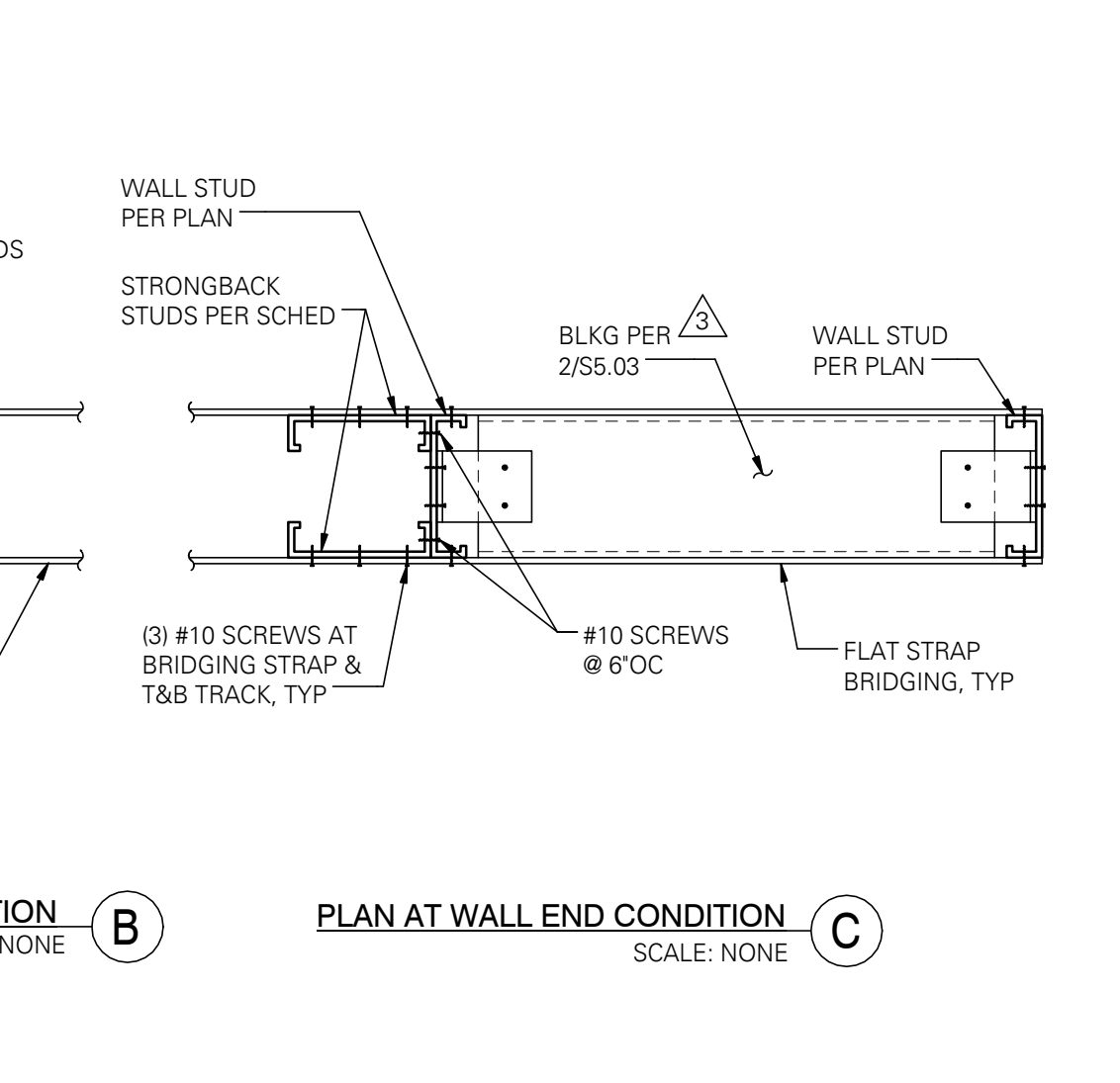
11 PRECAST & VENEER SUPPORT AT COLUMN
SCALE: 1" = 1'-0" (07003)



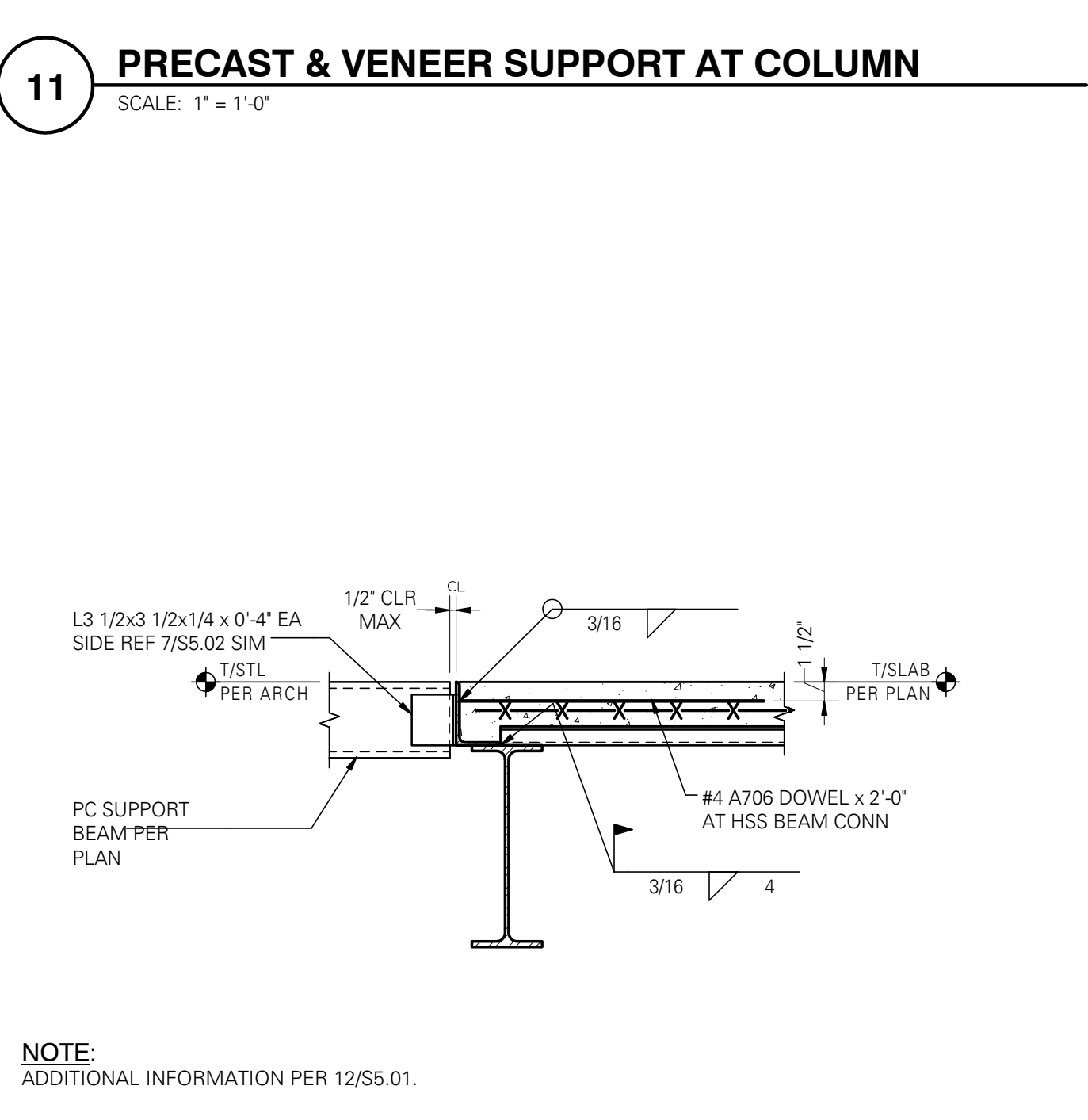
12 PRECAST & VENEER SUPPORT
SCALE: 1" = 1'-0" (07003)



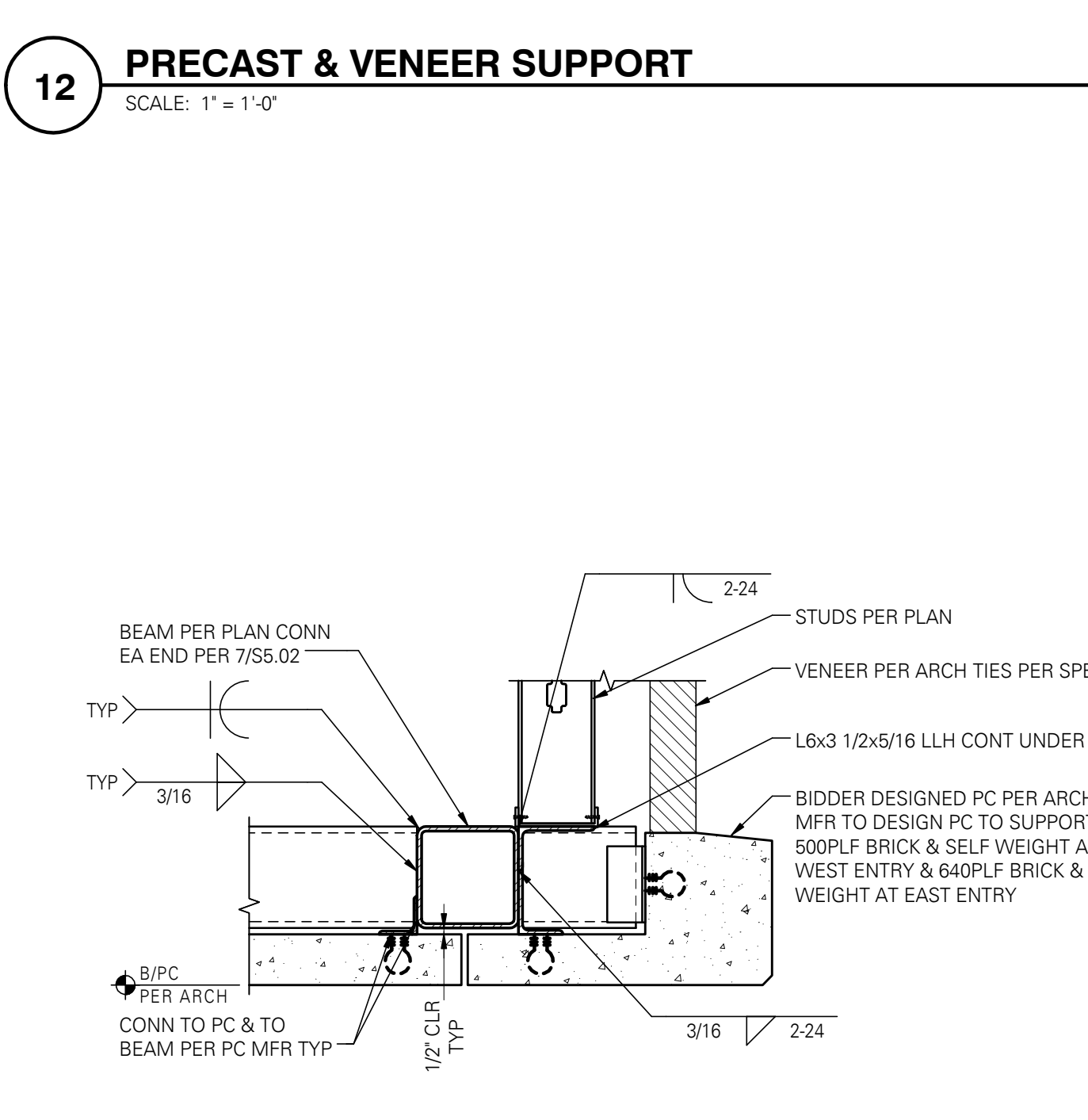
13 FLOOR SLAB TO RAMP
SCALE: 1" = 1'-0" (07020)



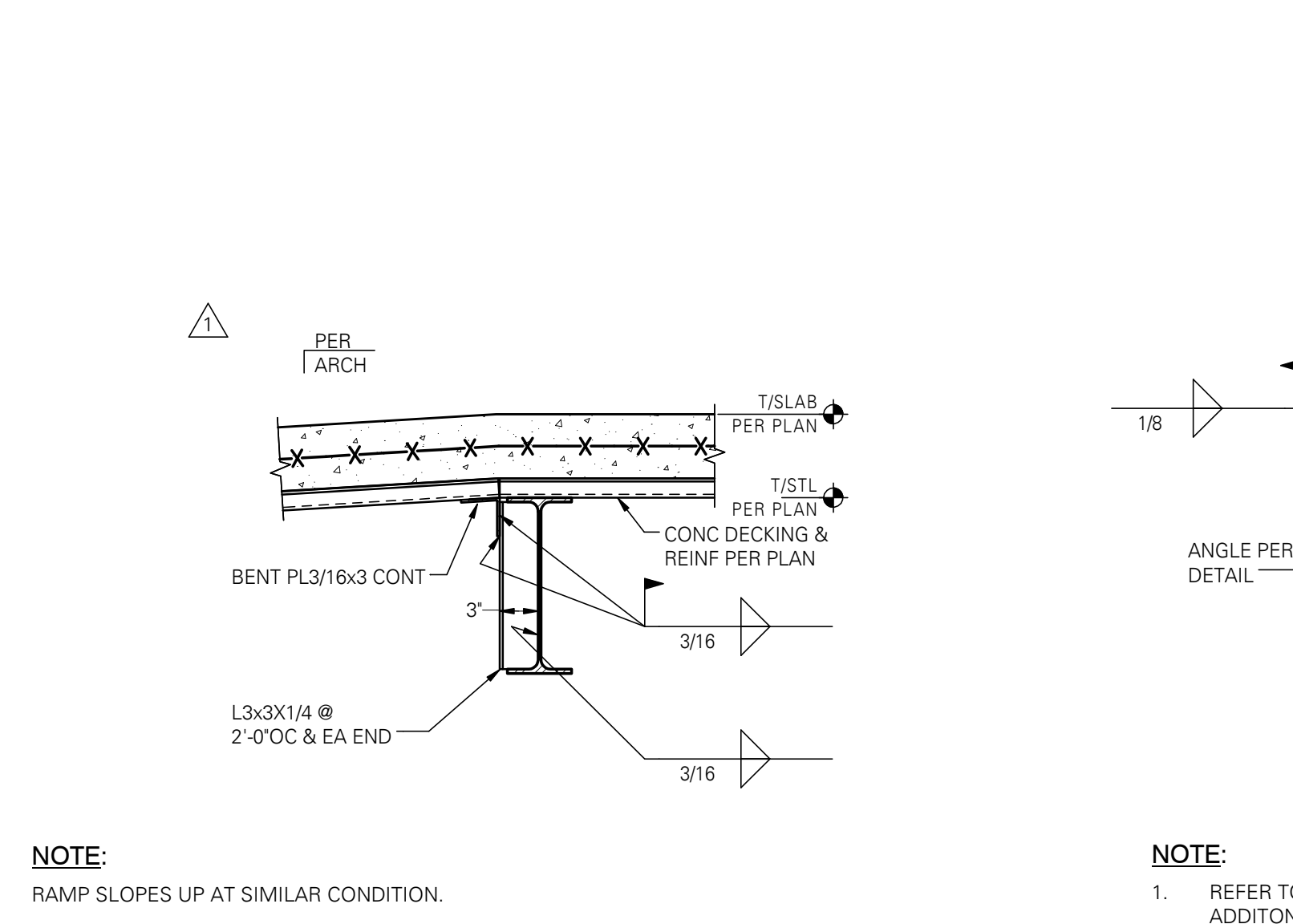
14 BRICK TRANSITION SUPPORT
SCALE: 1" = 1'-0" (08001)



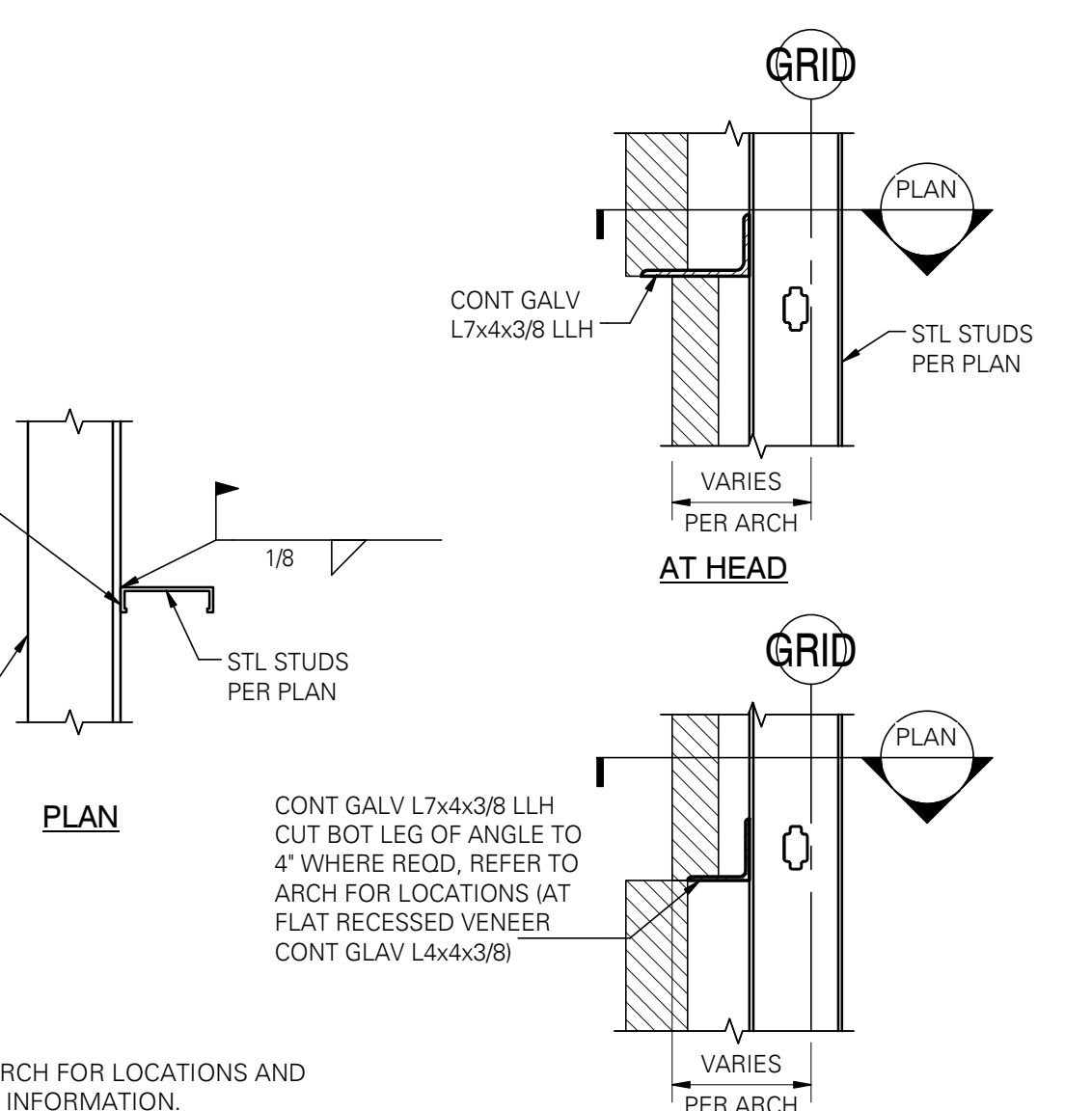
16 PRECAST BEAM SUPPORT AT SLAB EDGE
SCALE: 1" = 1'-0" (07003)



