



Department of Public Works

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NOTICE OF ADDENDUM

ADDENDUM NO. 2

CONTRACT NO. 7528, PROJECT NO. 10305 NAKOOSA TRAIL FLEET/FIRE/RADIO SHOP FACILITY

Revise and amend the contract document(s) for the above project as stated in this addendum, otherwise, the original document shall remain in effect.

This addendum consists of the following documents:

- **Existing Cub Food Foundation As-Builts dated 9-8-86:**
 - **Sheet 1 PARTIAL PLAN (NORTH-EAST CORNER)**
 - **Sheet 2 PARTIAL PLAN (NORTH-WEST CORNER)**
 - **Sheet 3 PARTIAL PLAN (SOUTH HALF)**
 - **Sheet 4 EXT. RAMP & DOCK @ H-10**
- **Responses to Bidders Questions in Section 2**
- **Drawings changes as detailed in Section 5**

1. **GENERAL CONTRACT CONDITIONS**

No Change

2. **GENERAL QUESTIONS AND ANSWERS**

A1: Clarify what type of fence is required in each area for site fence, dumpster enclosure gates, tool box storage room.

Q1: Refer to AS-001 Site Plan. Decorative metal fence is located along the north edge of the property on Nakoosa Trail and along the western edge of the service yard below the fuel tank wall. Decorative fence is located on the eastern edge of the property and stops at the Storage Building if add alternate is accepted or stops where angle starts. Chain link fence is located along the southern edge and southeast angle of the service yard. Tool Box Storage Room is a chain link with gate as detailed. Dumpster gate as detailed on Sheet A-534.

A2: Can XPS (extruded polystyrene) board insulation be substituted for MPS (molded polystyrene)?

Q2: MPS cannot be substituted for XPS.

A3: What material are the borrowed-lites on this job?

Q3: Borrowed-lites are aluminum frame storefront.

3. **ACCEPTABLE EQUIVALENTS**

- A. 07 26 16 BELOW-GRADE VAPOR RETARDERS: Inteplast Barrier-Bac VB-350 (16 mil) Vapor Barrier by Inteplast Group (www.Barrier-Bac.com) is an acceptable product that may be incorporated into the Work.

4. **SPECIFICATIONS**

No Change

5. **DRAWINGS**

- A. **MODIFIED** G-001 COVER SHEET to update overall building & site rendering.
- B. **MODIFIED** G-003 CODE AND LIFE SAFETY INFORMATION to shift locations of Fire Extinguishers.
- C. **MODIFIED** C-100 OVERALL SITE PLAN to include grading at the western detention basin and removal of the western end of the modular block retaining wall along Nakoosa Trail.
- D. **MODIFIED** C-101 SITE PLAN to include grading at the western detention basin, removal of a portion of the western end of the modular block retaining wall and revision to elevations along Nakoosa Trail, labeling of contours on the drawing, and an addition to the Legend.
- E. **MODIFIED** C-102 SITE PLAN to include modular block retaining wall elevations along Nakoosa Trail, the length and elevation of the field stone retaining wall, labeling of contours on the drawing, and an addition to the Legend.
- F. **MODIFIED** C 105 UTILITY PLAN to include Key Note 13 and the location of the 2-inch PVC conduit under the commercial driveway approach.
- G. **MODIFIED** C-106 UTILITY PLAN to included Key Note 7 and the location of the 2-inch PVC conduit under the commercial driveway approach.
- H. **MODIFIED** C-112 DEMOLITION PLAN to include General Note 2.
- I. **MODIFIED** C-113 STANDARD DETAILS to include detail L.
- J. **MODIFIED** L-201 LANDSCAPING PLAN to included grading at the western detention basin and removal of a portion of the western end of the modular block retaining wall along Nakoosa Trail.

- K. **MODIFIED** AS-002 002 to add dimension for the length of the perforated metal screen in drawing A1
- L. **MODIFIED** A-104 LEVEL 1 FLOOR PLAN AREA A to:
 - a. Add Key Note for Radiant Flooring Manifold Mounting Box location
 - b. Reviser fire extinguisher from wall mount to recess to comply with ADA requirements.
 - c. Revised thickness of partition to 6" metal stud at Break Room and Key room to accommodate fire extinguisher depth
 - d. Add note to identify free standing copier. Copier NIC.
 - e. Remove N.I.C. from locker notes in the Men's and Women's Locker Rooms
- M. **MODIFIED** A-105 LEVEL 1 FLOOR PLAN B to add key note for radiant flooring manifold mounting box location and to revised fire extinguisher from wall mount to recess to comply with ADA requirements.
- N. **MODIFIED** A-106 LEVEL 1 FLOOR PLAN C to add key note for radiant flooring manifold mounting box location and to revised fire extinguisher from wall mount to comply with ADA requirements
- O. **MODIFIED** A-107 LEVEL FLOOR PLAN D to add key note for radiant flooring manifold mounting box location and to revised fire extinguisher from wall mount to comply with ADA requirements
- P. **MODIFIED** A-108 LEVEL FLOOR PLAN E to:
 - a. Add key note for radiant flooring manifold mounting box location
 - b. Reviser fire extinguisher from wall mount to recess to comply with ADA requirements.
 - c. Moved ladder location to accommodate relocation of mechanical equipment on mezzanine.
 - d. Revise bollard location to accommodate revise mechanical equipment layout.
 - e. Add dimension for bollard location from building.
- Q. **MODIFIED** A-114 MEZZANINE FLOOR PLAN AREA B to revised ladder location and railing accommodate revised location of mechanical equipment on mezzanine.
- R. **MODIFIED** A-132 LEVEL AREA A REFLECTED CEILING PLAN to add annotation to represent location of roller shades.
- S. **MODIFIED** A-136 LEVEL 1 AREA E REFLECTED CEILING PLAN added annotation to represent location of roller shades. Also, add annotation for line of canopy and lighting on canopy.
- T. **MODIFIED** A-200 EXTERIOR FINISH SCHEDULE remove MP-6 from schedule.
- U. **MODIFIED** A-201 BUILDING ELEVATIONS Drawing K1 to add material key note for the perforated metal screen near entry.

- V. **MODIFIED** A-202 BUILDING ELEVATIONS to remove section marker for drawing legibility/clarity.
- W. **MODIFIED** A-310 N/S WALL SECTIONS to update bottom of wall section to reflect actual insulation in precast walls per manufacture discussions.
- X. **MODIFIED** A-311 N/S WALL SECTIONS for the following:
 - a. To update bottom of wall section to extend insulation past SOG to top of footing and to coordinate with structural detail.
 - b. To add detail callout to wall section A1 and A6 for louver head and sill condition
 - c. To add detail callout to wall section A10 for translucent wall system sill detail.
- Y. **MODIFIED** A-312 N/S WALL SECTIONS to update bottom of wall section to extend insulation past SOG to top of footing and to coordinate with structural detail.
- Z. **MODIFIED** A-313 E/W WALL SECTIONS to update bottom of wall section to extend insulation past SOG to top of footing and to coordinate with structural detail.
- AA. **MODIFIED** A-401 ENLARGED PLANS to remove "N.I.C." from locker note in both Men and Women's Restroom/Locker Room and add section callout that references the locker room details on sheet A-743
- BB. **MODIFIED** A-501 PARTITION TYPES to add note to clarify metal framing size to Partition Type M004 and remove note about metal framing size to Partition Type M001.
- CC. **MODIFIED** A-503 BL WINDOW ELEVATIONS to revise BL-19 to simplify and reduce size of glazing, add linework to represent radiant floor mounting box, revise glazing types on all BL drawings, and remove glazing type schedule.
- DD. **MODIFIED** A-504 AF WINDOW ELEVATIONS to removed Section marker to improve legibility/clarity at detail G1, clipped view for drawing clarity at detail L1, and removed glazing type schedule.
- EE. **MODIFIED** A-510 CANOPY DETAILS detail A11 to revised detail structural framing to be delegated design by cold- form metal framing engineer per specification.
- FF. **MODIFIED** A-511 EXTERIOR DETAILS Updated bottom of wall section to reflect actual insulation in precast walls per manufacture discussions, revised soffit to be sloped to match roof line in detail H13,
- GG. **MODIFIED** A-512 EXTERIOR DETAILS to:
 - a. Updated bottom of wall section to reflect actual insulation in precast walls per manufacture discussions.
 - b. Revised soffit to be sloped to match roof line in detail A1 and J12
 - c. Revised detail J7 to include structural outrigger
 - d. Revised A1 drawing title to inform all that this detail is for the secondary

- building and that it is to be for bid alternate no. 1.
 - e. Added detail G1
 - f. Revised G7 drawing title
- HH. **MODIFIED** A-532 AF DOOR DETAILS to add aluminum frame sliding door jamb detail A9 and head and sill detail A14
- II. **MODIFIED** A-541 EXTERIOR AF WINDOW DETAILS Detail K10 to remove note about FCB and rigid insulation and to add detail K1.
- JJ. **MODIFIED** A-601 DOOR SCHEDULE to remove two rows of glazing in overhead section door elevation drawing and to add information regarding door #1015A to the door schedule.
- KK. **MODIFIED** A-602 LOUVER SCHEDULE & DETAILS to:
- a. Remove louvers not in project from louver schedule,
 - b. Add detail H5 to illustrate louver sill connection to metal stud wall assembly
 - c. Revise detail K5 to illustrate metal stud wall with metal panel wall system attached
 - d. Revised detail K14 to illustrate metal panel wall system attached to precast wall assembly
 - e. Revised detail H10 to illustrate precast wall assembly
- LL. **MODIFIED** A-700 INTERIORS FINISH SCHEDULE & LEGENDS to delete CS-1 in Floor Schedule, add RES-1 in Floor Schedule, and revise CS-1 to SC-1 in the Room Finish Schedule.
- MM. **MODIFIED** A-701 OVERALL LEVEL 1 FINISH PLAN to revise Finish Legend graphic to SC-1 in lieu of deleted CS-1 and add RES-1. Wash Bay and Chassis Wash Bay graphic has been modified to reflect RES-1. LIGHT DUTY, HEAVY DUTY, AND RADIO SHOP MAINTENANCE Bays have been revised to SC-1 in lieu of CS-1.
- NN. **MODIFIED** A-741 INT. ARCH DETAILS Detail A1 to remove steel plate attached to wall finish for FEC 1.
- OO. **MODIFIED** A-743 INT LOCKER AND RR DETAILS to remove locker base with metal studs, added locker detail A14 for lockers used in Men and Women's Restroom/Locker rooms in Radio Comm Area.
- PP. **MODIFIED** S-001 STRUCTURAL NOTES to revise Structural Design Criteria as and revise Masonry Notes as indicated in attached drawing.
- QQ. **MODIFIED** S-010 LATERAL FORCES RESISTING SYSTEMS PLAN to revise SWP09 as and add Masonry Shear Walls as indicated in attached drawing.
- RR. **MODIFIED** S-101A FOUNDATION PLAN AREA A to revise foundations as indicated in attached drawings.

- SS. **MODIFIED** S-101B FOUNDATION PLAN AREA B to shift Grid R north 1-inch, revise grid dimensions as indicated, and revise foundations as indicated.
- TT. **MODIFIED** S-101C FOUNDATION PLAN AREA C to revise foundation as indicated.
- UU. **MODIFIED** S-101D FOUNDATION PLAN AREA D to revise foundation as indicated.
- VV. **MODIFIED** S-101E FOUNDATION PLAN AREA E to revise foundation as indicated.
- WW. **MODIFIED** S-111A FLATWORK PLAN AREA A to revise concrete slabs as indicated.
- XX. **MODIFIED** S-111B FLATWORK PLAN AREA B to:
 - a. Shift Grid R north 1-inch and revise grid dimensions as indicated,
 - b. Revise concrete slabs as indicated
 - c. Add equipment pads as indicated.
- YY. **MODIFIED** S-111C FLATWORK PLAN AREA C to revise concrete slabs as indicated and add equipment pads as indicated.
- ZZ. **MODIFIED** S-111D FLATWORK PLAN AREA D to revise concrete slabs as indicated and add equipment pads as indicated.
- AAA. **MODIFIED** S-111E FLATWORK PLAN AREA E to revise concrete slabs as indicated.
- BBB. **MODIFIED** S-131A LEVEL 1 STRUCTURAL FLOOR PLAN AREA A to add masonry control joints as indicated and revise Structural Floor Plan General Note 13 as indicated.
- CCC. **MODIFIED** S-131B LEVEL 1 STRUCTURAL FLOOR PLAN AREA B to:
 - a. Shift Grid R north 1-inch and revise grid dimensions as indicated
 - b. Add Keyed Note 3.306 as indicated
 - c. Revise Structural Floor Plan General Note 13 as indicated.
- DDD. **MODIFIED** S-131C LEVEL 1 STRUCTURAL FLOOR PLAN AREA C to revise Structural Floor Plan General Note 13 as indicated.
- EEE. **MODIFIED** S-131D LEVEL 1 STRUCTURAL FLOOR PLAN AREA D to:
 - a. Add masonry shear walls SW12B as indicated.
 - b. Add masonry control joints as indicated.
 - c. Revise Structural Floor Plan General Note 13 as indicated.
- FFF. **MODIFIED** S-131E LEVEL 1 STRUCTURAL FLOOR PLAN AREA E to revise Structural Floor Plan General Note 13 as indicated.
- GGG. **MODIFIED** S-132A MEZZANINE STRUCTURAL FLOOR PLAN AREA A to add masonry control joints as indicated and to revise Structural Floor Plan General Note 13 as indicated.

- HHH. **MODIFIED** S-132B MEZZANINE STRUCTURAL FLOOR PLAN AREA B to:
- Shift Grid R north 1-inch
 - Revise grid dimensions as indicated.
 - Revise Structural Floor Plan General Note 13 as indicated.
- III. **MODIFIED** S-132D MEZZANINE STRUCTURAL FLOOR PLAN D to:
- Add mezzanine deck connection detail cuts as indicated.
 - Add masonry control joints as indicated.
 - Revise Structural Floor Plan General Note 13 as indicated.
- JJJ. **MODIFIED** S-132E MEZZANINE STRUCTURAL FLOOR PLAN E to add masonry control joints as indicated and to revise Structural Floor Plan General Note 13 as indicated.
- KKK. **MODIFIED** S-142A MEZZANINE STRUCTURAL FLOOR PLAN AREA A to revise grid dimensions as indicated.
- LLL. **MODIFIED** S-142B MEZZANINE STRUCTURAL FLOOR PLAN AREA B to shift Grid R north 1-inch and revise grid dimensions as indicated.
- MMM. **MODIFIED** S-142D MEZZANINE STRUCTURAL FLOOR PLAN AREA D to add mezzanine deck connection detail cuts as indicated.
- NNN. **MODIFIED** S-151B LOW ROOF FRAMING PLAN AREA B to shift Grid R north 1-inch and revise grid dimensions as indicated.
- OOO. **MODIFIED** S-152A HIGH ROOF FRAMING PLAN AREA A to revise outrigger spacing as indicated and add Joist Extension Low Eave detail cut as indicated.
- PPP. **MODIFIED** S-152B HIGH ROOF FRAMING PLAN AREA B to:
- Shift Grid R north 1-inch and revise grid dimensions as indicated.
 - Revise girder elevations as indicated.
 - Add Joist Extension Low Eave detail cut as indicated.
 - Add Keyed Note 3.618 as indicated.
- QQQ. **MODIFIED** S-152C HIGH ROOF FRAMING PLAN AREA C to:
- Revise five joist sizes as indicated.
 - Add three solar panel roof frames as indicated.
 - Add two lines of 600S137-118 atop joists nested in roof deck as indicated.
 - Add Joist Extension Low Eave detail cut as indicated.
- RRR. **MODIFIED** S-152D HIGH ROOF FRAMING PLAN AREA D to add two lines of 600S137-118 atop joists nested in roof deck as indicated and to add Joist Extension Low Eave detail cut as indicated.
- SSS. **MODIFIED** S-152E HIGH ROOF FRAMING PLAN AREA E to add Joist Extension Low Eave detail cut as indicated.

- TTT. **MODIFIED** S-241 STRUCTURAL FRAMING ELEVATIONS to revise frame member spacing as indicated in Elevation 1 and 2.
- UUU. **MODIFIED** S-401 MISCELLANEOUS FOUNDATION PLANS:
- Enlarged Flatwork Plan 2: Add slab elevation and edge angle note as indicated.
 - Enlarged Foundation Plan 3: Add plan view as indicated.
 - Enlarged Foundation Plan 4: Add plan view as indicated.
 - Add Keyed Notes as indicated.
- VVV. **MODIFIED** S-451 MISCELLANEOUS FOUNDATION PLANS:
- Enlarged High Roof Framing Plan 2: Add two lines of 600S137-118 atop joists nested in roof deck as indicated.
 - Enlarged Low Roof Framing Plan 5: Extend plan view north to Grid A as indicated.
 - Add Keyed Note 3.603 as indicated.
- WWW. **MODIFIED** S-501 FOUNDATION DETAILS:
- Detail 7: Revise grade beams as indicated.
 - Detail 11: Remove sand bed from under slab and locate radiant heating tubing into the slab as indicated.
 - Detail 13: Remove sand bed from under slab and locate radiant heating tubing into the slab as indicated.
- XXX. **MODIFIED** S-502 FOUNDATION DETAILS 1: Revise piers, walls, and base plates as indicated.
- YYY. **MODIFIED** S-503 FOUNDATION DETAIL Foundation Elevation 1: Revise T.O. Footing elevation as indicated.
- ZZZ. **ADDED** S-504 FOUNDATION DETAIL to add new sheet of grade beam pier details.
- AAAA. **MODIFIED** S-511 FLATWORK DETAILS:
- Detail 1: SLB05: Remove reinforcing steel from slab and fine-graded granular material as indicated.
 - SLB06: Add new slab type as indicated.
 - SLB06H: (Previously SLB05H) Remove sand bed and vapor barrier, move radiant heating system into slab, and thicken slab by 1-inch as indicated.
 - SLB07H: (Previously SLB06H) Remove sand bed and vapor barrier, move radiant heating system into slab, and thicken slab by 1-inch as indicated.
 - SLB08: Remove reinforcing steel from slab and fine-graded granular material as indicated.
 - SLB09H: (Previously SLB08H) Remove sand bed and vapor barrier, move radiant heating system into slab, and thicken slab by 1-inch as indicated.
 - Detail 2: Remove reinforcing steel from slab as indicated.
 - Detail 3: Remove reinforcing steel from slab as indicated.
 - Detail 4: Remove reinforcing steel from slab as indicated.
 - Detail 5: Remove sand bed from under slab and locate radiant heating tubing

into the slab as indicated.

- f. Detail 6: Remove sand bed from under slab and locate radiant heating tubing into the slab as indicated.
- g. Detail 7: Remove sand bed from under slab and locate radiant heating tubing into the slab as indicated.
- h. Detail 8: Remove reinforcing steel from slab as indicated.
- i. Detail 17: Remove reinforcing steel from slab as indicated.

BBBB. MODIFIED S-521 STRUCTURAL WALL DETAILS:

- a. Detail 1: Remove structural wall types SW08C and SW12C as indicated.
- b. Detail 7: Remove reinforcing steel from slab and locate radiant heating tubing into the slab as indicated.

CCCC. MODIFIED S-531 STRUCTURAL FRAMING DETAILS

- a. Detail 22: Add Precast to Joist Extension Connection detail as indicated.

DDDD. ADD S-532 STRUCTURAL FRAMING DETAILS

EEEE. MODIFIED S-542 STRUCTURAL FRAMING DETAILS:

- a. Detail 11 through 17: New mezzanine deck attachment details added as indicated.

FFFF. MODIFIED S-543 STRUCTURAL FRAMING DETAILS:

- a. Detail 6: New joist loading detail added as indicated.
- b. Plan detail 7: New Solar Panel Framing Plan detail added as indicated. xlv.

GGGG. MODIFIED S-552 STRUCTURAL ROOF FRAMING DETAILS:

- a. Detail 1: Revise to girder bearing on top of column as indicated.
- b. Detail 2: Revise to girder bearing on top of column as indicated.
- c. Detail 3: Revise to LL4x3 1/2x3/8 to read to 2L4x3 1/2x3/8 as indicated.
- d. Detail 15: Revise to girder bearing on top of column as indicated.
- e. Detail 16: Revise to girder bearing on top of column as indicated.

HHHH. MODIFIED S-601 STRUCTURAL SCHEDULES:

- a. Concrete Spread Footing Schedule: Revise as indicated.
- b. Concrete Pier Schedule and Remarks: Revise as indicated.
- c. Structural Column Schedule – Area A: Revise as indicated.
- d. Structural Column Schedule – Area B: Revise as indicated.
- e. Structural Column Schedule – Area C and D: Revise as indicated.
- f. Structural Column Schedule Remarks: Add remark 2 as indicated. xlv.

IIII. MODIFIED S-602 STRUCTURAL SCHEDULE DETAILS

- a. Detail 2: Revise Welded Washer schedule to include 1 1/2" diameter anchor rod washer information as indicated.
- b. Detail 4: Revise base plate as indicated.
- c. Detail 5: Add new base plate detail as indicated.
- d. Detail 9: Revise grid number 39 to 3.9 as indicated.

- e. Detail 11: Add new base plate detail as indicated.
- f. Detail 12: Add new base plate detail as indicated.

- JJJJ. **MODIFIED** M-101E LEVEL 1 FLOOR PLAN – HVAC – AREA E to revise ductwork air distribution for AHU-E1 as indicated on M-111E.
- KKKK. **MODIFIED** M-131E LEVEL 1 FLOOR PLAN – PIPING – AREA E to revise piping distribution as indicated on M-131E and added ACCU-E3 and refrigerant line set.
- LLLL. **MODIFIED** M-301 ENLARGED MECHANICAL PLAN – MEZZANINE – AREA A to delete VFD-14 as indicated on M-301.
- MMMM. **MODIFIED** M-308 ENLARGED MECHANICAL PLAN AND SECTIONS – MEZZANINE – AREA E to revise detail 1, 2 and 3 for AHU-E1 as indicated on M-308.
- NNNN. **MODIFIED** M-501 MECHANICAL DETAILS to revise details as indicated on sheet M-501.
- Oooo. **MODIFIED** M-601 MECHANICAL SCHEDULES:
- a. Revised HVAC DUCT INSULATION SCHEDULE
 - Revised INSULATION TYPE D3
 - Revised JACKETING TYPE J8
 - Added REMARK (2).
 - b. Revised AIR FLOW MEASURING STATION (AFMS) SCHEDULE.
 - Renumbered all AFMS-E1- as indicated on sheet M-601.
 - Revised AFMS-E1-5 as indicated on sheet M-601.
 - Added AFMS-E1-8 as indicated on sheet M-601.
- PPPP. **MODIFIED** M-602 MECHANICAL SCHEDULES:
- a. Revise MODULAR INDOOR – AIR HANDLING UNIT (AHU) SCHEDULE as shown on sheet M-602.
 - b. Revised AIR FILTER (AF) SCHEDULE as shown on sheet M-602.
 - c. Revised HEATING/COOLING COIL (HC/CC) SCHEDULE as shown on sheet M-602.
 - d. Revised CUSTOM AIR HANDLING UNIT (AHU) SCHEDULE as shown on sheet M-602.
- QQQQ. **MODIFIED** M-603 MECHANICAL SCHEDULE:
- a. Revised EXHAUST FAN (EF) AND SUPPLY FAN (SF) SCHEDULE as shown in sheet M-603.
 - b. Revised VARIABLE FREQUENCY DRIVE (VFD) SCHEDULE as shown on sheet M-603
 - c. Revised SOUND ATTENUATING DEVICE (SAD) SCHEDULE
 - Deleted silencer SAD-E1 as shown on sheet M-603.
 - Revised silencer SAD-E2 data as shown on sheet M-603.
- RRRR. **MODIFIED** M-604 MECHANICAL SCHEDULE to delete ERV-1 and STATIC-PLATE, ENTHALPY AIR-TO-AIR HEAT EXCHANDGER (ERV) SCHEDULE on sheet M-604.

- SSSS. **MODIFIED** M-605 MECHANICAL SCHEDULE:
- a. **Revise AIR COOLED CONDENSING UNIT (ACCU) SCHEDULE.**
 - Revise ACCU-A1, ACCU-D2 and ACCU-D3 as shown on sheet M-605
 - Revise ACCU-E1 as shown on sheet M-605.
 - Added ACCU-E3 as shown on sheet M-605.
 - Revised REMARK (4) and added REMARK (5).
- TTTT. **MODIFIED** M-701 MECHANICAL AIR FLOW DIAGRAM to revise AHU-E1 air flow diagram 3/M-701 as indicated on sheet M-701.
- UUUU. **MODIFIED** M-801 (attached) to revise AHU-A1- Mechanical Controls for detail 1 as indicated on sheet M-801.
- VVVV. **MODIFIED** M-803 MECHANICAL CONTROLS to revise AHU-E1 - Mechanical Controls for detail 1 as indicated on sheet M-803.
- WWWW. **MODIFIED** F-001 FIRE PROTECTION SYMBOLS, ABBREVIATIONS, NOTES AND DETAILS to removed Dry Pipe System from Detail 2.
- XXXX. **MODIFIED** F-101B LEVEL 1 FLOOR PLAN – FIRE PROTECTION – AREA B to remove Dry Pipe from plan.
- YYYY. **MODIFIED** E-135 LEVEL 1 FLOOR PLAN AREA E – POWER:
- a. Add electrical equipment connection for ACCU-E3.
 - b. Revise Generator Notes as indicated.
 - c. Revise circuiting for ACCU-E1.
- ZZZZ. **MODIFIED** E-136 MEZZANINE FLOOR PLANS – POWER:
- a. Add EF-E1-4 and Wheel on Detail 1.
 - b. Revise VFD locations on Detail 1.
 - c. Delete ERV-1 on Detail 1.
 - d. Delete VFD associated with SF-A2-1 on Detail 2.
- AAAAA. **MODIFIED** E-605 SCHEDULES:
- a. Add ACCU-E3 and EF-E1-4
 - b. Revise information in ACCU-E1, SF-A2-1, SF-E1-3
 - c. Delete ERV-1
- BBBBB. **MODIFIED** E-607 SCHEDULES to revise 1HB-38,40,42 to 'SPARE'.
- CCCCC. **MODIFIED** E-609 SCHEDULES to revise Panel 1XHB.
- DDDDD. **MODIFIED** T-011 TECHNOLOGY SYSTEMS SITE PLAN – WEST to add Technology Systems General Notes 4 and 5 and revise Keyed Notes 9.601 and 9.602.
- EEEE. **MODIFIED** T-012 TECHNOLOGY SYSTEMS SITE PLAN – EAST to add Technology Systems

General Notes 4 and 5, and revise Keyed Note 9.609

- FFFFF. **MODIFIED** T-100 OVERALL BUILDING PLAN
- Add Pathways General Notes 2 and 3
 - Revise Keyed Note in Light Duty Maintenance Bay to 9.341
 - Revise Keyed Notes 9.601, 9.602 and 9.609
- GGGGG. **MODIFIED** T-101 LEVEL 1 – FLOOR PLAN A – COMMUNICATIONS to revise cable tray pathway location as shown on T-111 and add Communications General Note 2
- HHHHH. **MODIFIED** T-102 LEVEL 1 – FLOOR PLAN B – COMMUNICATIONS to revise Keyed Note in Light Duty Maintenance bay to 9.341 and to add Communications General note 2
- IIIII. **MODIFIED** T-103 - LEVEL 1 – FLOOR PLAN C– COMMUNICATIONS to revise mounting height of telecommunications outlet outside of common work area 1086 to 3'-10" above finished floor.
- JJJJJ. **MODIFIED** T-105 LEVEL 1 – FLOOR PLAN E – COMMUNICATIONS:
- Add Keyed Notes 9.713 and 9.714 to call box outlet and camera outlet, respectively, as shown on sheet T-105
 - Revise location of call box outlet and camera outlet as shown on T-105
 - Add Communications General Note 2
- KKKKK. **MODIFIED** T-106 MEZZANINE FLOOR PLANS – COMMUNICATIONS to revise location of equipment outlet and wall phone outlet on parts mezzanine 2001
- LLLLL. **MODIFIED** T-125 LEVEL 1 – FLOOR PLAN AREA B – SECURITY to revise camera location as shown on T-105
- MMMMM. **MODIFIED** T-141 LEVEL 1 FLOOR PLAN AREA A AUDIO/VISUAL to add (1) recessed speaker in corridor 1028 and to revise type of (2) recessed speakers to pendant speakers in corridor 1028
- NNNNN. **MODIFIED** T-142 LEVEL 1 FLOOR PLAN AREA B AUDIO/VISUAL to revise mounting height of horn type speakers in light duty maintenance bay 1055.
- OOOOO. **MODIFIED** T-143 LEVEL 1 FLOOR PLAN AREA C AUDIO/VISUAL to add Keyed Note 9.906 and to revise mounting height of horn type speakers in heavy vehicle repair bays 1084
- PPPPP. **MODIFIED** T-501 DETAILS to revise mounting height of keypad as shown on detail 8 on sheet T-501
- QQQQQ. **MODIFIED** T-502 DETAILS:
- Revise mounting height of telecommunications outlets in unfinished spaces as shown in detail 3 on sheet T-502
 - Revise mounting height of telecommunications outlets in finished spaces as shown in detail 3 on sheet T-502

6. **PROPOSAL**

No Change

Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on Bid Express at:

<https://www.bidexpress.com/>

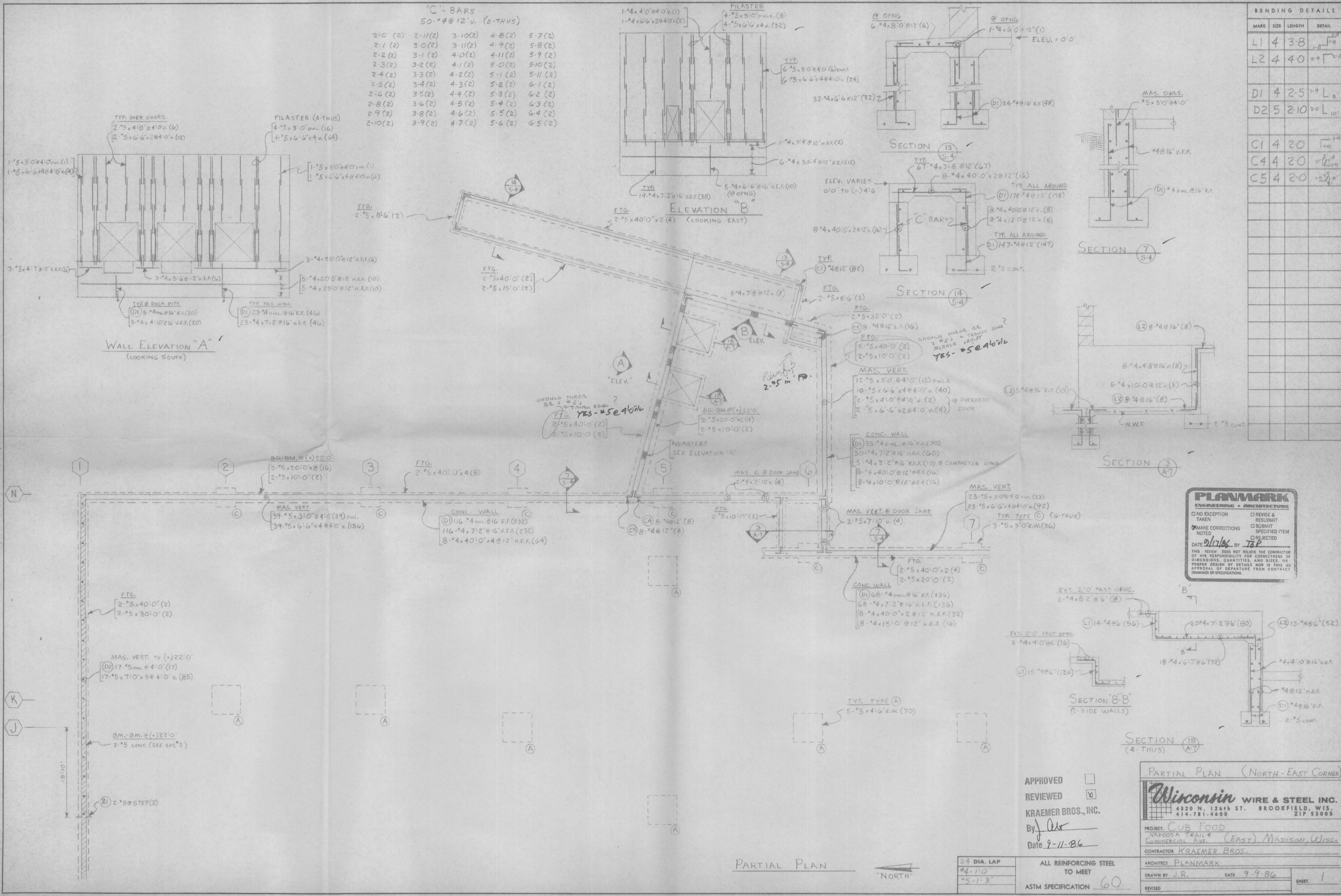
If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 receive the material by another route.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert Phillips". The signature is stylized with large, flowing loops for the first and last names.

Robert F. Phillips, P.E., City Engineer

Cc: Greg Fries, Kathy Cryan



BENDING DETAILS			
MARK	SIZE	LENGTH	DETAIL
L1	4	3-8	
L2	4	4-0	
D1	4	2-5	
D2	5	2-10	
C1	4	2-0	
C4	4	2-0	
C5	4	2-0	

PLAYMARK
ENGINEERING - ARCHITECTURE

☐ NO EXCEPTION TAKEN
☒ MAKE CORRECTIONS NOTED
DATE 9/17/86 BY JRP

☐ REVISE & RESUBMIT
☐ SUBMIT SPECIFIED ITEM
☐ REJECTED

THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR CORRECTNESS OF DIMENSIONS, QUANTITIES, AND SIZES, OR PROPER DESIGN OF DETAILS NOR THIS AN APPROVAL OF DEPARTURE FROM CONTRACT DRAWINGS OR SPECIFICATIONS.

APPROVED ☐
REVIEWED ☒
KRAEMER BROS., INC.
By *JRP*
Date 9-11-86

24 DIA. LAP	ALL REINFORCING STEEL TO MEET
4" L.O.	ASTM SPECIFICATION 60
5" L.O.	

PARTIAL PLAN (NORTH-EAST CORNER)

Wisconsin WIRE & STEEL INC.
4320 N. 126th ST. BROOKFIELD, WIS. 53005
414.781.4600

PROJECT: CUB FOOD
NAKOOSA TRAIL #
COMMERCIAL AVE. (EAST) MADISON, WIS.

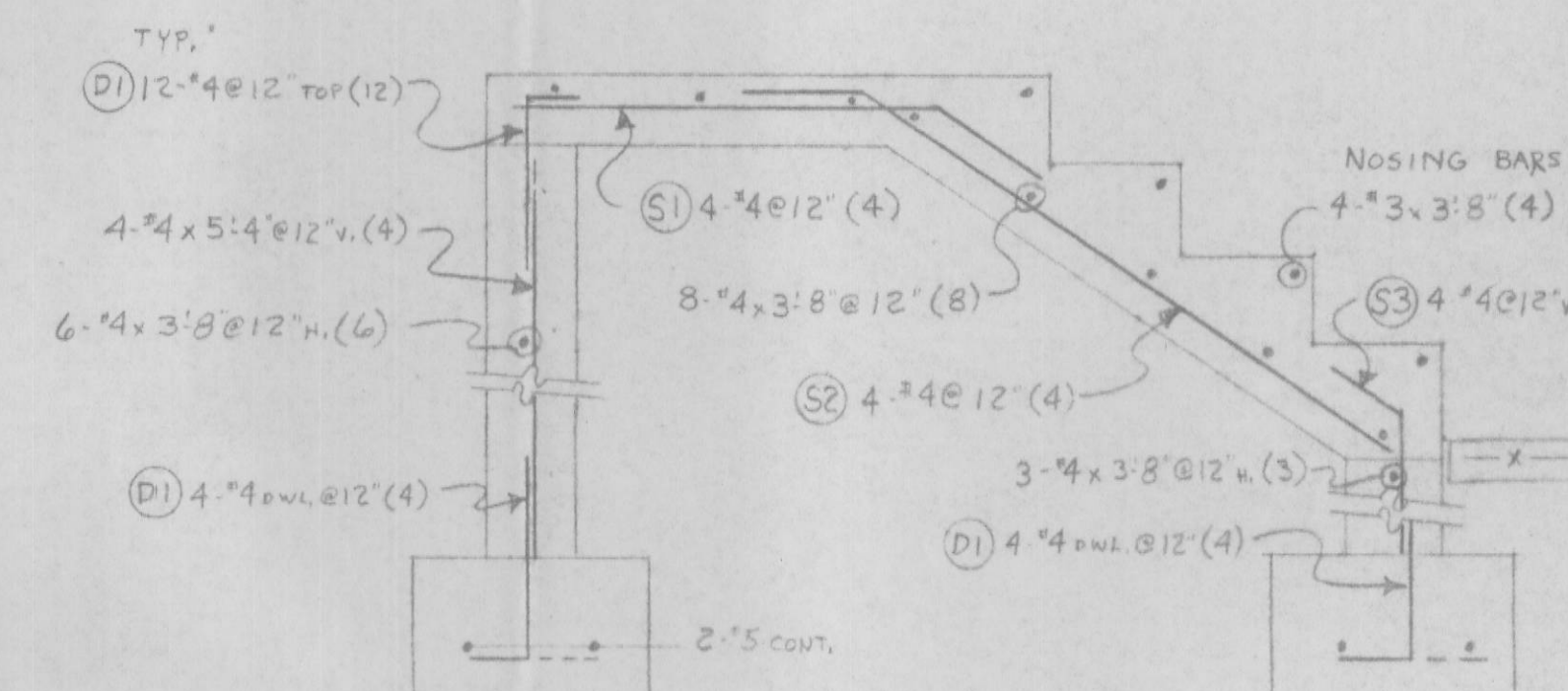
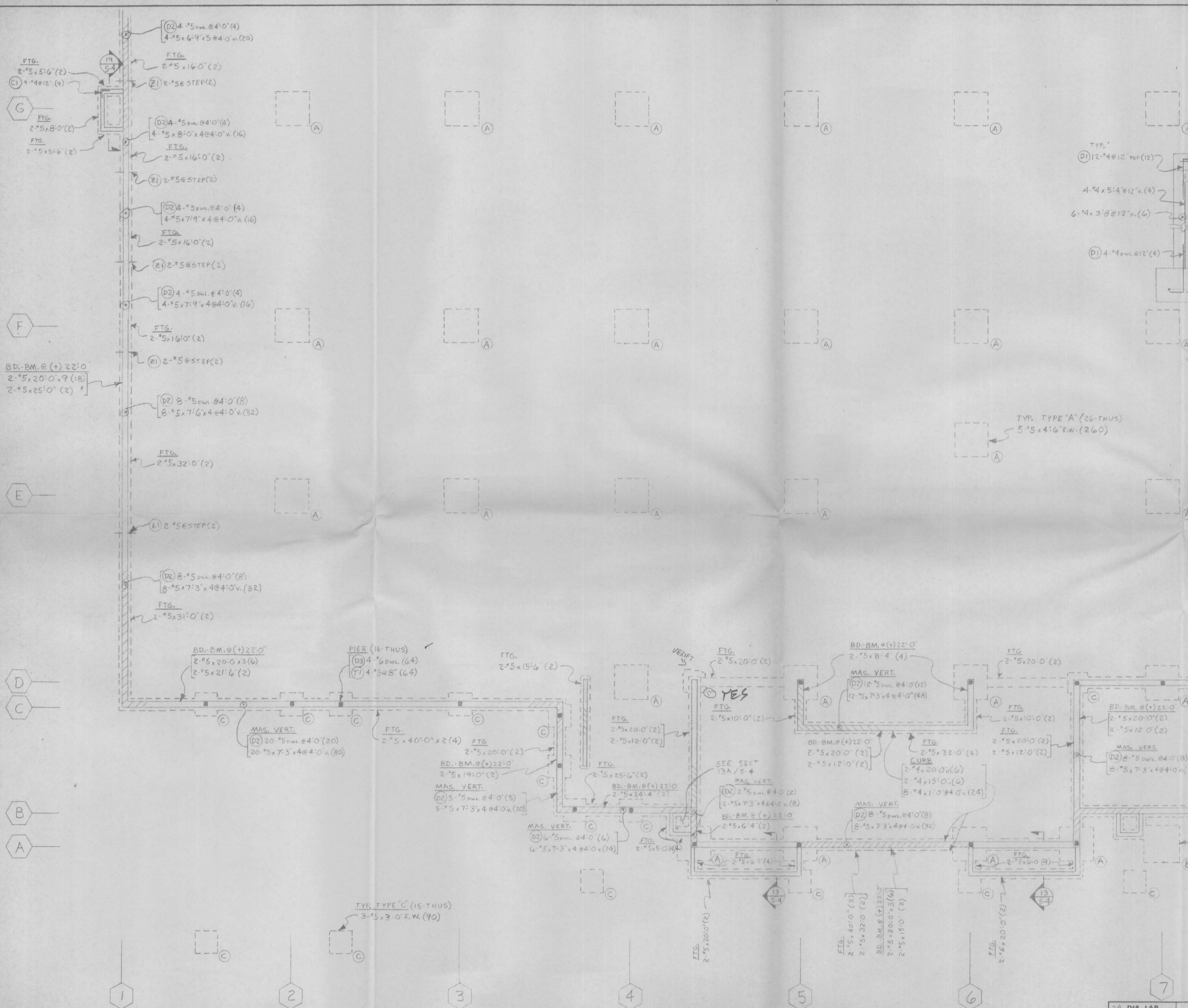
CONTRACTOR: KRAEMER BROS.

ARCHITECT: PLAYMARK

DRAWN BY: J.R. DATE: 9-9-86

REVISIONS

SHEET 1

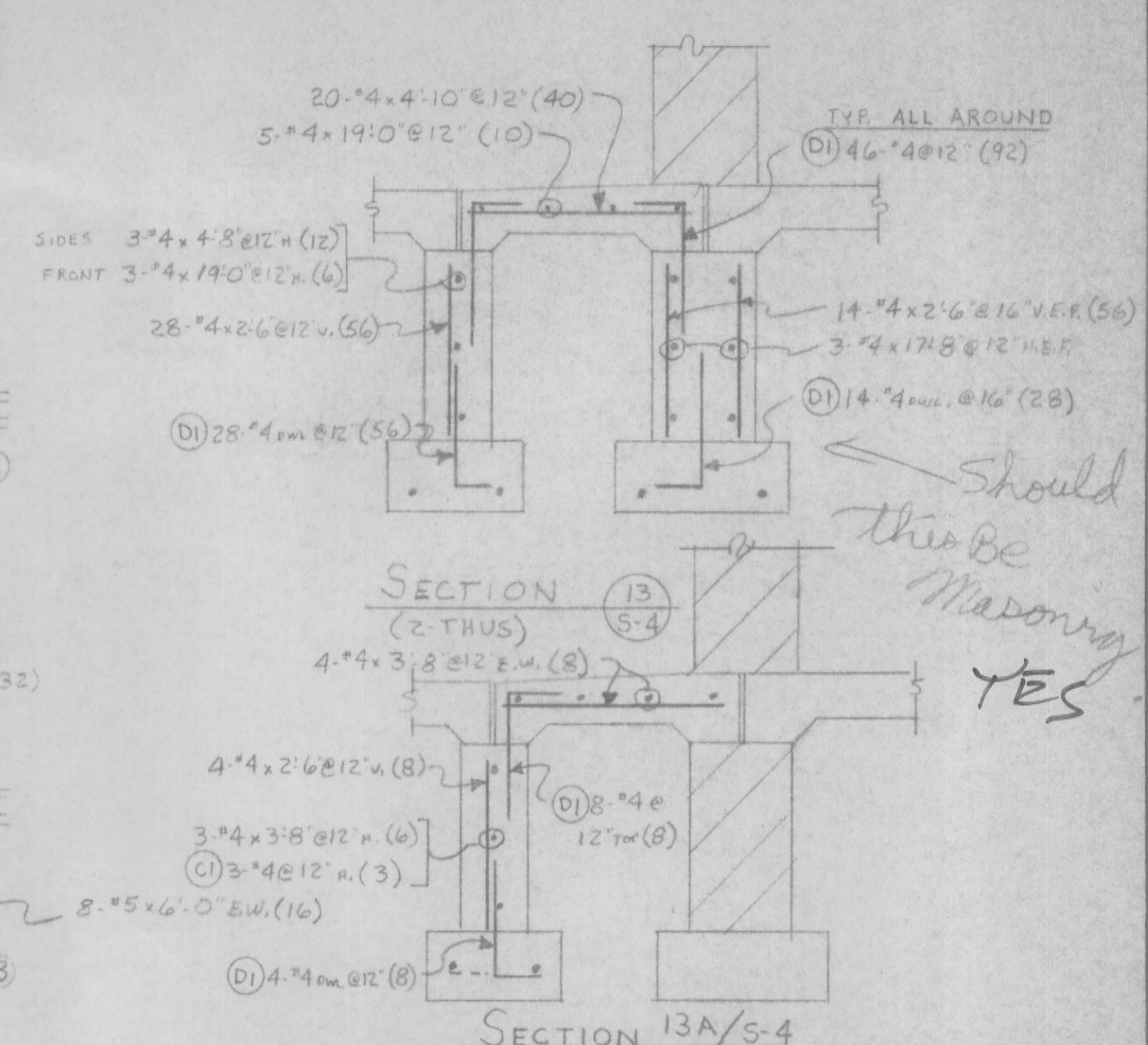


"A"-BARS

7'-4" @ 12" v.
5-4 (1)
5-4 (1)
5-4 (1)
4-9 (1)
4-2 (1)
3-6 (1)
3-3 (1)

"B"-BARS

6'-4" @ 12" h.
3-0 (1)
4-3 (1)
6-0 (1)
6-0 (1)
6-0 (1)
6-0 (1)



BENDING DETAILS

MARK	SIZE	LENGTH	DETAIL
D1	4	2-5	1-9 L ₈
D2	5	2-10	2-0 L ₁₀
D3	6	4-3	3-3 L ₁₀
Z1	5	3-2	1-3 L ₈
T1	3	3-4	6 L ₁₀
S1	4	4-0	3-0 L ₁₀
S2	4	5-4	1-4 L ₁₀
S3	4	4-6	1-3 L ₁₀
C1	4	2-0	1-0 L ₁₀

"PARTIAL PLAN" (NORTH-WEST CORNER)

Wisconsin WIRE & STEEL INC.
4320 N. 126th ST. BROOKFIELD, WIS. 53005
414-781-4600

PROJECT: CUB FOODS
MAKOSKA TRAIL & COMMERCIAL AVE. (EAST) MADISON, WIS.

CONTRACTOR: KRAEMER BROS.

ARCHITECT PLANMARK

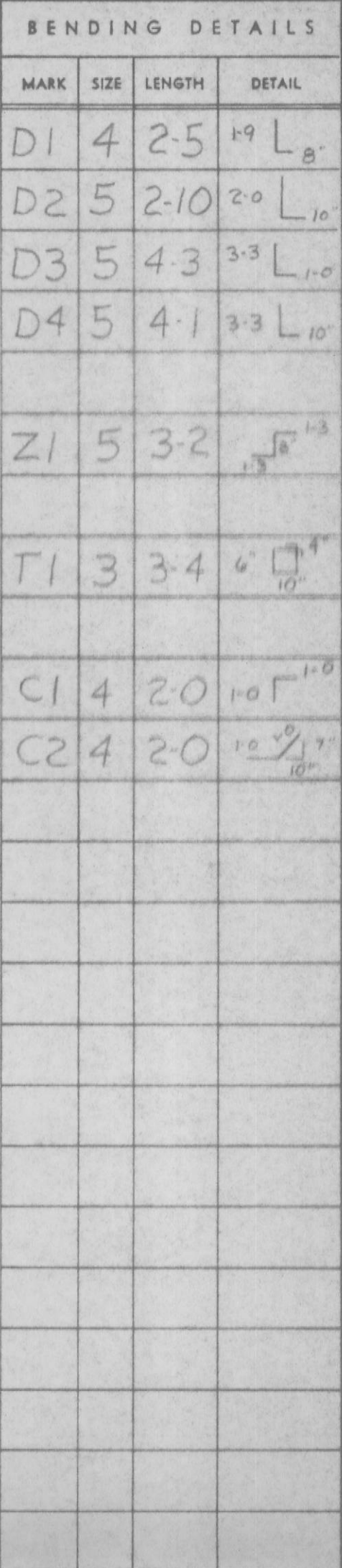
DRAWN BY: J.R. DATE: 9-8-86

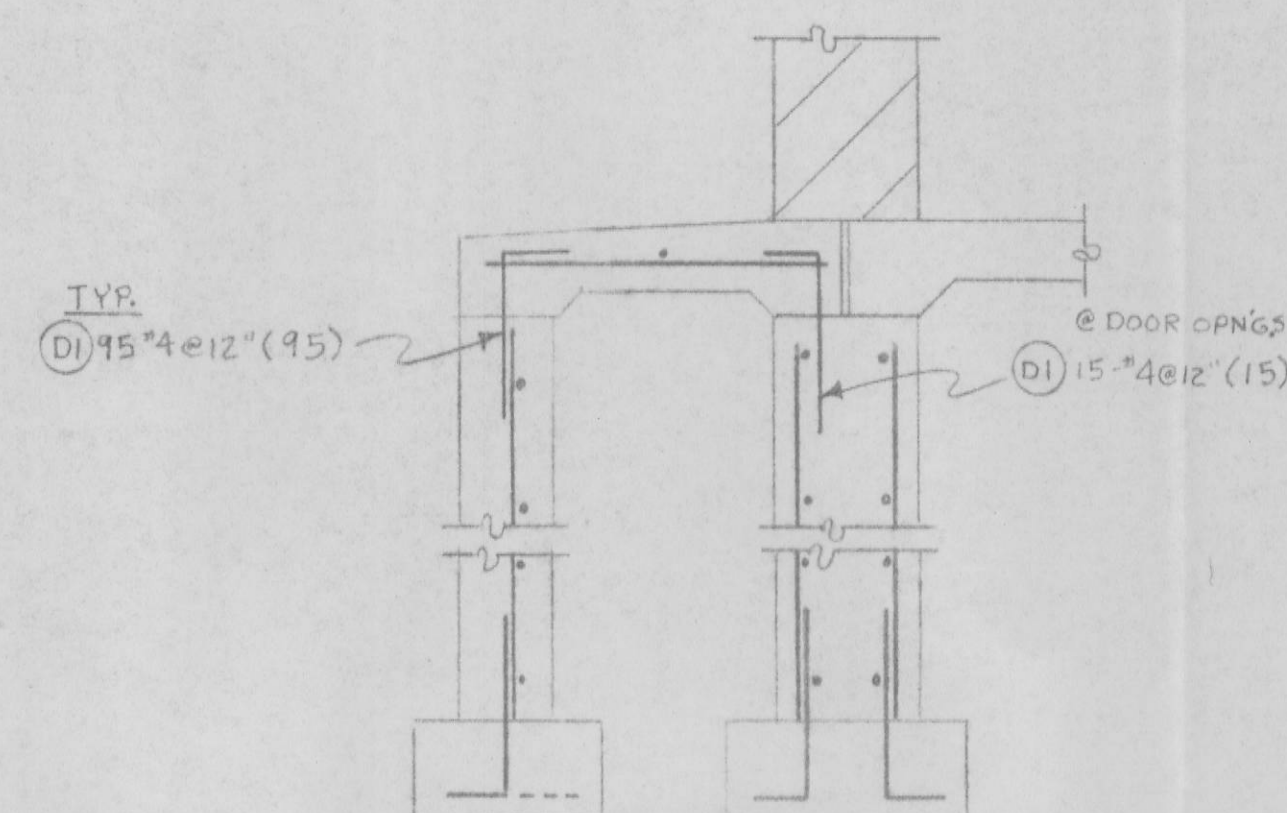
REVISED

SHEET: 2

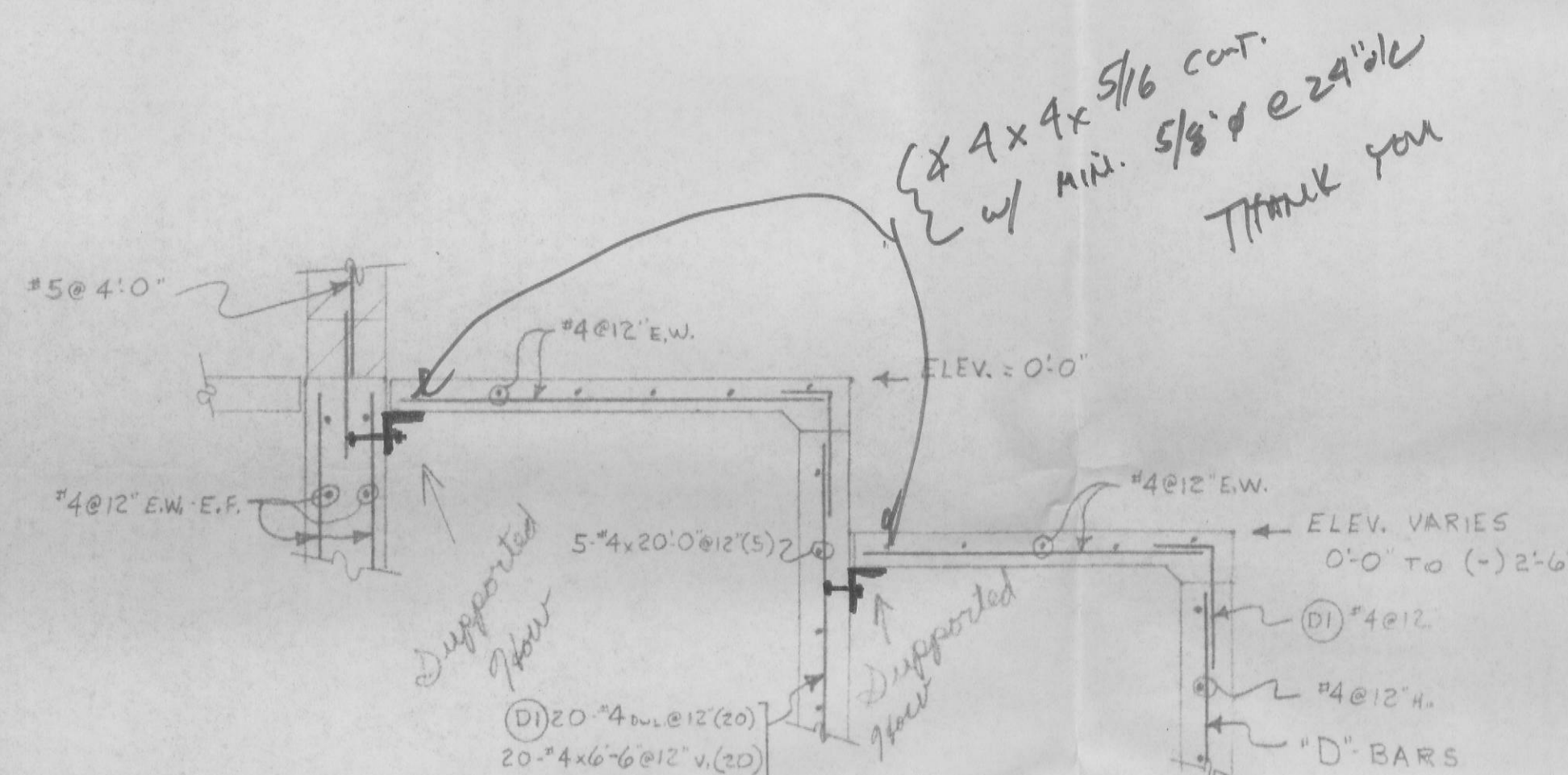
24 DIA. LAP
*4-1'-0"
*5-1'-3"

ALL REINFORCING STEEL TO MEET
ASTM SPECIFICATION 60

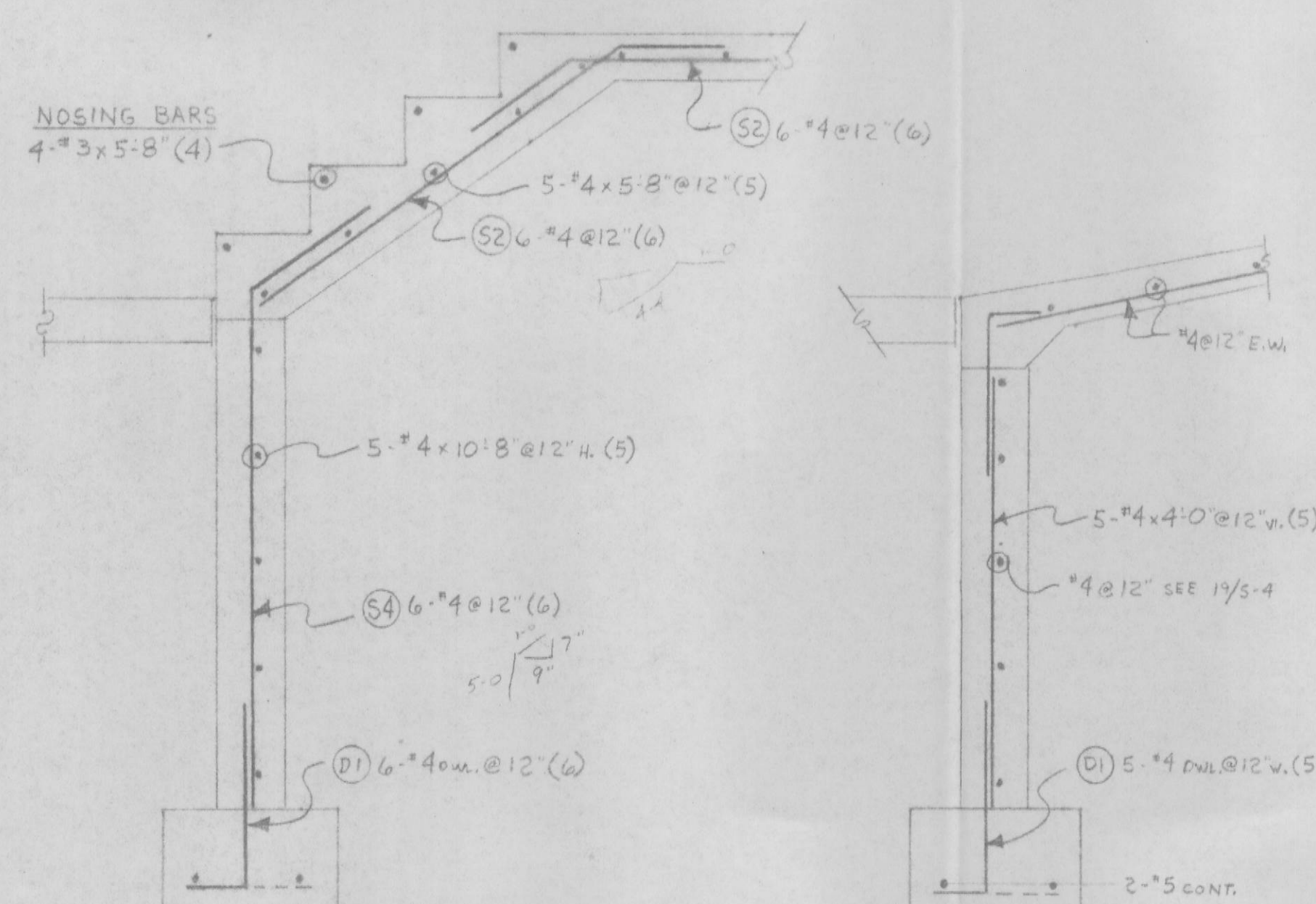


[illegible]

SECTION 13
5-4



SECTION "D"-"D"



SECTION 19
S-4

SECTION E

"D"-BARS
20.4 @ 12" v

6-6 (1)	5-2 (1)
6-4 (1)	5-1 (1)
6-3 (1)	4-11 (1)
6-2 (1)	4-9 (1)
6-0 (1)	4-8 (1)
5-10 (1)	4-6 (1)
5-9 (1)	4-5 (1)
5-7 (1)	4-3 (1)
5-5 (1)	4-2 (1)
5-4 (1)	4-0 (1)

EXT. RAMP + DOCK @ H-10

Wisconsin WIRE & STEEL INC
4320 N. 126th ST. BROOKFIELD, WIS.
414-781-4600 ZIP 53005

PROJECT. CUB FOODS
NAKOOSA TRIAL &
COMMERCIAL AVE. (EAST) MADISON, WISC

CONTRACTOR KRAEMER BROS.

ARCHITECT PLANMARK

DRAWN BY J. R.	DATE 9-9-86	1
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REvised _____ SHEET. 4

24 DIA. LAP
#1 4 = 1'-0"
#1 5 = 1'-3"

ALL REINFORCING STEEL
TO MEET
ASTM SPECIFICATION 60

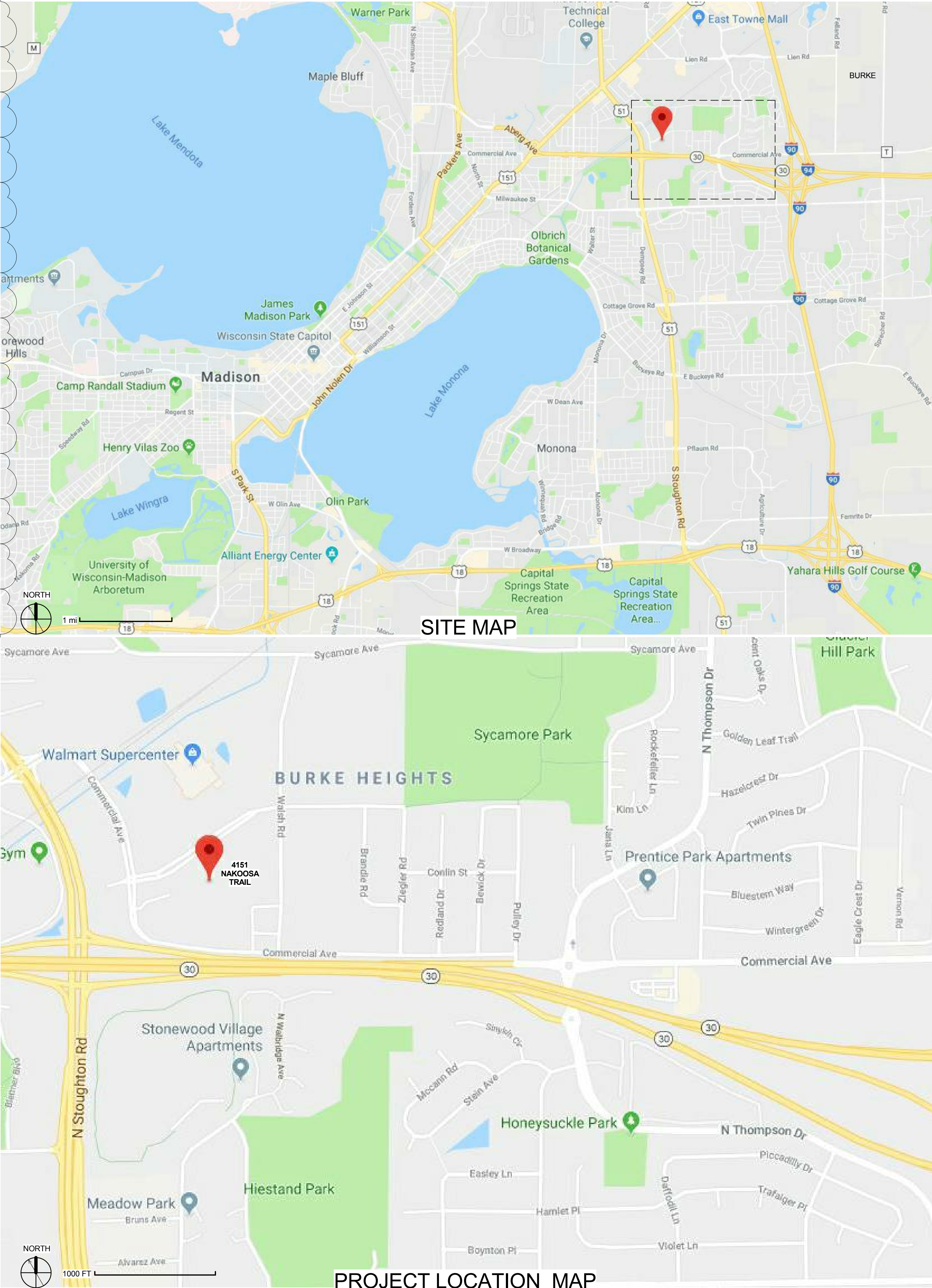
SHEET

CITY OF MADISON
NAKOOSA TRAIL FLEET/FIRE/RADIO SHOP FACILITY

4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714

CONTRACT NO.: 7528
MUNIS NO.: 10305

ISSUE FOR BID
FEBRUARY 7, 2019



JAMES WHITNEY
JWHITNEY@CITYOFMADISON.COM
200 N FIRST STREET
MADISON, WISCONSIN 53704

ARCHITECTURE
STANTEC
1600 WILSON BOULEVARD
SUITE 360
ARLINGTON, VA, 22209
P 571.290.7679

EQUIPMENT
HDR
17725 KATY FREEWAY
SUITE 102
HOUSTON, TEXAS 77094
P 832.327.6006

STRUCTURE
MEAD & HUNT
2440 DEMING WAY
MIDDLETON, WI 53562-1562
P 608.273.6380

MEP / FIRE PROTECTION
MEAD & HUNT
2440 DEMING WAY
MIDDLETON, WI 53562-1562
P 608.273.6380

CIVIL / LANDSCAPE
STRAND ASSOCIATES, INC.
910 W. WINGRA DRIVE
MADISON, WI 53715
P: 608.251.4843

COST ESTIMATING
MIDDLETON CONSTRUCTION
CONSULTANTS
330 E KILBOURN AVE
SUITE 562, MILWAUKEE, WI
53202
P 414.716.4400

PUBLIC IMPROVEMENT PROJECT APPROVED: RES - _____ FILE ID _____ DATE _____ BY THE COMMON COUNCIL OF MADISON, WI	PUBLIC IMPROVEMENT DESIGN APPROVED BY: _____ CITY ENGINEER _____ DATE
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CIVIL AND LANDSCAPE



ARCHITECTURAL AND EQUIPMENT



STRUCTURAL



MECHANICAL



PLUMBING



ELECTRICAL



PLACE SIGNED SEALS IN SQUARES ABOVE

CITY OF MADISON
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA: 117,946 GROSS SF
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
ARCHITECTURE

2	ADDENDUM 2	03/05/2019
B	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019
No.	REVISION/SUBMISSION	DATE
PROJECT No: 376603		

COVER SHEET

G-001

BUILDING CODE DATA

AUTHORITY HAVING JURISDICTION
CITY OF MADISON, WISCONSIN

APPLICABLE CODES
INTERNATIONAL BUILDING CODE, 2015 EDITION
INTERNATIONAL PLUMBING CODE, 2015 EDITION
INTERNATIONAL MECHANICAL CODE, 2015 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION
INTERNATIONAL FIRE CODE, 2015 EDITION
INTERNATIONAL FUEL GAS CODE, 2015 EDITION
ICC/ANSI A117.1-2009 AMERICAN NATIONAL STANDARD

BUILDING USE CLASSIFICATIONS
MOTOR VEHICLE REPAIR
GROUP S-1 (STORAGE)
GROUP B (BUSINESS)
GROUP H-4 (HIGH HAZARD)
NO SEPARATION REQUIREMENTS BETWEEN S-1 AND H-4 WITH AUTOMATIC SPRINKLER SYSTEM (IBC TABLE 508.4)
1 HOUR SEPARATION BETWEEN S-1 AND H-4 WITH AUTOMATIC SPRINKLER SYSTEM (IBC TABLE 508.4)
NO SEPARATION REQUIREMENT BETWEEN ACCESSORY OCCUPANCIES AND MAIN OCCUPANCY WITH AUTOMATIC SPRINKLER SYSTEM (IBC 508.4)
GROUP H-4 OCCUPANCIES SHALL BE SEPARATED FROM ALL OCCUPANCIES IN ACCORDANCE WITH SECTION 508.4

SPRINKLERING
AUTOMATIC SPRINKLER SYSTEM THROUGHOUT (SECTION 903 AND NFPA 13)
PORTABLE FIRE EXTINGUISHERS COMPLYING WITH SECTION 906 SHALL BE PROVIDED FOR SPRAYING AREAS IN ACCORDANCE WITH REQUIREMENTS FOR AN EXTRA (HIGH) HAZARD OCCUPANCY (CFC 1504.4.1)
SEPERATE SPRINKLER PLAN & PERMIT WILL BE SUBMITTED SEPARATELY BY CONTRACTOR

BUILDING HEIGHT
ALLOWED: 75 FEET/3 STORIES (IBC 504.3 WITH AUTOMATIC SPRINKLER SYSTEM INCREASE)
PROPOSED: 1 STORY WITH MEZZANINE

BUILDING AREA
ALLOWED: 17,500 SF (IBC TABLE 506.2)
AREA INCREASE (SECTION 506.1)
Aa= (A1 + (A2 x 10) + (A3 x 10))
Aa= (17,500 + (17,500 x 0.75) + (17,500 x 3))
Aa= 83,125 SF - ALLOWABLE (PER FLOOR)

PROPOSED: 81,820 (1ST FLOOR) + 20,826 (1ST FLOOR) + 13,290 (MEZZANINE) + 2,010 (STORAGE BLDG.) = 117,946 GROSS SQUARE FOOTAGE

TYPE OF CONSTRUCTION
TYPE II - B - NON-COMBUSTIBLE MATERIALS (IBC 602)

FIRE RESISTANCE RATINGS TABLE (TABLE 601)

ELEMENT	MATERIAL	RATING
PRIMARY STRUCTURAL FRAME	NONCOMBUSTIBLE	0 HR
EXTERIOR BEARING WALLS	NONCOMBUSTIBLE	0 HR
INTERIOR BEARING WALLS	NONCOMBUSTIBLE	0 HR
EXTERIOR NONBEARING WALLS AND PARTITIONS	SEE TABLE 602	
INTERIOR NONBEARING WALLS AND PARTITIONS	NONCOMBUSTIBLE	0 HR
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	NONCOMBUSTIBLE	0 HR
ROOF CONSTRUCTION AND SECONDARY MEMBERS	NONCOMBUSTIBLE	0 HR

FIRE RESISTIVE REQUIREMENTS FOR EXTERIOR BEARING WALLS (TABLE 602)

FIRE SEPARATION DISTANCE = X (FEET)	TYPE OF CONSTRUCTION	OCCUPANCY (S-1)
X < 5'	ALL	2 HOUR
5' <= X < 10'	I-B	1 HOUR
10' <= X < 30'	I-B	0 HOUR
X >= 30'	I-B	0 HOUR

PROVIDING SEPARATION GREATER THAN 30', ALL LOCATIONS

PROTECTED OPENING
PER IBC TABLE 704.10 - BUILDINGS WHOSE EXTERIOR BEARING WALL, EXTERIOR NO-BEARING WALL AND EXTERNAL STRUCTURAL FRAME ARE NOT REQUIRED TO BE FIRE-RESISTANCE RATED BY TABLE 601 OR 602 SHALL BE PERMITTED TO HAVE UNLIMITED UNPROTECTED OPENINGS.

