



| STEEL LINTEL SCHEDULE FOR NON-LOAD BEARING MASONRY WALLS | | | | | |
|--|------------------------------|------------------------------|------------------------------|-----------------------|-----------------|
| WALL THICKNESS | CLEAR SPAN | 4'-0" OR LESS | 4'-1" TO 6'-0" | 6'-1" TO 8'-0" | 8'-1" TO 10'-0" |
| 4" CMU OR BRICK | L3 1/2 x 3 1/2x5/16 | L4 x 3 1/2x5/16 (LLV) | L5 x 3 1/2x5/16 (LLV) | L5 x 3 1/2x5/16 (LLV) | |
| 6" CMU | (2) L3 1/2 x 2 1/2x3/8 (LLV) | (2) L3 1/2 x 2 1/2x3/8 (LLV) | (2) L3 1/2 x 2 1/2x3/8 (LLV) | WT7x11 | |
| 8" CMU | (2) L3 1/2 x 3 1/2x5/16 | (2) L3 1/2 x 3 1/2x5/16 | (2) L5 x 3 1/2x5/16 (LLV) | W8X10 + 1/4" x 7" PL | |
| 10" CMU | W8X10 + 1/4" x 9" PL | W8X10 + 1/4" x 9" PL | W8X10 + 1/4" x 9" PL | | |
| 12" CMU | W8X10 + 1/4" x 11" PL | W8X10 + 1/4" x 11" PL | W8X10 + 1/4" x 11" PL | | |

NOTE: THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL STEEL LINTELS IN ALL MASONRY WALLS, INCLUDING THE FOLLOWING (REF. CONTRACT DOCUMENTS):
 • ABOVE ALL METAL FRAMES IN MASONRY WALLS.
 • ABOVE ALL NEW OPENINGS, PASSAGES, ROLL-UP OR OVERHEAD DOORS IN MASONRY WALLS.
 • ABOVE ALL NEW DUCTWORK PASSING THROUGH MASONRY WALLS.
 • ABOVE ALL NEW CONDUITS, CABLES, CONDUCTORS, LOUVERS, ACCESS PANELS, BRICK GRILLES, WINDOWS, ETC.
 • ALL LOCATIONS WHERE NOTED ON THE PLANS AND/OR SECTION SIZES TO BE INDICATED IN THE SCHEDULE ABOVE. LENGTH TO BE FULL OPENING AND A MINIMUM 8" BEARING ON EACH END.
 • ALL LOOSE LINTELS AT OPENINGS 8" OR LESS FROM STEEL COLUMN SHALL BE ATTACHED WITH CLIP ANGLES TO COLUMNS.

16) MASONRY WALL LINTEL SCHEDULE

1/2" = 1'-0"

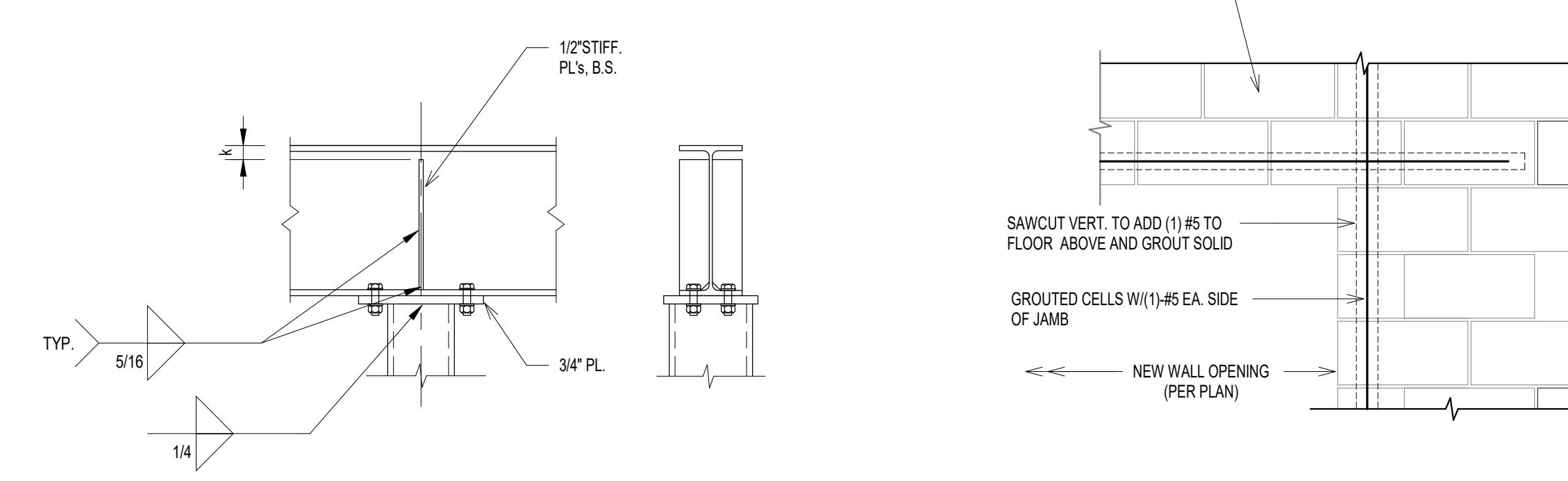
| EXTERIOR CMU MASONRY WALL REINFORCING SCHEDULE | | | | |
|--|-----------------|----------------------|-----------------|----------------------|
| WALL THICKNESS | UNBRACED HEIGHT | VERTICAL REINFORCING | UNBRACED HEIGHT | VERTICAL REINFORCING |
| 6" CMU | 6'-0" MAXIMUM | NONE | 12'-0" MAXIMUM | #4 AT 48" |
| | 6'-1" - 9'-6" | #4 AT 48" | 12'-1" - 14'-0" | #4 AT 32" |
| | 9'-7" - 12'-0" | #5 AT 48" | 14'-1" - 16'-0" | #4 AT 24" |
| | 12'-1" - 16'-0" | #5 AT 24" | 16'-1" - 18'-0" | #5 AT 32" |
| | | | 18'-1" - 20'-0" | #5 AT 24" |
| | | | 20'-1" - 24'-0" | #5 AT 16" |

THE TABLES ARE FOR TYPICAL CONDITIONS ONLY AND SHALL APPLY ONLY WHEN SPECIFIC REINFORCING DETAILS ARE NOT SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. THE REINFORCING SHOWN IN THE TABLES SHALL BE CONSIDERED THE MINIMUM VERTICAL AND HORIZONTAL REINFORCING. BRACING DETAILS AND MASONRY ATTACHMENT TO THE STRUCTURE WHICH IS NOT ADDRESSED BY THIS SCHEDULE OR STRUCTURAL DETAILS. SEE CMU GENERAL NOTES FOR MINIMUM REINFORCEMENT REQUIRED AT CORNERS, CONTROL JOINTS, ENDS OF WALLS, AND OPENINGS.

| INTERIOR CMU MASONRY WALL REINFORCING SCHEDULE | | | | |
|--|-------------------|----------------------|-----------------|----------------------|
| WALL THICKNESS | UNBRACED HEIGHT | VERTICAL REINFORCING | UNBRACED HEIGHT | VERTICAL REINFORCING |
| 4" CMU | 7'-0" MAXIMUM HT. | NONE | 16'-0" MAXIMUM | NONE |
| | 12'-0" MAXIMUM | NONE | 19'-1" - 24'-0" | #4 AT 48" |
| | 12'-1" - 18'-0" | #4 AT 48" | 24'-1" - 28'-0" | #5 AT 48" |
| 10" CMU | 20'-0" MAXIMUM | NONE | 25'-0" MAXIMUM | NONE |
| | 20'-1" - 24'-0" | #4 AT 48" | 25'-1" - 30'-0" | #4 AT 48" |
| | 24'-1" - 30'-0" | #5 AT 48" | 30'-1" - 35'-0" | #5 AT 48" |