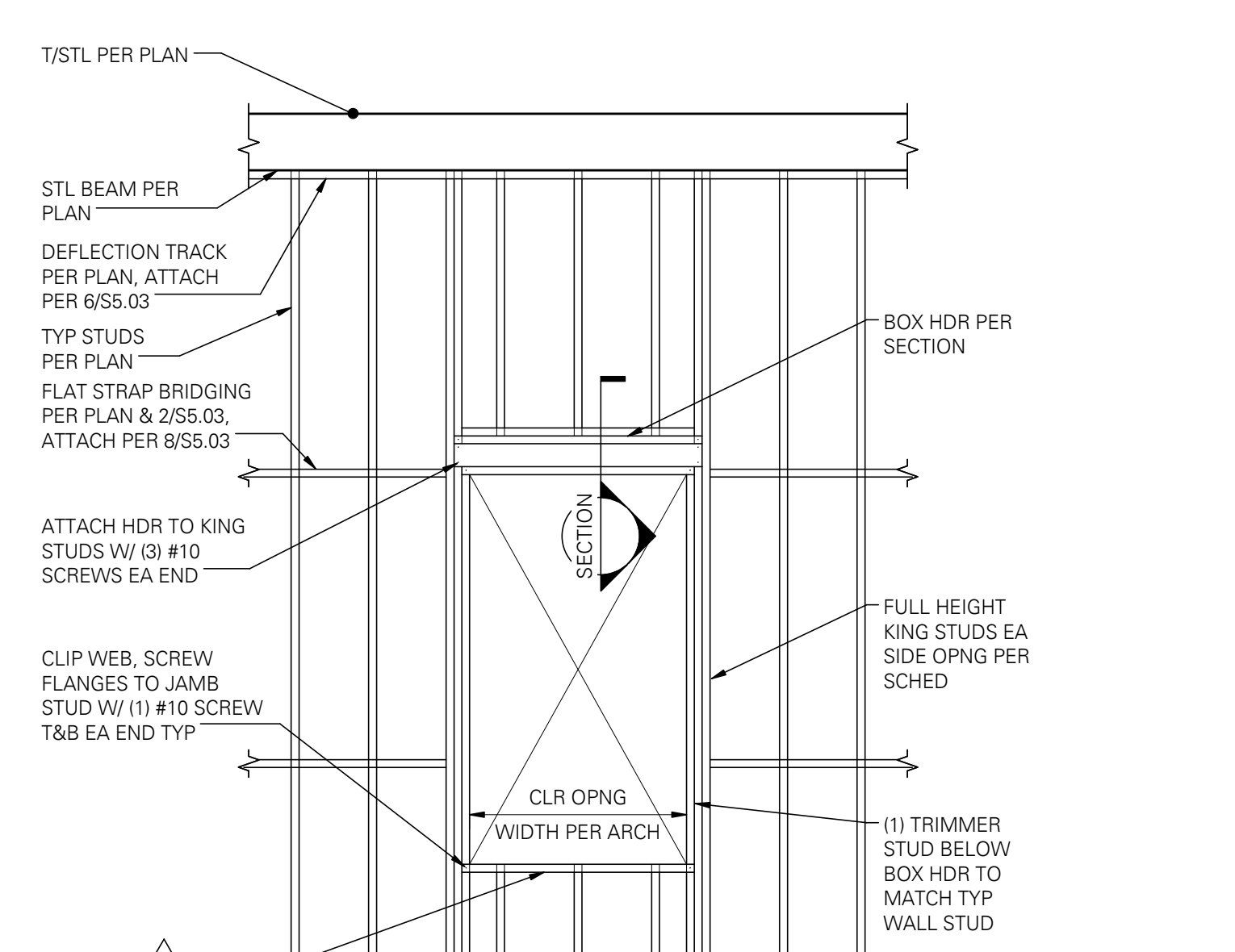
17 PRECAST SOFFIT SUPPORT
SCALE: 1" = 1'-0" (07003)



18 RAMP EDGE
SCALE: 1" = 1'-0" (07020)



19 CANTILEVERED JOIST MOMENT CONNECTION
SCALE: 1" = 1'-0" (08001)



20 TYPICAL LOOSE BRICK VENEER LINTEL
SCALE: 1" = 1'-0" (08001)

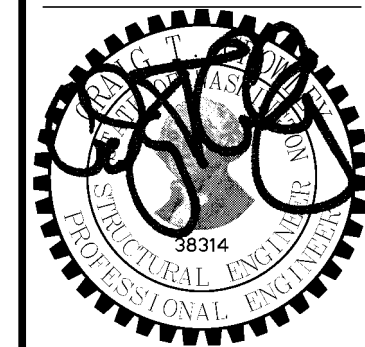
REVISONS
1 ADDENDUM 1 02-09-16
2 ADDENDUM 3 02-19-16
4 ADDENDUM 4 03-02-16

DCI ENGINEERS
707 W. 2ND AVENUE
SPOKANE, WASHINGTON 99201
PHONE: 509.325.1057
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WWW.DCI-ENGINEERS.COM

SPOKANE PUBLIC SCHOOL DISTRICT NO. 81
NORTH CENTRAL HS CAFETERIA/COMMONS ADDITION
1600 NORTH HOWARD STREET, SPOKANE, WA 99205

NAC ARCHITECTURE
nacarchitecture.com
111-15017
JLJ
LMB
02/19/16

FRAMING DETAILS
CD S5.03



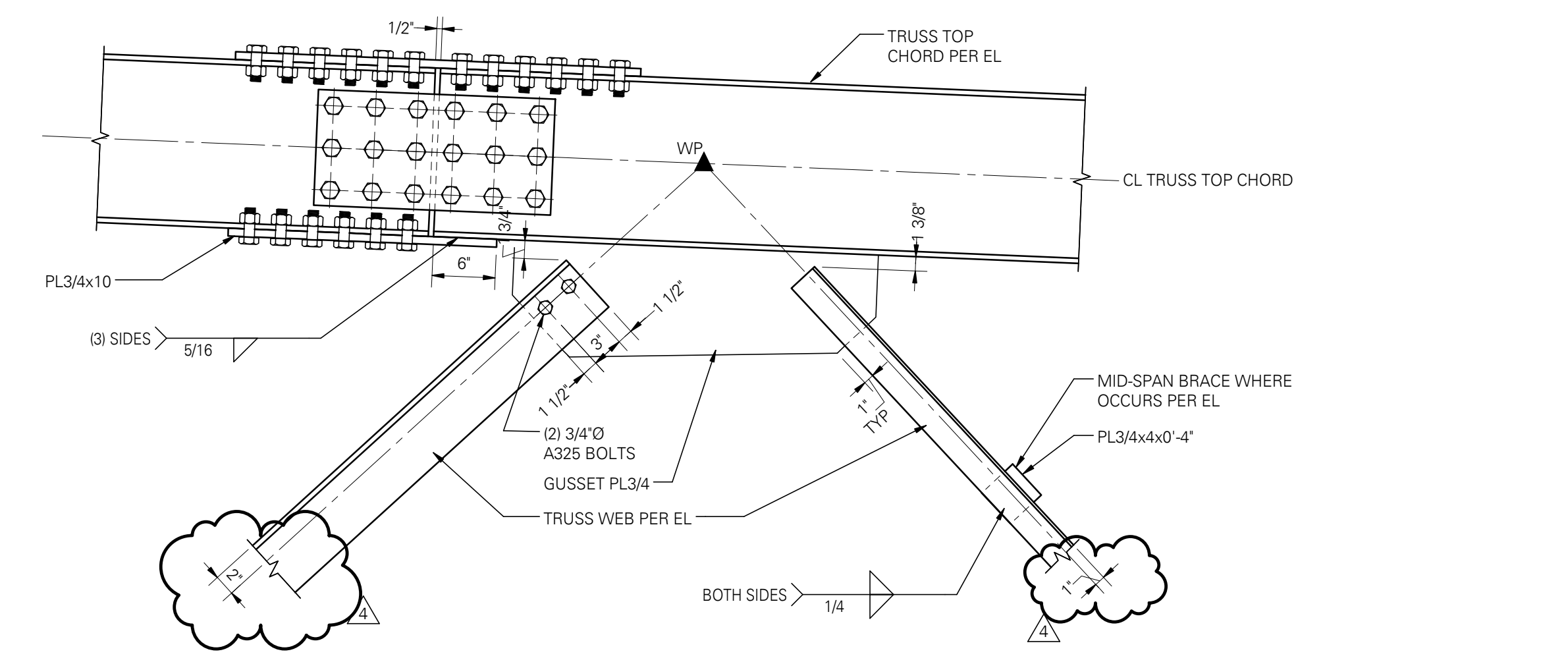
DCD
ENGINEERS
707 W. 2ND AVENUE
SPOKANE, WASHINGTON 99201
PHONE: 509.325.1000
WEBSITE: www.dcd-engineers.com
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NORTH CENTRAL HS CAFETERIA/COMMONS ADDITION
1600 NORTH HOWARD STREET, SPOKANE, WA 99205

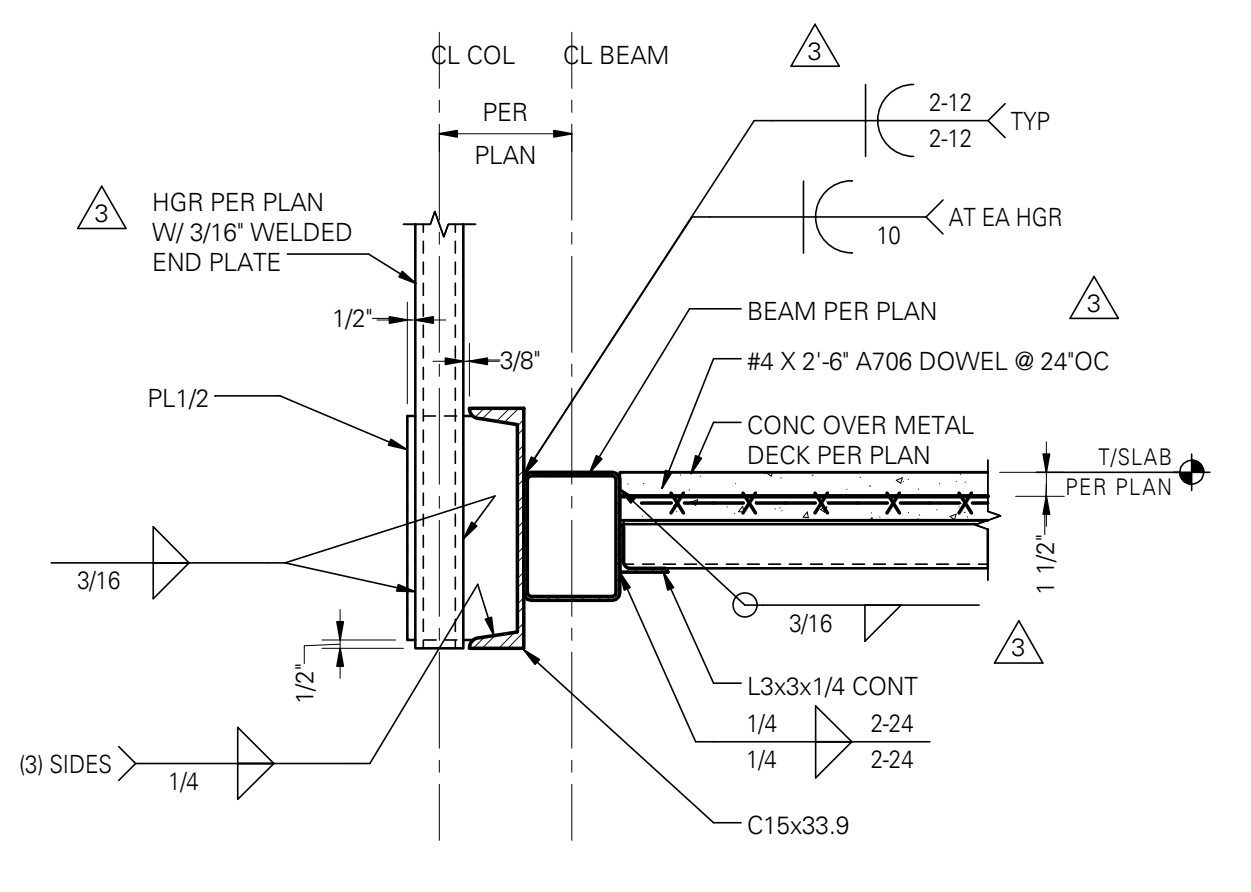


NAC
ARCHITECTURE
nacarchitecture.com
100 WEST PARKWAY
SPOKANE, WASHINGTON
P: 509.838.8240

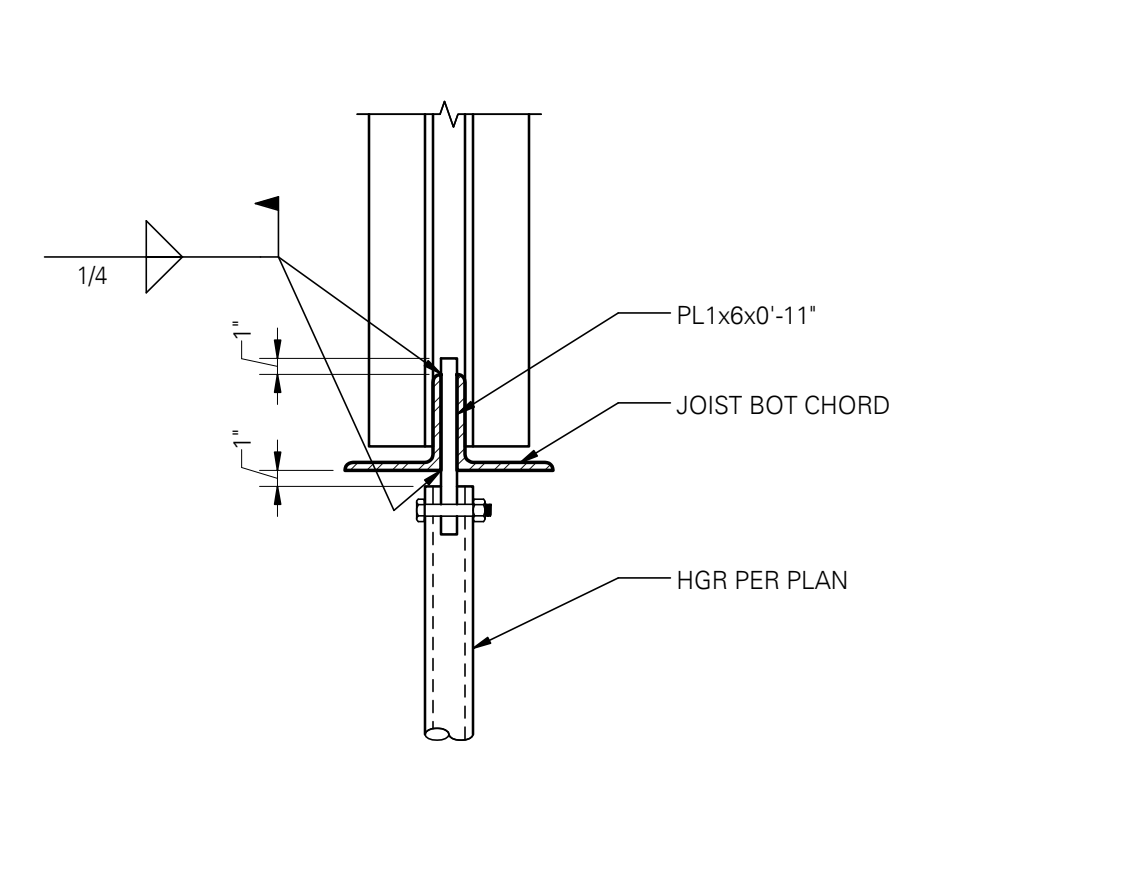
NO: 111-15017
DRAWN: J.L.J.
CHECKED: L.M.B.
DATE: 02/19/16