OCCUPANT LOADS (IBC 1004) FOR PROJECT AREAS

NAME	OCC	AREA	RATIO	TOTAL
LEVEL 1				
OFFICE	B	19,231 S.F.	100 SFOCC	193 OCC
CONFERENCE	B	838 S.F.	15 SFOCC	43 OCC
STORAGE	S-1	1,484 S.F.	300 SFOCC	5 OCC
TRAINING	B	770 S.F.	20 SFOCC	39 OCC
CONFERENCE	A-3	2,705 S.F.	15 SFOCC	181 OCC
BREAK	A-3	1,422 S.F.	15 SFOCC	85 OCC
LEVEL 1 TOTAL				556 OCC
PROJECT TOTAL				1,389 OCC

EGRESS WIDTH
THE MINIMUM WIDTH FOR EGRESS COMPONENTS IN A BUILDING EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IS 0.3 INCHES FOR STAIRWAYS (1005.3.1) AND 0.2 INCHES FOR OTHER EGRESS COMPONENTS (1005.3.2).
36" WIDE EXIT DOORS PROVIDE A 33" CLEAR EXIT WIDTH WHICH CAN ACCOMMODATE 330/2 = 165 OCCUPANT LOAD
EGRESS DOOR WIDTH REQUIRED = 114 OC' 0.2 = 22.8, MIN REQUIRED = 33"
EGRESS DOOR WIDTH PROVIDED = 5 SINGLE LEAF DOORS AND 1 DOUBLE LEAF DOOR FOR 231"

STAIR WIDTH
MINIMUM STAIR WIDTH = NOT LESS THAN 44", EXCEPT SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL HAVE A WIDTH OF NOT LESS THAN 36" (1011.2, EXCEPTION 1)
STAIRWAY WIDTH PROVIDED = 48"

COMMON PATH OF TRAVEL
MAXIMUM COMMON PATH OF TRAVEL = 100' FOR USE GROUP B AND S.
MAXIMUM COMMON PATH OF TRAVEL = 75' FOR USE GROUP H-4.

EXIT ACCESS
MAXIMUM EXIT ACCESS TRAVEL DISTANCE ALLOWED = 250'

CORRIDORS
PER IBC TABLE 1020.1, CORRIDORS IN GROUP S OCCUPANCIES SERVING GREATER THAN 30 OCCUPANTS WITH A SPRINKLER SYSTEM ARE NOT REQUIRED TO BE FIRE-RESISTIVE RATED
MINIMUM CORRIDOR WIDTH = NOT LESS THAN 44" MINIMUM ALLOWABLE DEAD END CORRIDOR = 50' (IBC 1020.4, EXCEPTION 2)
CORRIDOR WIDTH PROVIDED = 4'-8", NO DEAD END CORRIDORS

CODE LEGEND

1 HOUR FIRE BARRIER
2 HOUR FIRE BARRIER
3 HOUR FIRE BARRIER
4 HOUR FIRE BARRIER

ROUTE A EXIT DIST.
EXTINGUISHER ROUTE
MAX BLDG DIAG

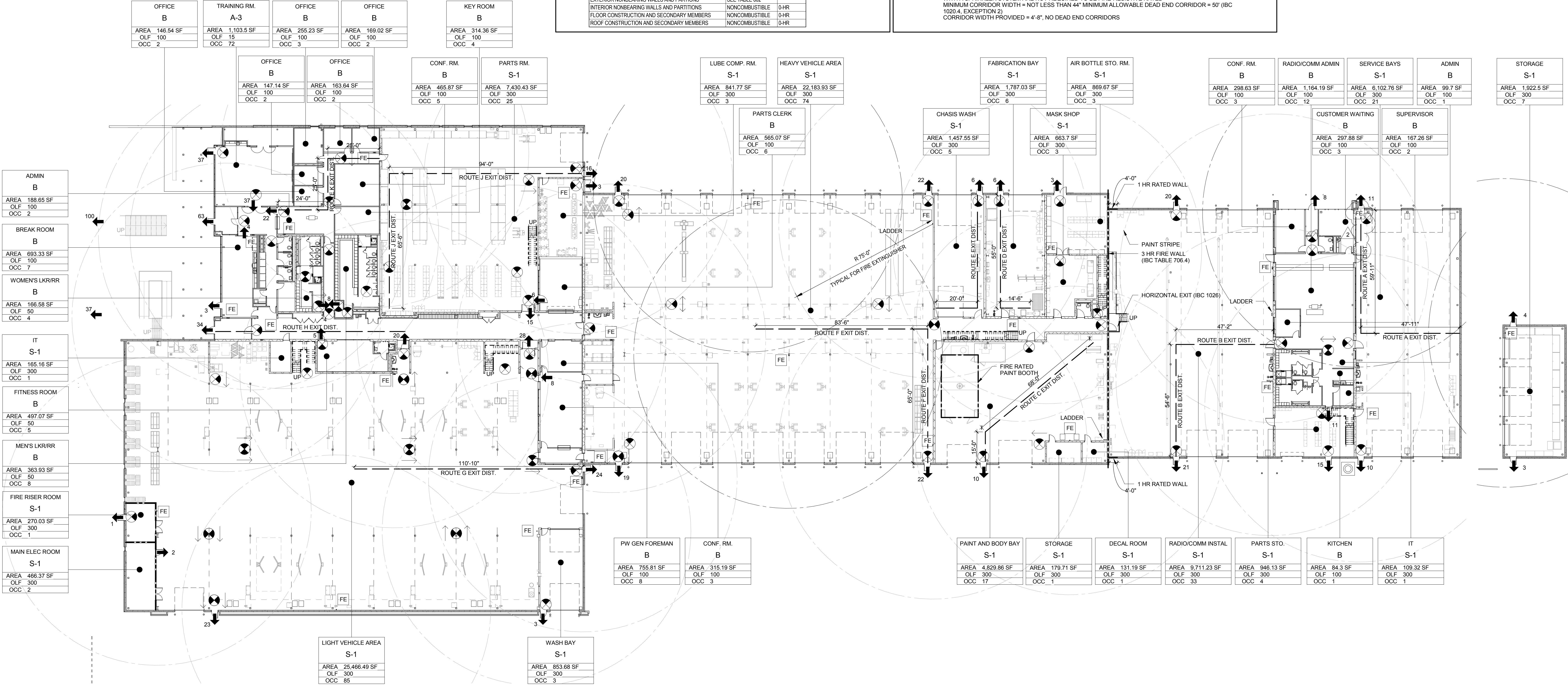
TRAVEL PATH TO EXIT
TRAVEL PATH TO EXTINGUISHER
BUILDING DIAGONAL

ASSEMBLY A-3
AREA 528 SF
OLF 15
OCC 36

OCCUPANCY CLASSIFICATION
AREA
OCCUPANCY LOAD FACTOR
NUMBER OF OCCUPANTS

EGRESS ACCESS & COMMON PATH OF TRAVEL

CODE TRAVEL NAME	CODE DISTANCES
ROUTE A EXIT DIST.	127'-10"
ROUTE B EXIT DIST.	123'-5"
ROUTE C EXIT DIST.	82'-4"
ROUTE D EXIT DIST.	89'-6"
ROUTE E EXIT DIST.	75'-0"
ROUTE F EXIT DIST.	148'-6"
ROUTE G EXIT DIST.	110'-6"
ROUTE H EXIT DIST.	92'-1"
ROUTE J EXIT DIST.	159'-6"
ROUTE K EXIT DIST.	74'-0"
ROUTE L EXIT DIST.	133'-9"
ROUTE M EXIT DIST.	188'-0"
ROUTE N EXIT DIST.	207'-0"
ROUTE P EXIT DIST.	343'-2"
ROUTE Q EXIT DIST.	135'-7"
CPOT 1	91'-6"
CPOT 2	59'-7"



A1 LEVEL 1 LIFE SAFETY PLAN
3/8" = 1'-0"

Stantec

1600 WILSON BLVD.
SUITE 360
ARLINGTON, VA 22209
571.290.7679

CITY OF MADISON
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA: 117,946 GROSS SF
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
ARCHITECTURE

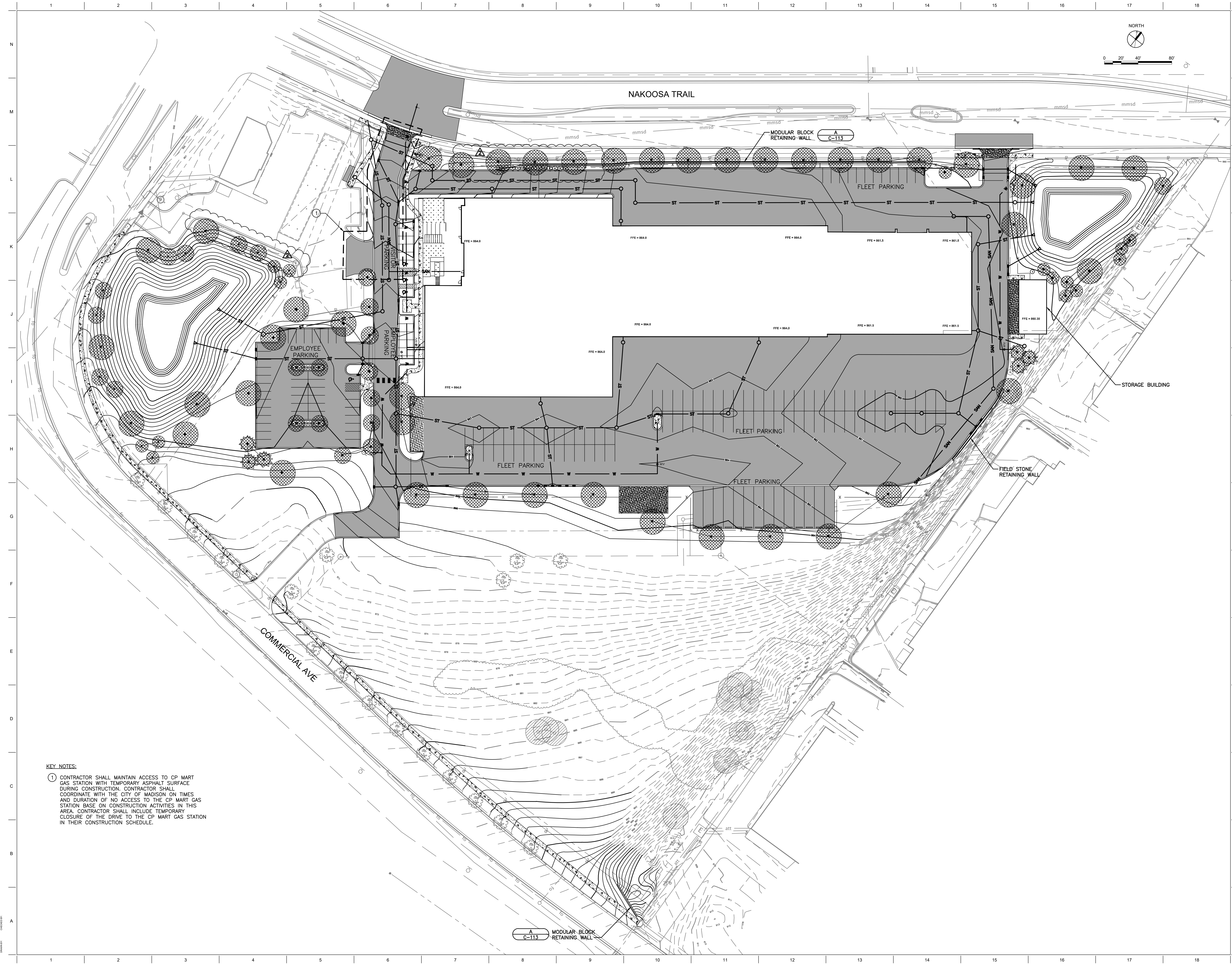
2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	DSPS RESPONSE 1	01/28/2019
	ISSUE FOR PERMIT	01/17/2019

No. REVISION/SUBMISSION DATE

PROJECT No: 376603

CODE AND LIFE SAFETY INFORMATION

G-003



KEY NOTES:

① CONTRACTOR SHALL MAINTAIN ACCESS TO CP MART GAS STATION WITH TEMPORARY ASPHALT SURFACE DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE CITY OF MADISON ON TIMES AND DURATION OF NO ACCESS TO THE CP MART GAS STATION BASE ON CONSTRUCTION ACTIVITIES IN THIS AREA. CONTRACTOR SHALL INCLUDE TEMPORARY CLOSURE OF THE DRIVE TO THE CP MART GAS STATION IN THEIR CONSTRUCTION SCHEDULE.

RNL

1600 WILSON BLVD.
SUITE 360
ARLINGTON, VA 22209
571.290.7679

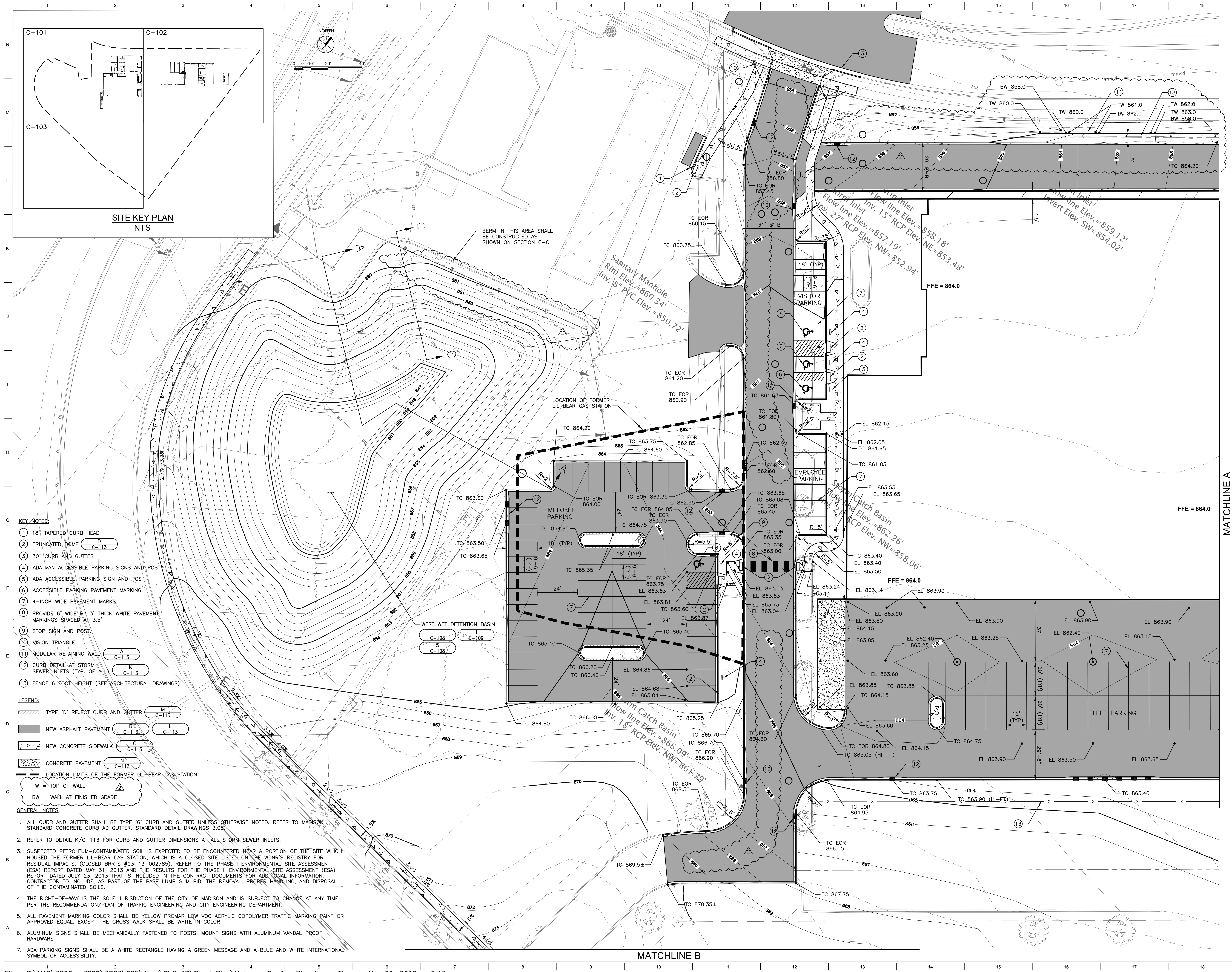
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA 1
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714



ADDENDUM NO. 2		3/5/19
ISSUE FOR BID		2/7/19
No.	REVISION/SUBMISSION	DATE
PROJECT No: 376603		
AREA 1		
OVERALL SITE PLAN		

C-100

SD SUBMISSION



RNL

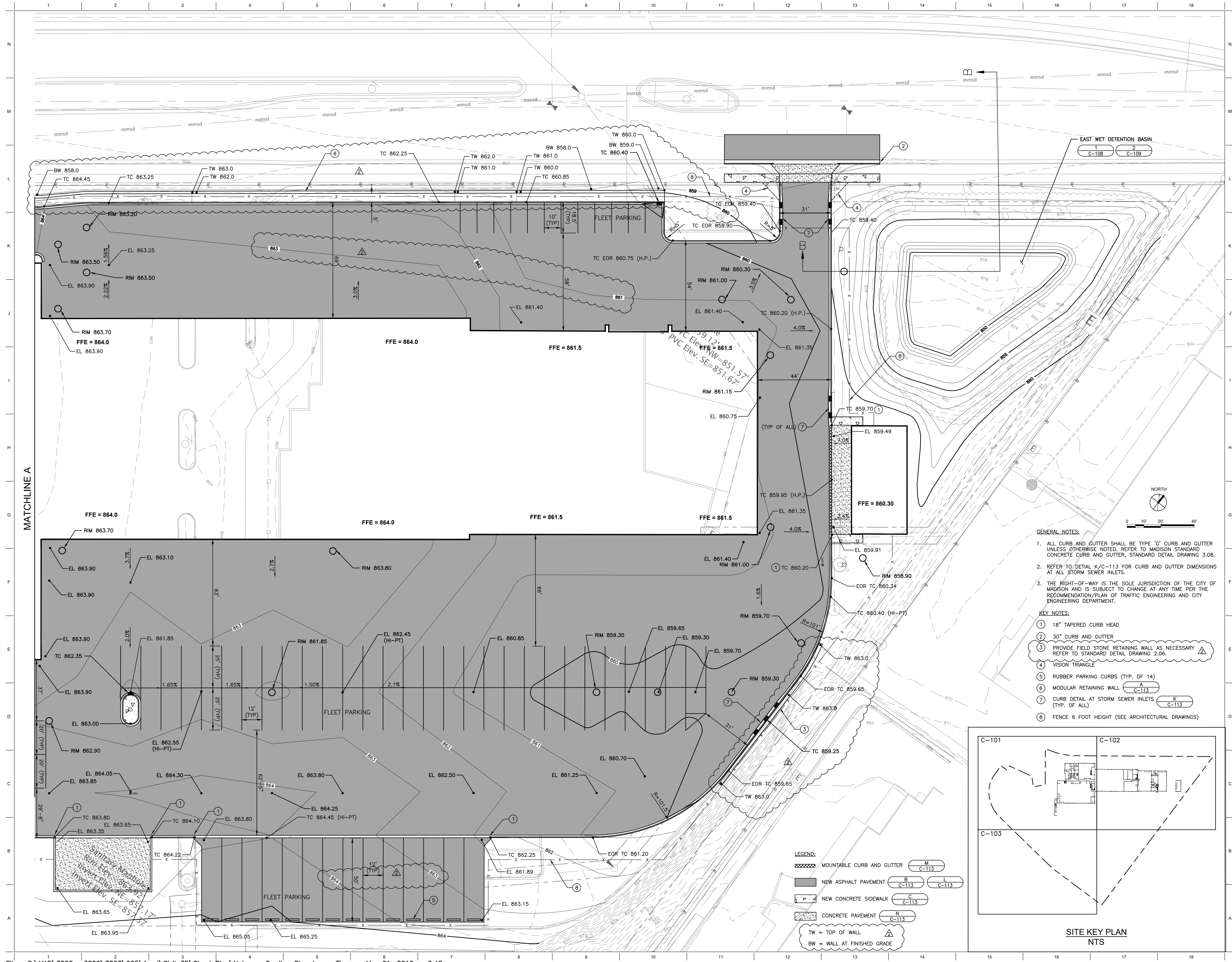
1600 WILSON BLVD.
SUITE 360
ARLINGTON, VA 22209
571.290.7679

CITY OF MADISON
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA 1
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
SD SUBMISSION



ADDENDUM NO. 2	3/5/19
ISSUE FOR BID	2/7/19
REVISION/SUBMISSION	DATE
PROJECT No: 376603	AREA 1
SITE PLAN	

C-101

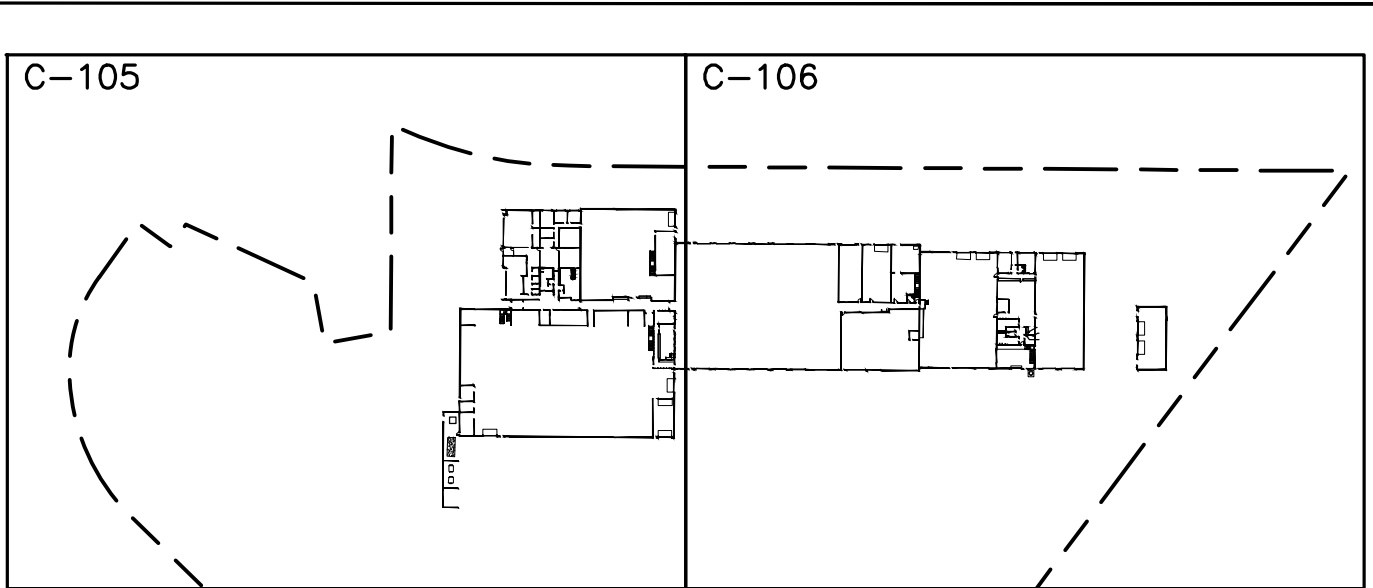
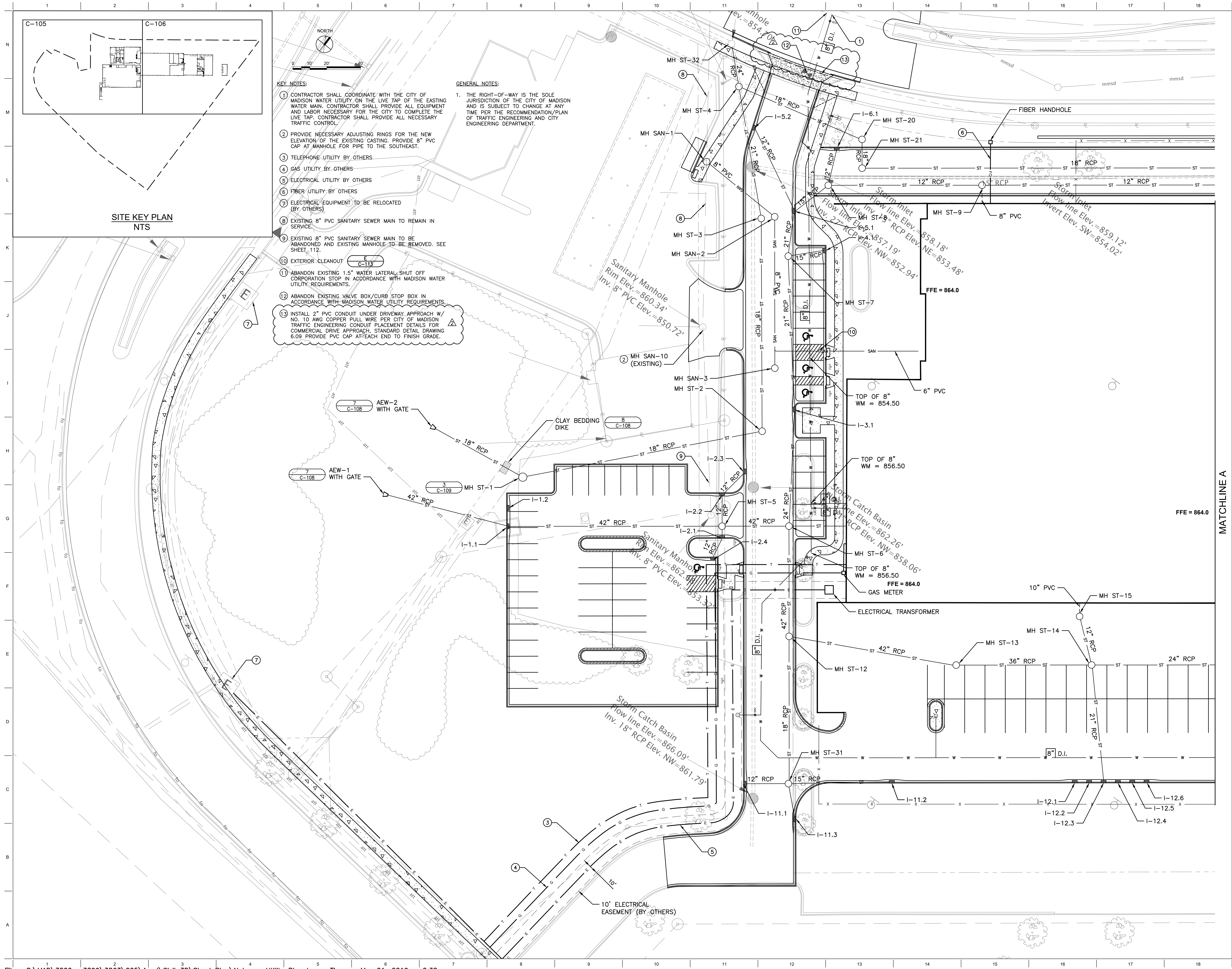


1600 WILSON BLVD.
SUITE 360
ARLINGTON, VA 22209
571 290 7679

CITY OF MADISON
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA 1
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
SD SUBMISSION

ADDENDUM NO. 2
ISSUE FOR BID
REVISION/SUBMISSION
DATE
PROJECT No: 376603
AREA 1
SITE PLAN

C-102



- KEY NOTES:**
1. CONTRACTOR SHALL COORDINATE WITH THE CITY OF MADISON WATER UTILITY ON THE LIVE TAP OF THE EXISTING WATER MAIN. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT AND LABOR NECESSARY FOR THE CITY TO COMPLETE THE LIVE TAP. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL.
 2. PROVIDE NECESSARY ADJUSTING RINGS FOR THE NEW ELEVATION OF THE EXISTING CASTING. PROVIDE 8" PVC CAP AT MANHOLE FOR PIPE TO THE SOUTHEAST.
 3. TELEPHONE UTILITY BY OTHERS.
 4. GAS UTILITY BY OTHERS.
 5. ELECTRICAL UTILITY BY OTHERS.
 6. FIBER UTILITY BY OTHERS.
 7. ELECTRICAL EQUIPMENT TO BE RELOCATED (BY OTHERS).
 8. EXISTING 8" PVC SANITARY SEWER MAIN TO REMAIN IN SERVICE.
 9. EXISTING 8" PVC SANITARY SEWER MAIN TO BE ABANDONED AND EXISTING MANHOLE TO BE REMOVED. SEE SHEET 112.
 10. EXTERIOR CLEANOUT (E C-113).
 11. ABANDON EXISTING 1.5" WATER LATERAL. SHUT OFF CORPORATION STOP IN ACCORDANCE WITH MADISON WATER UTILITY REQUIREMENTS.
 12. ABANDON EXISTING VALVE BOX/CURB STOP BOX IN ACCORDANCE WITH MADISON WATER UTILITY REQUIREMENTS.
 13. INSTALL 2" PVC CONDUIT UNDER DRIVEWAY APPROACH W/ NO. 10 AWG COPPER PULL WIRE PER CITY OF MADISON TRAFFIC ENGINEERING CONDUIT PLACEMENT DETAILS FOR COMMERCIAL DRIVE APPROACH, STANDARD DETAIL DRAWING 6.09. PROVIDE PVC CAP AT EACH END TO FINISH GRADE.

GENERAL NOTES:

1. THE RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANY TIME PER THE RECOMMENDATION/PLAN OF TRAFFIC ENGINEERING AND CITY ENGINEERING DEPARTMENT.

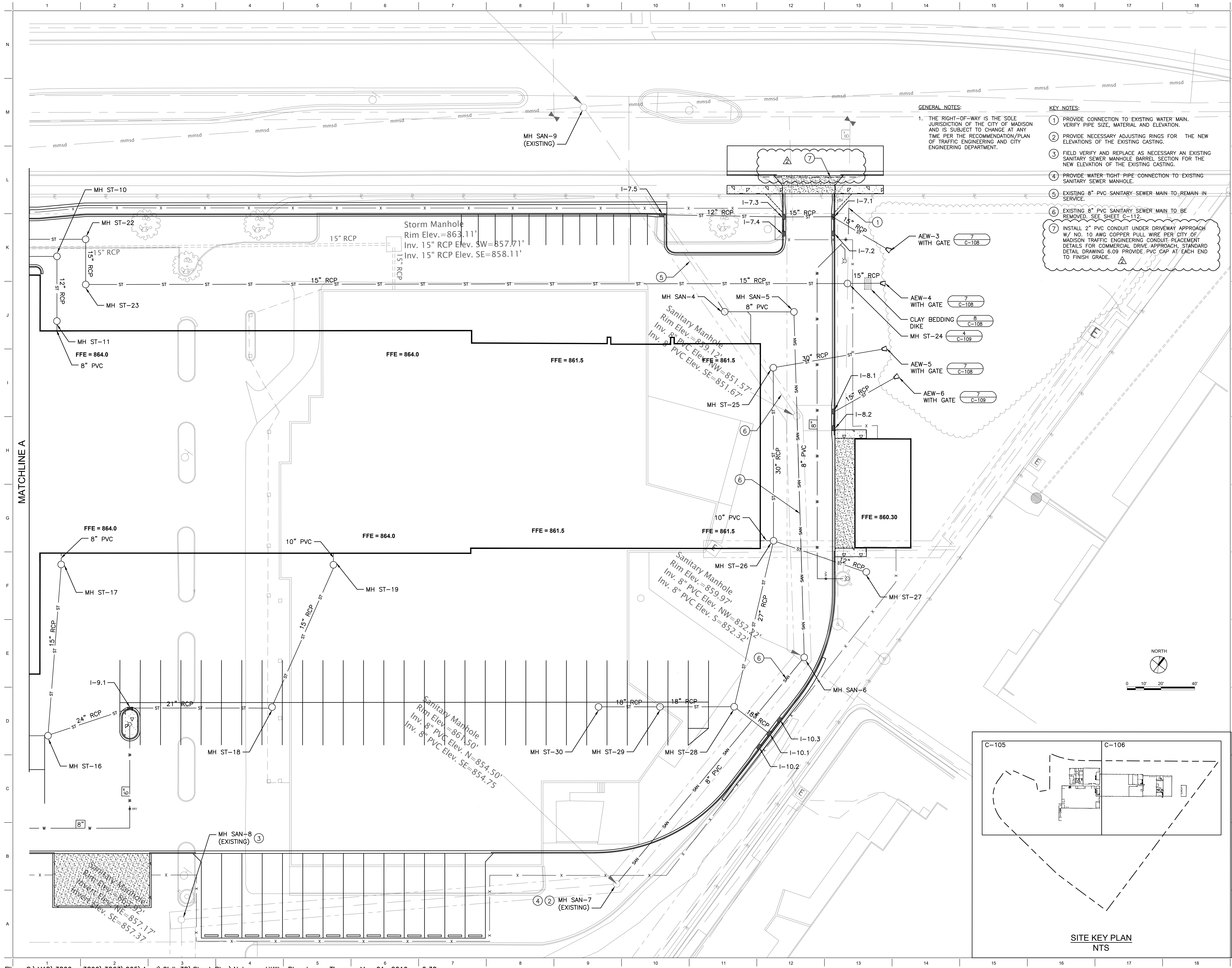
RNL
1600 WILSON BLVD.
SUITE 380
ARLINGTON, VA 22209
571.290.7679

CITY OF MADISON
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA 1
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
SD SUBMISSION



ADDENDUM NO. 2		3/5/19
ISSUE FOR BID		2/7/19
REVISION/SUBMISSION	DATE	
PROJECT No: 376603		
AREA 1		
UTILITY PLAN		

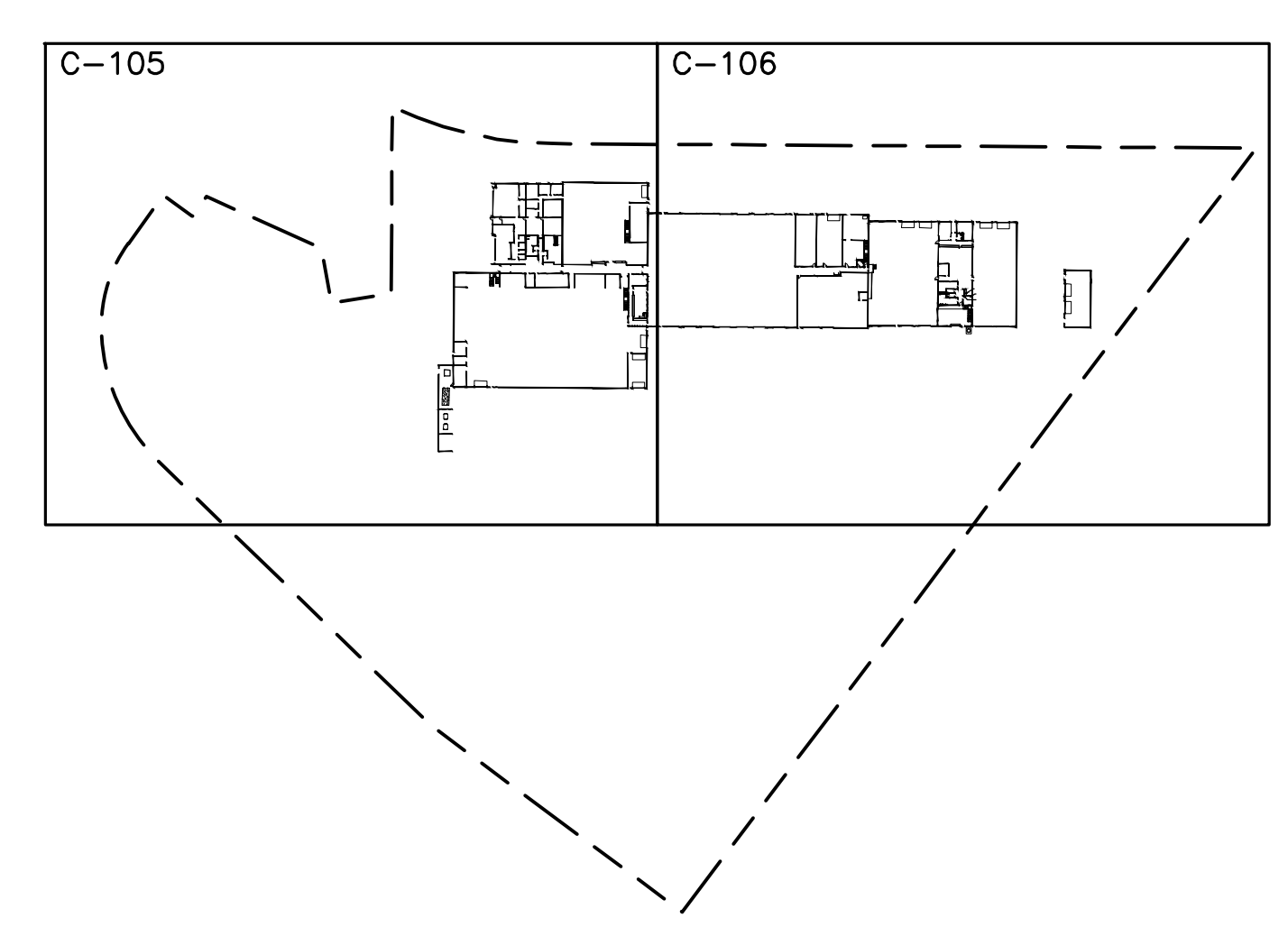
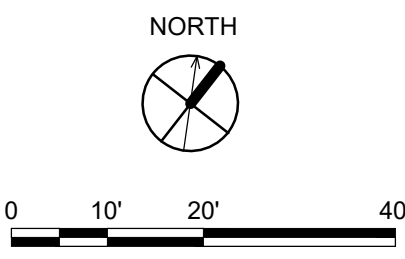
C-105



GENERAL NOTES:

1. THE RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANY TIME PER THE RECOMMENDATION/PLAN OF TRAFFIC ENGINEERING AND CITY ENGINEERING DEPARTMENT.

- KEY NOTES:**
- 1. PROVIDE CONNECTION TO EXISTING WATER MAIN. VERIFY PIPE SIZE, MATERIAL AND ELEVATION.
 - 2. PROVIDE NECESSARY ADJUSTING RINGS FOR THE NEW ELEVATIONS OF THE EXISTING CASTING.
 - 3. FIELD VERIFY AND REPLACE AS NECESSARY AN EXISTING SANITARY SEWER MANHOLE BARREL SECTION FOR THE NEW ELEVATION OF THE EXISTING CASTING.
 - 4. PROVIDE WATER TIGHT PIPE CONNECTION TO EXISTING SANITARY SEWER MANHOLE.
 - 5. EXISTING 8" PVC SANITARY SEWER MAIN TO REMAIN IN SERVICE.
 - 6. EXISTING 8" PVC SANITARY SEWER MAIN TO BE REMOVED. SEE SHEET C-112.
 - 7. INSTALL 2" PVC CONDUIT UNDER DRIVEWAY APPROACH W/ NO. 10 AWG COPPER PULL WIRE PER CITY OF MADISON TRAFFIC ENGINEERING CONDUIT PLACEMENT DETAILS FOR COMMERCIAL DRIVE APPROACH. STANDARD DETAIL DRAWING 6.09 PROVIDE PVC CAP AT EACH END TO FINISH GRADE.



SITE KEY PLAN
NTS

CITY OF MADISON
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA 1
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
SD SUBMISSION



ADDENDUM NO. 2	3/5/19
ISSUE FOR BID	2/7/19
REVISION/SUBMISSION	DATE
PROJECT No: 376603	
AREA 1	
UTILITY PLAN	

C-106



RNL

1800 WILSON BLVD.
SUITE 380
ARLINGTON, VA 22209
571.290.7679

CITY OF MADISON
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA 1
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
SD SUBMISSION



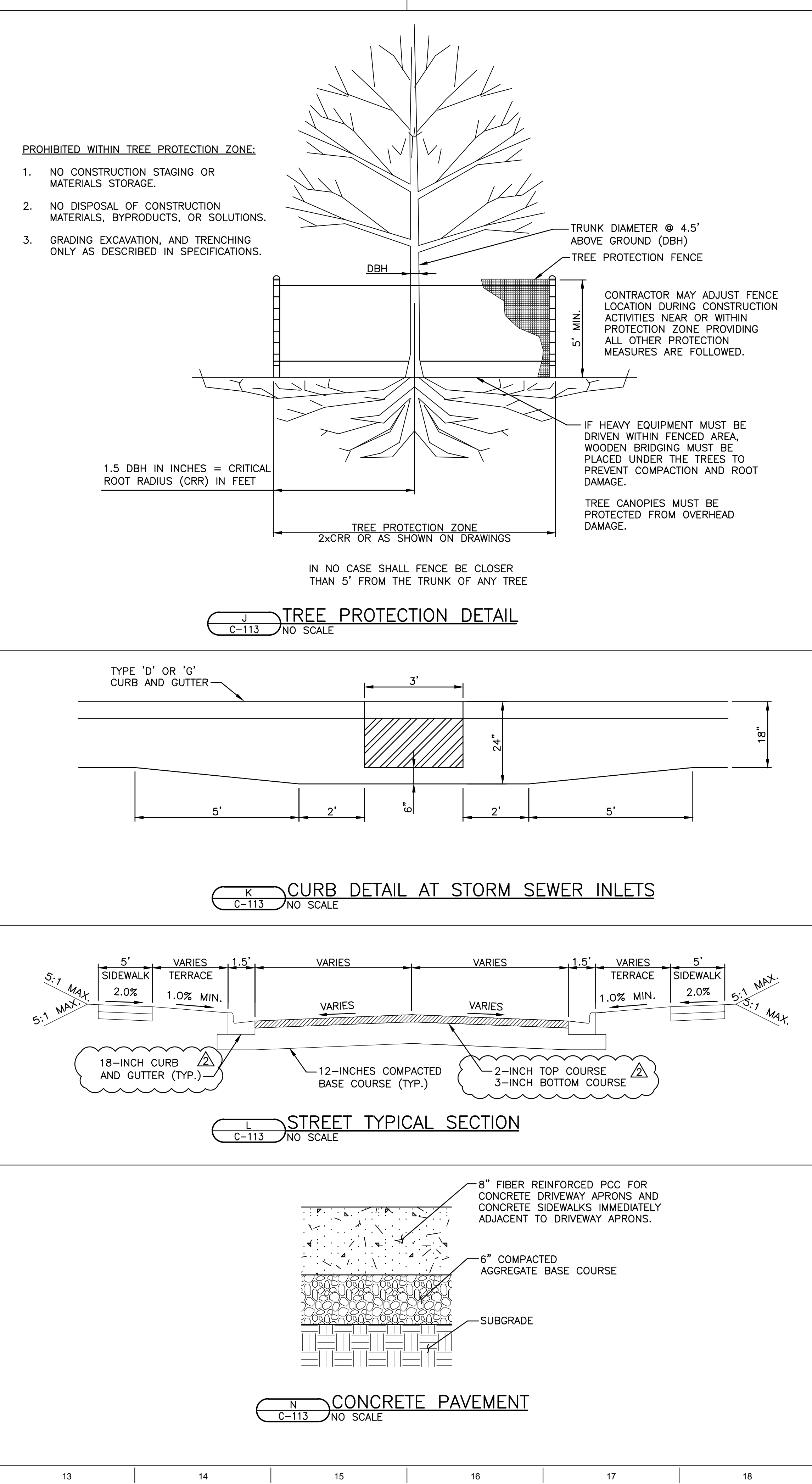
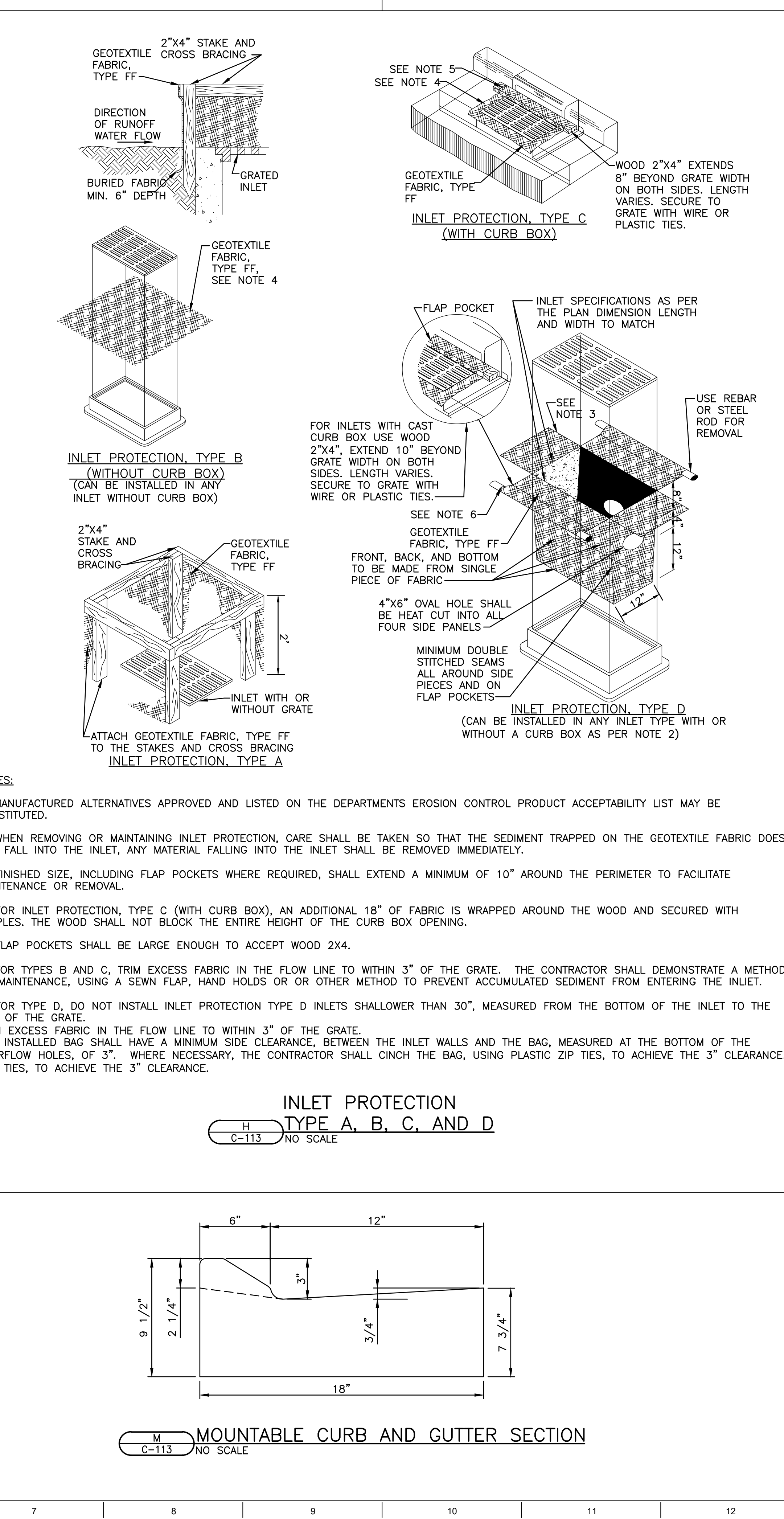
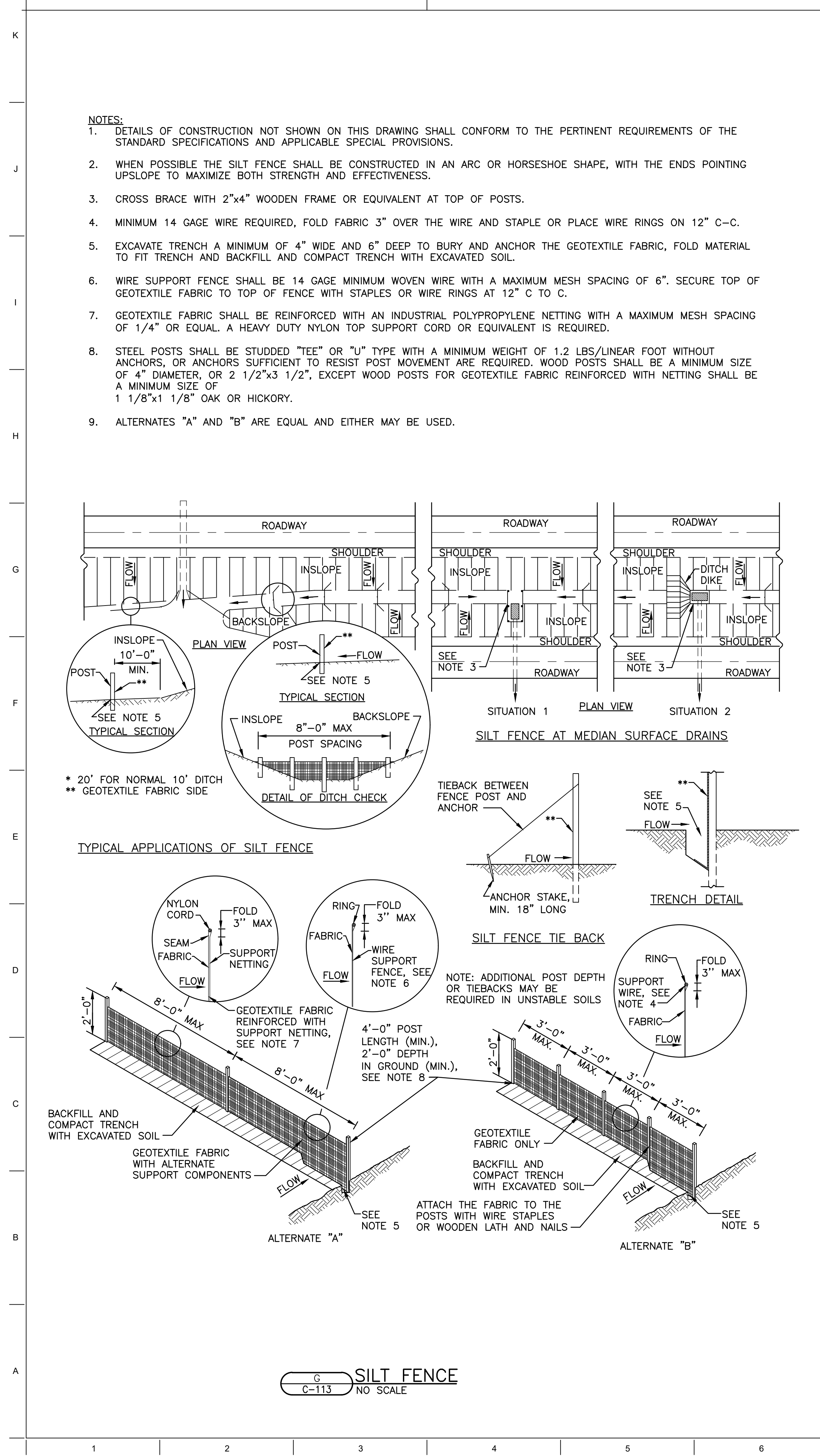
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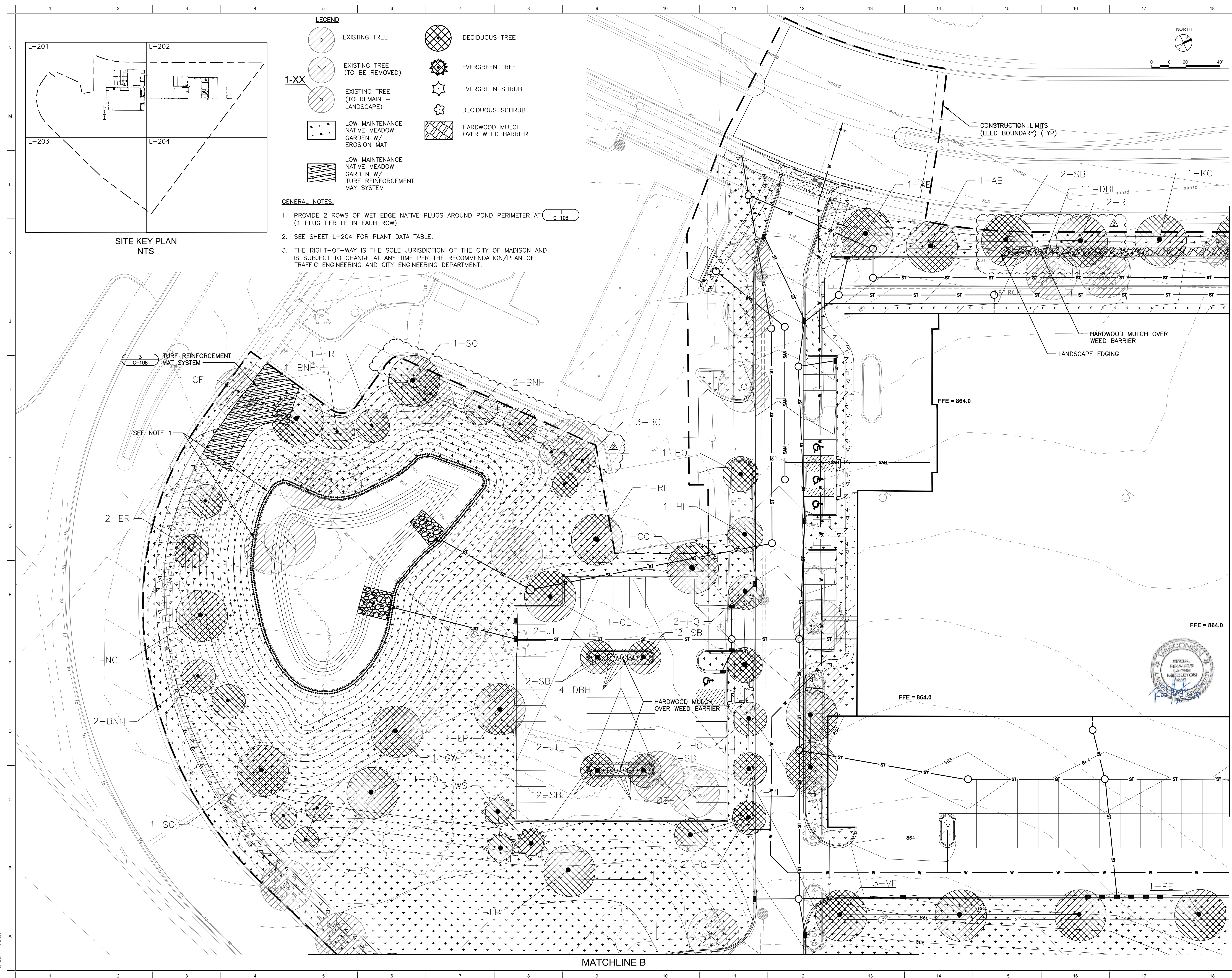
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PROJECT No: 376603

DEMOLITION PLAN

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CITY OF MADISON
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
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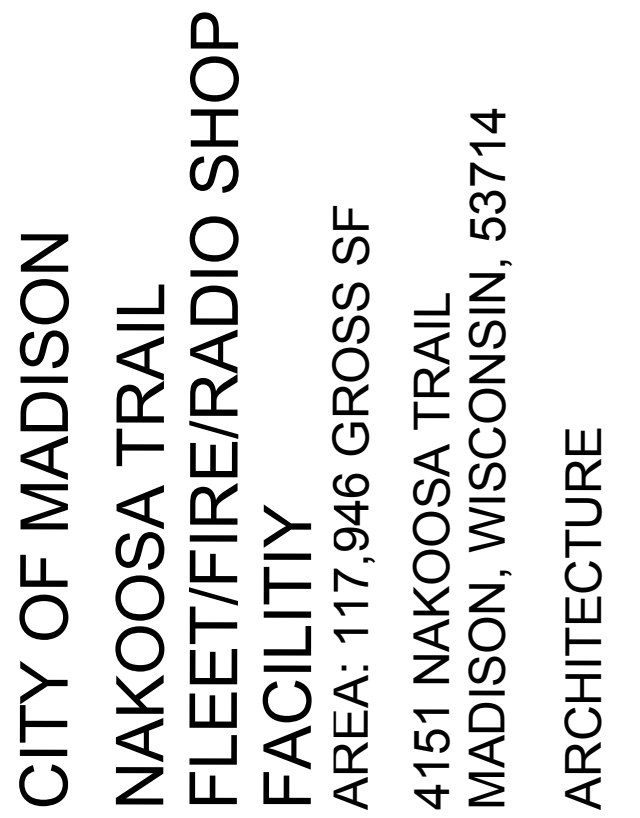
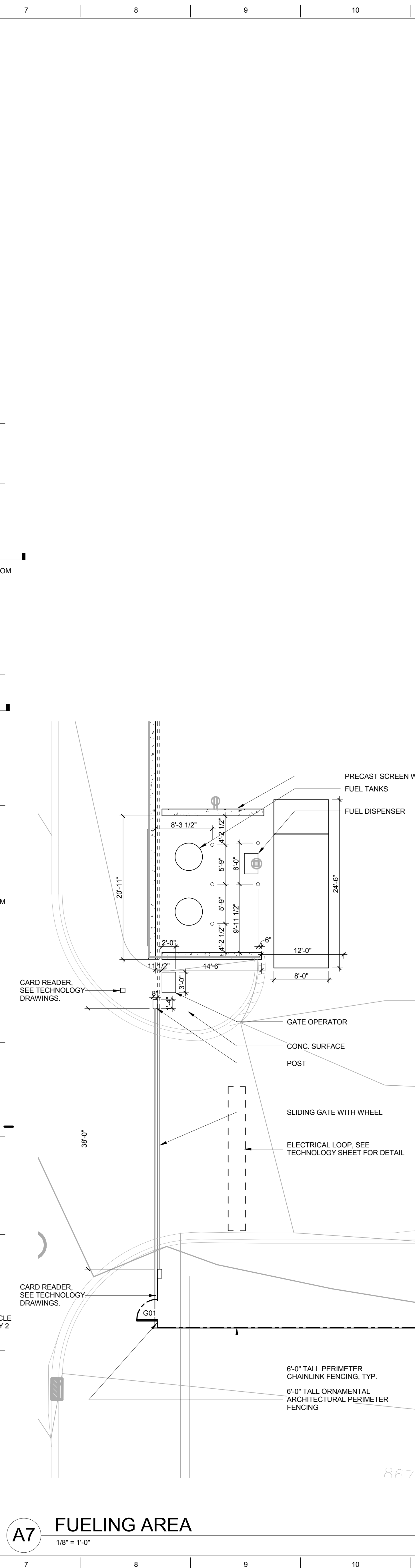
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AREA 1
LANDSCAPING PLAN

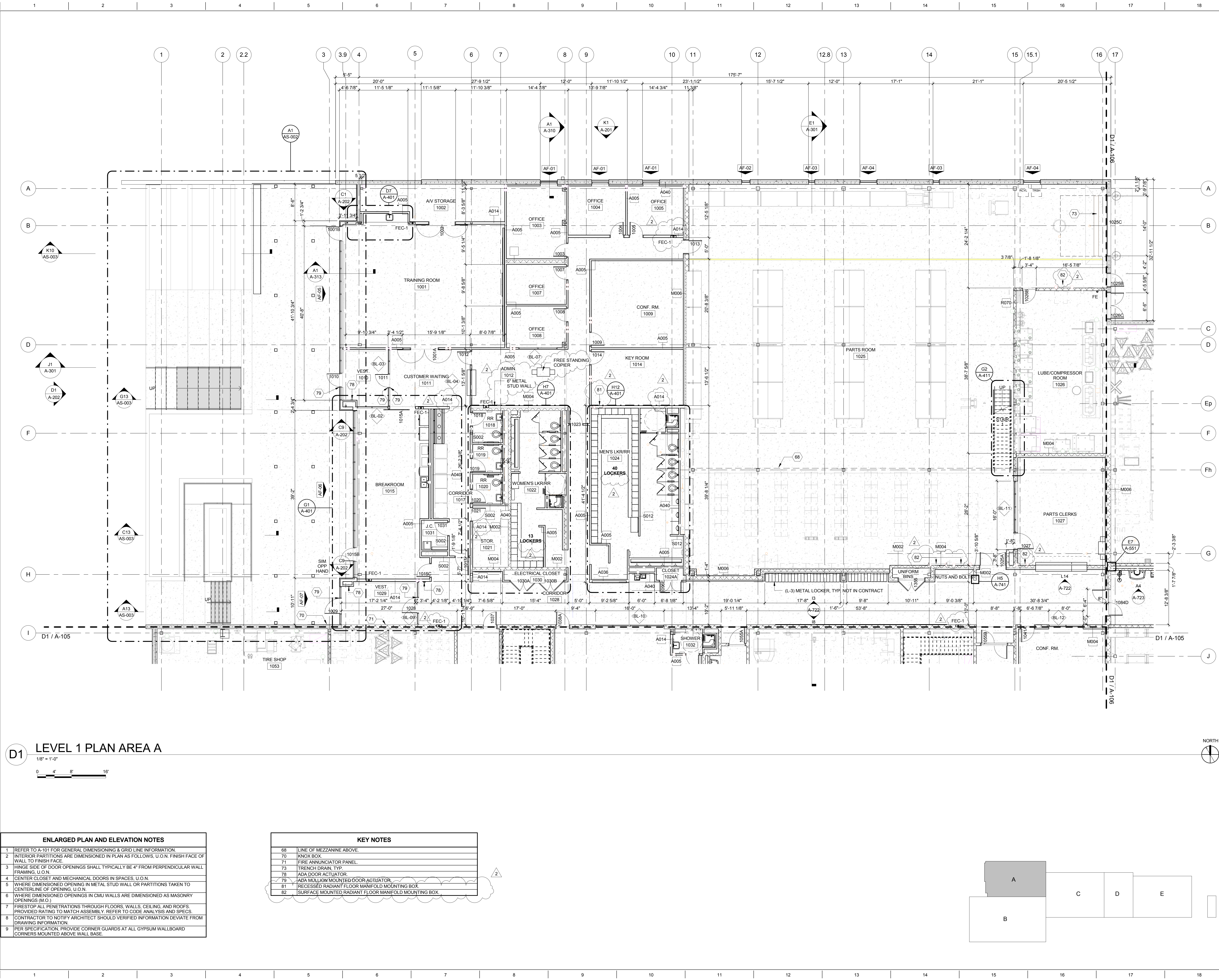
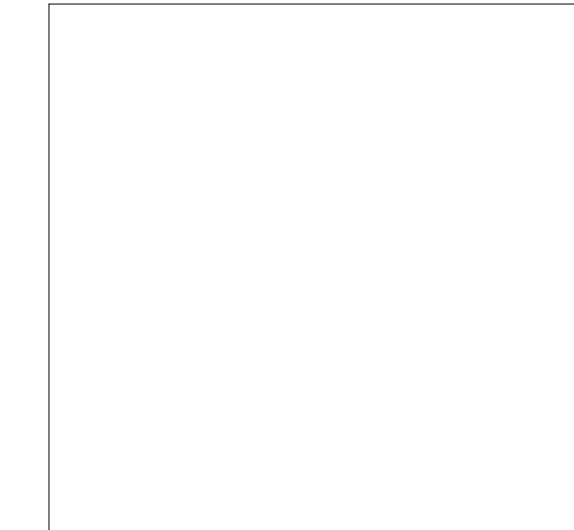
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2	ADDENDUM 2	03/05/2019
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PROJECT No: 376603		

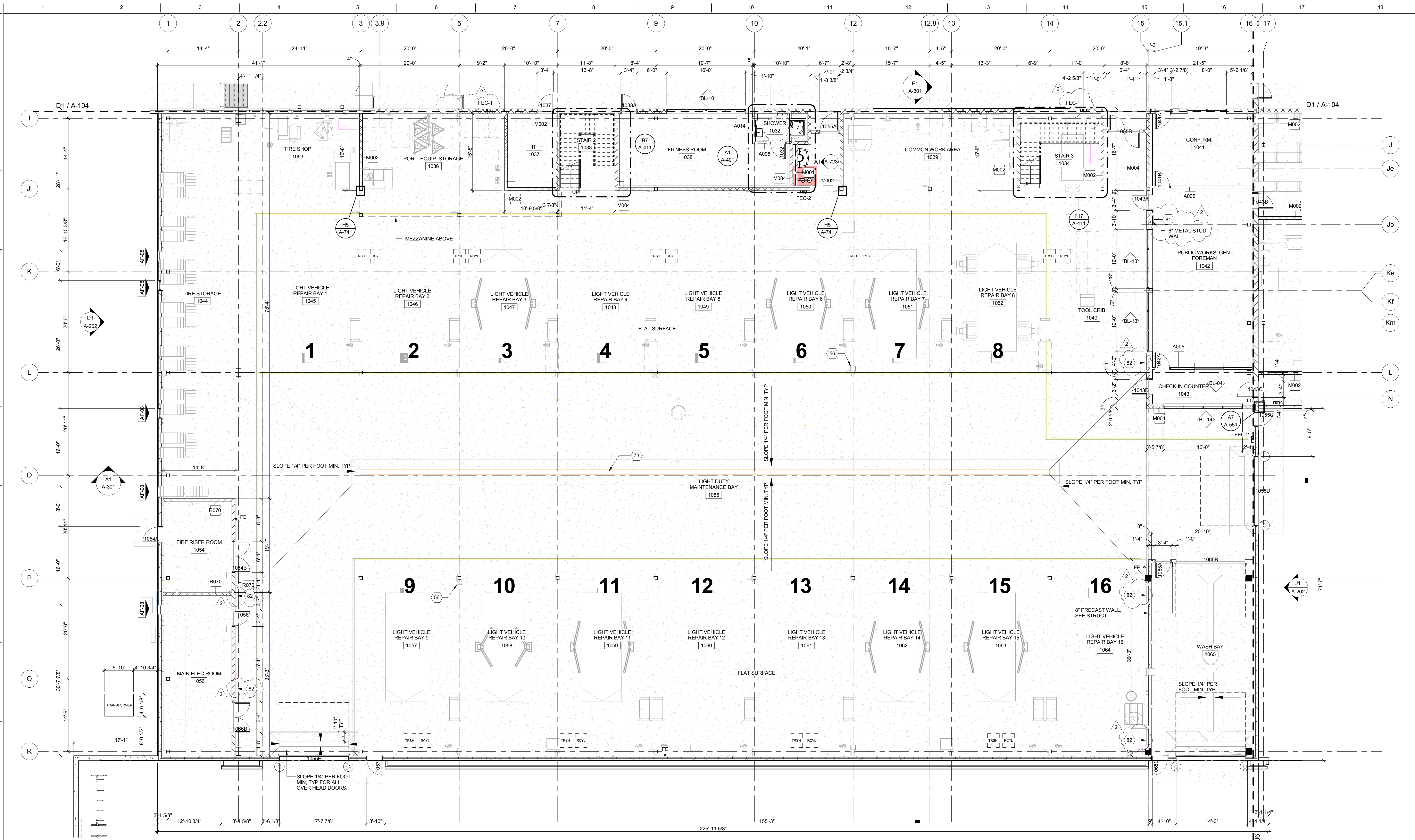
ENLARGED SITE PLAN

AS-002



ENLARGED PLAN AND ELEVATION NOTES	
1	REFER TO A-101 FOR GENERAL DIMENSIONING & GRID LINE INFORMATION.
2	INTERIOR PARTITIONS ARE DIMENSIONED IN PLAN AS FOLLOWS, U.O.N. FINISH FACE OF WALL TO FINISH FACE.
3	HINGE SIDE OF DOOR OPENINGS SHALL TYPICALLY BE 4\"/>
4	CENTER CLOSET AND MECHANICAL DOORS IN SPACES, U.O.N.
5	WHERE DIMENSIONED OPENING IN METAL STUD WALL OR PARTITIONS TAKEN TO CENTERLINE OF OPENING, U.O.N.
6	WHERE DIMENSIONED OPENINGS IN CMU WALLS ARE DIMENSIONED AS MASONRY OPENINGS (M.O.)
7	FIRESTOP ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILING, AND ROOFS. PROVIDED RATING TO MATCH ASSEMBLY. REFER TO CODE ANALYSIS AND SPECS.
8	CONTRACTOR TO NOTIFY ARCHITECT SHOULD VERIFIED INFORMATION DEVIATE FROM DRAWING INFORMATION.
9	PER SPECIFICATION, PROVIDE CORNER GUARDS AT ALL GYPSUM WALLBOARD CORNERS MOUNTED ABOVE WALL BASE.