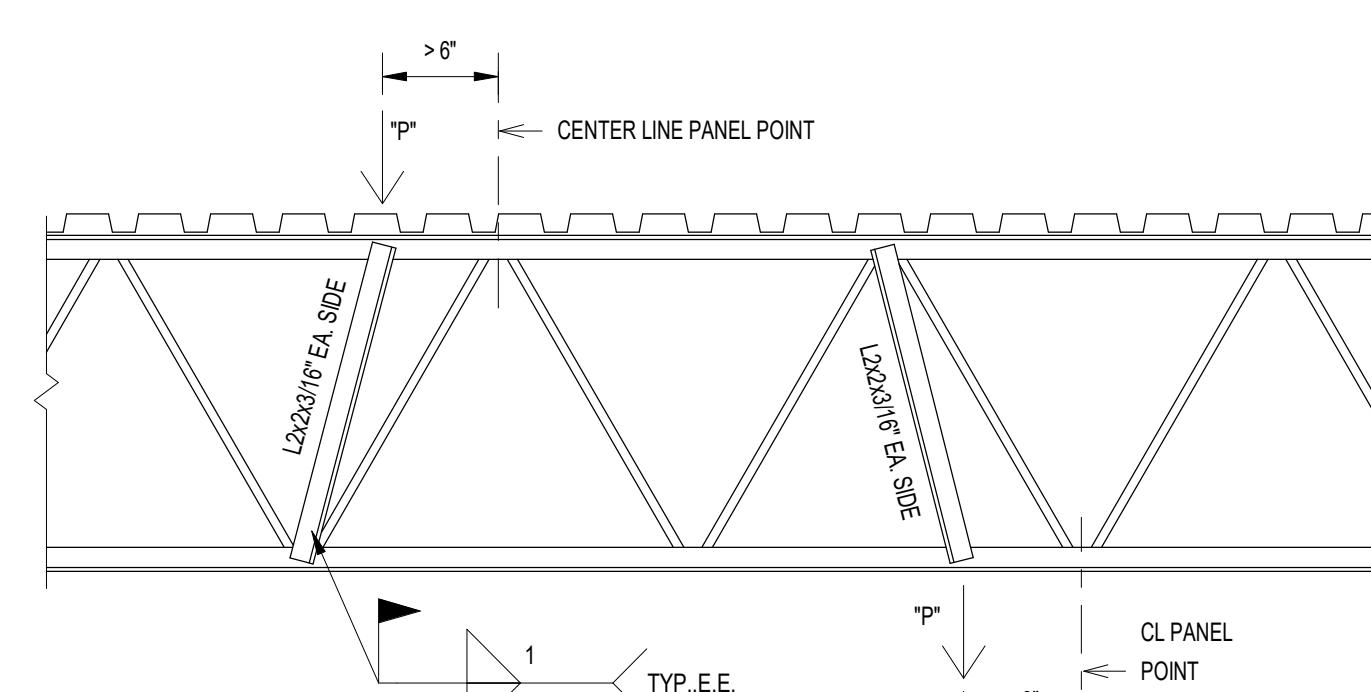
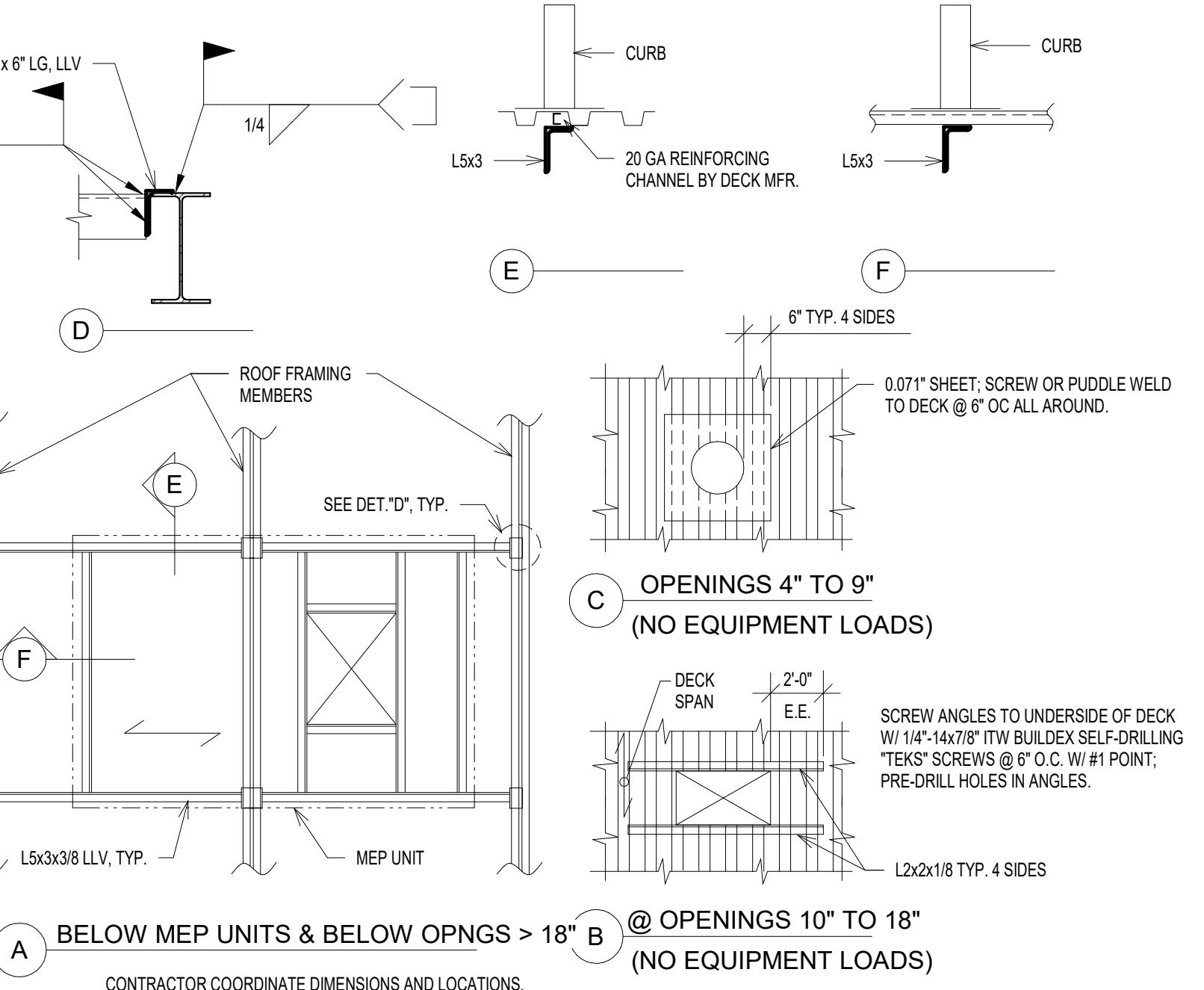
15) MASONRY WALL REINF SCHEDULE

1/2" = 1'-0"



12) BEAM OVER PIPE COLUMN CONNECTION

3/4" = 1'-0"