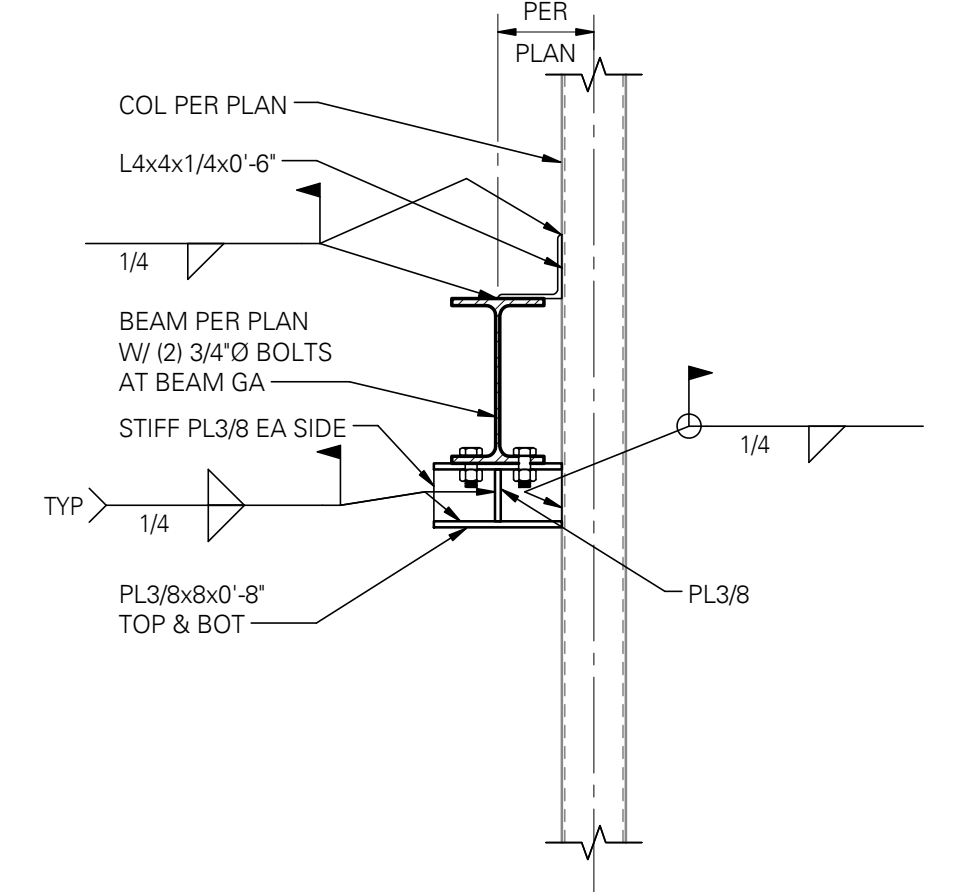
4 CUSTOM TRUSS TOP CHORD SPLICE
SCALE: 1" = 1'-0"



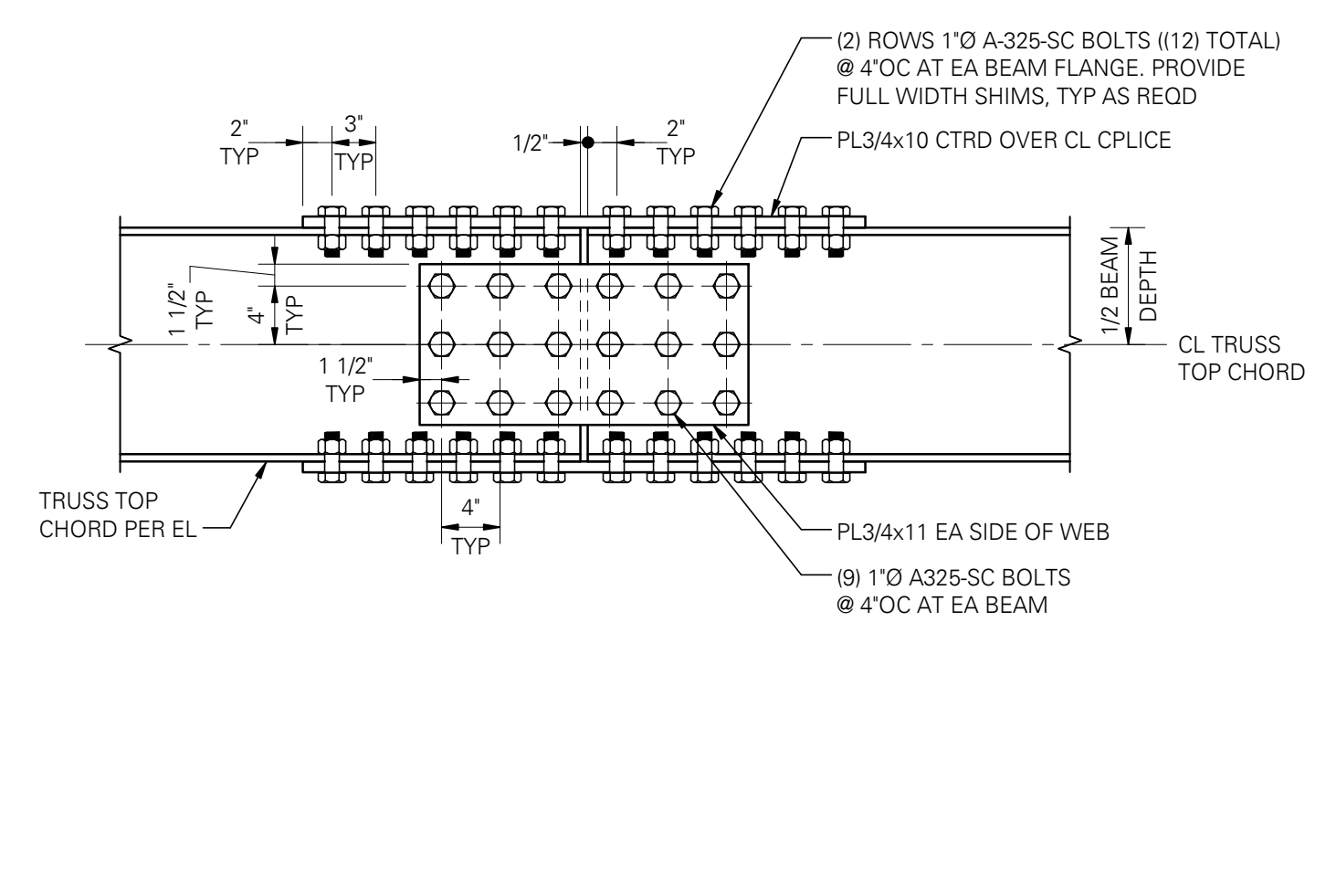
3 BRIDGE HANGER CONNECTION
SCALE: 1" = 1'-0"



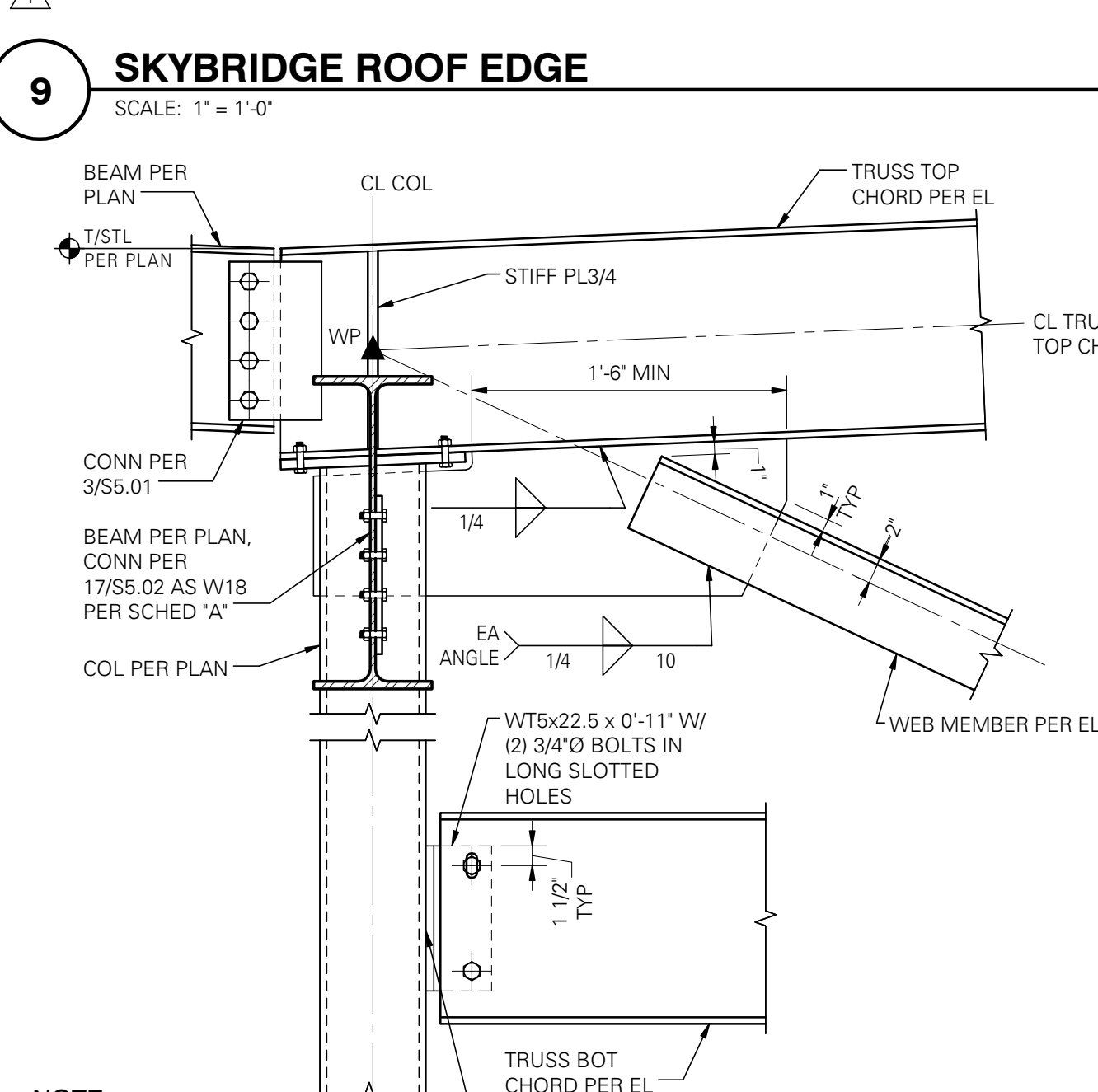
2 HANGER AT OPEN WEB STEEL JOIST
SCALE: 1" = 1'-0"



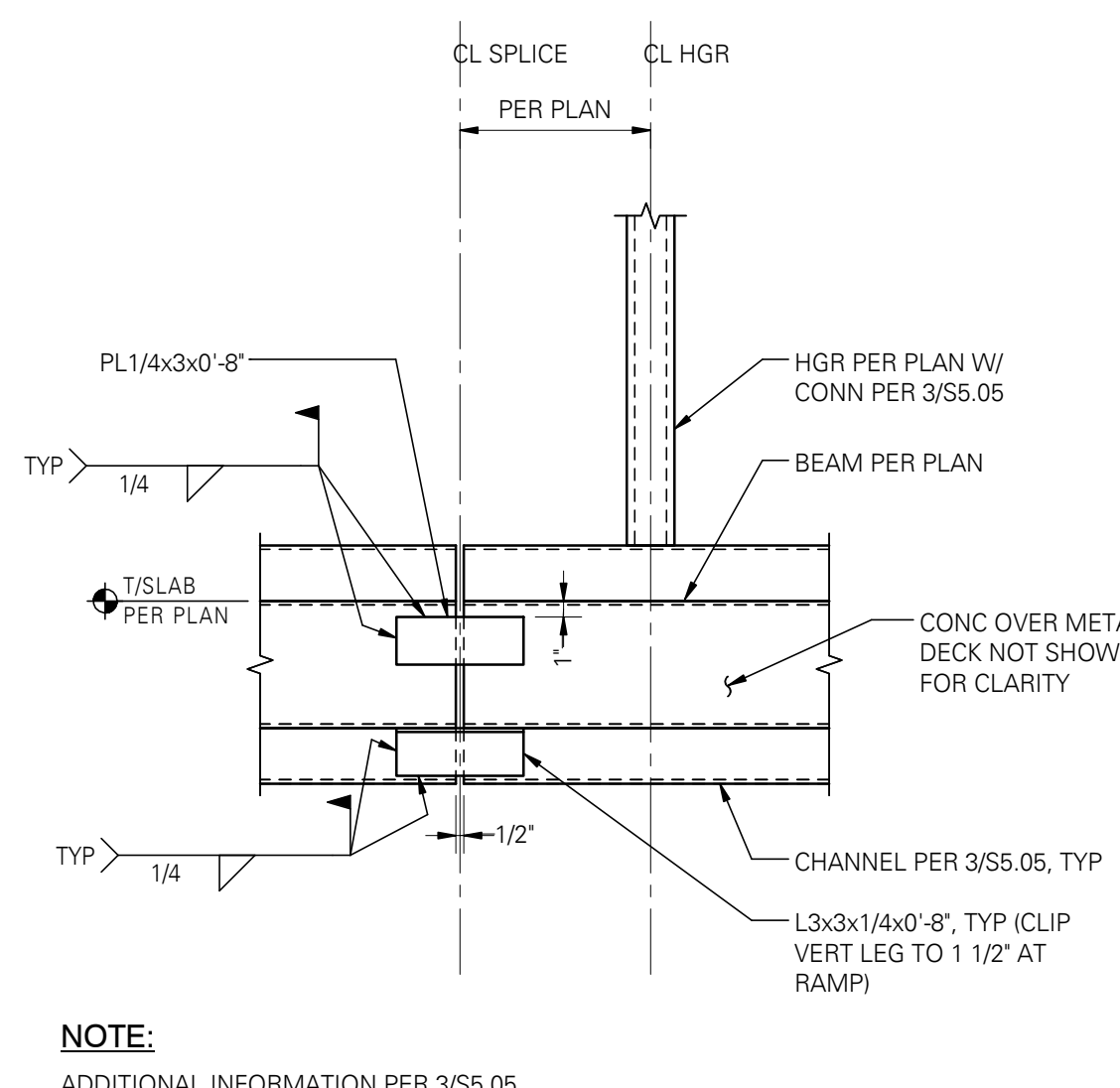
1 OFFSET BEAM AT COLUMN
SCALE: 1" = 1'-0"



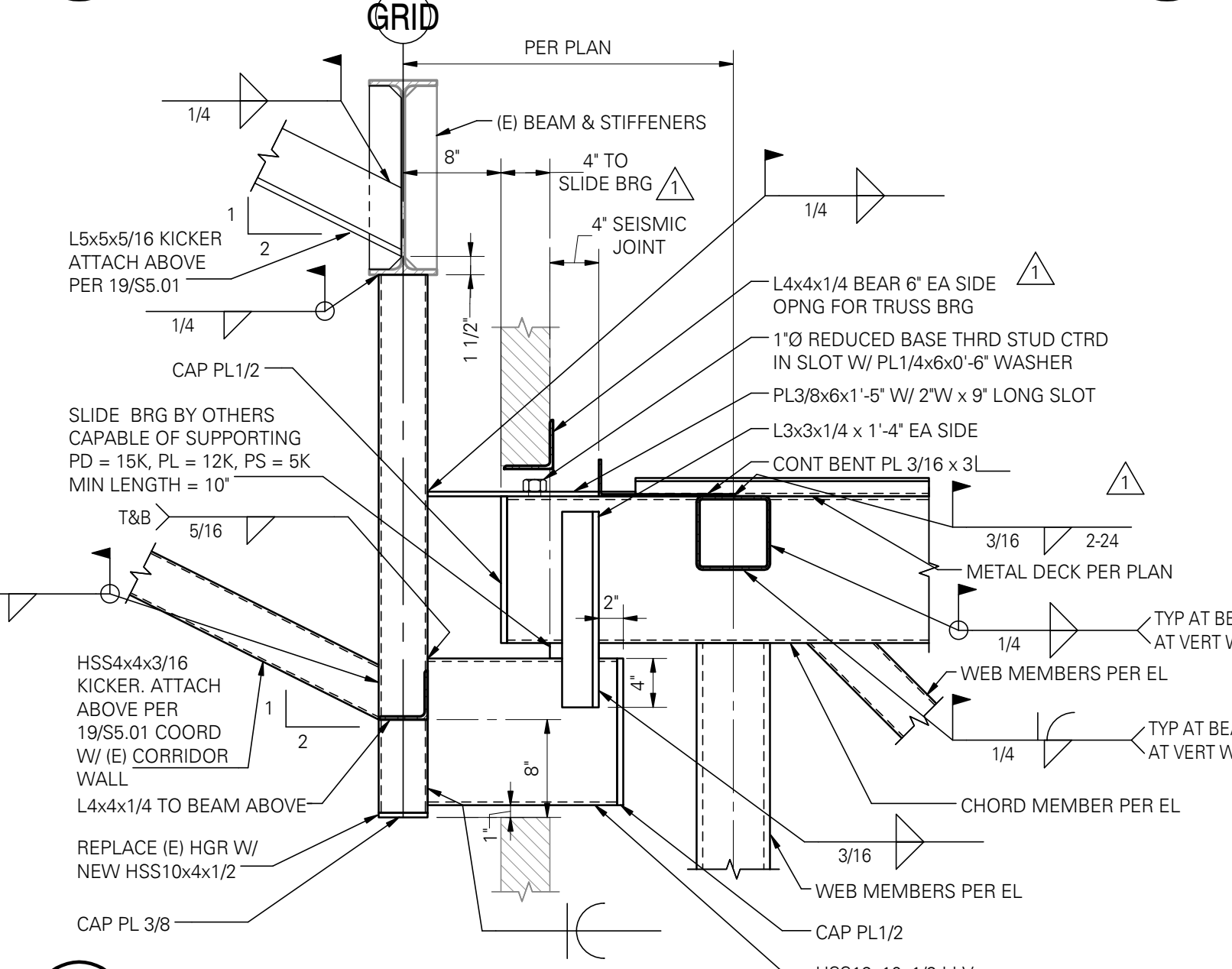
10 CUSTOM TRUSS TOP CHORD SPLICE
SCALE: 1" = 1'-0"