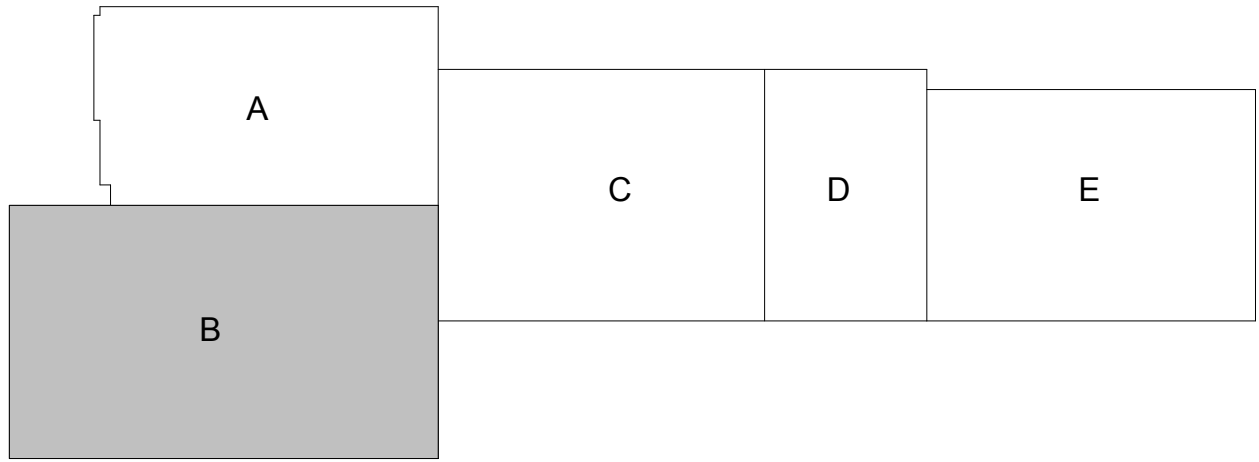
KEY NOTES	
68	LINE OF MEZZANINE ABOVE.
70	KNOX BOX.
71	FIRE ANNUNCIATOR PANEL.
73	TRENCH DRAIN, TYP.
78	ADA MOUNTED DOOR ACTUATOR.
79	ADA MOUNTED DOOR ACTUATOR.
81	RECESSED RADIANT FLOOR MANIFOLD MOUNTING BOX.
82	SURFACE MOUNTED RADIANT FLOOR MANIFOLD MOUNTING BOX.

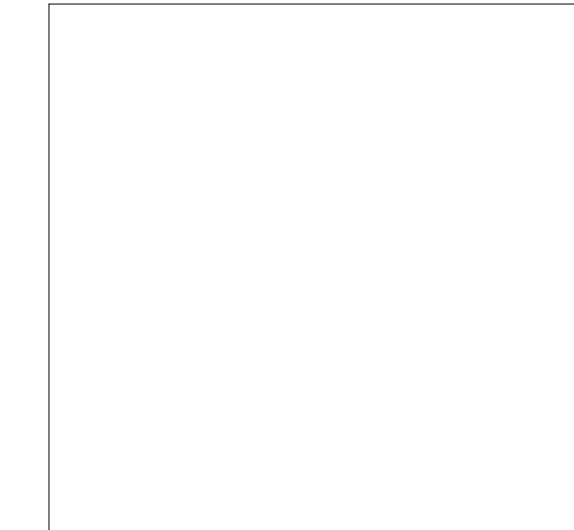


D1 LEVEL 1 PLAN AREA B
1/8" = 1'-0"

ENLARGED PLAN AND ELEVATION NOTES	
1	REFER TO A-101 FOR GENERAL DIMENSIONING & GRID LINE INFORMATION.
2	INTERIOR PARTITIONS ARE DIMENSIONED IN PLAN AS FOLLOWS: U.O.N. FINISH FACE OF WALL TO FINISH FACE.
3	HINGE SIDE OF DOOR OPENINGS SHALL TYPICALLY BE 4" FROM PERPENDICULAR WALL FRAMING, U.O.N.
4	CENTER CLOSET AND MECHANICAL DOORS IN SPACES, U.O.N.
5	WHERE DIMENSIONED OPENING IN METAL STUD WALL OR PARTITIONS TAKEN TO CENTERLINE OF OPENING, U.O.N.
6	WHERE DIMENSIONED OPENINGS IN CMU WALLS ARE DIMENSIONED AS MASONRY OPENINGS (M.O.).
7	FIRESTOP ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILING, AND ROOFS. PROVIDED RATING TO MATCH ASSEMBLY. REFER TO CODE ANALYSIS AND SPECS.
8	CONTRACTOR TO NOTIFY ARCHITECT SHOULD VERIFIED INFORMATION DEVIATE FROM DRAWING INFORMATION.
9	PER SPECIFICATION, PROVIDE CORNER GUARDS AT ALL GYPSUM WALLBOARD CORNERS MOUNTED ABOVE WALL BASE.

KEY NOTES	
56	EV CHARGING STATION, OWNERS TO SELECT THE UNIT.
73	TRENCH DRAIN, TYP.
81	RECESSED RADIANT FLOOR MANIFOLD MOUNTING BOX.
82	SURFACE MOUNTED RADIANT FLOOR MANIFOLD MOUNTING BOX.

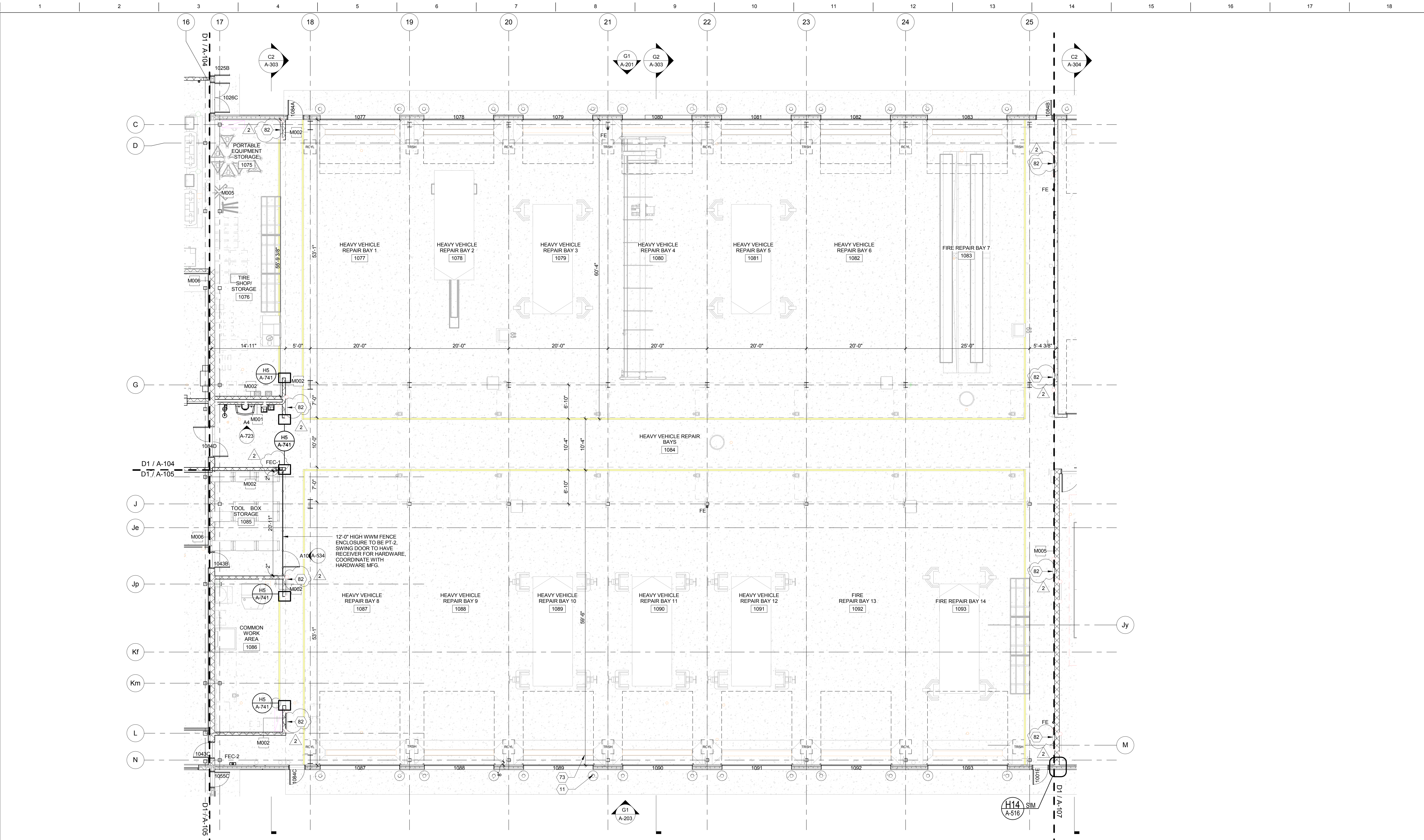




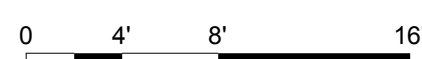
2	ADDENDUM 2	03/05/2019
B	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019
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PROJECT No.	376603	

LEVEL 1 FLOOR PLAN
AREA C

A-106

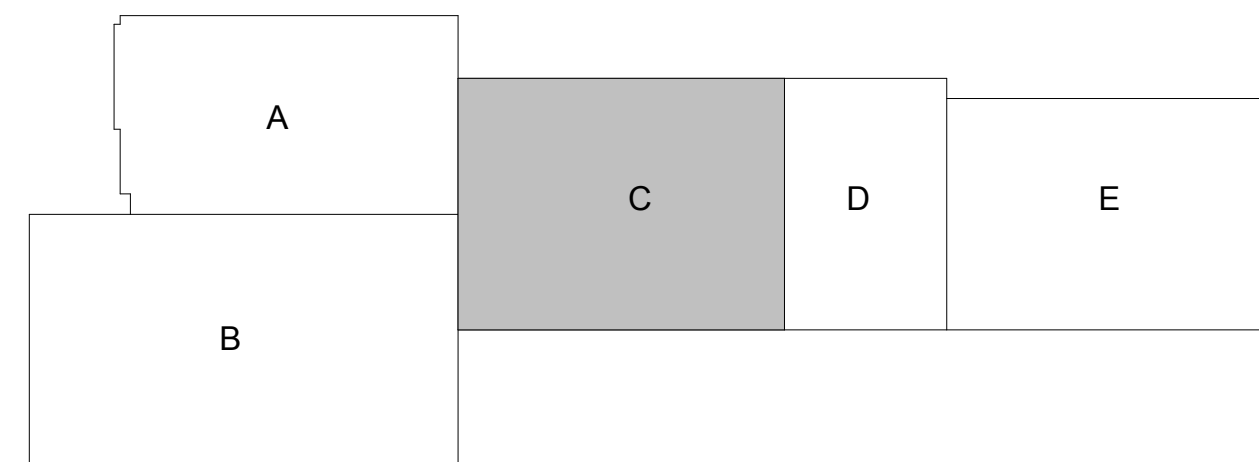


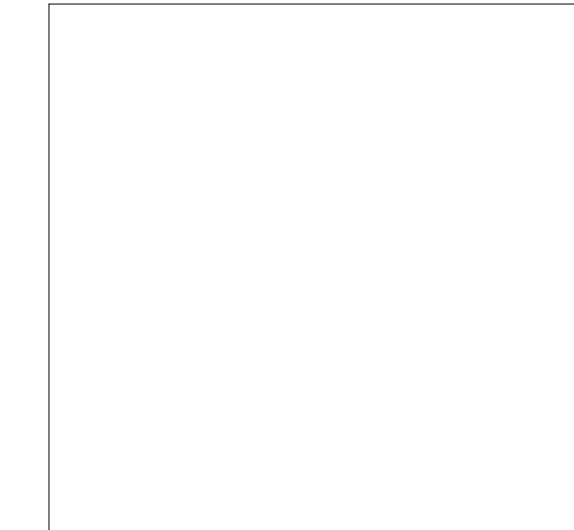
D1 LEVEL 1 PLAN AREA C
1/8" = 1'-0"



ENLARGED PLAN AND ELEVATION NOTES	
1	REFER TO A-101 FOR GENERAL DIMENSIONING & GRID LINE INFORMATION.
2	INTERIOR PARTITIONS ARE DIMENSIONED IN PLAN AS FOLLOWS, U.O.N. FINISH FACE OF WALL TO FINISH FACE.
3	HINGE SIDE OF DOOR OPENINGS SHALL TYPICALLY BE 4" FROM PERPENDICULAR WALL FRAMING, U.O.N.
4	CENTER CLOSET AND MECHANICAL DOORS IN SPACES, U.O.N.
5	WHERE DIMENSIONED OPENING IN METAL STUD WALL OR PARTITIONS TAKEN TO CENTERLINE OF OPENING, U.O.N.
6	WHERE DIMENSIONED OPENINGS IN CMU WALLS ARE DIMENSIONED AS MASONRY OPENINGS (M.O.).
7	FIRESTOP ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILING, AND ROOFS, PROVIDED RATING TO MATCH ASSEMBLY, REFER TO CODE ANALYSIS AND SPECS.
8	CONTRACTOR TO NOTIFY ARCHITECT SHOULD VERIFIED INFORMATION DEViate FROM DRAWING INFORMATION.
9	PER SPECIFICATION, PROVIDE CORNER GUARDS AT ALL GYPSUM WALLBOARD CORNERS MOUNTED ABOVE WALL BASE.

KEY NOTES	
11	8" CONCRETE BOLLARD WITH SAFETY YELLOW BOLLARD SLEEVE, TYP.
73	TRENCH DRAIN, TYP.
82	SURFACE MOUNTED RADIANT FLOOR MANIFOLD MOUNTING BOX.



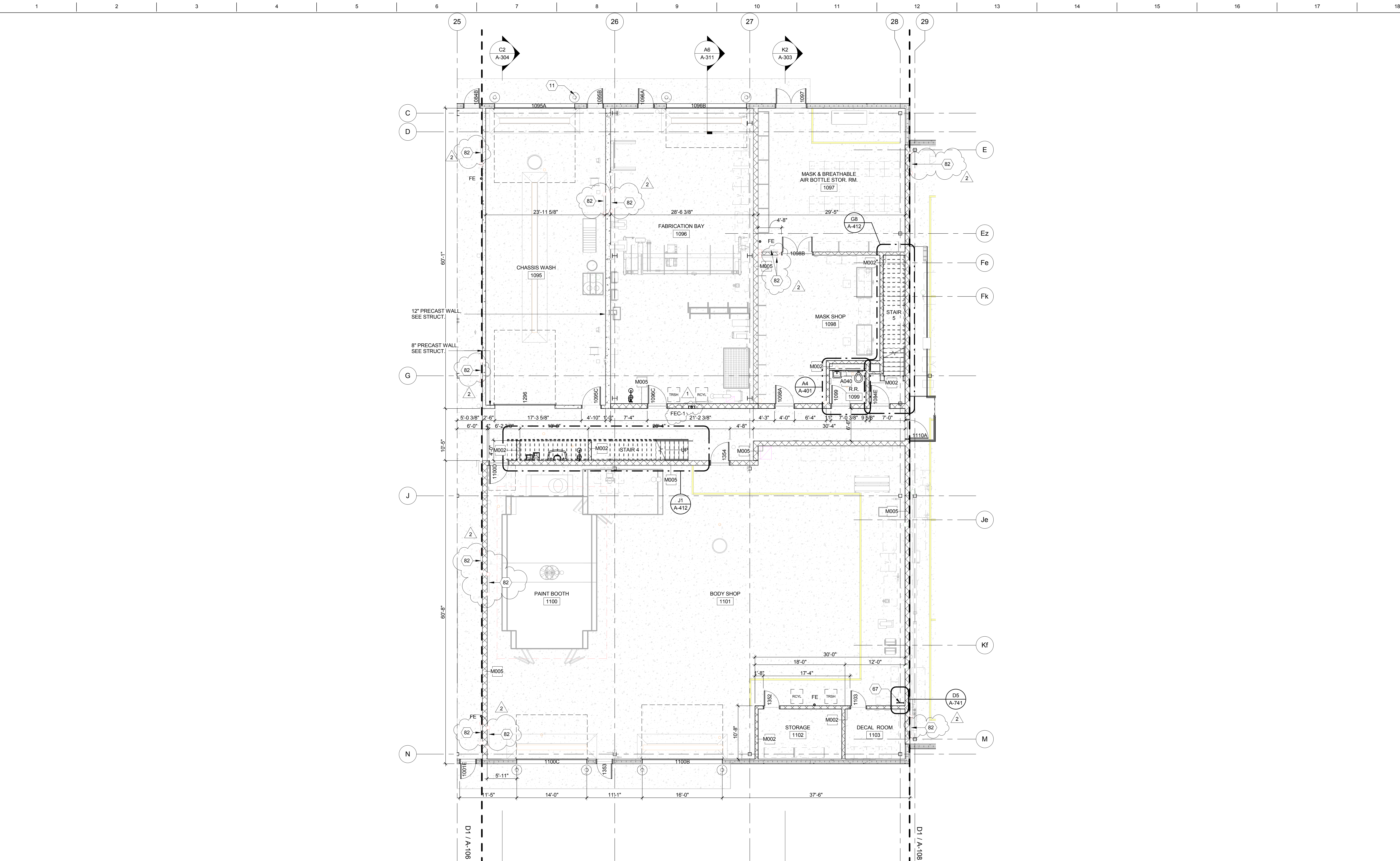


2	ADDENDUM 2	03/05/2019
3	ISSUE FOR BID	02/07/2019
4	DSPS RESPONSE 1	01/28/2019
5	ISSUE FOR PERMIT	01/17/2019

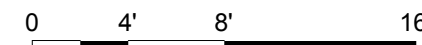
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LEVEL 1 FLOOR PLAN
AREA D

A-107

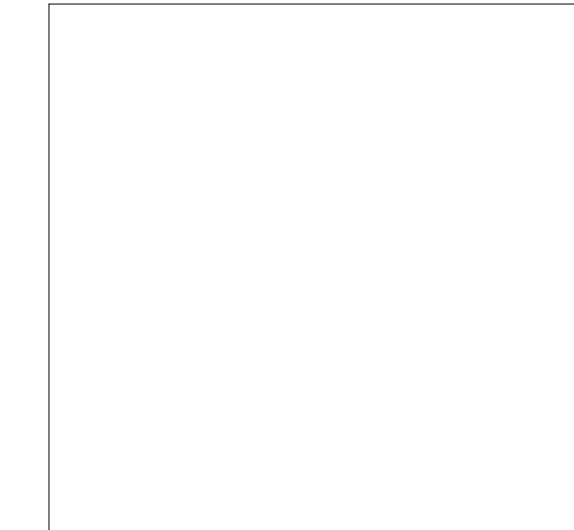


D1 LEVEL 1 PLAN AREA D
1/8" = 1'-0"



ENLARGED PLAN AND ELEVATION NOTES	
1	REFER TO A-101 FOR GENERAL DIMENSIONING & GRID LINE INFORMATION.
2	INTERIOR PARTITIONS ARE DIMENSIONED IN PLAN AS FOLLOWS, U.O.N. FINISH FACE OF WALL TO FINISH FACE.
3	HINGE SIDE OF DOOR OPENINGS SHALL TYPICALLY BE 4" FROM PERPENDICULAR WALL FRAMING, U.O.N.
4	CENTER CLOSET AND MECHANICAL DOORS IN SPACES, U.O.N.
5	WHERE DIMENSIONED OPENING IN METAL STUD WALL OR PARTITIONS TAKEN TO CENTERLINE OF OPENING, U.O.N.
6	WHERE DIMENSIONED OPENINGS IN CMU WALLS ARE DIMENSIONED AS MASONRY OPENINGS (M.O.).
7	FIRESTOP ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILING, AND ROOFS. PROVIDED RATING TO MATCH ASSEMBLY. REFER TO CODE ANALYSIS AND SPECS.
8	CONTRACTOR TO NOTIFY ARCHITECT SHOULD VERIFIED INFORMATION DEVIATE FROM DRAWING INFORMATION.
9	PER SPECIFICATION, PROVIDE CORNER GUARDS AT ALL GYPSUM WALLBOARD CORNERS MOUNTED ABOVE WALL BASE.

KEY NOTES	
11	8" CONCRETE BOLLARD WITH SAFETY YELLOW BOLLARD SLEEVE, TYP.
67	STEEL LADDER TO MEZZANINE
82	SURFACE MOUNTED RADIANT FLOOR MANIFOLD MOUNTING BOX.

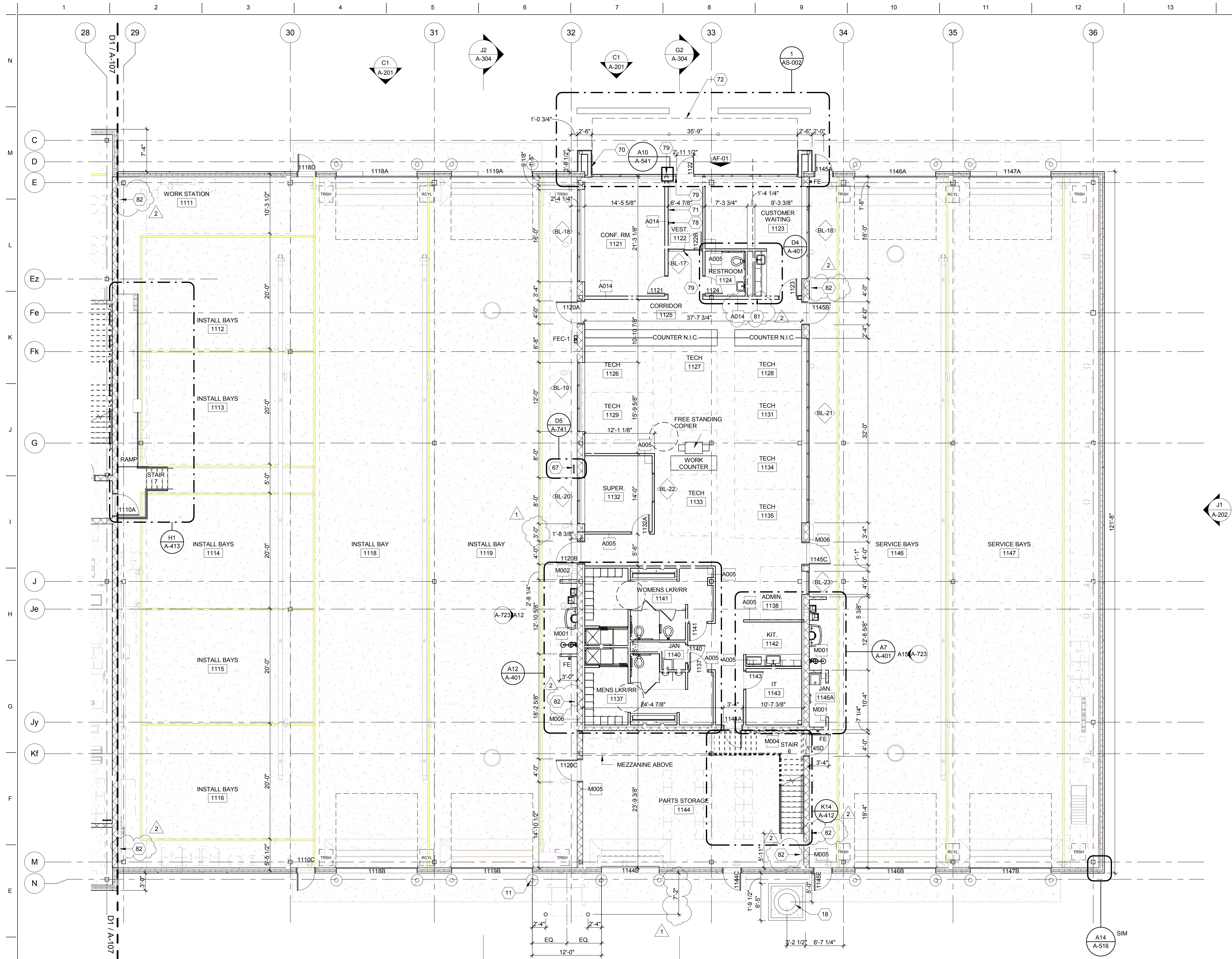


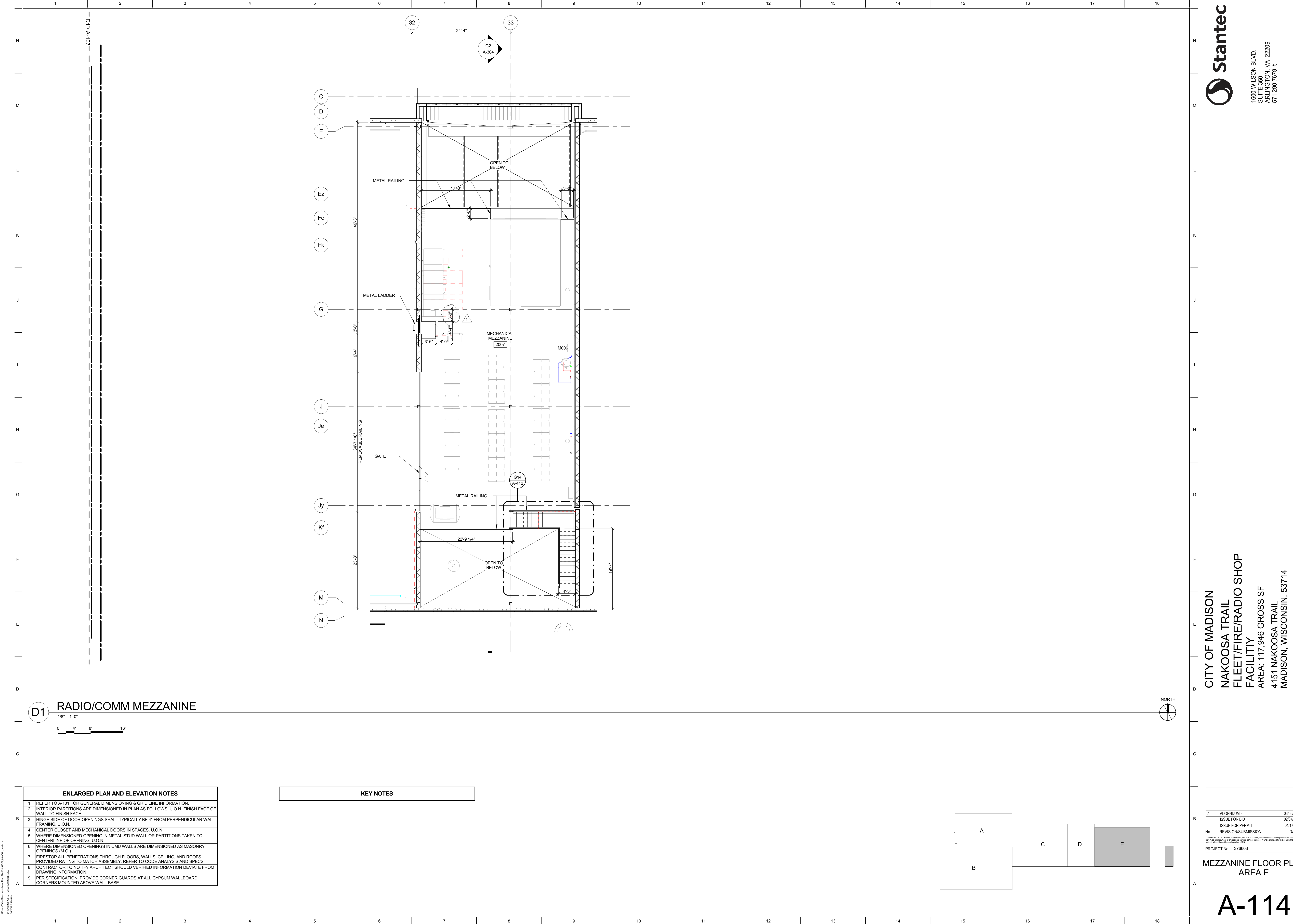
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LEVEL 1 FLOOR PLAN
AREA E

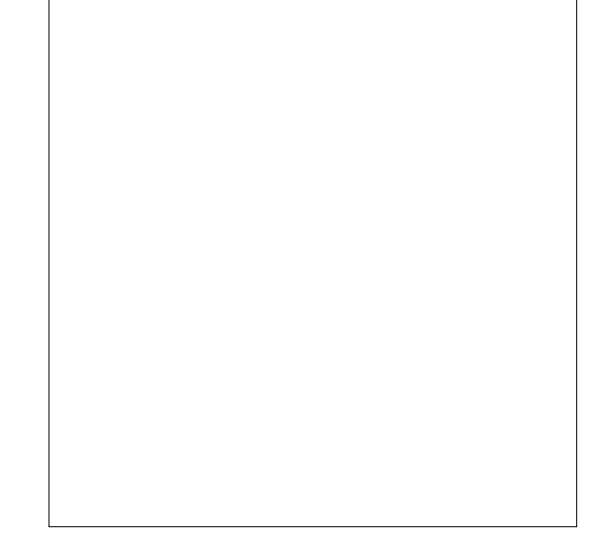
A-108





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SUITE 360
ARLINGTON, VA 22209
571.290.7679

CITY OF MADISON
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA: 117,946 GROSS SF
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
ARCHITECTURE



2	ADDENDUM 2	03/05/2019
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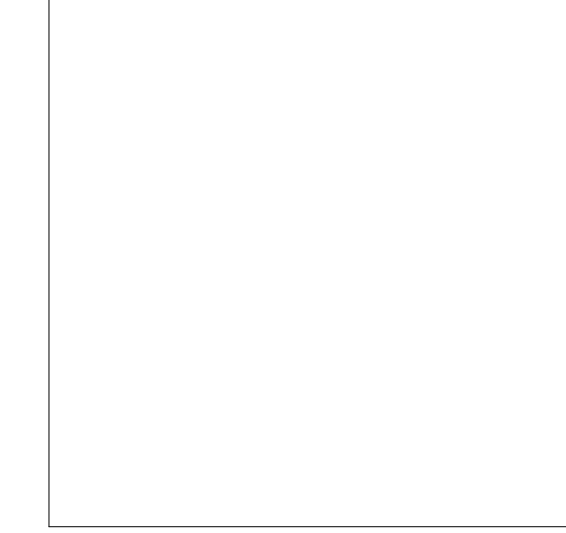
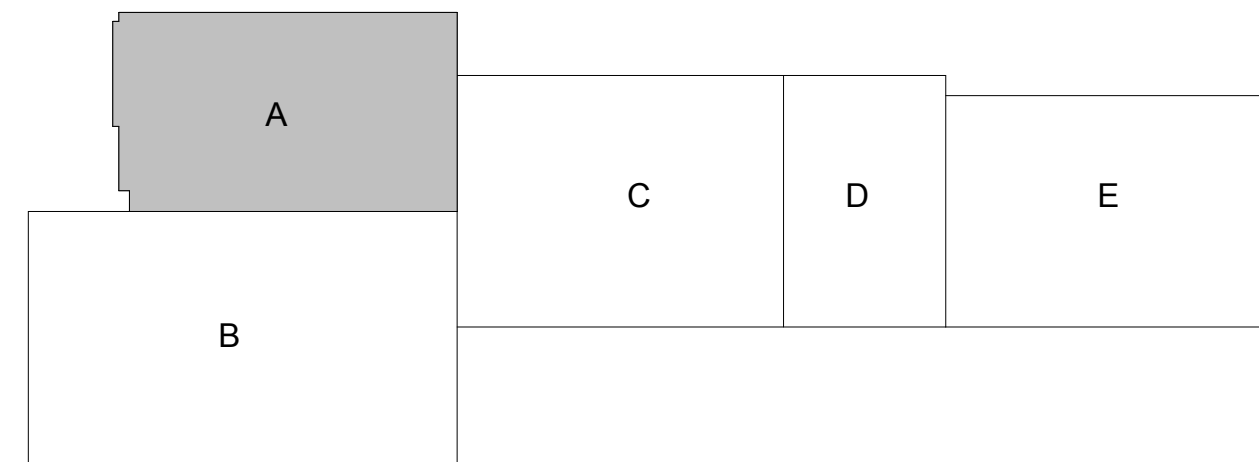
MEZZANINE FLOOR PLAN
AREA E

A-114

D1 LEVEL 1 AREA A REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN NOTES	
1	PRIOR TO STARTING WORK, THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS ON SITE AND NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
2	LIGHTS ARE SHOWN FOR REFERENCE ONLY. RE: ARCHITECTURAL LIGHTING AND ELECTRICAL DRAWINGS FOR SPECIFICATION INFORMATION. NEW LIGHTING LOCATIONS TAKE PRECEDENCE OVER ALL OTHER CEILING AND PLENUM MOUNTED ITEMS. G.C. SHALL COORDINATE ANY DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION.
3	INSTALL SPRINKLER HEADS AND DOWNLIGHTS AT CENTER OF 2X2 PORTION OF ACOUSTICAL CEILING TILE. U.N.O. CONTRACTOR SHALL MARK ALL LIGHT FIXTURE LOCATIONS AND OBTAIN REVIEW FROM ARCHITECT IN THE FIELD PRIOR TO INSTALLATION.
4	PROVIDE CEILING MANUFACTURER'S STANDARD PROFILE WALL MOLDING AT ALL AREAS WHERE ACOUSTICAL CEILING SYSTEMS ABUT PARTITIONS, SOFFITS OR HEADERS.
5	SOUND MASKING SYSTEM TO BE PROVIDED BY OTHERS. GC SHALL COORDINATE INSTALLATION AND INTERFACE WITH VENDOR SUPPLIED COMPONENTS AS REQUIRED.
6	REFER TO ELECTRICAL DRAWINGS FOR LIGHT SWITCH LOCATIONS.
7	CONTRACTOR SHALL MARK ALL ACCESS PANEL LOCATIONS AND OBTAIN REVIEW FROM ARCHITECT AND BUILDING OWNER IN THE FIELD PRIOR TO INSTALLATION. ACCESS PANELS TO MATCH ADJACENT FINISH.
8	ALL GYPSUM BOARD CEILINGS TO BE PAINTED P-1 FLAT SHEEN, U.N.O.
9	ALL ACOUSTICAL CEILING GRIDS TO BE CENTERED IN THE ROOM, U.N.O.
10	ALL REGISTERS, DIFFUSERS, EXIT LIGHTS, AND SMOKE DETECTORS TO BE CENTERED IN PANEL, U.N.O.
11	PROVIDE EQUAL DISTANCE BETWEEN LIGHTINGS U.N.O. GC TO NOTIFY ARCHITECTS WITH ANY DISCREPANCY.
12	LOCATE A GROUP OF LIGHTINGS IN THE MIDDLE OF ASSOCIATED SPACE OR CEILING MATERIAL.

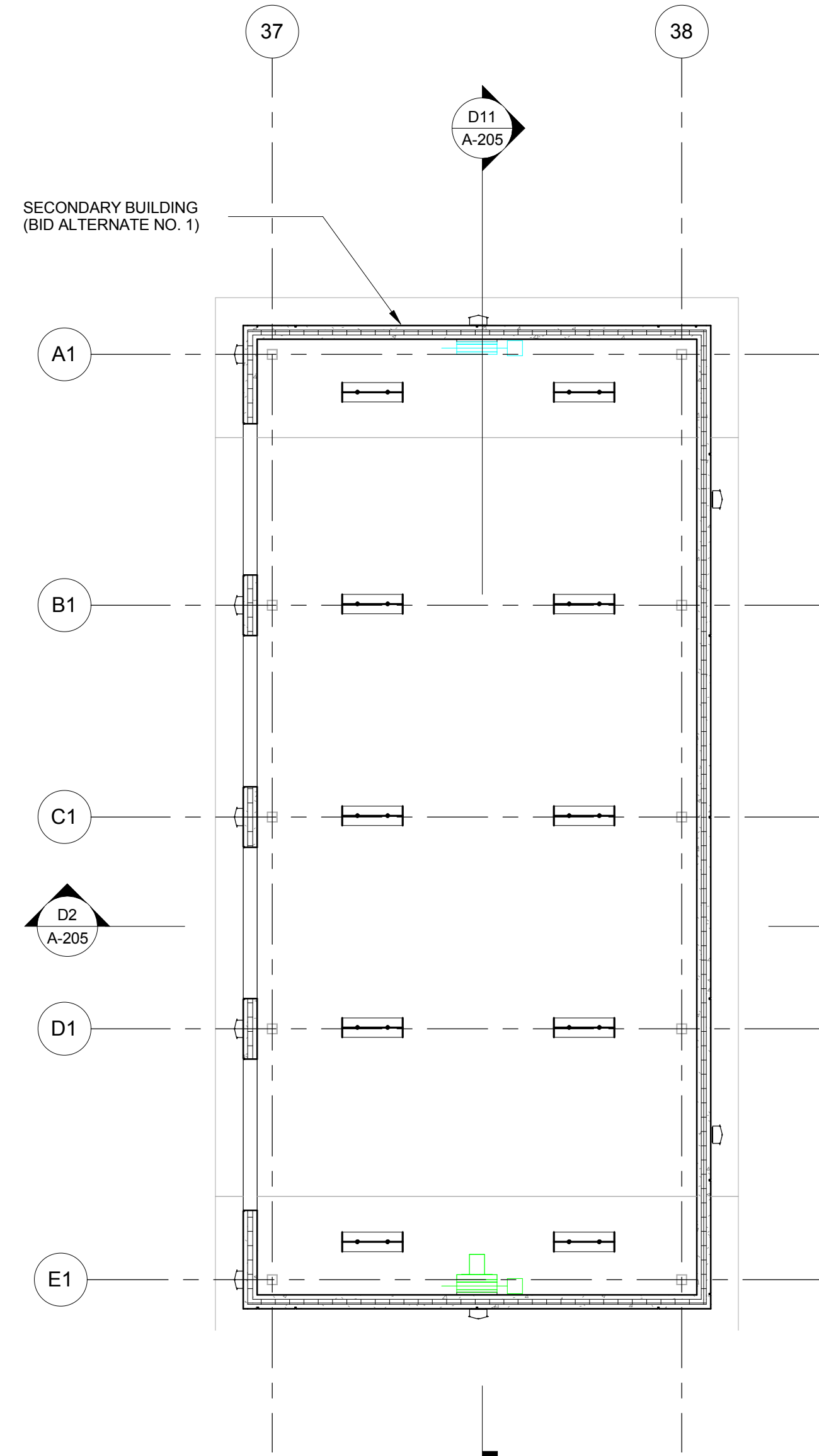
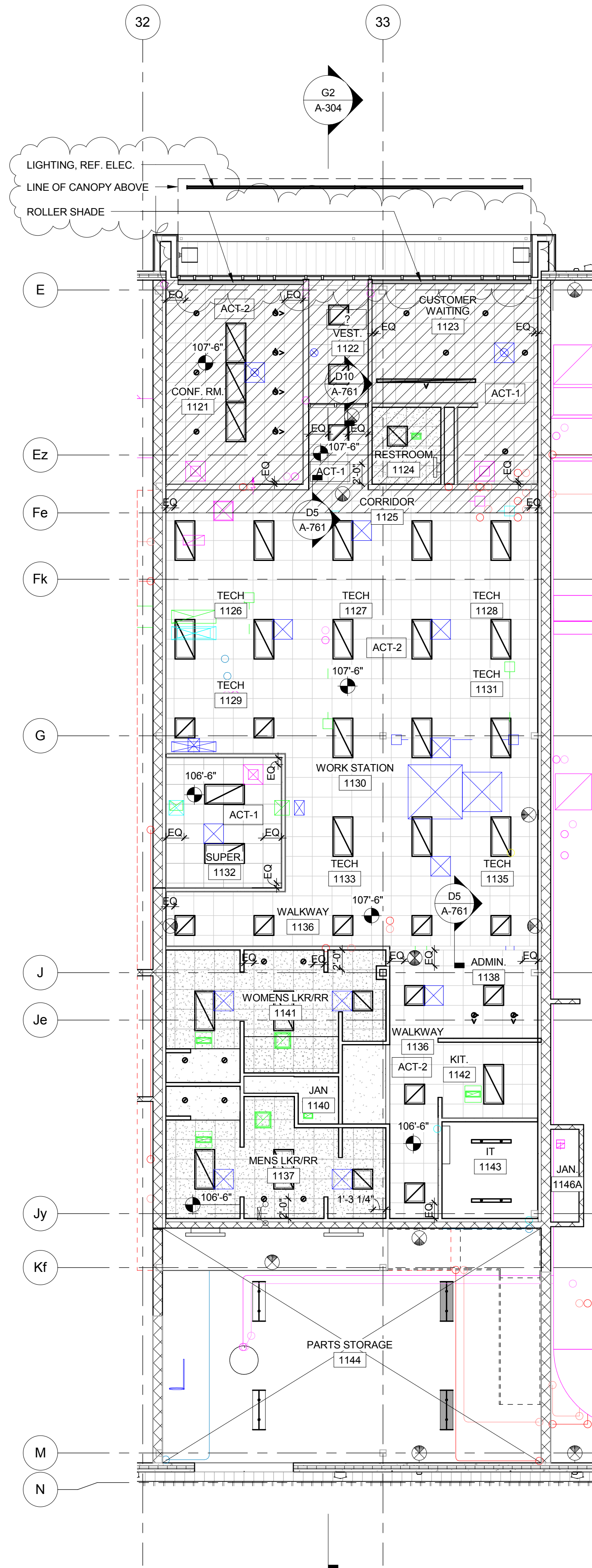
CEILING MATERIAL LEGEND			
	ACT-1		OPEN TO STRUCTURE ABOVE
	ACT-2		SPRAY FOAM INSULATION TO UNDERSIDE OF MTL DECK
	ACT-3		
	GB-1		GB-2



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LEVEL 1 AREA A
REFLECTED CEILING
PLAN

A-132

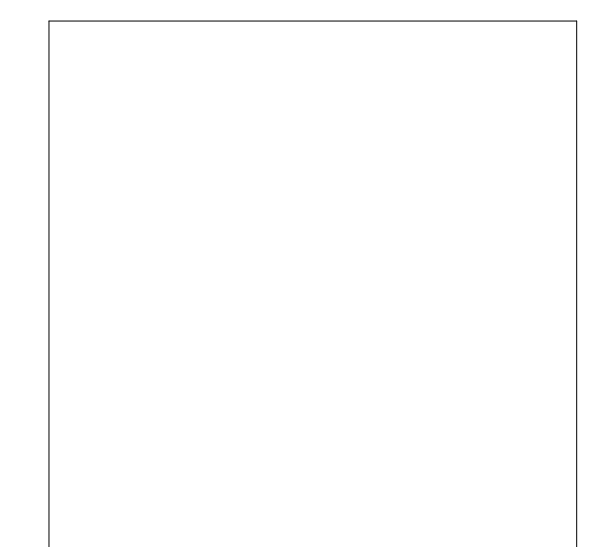


D1 LEVEL 1 AREA E REFLECTED CEILING PLAN

1/8" = 1'-0"

0 4' 8' 16'

CITY OF MADISON
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA: 117,946 GROSS SF
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
ARCHITECTURE



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PROJECT No.	376603	

LEVEL 1 AREA E
REFLECTED CEILING
PLAN

A-136

PAINTS AND COATINGS

CONC-1	PRECAST CONCRETE PANEL MFG.: SPANCRETEE COLOR: NATURAL CONCRETE COLOR FINISH: - DESCRIPTION: BOARD FORM CONCRETE TEXTURE
CONC-2	PRECAST INSULATED CONCRETE PANEL MFG: DUNN EDWARDS COLOR: DE8229 CALICO ROCK FINISH: PAINTED DESCRIPTION: SMOOTH TEXTURE FINISH AND 3/4" DEEP x 1/2" WIDE REVEALS ON EXTERIOR FACE.
CONC-3	CAST-IN-PLACE CONCRETE MFG: COLOR: NATURAL CONCRETE COLOR FINISH: SAND DESCRIPTION:
MP-1	RAINSCREEN METAL WALL PANEL MFG: CENTRIA STYLE: IW-10A 22 GUAGE OPTIMAL ALUMINUM COLOR: DURANAR XL COATINGS, COPPER CANYON, #3ZMN86977 FINISH: SMOOTH (NON-EMBOSSED) DESCRIPTION: 12" PANEL WIDTH TYPICAL
MP-2	RAINSCREEN METAL WALL PANEL MFG: CENTRIA STYLE: IW-10A 22 GUAGE OPTIMAL ALUMINUM COLOR: DURANAR COATINGS, DILL WEED, #5MG86755 FINISH: SMOOTH (NON-EMBOSSED) DESCRIPTION: 12" PANEL WIDTH TYPICAL
MP-3	RAINSCREEN METAL WALL PANEL MFG: CENTRIA STYLE: IW-10A 22 GUAGE OPTIMAL ALUMINUM COLOR: DURANAR COATINGS, URBAN MIST GREEN, #5MG86920 FINISH: SMOOTH (NON-EMBOSSED) DESCRIPTION: 12" PANEL WIDTH TYPICAL
MP-4	RAINSCREEN METAL WALL PANEL MFG: CENTRIA STYLE: IW-10A 22 GUAGE OPTIMAL ALUMINUM COLOR: VALSPAR PRISMATIC, SLATE GREY, #181 FINISH: SMOOTH (NON-EMBOSSED) DESCRIPTION: 12" PANEL WIDTH TYPICAL
MP-5	TRANSPiRED SOLAR COLLECTOR MFG: SOLAR WALL COLOR: CHARCOAL SW56072 DESCRIPTION: SOLAR ABSORPTIVITY 0.71
MR-1	MEMBRANE ROOFING MFG: FIRESTONE STYLE: COLOR: WHITE FINISH: DESCRIPTION: EPDM
MS-1	PERFORATED METAL SCREEN MFG: PARASOLEIL STYLE: LEMON DROP FINISH: UMBRIA DESCRIPTION: 1/8" THICK PANEL, 2'-6" WIDTH x 10'-0" LENGTH, 50% OPENNESS
MS-2	PERFORATED METAL SCREEN MFG: PARASOLEIL STYLE: LEMON DROP FINISH: UMBRIA DESCRIPTION: 1/8" THICK PANEL, 2'-6" WIDTH x 4'-0" LENGTH, 10% OPENNESS
MS-3	PERFORATED METAL SCREEN MFG: PARASOLEIL STYLE: LEMON DROP FINISH: UMBRIA DESCRIPTION: 1/4" THICK PANEL, 4'-0" WIDTH x 8'-0" LENGTH, 16% OPENNESS
MS-4	PERFORATED METAL SCREEN MFG: PARASOLEIL STYLE: LEMON DROP FINISH: UMBRIA DESCRIPTION: 1/8" THICK PANEL, SEE DRAWINGS FOR SIZE, 16% OPENNESS
SS-1	STANDING SEAM METAL ROOF MFG: BERRIDGE STYLE: FINISH AND COLOR: TO MATCH TRANSPiRED METAL WALL DESCRIPTION:
SS-2	STANDING SEAM METAL ROOF MFG: BERRIDGE STYLE: - FINISH: KYNAR FINISH, ACRYLIC-COATED GLAVALUME DESCRIPTION:
WWM-1	WELDED WIRE MESH, 2" x 2" COLOR: GALVANIZED DESCRIPTION: NON-CLIMBABLE
WWM-2	WELDED WIRE MESH, 4" x 4" COLOR: GALVANIZED FINISH: GALVANIZED DESCRIPTION: NON-CLIMBABLE

PT-1 HIGH PERFORMANCE FIELD PAINT
CONDITION: EXTERIOR (HM FRAMES, METAL PANELS, AS NOTED
(INUL PCC, TYP.)
MFG: DUNN EDWARDS
COLOR: DET611 IRON C

PT-2 HIGH PERFORMANCE FIELD PAINT
CONDITION: EXTERIOR (SMOOTH TEXTURED INSUL PCC, TYP.)
MFG: DUNN EDWARDS
COLOR: DE6229 - CALLCO ROCK

PT-3 HIGH PERFORMANCE FIELD PAINT
CONDITION: EXTERIOR (STEEL PLATES, TYP.)
MFG: SHERWIN WILLIAMS
COLOR: COPPER POT SW7709

PT-4 HIGH PERFORMANCE FIELD PAINT
CONDITION: EXTERIOR (BOLLARDS, TYP.)
MFG -
COLOR: HEX COLOR CODE #FF6700

PT-5 MANUFACTURED PREFINISH PAINT
CONDITION: EXTERIOR (ALUMINUM FRAMES, TYP.)
MFG: KAWNEER
COLOR: NO. 18 CHAMPAGNE

PT-6 MANUFACTURED APPLIED PAINT
CONDITION: EXTERIOR (OVERHEAD SECTIONAL DOOR, TYP.)
MFG: OVERHEAD DOOR CO.
COLOR: GRAY

CITY OF MADISON
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FLEET/FIRE/RADIO SHOP
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ARCHITECTURE

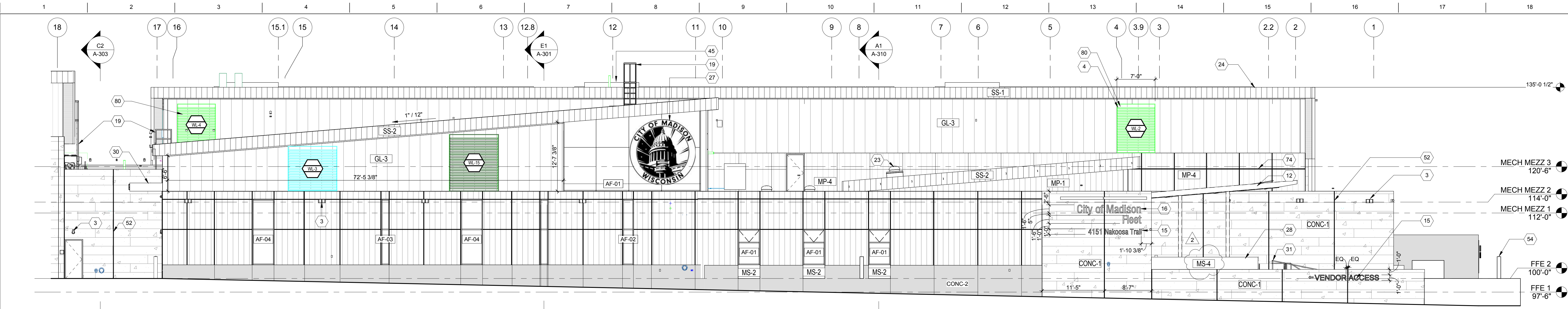
2	ADDENDUM 2	03/05/2019
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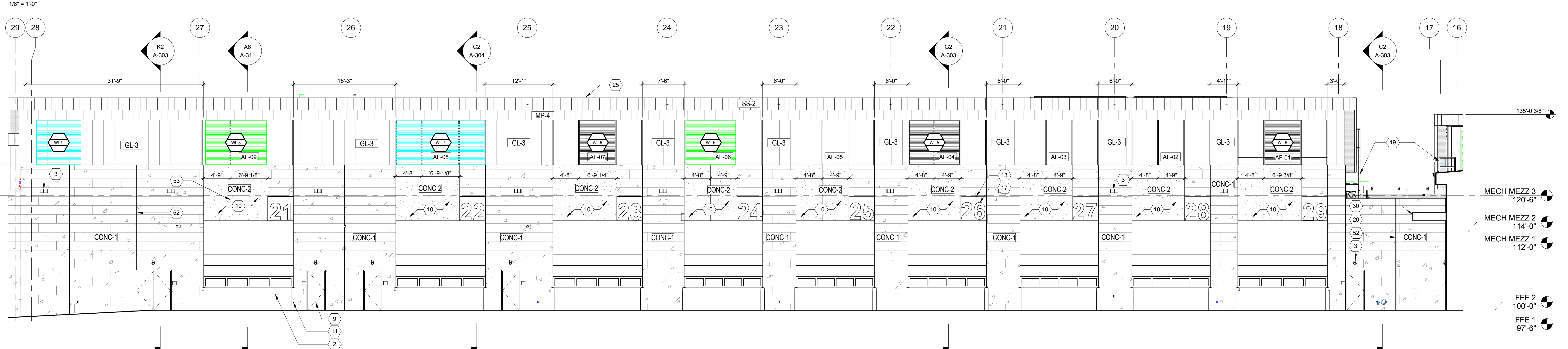
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EXTERIOR FINISH SCHEDULE

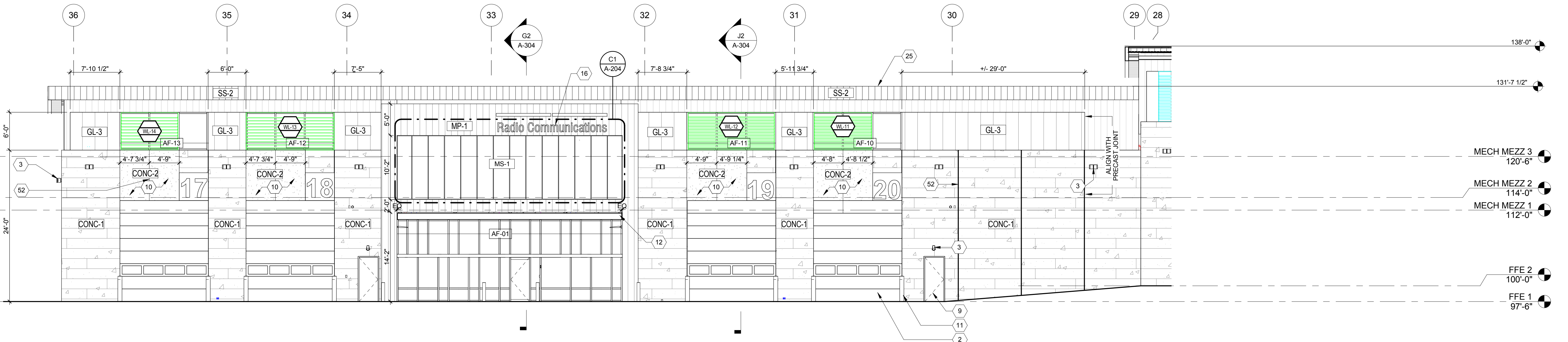
A-200



K1 NORTH ELEVATION AB



G1 NORTH ELEVATION CD



C1 NORTH ELEVATION E

ENLARGED ELEVATION NOTES	
1	REFER TO G-001 FOR PROJECT GENERAL NOTES, REFERENCE AND MATERIAL SYMBOLS, AND ABBREVIATIONS USED ON THIS DRAWING.
2	REFER TO THE ARCHITECTURAL GENERAL NOTES ON SHEET G-002 FOR ADDITIONAL NOTES WHICH MAY BE APPLICABLE TO THE WORK SHOWN ON THIS SHEET.
3	REFER TO AND COORDINATE WITH CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4	REFER TO SITE SCHEDULE, ARCHITECTURAL GENERAL NOTES FOR SITE SIGNAGE AND SITE SIGNAGE LOCATION ON SHEET AS-005.
5	SEE SHEET A-200 FOR ADDITIONAL EXTERIOR FINISH INFORMATION AND SCHEDULE.
6	FOR ALUMINUM FRAMED (AF) WINDOW AND GLAZING TYPES, REFER TO SHEETS A-503 AND A-504.

KEY NOTES	
2	INSULATED STEEL SECTIONAL OVERHEAD DOOR WITH VISION AND PLASTIC GLAZING PANELS, TYP.
3	LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS.
4	MECHANICAL LOUVER, TYP. REFER TO MECHANICAL DRAWINGS.
9	(PT-1) HOLLOW METAL DOOR AND FRAME, TYP.
10	(PT-2) PAINTED INSULATED PRECAST WALL PANELS WITH SMOOTH TEXTURE, SEE EXTERIOR FINISH SCHEDULE ON A-200.
11	8" CONCRETE BOLLARD WITH SAFETY YELLOW BOLLARD SLEEVE, TYP.
12	(PT-1) PAINTED STEEL STRUCTURE CANOPY.
13	(PT-3) PAINTED STEEL PLATE WITH APPLIED STEEL LETTERING, TYP.
15	MATTE ALUMINUM LETTERS 1'-0" HEIGHT, TYP.
16	MATTE ALUMINUM LETTERS 1'-6" HEIGHT, TYP.
17	MATTE ALUMINUM LETTERS 3'-0" HEIGHT, TYP.
19	ROOF LADDER WITH METAL CAGE, TYP.
23	SOLATUBE, TYP.
24	(SS-1) STANDING SEAM METAL ROOF, SEE EXTERIOR FINISH SCHEDULE ON A-200.
25	(SS-2) STANDING SEAM METAL ROOF, SEE EXTERIOR FINISH SCHEDULE ON A-200.
27	VINYL APPLIED GRAPHIC.
28	PERFORATED METAL SCREEN WITH PAINTED SUBSTRUCTURE TO MATCH MS-1.
30	METAL PANEL CANOPY WITH MEMBRANE ROOFING.

KEY NOTES CONT.	
31	PREFINISHED METAL PIPE HANDRAIL/GUARDRAIL, TYP.
45	SOLAR PANEL, TYP. SEE ELECTRICAL (ALTERNATE BID NUMBER 2).
52	3/4" INSULATED PRECAST PANEL JOINT, TYP.
53	1/2" INSULATED PRECAST PANEL REVEAL, TYP.
54	BIKE RACK ON PAVED SURFACE, SEE AS-002.
74	1/2" REVEAL IN METAL PANEL, TYP.
80	PROVIDE BIRD-SCREEN ON EXTERIOR SIDE OF LOUVER.

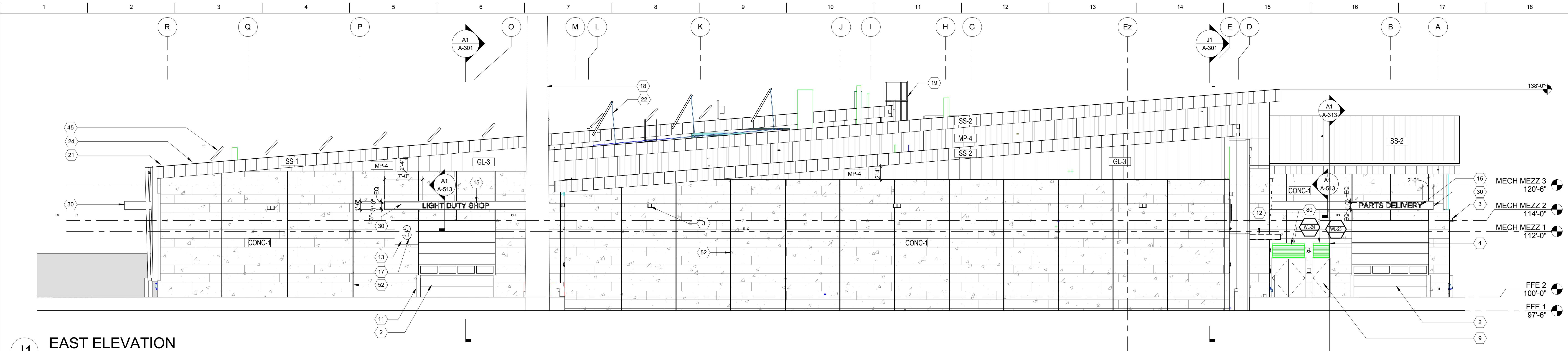
MATERIAL GRAPHIC LEGEND	
	LOUVER TYPE, SEE SHEET A-602
	(AF) ALUMINUM FRAME, SEE SHEET A-503 - A-504
	EXTERIOR FINISH, SEE SHEET A-200
	PAINTS AND COATINGS, SEE SHEET A-200
	BORROWED LITE TYPE, SEE SHEET A503 - A-504
	KEYNOTE

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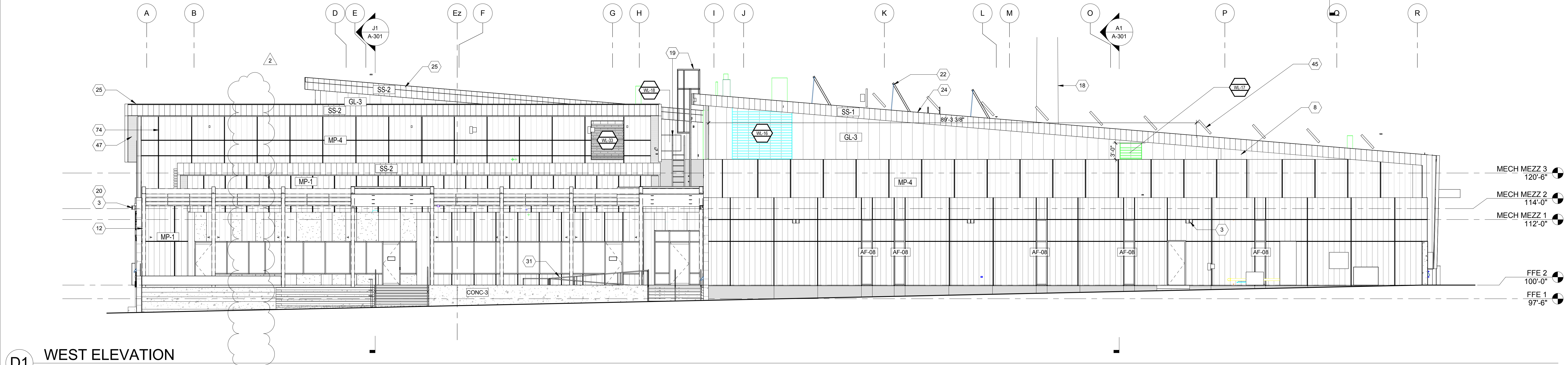
REVISIONS	
NO.	REVISION
2	ADDENDUM 2
1	ISSUE FOR BID
0	ISSUE FOR PERMIT

PROJECT No: 376603

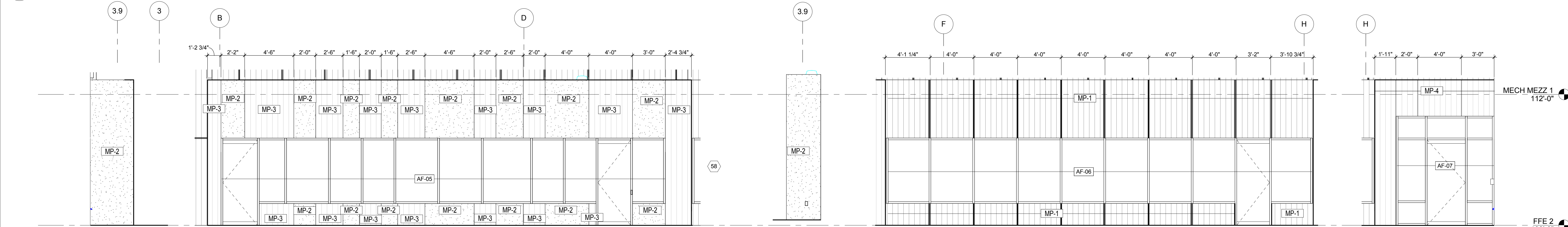
BUILDING ELEVATIONS



J1 EAST ELEVATION
1/8" = 1'-0"



D1 WEST ELEVATION
1/8" = 1'-0"



C1 NRTH ENTRY ELEV
1/4" = 1'-0"

C3 ENLARGED WEST ELEVATION AT ENTRY
1/4" = 1'-0"

C9 STH ENTRY ELEV
1/4" = 1'-0"

C11 ENLARGED WEST ELEVATION AT ENTRY1
1/4" = 1'-0"

C16 ENLARGD WST ELEV ENTRY 2
1/4" = 1'-0"

ENLARGED ELEVATION NOTES	
1	REFER TO G-001 FOR PROJECT GENERAL NOTES, REFERENCE AND MATERIAL SYMBOLS, AND ABBREVIATIONS USED ON THIS DRAWING.
2	REFER TO THE ARCHITECTURAL GENERAL NOTES ON SHEET G-002 FOR ADDITIONAL NOTES WHICH MAY BE APPLICABLE TO THE WORK SHOWN ON THIS SHEET.
3	REFER TO AND COORDINATE WITH CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
4	REFER TO SITE SCHEDULE, ARCHITECTURAL GENERAL NOTES FOR SITE SIGNAGE AND SITE SIGNAGE LOCATION ON SHEET AS-005.
5	SEE SHEET A-200 FOR ADDITIONAL EXTERIOR FINISH INFORMATION AND SCHEDULE.
6	FOR ALUMINUM FRAMED (AF) WINDOW AND GLAZING TYPES, REFER TO SHEETS A-503 AND A-504.