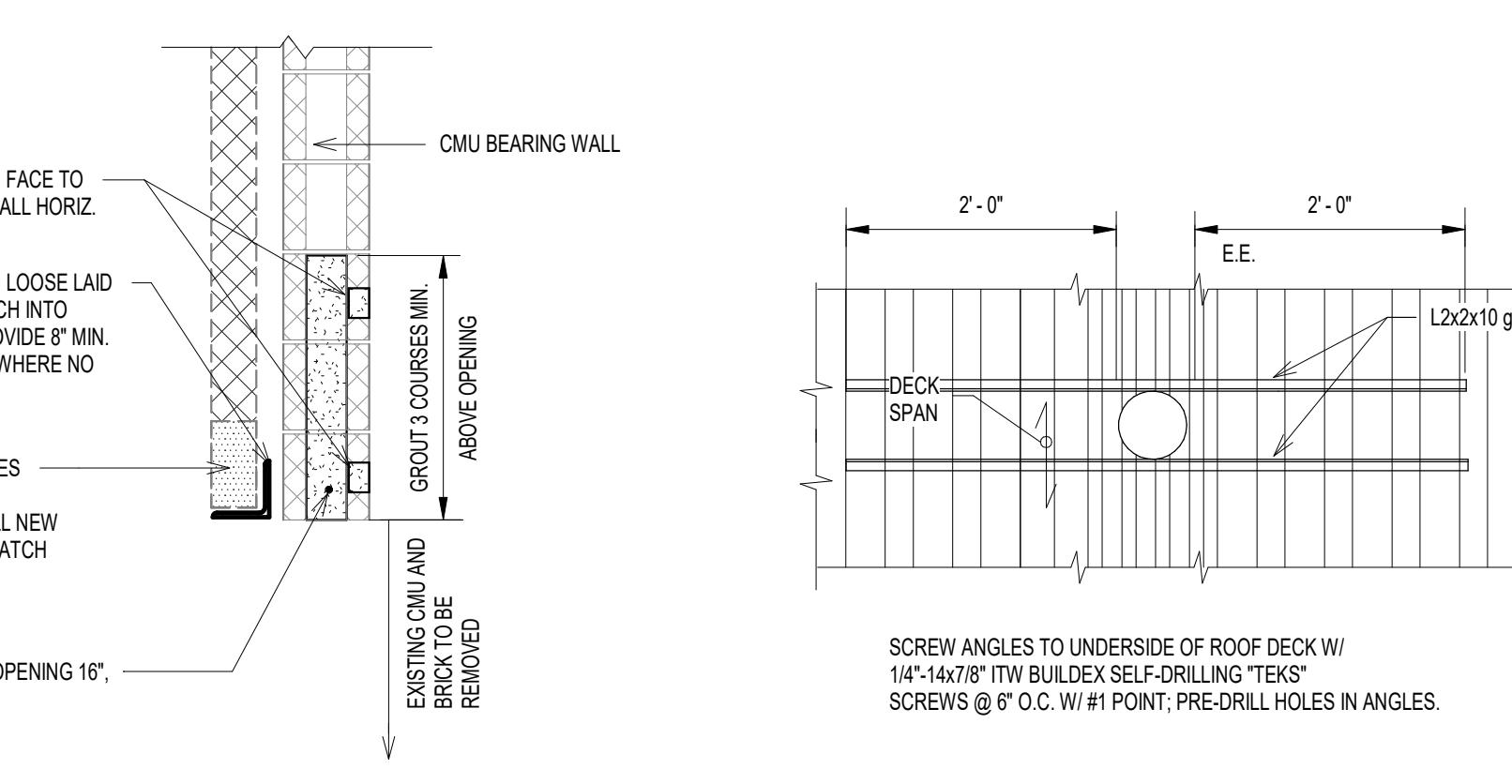
NOTES:
 1. INSTALL L2x2 STIFFENER ANGLES PER THIS DETAIL AT LOCATIONS WHERE CONCENTRATED LOADS >150 POUNDS ARE ATTACHED TO THE TOP OR BOTTOM CHORDS OF JOISTS AT LOCATIONS > 3' TO THE CLOSEST ADJACENT PANEL POINT.
 2. INDIVIDUAL CONCENTRATED LOADS SHALL NOT EXCEED THE FOLLOWING:

| 'K' SERIES JOISTS | MAX. PERMITTED JOIST DEPTH | MAX. PERMITTED CONC. LOAD |
|-------------------|----------------------------|---------------------------|
| 8" TO 12" | 200# | 300# |
| 14" TO 16" | 400# | |
| 18" TO 20" | | 400# |
| 22" TO 26" | 500# | |
| 28" TO 30" | 600# | |

3. NO MORE THAN TWO CONCENTRATED LOADS > MAX. LOAD #A13 MAY BE ATTACHED TO ANY ONE JOIST.
 4. CONCENTRATED LOADS > MAX. LOAD #A13 MUST LOCATE AT LEAST 3' APART.

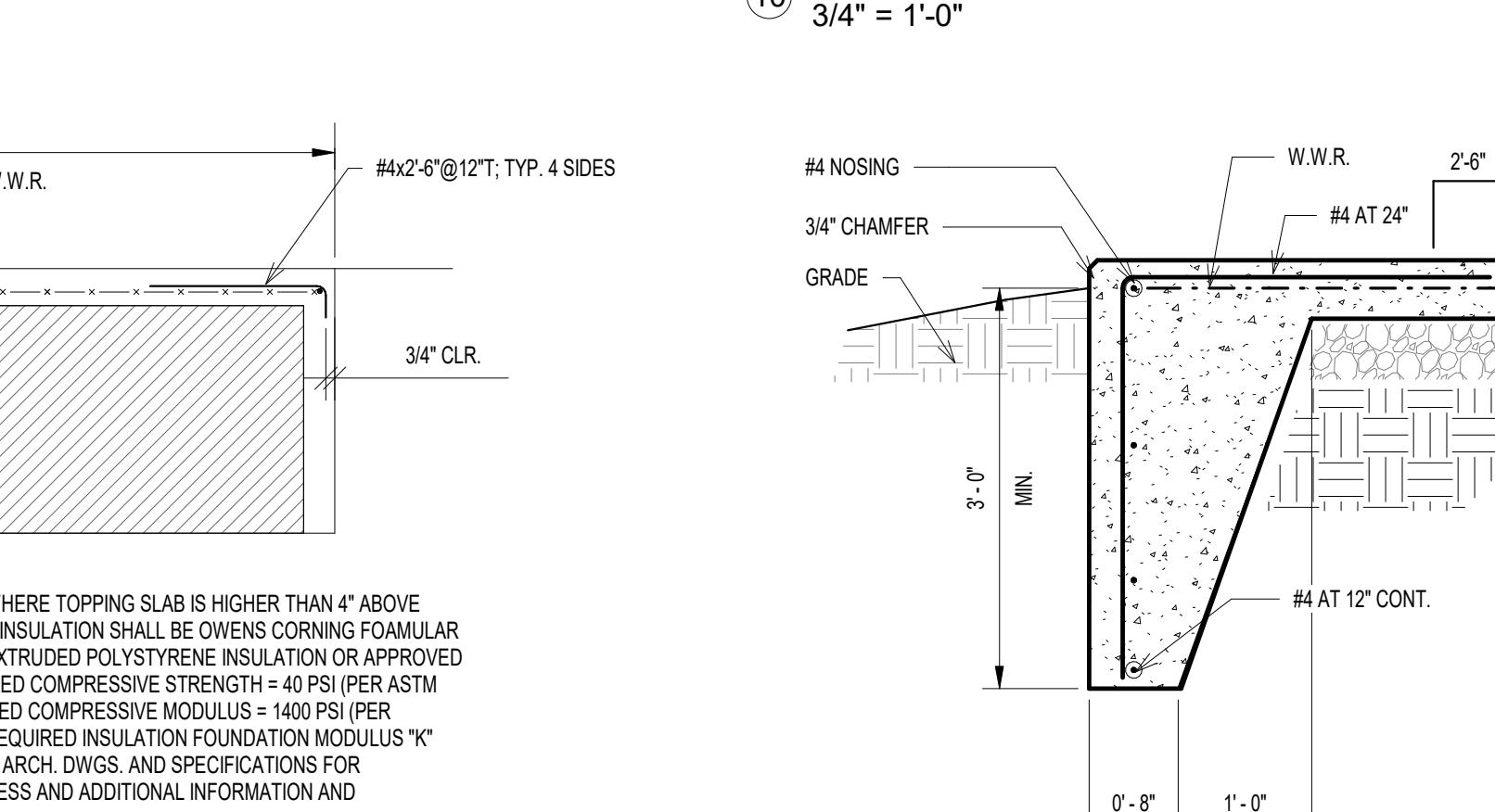
13) JOIST REINFORCING (K SERIES JOISTS)

3/4" = 1'-0"



11) NEW WALL OPENING IN EXISTING CMUAT EXISTING CMU EXTERIOR WALL (4'-0" MAX.)