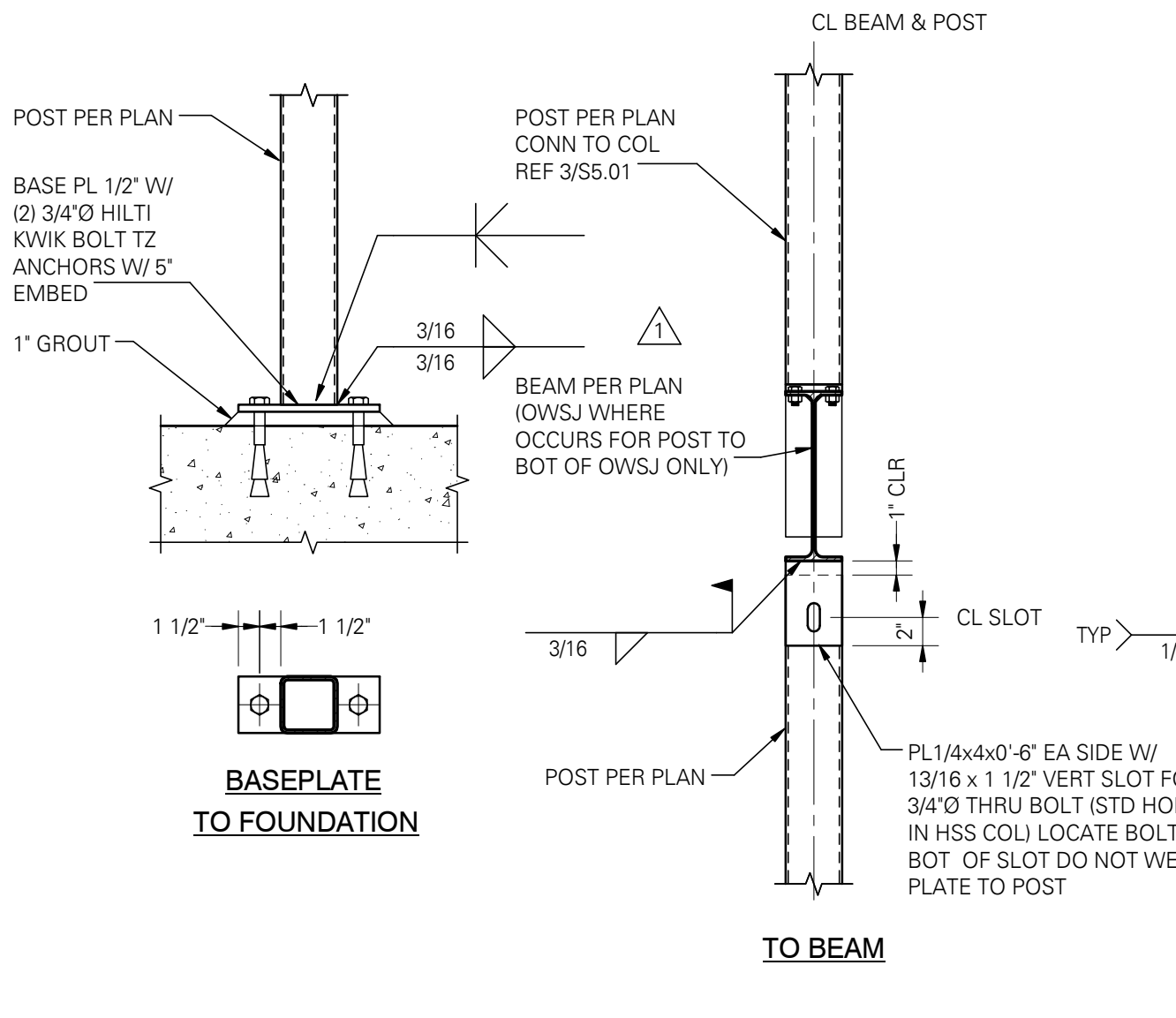
9 SKYBRIDGE ROOF EDGE
SCALE: 1" = 1'-0"



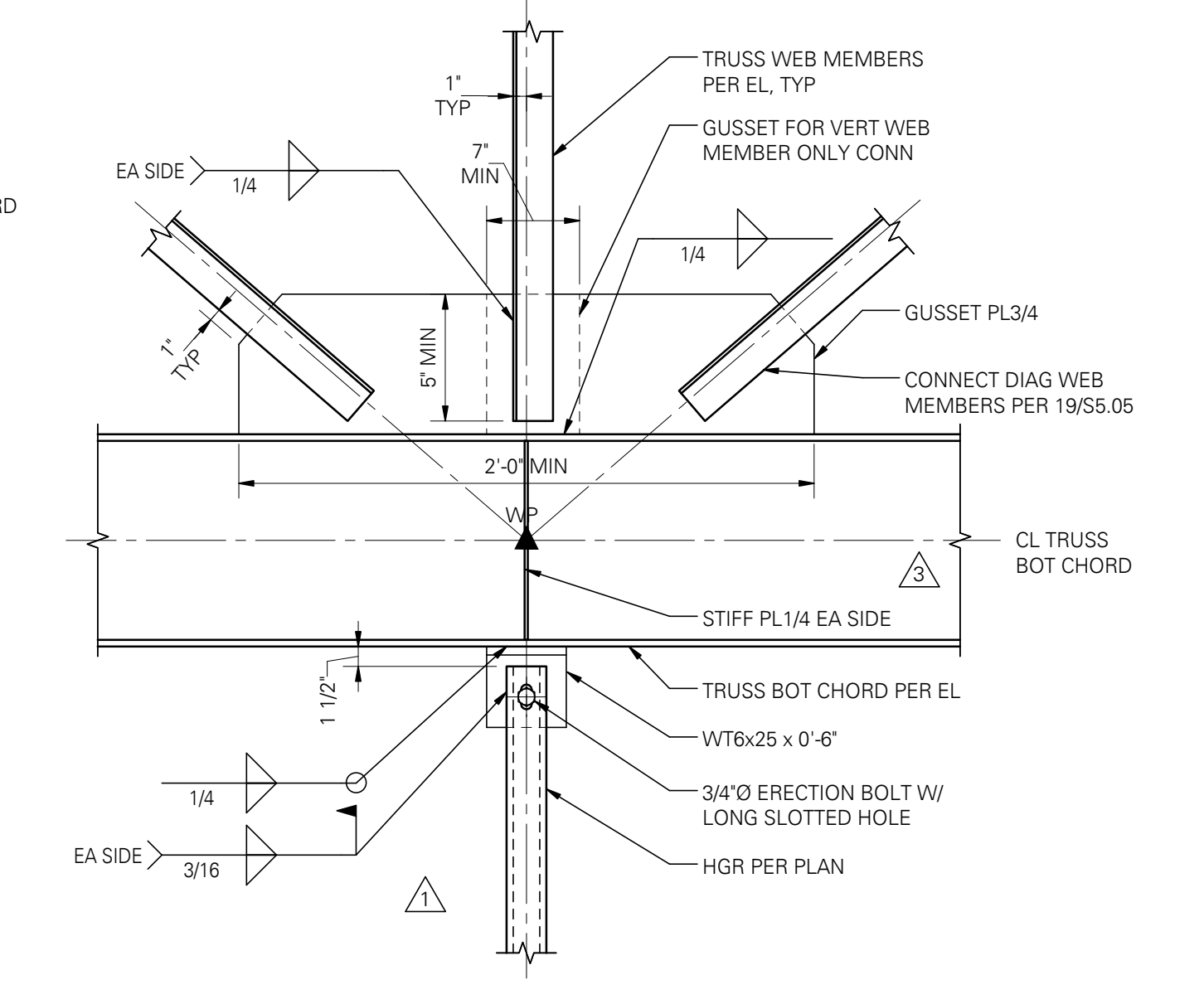
8 BRIDGE BEAM SPLICE
SCALE: 1" = 1'-0"



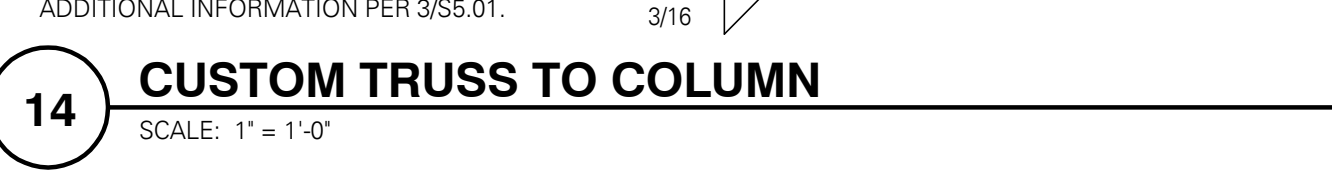
7 SKYBRIDGE AT SEISMIC JOINT
SCALE: 1" = 1'-0"



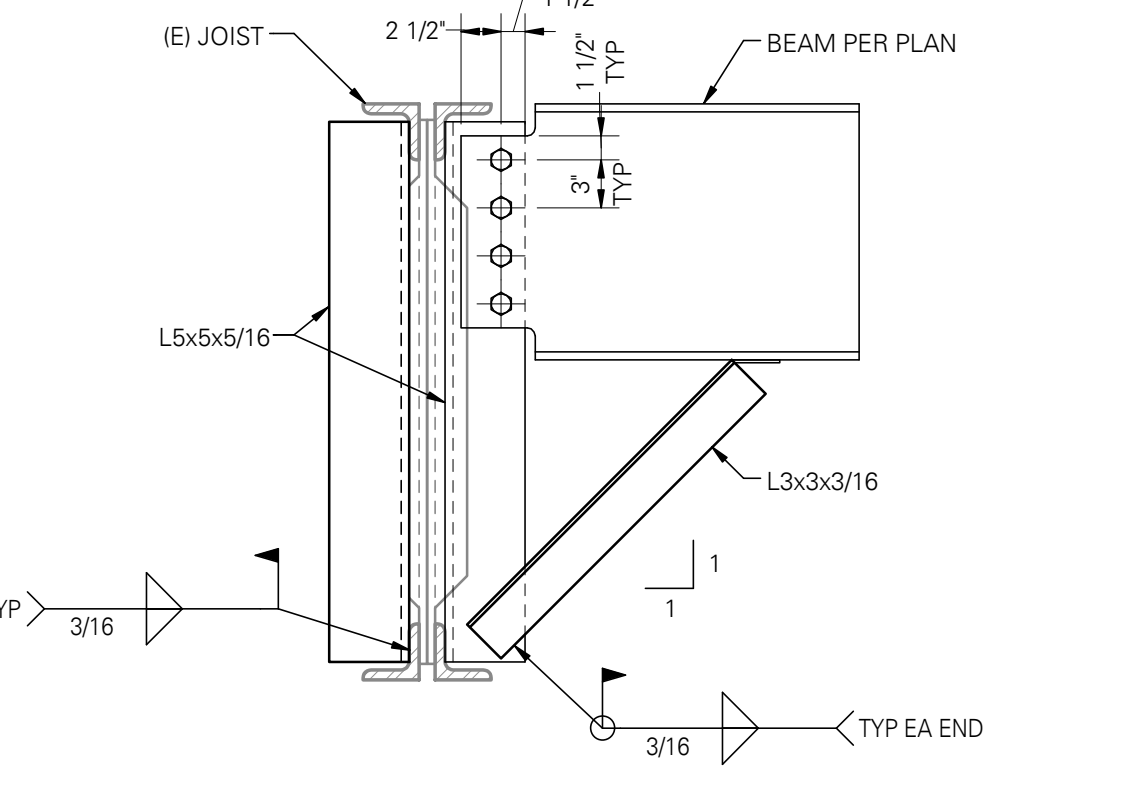
6 POST CONNECTION
SCALE: 1" = 1'-0"



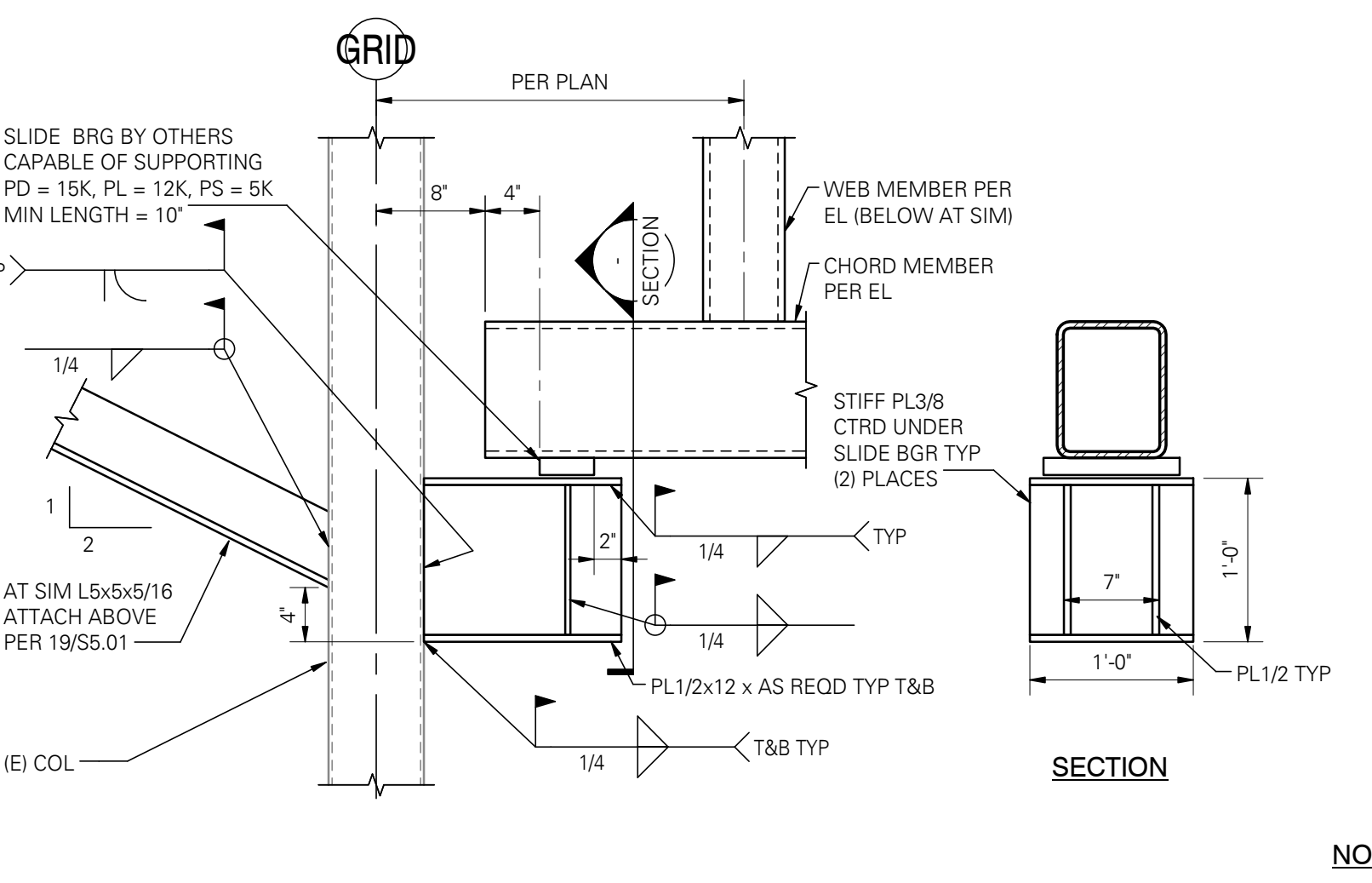
15 CUSTOM TRUSS BOTTOM CHORD WEB MEMBERS AND HANGER CONNECTION
SCALE: 1" = 1'-0"