KEY NOTES	
2	INSULATED STEEL SECTIONAL OVERHEAD DOOR WITH VISION AND PLASTIC GLAZING PANELS, TYP.
3	LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS.
4	MECHANICAL LOUVER, TYP. REFER TO MECHANICAL DRAWINGS.
8	(MP-4) METAL WALL PANEL, SEE EXTERIOR FINISH SCHEDULE ON A-200.
9	(PT-1) HOLLOW METAL DOOR AND FRAME, TYP.
11	8" CONCRETE BOLLARD WITH SAFETY YELLOW BOLLARD SLEEVE, TYP.
12	(PT-1) PAINTED STEEL STRUCTURE CANOPY.
13	(PT-3) PAINTED STEEL PLATE WITH APPLIED STEEL LETTERING, TYP.
15	MATTE ALUMINUM LETTERS 1'-0" HEIGHT, TYP.
17	MATTE ALUMINUM LETTERS 3'-0" HEIGHT, TYP.
18	RADIO COMMUNICATION TOWER BY OTHER.
19	ROOF LADDER WITH METAL CAGE, TYP.
21	SNOWGUARD, TYP.
22	SOLAR HOT WATER PANEL SYSTEM, REFER TO MECHANICAL DRAWINGS.
24	(SS-1) STANDING SEAM METAL ROOF, SEE EXTERIOR FINISH SCHEDULE ON A-200.
25	(SS-2) STANDING SEAM METAL ROOF, SEE EXTERIOR FINISH SCHEDULE ON A-200.
30	METAL PANEL CANOPY WITH MEMBRANE ROOFING.
31	PREFINISHED METAL PIPE HANDRAIL/GUARDRAIL, TYP.
45	SOLAR PANEL, TYP. SEE ELECTRICAL (ALTERNATE BID NUMBER 2).

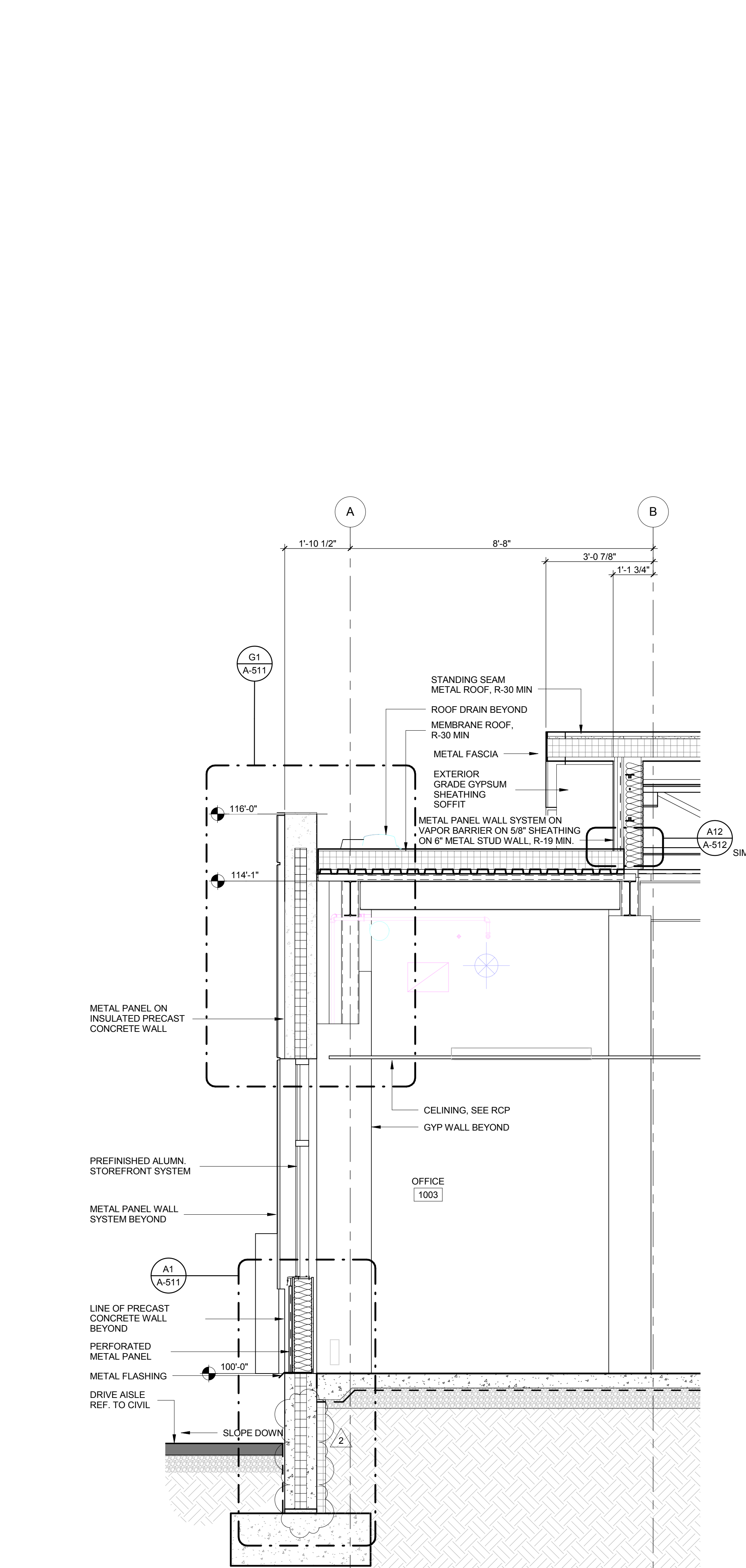
KEY NOTES CONT.	
47	PERFORATED METAL SOFFIT TO MATCH S-2, SEE EXTERIOR FINISH SCHEDULE ON A-200.
52	3/4" INSULATED PRECAST PANEL JOINT, TYP.
74	1/2" REVEAL IN METAL PANEL, TYP.
80	PROVIDE BIRD-SCREEN ON EXTERIOR SIDE OF LOUVER.

MATERIAL GRAPHIC LEGEND	
	LOUVER TYPE, SEE SHEET A-602
	(AF) ALUMINUM FRAME, SEE SHEET A-503 - A-504
	EXTERIOR FINISH, SEE SHEET A-200
	PAINTS AND COATINGS, SEE SHEET A-200
	BORROWED LITE TYPE, SEE SHEET A503 - A-504
	KEYNOTE

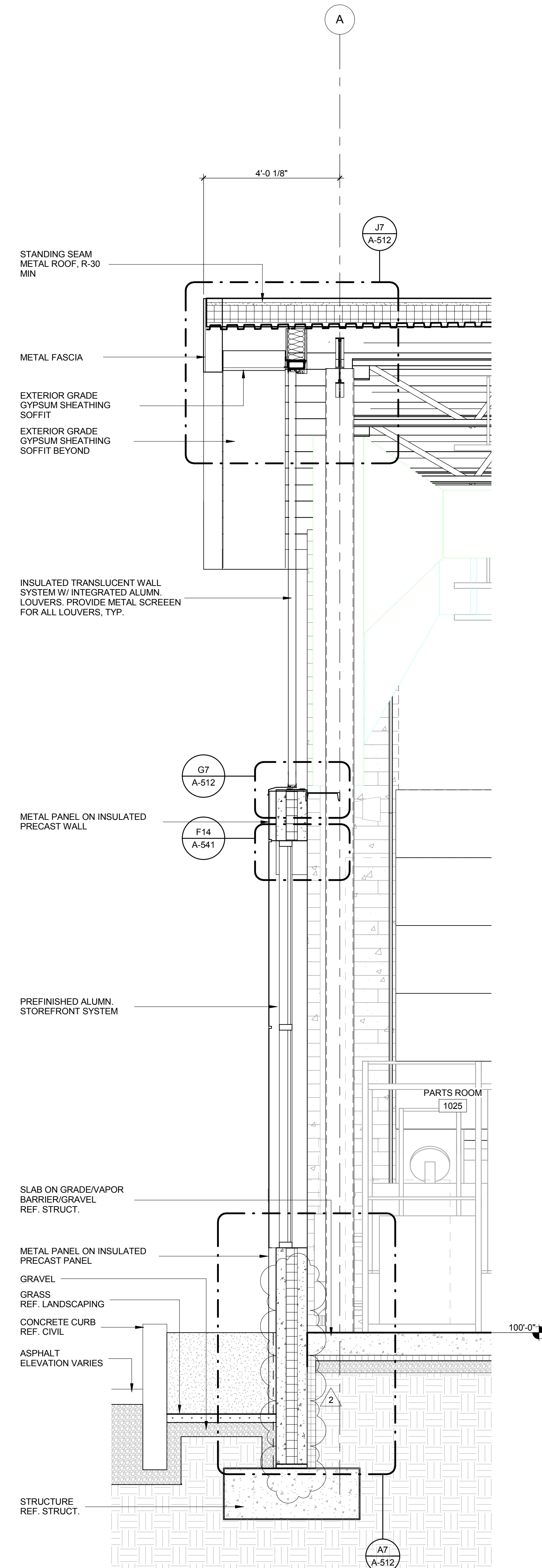
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2	ADDENDUM 2	03/05/2019
3	ISSUE FOR BID	02/07/2019
4	ISSUE FOR PERMIT	01/17/2019
5	REVISION/SUBMISSION	DATE
6	PROJECT No:	376603

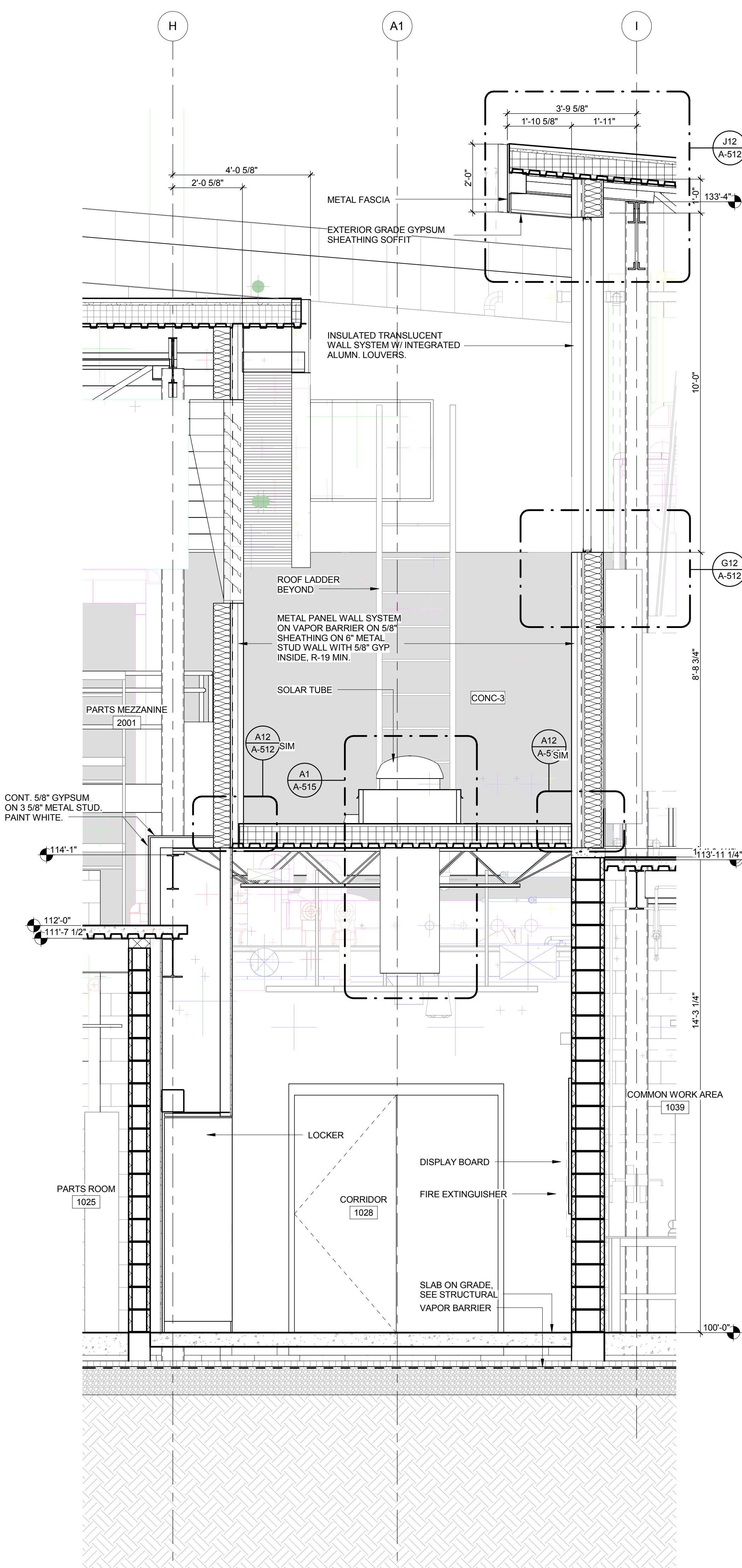
BUILDING ELEVATIONS



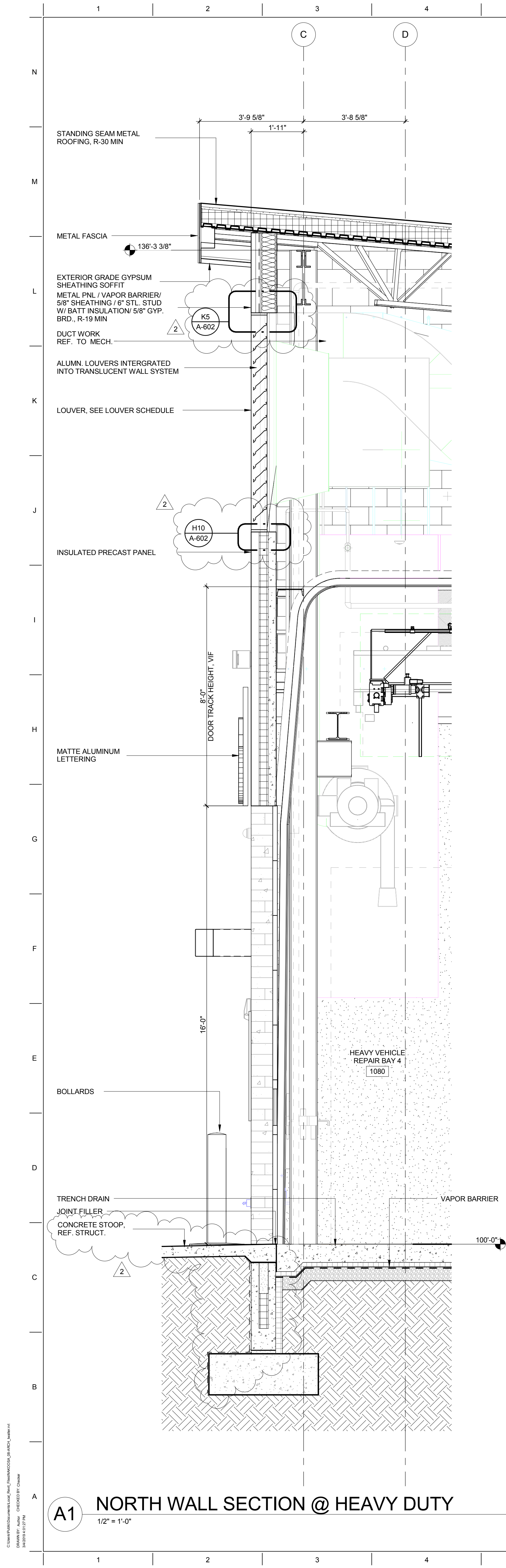
A1 SECTION @ OFFICE WINDOW
1/2" = 1'-0"



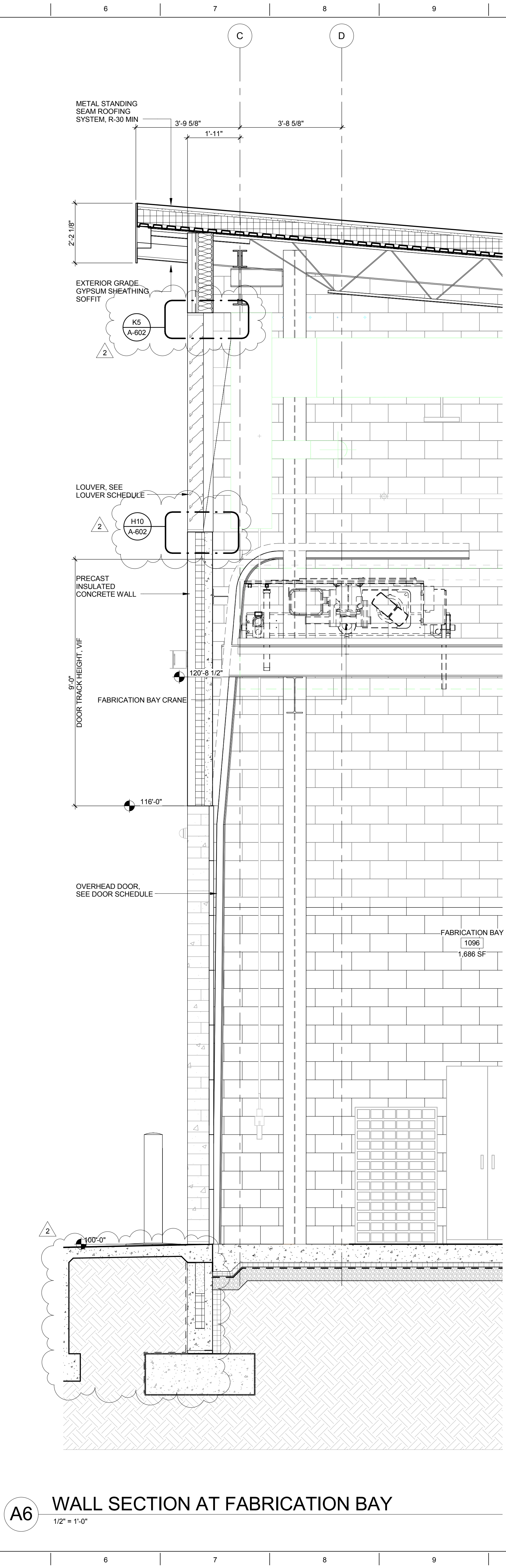
A7 NORTH WALL SECTION @ PARTS ROOM
1/2" = 1'-0"



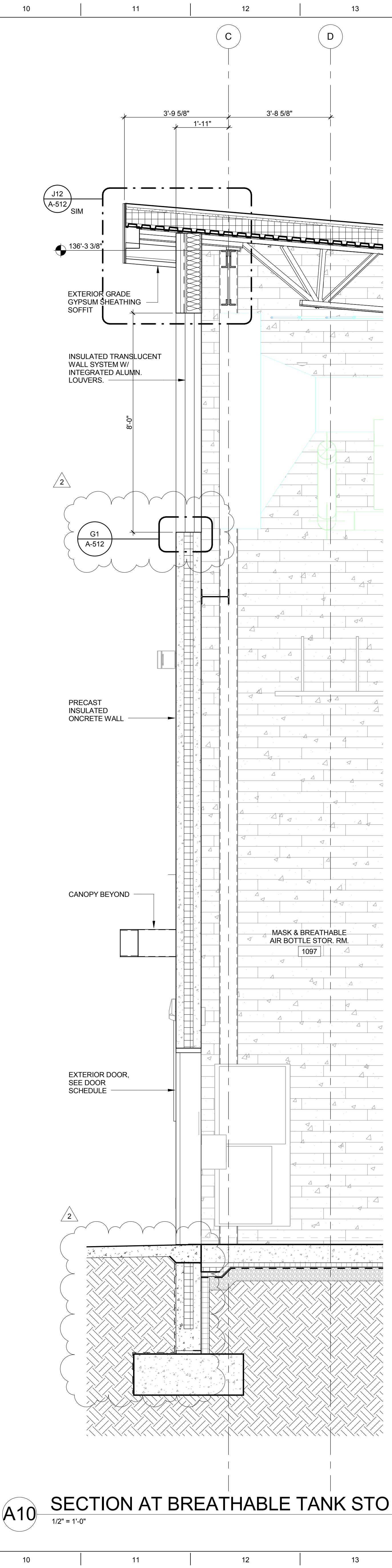
A12 NORTH WALL SECTION @ LIGHT MAINTENANCE
1/2" = 1'-0"



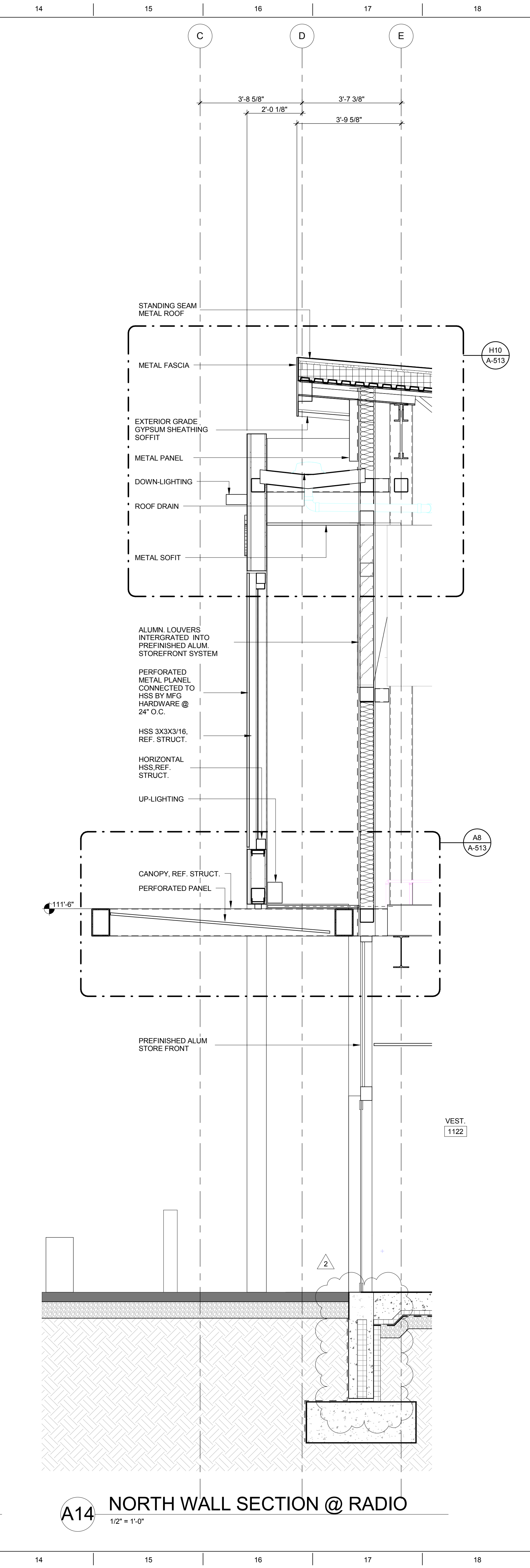
A1 NORTH WALL SECTION @ HEAVY DUTY
1/2" = 1'-0"



A6 WALL SECTION AT FABRICATION BAY
1/2" = 1'-0"



A10 SECTION AT BREATHABLE TANK STO
1/2" = 1'-0"



A14 NORTH WALL SECTION @ RADIO
1/2" = 1'-0"



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	DSPS RESPONSE 1	01/28/2019
	ISSUE FOR PERMIT	01/17/2019

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N/S WALL SECTIONS

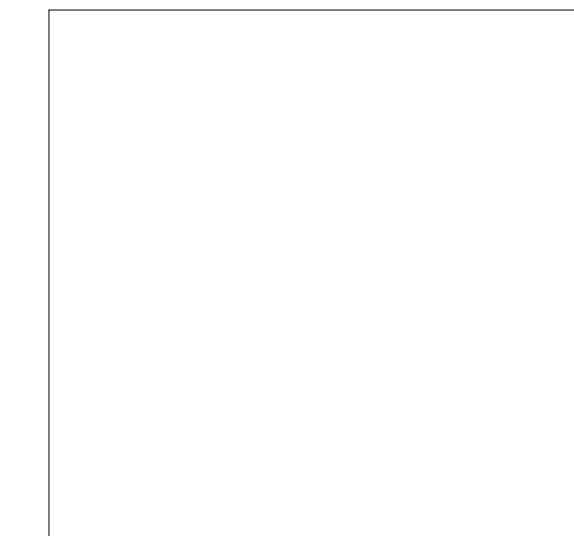
A-311

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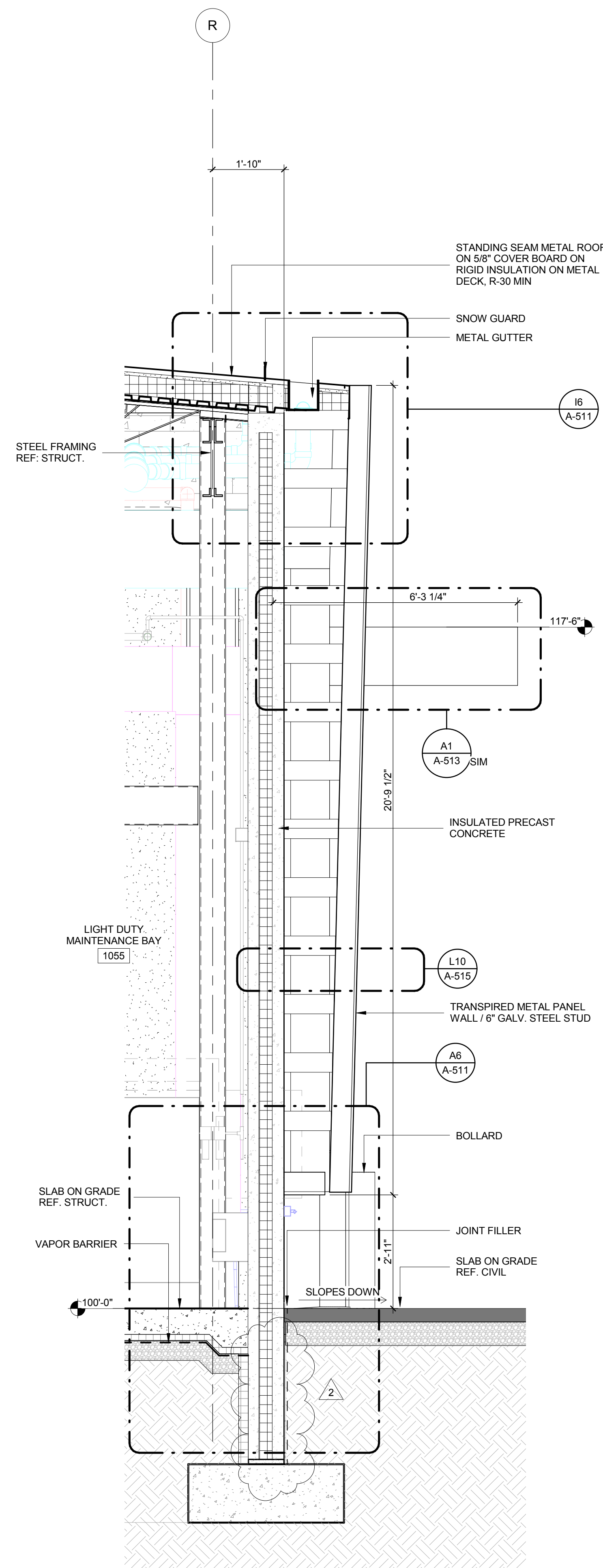
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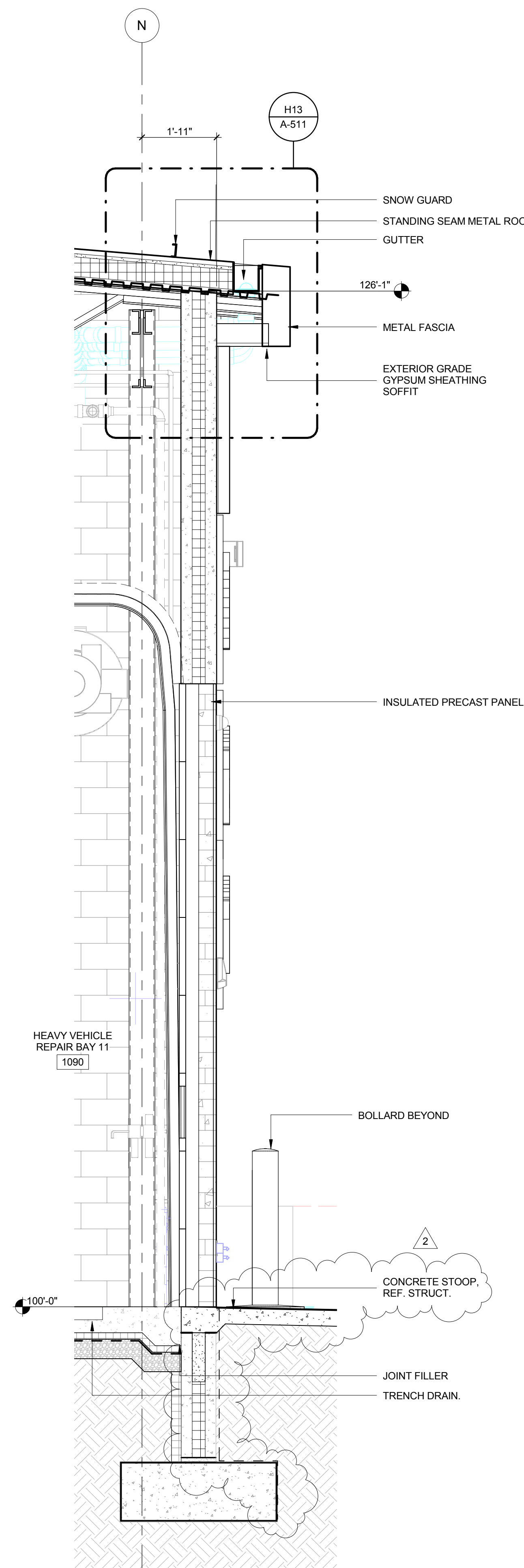
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B	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019
No.	REVISION/SUBMISSION	DATE
PROJECT No: 376603		

N/S WALL SECTIONS

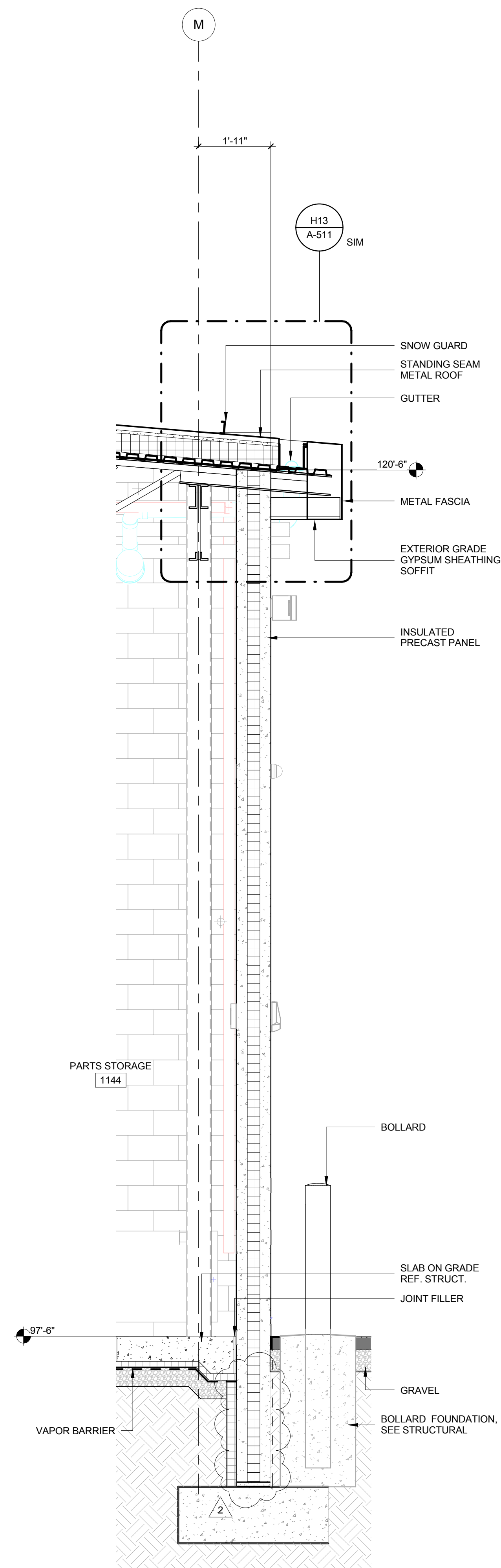
A-312



A6 WALL SECTION @ LIGHT MAINTENANCE
1/2" = 1'-0"



A10 SOUTH WALL SECTION @ HEAVY DUTY
1/2" = 1'-0"



A15 SOUTH WALL SECTION @ RADIO
1/2" = 1'-0"

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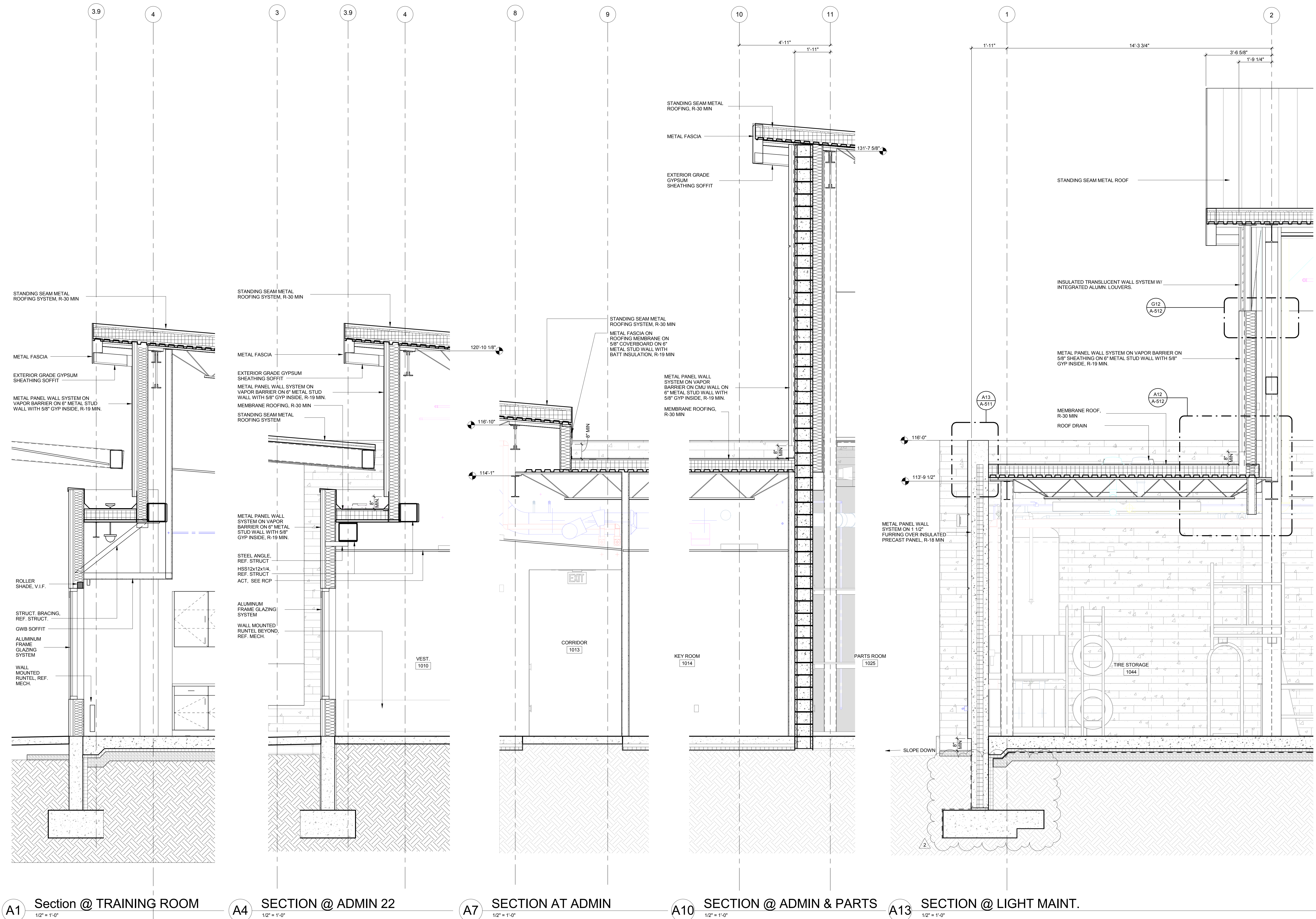
2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019
No	REVISION/SUBMISSION	DATE

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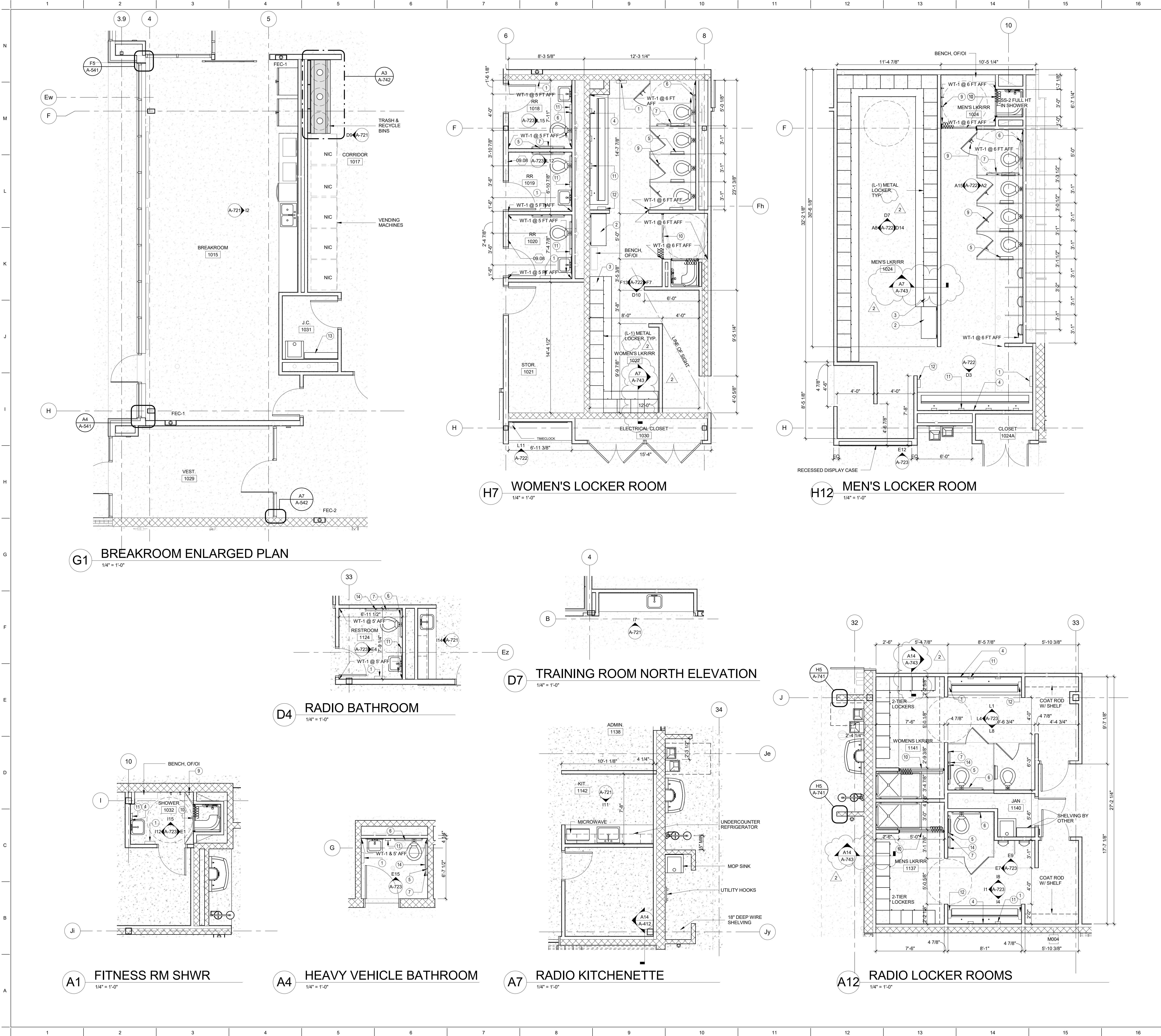
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NEW WALL SECTIONS

A-313



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Sheet: A-401.dwg
02/07/2019



KEY NOTES	
09.08	

GENERAL NOTES	
1.	PROVIDE 1/8" PER FOOT MINIMUM SLOPE TO ALL FLOOR DRAIN WITHIN MIN 2' OF FLOOR DRAIN. TYP FOR ALL BATH ROOM & SHOWER. SEE DETAIL C14/A-751 FOR SHOWER DRAIN DETAIL.
2.	PROVIDE LINEAR FLOOR DRAIN AT ALL SHOWERS.

RESTROOM(S) ACCESORIES	
1	ELECTRIC DRYER WITH STAINLESS STEEL COVER
2	ACCESSIBLE FLOOR MOUNTED BENCH
3	PERSONAL STORAGE LOCKER - SINGLE DOOR W/BENCH DRAWER. SEE A-743 FOR LOCKER DETAIL.
4	MIRROR
5	TOILET TISSUE & SEAT COVER DISPENSER
6	GRAB BAR - 36"
7	GRAB BAR - 42"
9	COAT HOOK
10	SHOWER CURTAIN AND ROD
11	VERTICAL SURFACE MOUNTED SOAP DISPENSER
12	SURFACE MOUNTED PAPER TOWEL DISPENSER
13	UTILITY SHELF WITH MOP/BROOM HOLDER
14	VERTICAL GRAB BAR - 18"

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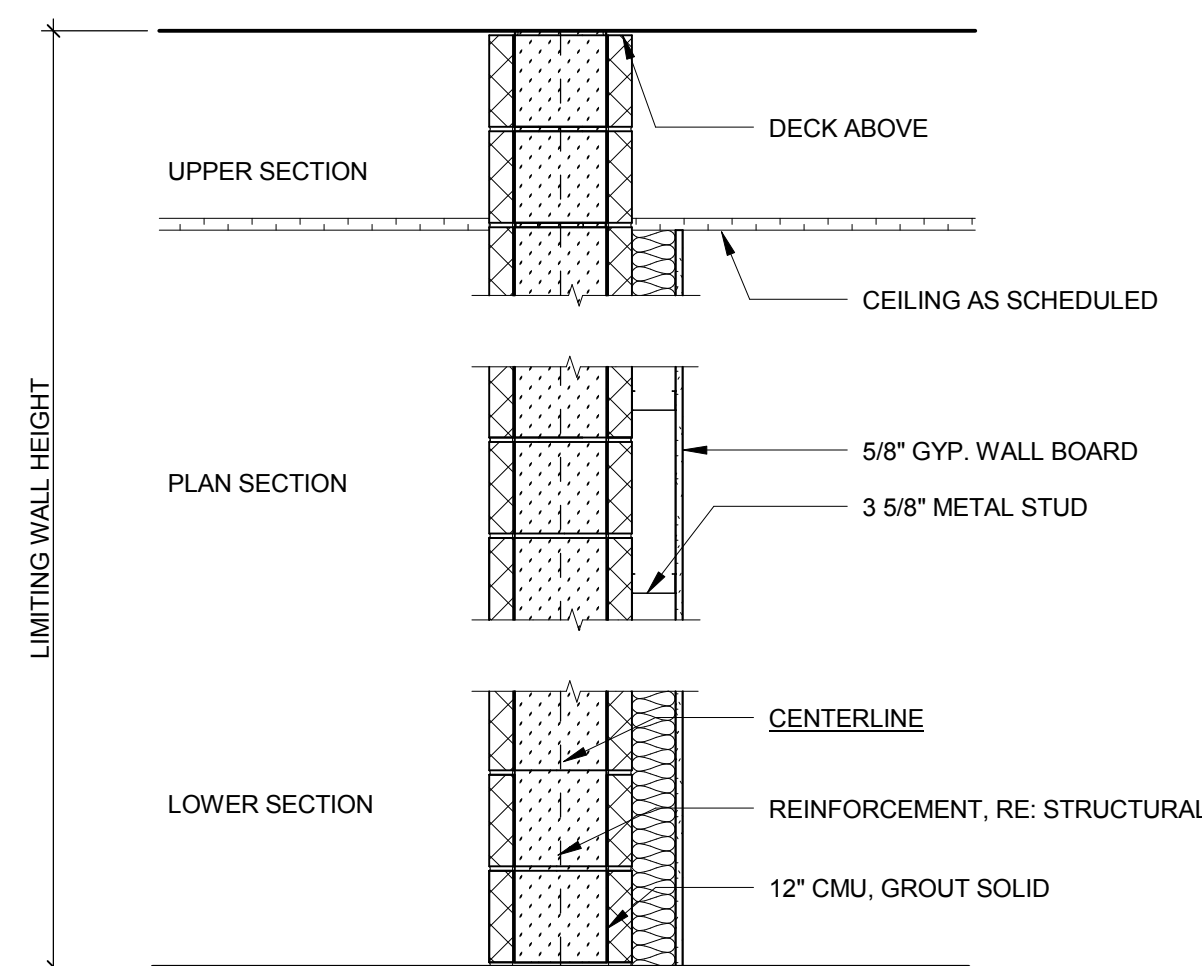
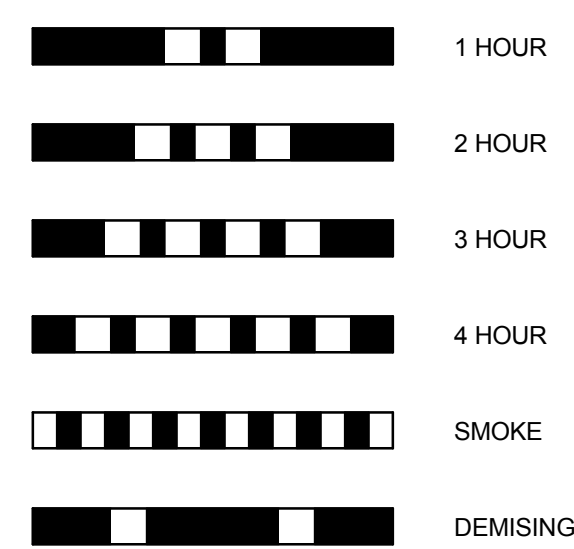
PROJECT No: 376603

ENLARGED PLANS

A-401

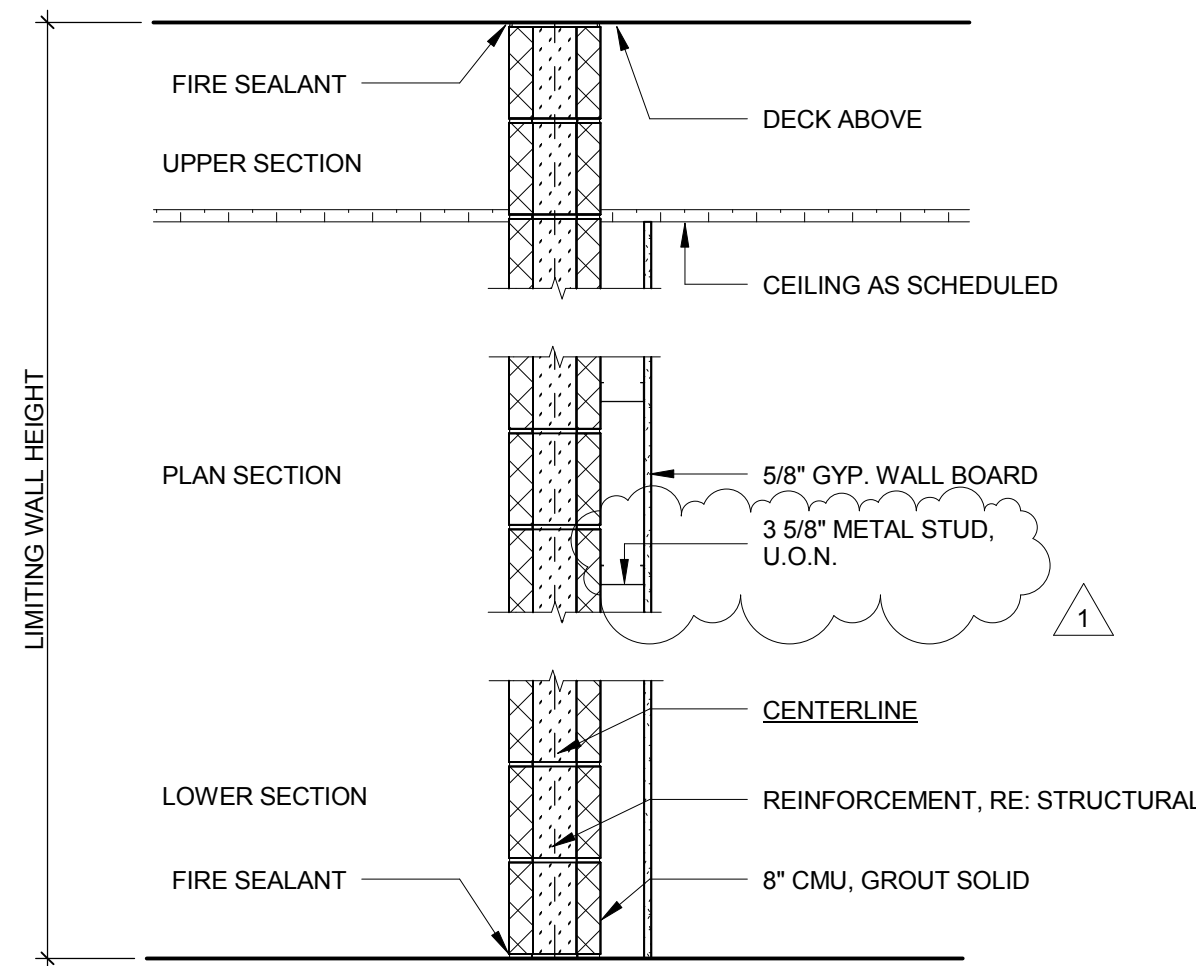
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PARTITION LEGEND



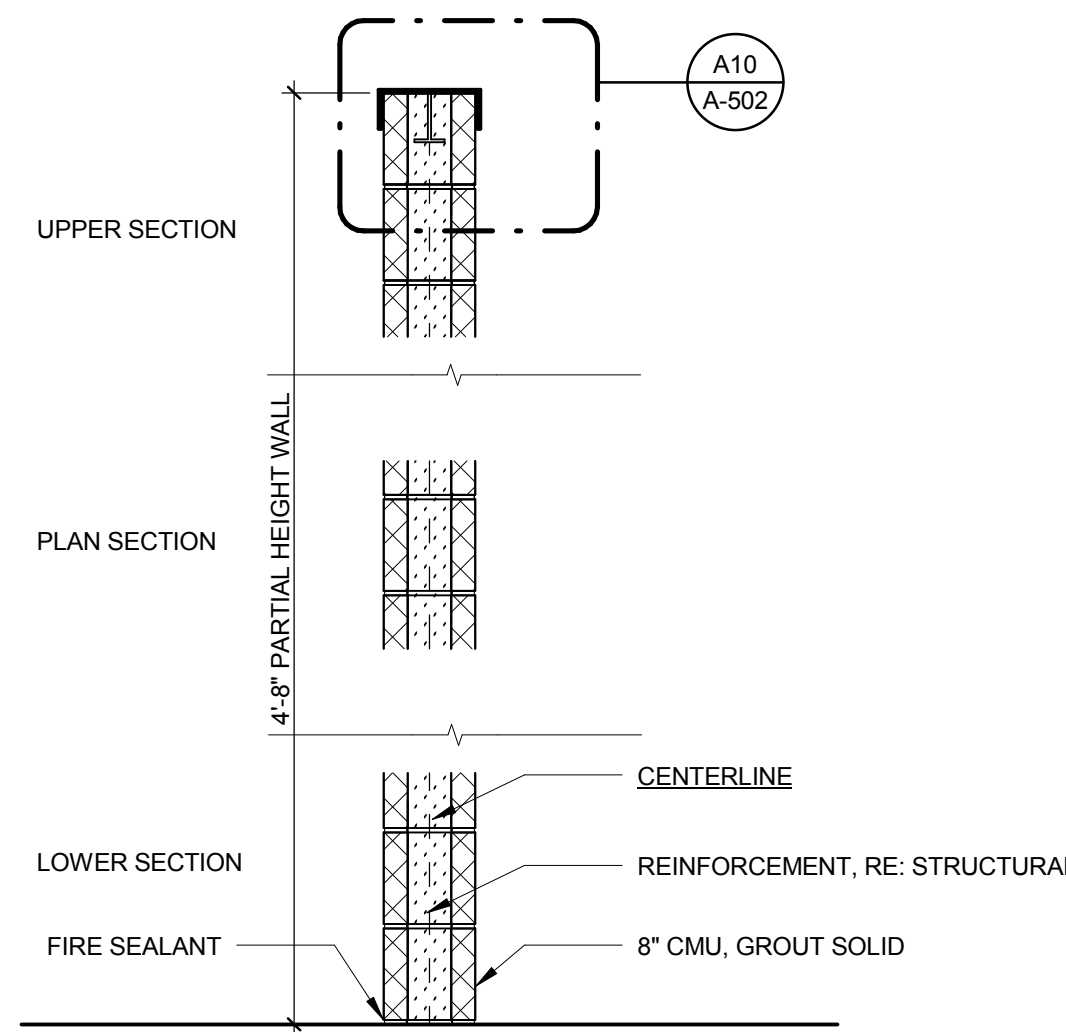
FIRE RATING:	
UL DESIGN:	
STC RATING:	
SOUND TEST NO.:	

H1 PARTITION TYPE M006
3/4" = 1'-0"



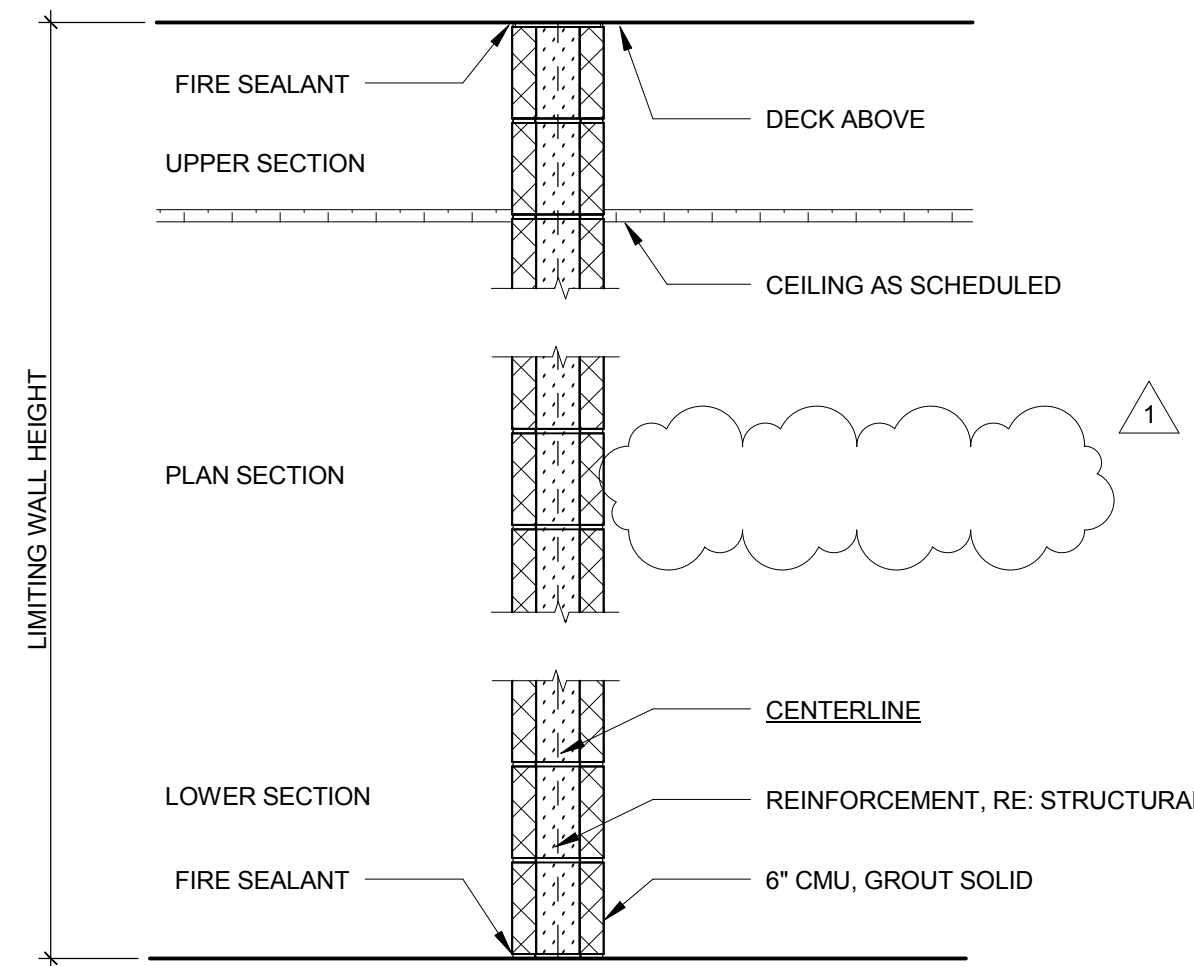
FIRE RATING:	1 HR
UL DESIGN:	U905
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H4 PARTITION TYPE M004
3/4" = 1'-0"



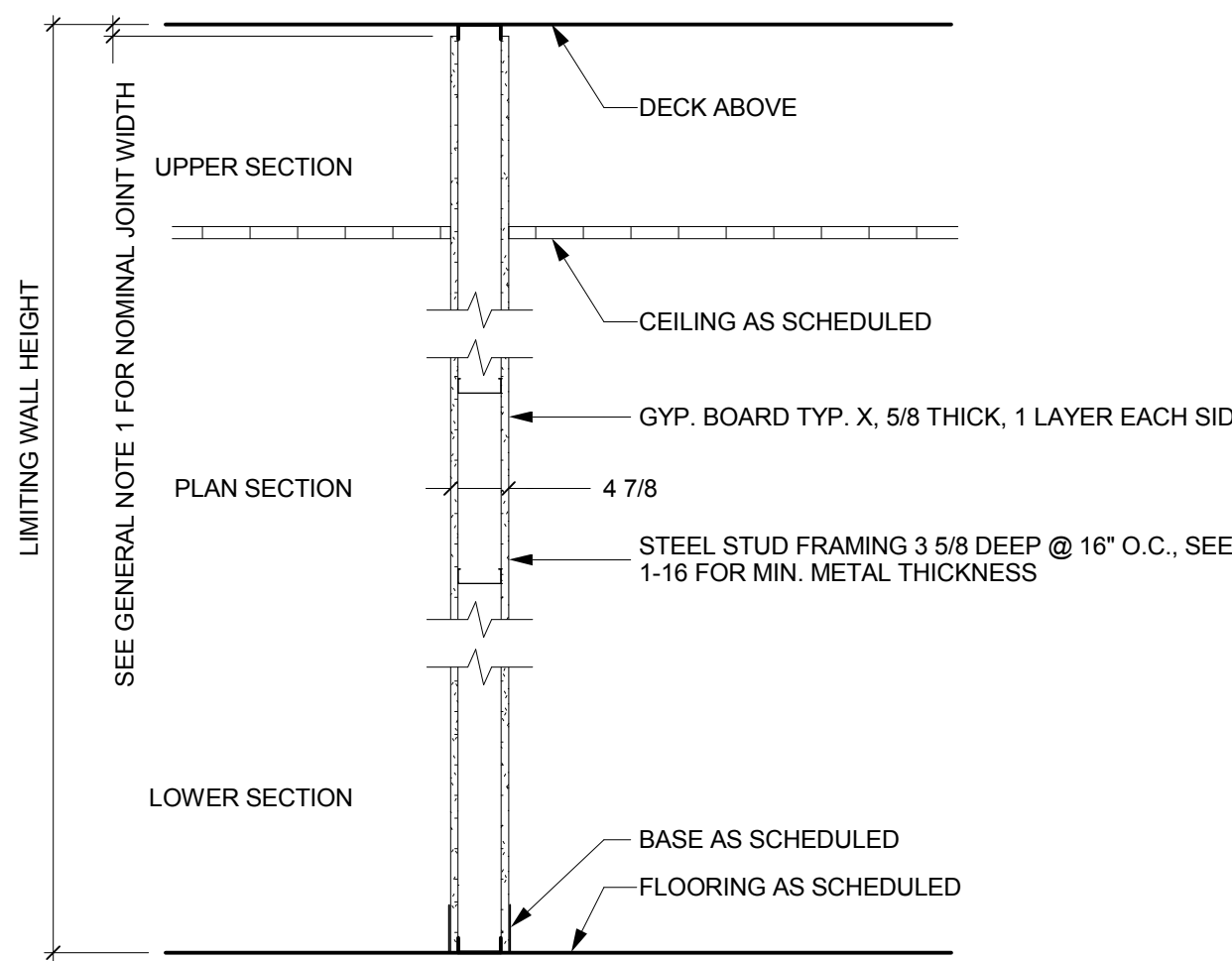
FIRE RATING:	N/A
UL DESIGN:	N/A
STC RATING:	
SOUND TEST NO.:	

H8 PARTITION TYPE M002
3/4" = 1'-0"



FIRE RATING:	
UL DESIGN:	
STC RATING:	
SOUND TEST NO.:	

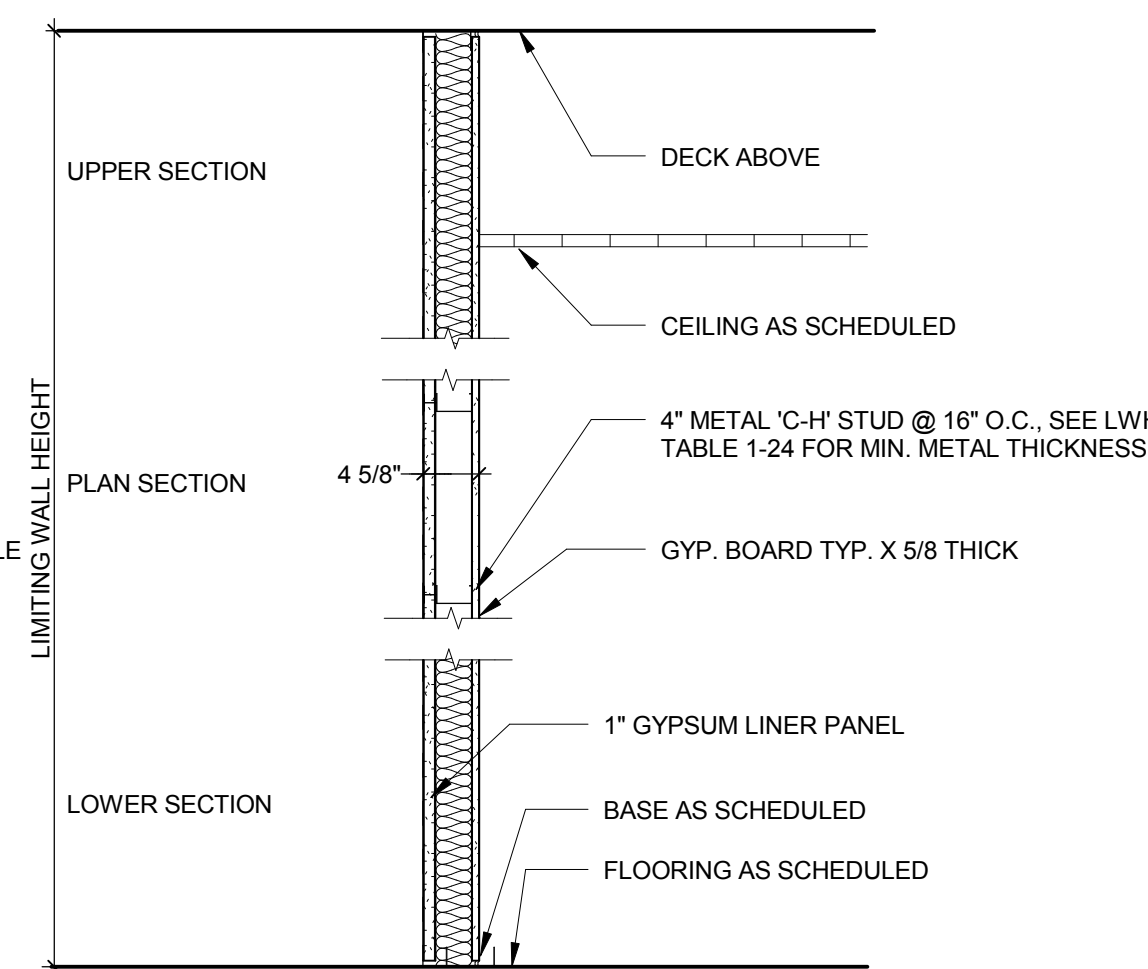
1 PARTITION TYPE M001
3/4" = 1'-0"



FIRE RATING:	1 HOUR
UL DESIGN:	465
STC RATING:	38
SOUND TEST NO.:	NBC-S42 FOR WALL ASSEMBLY 0, SLSS397/NRC-TL 92 418

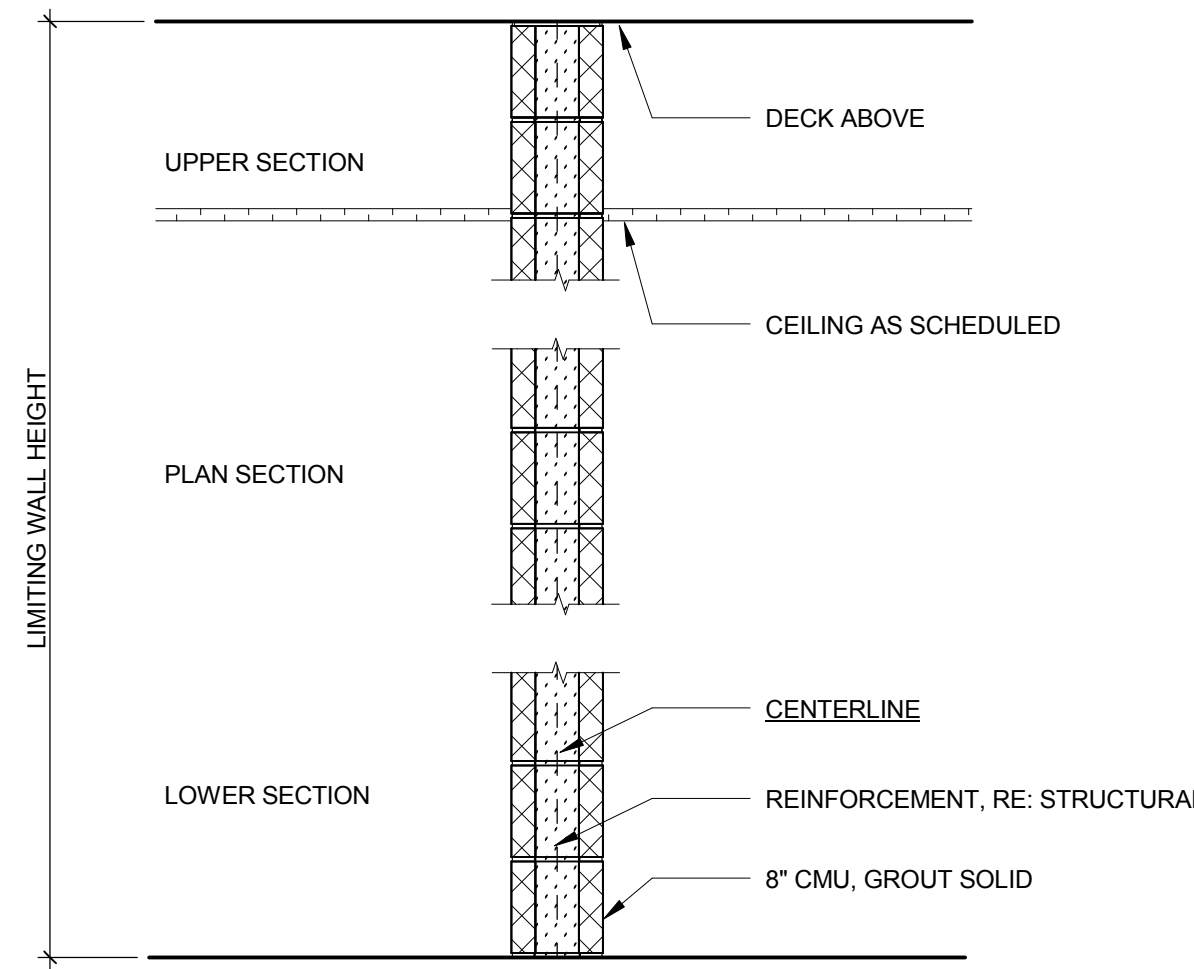
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E1 PARTITION TYPE R002
3/4" = 1'-0"