3/4" = 1'-0"

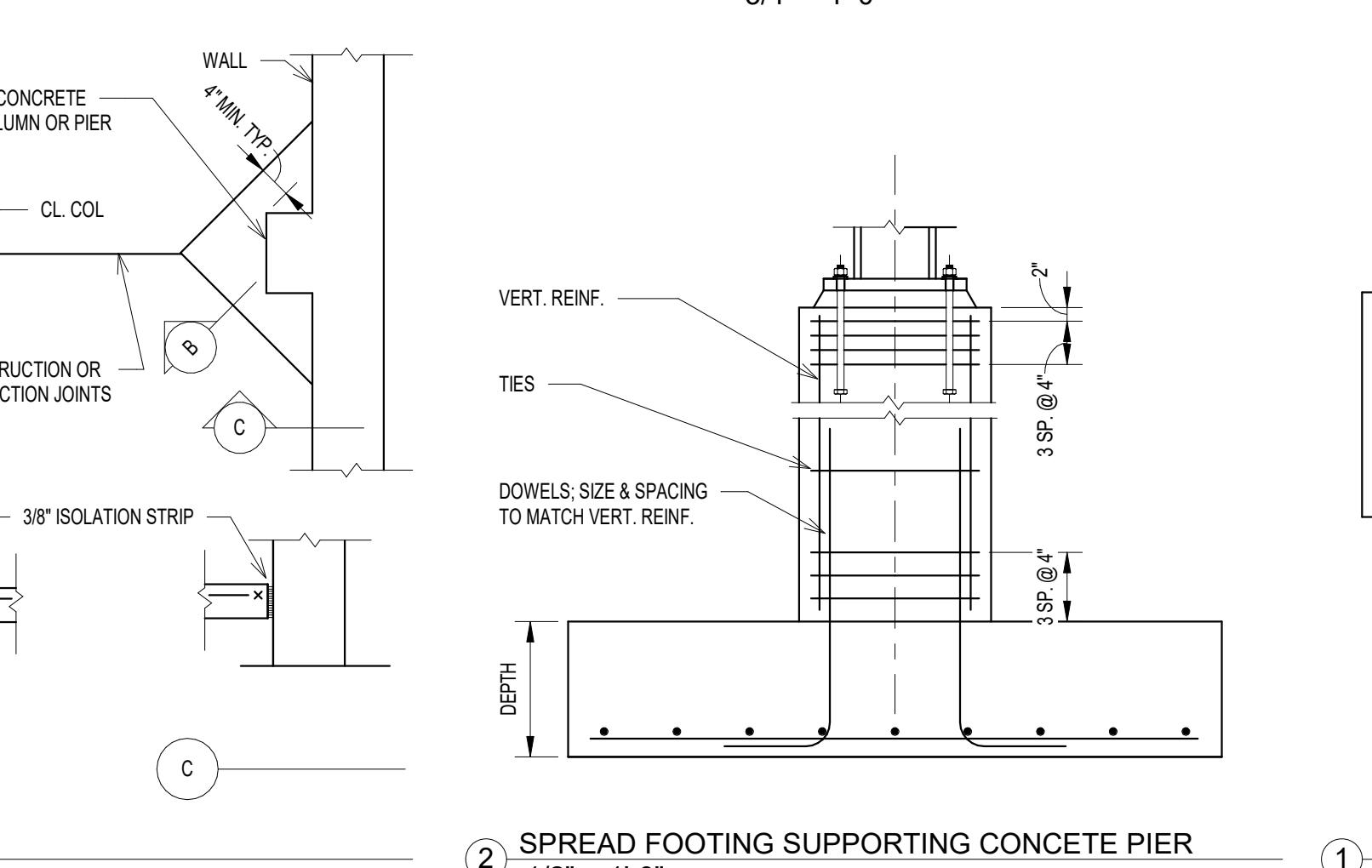


10) ROOF DECK REINFORCING BELOW ROOF DRAIN

3/4" = 1'-0"

11) DOWN-TURNED SLAB DETAIL

3/4" = 1'-0"



12) SPREAD FOOTING SUPPORTING CONCRETE PIER

3/4" = 1'-0"

1) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

2) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

4) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

5) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

6) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

7) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

8) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

9) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

10) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

11) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

12) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

13) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

14) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

15) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

16) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

17) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

18) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

19) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

20) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

21) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

22) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

23) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

24) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

25) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

26) CONCRETE PIER VERTICAL REINF., STEEL AND TIE BAR ARRANGEMENTS

3/4" = 1'-0"

W|Z|G

STRUCTURAL

**ISSUE FOR PERMIT
OCTOBER 15, 2025**

AEM ARCHITECTS INC.