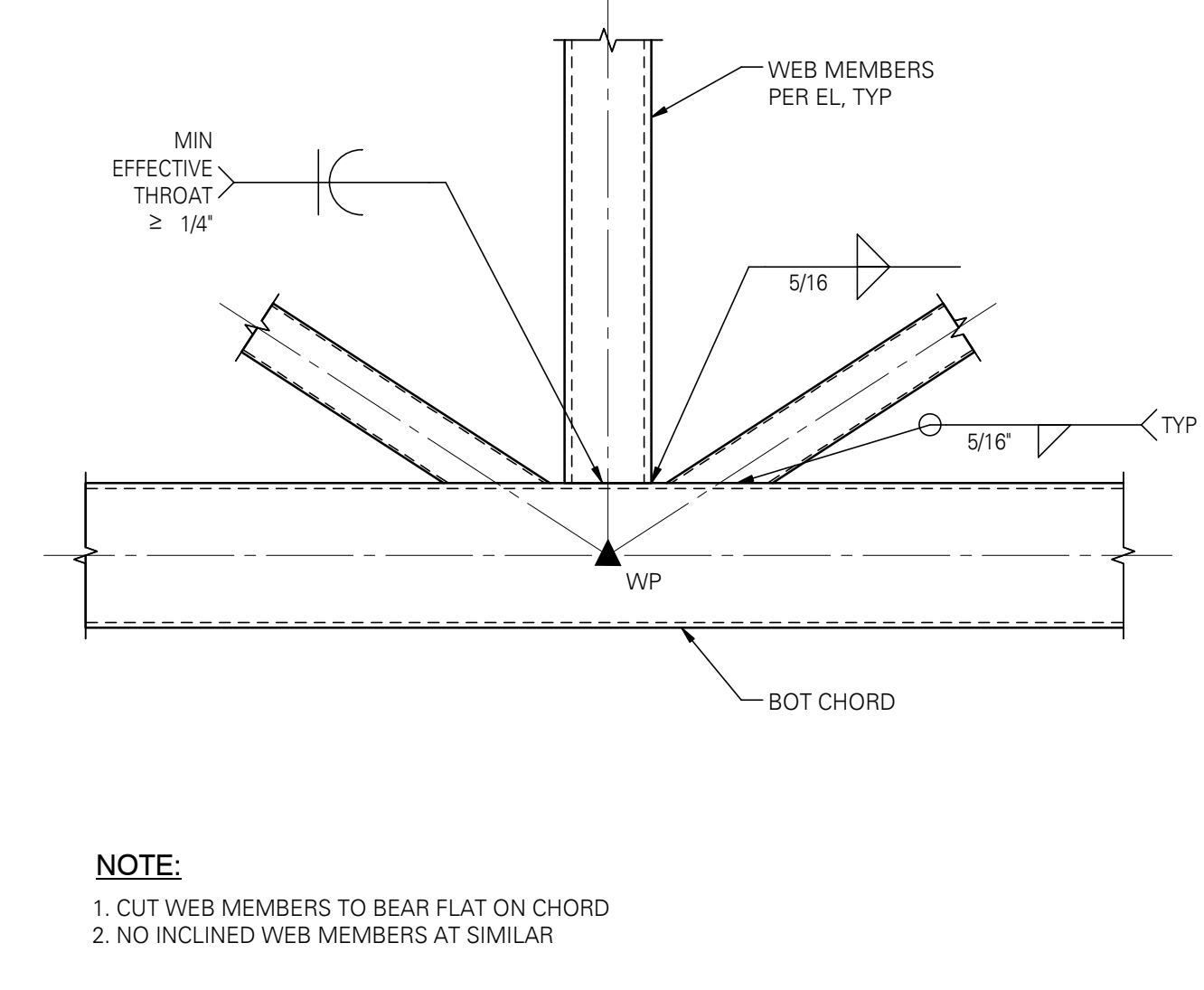
14 CUSTOM TRUSS TO COLUMN
SCALE: 1" = 1'-0"



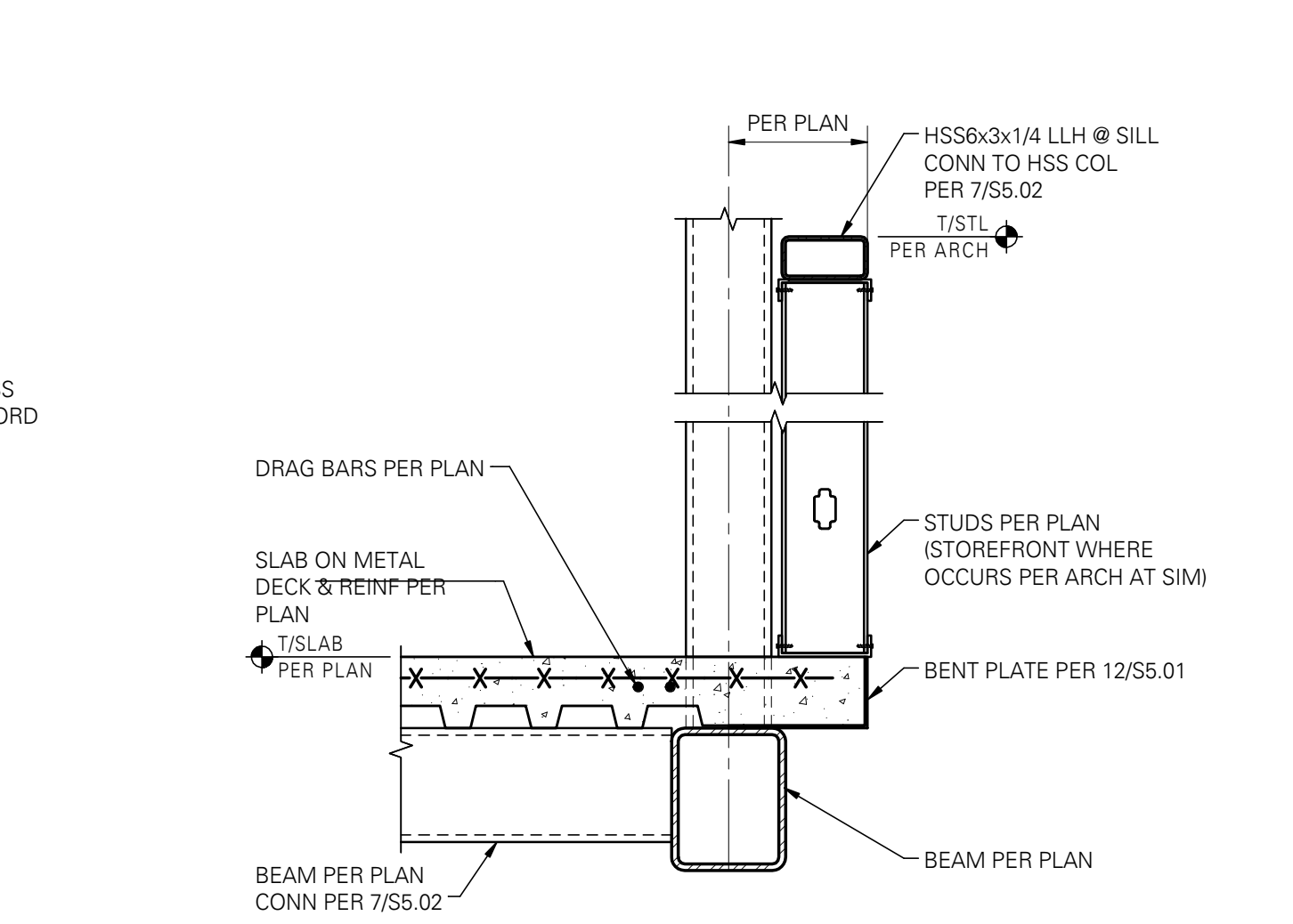
13 BEAM DETAIL
SCALE: 1" = 1'-0"



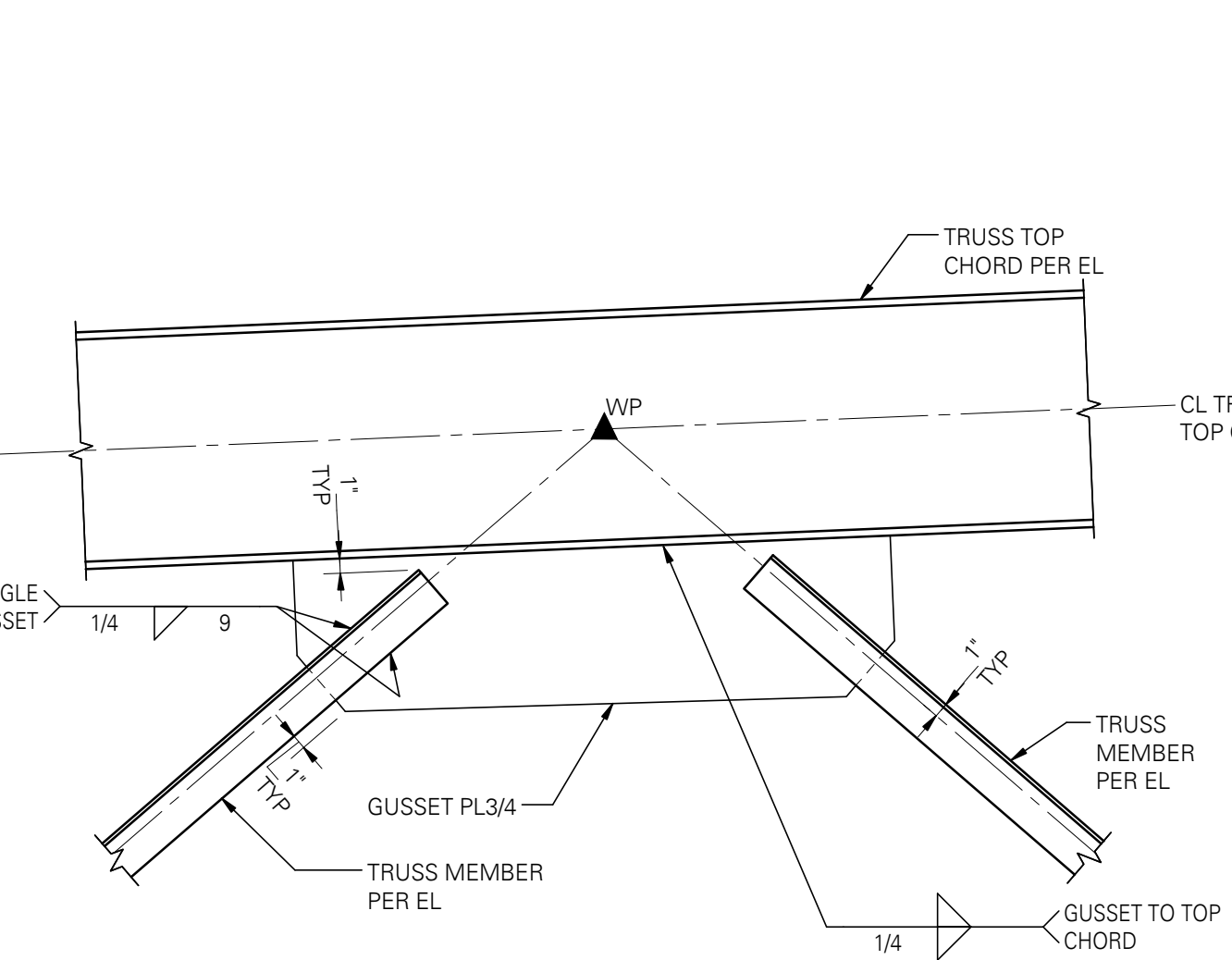
12 SKYBRIDGE AT SEISMIC JOINT
SCALE: 1" = 1'-0"



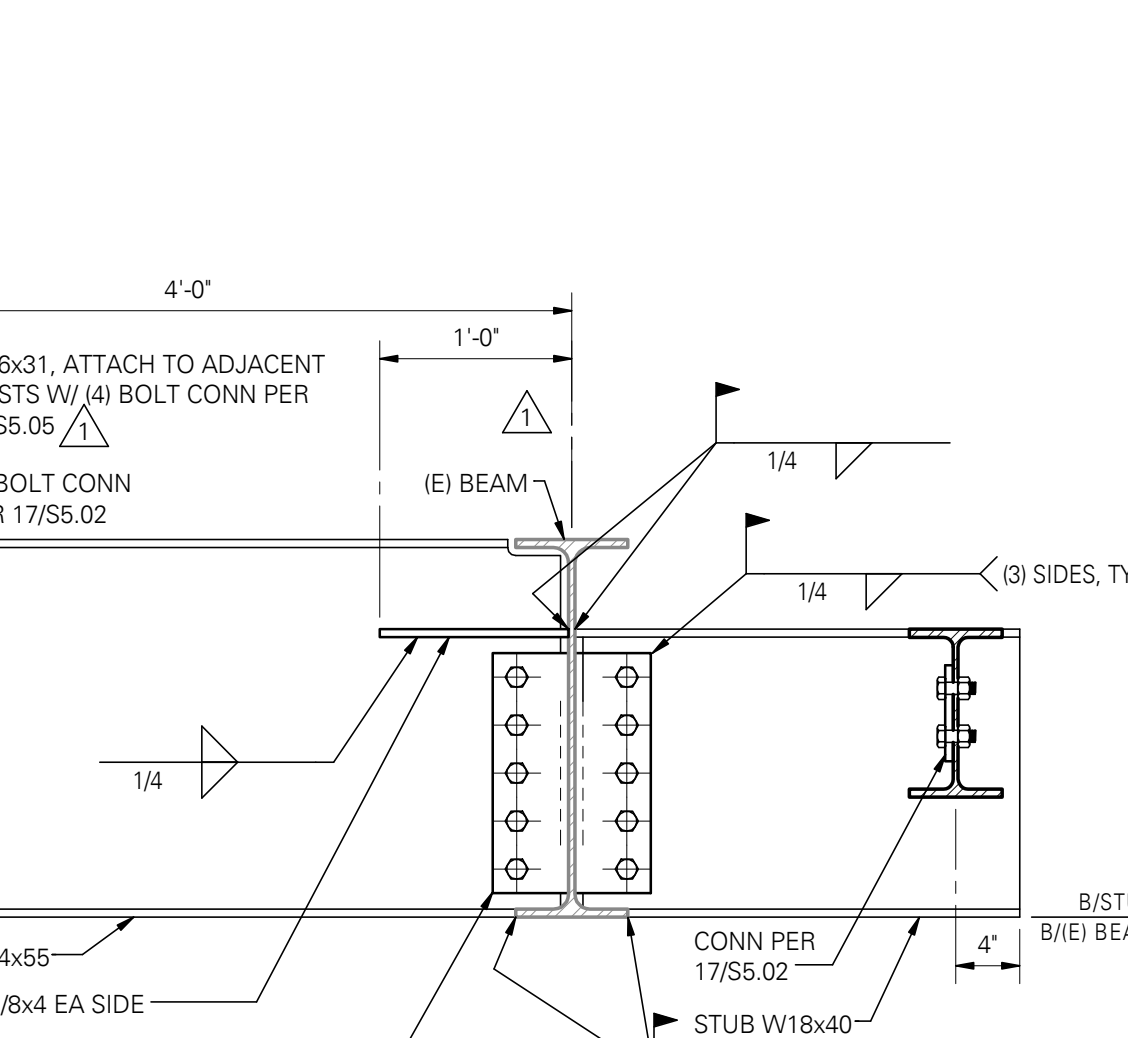
11 WEB MEMBERS TO BOTTOM CHORD
SCALE: 1" = 1'-0"



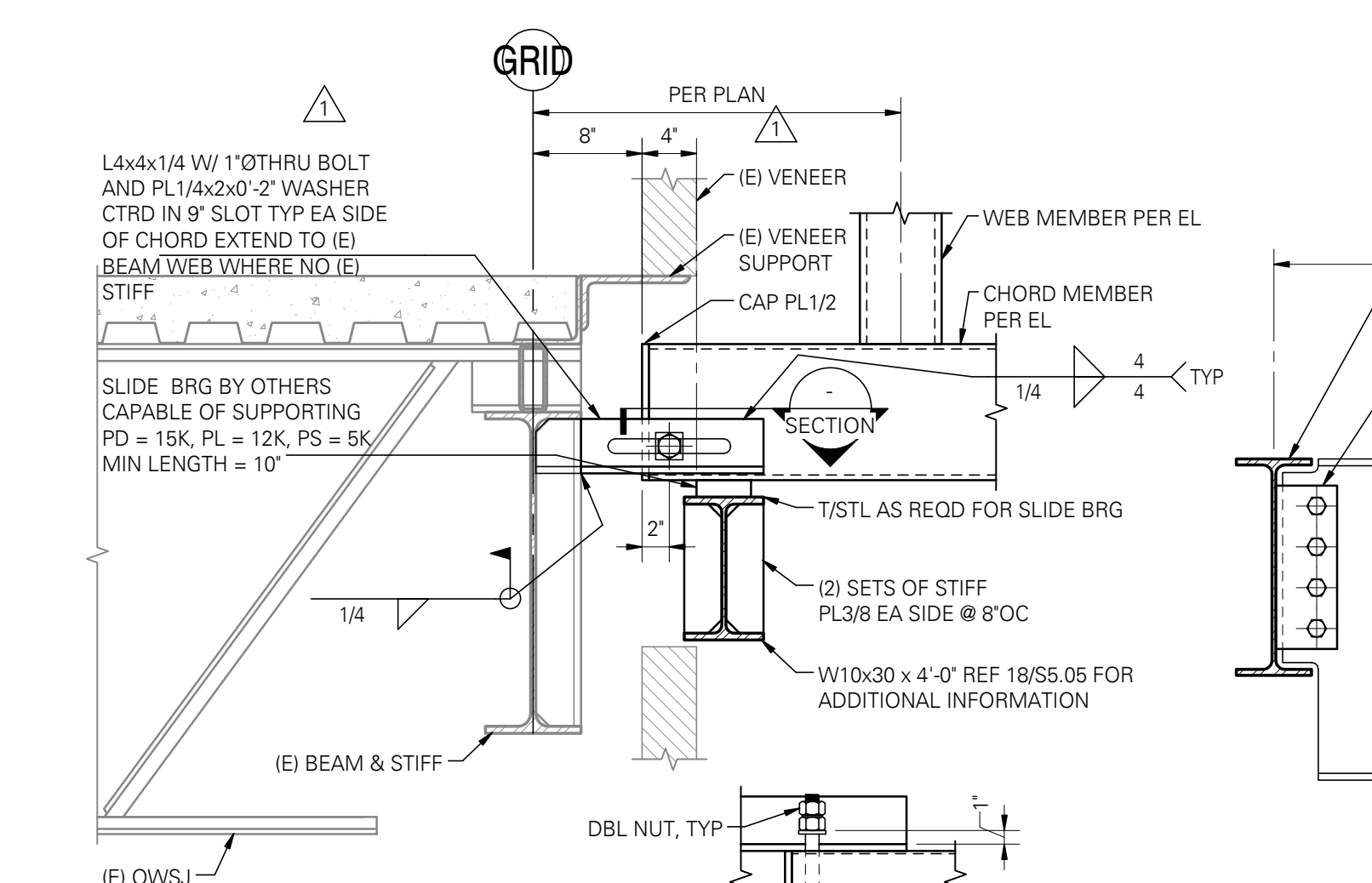
20 SKYBRIDGE FLOOR EDGE
SCALE: 1" = 1'-0"