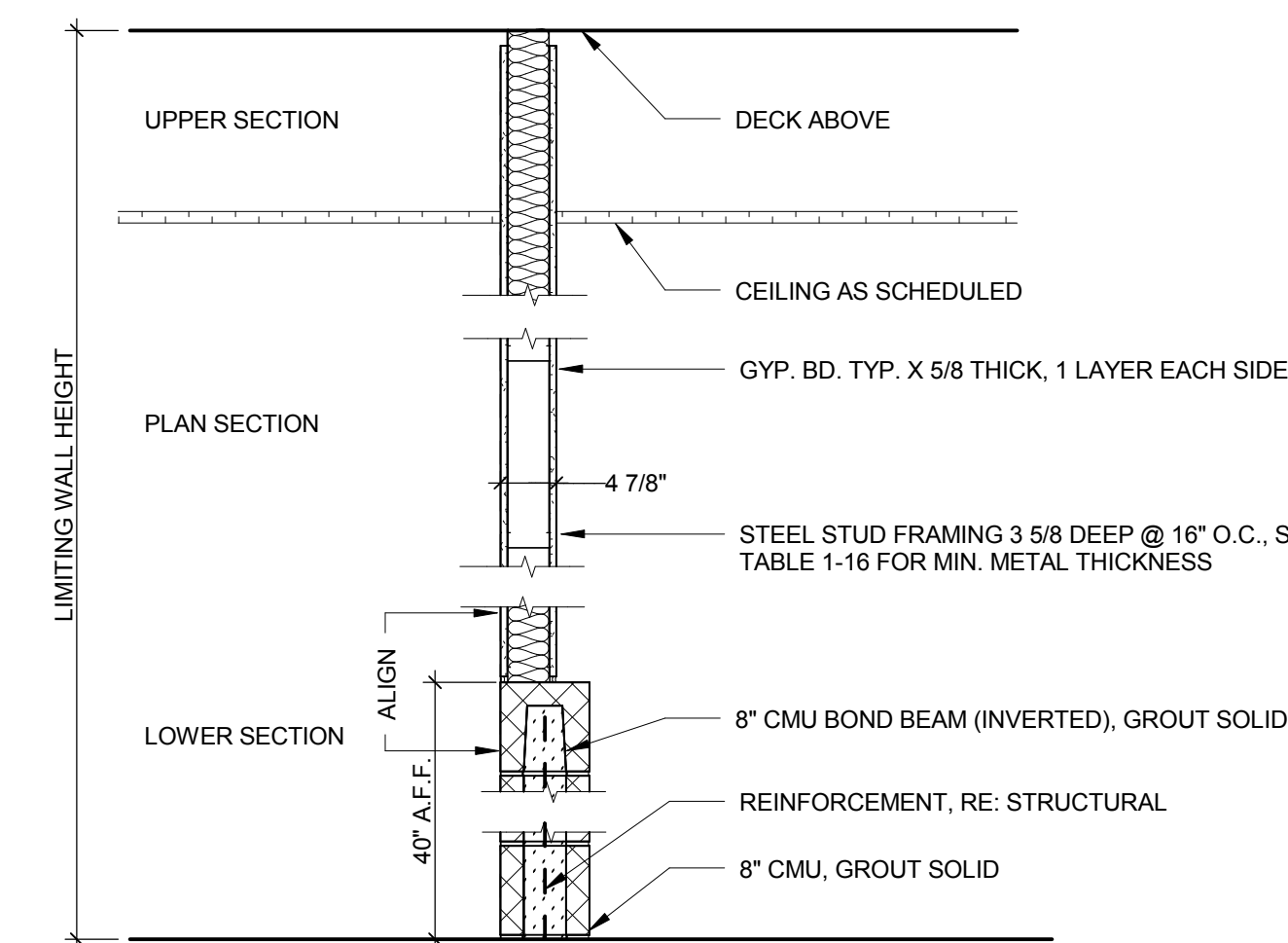
FIRE RATING:	
UL DESIGN:	
STC RATING:	
SOUND TEST NO.:	

E4 PARTITION TYPE A043
3/4" = 1'-0"



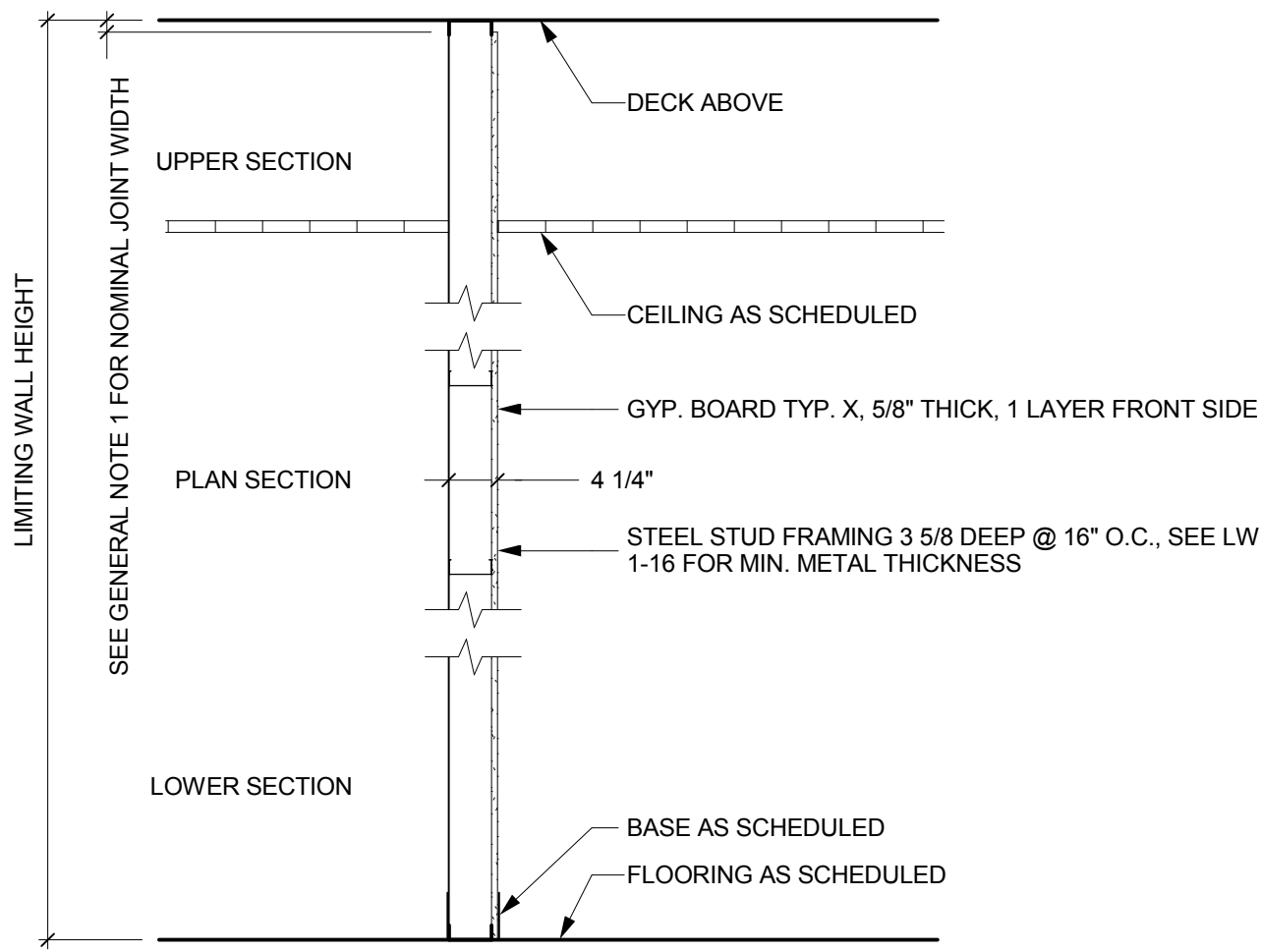
FIRE RATING:	
UL DESIGN:	
STC RATING:	
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E8 PARTITION TYPE A042, R070
3/4" = 1'-0"



FIRE RATING:	
UL DESIGN:	
STC RATING:	
SOUND TEST NO.:	

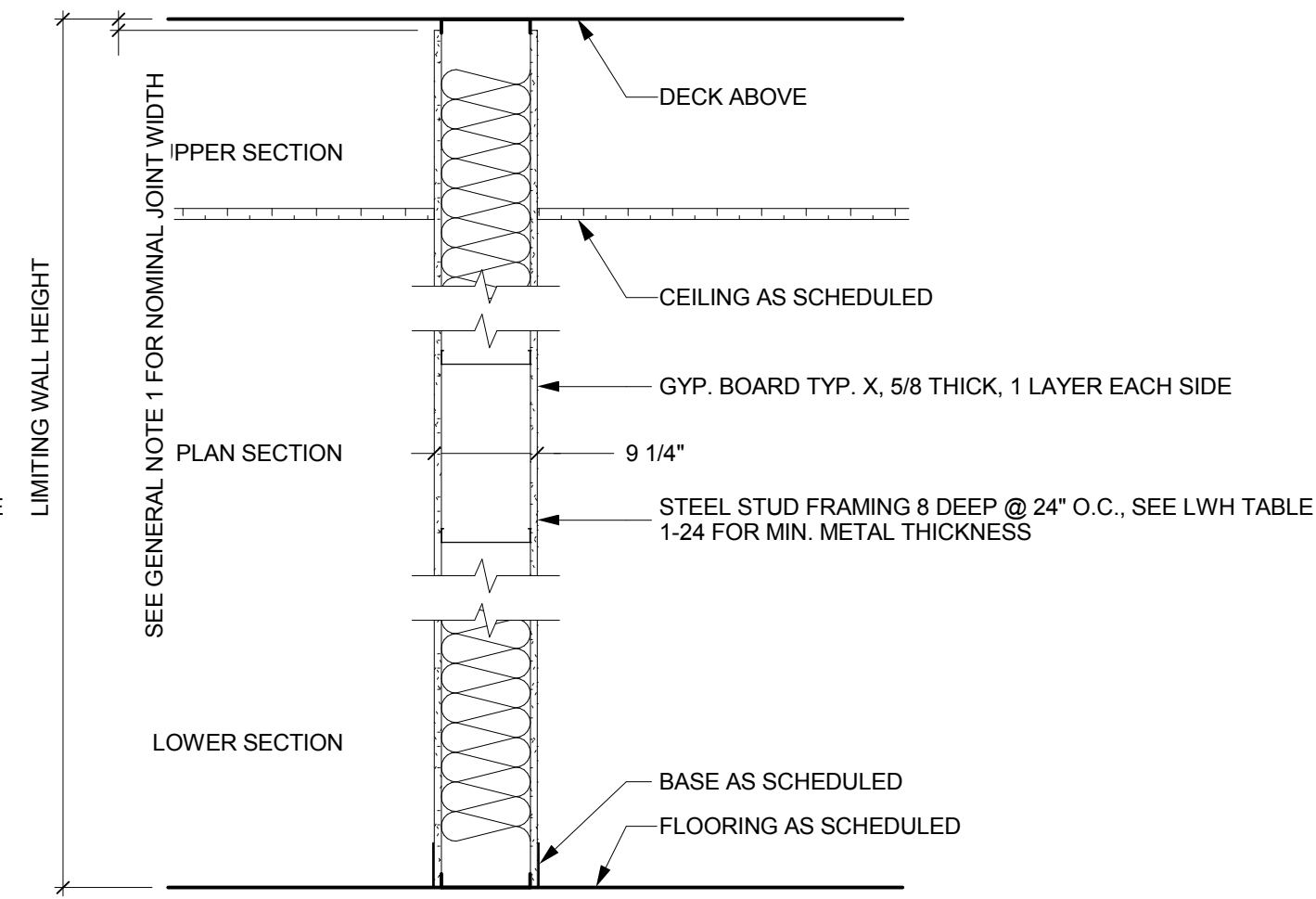
E12 PARTITION TYPE A041
3/4" = 1'-0"



FIRE RATING:	NA
UL DESIGN:	NA
STC RATING:	NA
SOUND TEST NO.:	NA

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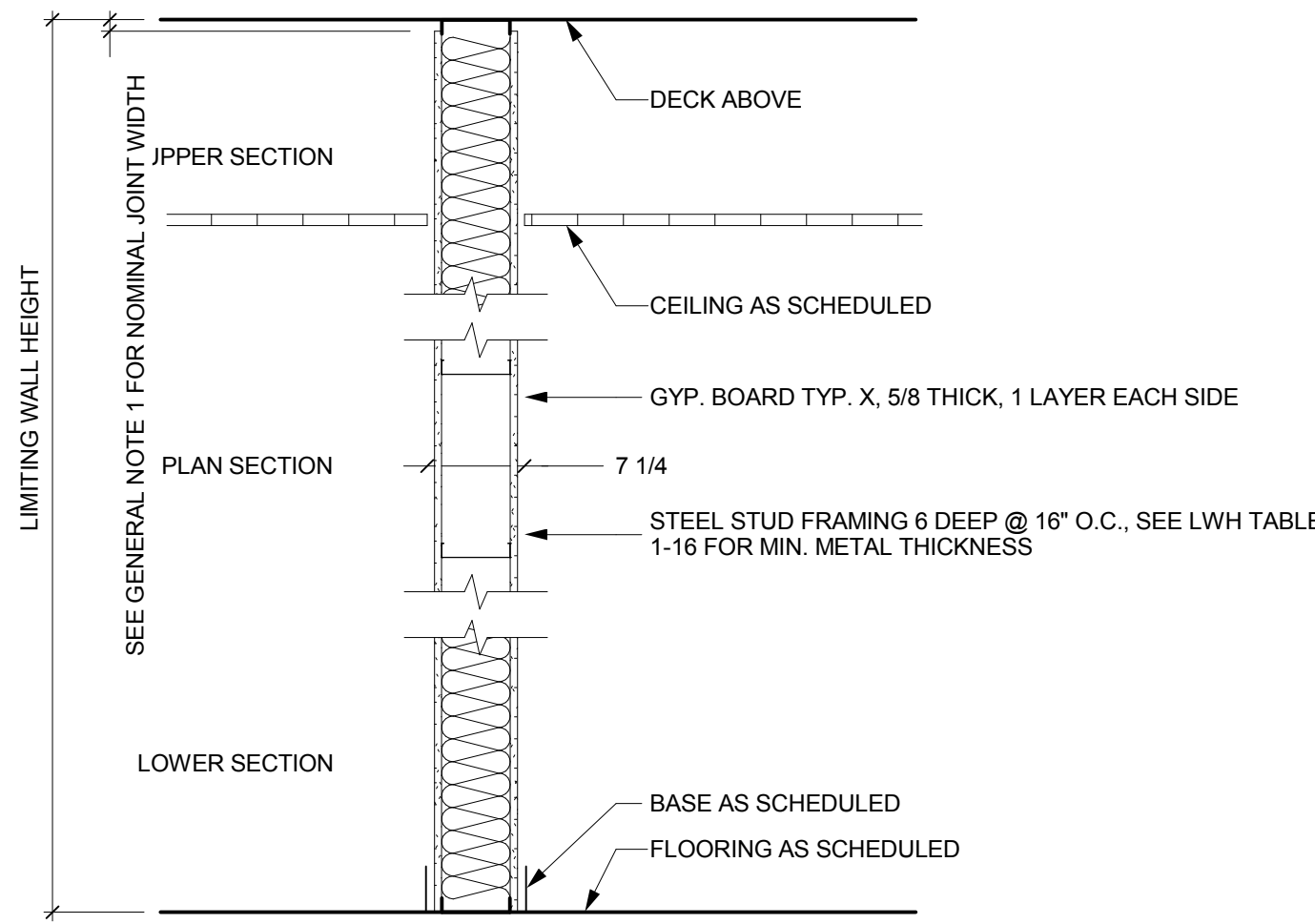
A1 PARTITION TYPE A040
3/4" = 1'-0"



FIRE RATING:	NA
UL DESIGN:	NA
STC RATING:	1
SOUND TEST NO.:	NA

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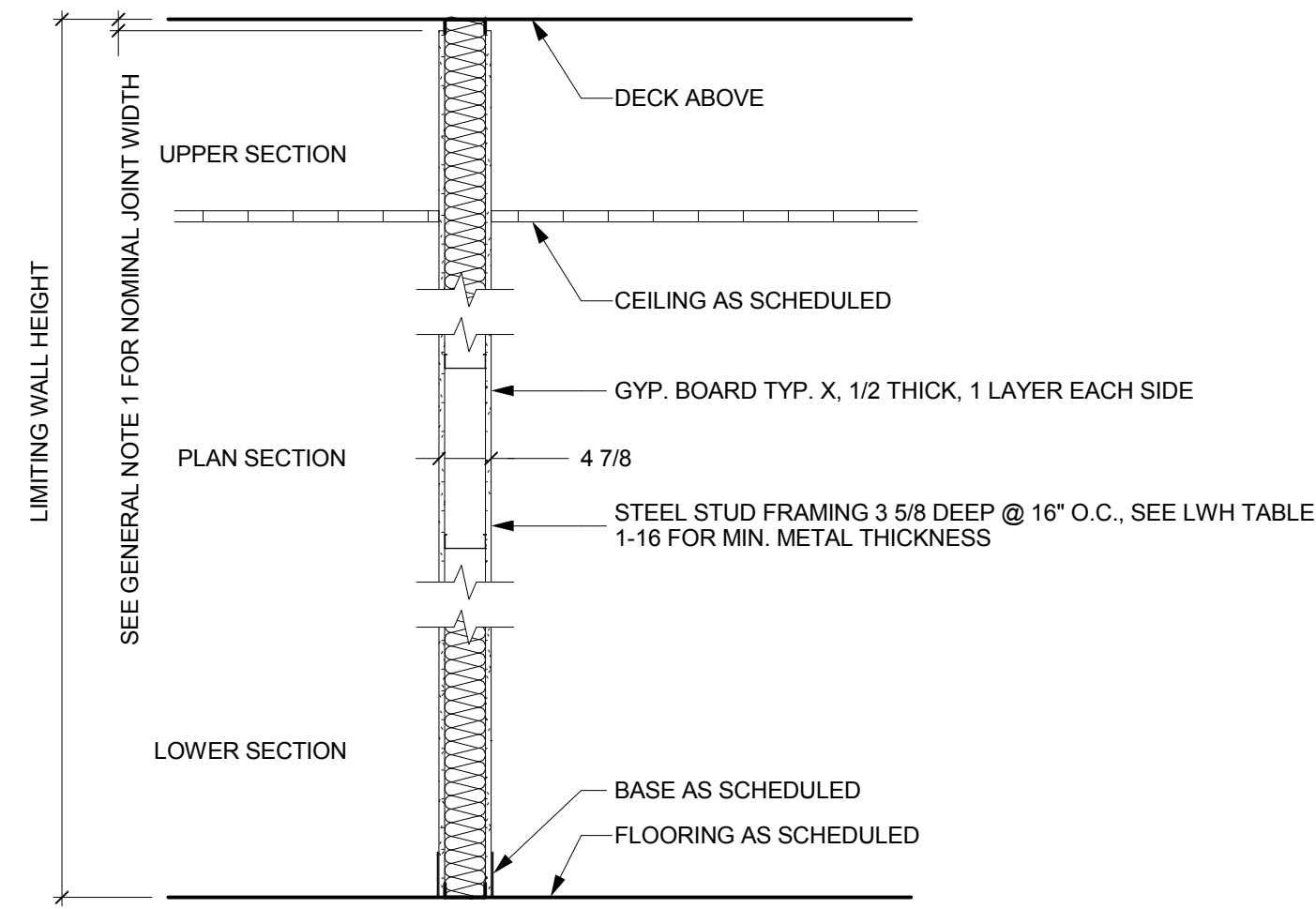
A4 PARTITION TYPE A036
3/4" = 1'-0"



FIRE RATING:	NA
UL DESIGN:	NA
STC RATING:	51
SOUND TEST NO.:	ALA-TL89-288

0.51.058.1.0.1016.0.1.1.00

A8 PARTITION TYPE A014
3/4" = 1'-0"



FIRE RATING:	NA
UL DESIGN:	NA
STC RATING:	NA
SOUND TEST NO.:	NA

0.38.039.1.0.1016.0.1.1.00

A12 PARTITION TYPE A005
3/4" = 1'-0"



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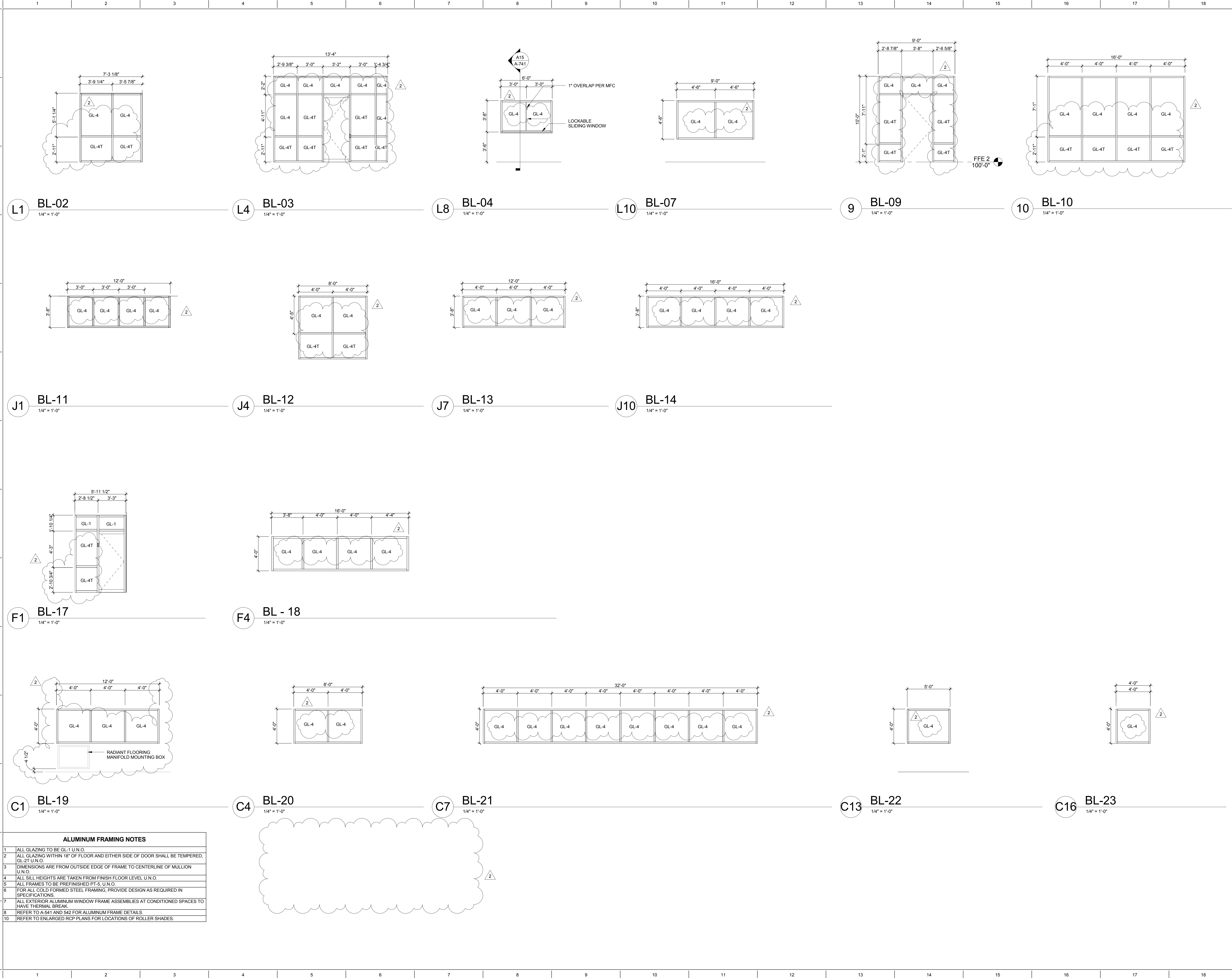
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PARTITION TYPES

A-501

C:\Users\stanc\OneDrive\Documents\BL Window Elevation\BL Window Elevation.dwg, 04/14/2019, 10:41:11 AM
DWG: BL_Window Elevation.dwg, 04/14/2019, 10:41:11 AM
PLOT: BL_Window Elevation.dwg, 04/14/2019, 10:41:11 AM



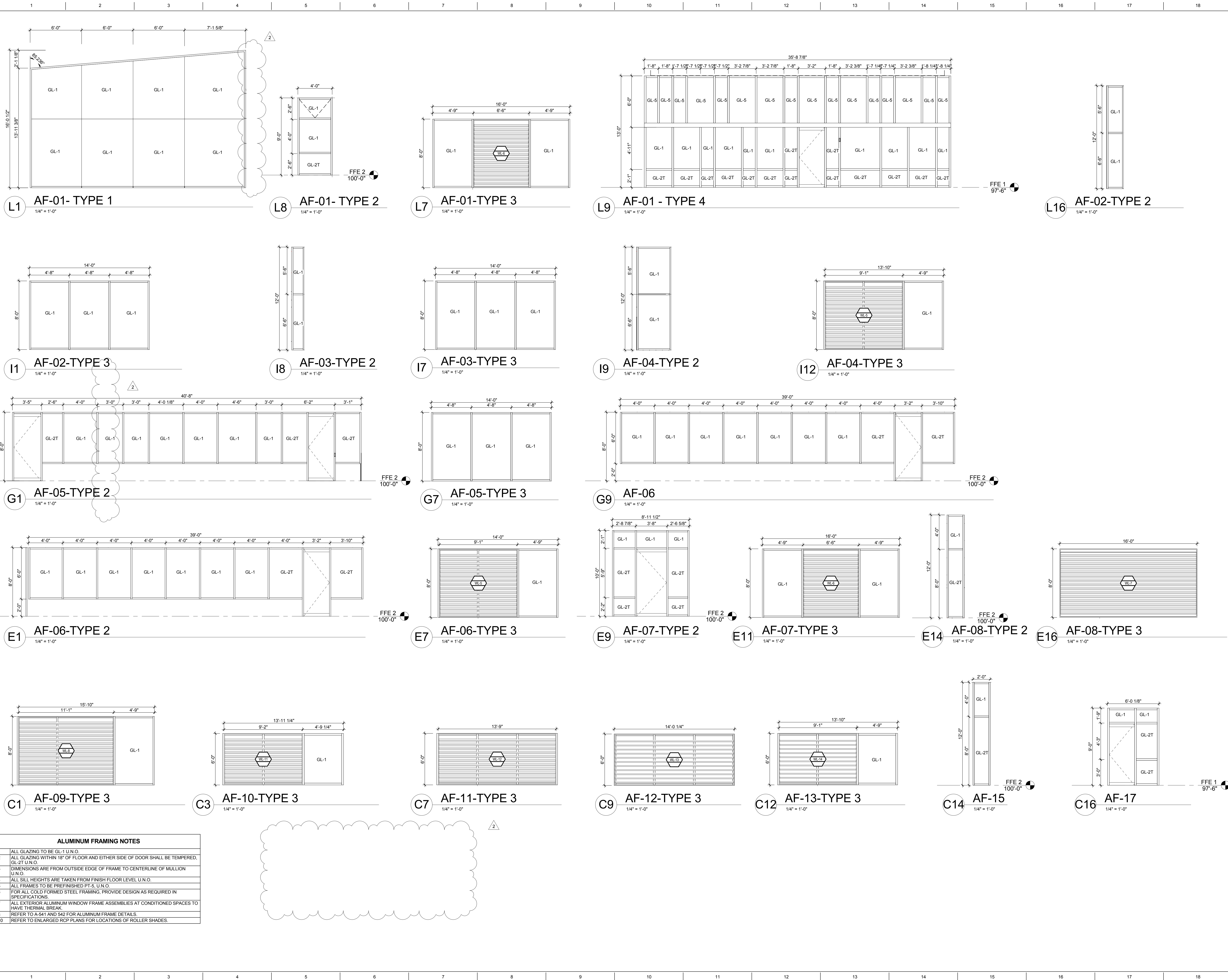


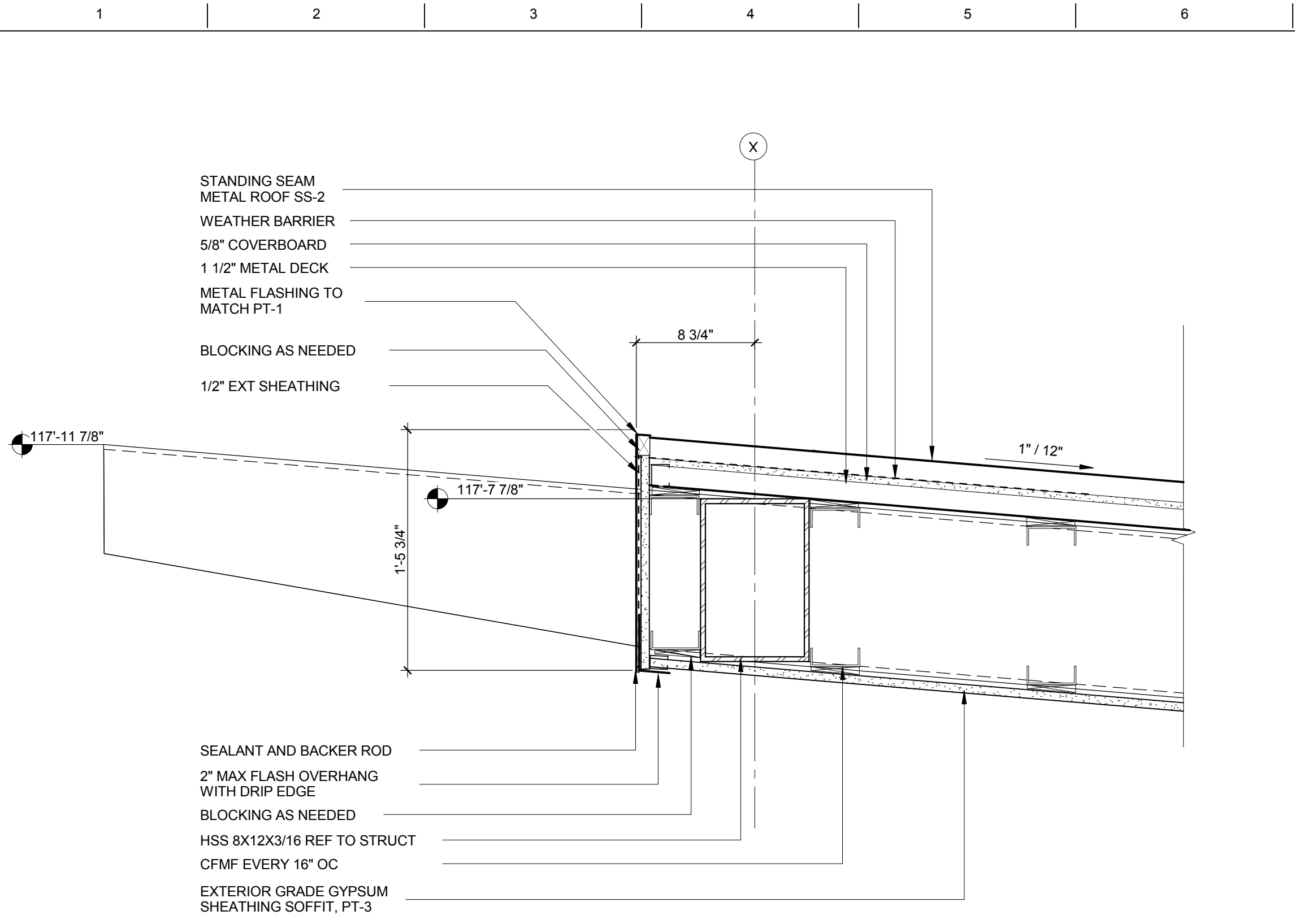
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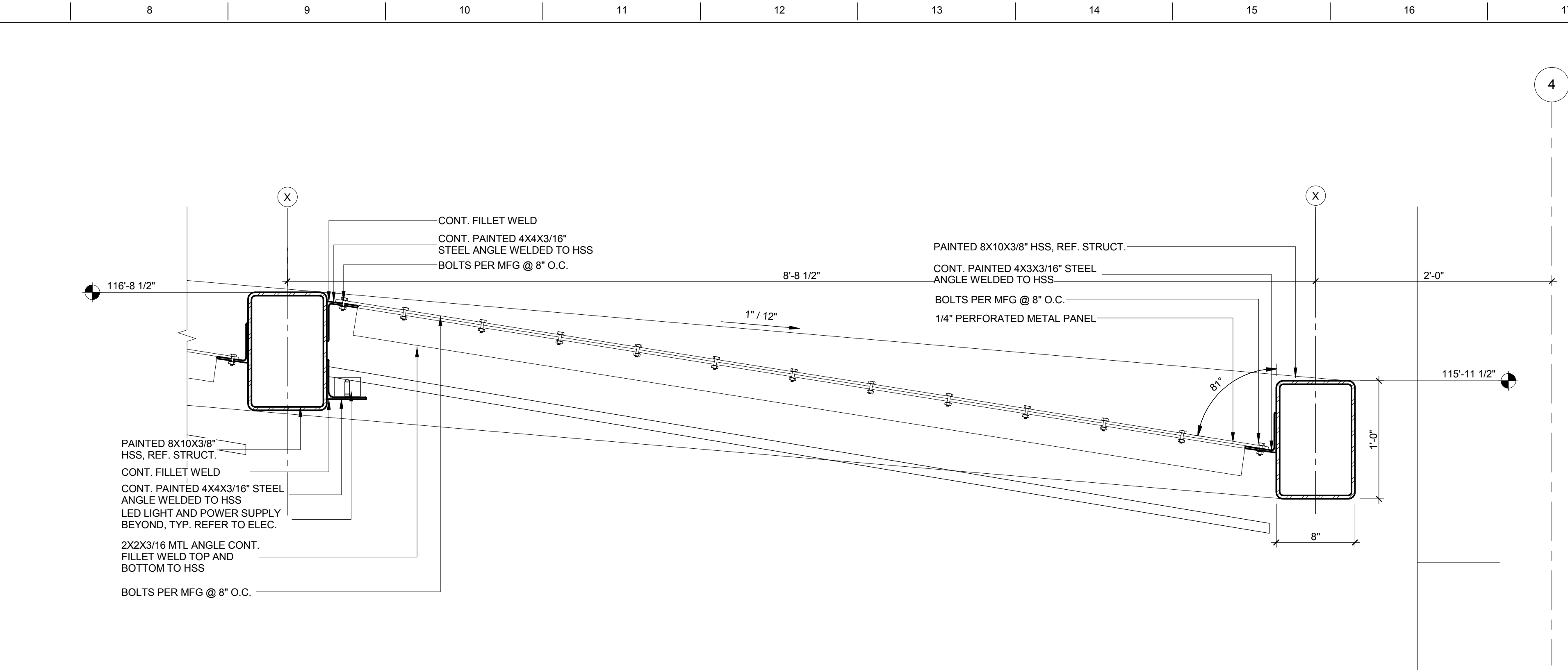
BL WINDOW ELEVATIONS

A-503

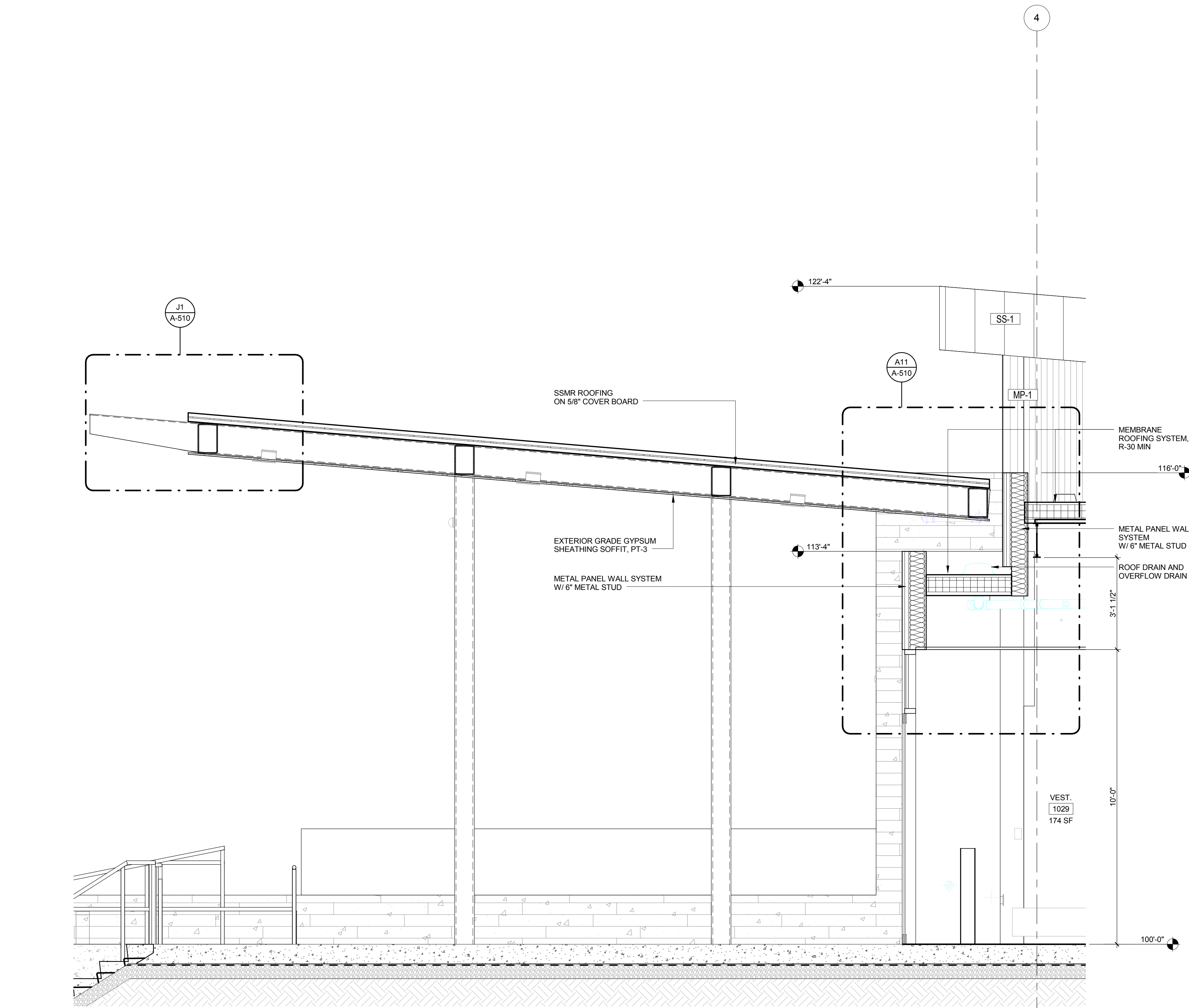




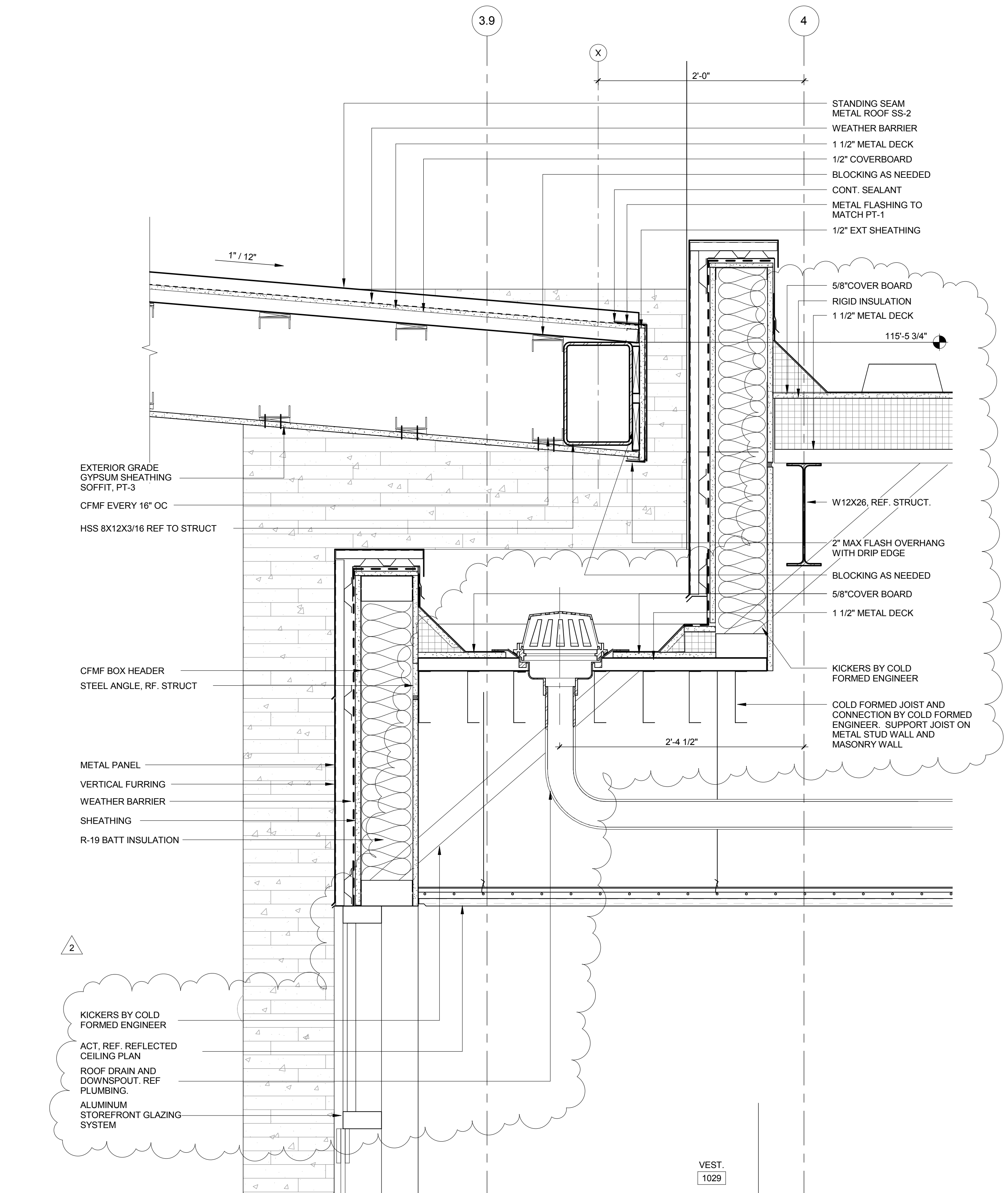
J1 ENTRY PLAZA CANOPY SOLID - FRONT
1 1/2" = 1'-0"



J7 ENTRY PLAZA CANOPY PERF-BACK
1 1/2" = 1'-0"

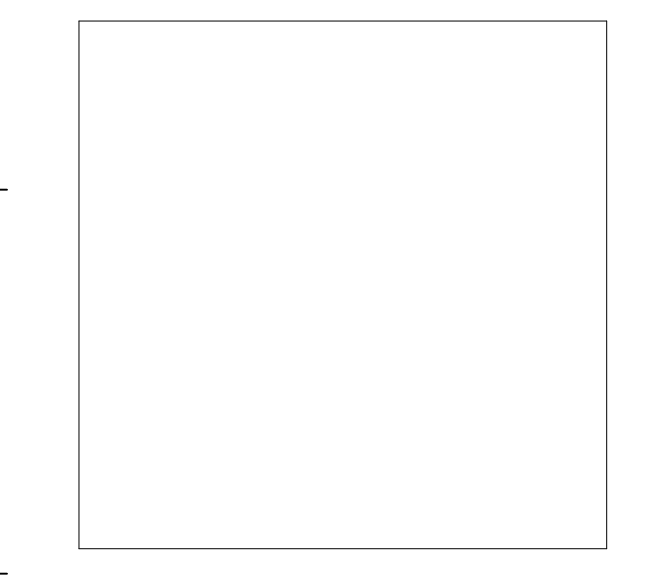


A1 ENTRY PLAZA CANOPY SECTION
1/2" = 1'-0"



A11 ENTRY PLAZA CANOPY SECTION - Callout 1
1 1/2" = 1'-0"

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CANOPY DETAILS

A-510

$$1\frac{1}{2}'' = 1'-0''$$

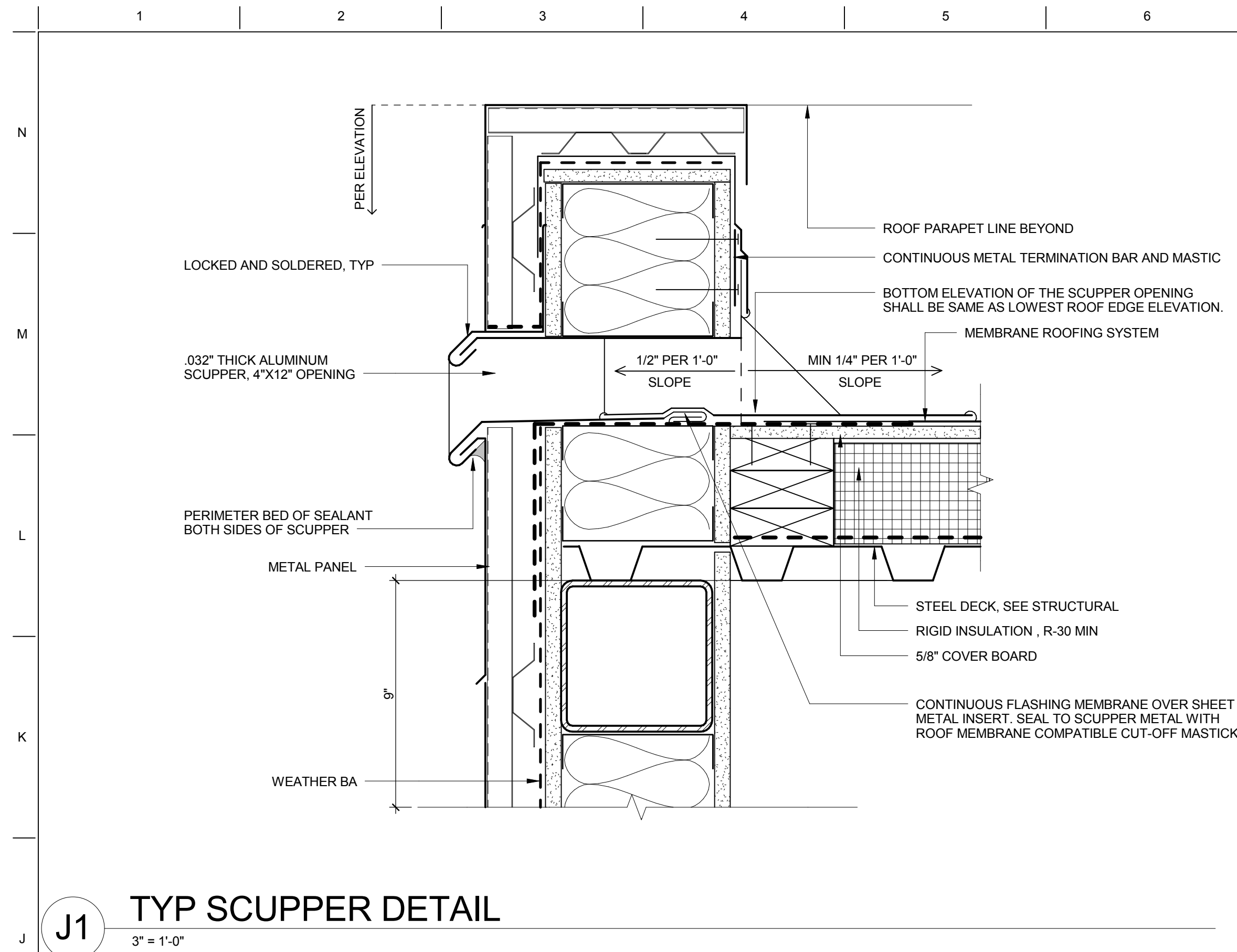
1 1/2" = 1'-0"

G1

A6

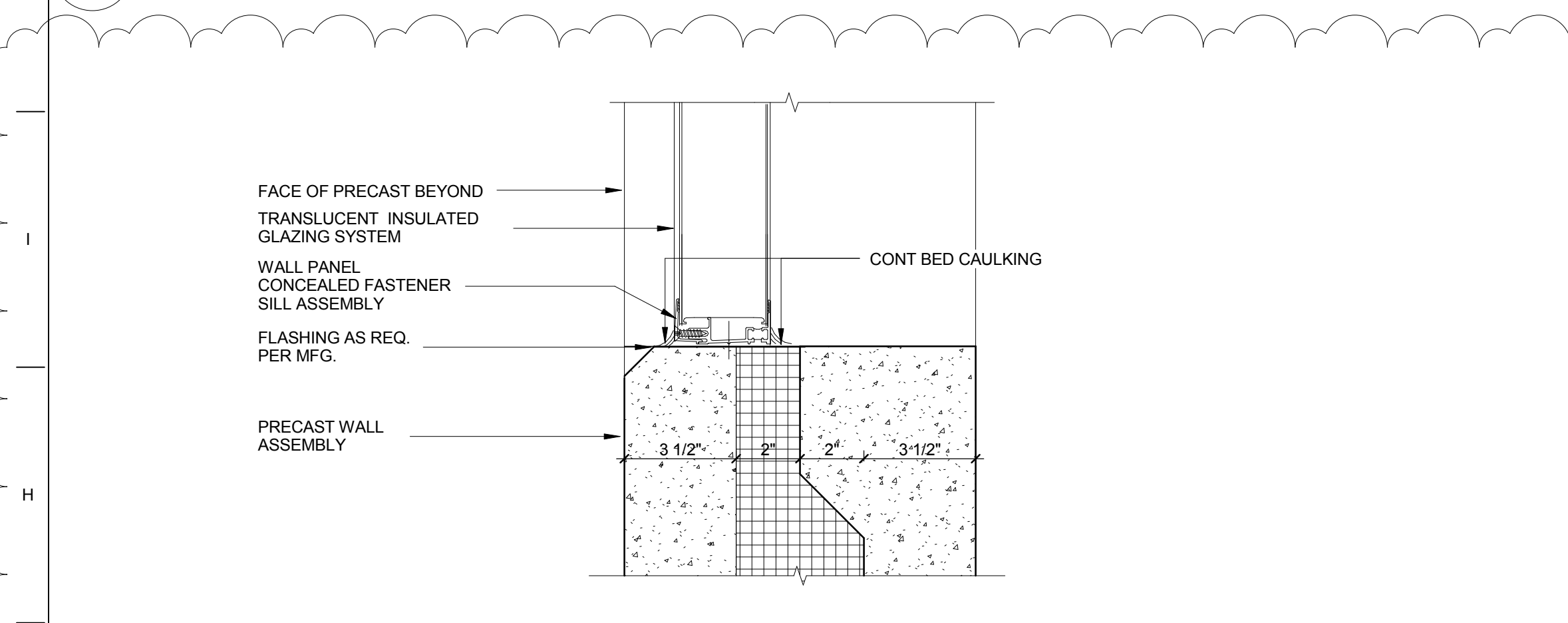
(A13)

A 1



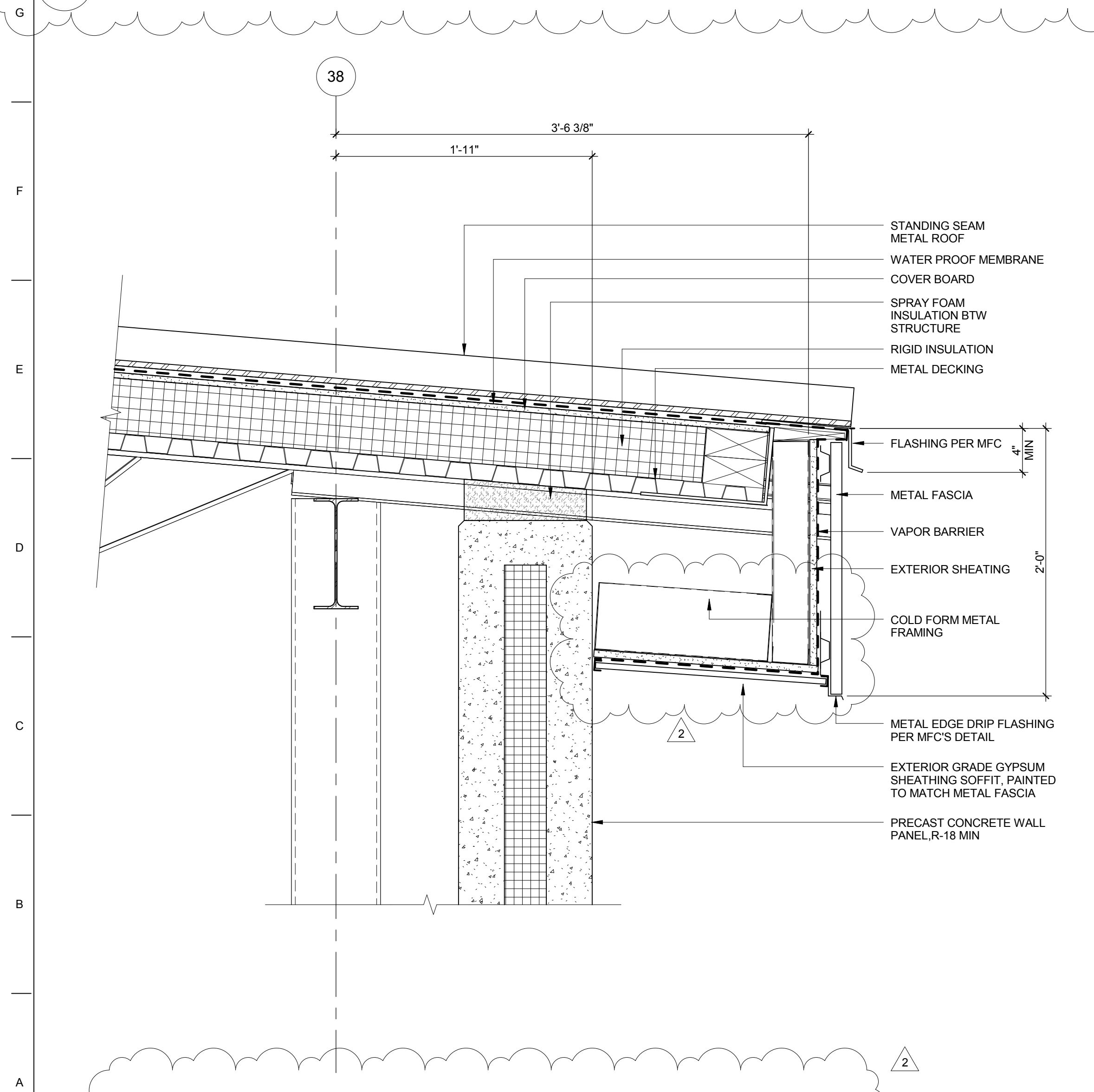
J1 TYP SCUPPER DETAIL

3" = 1'-0"



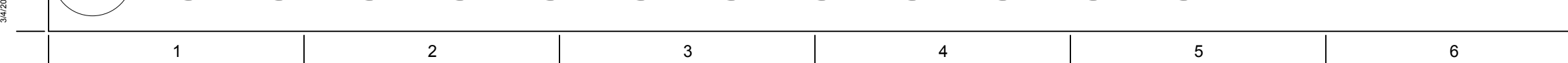
G1 TRANSLUCENT WALL SILL DETAIL AT PC

3" = 1'-0"



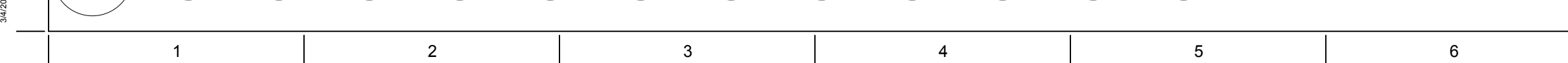
A1 SECONDARY BLDG ROOF DETAIL - BID ALT NO. 1

1 1/2" = 1'-0"



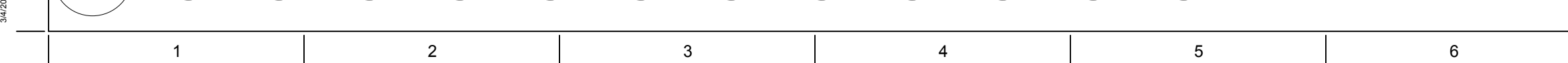
A7 WALL FOUNDATION SECTION AT PARTS RM

1 1/2" = 1'-0"



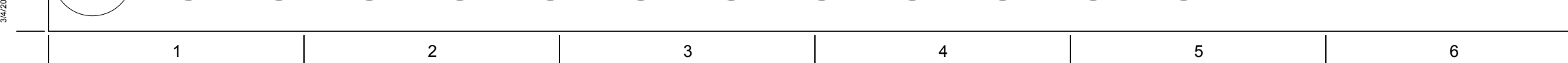
A12 UPPER WALL SECTION AT LIGHT DUTY MAINT.