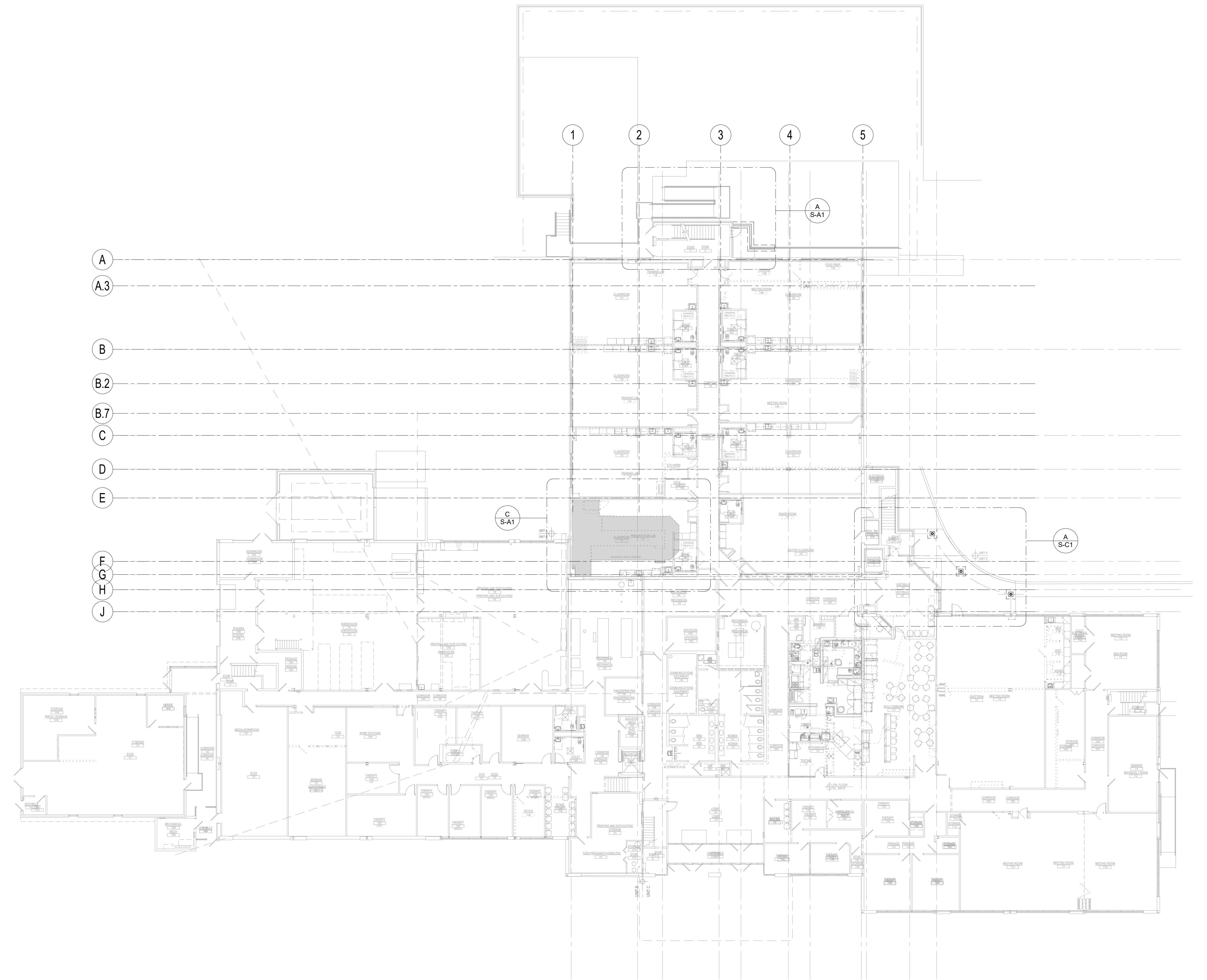
FIRST FLOOR PLAN

RENOVATIONS TO BERKS COUNTY INTERMEDIATE UNIT 14

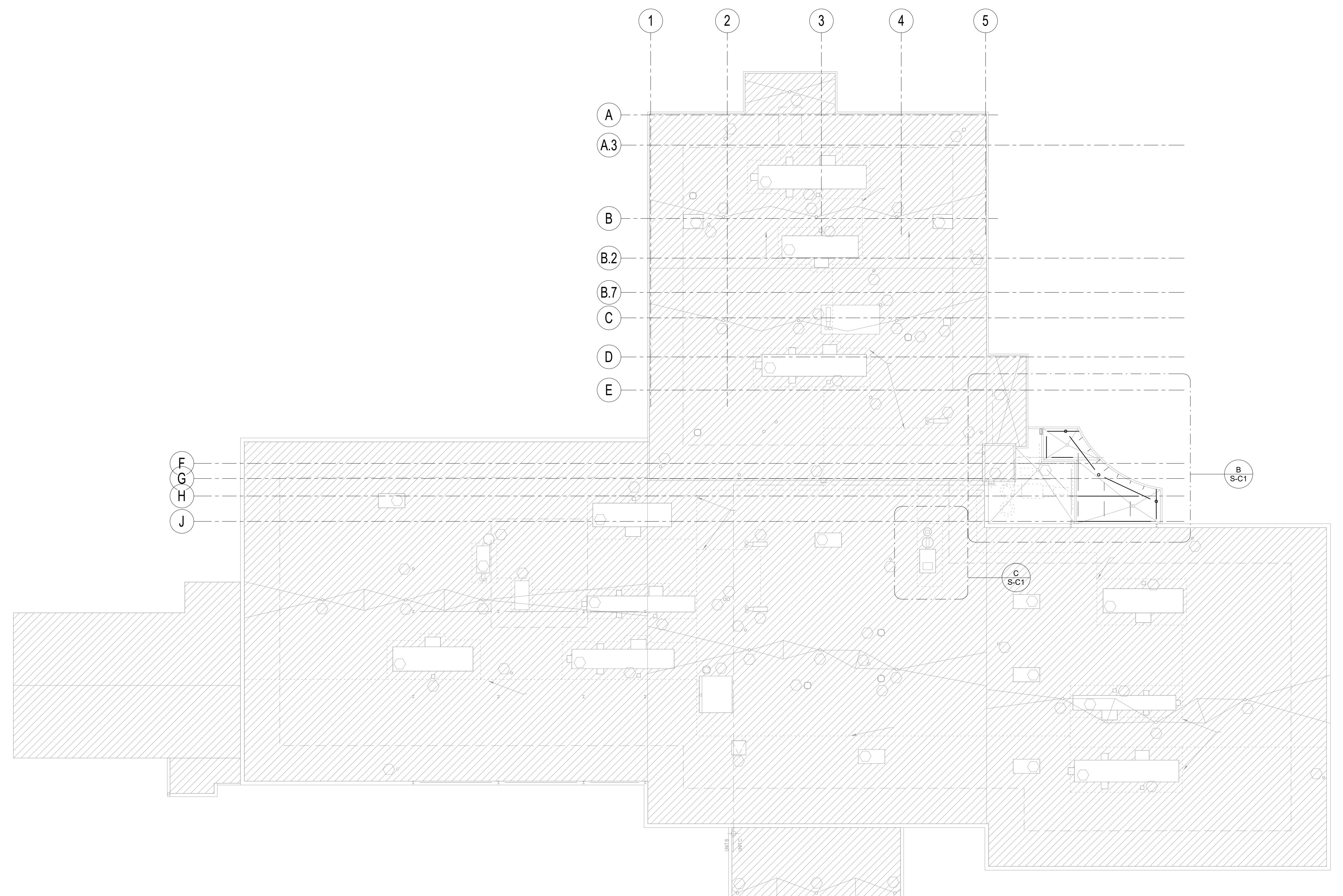
BCIU MAIN OFFICE

**ALL DIMENSIONS and EXISTING CONDITIONS
shall be CHECKED and VERIFIED
by the CONTRACTOR at the SITE**

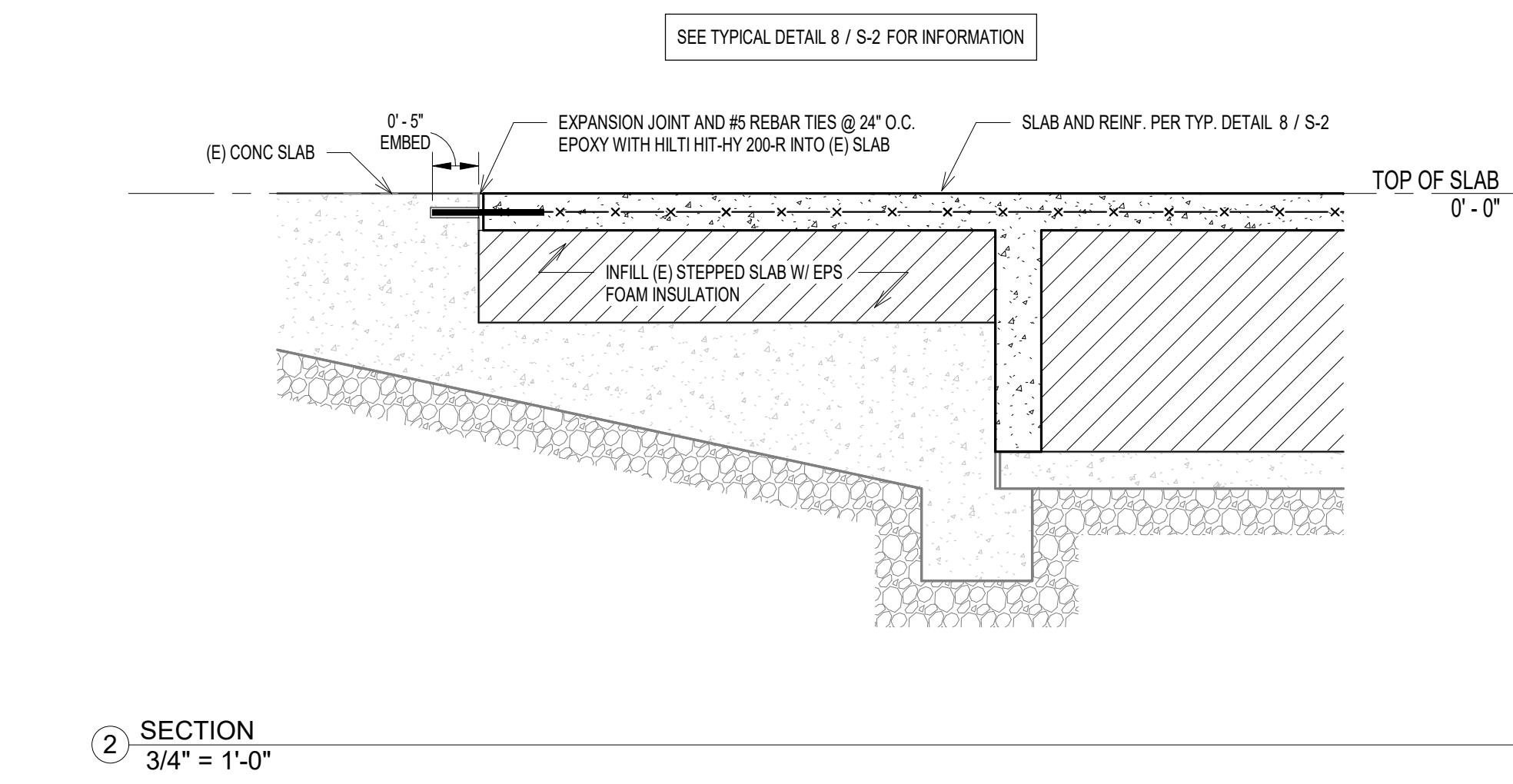
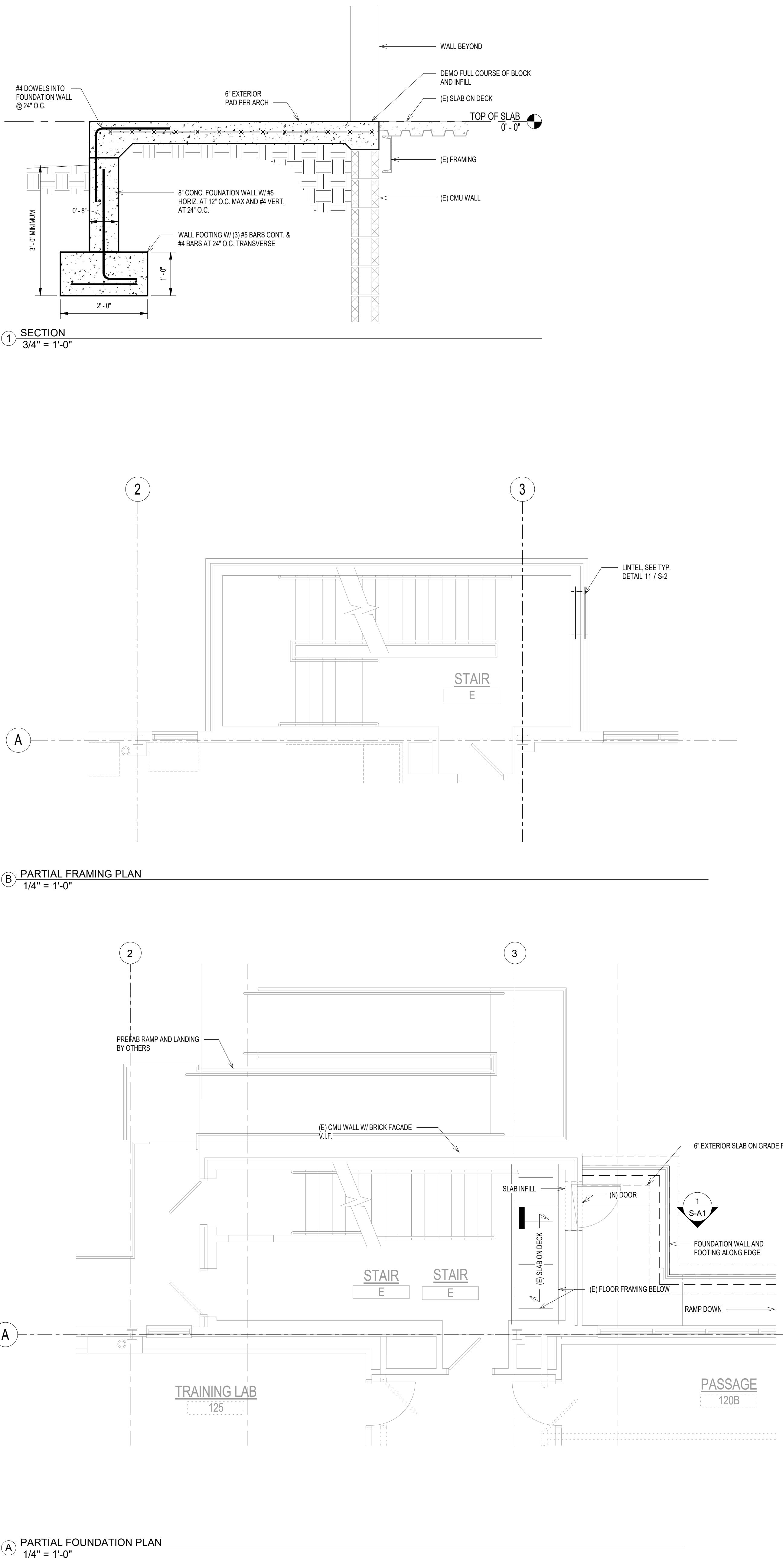
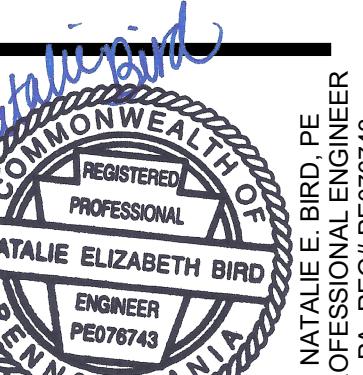
S-3