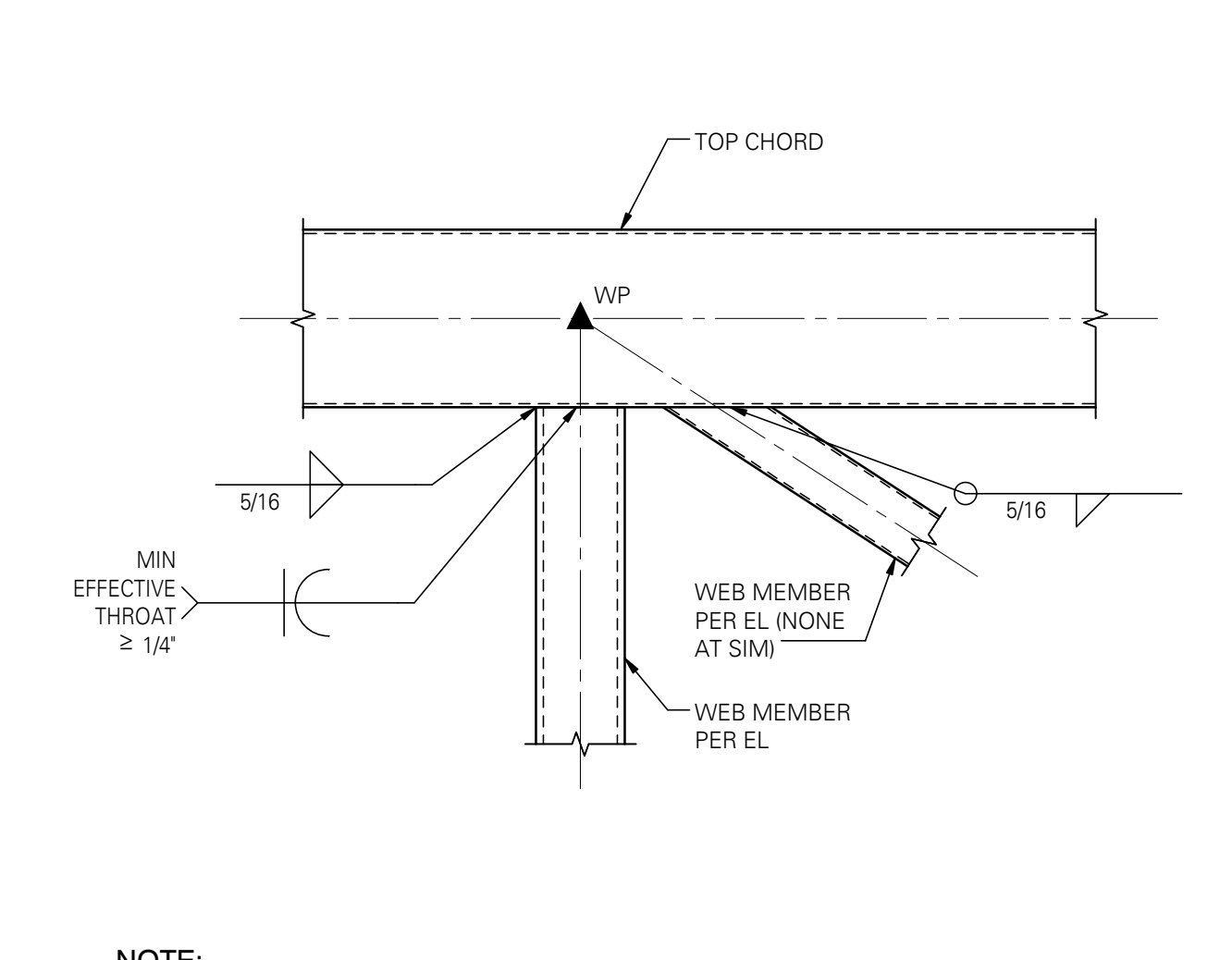
19 CUSTOM TRUSS WEB MEMBERS TO TOP CHORD
SCALE: 1" = 1'-0"



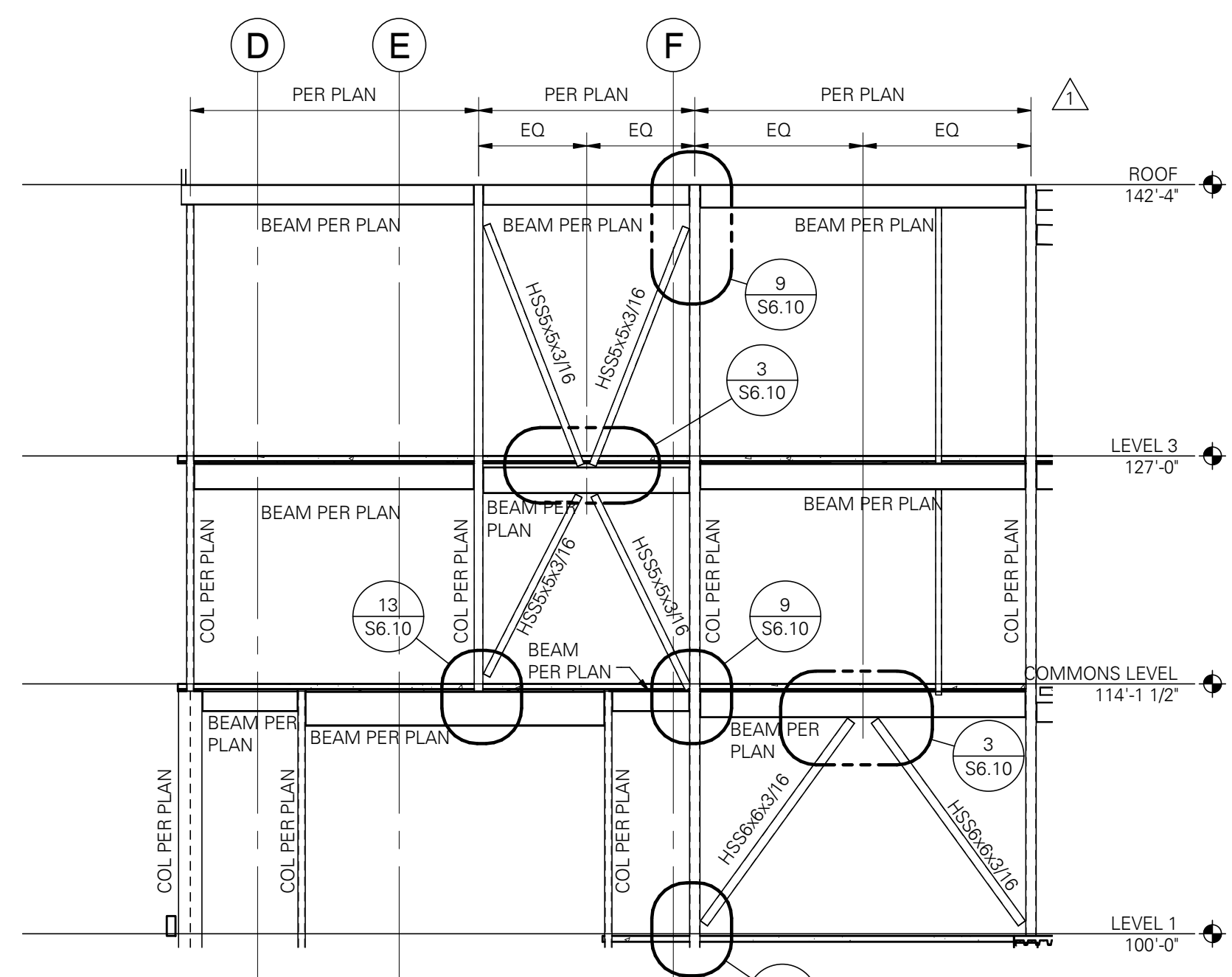
18 SECTION
SCALE: 1" = 1'-0"



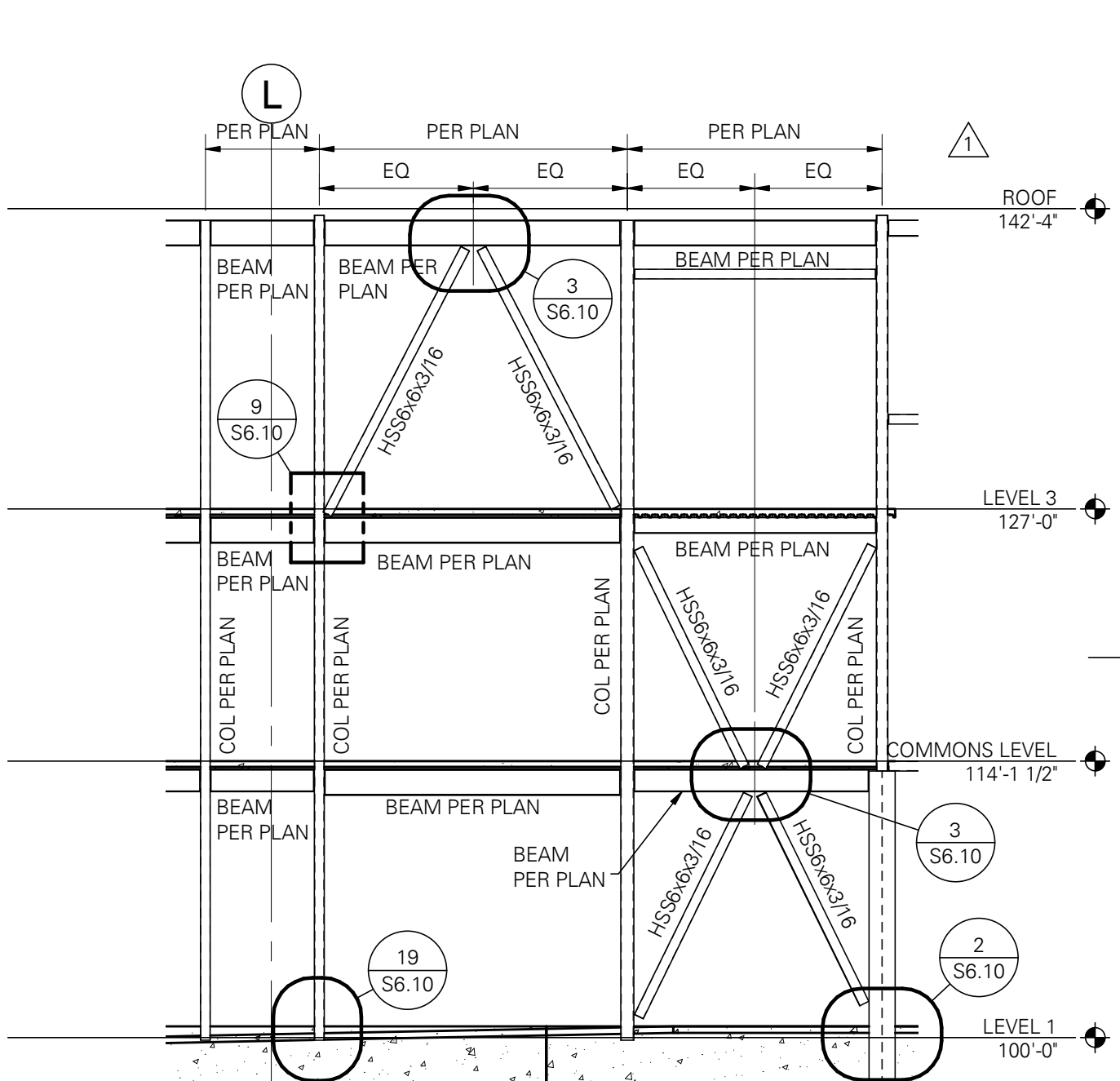
17 SKYBRIDGE AT SEISMIC JOINT
SCALE: 1" = 1'-0"



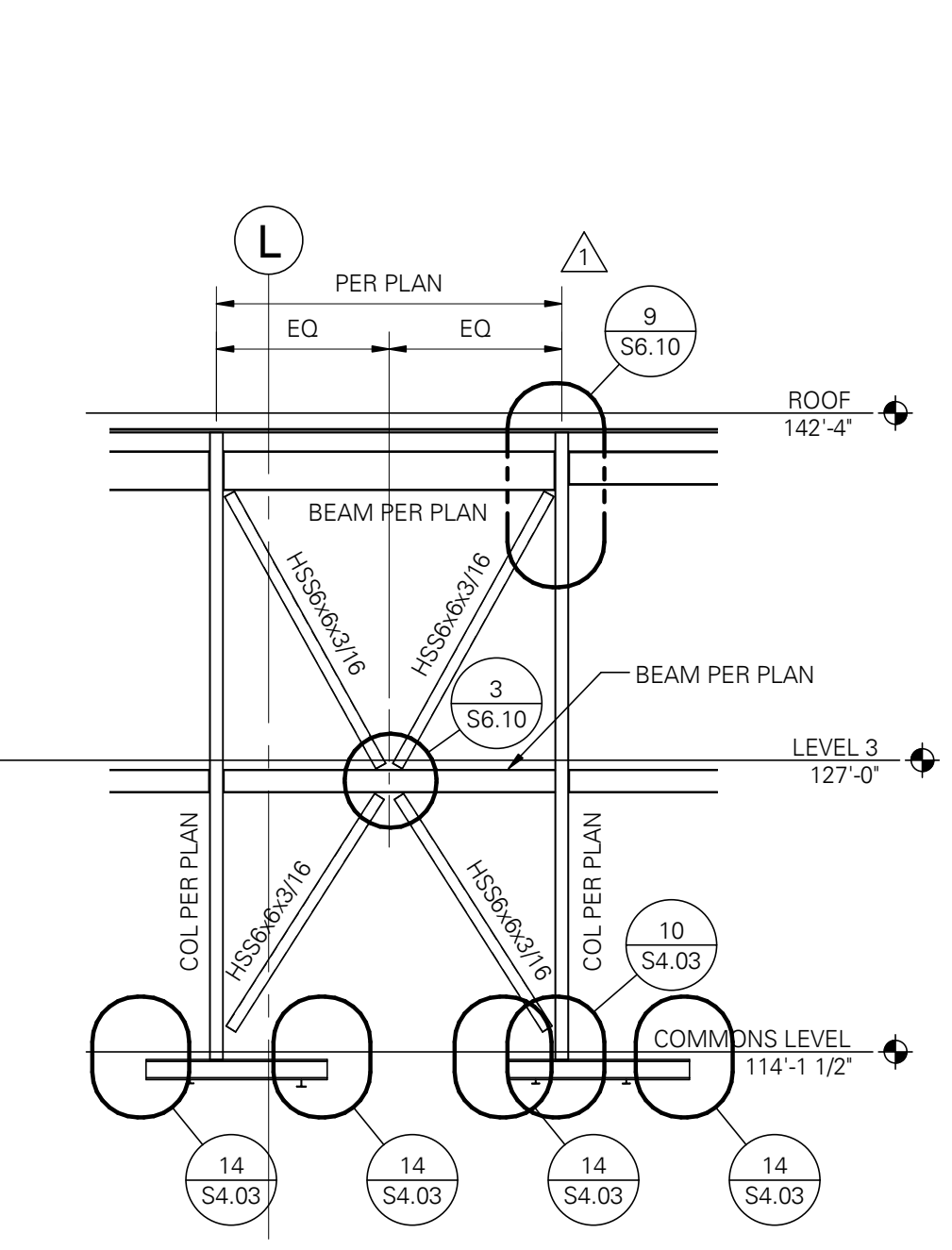
16 WEB MEMBERS TO TOP CHORD
SCALE: 1" = 1'-0"



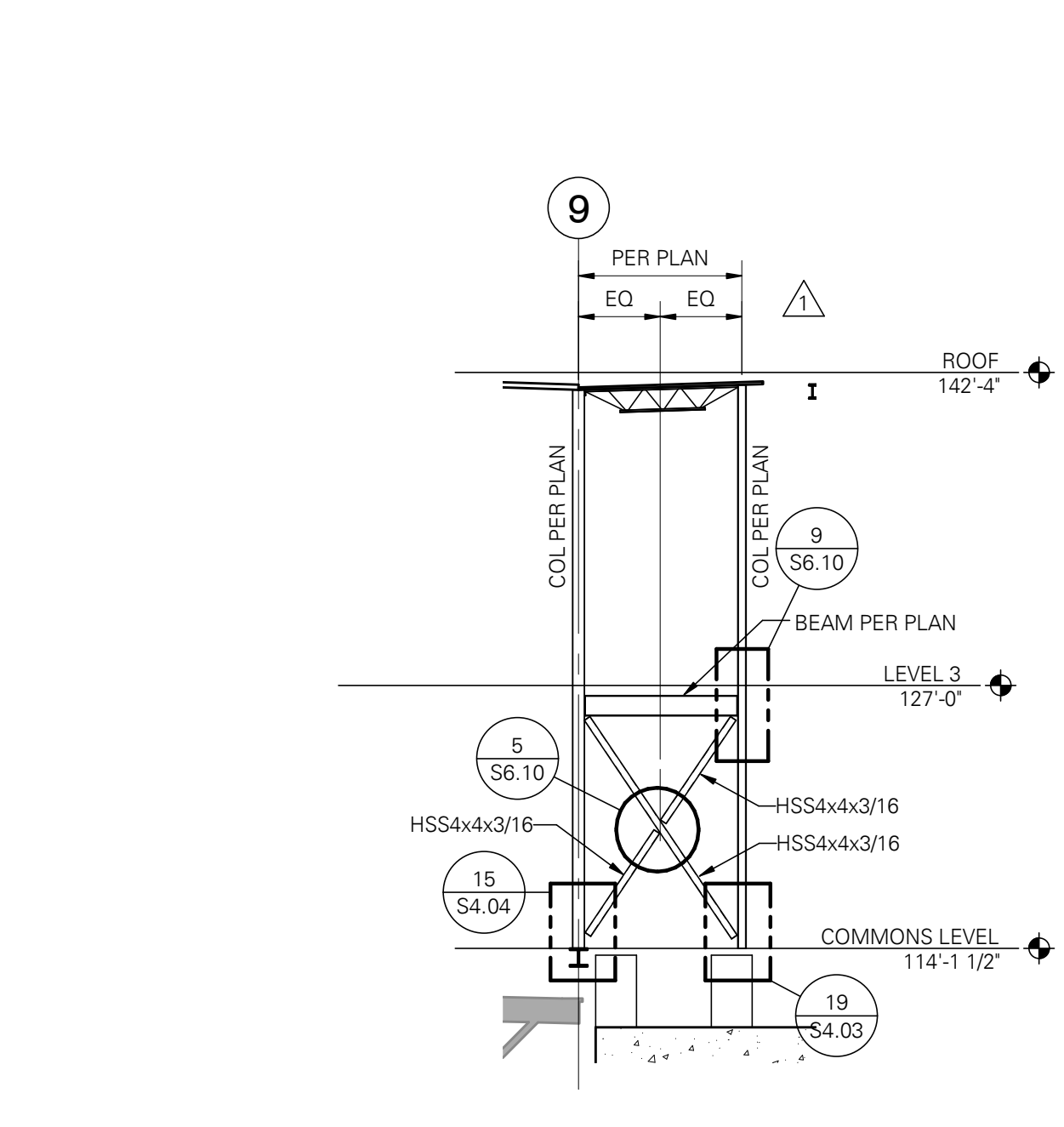
1 NORTH WALL BRACE FRAME BETWEEN GRIDS G AND H
SCALE: 1/8" = 1'-0"