1 1/2" = 1'-0"



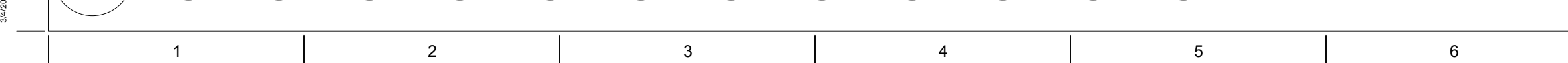
J7 ROOF SECTION AT PARTS RM

1 1/2" = 1'-0"



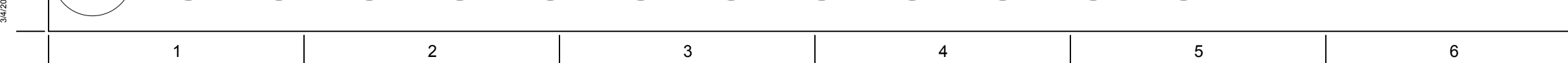
J12 TOP - NORTH WALL AT LIGHT DUTY MAINTENCE

1 1/2" = 1'-0"



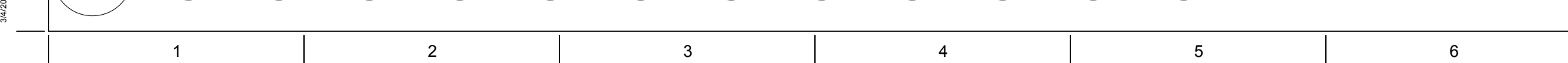
G7 TRANSLUCENT WALL SILL DETAIL @ MTL PANEL

3" = 1'-0"



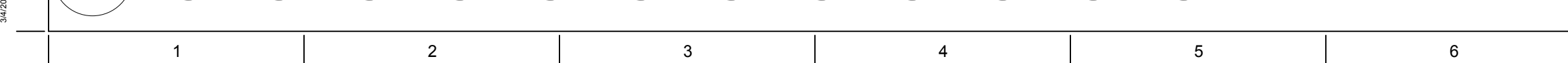
G12 SILL DETAIL AT KALWALL

1 1/2" = 1'-0"



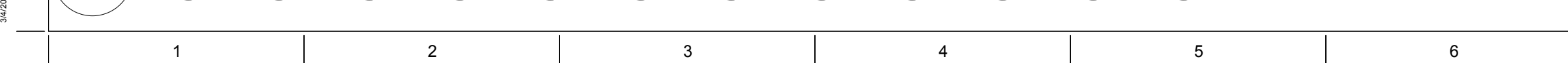
A7 WALL FOUNDATION SECTION AT PARTS RM

1 1/2" = 1'-0"



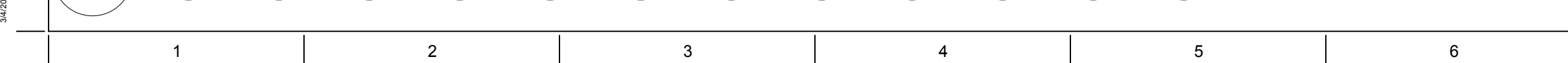
J7 ROOF SECTION AT PARTS RM

1 1/2" = 1'-0"



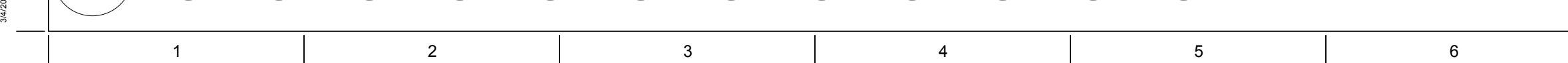
J12 TOP - NORTH WALL AT LIGHT DUTY MAINTENCE

1 1/2" = 1'-0"



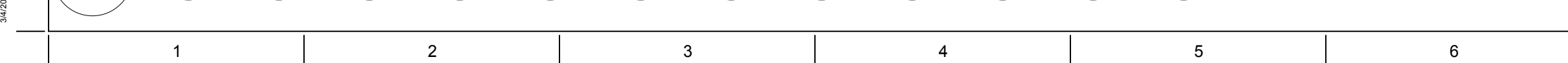
G7 TRANSLUCENT WALL SILL DETAIL @ MTL PANEL

3" = 1'-0"



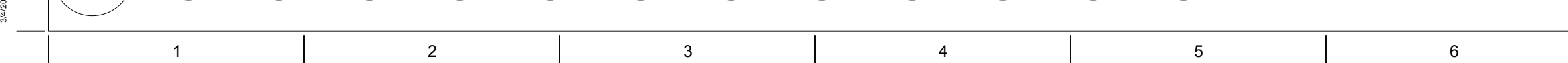
G12 SILL DETAIL AT KALWALL

1 1/2" = 1'-0"



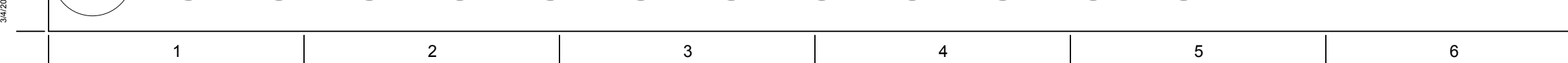
A7 WALL FOUNDATION SECTION AT PARTS RM

1 1/2" = 1'-0"



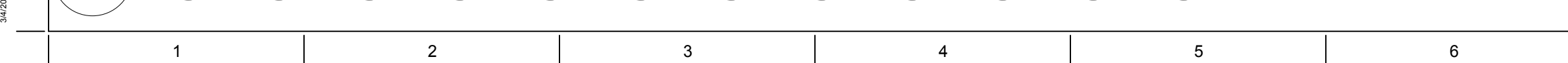
J7 ROOF SECTION AT PARTS RM

1 1/2" = 1'-0"



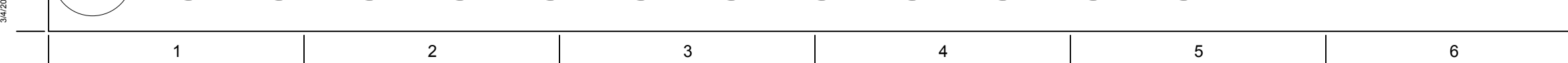
J12 TOP - NORTH WALL AT LIGHT DUTY MAINTENCE

1 1/2" = 1'-0"



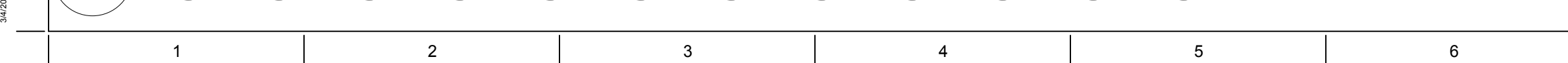
G7 TRANSLUCENT WALL SILL DETAIL @ MTL PANEL

3" = 1'-0"



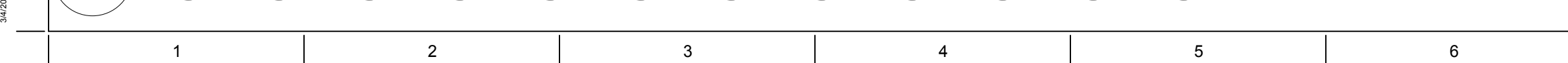
G12 SILL DETAIL AT KALWALL

1 1/2" = 1'-0"



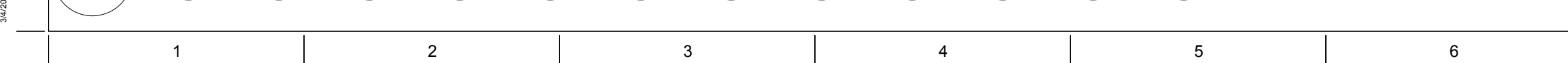
A7 WALL FOUNDATION SECTION AT PARTS RM

1 1/2" = 1'-0"



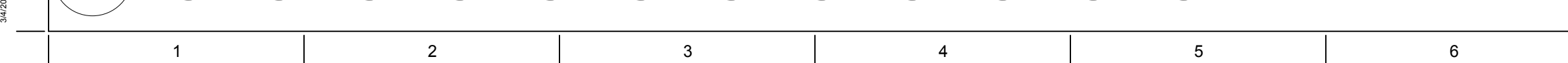
J7 ROOF SECTION AT PARTS RM

1 1/2" = 1'-0"



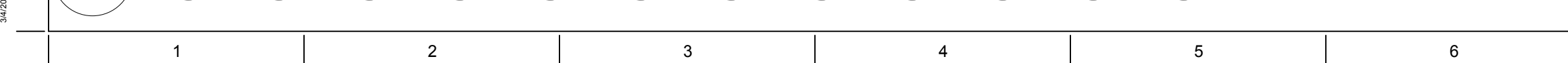
J12 TOP - NORTH WALL AT LIGHT DUTY MAINTENCE

1 1/2" = 1'-0"



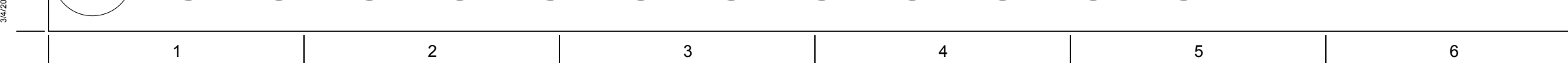
G7 TRANSLUCENT WALL SILL DETAIL @ MTL PANEL

3" = 1'-0"



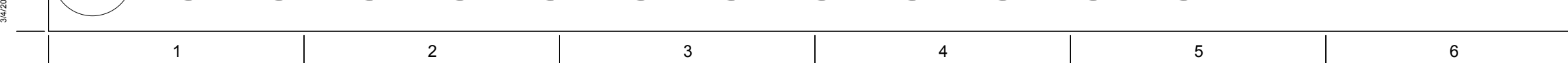
G12 SILL DETAIL AT KALWALL

1 1/2" = 1'-0"



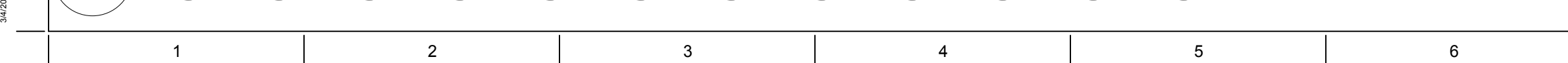
A7 WALL FOUNDATION SECTION AT PARTS RM

1 1/2" = 1'-0"



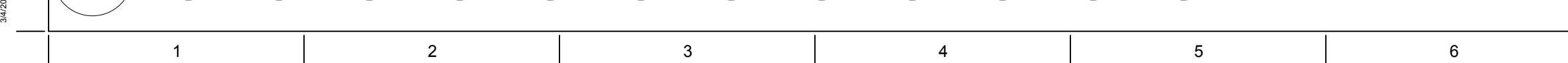
J7 ROOF SECTION AT PARTS RM

1 1/2" = 1'-0"



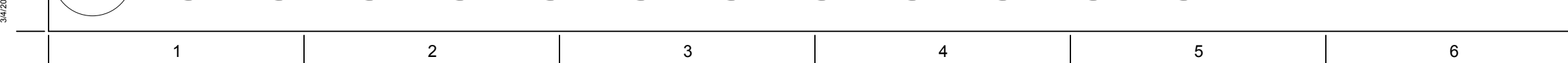
J12 TOP - NORTH WALL AT LIGHT DUTY MAINTENCE

1 1/2" = 1'-0"



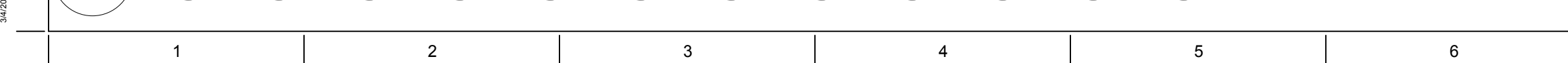
G7 TRANSLUCENT WALL SILL DETAIL @ MTL PANEL

3" = 1'-0"



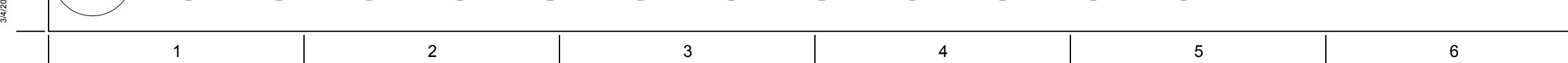
G12 SILL DETAIL AT KALWALL

1 1/2" = 1'-0"



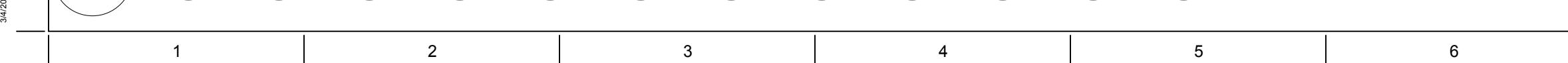
A7 WALL FOUNDATION SECTION AT PARTS RM

1 1/2" = 1'-0"



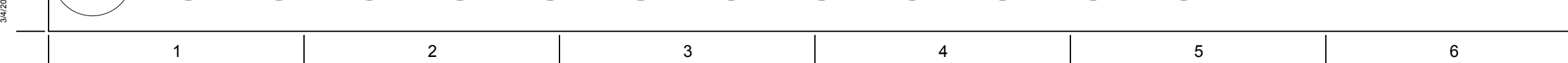
J7 ROOF SECTION AT PARTS RM

1 1/2" = 1'-0"



J12 TOP - NORTH WALL AT LIGHT DUTY MAINTENCE

1 1/2" = 1'-0"

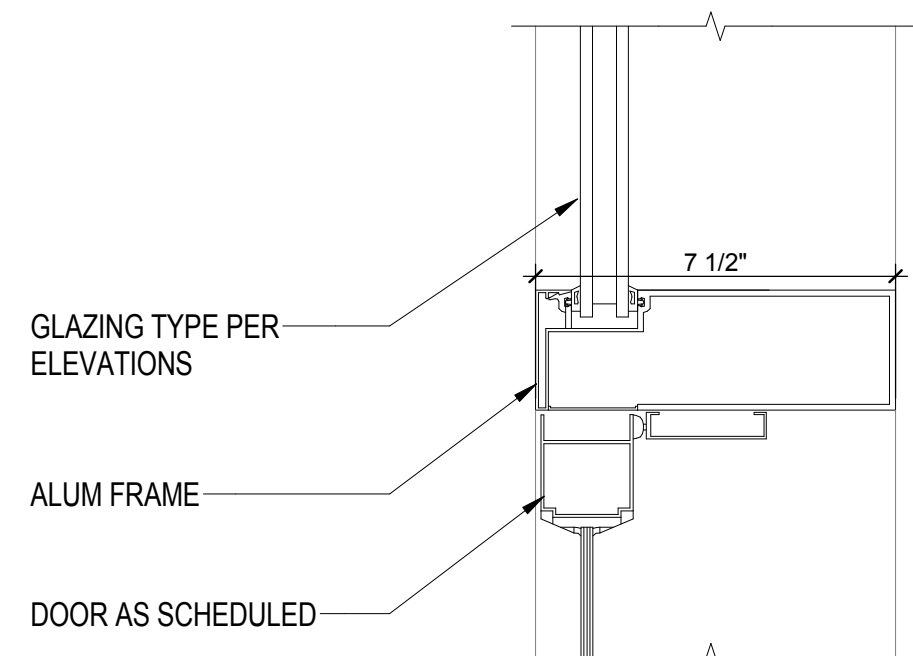


G7 TRANSLUCENT WALL SILL DETAIL @ MTL PANEL

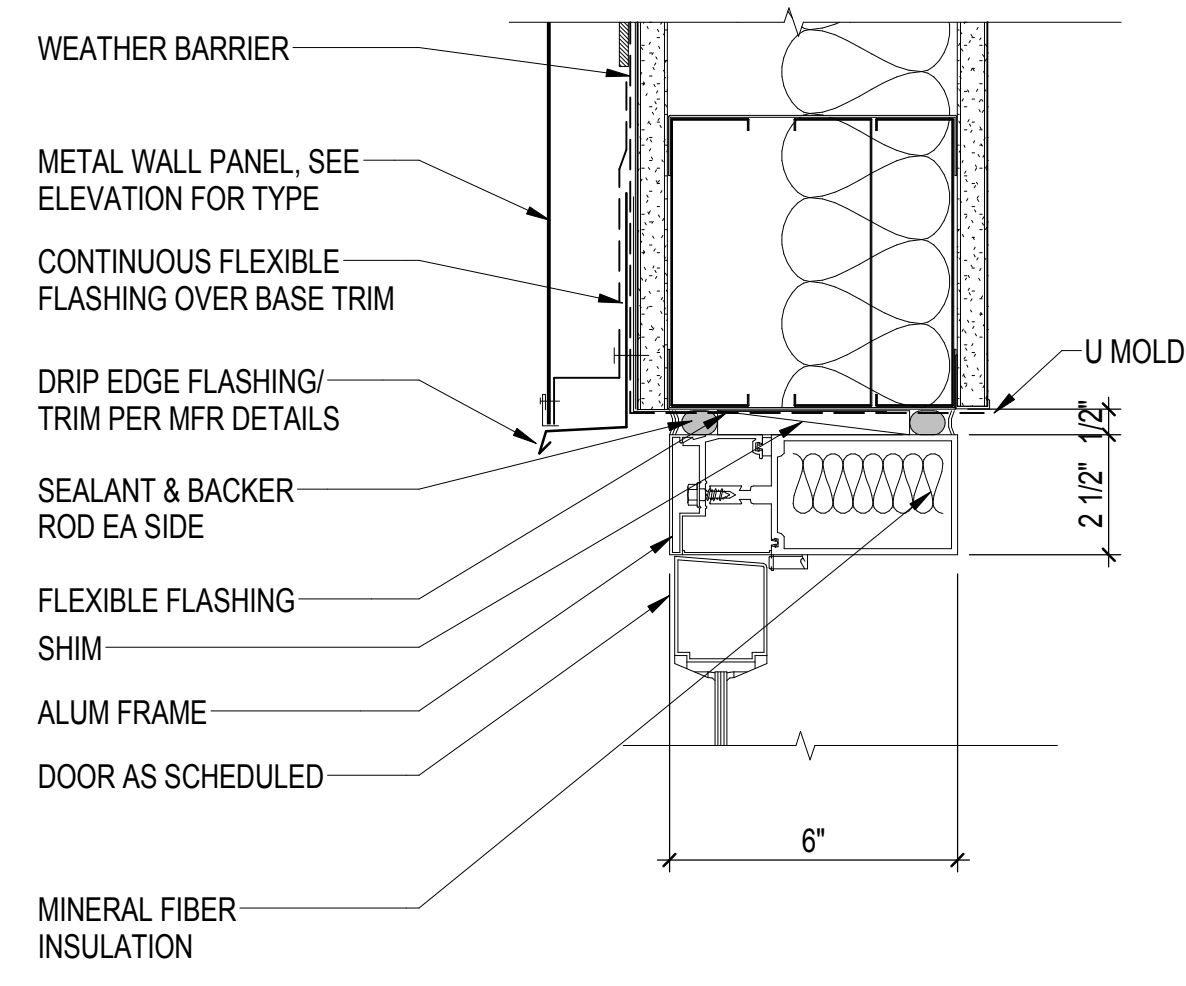
City of Madison
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA: 117,946 GROSS SF
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
ARCHITECTURE



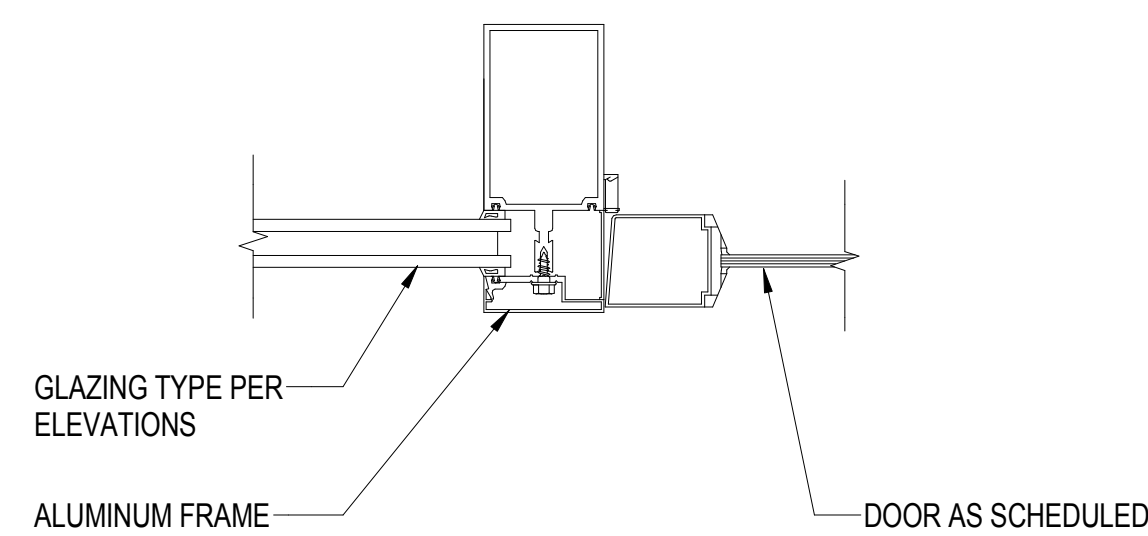
1600 WILSON BLVD.
SUITE 360
ARLINGTON, VA 22209
571.290.7679



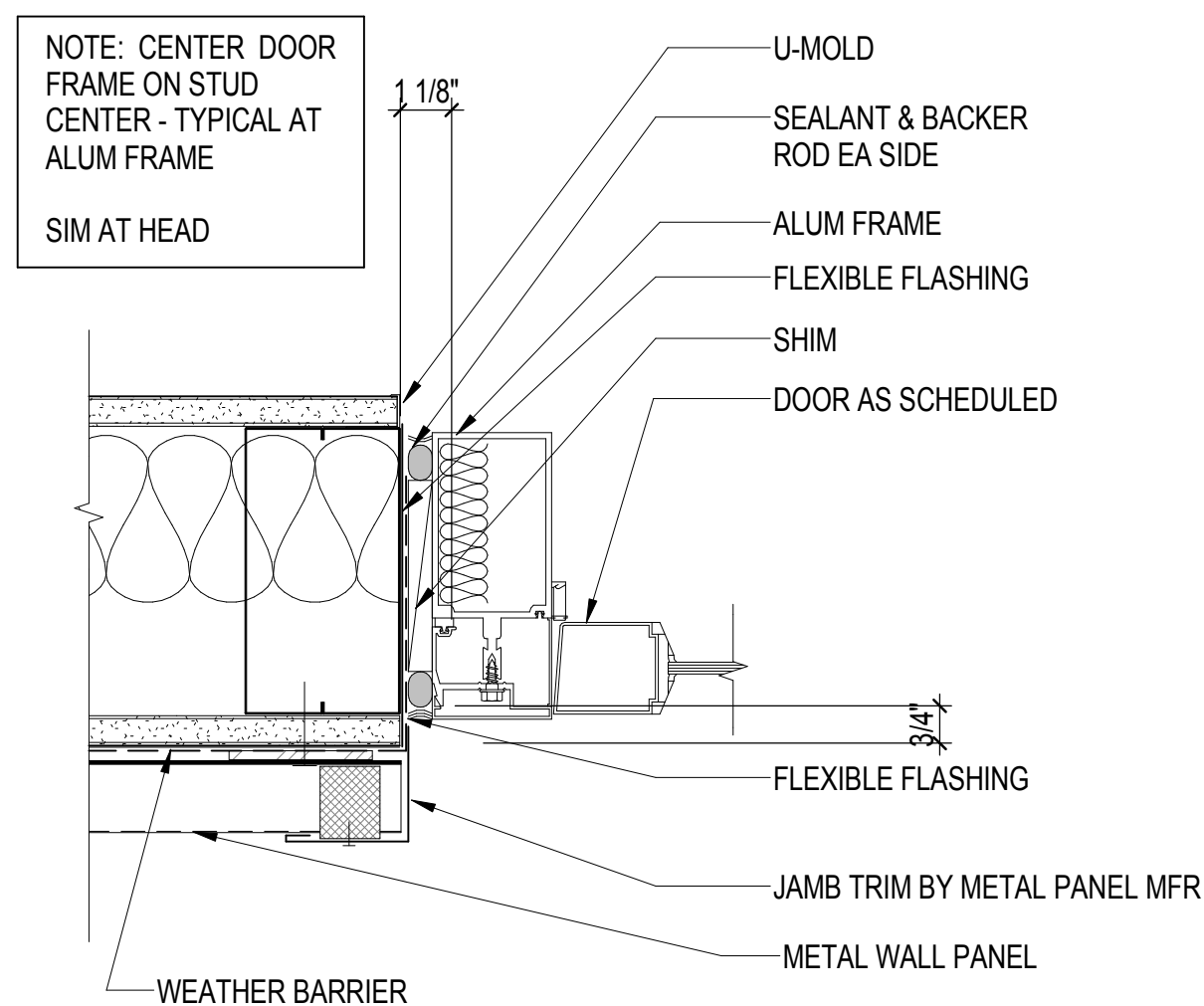
K1 ALUM FRAME HEAD
3" = 1'-0"



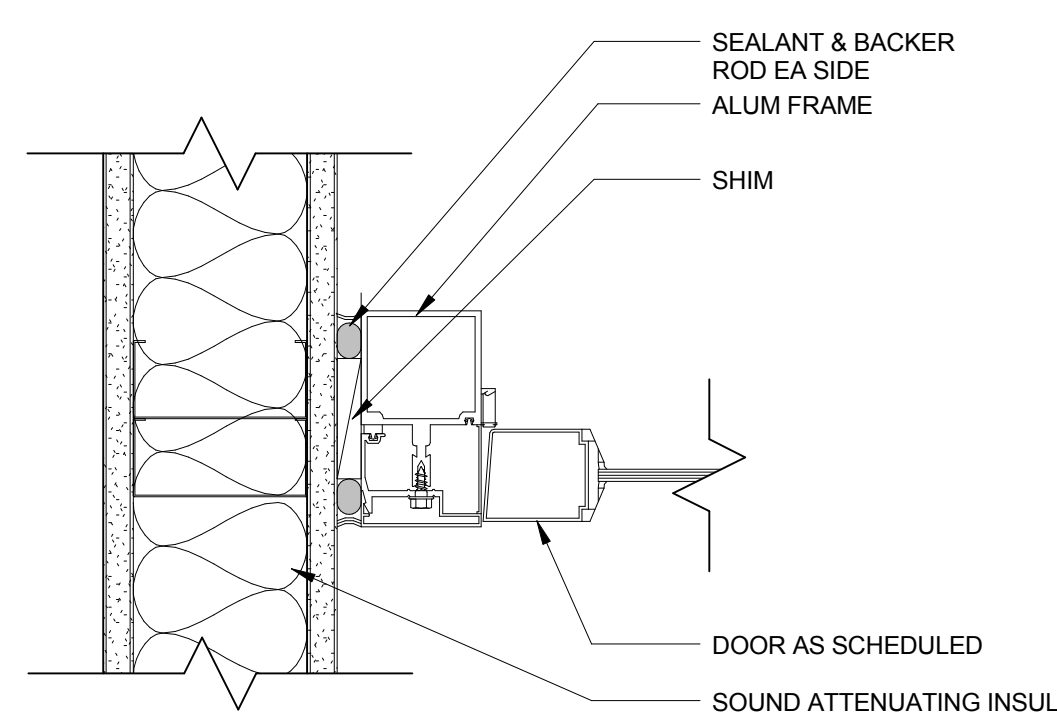
K4 ALUM FRAME HEAD @ MP
3" = 1'-0"



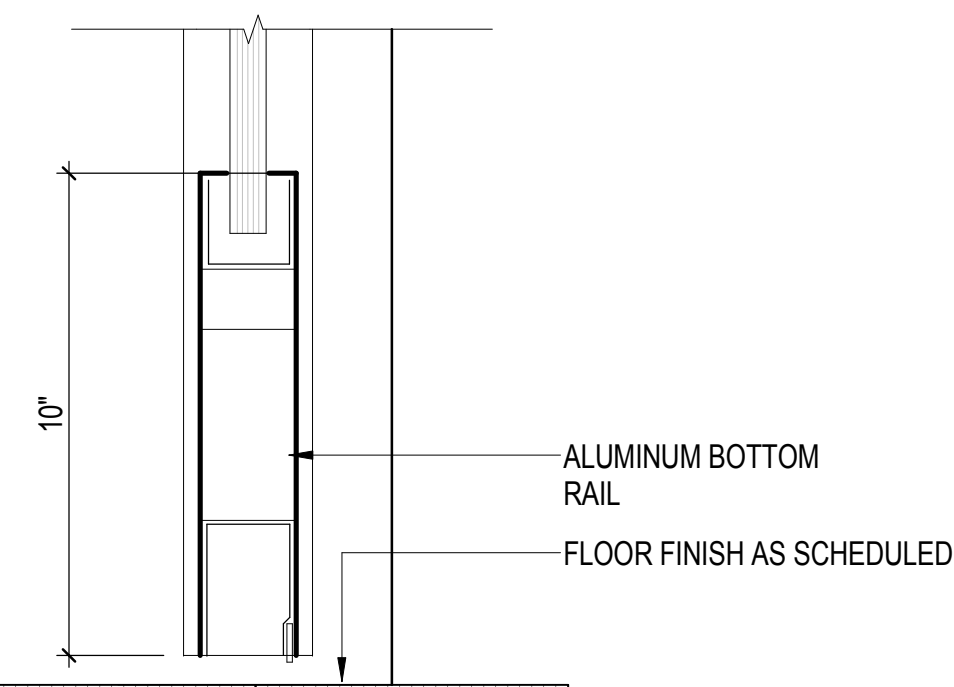
K8 ALUM FRAME JAMB
3" = 1'-0"



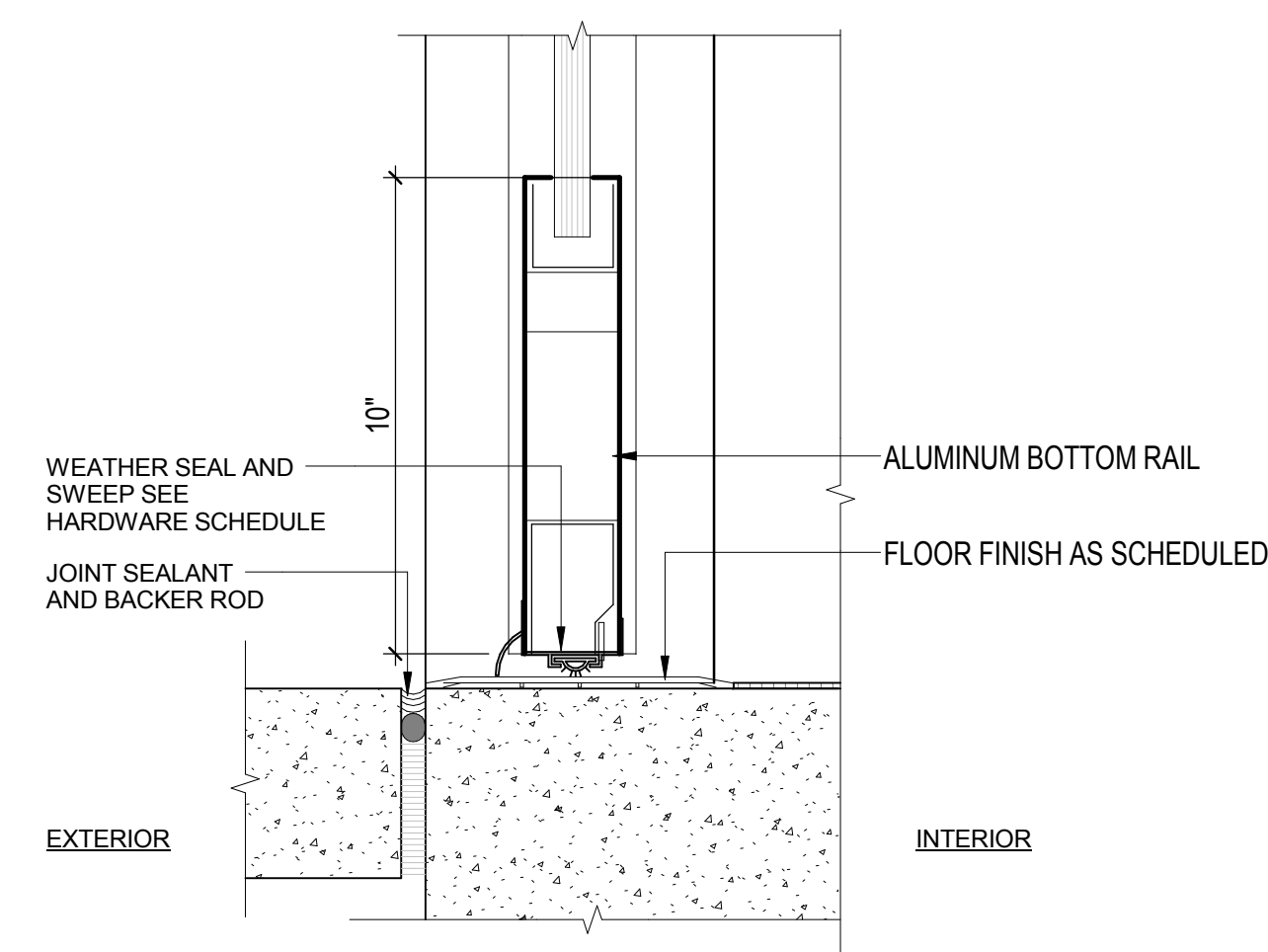
K13 ALUM FRAME JAMB @ MP
3" = 1'-0"



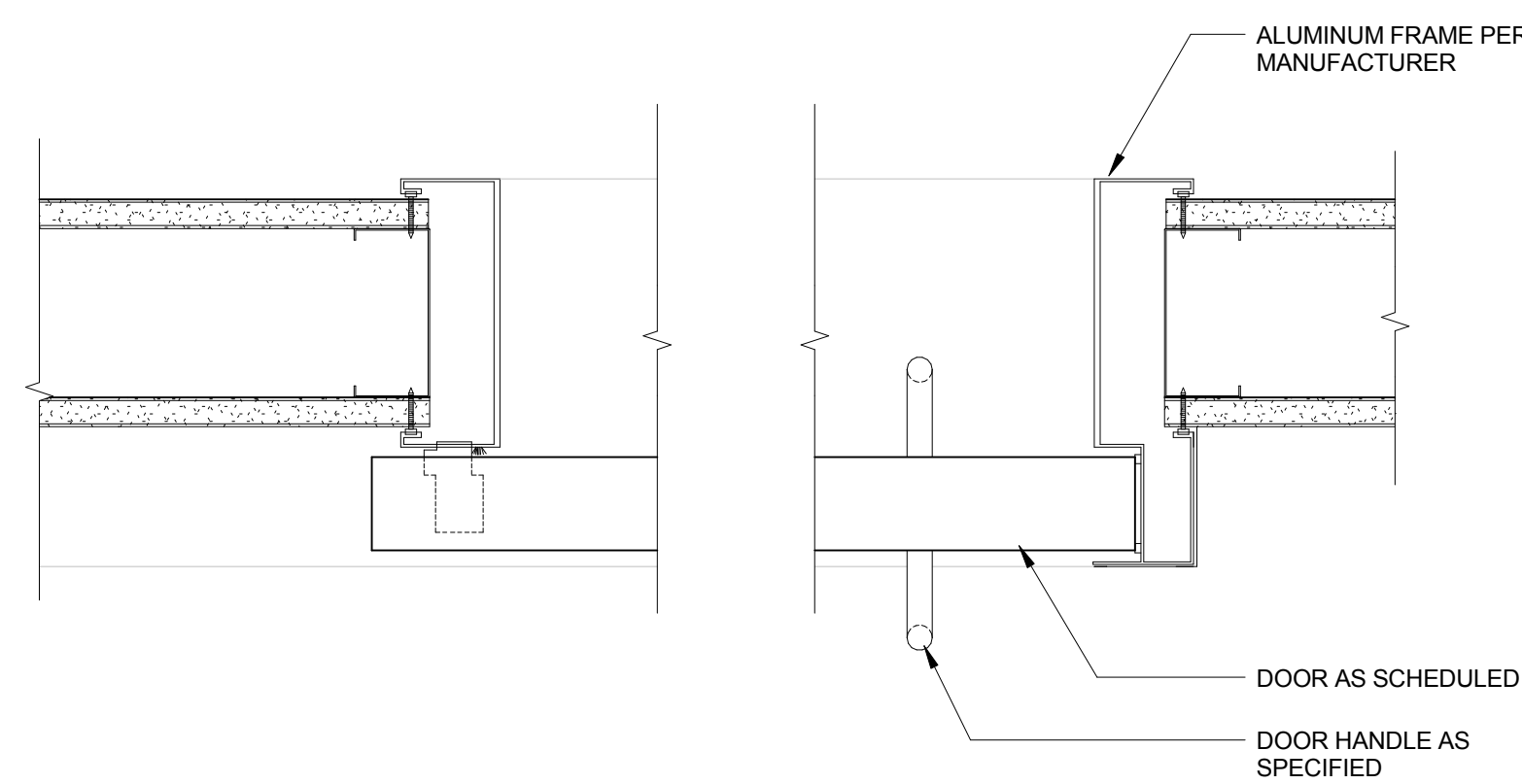
H1 ALUM FRAME JAMB AT GYP
3" = 1'-0"



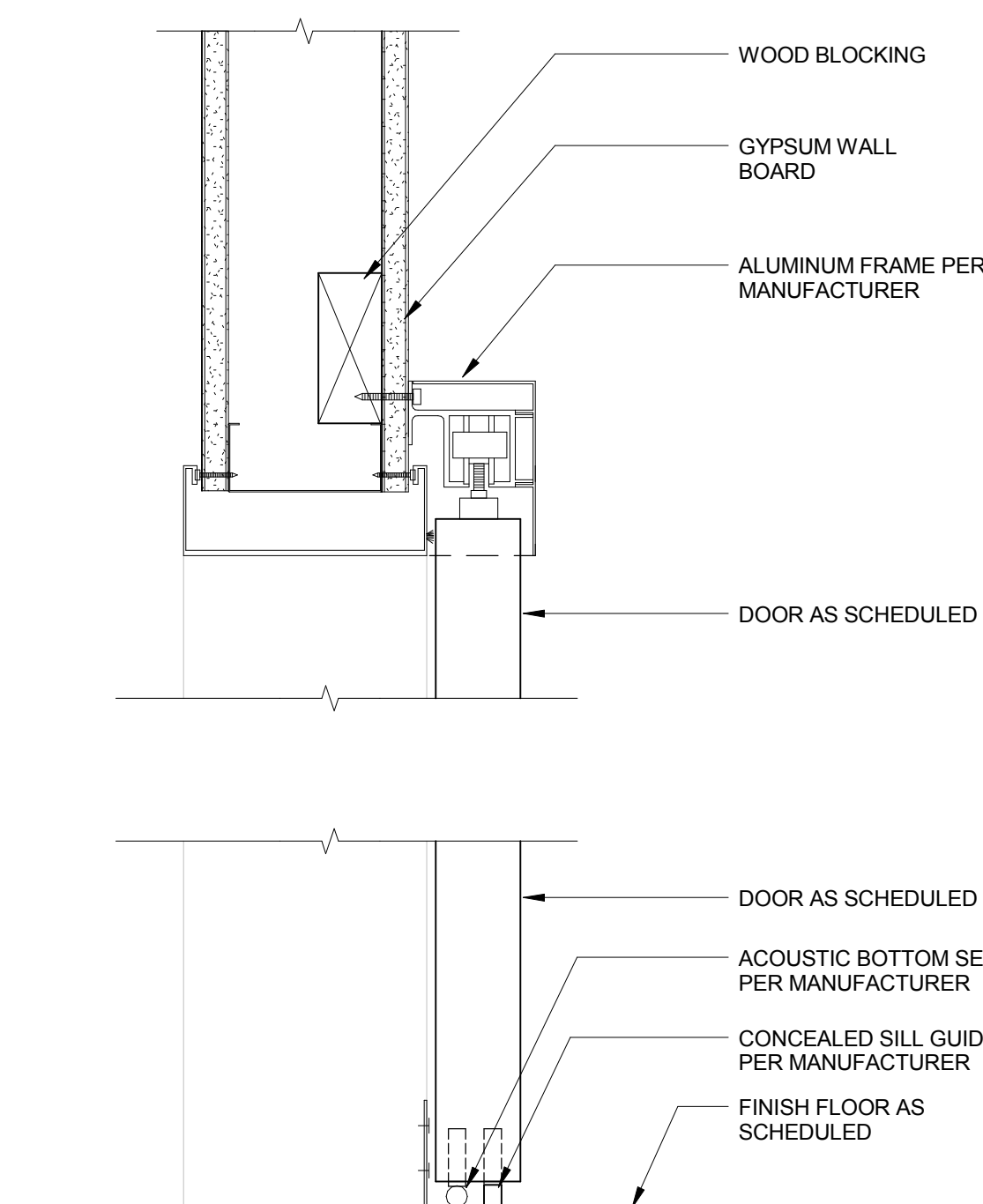
E1 ALUM FRAME SILL
3" = 1'-0"



E4 ALUM FRAME SILL @ CONCRETE
3" = 1'-0"



A9 SLIDING ALUM FRAME JAMB DETAIL
3" = 1'-0"



A14 SLIDING ALUM FRAME HEAD AND SILL DETAIL
3" = 1'-0"

CITY OF MADISON
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MADISON, WISCONSIN, 53714
ARCHITECTURE

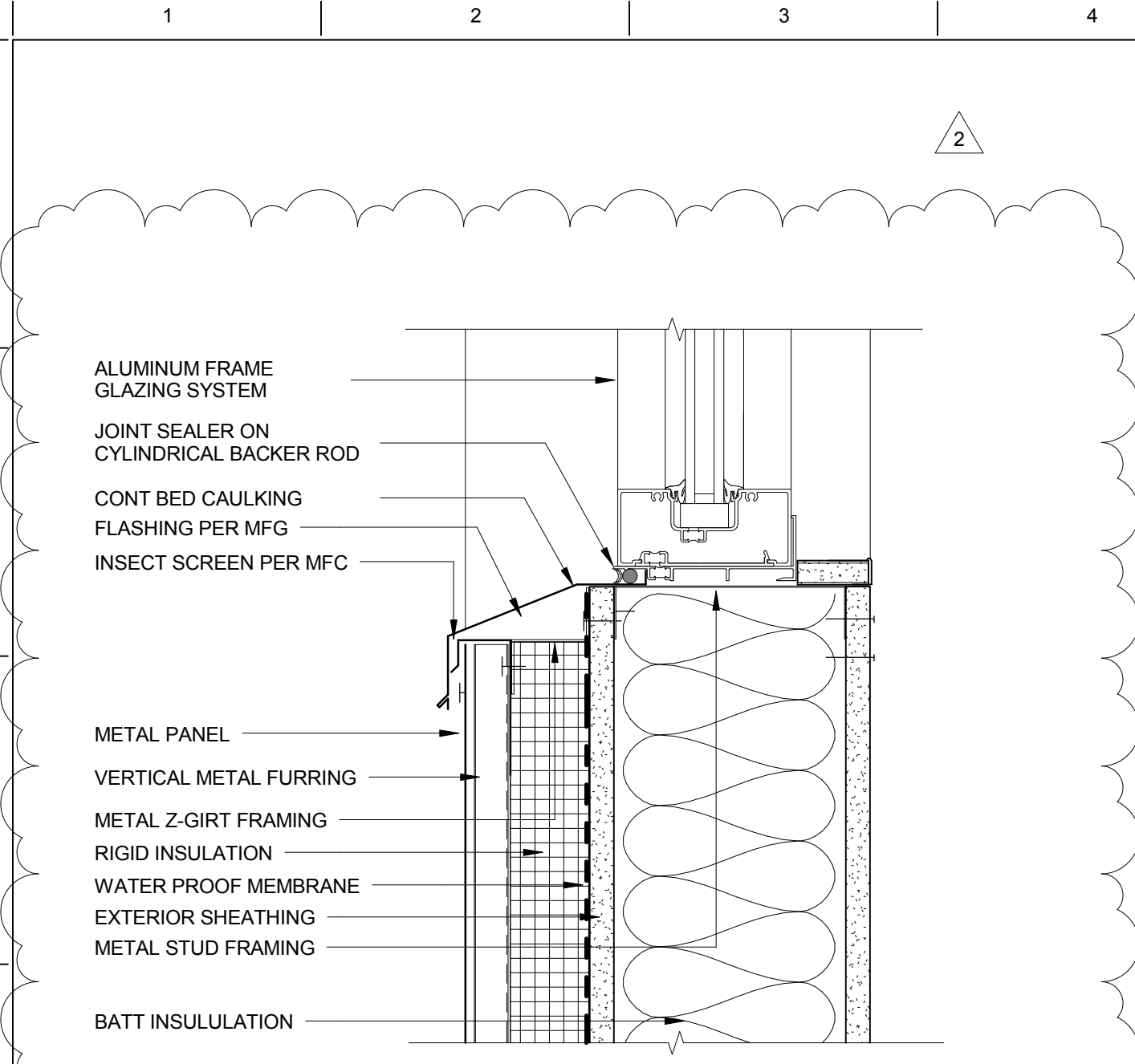


2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019
No.	REVISION/SUBMISSION	DATE
PROJECT No: 376603		

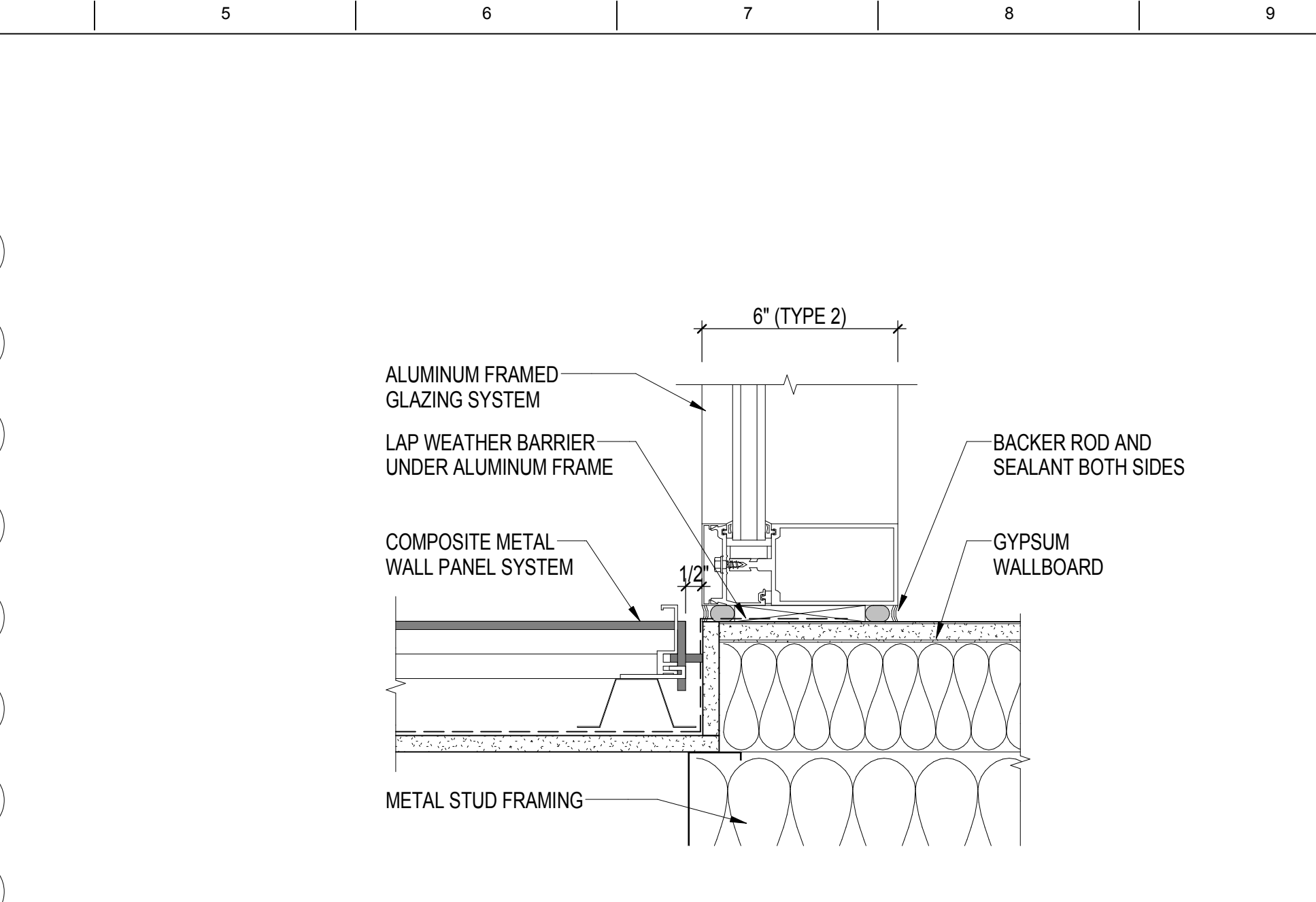
AF DOOR DETAILS

A-532

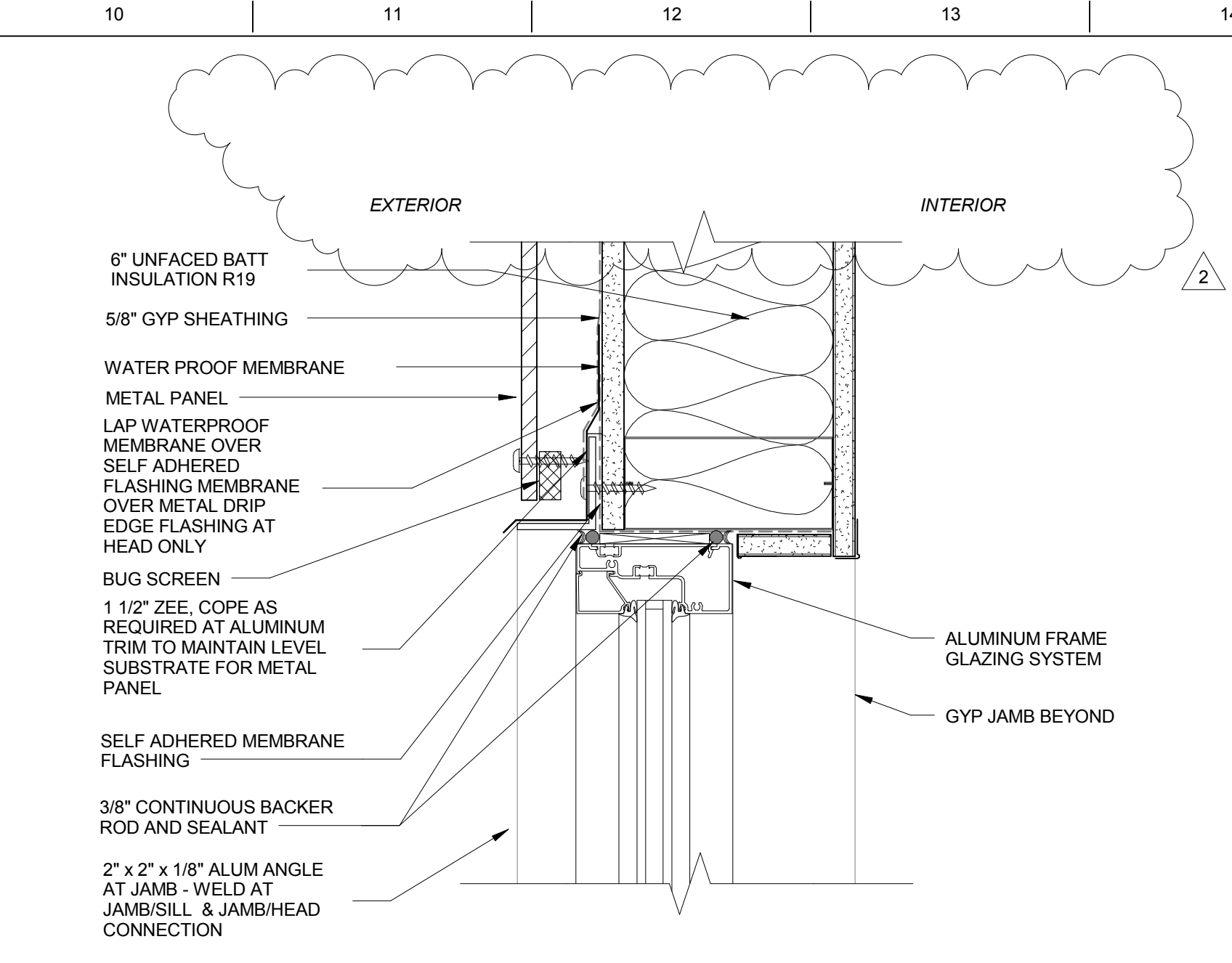
City of Madison
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA: 117,946 GROSS SF
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
ARCHITECTURE



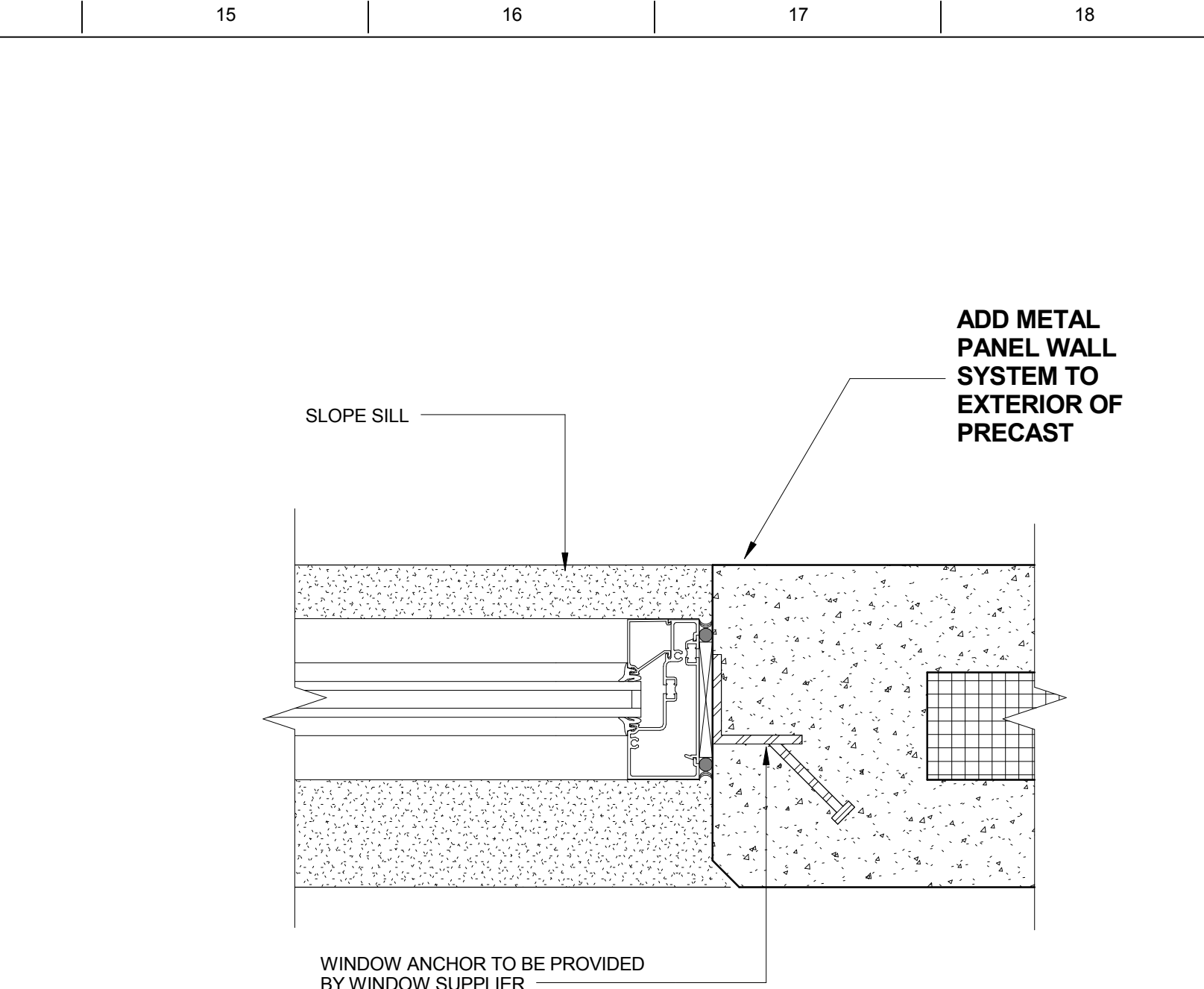
K1 AF SILL DETAIL AT MTL PANEL WALL
3" = 1'-0"



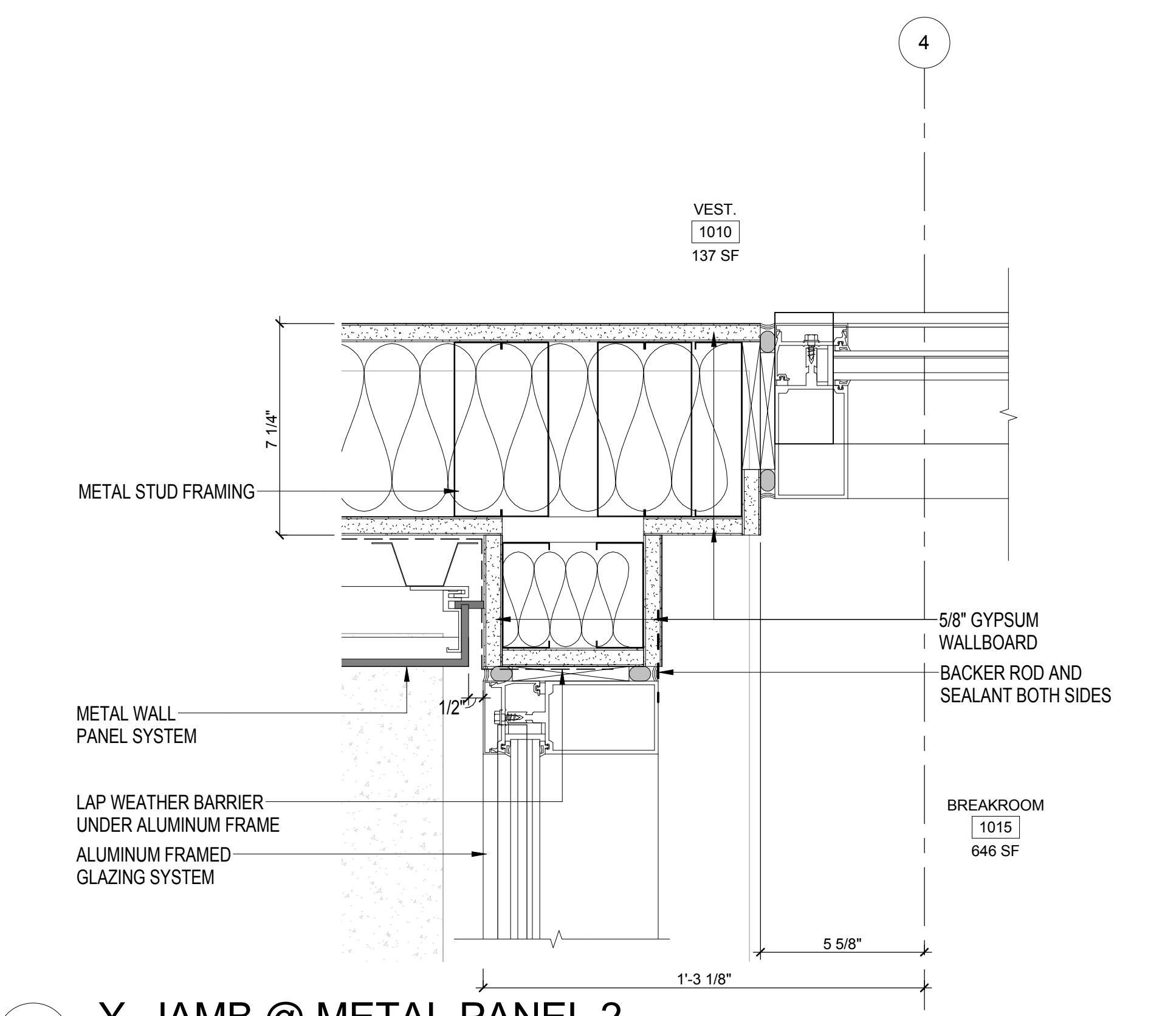
K5 Y_JAMB @ METAL PANEL
3" = 1'-0"



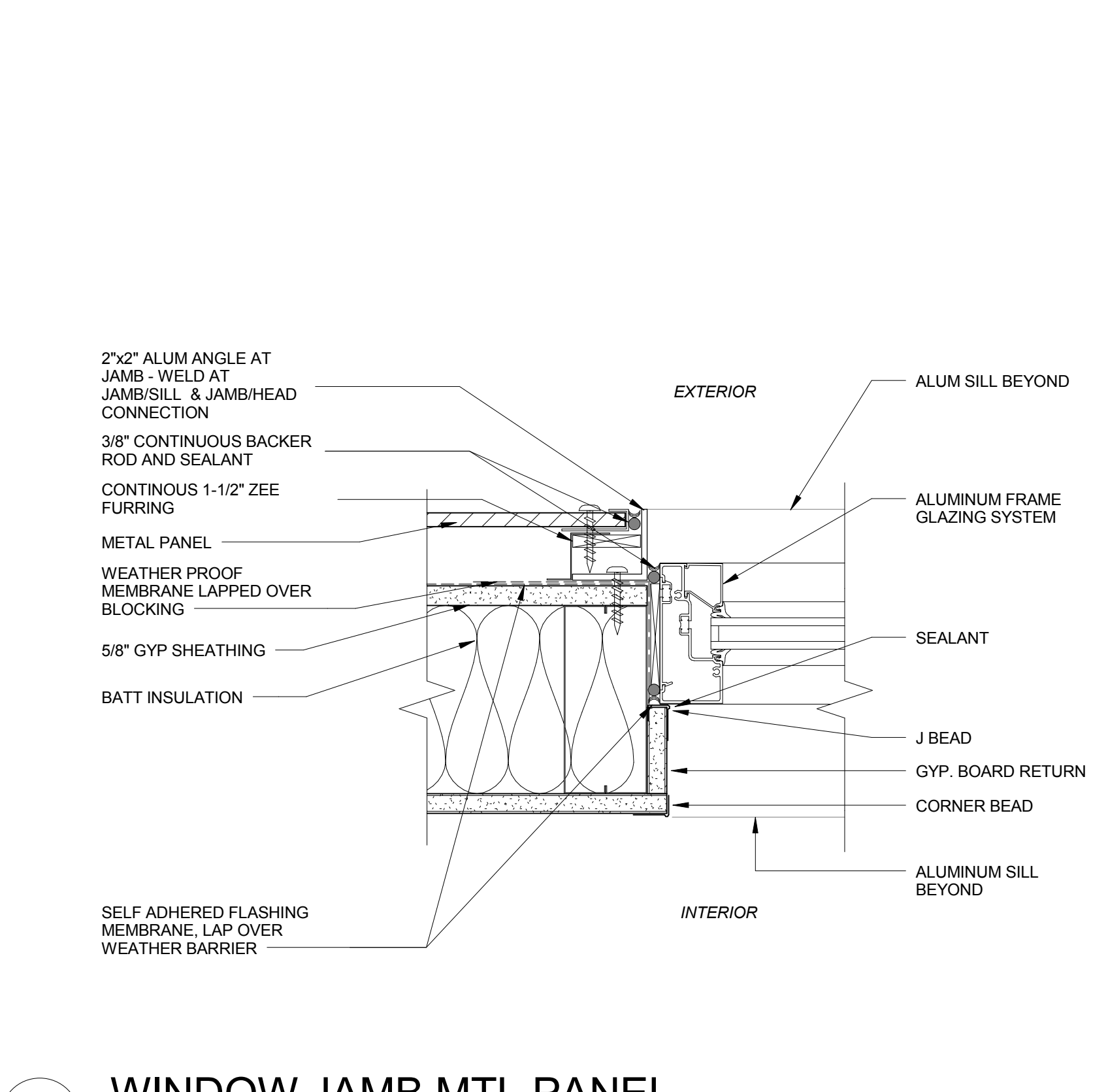
K10 STOREFRONT HEAD MTL PANEL
3" = 1'-0"



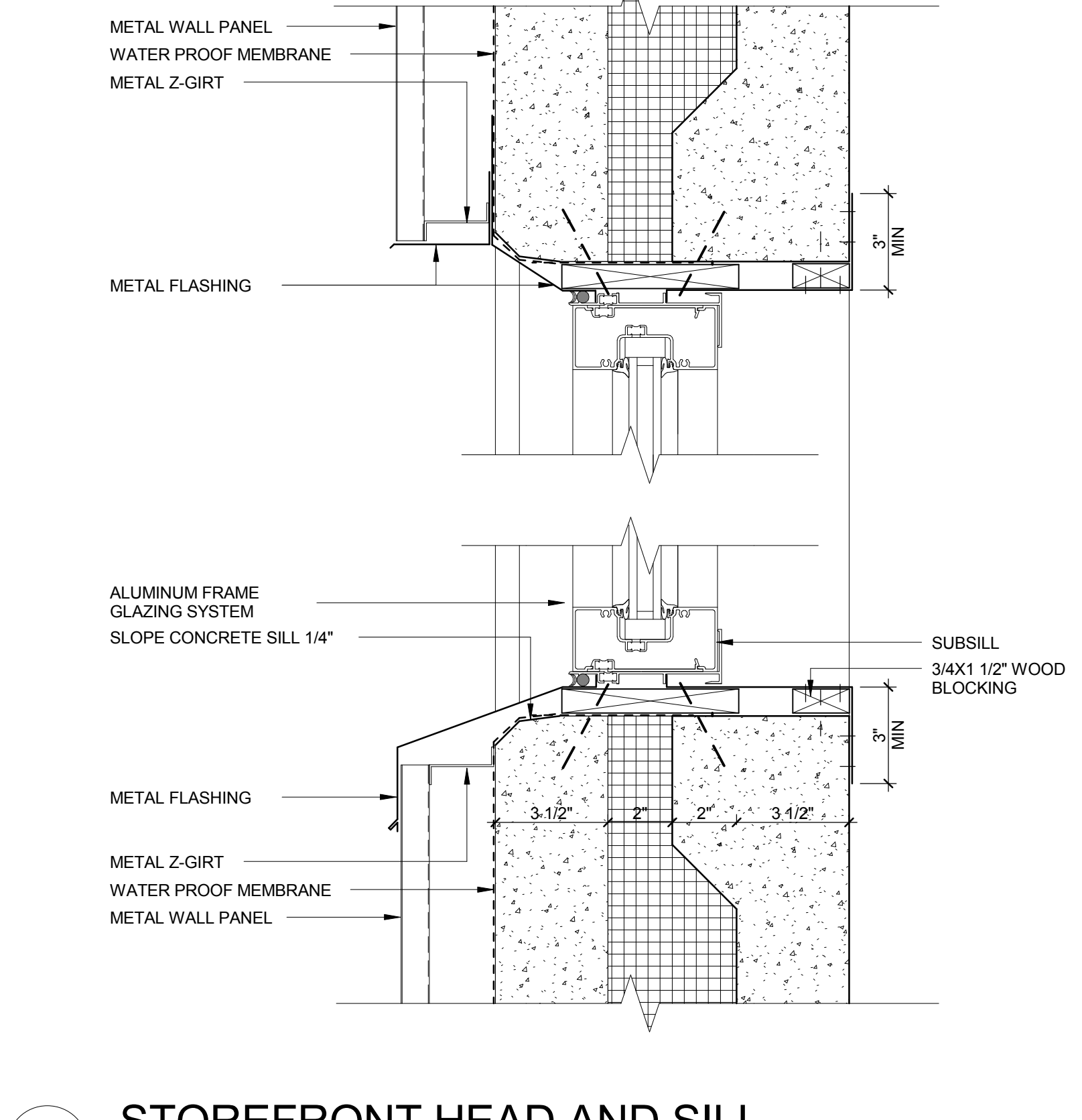
K14 STOREFRONT HEAD AND SILL
3" = 1'-0"



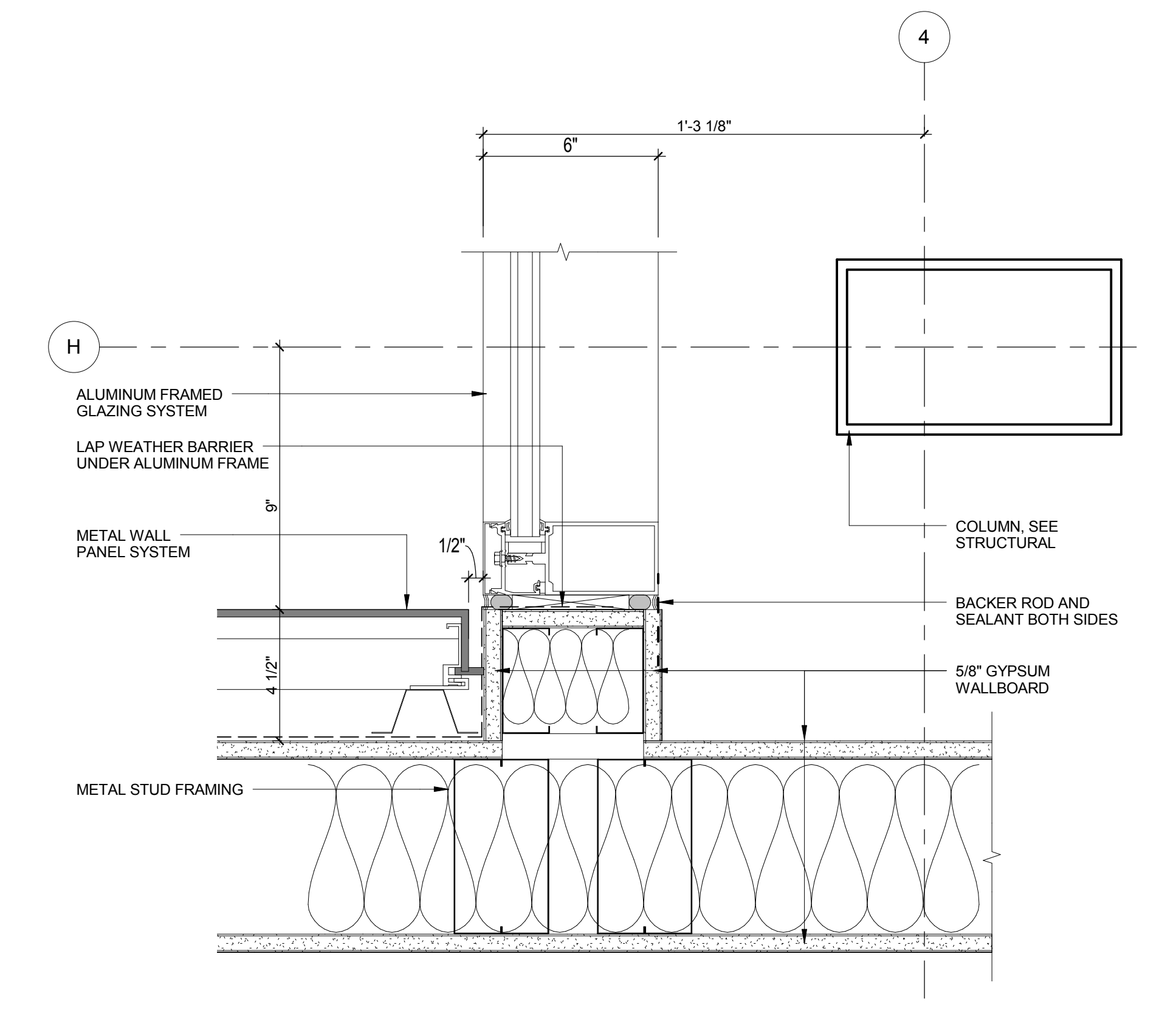
F5 Y_JAMB @ METAL PANEL 2
3" = 1'-0"



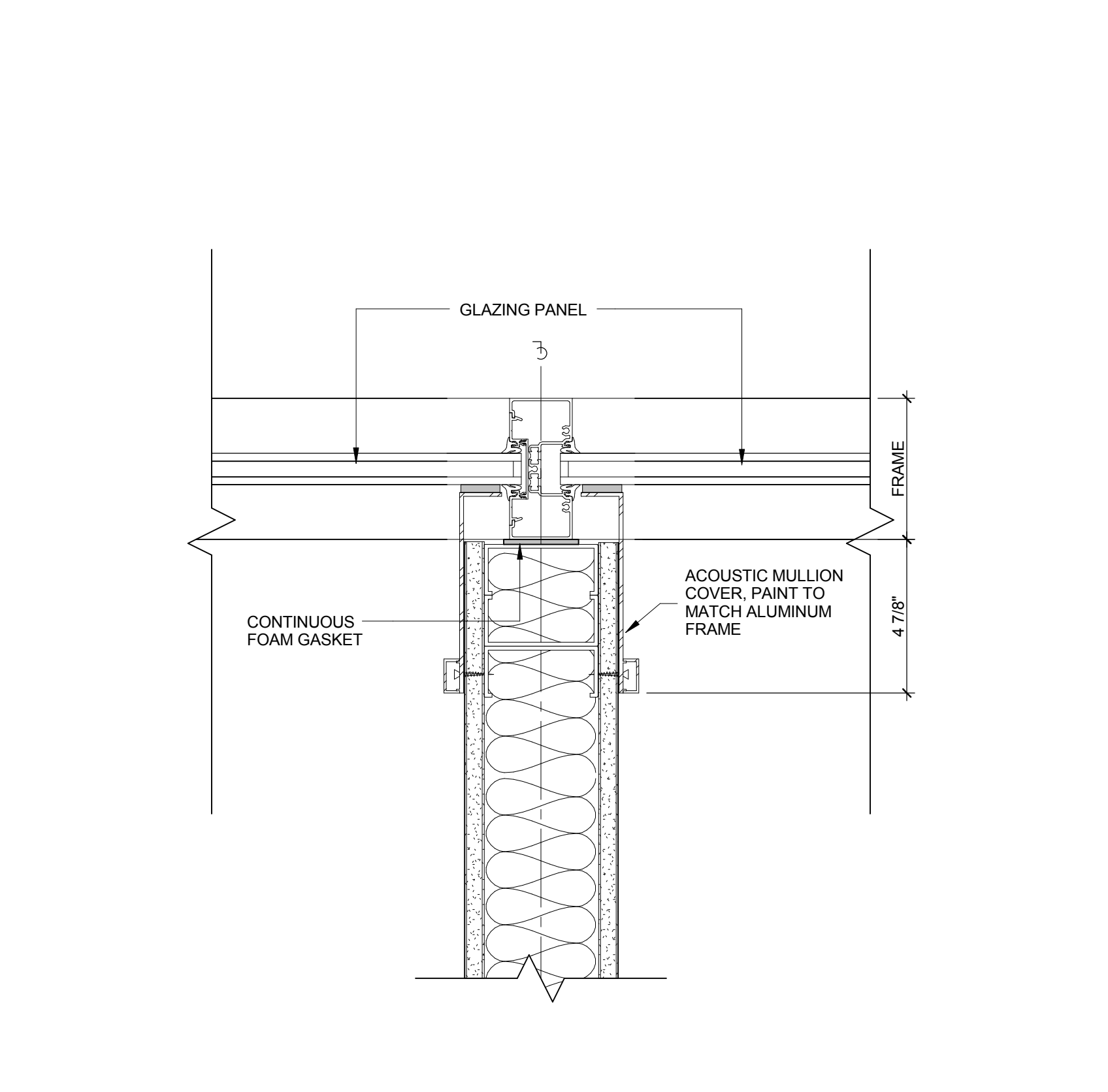
F10 WINDOW JAMB MTL PANEL
3" = 1'-0"



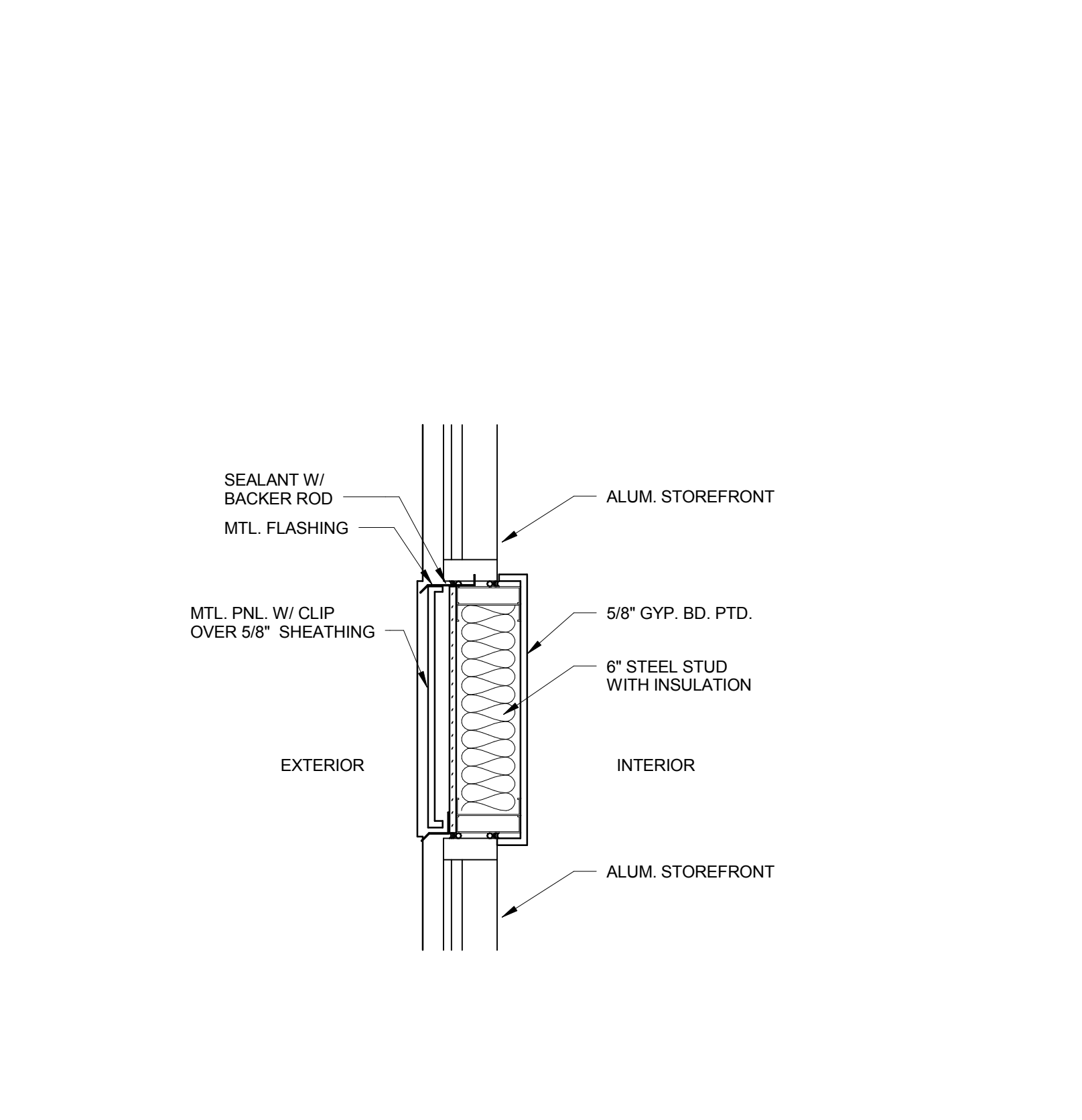
F14 STOREFRONT HEAD AND SILL
3" = 1'-0"