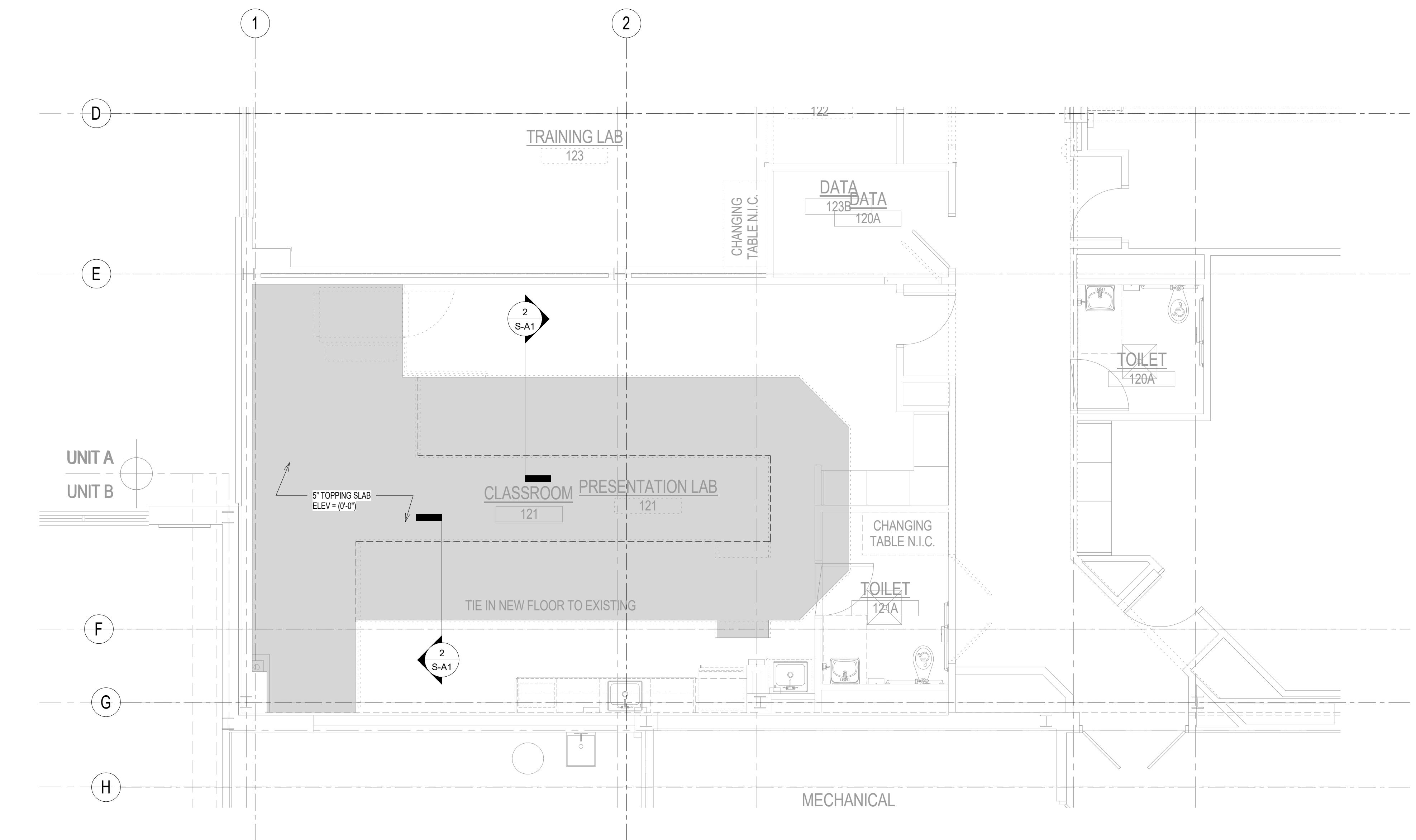
1 FIRST FLOOR FRAMING P
1/16" = 1'-0"