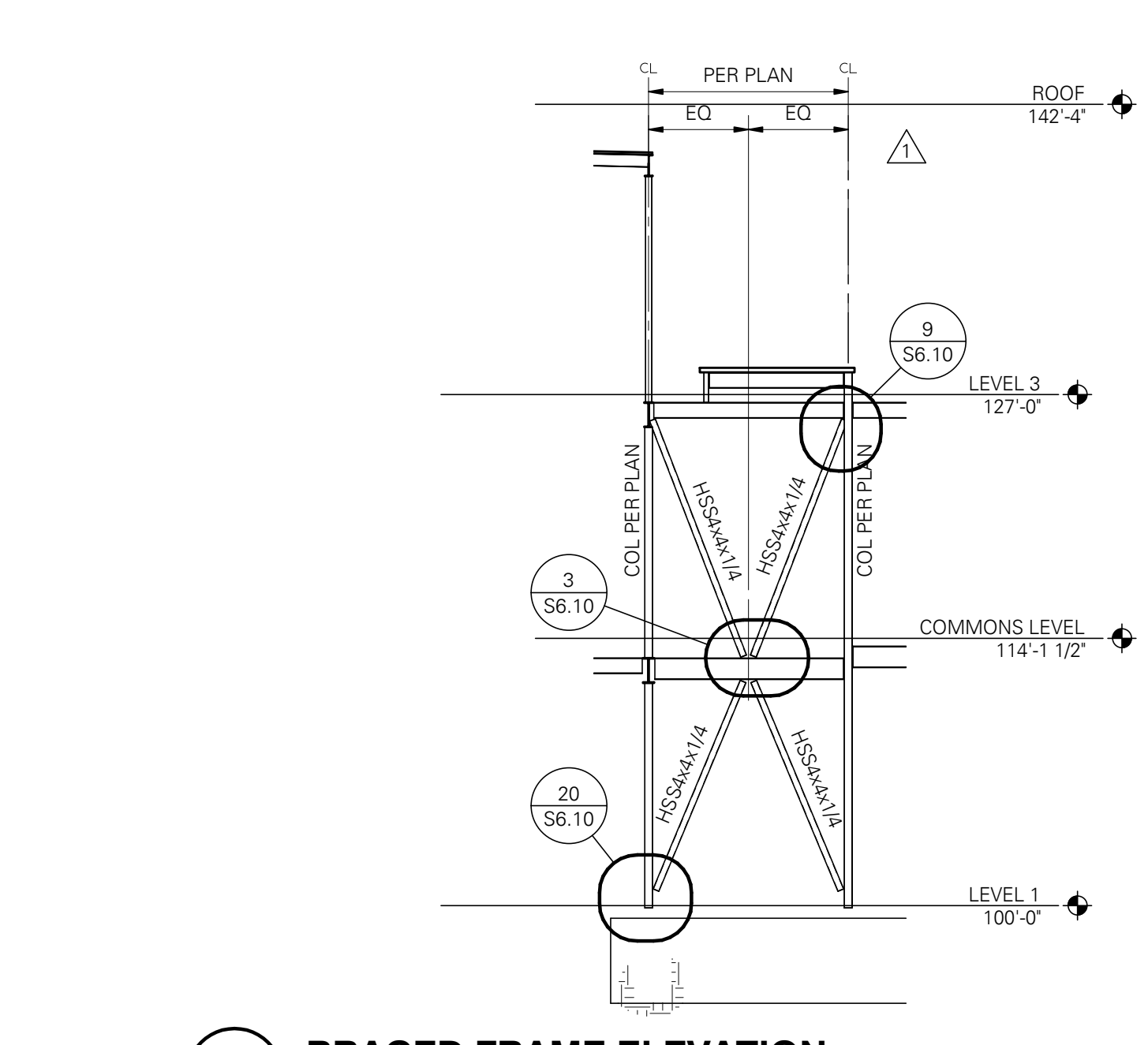
2 NORTH WALL BRACE FRAME NORTH OF GRID 6
SCALE: 1/8" = 1'-0"



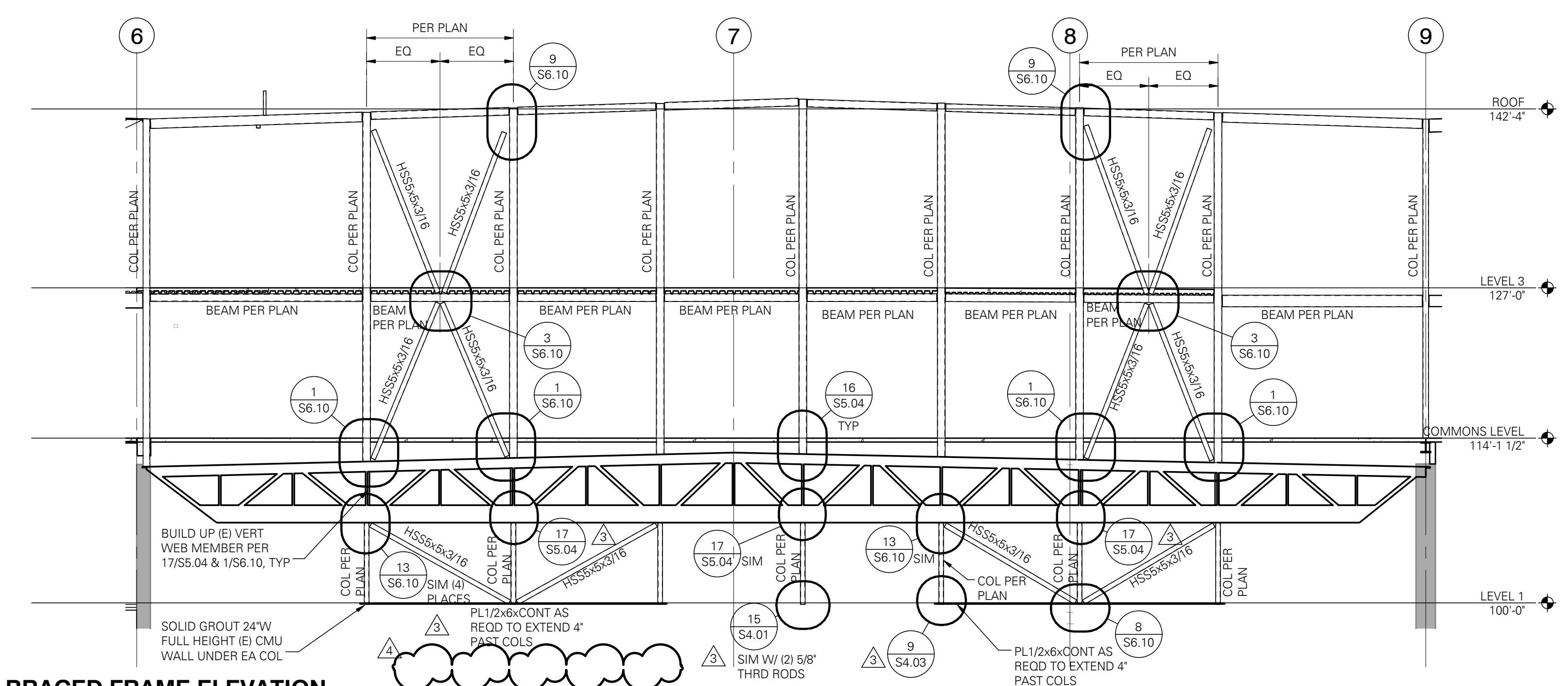
3 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



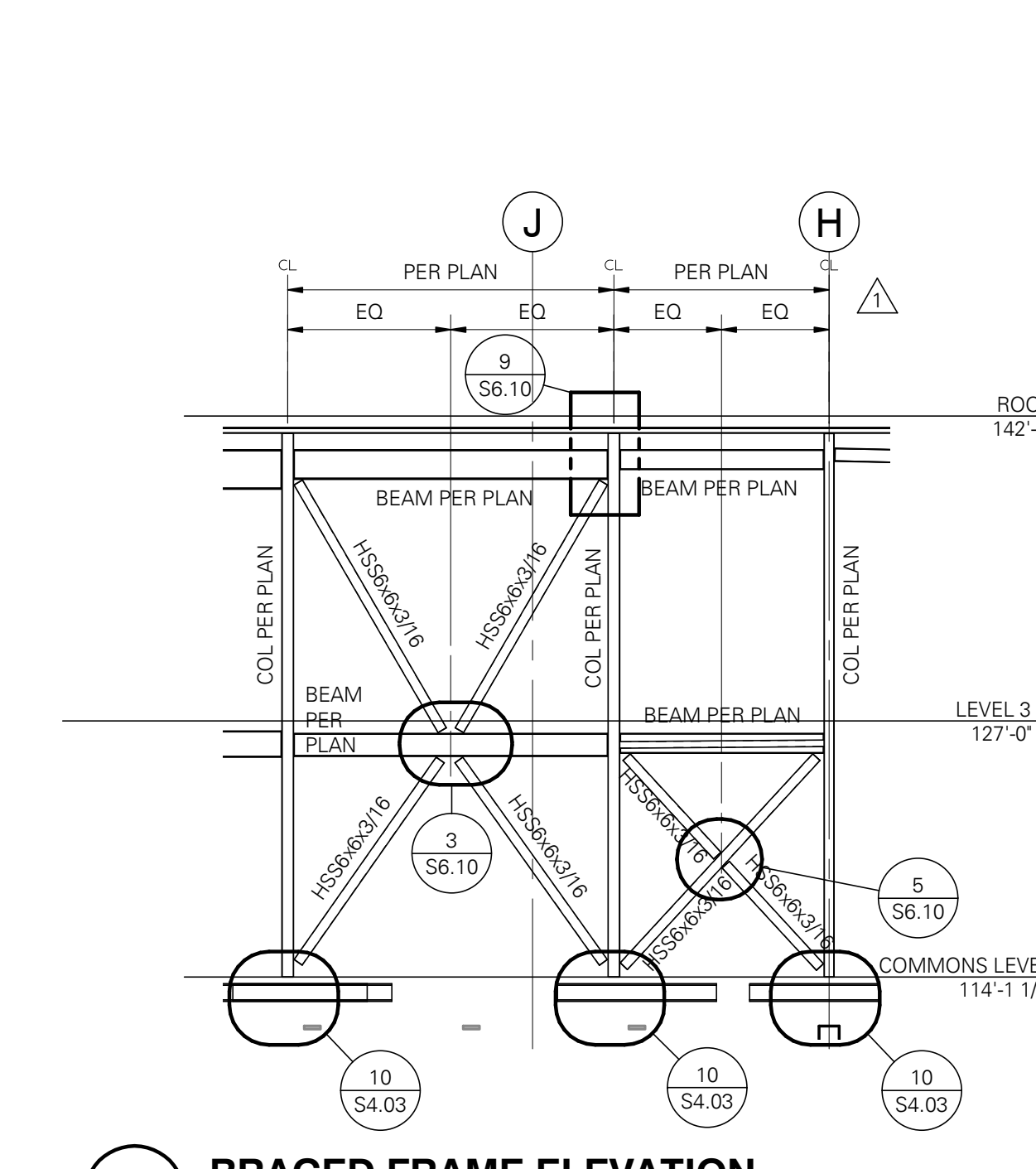
4 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



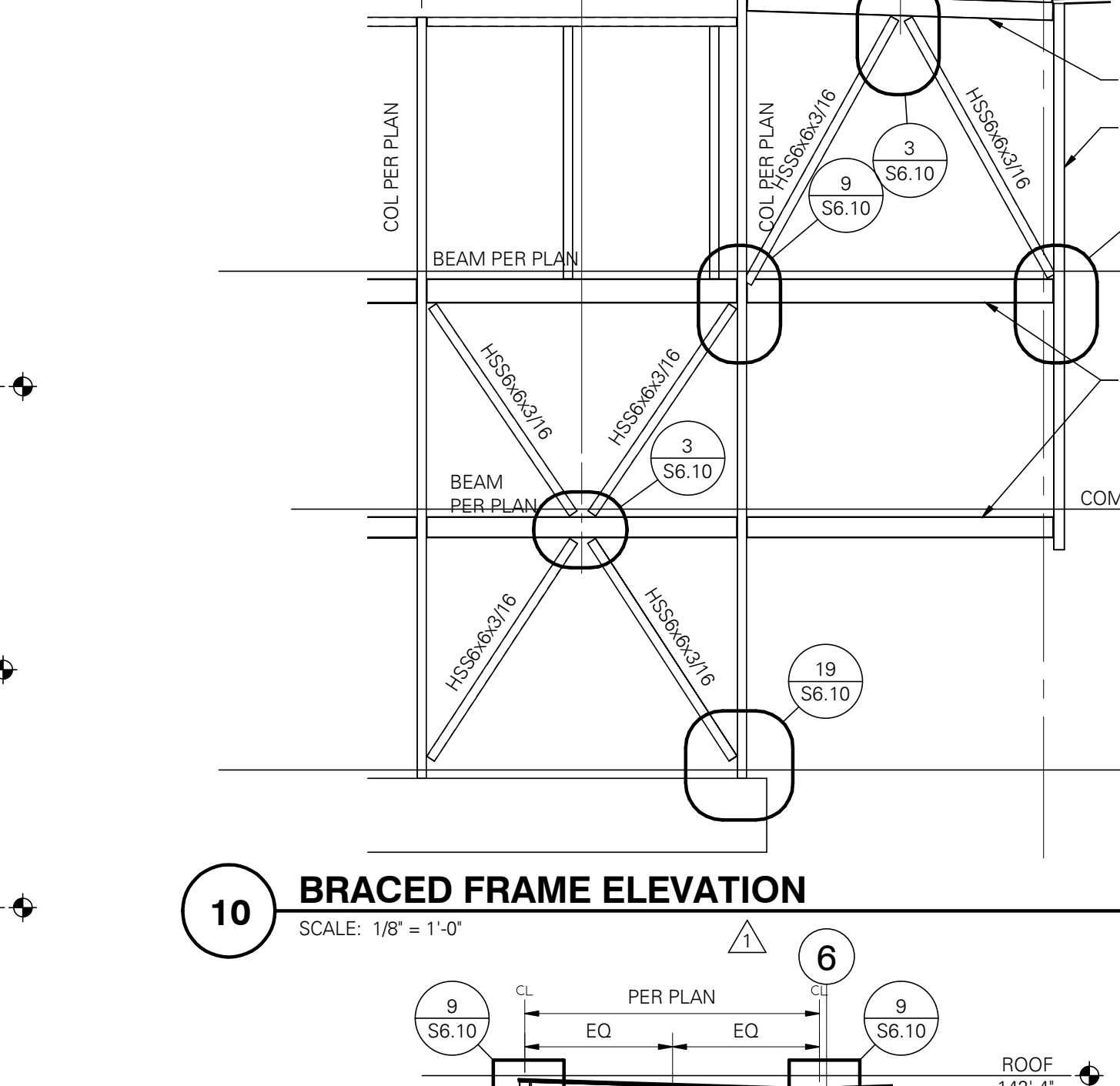
5 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