A4 Y_JAMB @ METAL PANEL
3" = 1'-0"



A10 MULLION JAMB @ PARTITION
3" = 1'-0"



A14 Y_HM FRAME JAMB @ CMU/GYP
1" = 1'-0"



1600 WILSON BLVD.
SUITE 360
ARLINGTON, VA 22209
571.290.7679

CITY OF MADISON
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FACILITY
AREA: 117,946 GROSS SF
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
ARCHITECTURE

No.	REVISION/SUBMISSION	DATE
2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019

PROJECT No: 376603

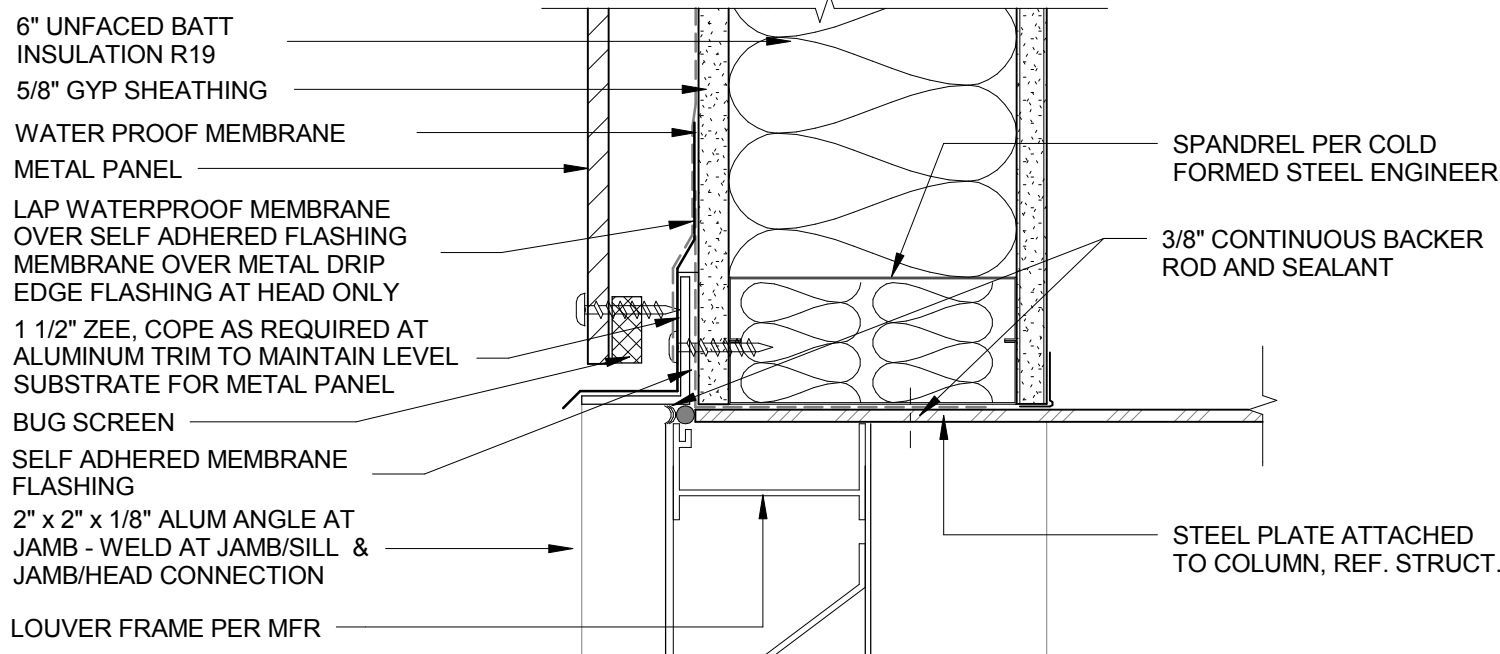
EXTERIOR AF WINDOW DETAILS

A-541

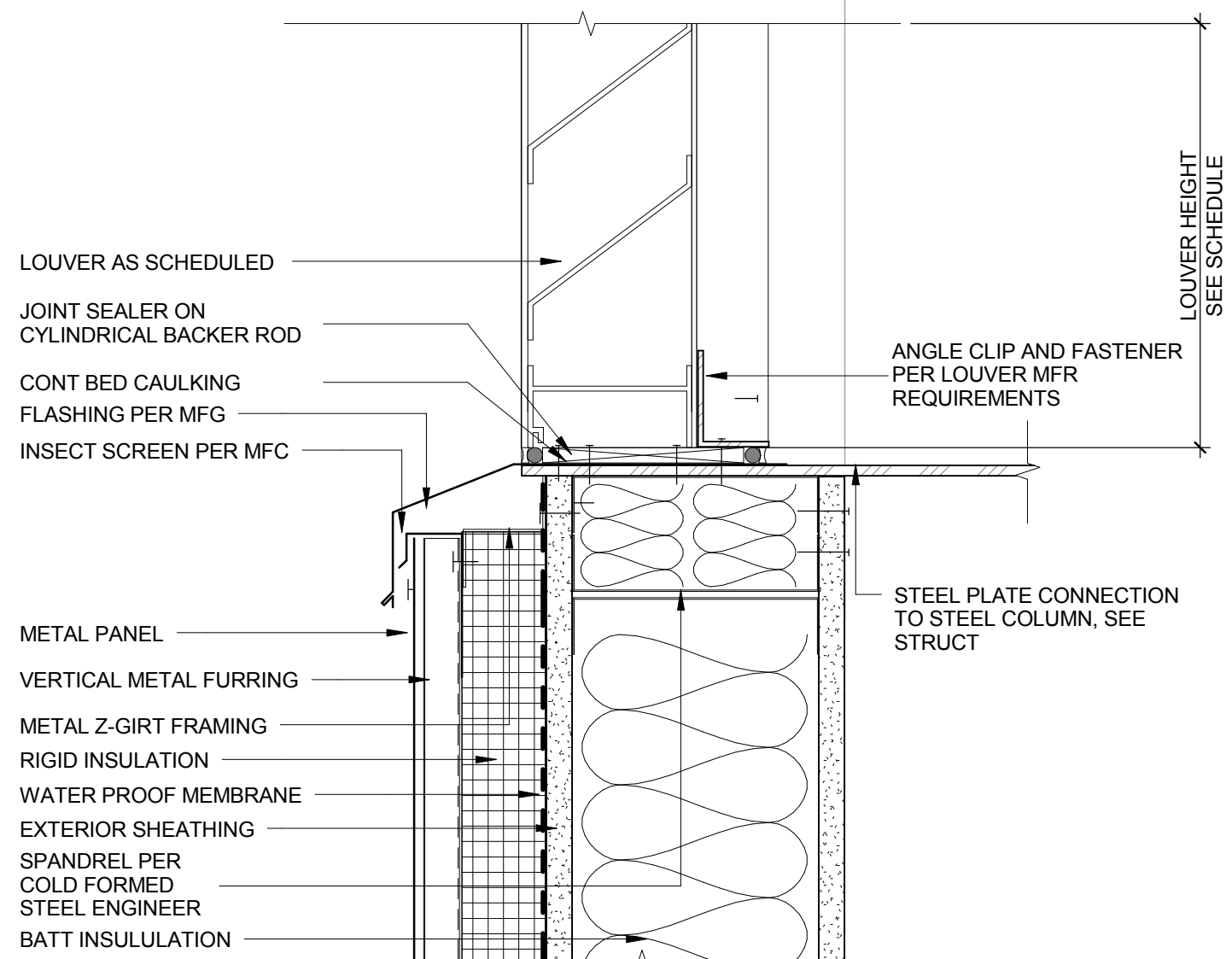
City of Madison
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA: 117,946 GROSS SF
4151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
ARCHITECTURE

DOOR AND FRAME SCHEDULE																		Notes	
NO	HW SET	SIZE			DOOR				FRAME				DETAILS			FIRE RATING	Notes		
		W	H	T	TYPE	MATL	FINISH	GLASS	TYPE	MATL	FINISH	GLASS	HEAD	JAMB	SILL				
1001A	001	6'-4"	7'-10"			ALUM	PREFINISH			ALUM	PREFINISH		K1A-532	H1A-532	E1A-532	9			
1001B	002	3'-2"	7'-10"	1 3/4"	FG	ALUM	PREFINISH	--	MFC	ALUM	PREFINISH		K4A-532	K8A-532	E4A-532				
1001E	004	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		G4A-531	K14A-531	G4A-531				
1002	006	6'-0"	7'-2"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		K1A-532	H1A-532		9			
1003	003	3'-0"	7'-0"	1 3/4"	G	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1004	003	3'-0"	7'-0"	1 3/4"	G	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1005	003	3'-0"	7'-0"	1 3/4"	G	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1007	003	3'-0"	7'-0"	1 3/4"	G	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1008	003	3'-0"	7'-0"	1 3/4"	G	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1009	007	3'-0"	7'-0"	1 3/4"	FG	HM	PAINT	GL-02T	F1	HM	PAINT		K1A-531	K4A-531					
1010	008	3'-0"	7'-10"	1 3/4"	FG	ALUM	PREFINISH	--	MFC	ALUM	PREFINISH		K4A-532	K8A-532	E4A-532	AUTOMATIC			
1011	009	3'-0"	7'-10"	1 3/4"	FG	ALUM	PREFINISH	--	MFC	ALUM	PREFINISH		K4A-532	K8A-532		AUTOMATIC			
1012	010	3'-0"	7'-0"	1 3/4"	FG	HM	PAINT	GL-02T	F2	HM	PAINT		K1A-531 SIM	G4A-531 SIM					
1013	011	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		G4A-531	K14A-531					
1014	Y12	3'-0"	7'-0"	1 3/4"	N	HM	PAINT	GL-02T	F1	HM	PAINT		K1A-531	K4A-531					
1015A	MFC	6'-0"	8'-0"	1 3/4"	GLASS	ALUM	PAINT	GL-03T	MFC	ALUM	PREFINISH		A14A532	A9A532	A14A532	FRITTED FILM APPLIED TO GLASS			
1015B	013	3'-0"	7'-10"	1 3/4"	FG	ALUM	PREFINISH	--	MFC	ALUM	PREFINISH		K4A-532	K8A-532					
1015C	014	3'-0"	7'-0"	1 3/4"	N	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1017	010	3'-0"	7'-0"	1 3/4"	N	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1018	015	3'-0"	7'-0"	1 3/4"	F	HM	PAINT	--	F1	HM	PAINT		K1A-531	K4A-531		9			
1019	015	3'-0"	7'-0"	1 3/4"	F	HM	PAINT	--	F1	HM	PAINT		K1A-531	K4A-531		9			
1020	015	3'-0"	7'-0"	1 3/4"	F	HM	PAINT	--	F1	HM	PAINT		K1A-531	K4A-531		9			
1021	016	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1023	017	3'-0"	7'-0"	1 3/4"	FG	HM	PAINT	GL-02T	F1	HM	PAINT		K1A-531	K4A-531					
1025A	018	6'-0"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		G16A-531	G14A-531					
1025B	019	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F5	HM	PAINT		G4A-531	K14A-531	G4A-531	AUTOMATIC			
1025C	020	14'-0"	14'-0"	2"	OH	STL	PREFINISH	--	STL	PREFINISH	--	K1A-533	K11A-533	G6A-533					
1026B	021	3'-0"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		D4A-531	D4A-531					
1026C	021	6'-0"	7'-0"	1 3/4"	F	HM	PAINT		F6	HM	PAINT		G4A-531	K14A-531	G4A-531				
1027	022	3'-8"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		D1A-531	D4A-531					
1028	023	3'-6"	7'-10"	1 3/4"	FG	ALUM	PREFINISH	--	MFC	ALUM	PREFINISH		K4A-532	K8A-532					
1029	008	3'-6"	7'-10"	1 3/4"	FG	ALUM	PREFINISH	--	MFC	ALUM	PREFINISH		K4A-532	K8A-532					
1030A	024	6'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1030B	024	6'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1031	016	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531		9			
1032	025	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1037	026	3'-0"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		D1A-531	D4A-531					
1038A	027	3'-0"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		D1A-531	D4A-531					
1041A	028	3'-0"	7'-0"	1 3/4"	N	HM	PAINT	GL-02T	F2	HM	PAINT		D1A-531	D4A-531					
1041B	027	3'-0"	7'-0"	1 3/4"	N	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1042A	028	3'-0"	7'-2"	1 3/4"	FG	HM	PAINT		F1	HM	PAINT		K1A-531	K4A-531					
1043A	029	3'-0"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		G16A-531	G14A-531					
1043B	022	3'-0"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		D1A-531	D4A-531					
1043C	030	3'-0"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		D1A-531	D4A-531					
1043D	031	3'-0"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		G16A-531	G14A-531	G4A-531	90 MIN			
1054A	032	3'-0"	8'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		G4A-531	K14A-531	G4A-531				
1054B	033	6'-0"	7'-0"	1 3/4"	F	HM	PAINT		F2	HM	PAINT		D1A-531	D4A-531					
1055A	034	3'-8"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		D1A-531	D4A-531					
1055B	035	6'-0"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		D1A-531	D4A-531					
1055C	005	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		G4A-531	K14A-531	G4A-531				
1055D	020	14'-0"	14'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1055E	020	14'-0"	14'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1056	036	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F2	HM	PAINT		D1A-531	D4A-531		90 MIN			
1057	005	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		G4A-531	K14A-531	G4A-531				
1058A	037	3'-0"	7'-0"	1 3/4"	N	HM	PAINT		F1	HM	PAINT		D1A-531	D4A-531					
1058B	020	14'-0"	14'-0"	2"	OH	ALUM	PREFINISH		STL	PREFINISH		K6A-533		G6A-533					
1058C	005	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		G4A-531	K14A-531	G4A-531				
1058D	020	14'-0"	14'-0"	2"	OH	ALUM	PREFINISH		F2	HM	PAINT		K1A-533	K11A-533	G6A-533				
1066B	038	6'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		D1A-531	D4A-531		90 MIN			
1077	020	16'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1078	020	14'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1079	020	14'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1080	020	14'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1081	020	14'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1082	020	14'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1083	020	16'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1084A	005	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		G4A-531	K14A-531	G4A-531				
1084B	004	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		G4A-531	K14A-531	G4A-531				
1084C	005	3'-0"	7'-0"	1 3/4"	F	HM	PAINT		F1	HM	PAINT		G4A-531	K14A-531	G4A-531				
1084D	039	6'-0"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		D1A-531	D4A-531		AUTOMATIC			
1084E	040	3'-8"	7'-0"	1 3/4"	N	HM	PAINT		F2	HM	PAINT		D1A-531	D4A-531					
1085	041	3'-2 1/4"	7'-0"	2"	G02	HM	WWM	--	FABRICATED	HM	PT-2	--	F10A-534	A14A-534	D1A-534				
1087	020	16'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1088	020	14'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1089	020	14'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1090	020	14'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1091	020	14'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A-533	G6A-533					
1092	020	14'-0"	16'-0"	2"	OH	STL	PREFINISH		STL	PREFINISH		K1A-533	K11A						

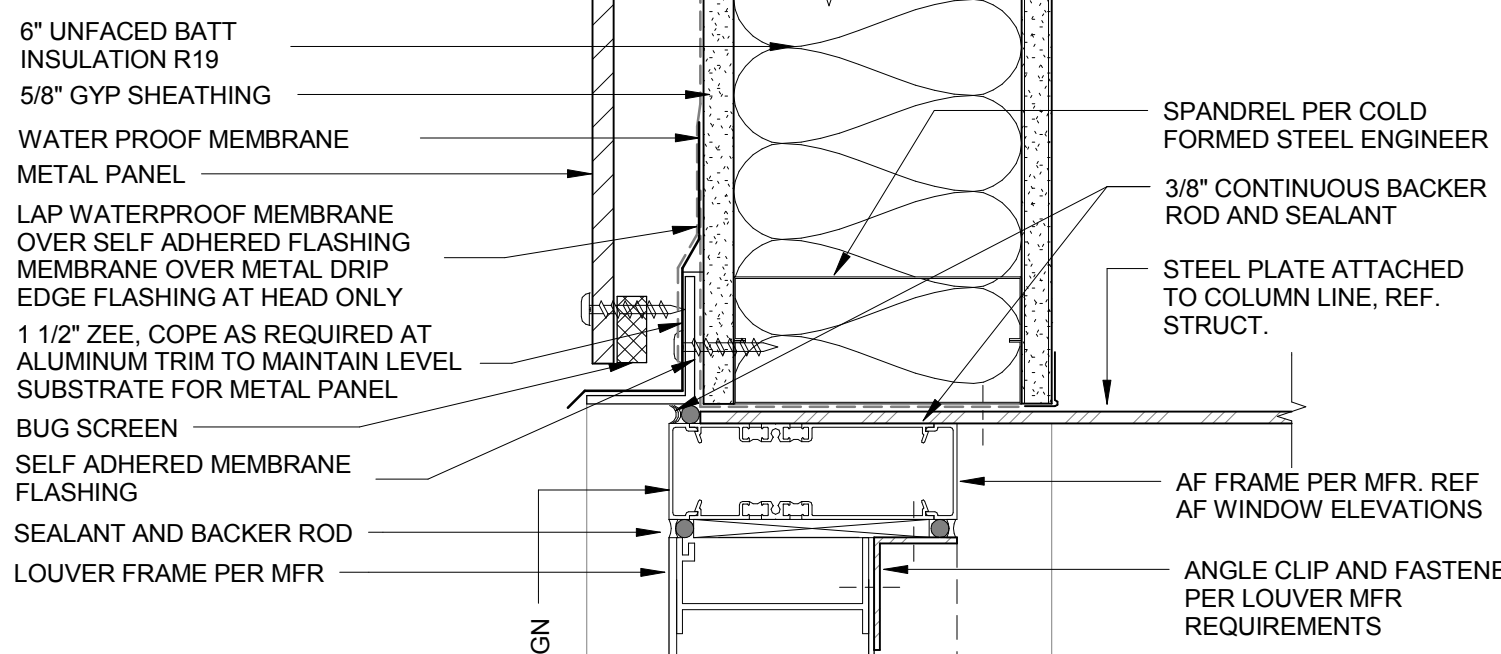
LOUVER SCHEDULE					
Mark	No.	Type Mark	Type	Size	
WL-2	2	MAU-B1 EA	EA MAU-B1	84" W x 108" H	
WL-3	3	MAU-C1 OA	OA MAU-C1	108" W x 96" H	
WL-4	4	MAU-B2 EA	EA MAU-B2	84" W x 108" H	
WL-5	5	MAU-C2 EA	EA MAU-C2	108" W x 96" H	
WL-6	6	CNG HVM	CNG EF HVM	78" W x 96" H	
WL-7	7	MAU-C2 OA	OA MAU-C2	108" W x 96" H	
WL-8	8	MAU-D1 EA	EA MAU-D1	133" W x 96" H	
WL-9	9	MAU-D1 OA	OA MAU-D1	96" W x 96" H	
WL-11	11	CNG RADIO INSTALL	CNG EF Radio Install	110" W x 72" H	
WL-12	12	MAU-E1-1 EA	EA MAU-E1-1	165" W x 72" H	
WL-13	13	MAU-E1-2 EA	EA MAU-E1-2	168" W x 72" H	
WL-14	14	CNG RADIO SERVICE	CNG EF Radio Service	109" W x 72" H	
WL-15	15	MAU-C1 EA	EA MAU-C1	108" W x 125" H	
WL-16	16	MAU-B1 OA	OA MAU-B1	132" W x 115" H	
WL-17	17	VE-LVM	VE-LVM	48" W x 36" H	
WL-18	18	VE-HVM-S	VE-HVM-S	54" W x 36" H	
WL-19	19	VE-HVM-N	VE-HVM-N	54" W x 36" H	
WL-21	21	MAU-B2 OA	OA MAU-B2	216" W x 34" H	
WL-24	24	EA LUBE	EA LUBE	72" W x 32" H	
WL-25	25	EA PARTS	EA PARTS	36" W x 32" H	
WL-26	26	OA PAINT	OA Paint Booth	168" W x 54" H	
WL-30	30	AHU-A2 OA	OA AHU-A2	66" W x 36" H	
WL-31	31	AHU-A1 OA	OA AHU-A1	90" W x 72" H	
WL-32	32	MAU-E1_AHU-E1 OA	OA MAU-E1_AHU-E1	417" W x 72" H	
WL-33	33	AHU-A1 EA_RA	EA_RA AHU-A1	60" W x 72" H	



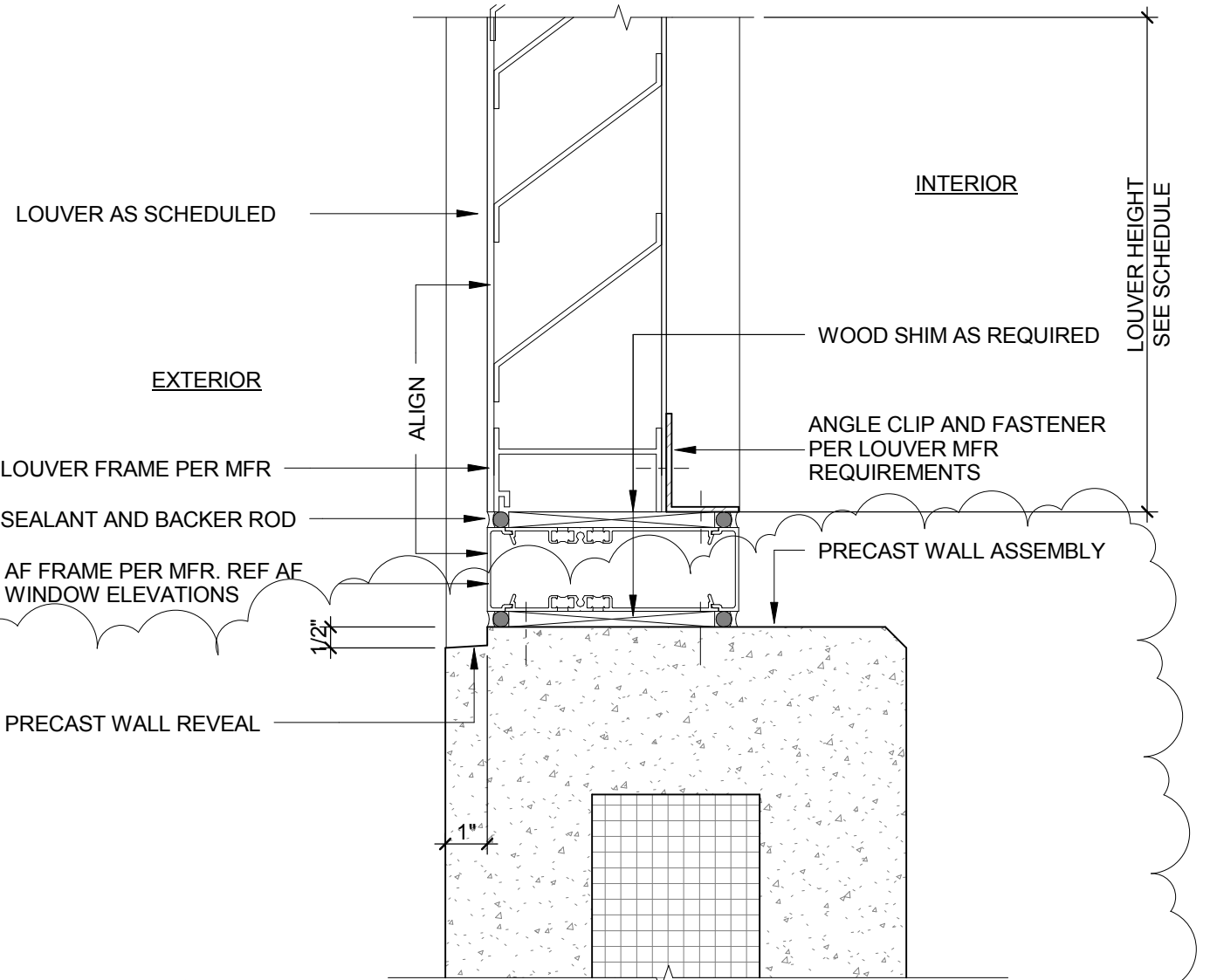
K5 LOUVER HEAD AT MTL PANEL WALL
3" = 1'-0"



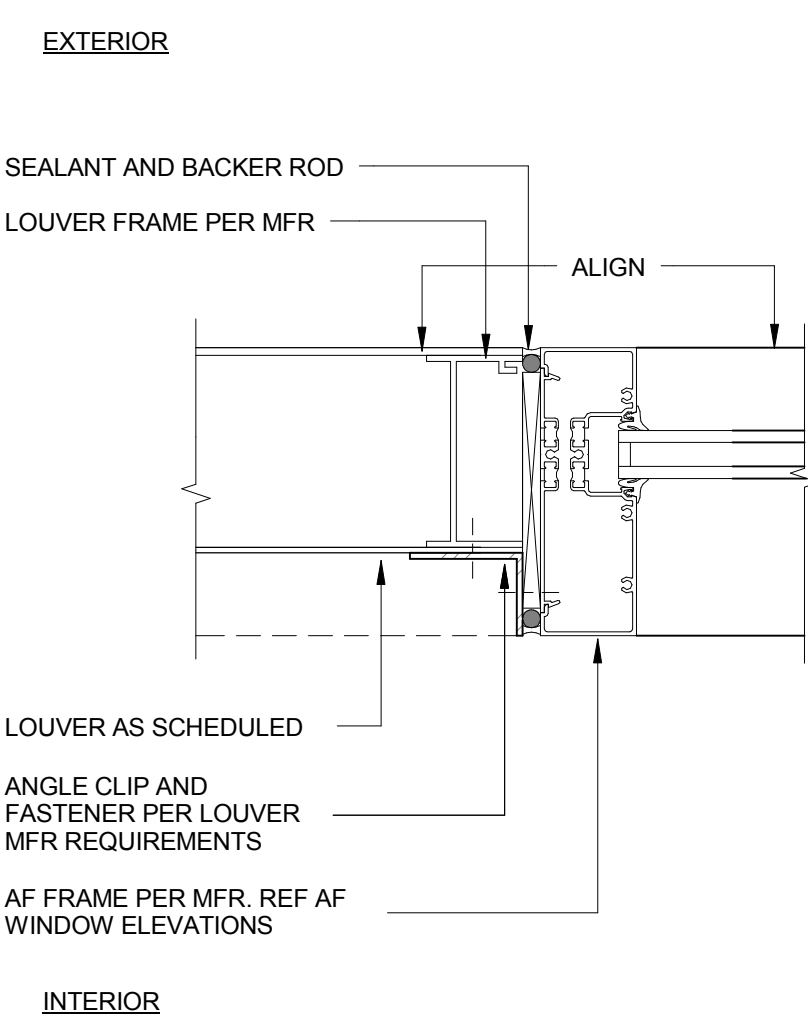
H5 LOUVER SILL DETAIL AT MTL PANEL WALL
3" = 1'-0"



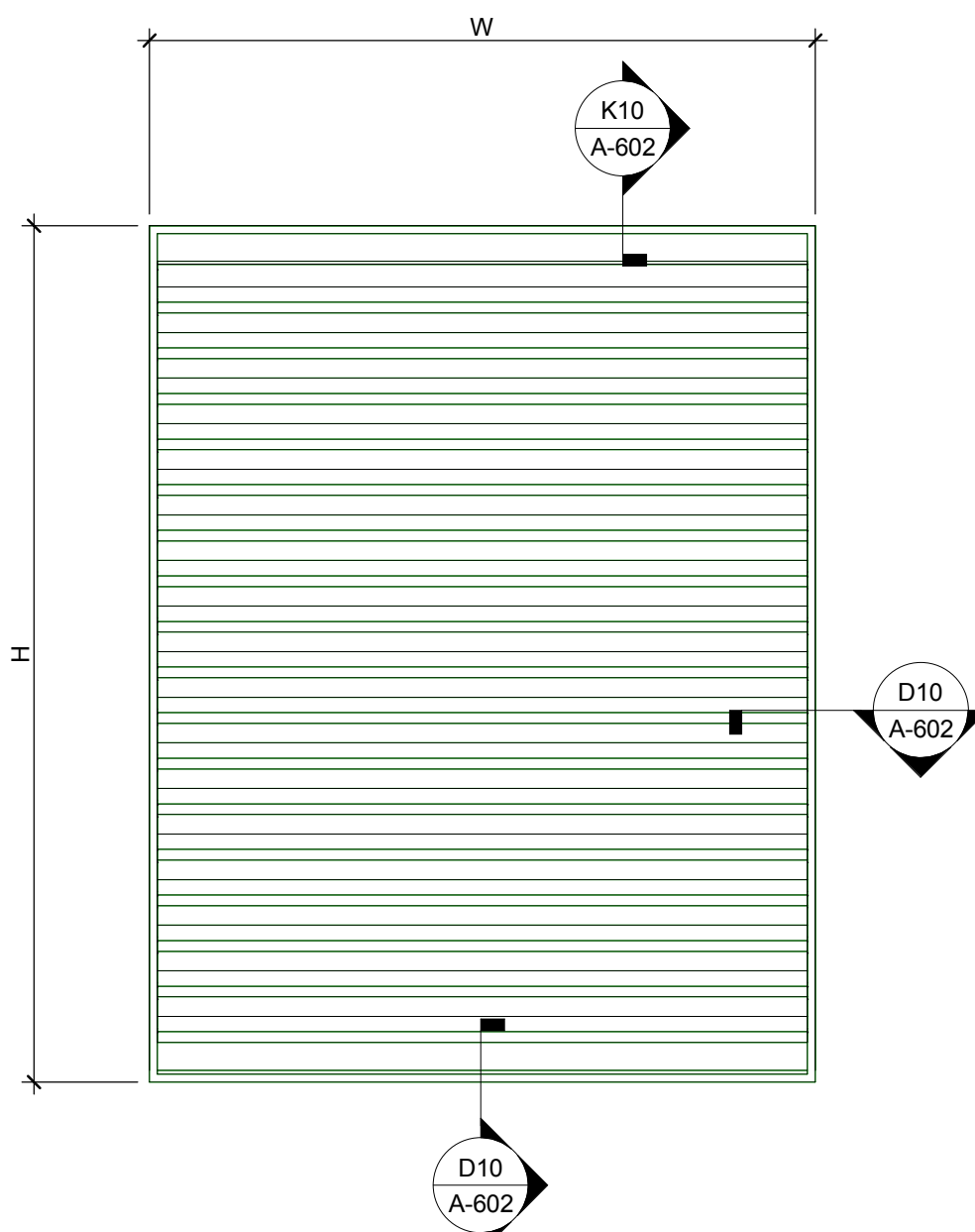
K10 LOUVER HEAD IN AF GLAZING
3" = 1'-0"



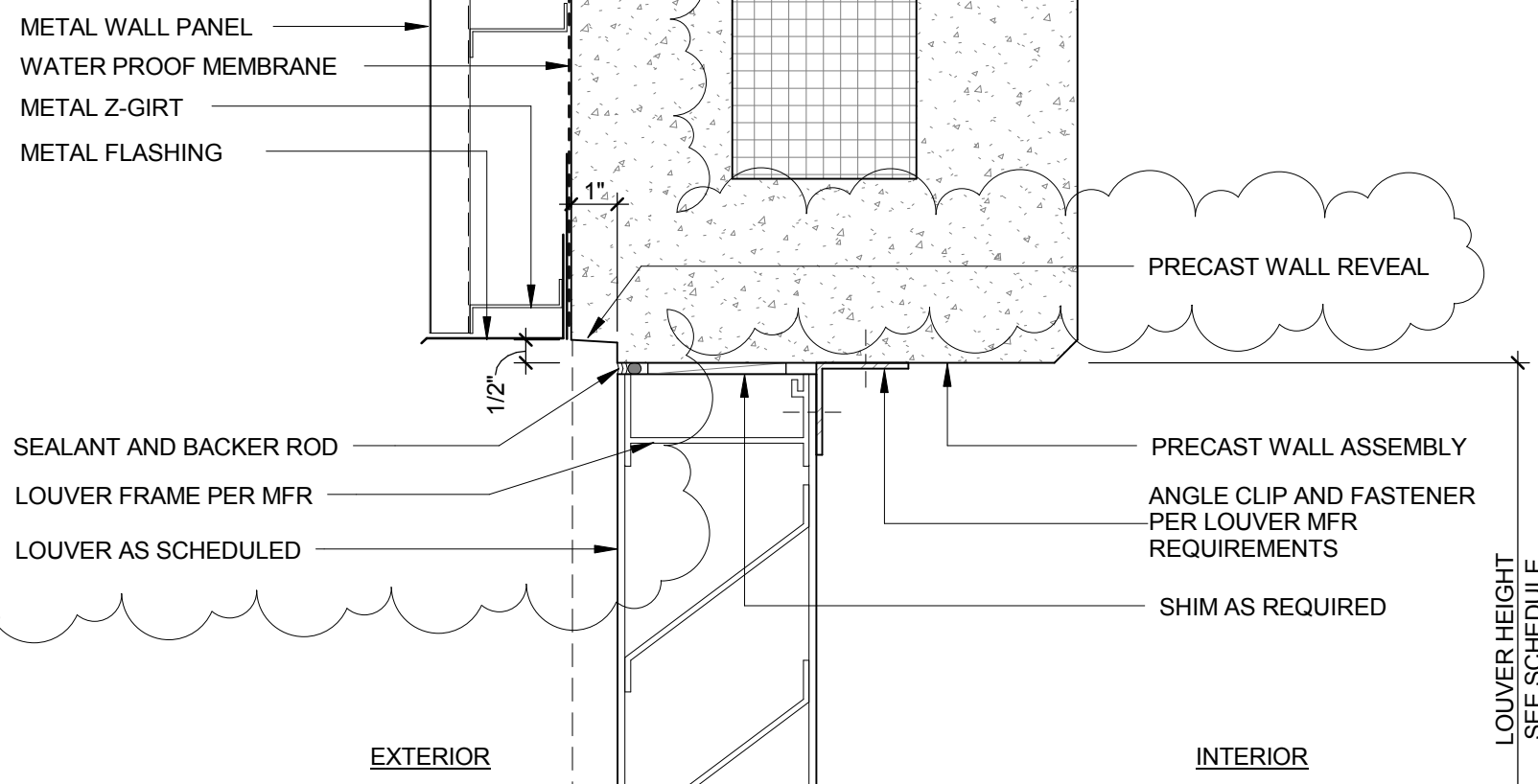
H10 LOUVER SILL AT IN AF GLAZING
3" = 1'-0"



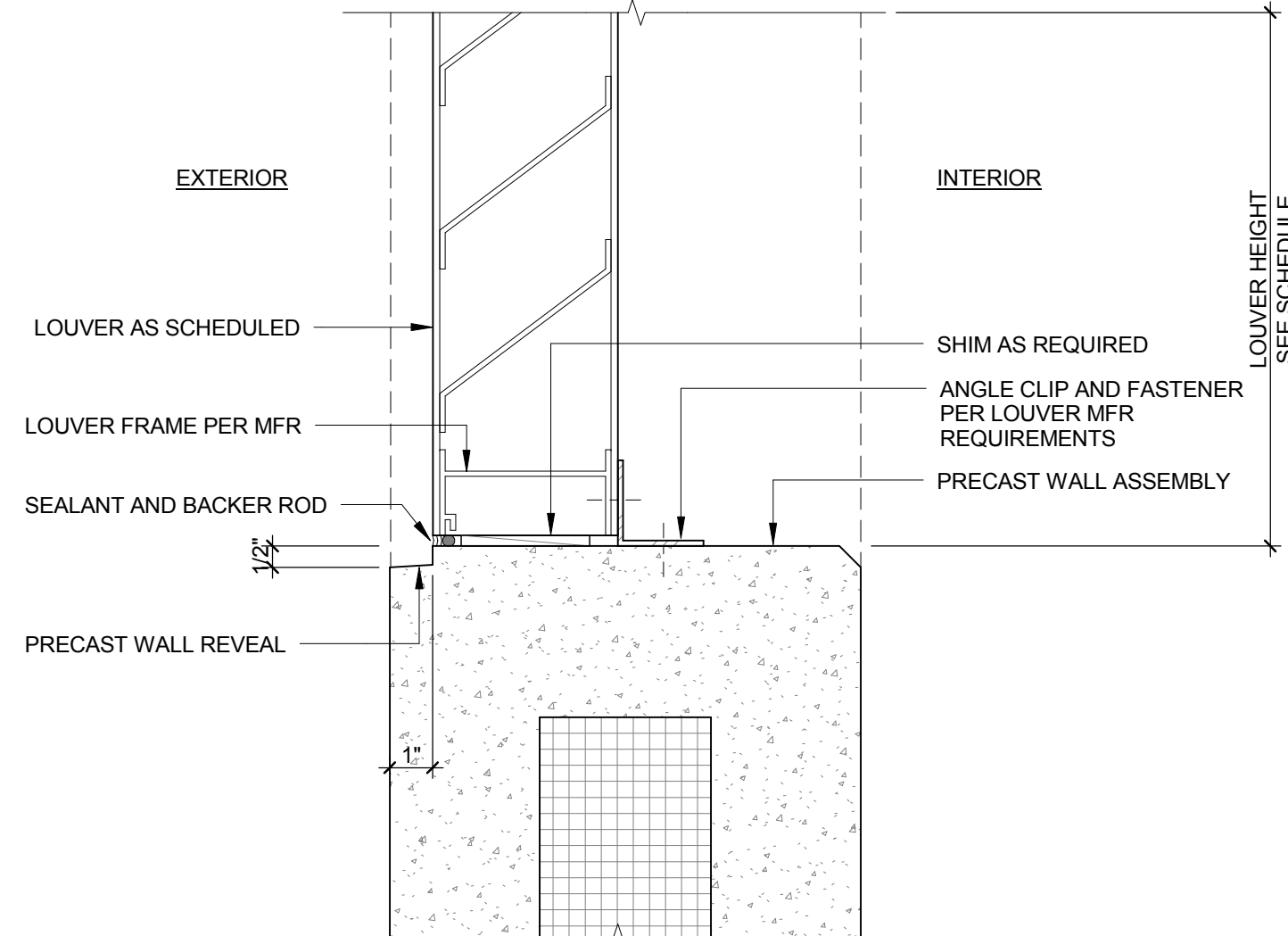
D10 LOUVER JAMB IN AF GLAZING
3" = 1'-0"



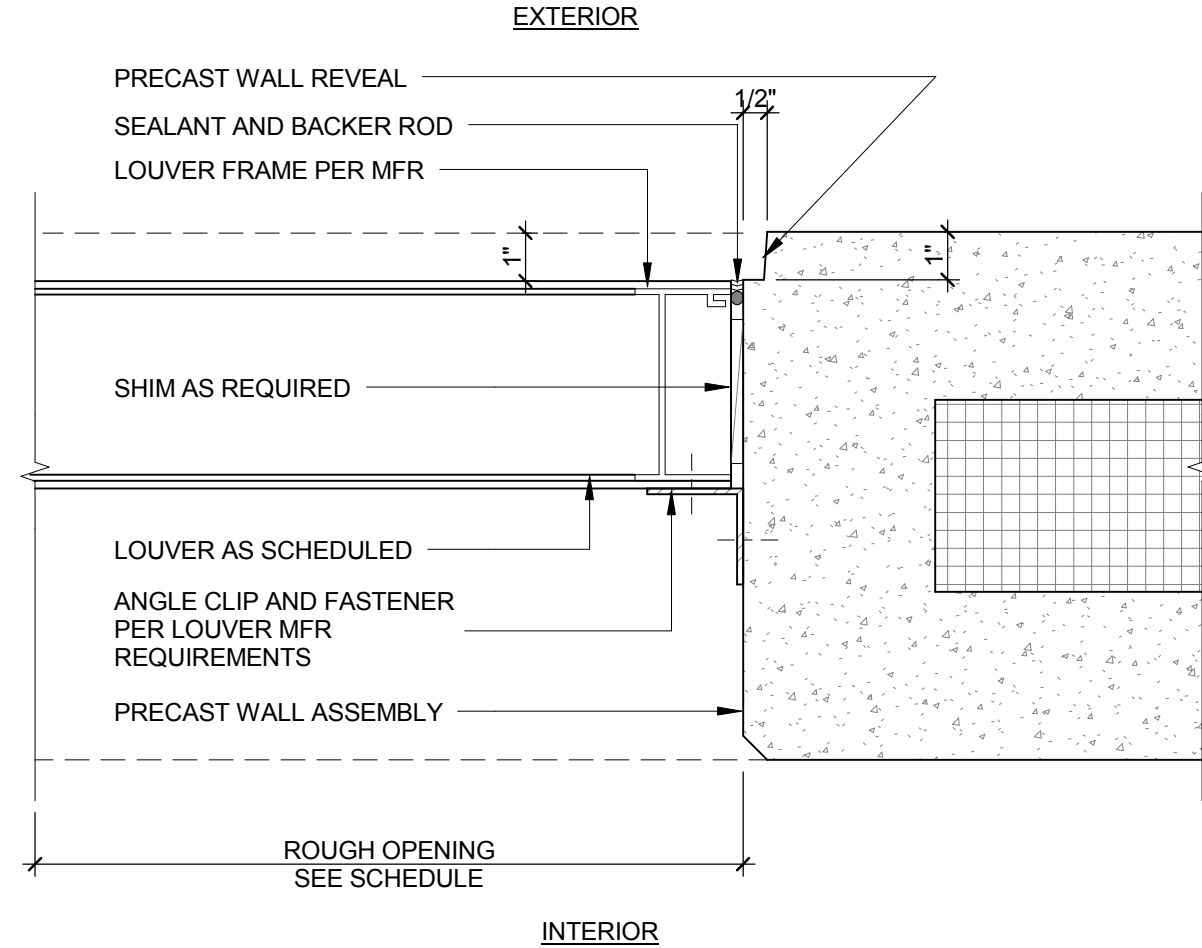
A10 TYP LOUVER IN AF GLAZING
1/2" = 1'-0"



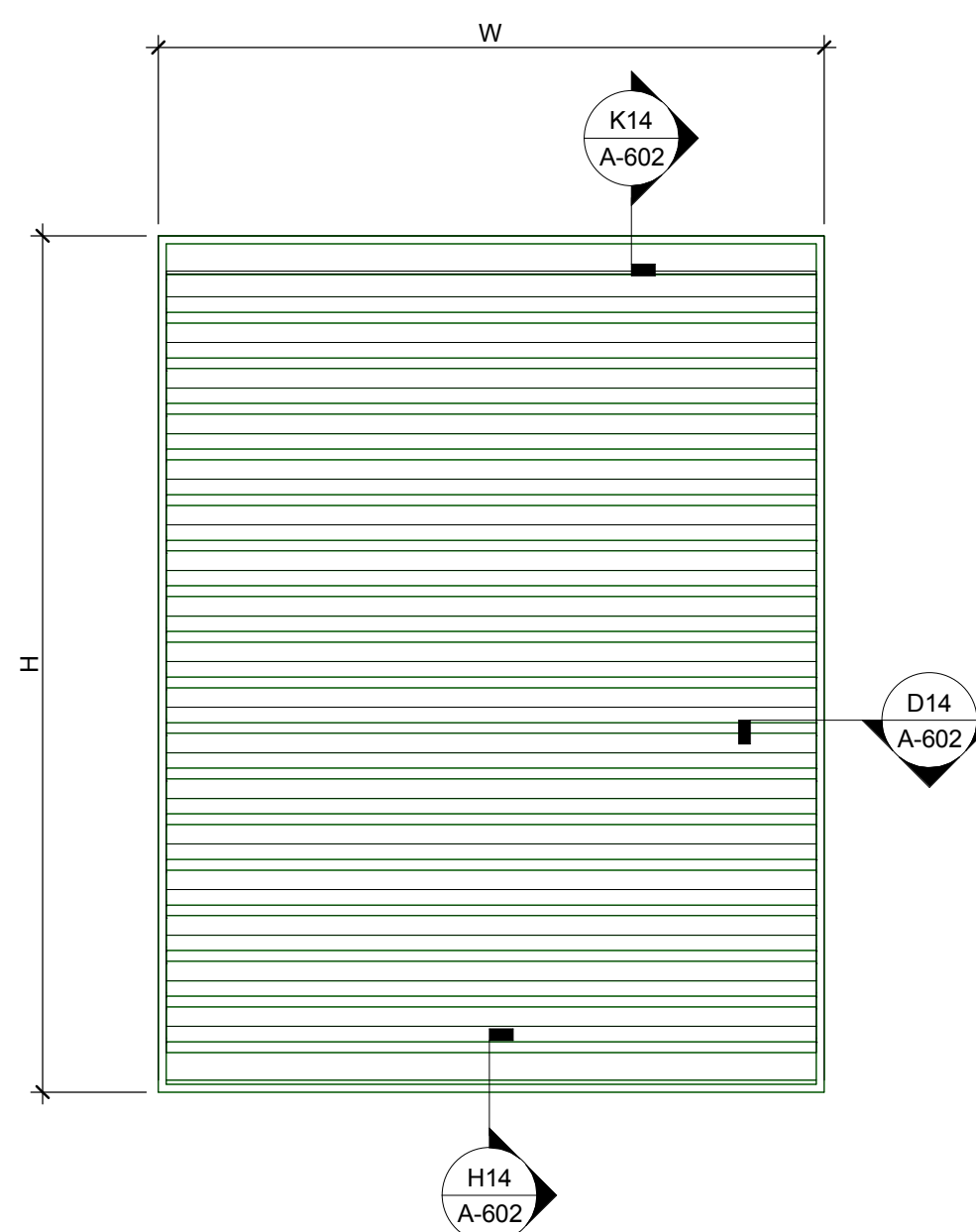
K14 LOUVER HEAD AT PRECAST
3" = 1'-0"



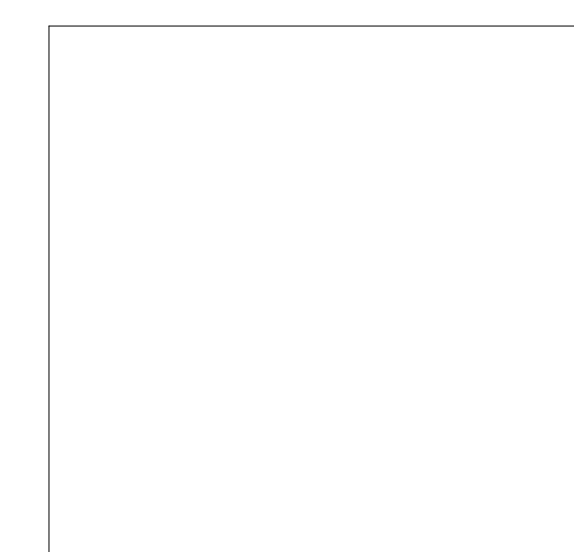
H14 LOUVER SILL AT PRECAST
3" = 1'-0"



D14 LOUVER JAMB AT PRECAST
3" = 1'-0"



A14 TYP LOUVER AT PRECAST
1/2" = 1'-0"



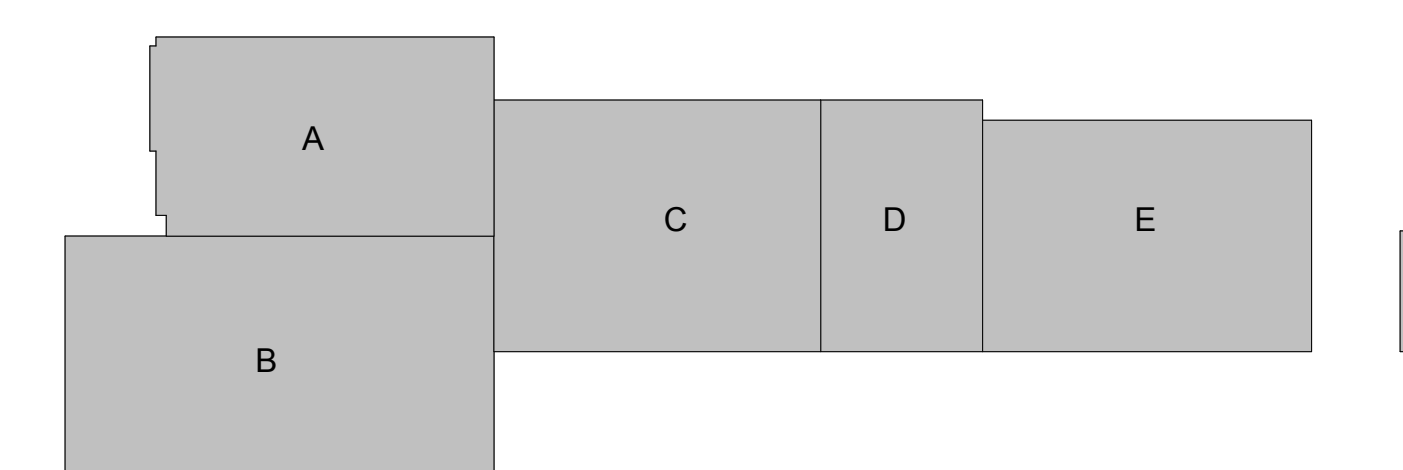
ROOM FINISH SCHEDULE											
Level	NO	NAME	FLOOR		WALLS				CEILING		
			FINISH	BASE	NORTH FINISH	SOUTH FINISH	EAST FINISH	WEST FINISH	FINIS H	SUBSTRATE	
Not Placed											
Not Placed	158	MEZZANINE									
Not Placed	1099	RESTROOM									
Not Placed	1139	JANITOR									
Not Placed	1140	SHOWER									
Not Placed	1140	SHOWER									
Not Placed	1151	MECH & IT									
Not Placed	1152	Room									
MAIN LEVEL											
MAIN LEVEL	1001	TRAINING ROOM	RF-4	B-1	P-1	P-1	P-1	P-5	ACT-2		
MAIN LEVEL	1002	AV STORAGE	SC-1	B-1	P-1	P-1	P-1	OTS			
MAIN LEVEL	1003	OFFICE	RF-4	B-1	P-1	P-1	P-1	P-1	ACT-1		
MAIN LEVEL	1004	OFFICE	RF-4	B-1	P-1	P-1	P-1	P-1	ACT-1		
MAIN LEVEL	1005	OFFICE	RF-4	B-1	P-1	P-1	P-1	P-1	ACT-1		
MAIN LEVEL	1007	OFFICE	RF-4	B-1	P-1	P-1	P-1	P-1	ACT-1		
MAIN LEVEL	1008	OFFICE	RF-4	B-1	P-1	P-1	P-1	P-1	ACT-1		
MAIN LEVEL	1009	CONF. RM.	RF-4	B-1	P-5	P-1	P-1	P-1	ACT-2		
MAIN LEVEL	1010	VEST.	WCPT-1	B-1 @ GYP BD.	--	P-1	--	--	ACT-1		
MAIN LEVEL	1011	CUSTOMER WAITING	RF-3	B-1	P-1	P-1	--	P-1	ACT-1		
MAIN LEVEL	1012	ADMIN	RF-3	B-1	P-1	P-1	P-1	--	ACT-1		
MAIN LEVEL	1013	CORRIDOR	RF-3	B-1	P-1	P-1	P-1	P-1	ACT-1		
MAIN LEVEL	1014	KEY ROOM	RF-3	B-1	P-1	P-1	P-1	P-1	ACT-1		
MAIN LEVEL	1015	BREAKROOM	RF-3/RF-4	B-1	P-4	P-1	--	--	ACT-2		
MAIN LEVEL	1017	CORRIDOR	RF-3	B-1	--	--	P-4	P-1	ACT-1		
MAIN LEVEL	1018	RR	FT-1	B-2					GB-1		
MAIN LEVEL	1019	RR	FT-1	B-2					GB-1		
MAIN LEVEL	1020	RR	FT-1	B-2					GB-1		
MAIN LEVEL	1021	STOR.	SC-1	B-1	--	P-1	--	P-1	ACT-1		
MAIN LEVEL	1022	WOMEN'S LKRRR	FT-1	B-2					ACT-3		
MAIN LEVEL	1023	CORRIDOR	PC-1	B-1	--	P-1	P-1	P-1	ACT-1		
MAIN LEVEL	1024	MEN'S LKRRR	FT-1	B-2					ACT-3		
MAIN LEVEL	1024A	CLOSET	SC-1	B-1					GB-1		
MAIN LEVEL	1025	PARTS ROOM	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1026A	PARTS RECEIVING	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1026	LUBE/COMPRESSOR ROOM	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1027	PARTS CLERKS	SC-1	B-1	--	P-1	P-1	P-1	ACT-2		
MAIN LEVEL	1028	CORRIDOR	PC-1	B-1	--	--	--	--	ACT-1		
MAIN LEVEL	1029	VEST.	WCPT-1	B-1 @ GYP BD.	--	P-1	--	--	ACT-1		
MAIN LEVEL	1030	ELECTRICAL CLOSET	SC-1	B-1					GB-1		
MAIN LEVEL	1031	J.C.	SC-1	B-1	P-1	P-1	P-1	P-1	ACT-1		
MAIN LEVEL	1032	SHOWER	FT-1/FT-2	B-2/B-3					GB-1		
MAIN LEVEL	1033	STAIR 2	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1034	STAIR 3	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1036	PORT. EQUIP. STORAGE	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1037	IT	SC-1	B-1	P-1	P-1	P-1	P-1	ACT-2		
MAIN LEVEL	1038	FITNESS ROOM	RF-1	B-1	P-1	P-1	P-1	P-1	ACT-2		
MAIN LEVEL	1039	COMMON WORK AREA	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1040	TOOL CRIB	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1041	CONF. RM.	RF-4	B-1	P-1	P-1	P-1	P-1	ACT-2		
MAIN LEVEL	1042	PUBLIC WORKS GEN. FOREMAN	PC-1	B-1	P-1	P-1	P-1	P-1	ACT-2		
MAIN LEVEL	1043	CHECK-IN COUNTER	PC-1	B-1	P-1	P-1	P-1	P-1	ACT-2		
MAIN LEVEL	1044	TIRE STORAGE	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1045	LIGHT VEHICLE REPAIR BAY 1	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1046	LIGHT VEHICLE REPAIR BAY 2	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1047	LIGHT VEHICLE REPAIR BAY 3	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1048	LIGHT VEHICLE REPAIR BAY 4	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1049	LIGHT VEHICLE REPAIR BAY 5	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1050	LIGHT VEHICLE REPAIR BAY 6	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1051	LIGHT VEHICLE REPAIR BAY 7	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1052	LIGHT VEHICLE REPAIR BAY 8	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1053	TIRE SHOP	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1054	FIRE RISER ROOM	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1055	LIGHT DUTY MAINTENANCE BAY	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1056	MAIN ELEC ROOM	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1057	LIGHT VEHICLE REPAIR BAY 9	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1058	LIGHT VEHICLE REPAIR BAY 10	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1059	LIGHT VEHICLE REPAIR BAY 11	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1060	LIGHT VEHICLE REPAIR BAY 12	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1061	LIGHT VEHICLE REPAIR BAY 13	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1062	LIGHT VEHICLE REPAIR BAY 14	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1063	LIGHT VEHICLE REPAIR BAY 15	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1064	LIGHT VEHICLE REPAIR BAY 16	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1065	WASH BAY	RES-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1069	FUEL TANK	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1075	EQUIPMENT STORAGE	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1076	TIRE SHOP/STORAGE	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1077	HEAVY VEHICLE REPAIR BAY 1	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1078	HEAVY VEHICLE REPAIR BAY 2	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1079	HEAVY VEHICLE REPAIR BAY 3	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1080	HEAVY VEHICLE REPAIR BAY 4	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1081	HEAVY VEHICLE REPAIR BAY 5	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1082	HEAVY VEHICLE REPAIR BAY 6	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1083	FIRE REPAIR BAY 7	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1084	HEAVY VEHICLE REPAIR BAYS	PC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1085	TOOL BOX	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1086	COMMON WORK AREA	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1087	HEAVY VEHICLE REPAIR BAY 8	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1088	HEAVY VEHICLE REPAIR BAY 9	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1089	HEAVY VEHICLE REPAIR BAY 10	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1090	HEAVY VEHICLE REPAIR BAY 11	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1091	HEAVY VEHICLE REPAIR BAY 12	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1092	FIRE REPAIR BAY 14	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1093	CHASSIS WASH	RES-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1096	FABRICATION BAY	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1097	MASK & BREATHABLE AIR BOTTLE STOR. RM.	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1098	MASK SHOP	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1099	R.R.	PC-1	B-2					ACT-3		
MAIN LEVEL	1100	PAINT BOOTH	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1101	BODY SHOP	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1102	STORAGE	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1103	DICAL ROOM	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1110	CORRIDOR	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1111	WORK STATION	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1112	INSTALL BAYS	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1113	INSTALL BAYS	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1114	INSTALL BAYS	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1115	INSTALL BAYS	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1116	INSTALL BAYS	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1117	WORK STATION	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1118	INSTALL BAY	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1119	INSTALL BAY	SC-1	B-1	--	--	--	--	OTS		
MAIN LEVEL	1120	CORRIDOR	SC-1	--	--	--	--	--	OTS		
MAIN LEVEL	1121	CONF. RM.	RF-4	B-1	P-1	--	--	P-1	ACT-2		
MAIN LEVEL	1122	VEST.	WCPT-1	B-1 @ GYP BD.	--	P-1	--	P-1	ACT-1		
MAIN LEVEL	1123	CUSTOMER WAITING	RF-2/RF-4	B-1	P-1	--	--	P-1	ACT-1		
MAIN LEVEL	1124	RESTROOM	FT-1	B-2					ACT-3		
MAIN LEVEL	1125	CORRIDOR	SC-1	B-1	--	--	--	--	ACT-1		
MAIN LEVEL	1126	TECH	ESD-1	B-1	--	--	P-1	--	ACT-2		
MAIN LEVEL	1127	TECH	ESD-1	B-1	--	--	--	--	ACT-2		
MAIN LEVEL	1128	TECH	ESD-1	B-1	--	--	--	P-1	ACT-2		
MAIN LEVEL	1129	TECH	ESD-1	B-1	--	--	--	P-1	ACT-2		
MAIN LEVEL	1130	WORK STATION	ESD-1	B-1	--	--	--	--	ACT-2		

ROOM FINISH SCHEDULE											
Level	NO	NAME	FLOOR		WALLS				CEILING		
			FINISH	BASE	NORTH FINISH	SOUTH FINISH	EAST FINISH	WEST FINISH	FINIS H	SUBSTRATE	
MAIN LEVEL	1131	TECH	ESD-1	B-1	--	--	--	--	P-1	ACT-2	
MAIN LEVEL	1132	SUPER.	ESD-1	B-1	P-1	P-1	--	--	P-1	ACT-1	
MAIN LEVEL	1133	TECH	ESD-1	B-1	--	--	--	--	--	ACT-2	
MAIN LEVEL	1134	TECH	ESD-1	B-1	--	--	--	--	P-1	ACT-2	
MAIN LEVEL	1135	TECH	ESD-1	B-1	--	--	--	--	P-1	ACT-2	
MAIN LEVEL	1136	WALKWAY	PC-1	B-1	--	--	--	--	--	ACT-2	
MAIN LEVEL	1137	MENS LKRRR	FT-1/FT-2	B-2/B-3						ACT-3	
MAIN LEVEL	1138	ADMIN.	PC-1	B-1	--	--	--	--	P-1	ACT-2	
MAIN LEVEL	1140	JAN	SC-1	B-1	P-1	P-1	--	--	P-1	GB-1	
MAIN LEVEL	1141	WOMENS LKRRR	FT-1/FT-2	B-2/B-3						ACT-3	
MAIN LEVEL	1142	KIT.	PC-1	B-1	--	P-1	P-1	--	P-1	ACT-2	
MAIN LEVEL	1143	IT	SC-1	B-1	P-1	P-1	P-1	--	P-1		
MAIN LEVEL	1144	PARTS STORAGE	SC-1	B-1	--	--	--	--	--	OTS	
MAIN LEVEL	1145	CORRIDOR	SC-1	B-1	--	--	--	--	--	OTS	
MAIN LEVEL	1146	SERVICE BAYS	SC-1	B-1	--	--	--	--	--	OTS	
MAIN LEVEL	1146A	JAN	SC-1	B-1	--	--	--	--	--	OTS	
MAIN LEVEL	1147	SERVICE BAYS	SC-1	B-1	--	--	--	--	--	OTS	
MAIN LEVEL	1148	CORRIDOR	SC-1	B-1	--	--	--	--	--	OTS	
MAIN LEVEL	1150	STORAGE BUILDING	SC-1	B-1	--	--	--	--	--	OTS	
MEZZANINE RADIO LEVEL											
MEZZANINE RADIO LEVEL	2007	MECHANICAL MEZZANINE	SC-1	B-1	--	--	P-1	P-1	OTS		
MEZZANINE MAIN LEVEL											
MEZZANINE MAIN LEVEL	2001	PARTS MEZZANINE	SC-1	B-1							
MEZZANINE MAIN LEVEL	2002	LIGHT DUTY MEZZANINE	SC-1	B-1	--	--	--	--	OTS		
MEZZANINE MAIN LEVEL	2003	MECHANICAL MEZZANINE	SC-1	B-1	--	--	--	--	OTS		
MEZZANINE MAIN LEVEL	2004	IT	SC-1	B-1	--	--	--	--	OTS		
MEZZANINE MAIN LEVEL	2006	MECH MEZZANINE									
MECH MEZZ 3											
MECH MEZZ 3	2005	MECHANICAL MEZZANINE	SC-1	B-1							


$$3/64" = 1'-0"$$

FINISH NOTES

- | | |
|----|--|
| 1 | REFERENCE SPECIFICATIONS AND SHEET AF-001 FOR FINISH LEGEND AND SPECIFICATIONS. |
| 2 | ALL INTERIOR PARTITIONS AND COLUMNS SHALL BE P-1, U.N.O. |
| 3 | RUMBER BASE B-1 SHALL BE USED THROUGHOUT, U.N.O. |
| 4 | GENERAL CONTRACTOR TO PREPARE FLOOR AND INSTALL ADHESIVES, FLOORING MATERIALS AND BASE. |
| 5 | REPAIR FLOOR TO REFLECT CEILING FINISH FOR EXTENT OF DRYWALL CEILING SHALL BE PAINTED ALL DRYWALL CEILINGS AND SOFFITS SHALL BE FLAT FINISH. |
| 6 | SCHEDULED FLOOR FINISH SHALL CONTINUE UNDER CASEWORK WITH ATTACHED TOE KICKS, EQUIPMENT, AND FREESTANDING FURNITURE. |
| 7 | ALL FLOORING TRANSITIONS TO OCCUR AT CENTERLINE OF DOORWAYS, U.N.O. |
| 8 | WALL TEXTURE TO BE LEVEL, 4 WALL FINISH, U.N.O. CEILING TO BE LEVEL, 4 FINISH, U.N.O. |
| 9 | REFER TO ELEVATIONS, DETAILS AND FINISH PLANS FOR EXTENT OF ALL FINISH DESIGNATIONS. |
| 10 | ALL HM DOORS AND FRAMES TO BE PAINTED P-3 IN A SEMI-GLOSS FINISH, U.N.O. |
| 11 | TERMINATE PAINT AT EDGE OF GLASS WHERE APPLICABLE. |
| 12 | ALL REPAIRS IN VET. AREAS SHALL BE PAINTED WITH A SEMI-GLOSS FINISH. |
| 13 | REPAIR FLOOR TO SMOOTH LEVEL SURFACE BEFORE INSTALLING NEW FLOORING AND MILLWORK. FLOOR FLOOR AS REQUIRED TO ELIMINATE ANY CHANGE IN FINIS ELEVATION BETWEEN ADJACENT MATERIALS. |
| 14 | ACCESS PANELS SHALL BE PAINTED WITH ELECTROSTATIC PAINT TO MATCH ADJACENT FINISH. |
| 15 | PROVIDE ALUMINUM SILL TIE STRIP TRANSITION AT ALL FLOORING TYPE TRANSITIONS. |



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NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY
AREA: 117,946 GROSS SF
14151 NAKOOSA TRAIL
MADISON, WISCONSIN, 53714
ARCHITECTURE

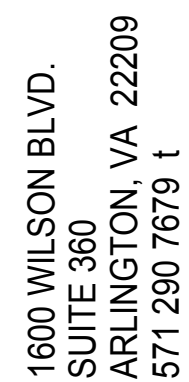
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OVERALL LEVEL 1 FINISH
PLAN

A-701



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ARCHITECTURE

2	ADDENDUM 2	03/05/2019
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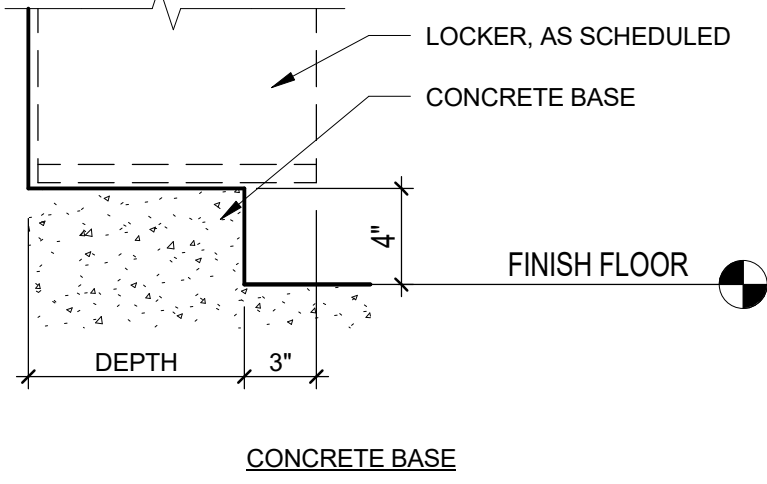
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INT ARCH DETAILS