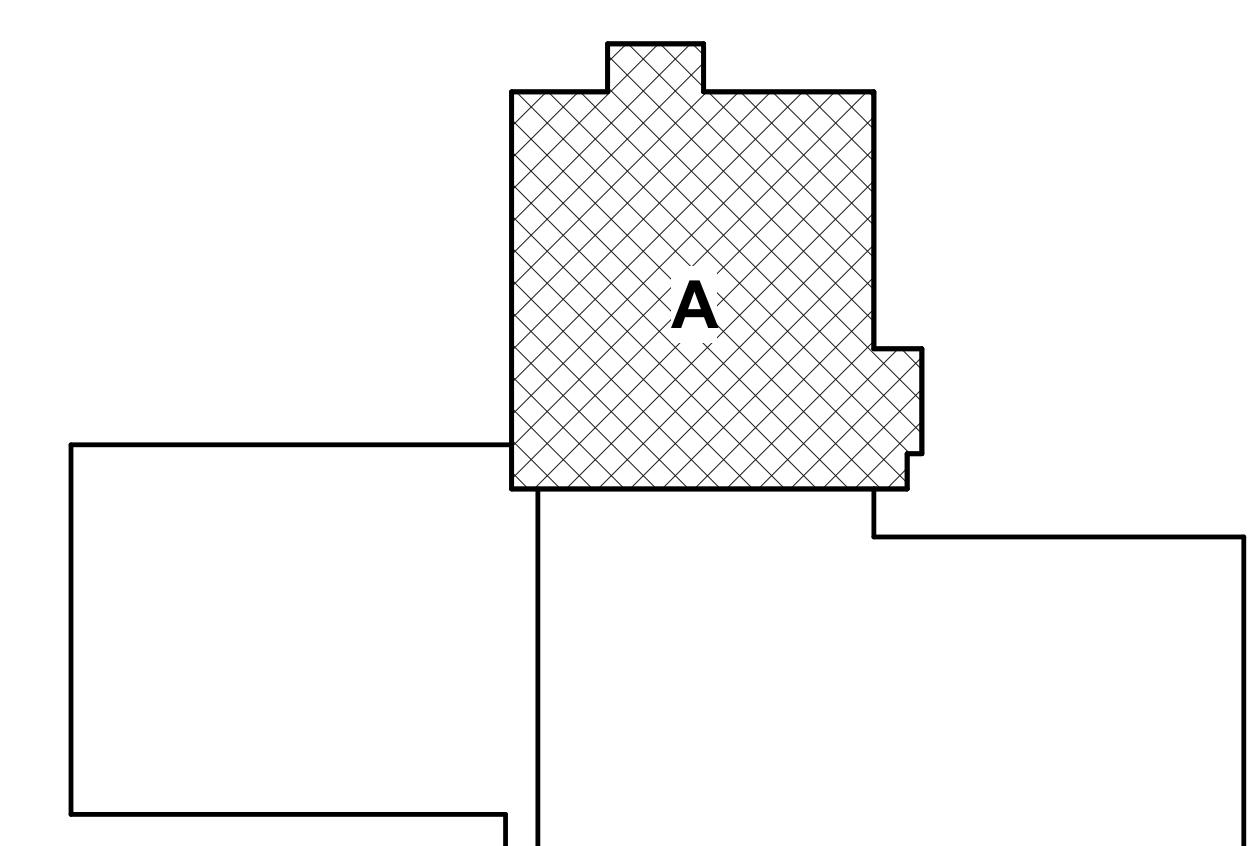
① ROOF FRAMING PLAN
1/16" = 1'-0"



② SECTION
3/4" = 1'-0"



③ PARTIAL FOUNDATION PLAN
1/4" = 1'-0"



This technical diagram illustrates a cross-section of a building frame, likely a roof or floor system, featuring a central vertical column and various horizontal joists and beams. Key components and dimensions include:

- Vertical Column:** A central vertical column is shown with a height of 9'-2 1/2".
- Horizontal Joists:** Horizontal joists are labeled as W10X12, W14X22, and W18X35.
- Planks:** A concrete hollow core plank is indicated with a height of 7'-1 3/4".
- Supports:** The structure is supported by six vertical columns, each labeled with a circled 'S-C2' and a number (2, 3, 4, 5, 6, or 7) indicating its position.
- Expansion Joint:** A horizontal slotted connection for an expansion joint is located at the bottom right, labeled "HORIZ. SLOTTED CONNECTION FOR EXPANSION JOINT".
- Radius:** A radius of "R-3.0" is indicated on the right side.
- Material Labels:** Labels such as "(E) CONC. HOLLOW CORE PLANK", "(E) W12X19", and "(E) W18X35" are used to identify specific components.
- Dimensions:** Vertical dimensions include 9'-2 1/2" and 7'-1 3/4". Horizontal dimensions include 13'-3 1/4" @ 4'-0" O.C. and 13'-3 1/4" @ 4'-0" O.C.

B PARTIAL FRAMING PLAN
1/4" = 1'-0"

B 1/4" = 1'-0"

This architectural floor plan illustrates a building section with various rooms and structural details. Key features include:

- Rooms:** MACH. RM. (120B), ELEVATOR (G), VESTIBULE (107), and RECEPTION (107A).
- Structural Elements:** A central staircase (STAIR D) with a landing. A horizontal pipe assembly spans the section, supported by 8" SCH 40 PIPE COLs labeled P18, F30, and BP-1. A masonry lintel is indicated above a window in the RECEPTION area.
- Dimensions:** Vertical dimensions include 12'-3 1/8" and 7'-5 7/8". Horizontal dimensions for the pipe spans are 9'-3 5/8" and 16'-2 3/4". A horizontal dimension of 3'-0" is shown at the top right, labeled "R-3.0".
- Labels:** Circular labels E, F, G, H, and J are positioned along the top and bottom horizontal lines. A label "1 S-C2" is placed near the central staircase.
- Notes:** A note at the bottom left states "MASONRY LINTEL ABOVE WINDOW. SEE TYP. DETAILS AND SCHEDULE". A note at the top right states "R-3.0 DENOTES SPAN OF 3' METAL ROOF DECK. SEE GENERAL NOTES FOR ADDITIONAL DETAILS."

A PARTIAL FOUNDATION PLAN
1/4" = 1'-0"

A 1/4" = 1'-0"

J

J

4' - 10"

V.I.F.

(E) 18K JOIST V.I.F.

(E) 18K JOIST V.I.F.

(E) 18K JOIST V.I.F.

(E) 18K JOIST V.I.F.

(N) KITCHEN EXHAUST FAN
WEIGHT = 250 LB

(N) KITCHEN VENTILATION SYSTEM
WEIGHT = 1550 LB

MISC. ROOF FRAMING SEE 14 / S-2

**C PARTIAL FRAMING PLAN
1/4" = 1'-0"**

ROOF FRAMING PLAN I

1. SEE S-1 FOR GENERAL NOTES AND S-2 FOR TYPICAL DETAILS.
2. VERIFY DIMS. WITH ARCH'L DWGS.
3. SEE ARCH'L DWGS. FOR STEEL THAT REQUIRES FIREPROOFING.
4. ALL COLUMNS SHALL BE CENTERED ON GRID LINES, U.N.O. ALL BEAMS ARE SPACED BETWEEN COLUMNS, U.N.O.
5. COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