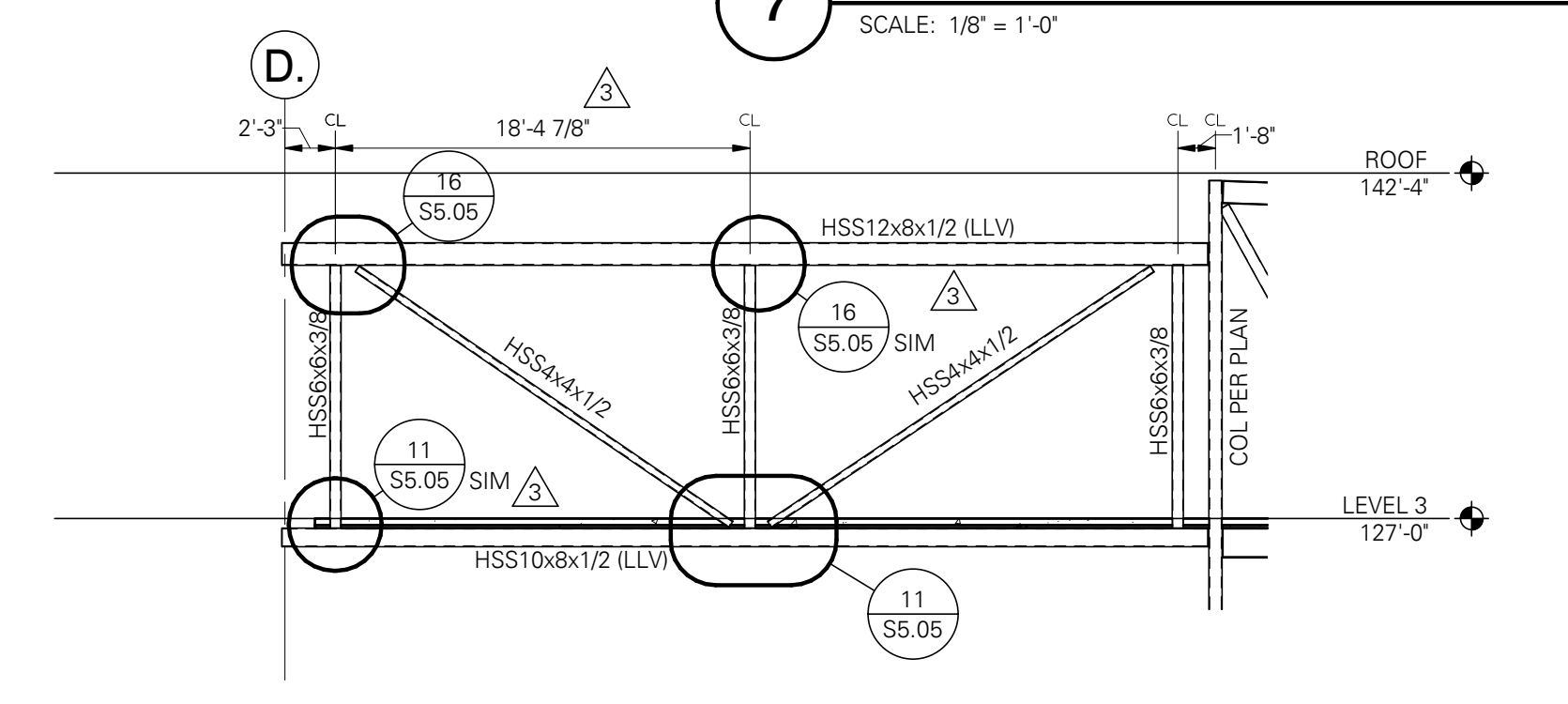
7 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



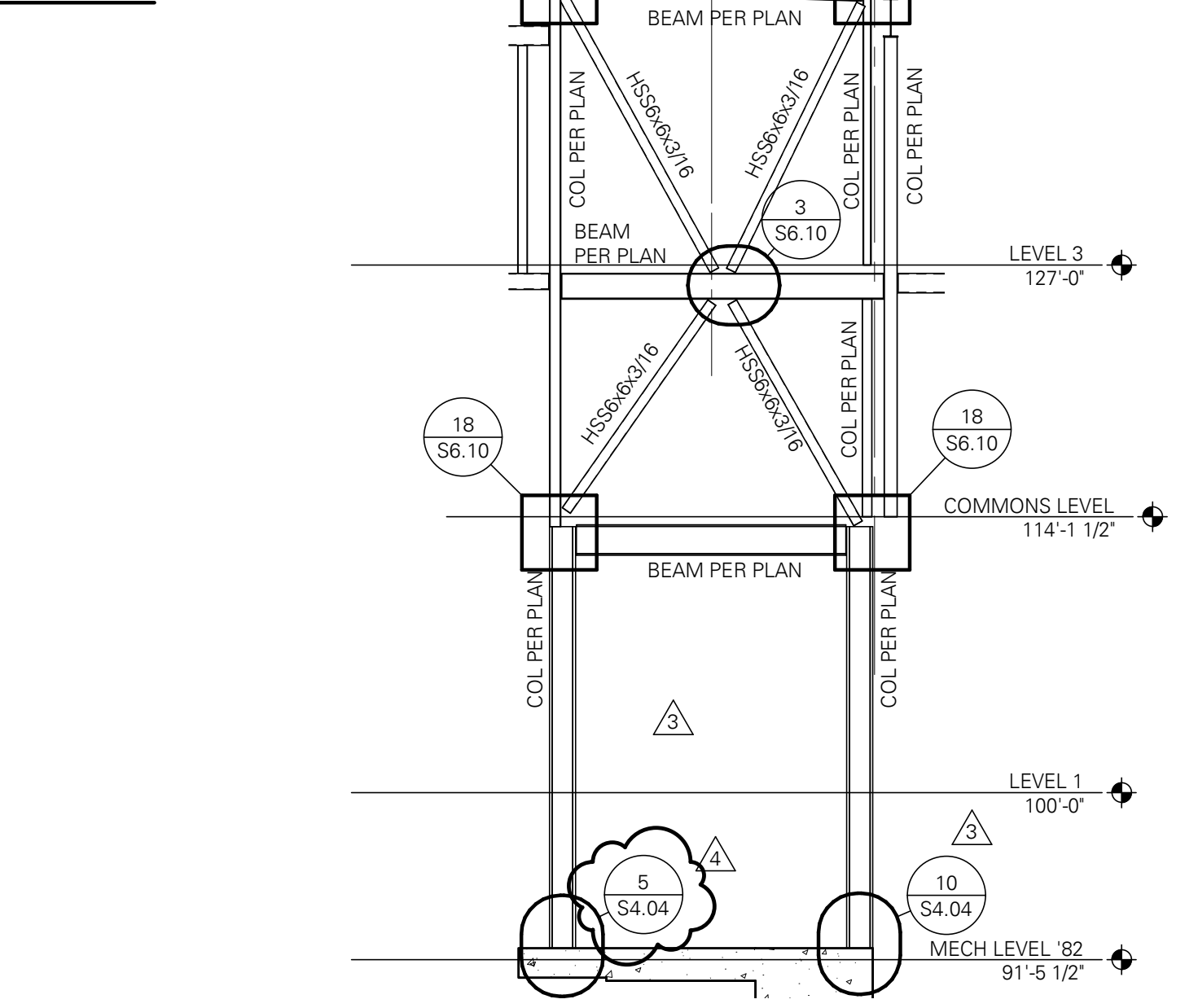
9 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



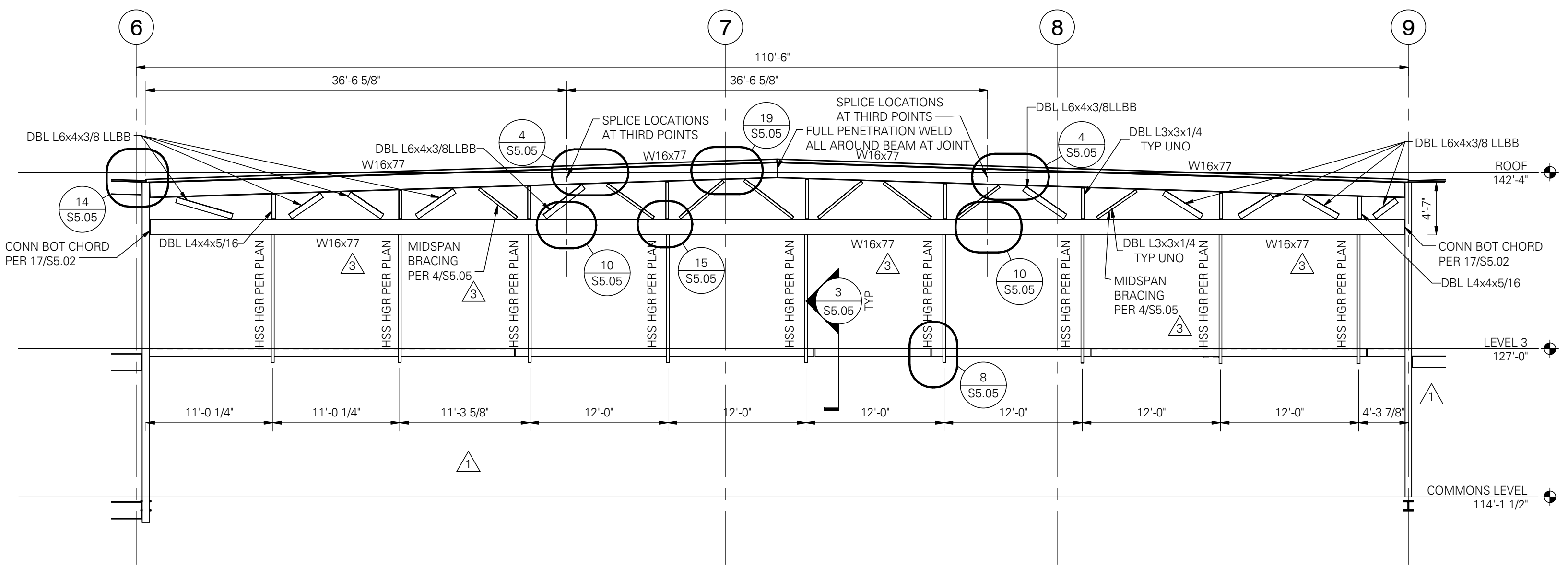
10 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



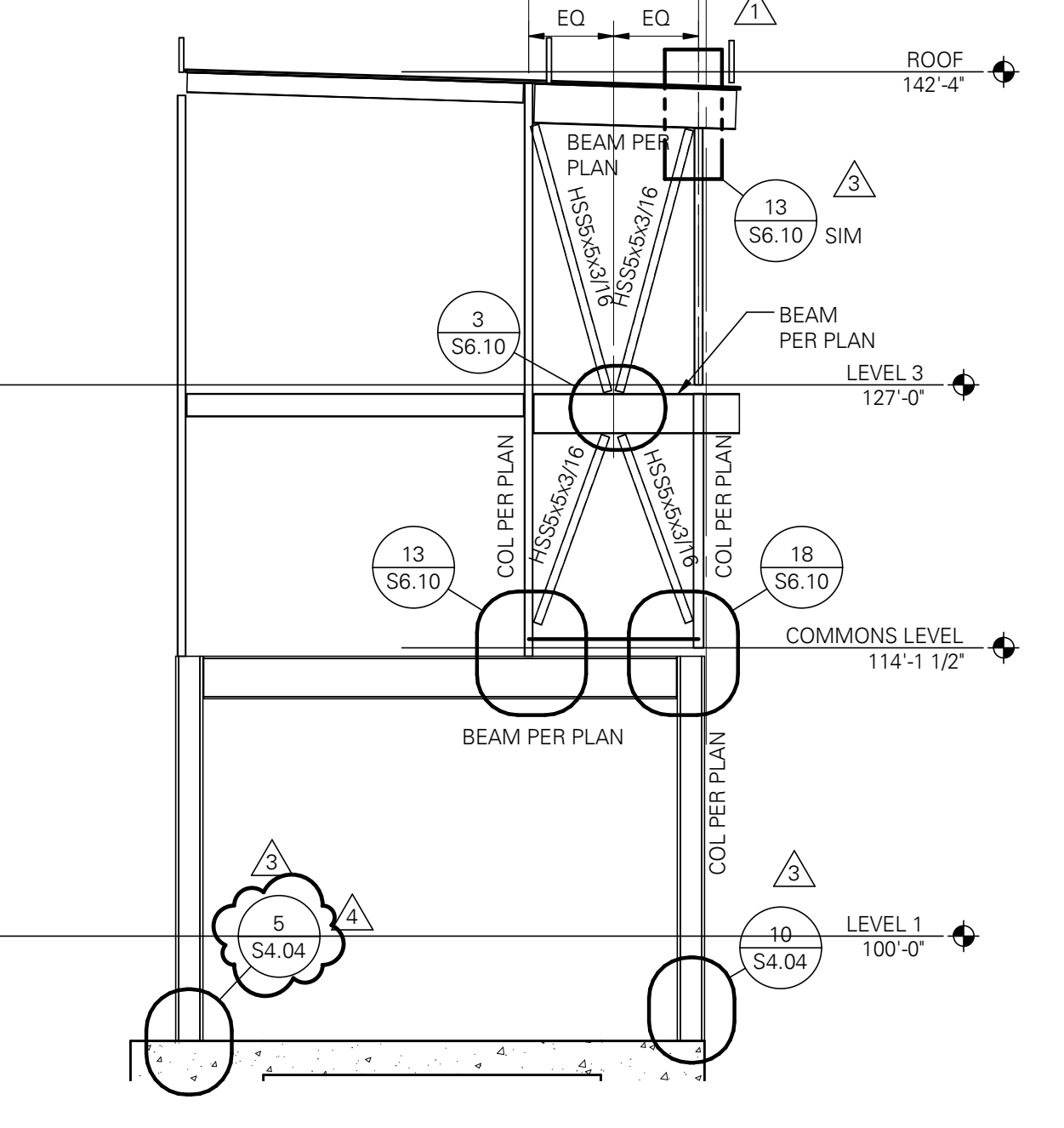
11 SKYBRIDGE TRUSS ELEVATION
SCALE: 1/8" = 1'-0"



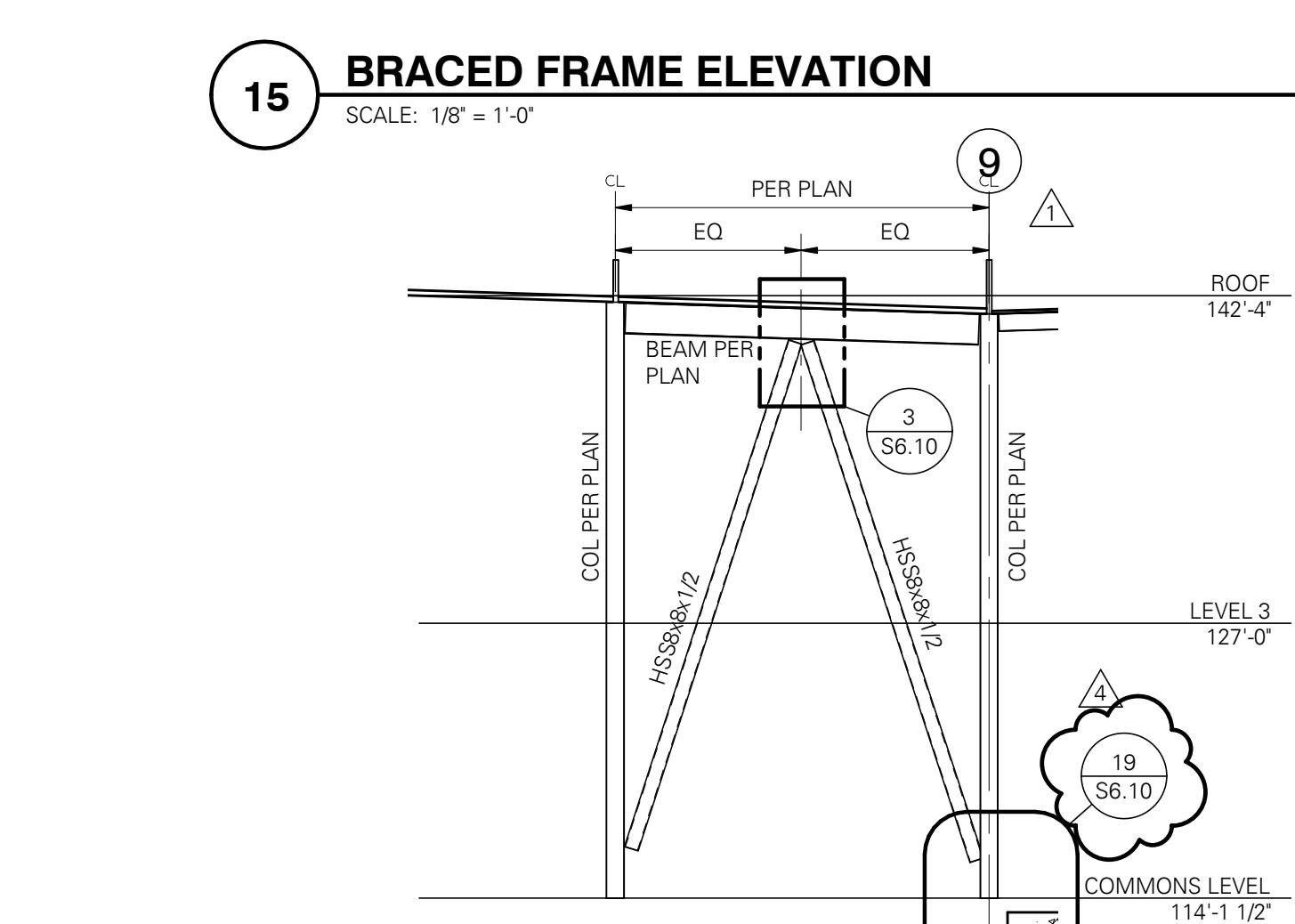
15 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



16 CUSTOM TRUSS
SCALE: 1/8" = 1'-0"



19 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"



20 BRACED FRAME ELEVATION
SCALE: 1/8" = 1'-0"

REVISONS

1 ADDENDUM 1	02-03-16
2 ADDENDUM 3	02-19-16
4 ADDENDUM 4	03-02-16



SPOKANE PUBLIC SCHOOL DISTRICT NO. 81
NORTH CENTRAL HS CAFETERIA/COMMONS ADDITION
1800 NORTH HOWARD STREET, SPOKANE, WA 99205



NO: 111-15017
DRAWN: JLJ
CHECKED: LMB
DATE: 02/19/16

BRACED FRAME ELEVATIONS
CD
S6.01