→ DENOTES SPAN OF 3" METAL ROOF
DECK. SEE GENERAL NOTES FOR
ADDITIONAL DETAILS

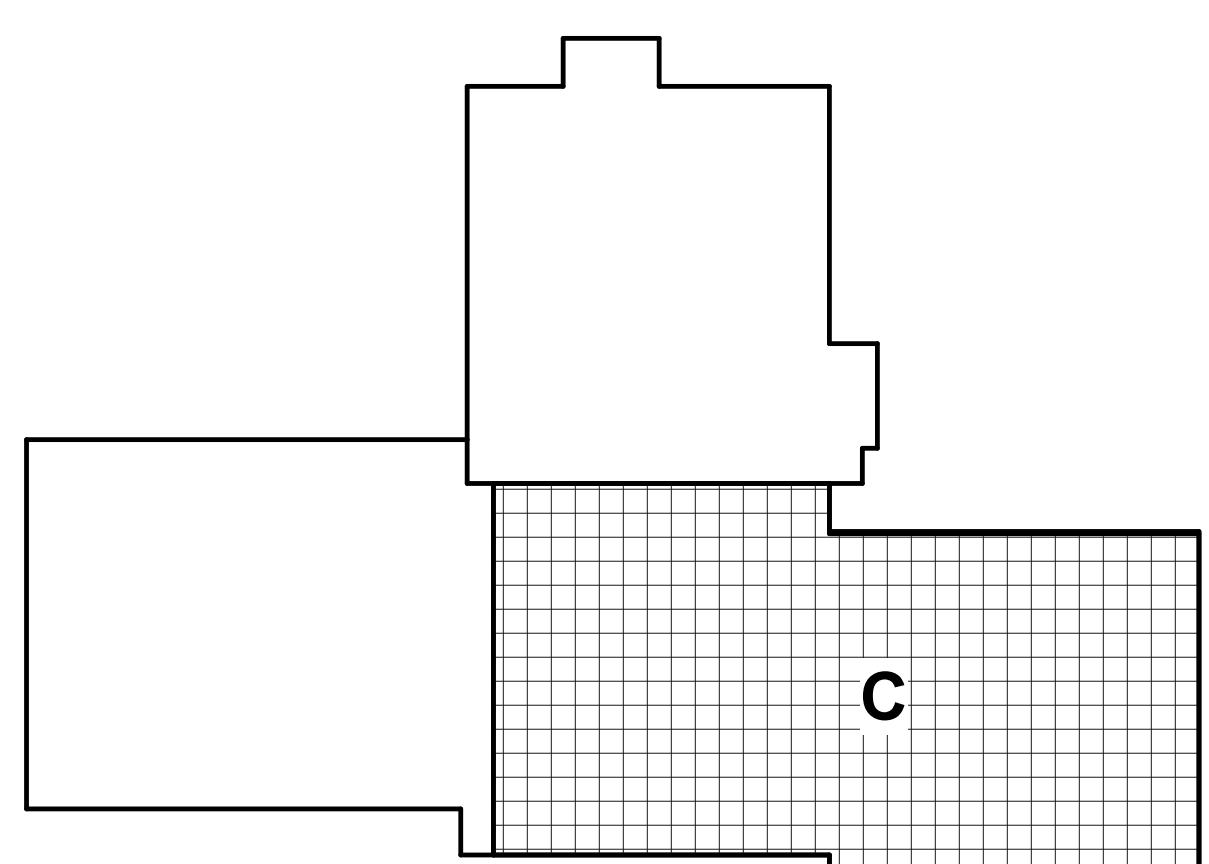
| BASE PLATE SCHEDULE | | | | | |
|---------------------|-----------|--------|-------|-------|--|
| MARK | COLUMN | B (in) | D(in) | t(in) | ANCHOR BOLTS |
| BP1 | 811SCU-40 | 14 | 14 | 3/4 | (4) 3/4" DIA. ASTM F1554 GR. 26 (L80% EMPED) |

| PIER SCHEDULE | | | |
|---------------|-------------|--------------|-------|
| MARK | DIMENSIONS | VERT. REINF. | TIES |
| P18 | 1'-6"X1'-6" | 8-#6 | #3@8" |

| SPREAD FOOTING SCHEDULE | | | | |
|-------------------------|------------|--------|-------|---|
| MARK | DIMENSIONS | | | REINFORCEMENT (EACH WAY BOTTOM, UNO) |
| | WIDTH | LENGTH | DEPTH | |
| F30 | 3'-0" | 3'-0" | 1'-0" | (4)-#4 BOT. |

FOUNDATION PLAN NOTE

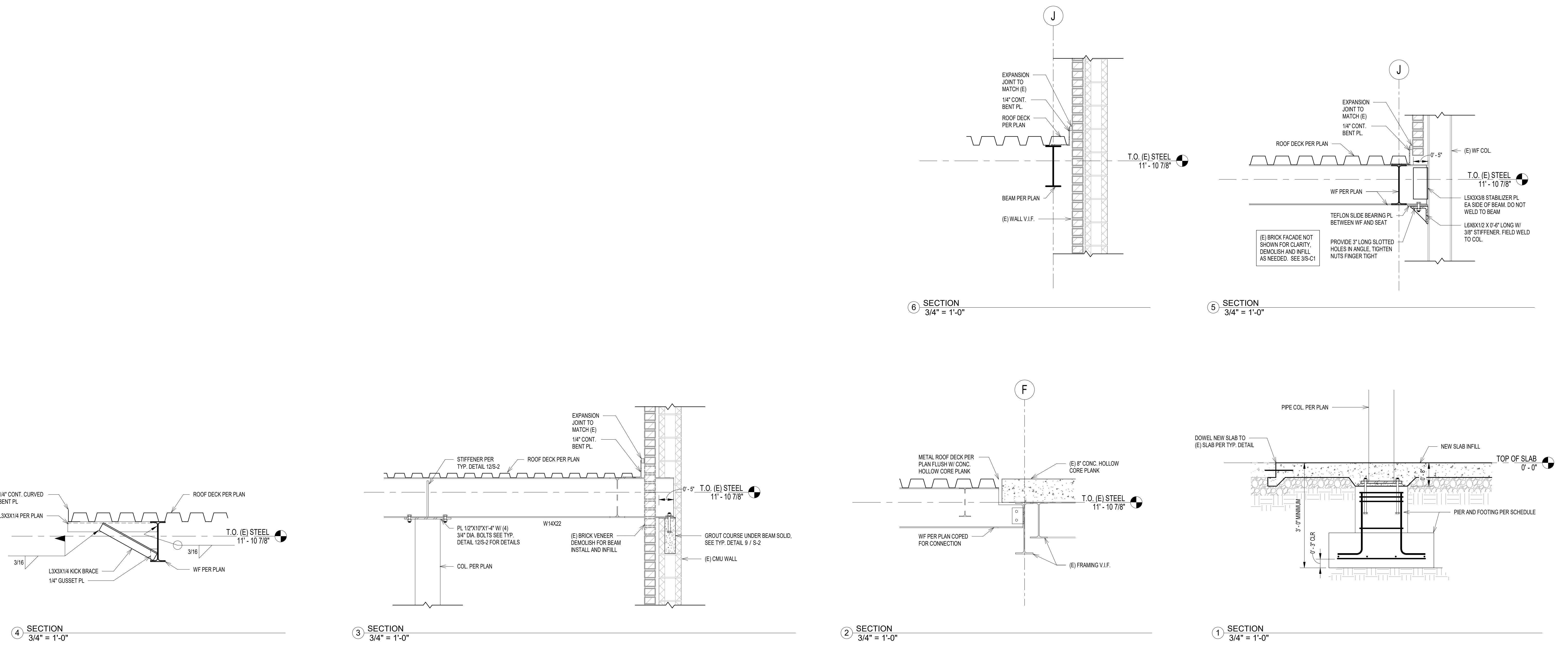
1. DATUM ELEVATION 0'-0" = TOP OF EXISTING SLAB
2. SEE S0.1 SERIES FOR GENERAL NOTES AND S2.1 FOR TYPICAL DETAILS.
3. [-X'-XX"] INDICATES TOP OF FOOTING ELEVATION. TOP OF ALL INTERIOR FOOTING ELEV. = -1'-4" U.N.O. TOP OF ALL EXTERIOR FOOTING ELEV. = -2'-8" U.N.O.
4. BOTTOMS OF ALL PERIMETER FOOTINGS SHALL BE 3'-0" MIN. BELOW GRADE.
5. SLAB ON GRADE SHALL BE REINFORCED PER THE GENERAL NOTES.
6. COORDINATE ALL SLAB ON GRADE RECESSES, CURBS, AND LEDGES WITH THE REQUIREMENTS OF THE ARCH. DWGS.
7. COORDINATE ALL SIZES AND LOCATIONS OF HOUSE KEEPING PADS WITH THE ARCH. AND MECH. DWGS.
8. VERIFY SLAB DIMENSIONS WITH ARCH. DWGS. REFER TO ARCH'L DRAWINGS FOR SLAB EDGE DIMENSIONS NOT INDICATED.
9. PX INDICATES PIER CALL OUT. BPX INDICATES BASE PLATE CALL OUT. T.O. PIER ELEVATION SHALL = -0'-8" U.N.O.
10. FOUNDATIONS, COLUMNS, AND PIERS ARE CENTERED ON THE GRID LINES, U.N.O.; ALL BEAMS TO BE EQUALLY SPACED BETWEEN COLUMN LINES, U.N.O.



KEYPLAN

NOT TO SCALE

NOT TO SCALE



SECTION 4

3 SECTION
3/4" = 1'-0"

2 SECTION
3/4" = 1'-0"

1 SECTION
3/4" = 1'-0"

**DIMENSIONS and EXISTING CONDITIONS
shall be CHECKED and VERIFIED
by the CONTRACTOR at the SITE.**

S-C2