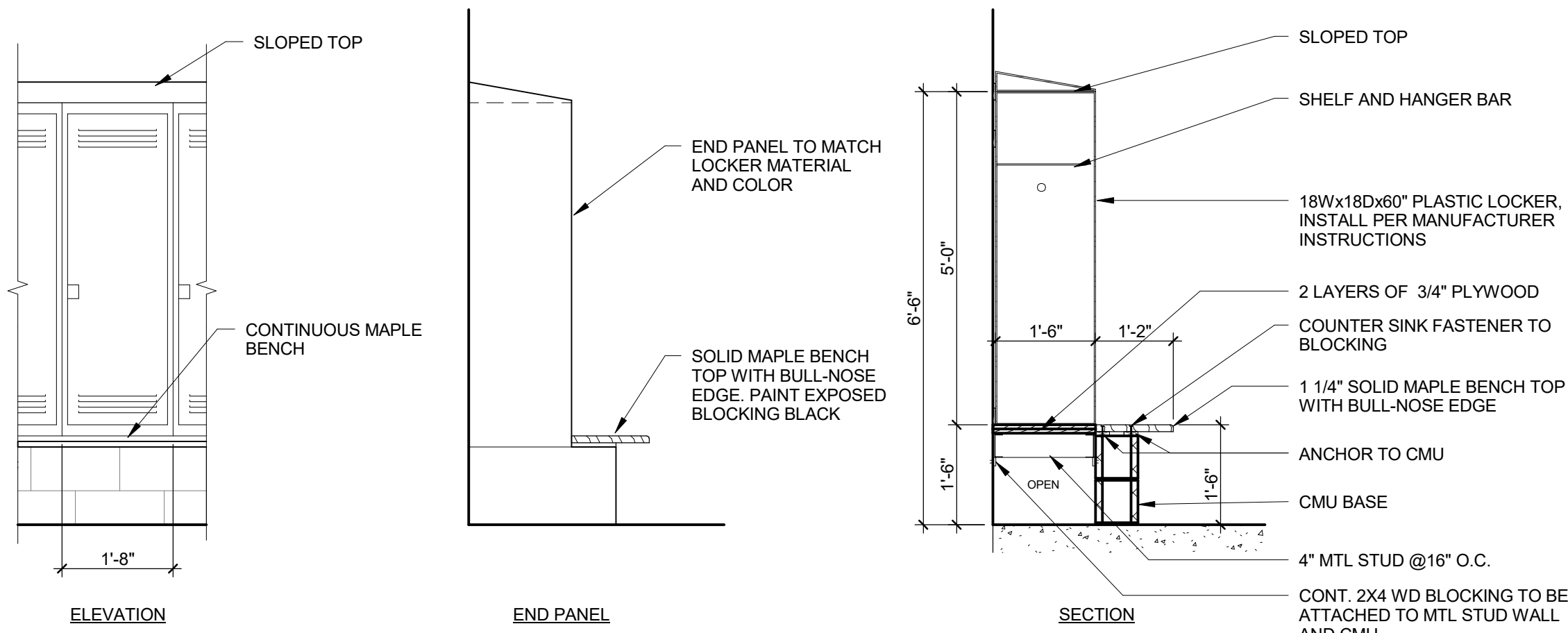
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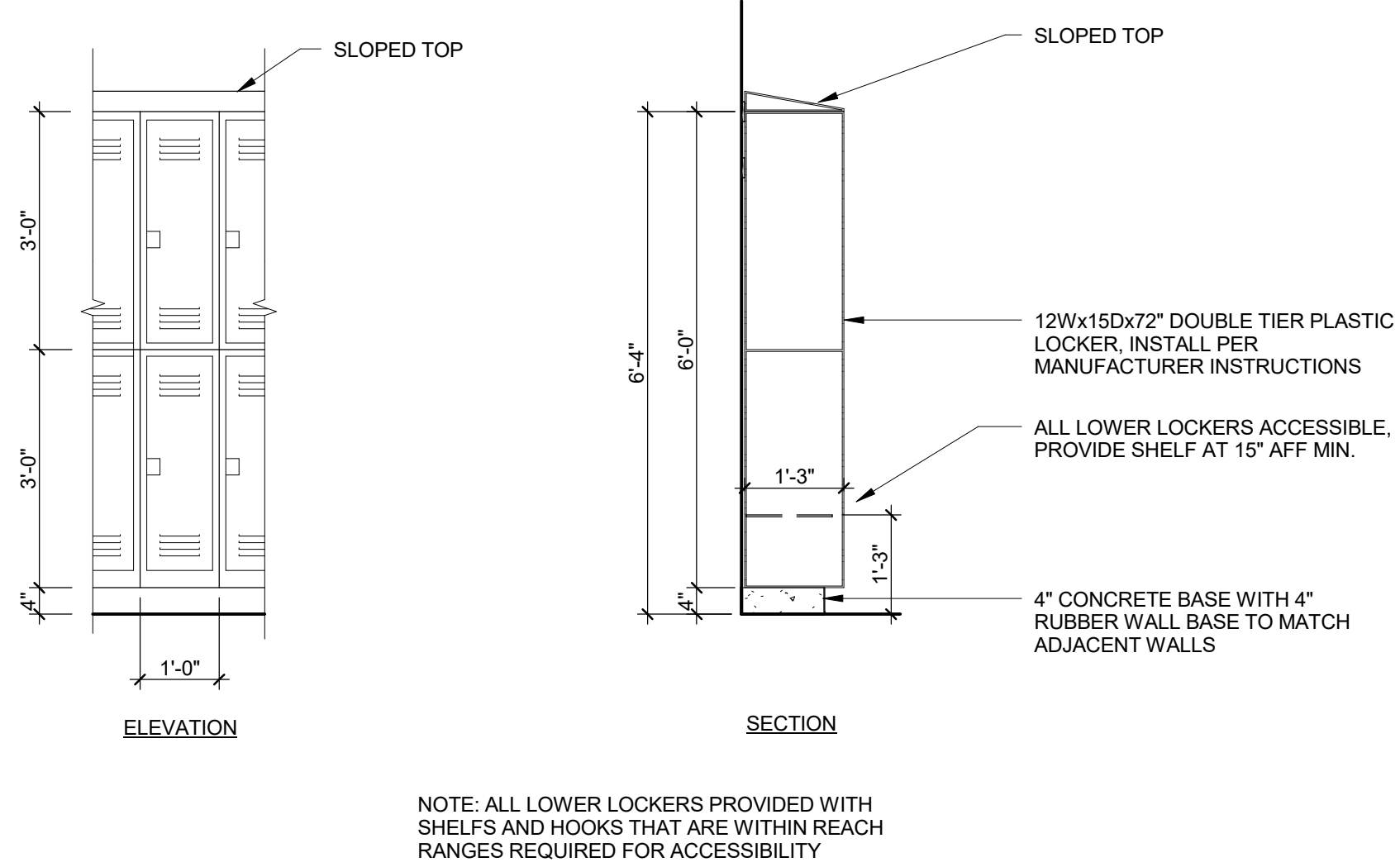
A1 LOCKER BASE DETAILS
1 1/2" = 1'-0"



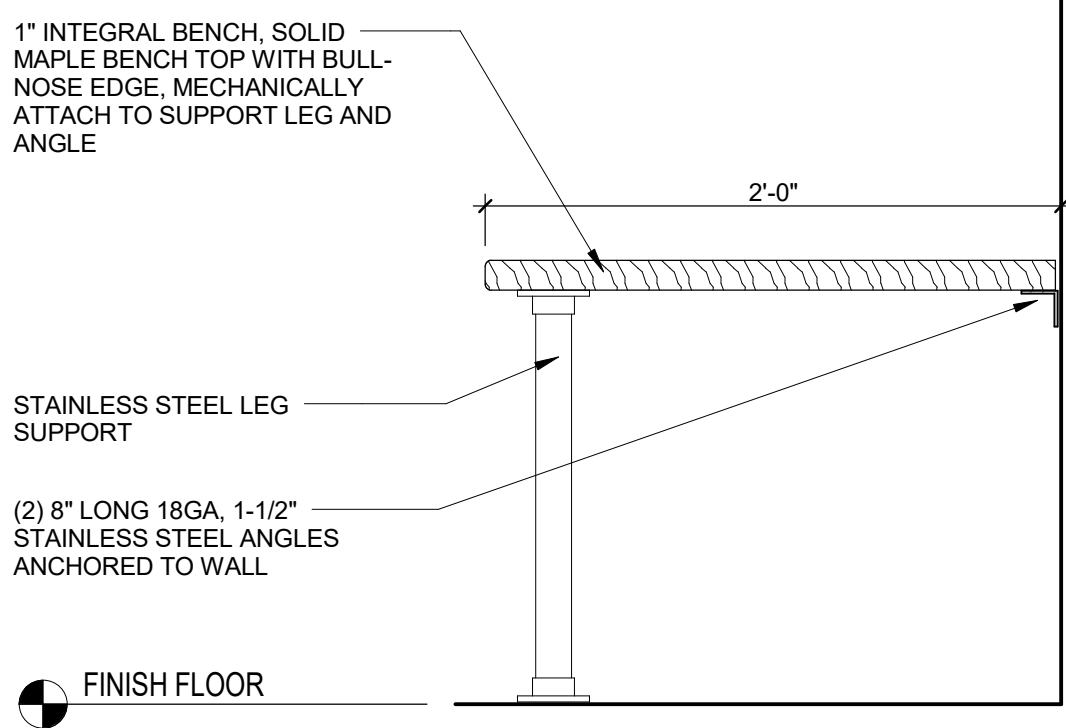
A7 LOCKER TYPE 1 - PERSONNEL DUTY - FLEET
1/2" = 1'-0"



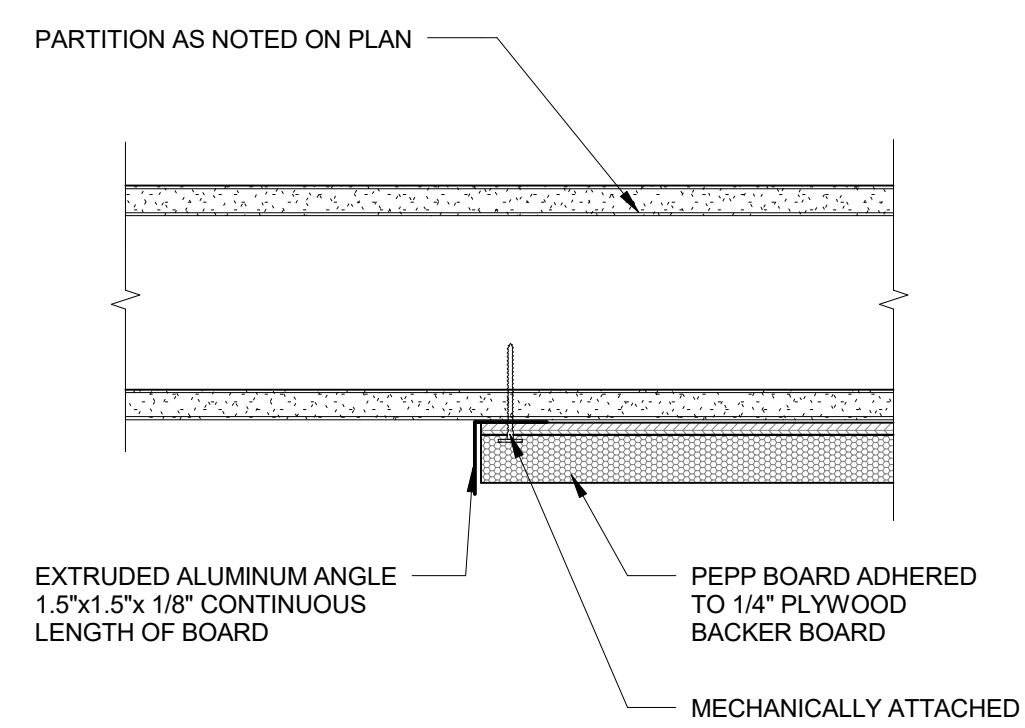
A14 LOCKER TYPE 2 - DOUBLE TIER - RADIO
1/2" = 1'-0"



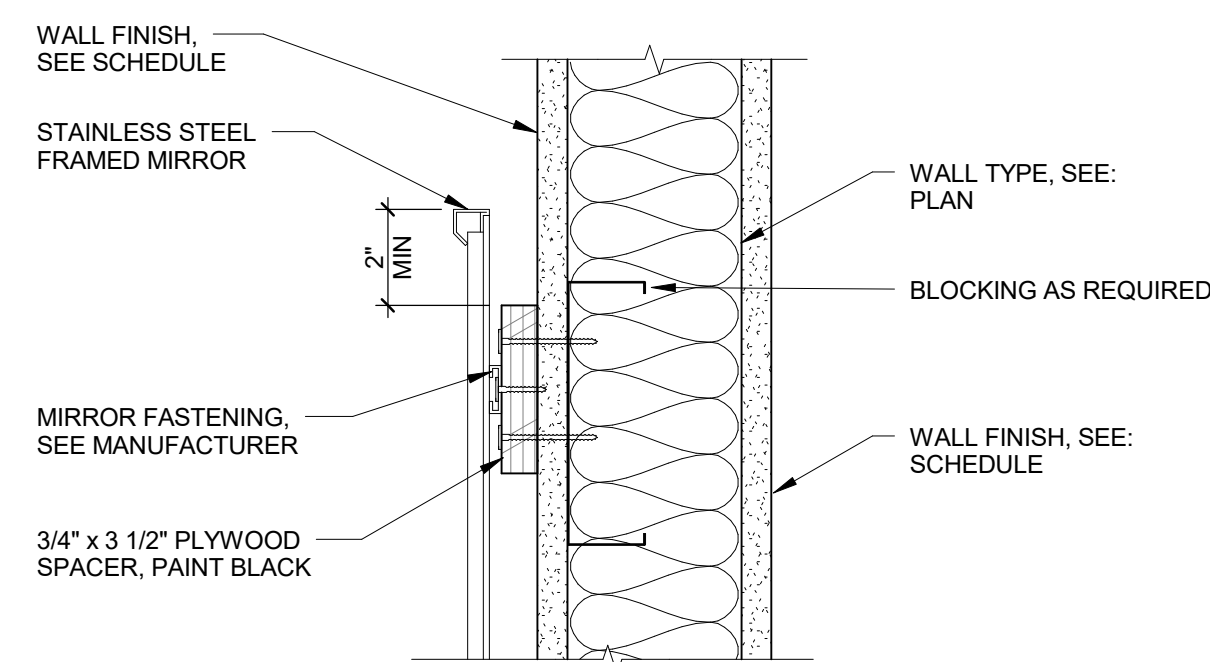
E7 LOCKER ADA BENCH DETAIL
1 1/2" = 1'-0"



H15 TACKABLE WALL SURFACE
3" = 1'-0"



E15 MIRROR-CONCEALED SPACER
3" = 1'-0"



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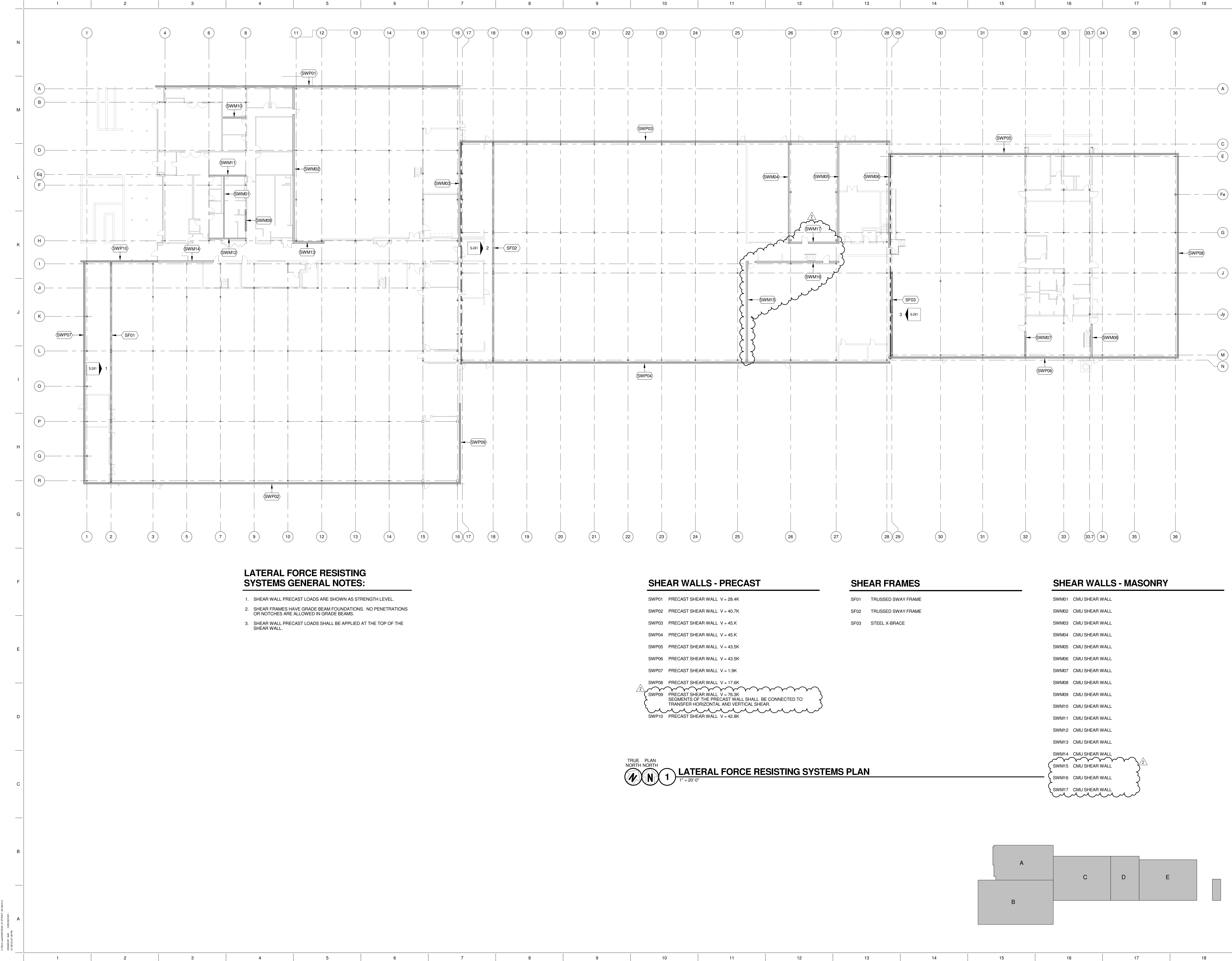
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INT LOCKER AND RR
DETAILS

A-743



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571.290.7679



LATERAL FORCE RESISTING SYSTEMS GENERAL NOTES:

1. SHEAR WALL PRECAST LOADS ARE SHOWN AS STRENGTH LEVEL.
2. SHEAR FRAMES HAVE GRADE BEAM FOUNDATIONS. NO PENETRATIONS OR NOTCHES ARE ALLOWED IN GRADE BEAMS.
3. SHEAR WALL PRECAST LOADS SHALL BE APPLIED AT THE TOP OF THE SHEAR WALL.

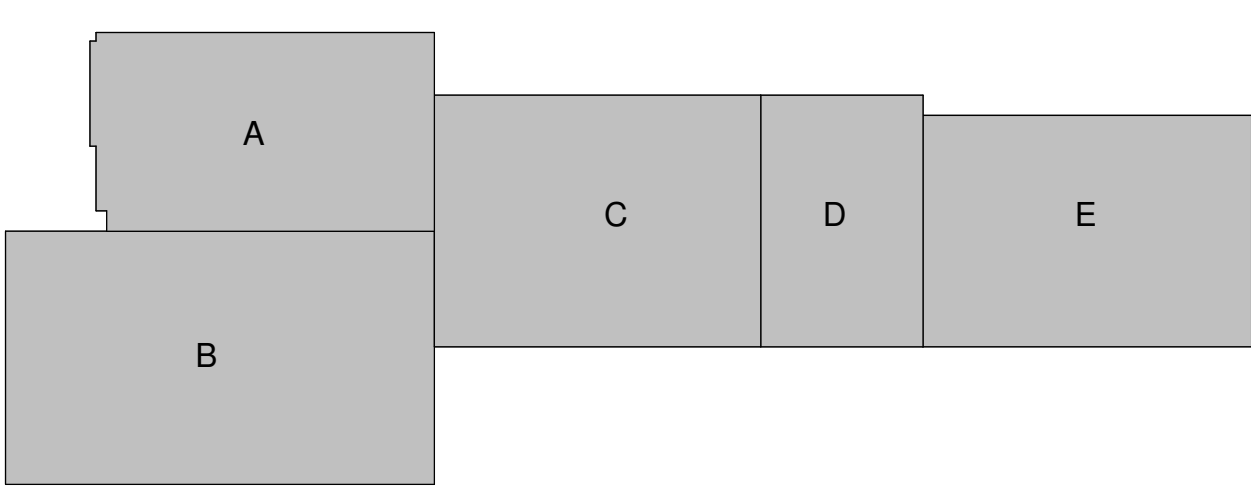
SHEAR WALLS - PRECAST	
SWP01	PRECAST SHEAR WALL V = 28.4K
SWP02	PRECAST SHEAR WALL V = 40.7K
SWP03	PRECAST SHEAR WALL V = 45.0K
SWP04	PRECAST SHEAR WALL V = 45.0K
SWP05	PRECAST SHEAR WALL V = 43.5K
SWP06	PRECAST SHEAR WALL V = 43.5K
SWP07	PRECAST SHEAR WALL V = 1.9K
SWP08	PRECAST SHEAR WALL V = 17.6K
SWP09	PRECAST SHEAR WALL V = 76.3K SEGMENTS OF THE PRECAST WALL SHALL BE CONNECTED TO TRANSFER HORIZONTAL AND VERTICAL SHEAR.
SWP10	PRECAST SHEAR WALL V = 42.8K

SHEAR FRAMES	
SF01	TRUSSED SWAY FRAME
SF02	TRUSSED SWAY FRAME
SF03	STEEL X-BRACE

SHEAR WALLS - MASONRY	
SWM01	CMU SHEAR WALL
SWM02	CMU SHEAR WALL
SWM03	CMU SHEAR WALL
SWM04	CMU SHEAR WALL
SWM05	CMU SHEAR WALL
SWM06	CMU SHEAR WALL
SWM07	CMU SHEAR WALL
SWM08	CMU SHEAR WALL
SWM09	CMU SHEAR WALL
SWM10	CMU SHEAR WALL
SWM11	CMU SHEAR WALL
SWM12	CMU SHEAR WALL
SWM13	CMU SHEAR WALL
SWM14	CMU SHEAR WALL
SWM15	CMU SHEAR WALL
SWM16	CMU SHEAR WALL
SWM17	CMU SHEAR WALL

TRUE PLAN NORTH NORTH
1" = 20'-0"

LATERAL FORCE RESISTING SYSTEMS PLAN



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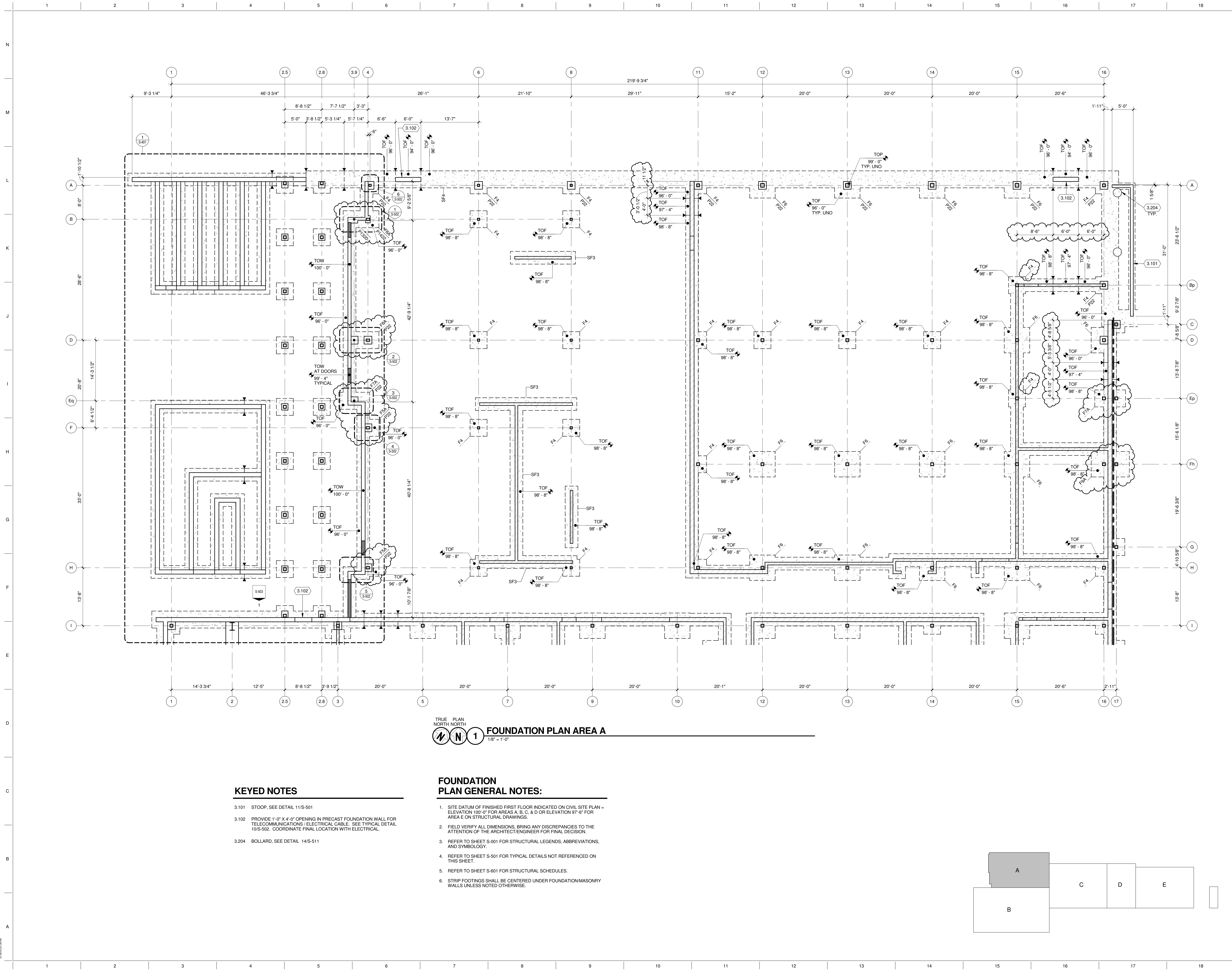
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LATERAL FORCE RESISTING SYSTEMS PLAN

S-010

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DWG: S-101A
DATE: 01/17/2019
BY: [Redacted]



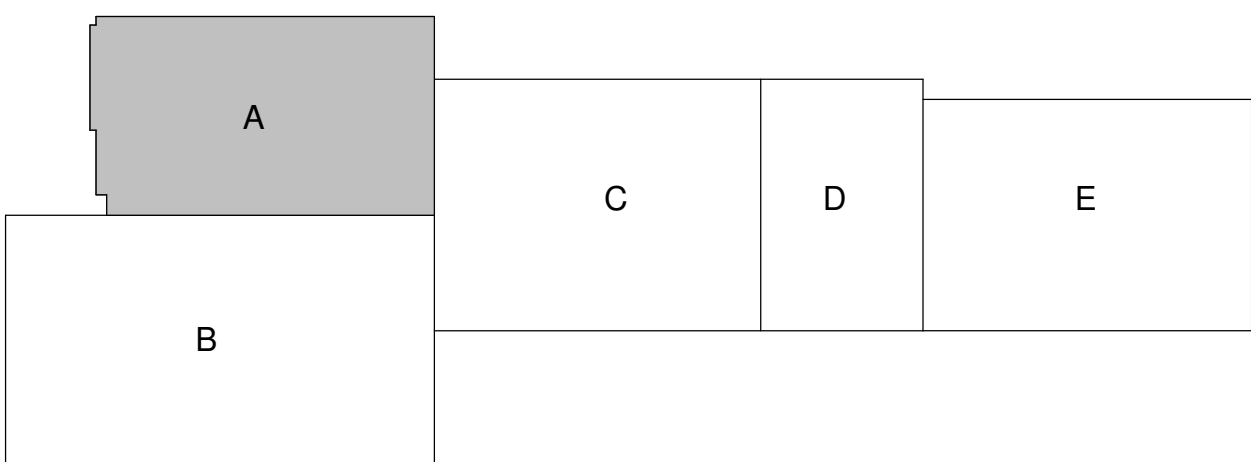
TRUE PLAN NORTH NORTH
1/8" = 1'-0"

FOUNDATION PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
4. REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
6. STRIP FOOTINGS SHALL BE CENTERED UNDER FOUNDATION MASONRY WALLS UNLESS NOTED OTHERWISE.

KEYED NOTES

- 3.101 STOOP, SEE DETAIL 11/S-501
- 3.102 PROVIDE 1'-0" X 4'-0" OPENING IN PRECAST FOUNDATION WALL FOR TELECOMMUNICATIONS/ELECTRICAL CABLE. SEE TYPICAL DETAIL 10/S-502. COORDINATE FINAL LOCATION WITH ELECTRICAL.
- 3.204 BOLLARD, SEE DETAIL 14/S-511



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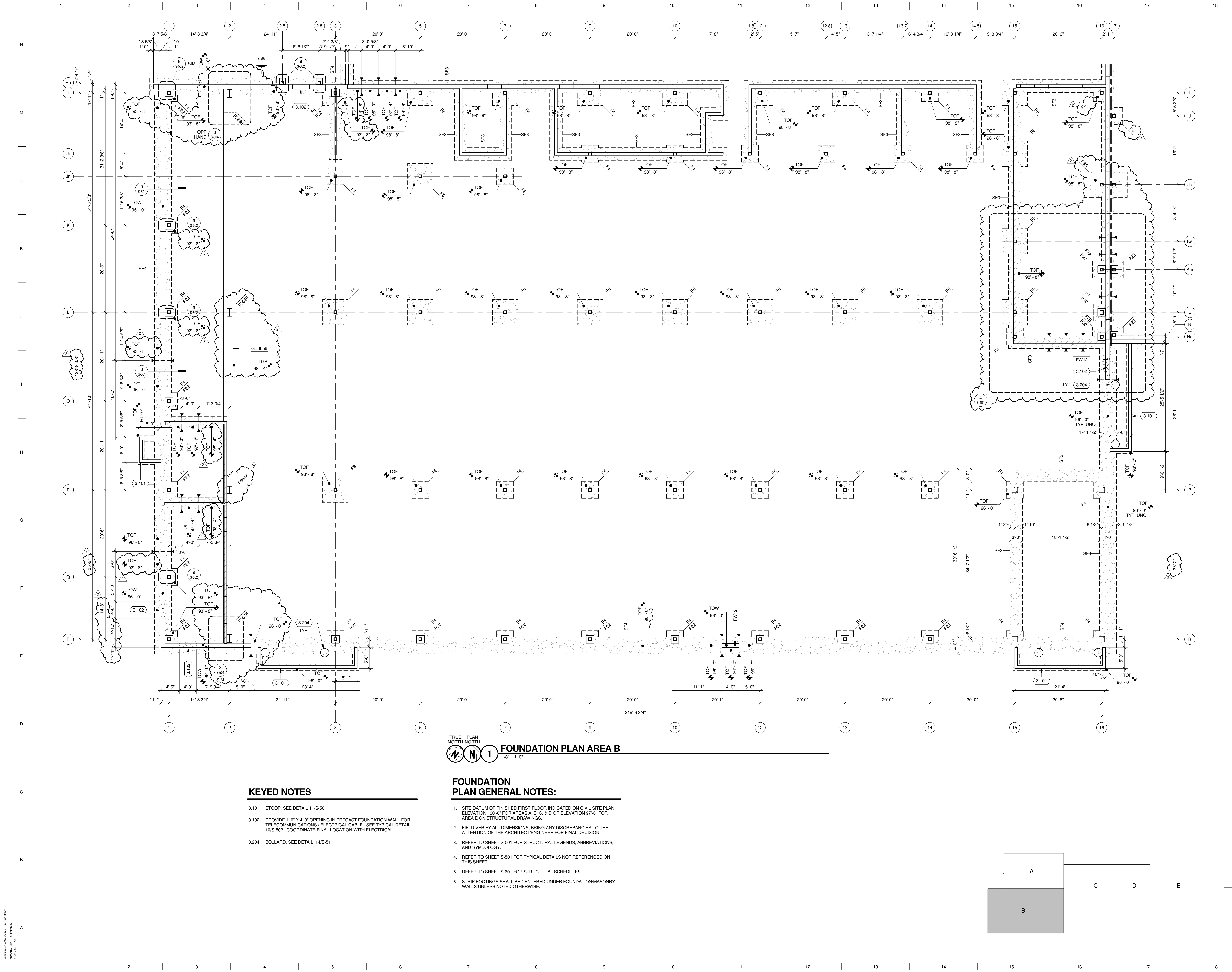
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FOUNDATION PLAN AREA A

S-101A



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FOUNDATION PLAN AREA B

S-101B

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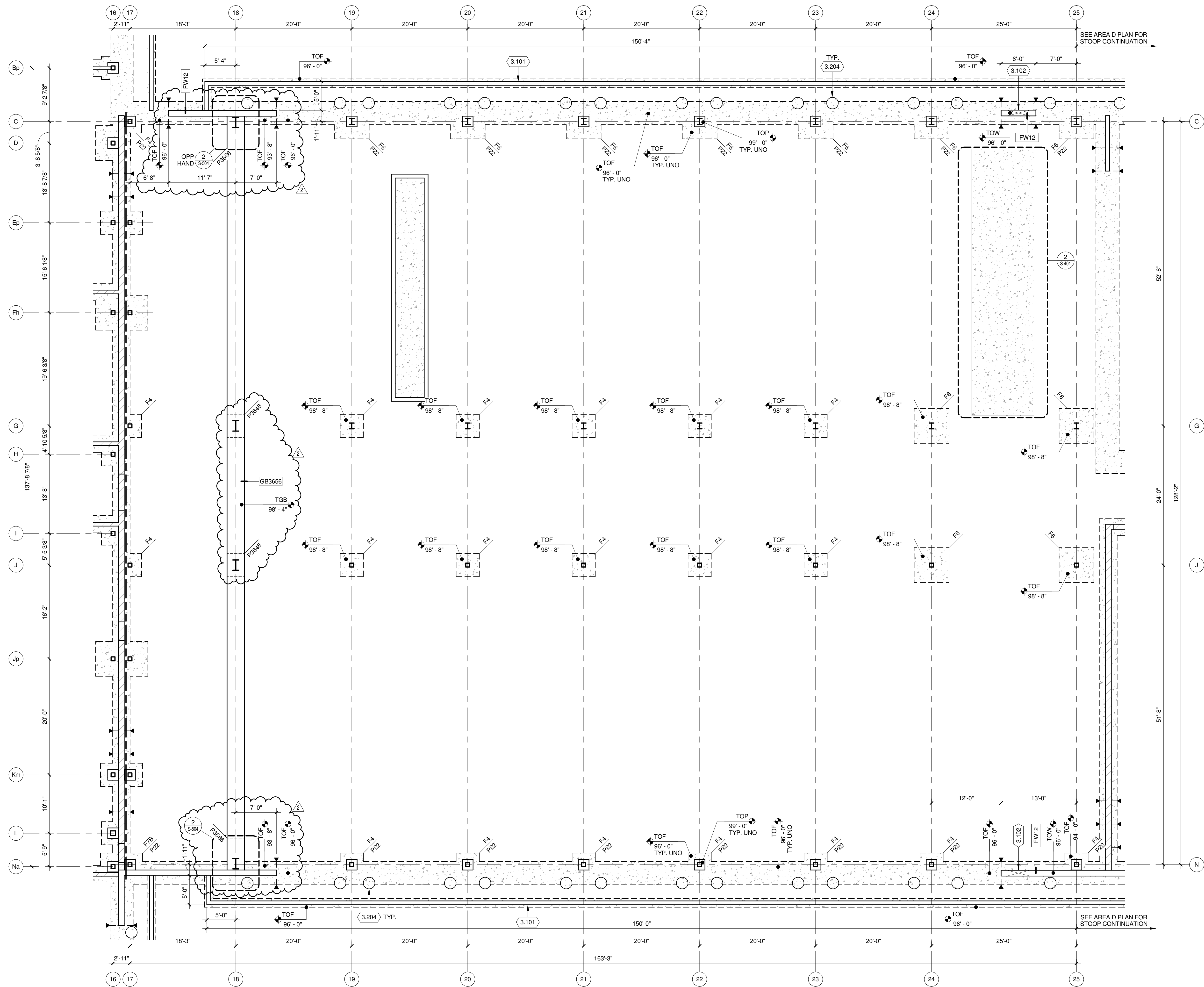
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FOUNDATION PLAN AREA C

S-101C



TRUE PLAN
NORTH NORTH



FOUNDATION PLAN AREA C
1/8" = 1'-0"

$$\frac{1}{8}'' = 1'-0''$$

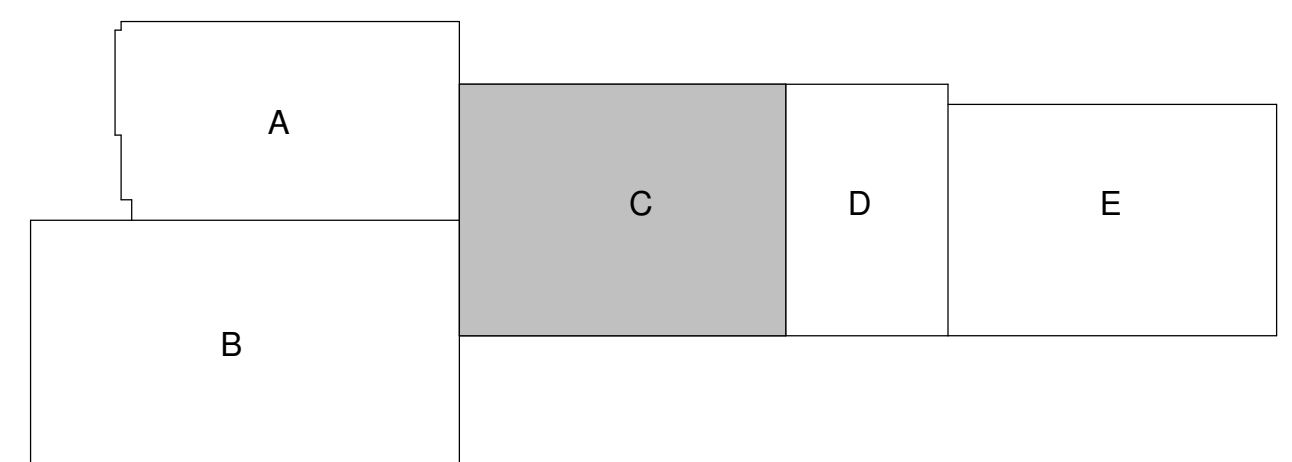
3.101 STOOP, SEE DETAIL 11/S-501

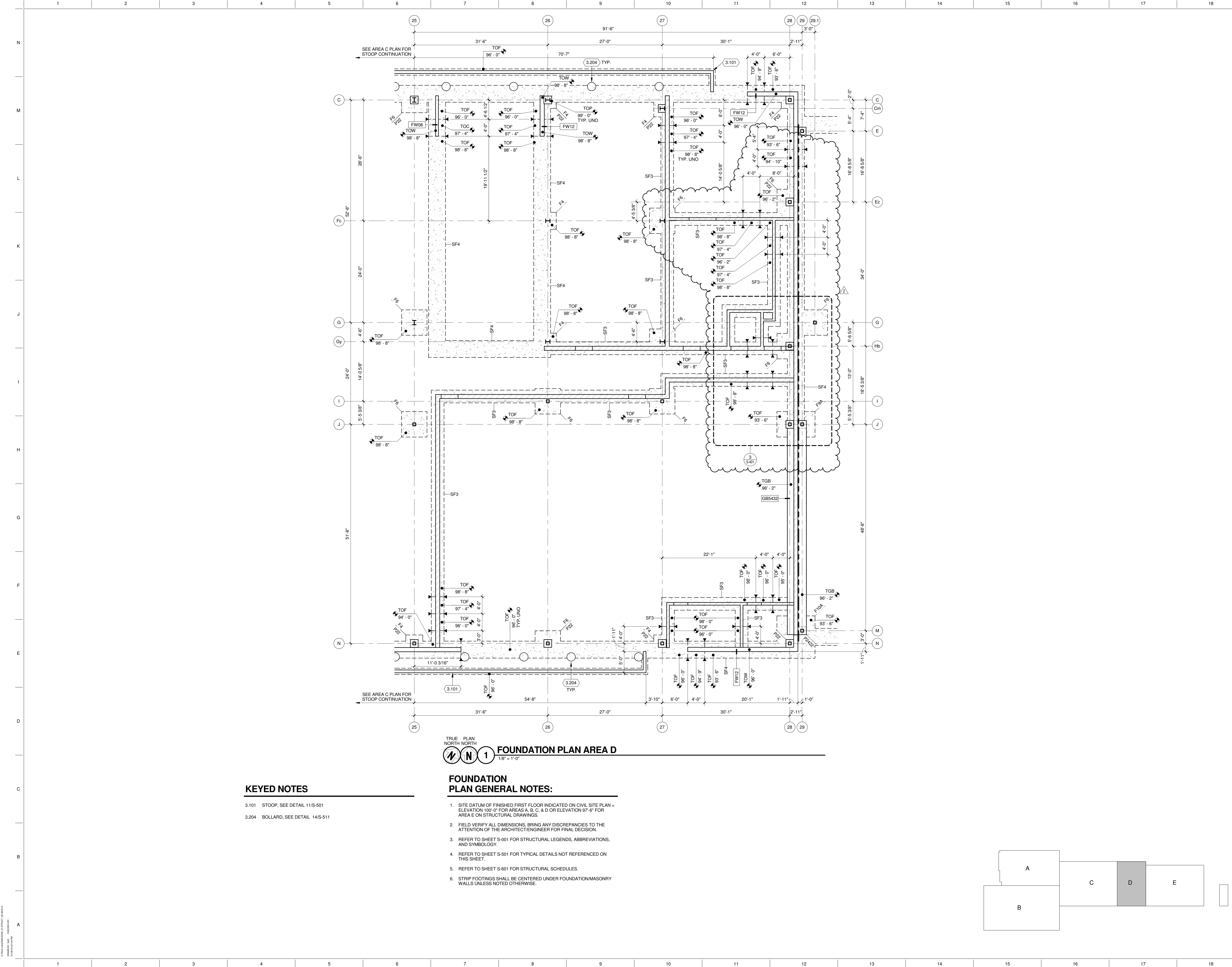
3.102 PROVIDE 1'-0" X 4'-0" OPENING IN PRECAST FOUNDATION WALL FOR TELECOMMUNICATIONS / ELECTRICAL CABLE. SEE TYPICAL DETAIL 10/S-502. COORDINATE FINAL LOCATION WITH ELECTRICAL.

3.204 BOLLARD, SEE DETAIL 14/S-511

**FOUNDATION
PLAN GENERAL NOTES:**

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-501 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLLOGY.
4. REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
6. STRIP FOOTINGS SHALL BE CENTERED UNDER FOUNDATION/MASONRY WALLS UNLESS NOTED OTHERWISE.





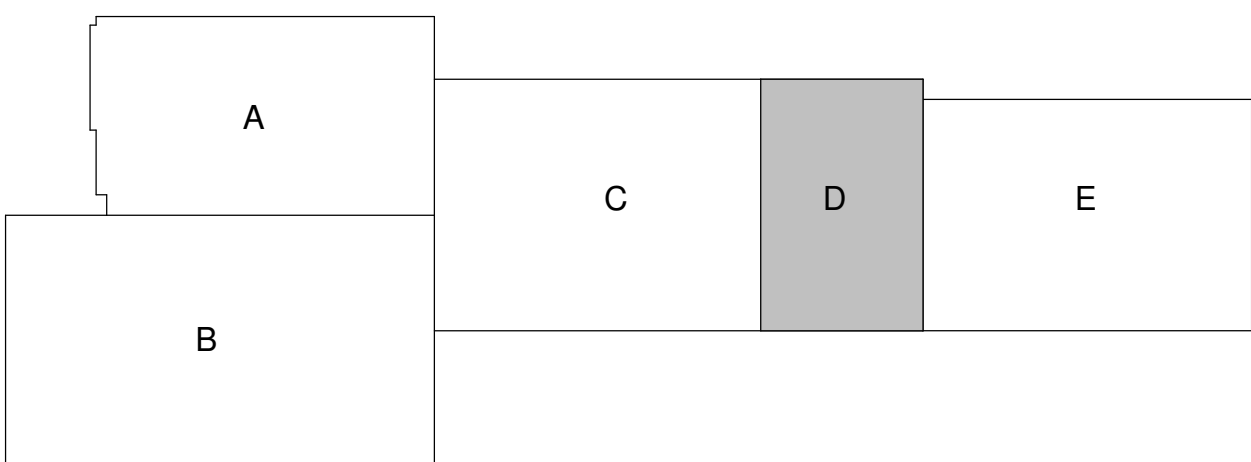
KEYED NOTES

- 3.101 STOOP, SEE DETAIL 11/S-501
- 3.204 BOLLARD, SEE DETAIL 14/S-511

FOUNDATION PLAN AREA D
1/8" = 1'-0"

FOUNDATION PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
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FOUNDATION PLAN AREA D

S-101D

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

N

M

L

K

J

I

H

G

F

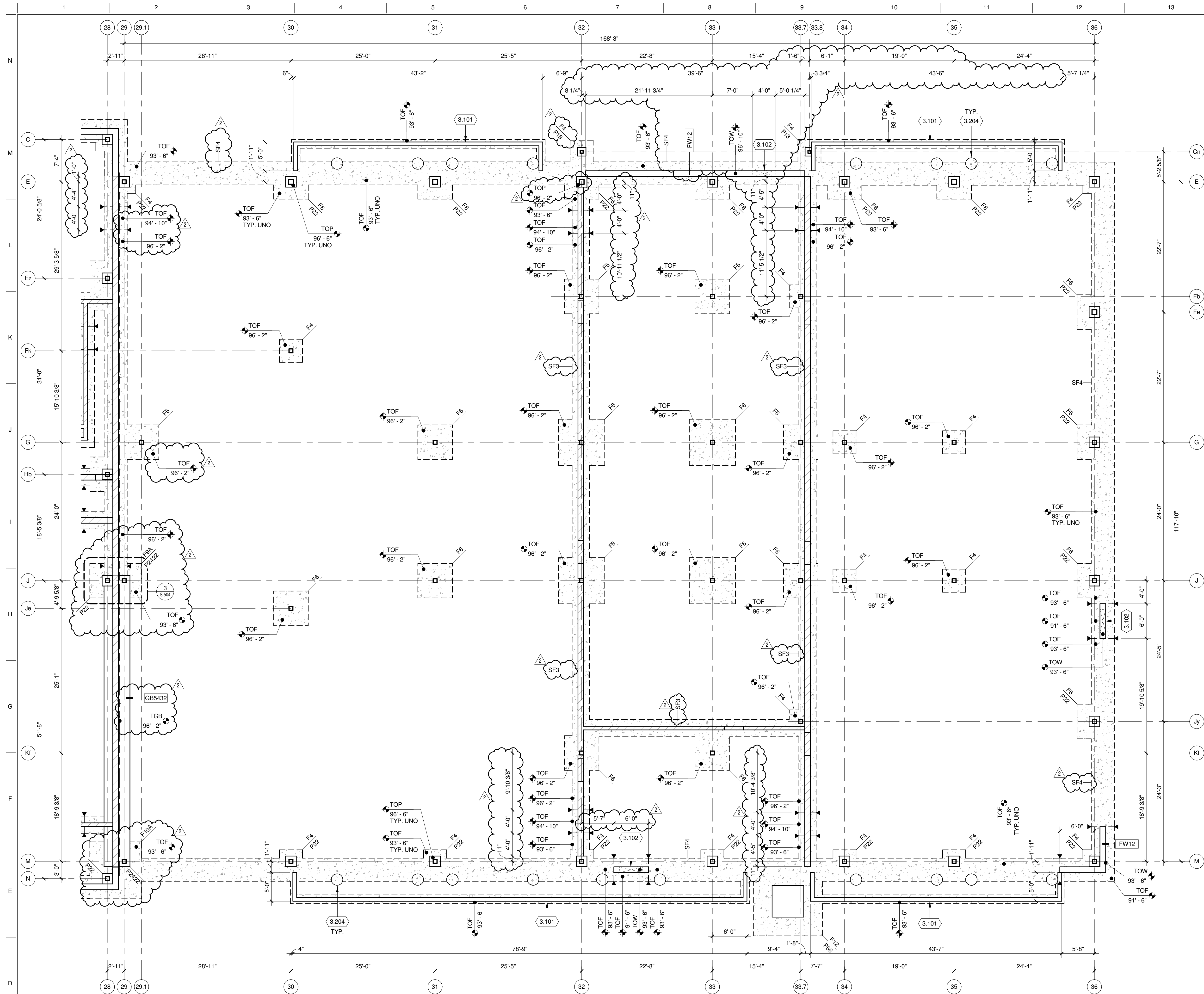
E

D

C

B

A



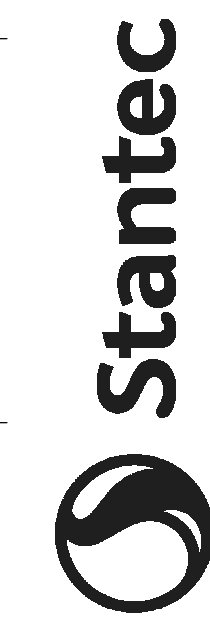
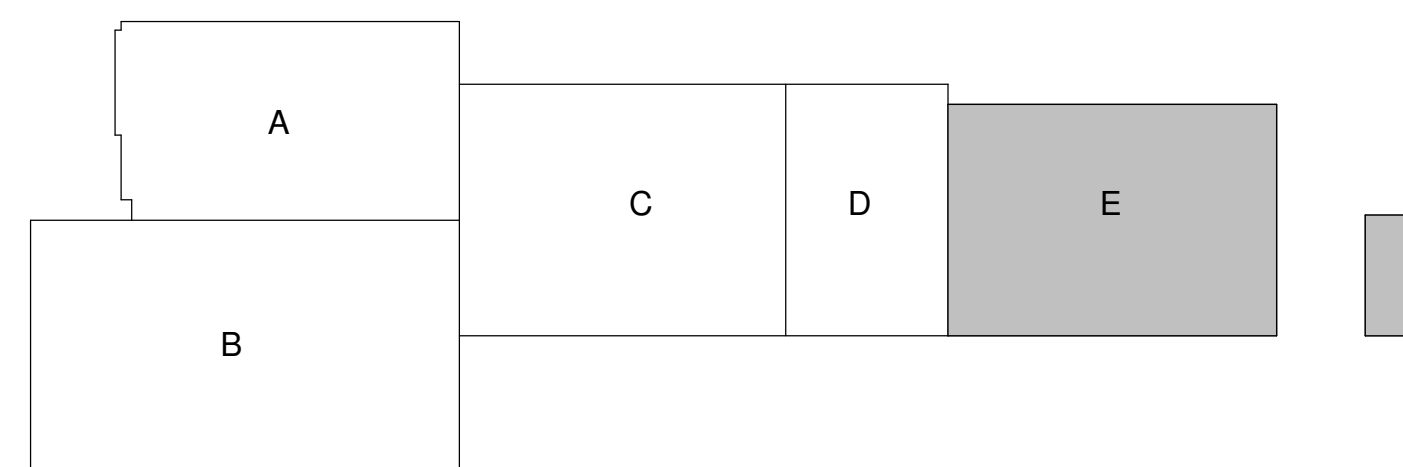
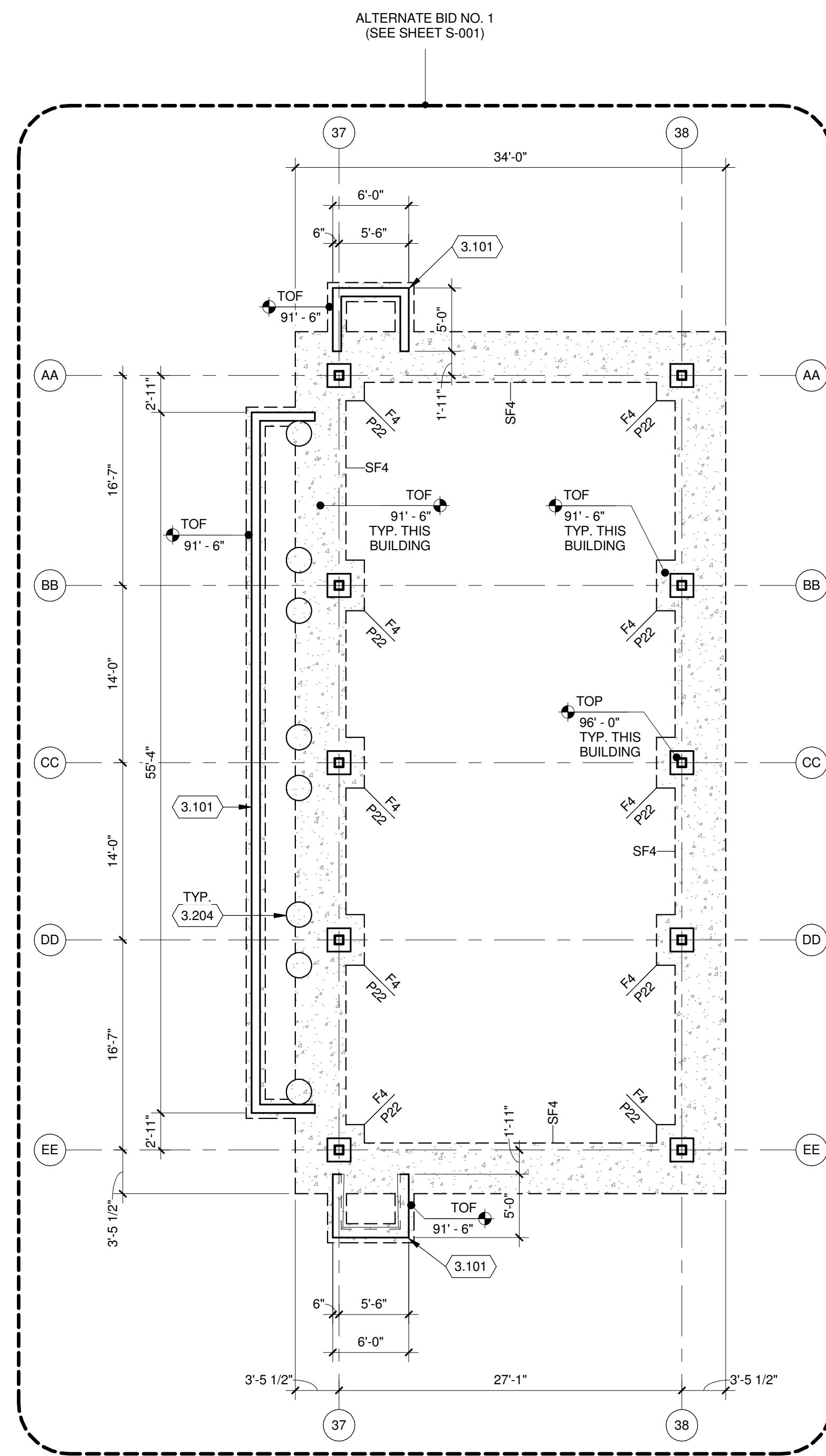
TRUE PLAN
NORTH NORTH
1 FOUNDATION PLAN AREA E
1/8" = 1'-0"

KEYED NOTES

- 3.101 STOOP, SEE DETAIL 11/S-501
- 3.102 PROVIDE 1'-0" X 4'-0" OPENING IN PRECAST FOUNDATION WALL FOR TELECOMMUNICATIONS/ELECTRICAL CABLE. SEE TYPICAL DETAIL 10/S-502. COORDINATE FINAL LOCATION WITH ELECTRICAL.
- 3.204 BOLLARD, SEE DETAIL 14/S-511

FOUNDATION PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
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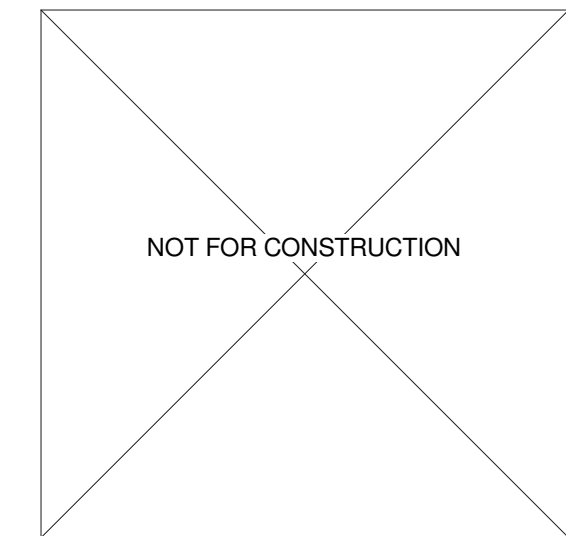


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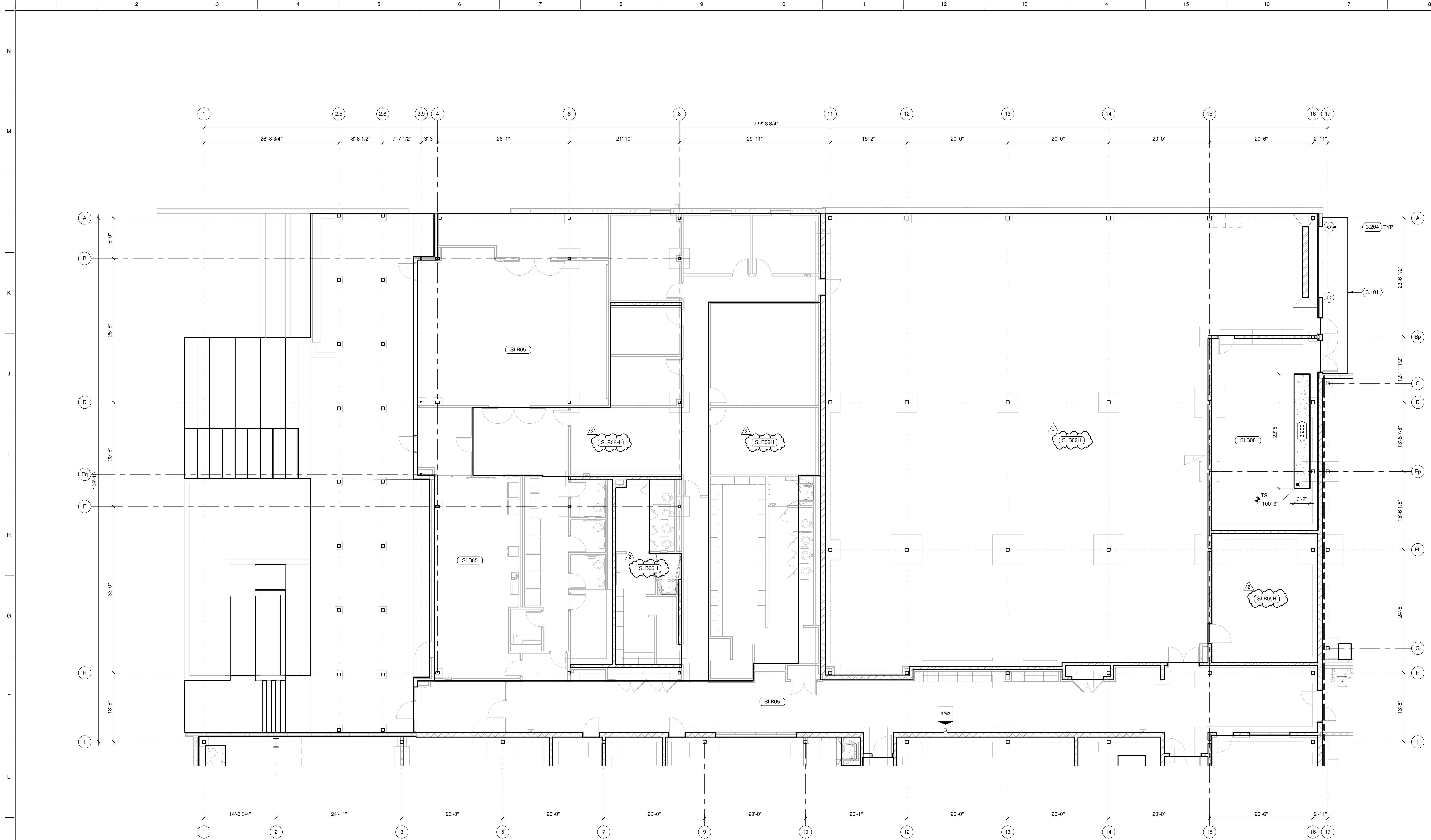
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FOUNDATION PLAN AREA E

S-101E



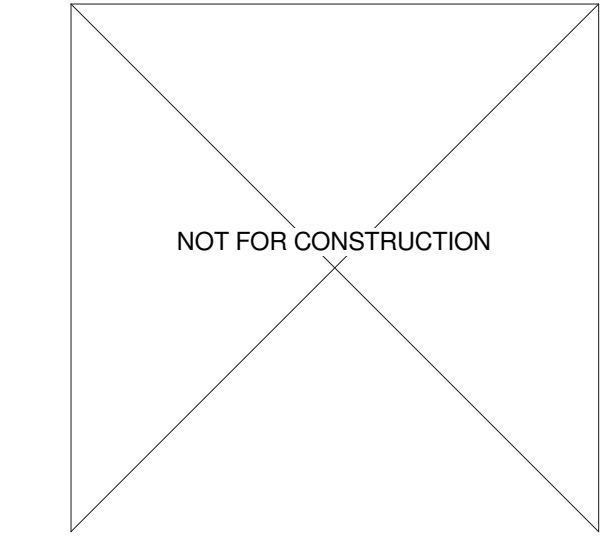
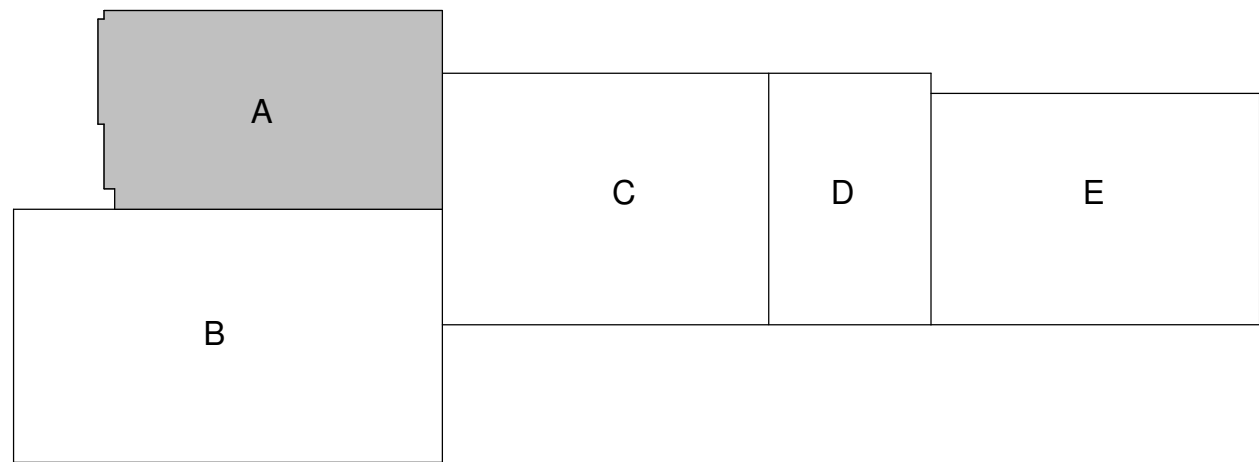
FLATWORK PLAN AREA A

KEYED NOTES

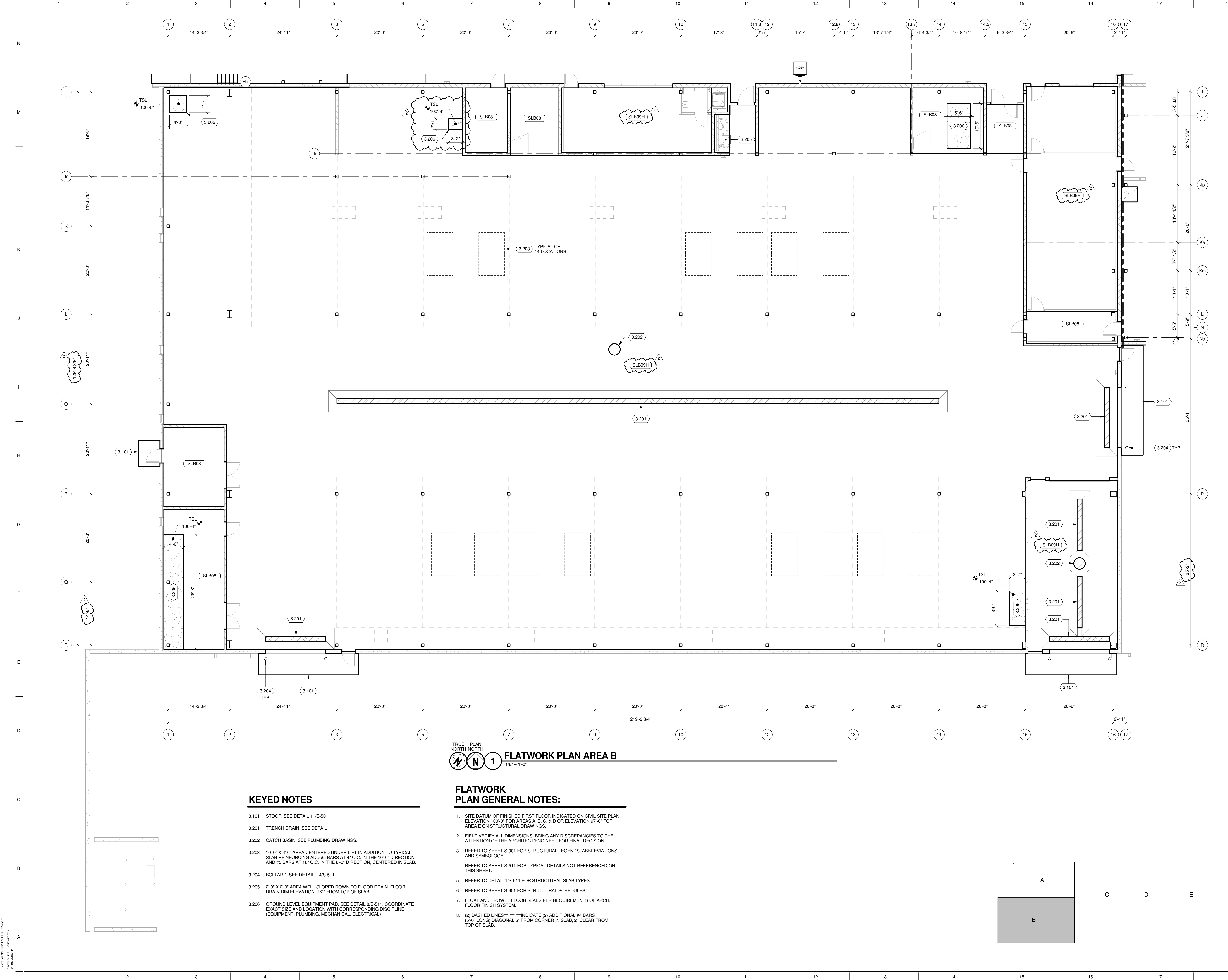
- 3.101 STOOP, SEE DETAIL 11/S-501
- 3.204 BOLLARD, SEE DETAIL 14/S-511
- 3.206 GROUND LEVEL EQUIPMENT PAD, SEE DETAIL 8/S-511. COORDINATE EXACT SIZE AND LOCATION WITH CORRESPONDING DISCIPLINE (EQUIPMENT, PLUMBING, MECHANICAL, ELECTRICAL)

FLATWORK PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
- REFER TO SHEET S-511 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- REFER TO DETAIL 1/S-511 FOR STRUCTURAL SLAB TYPES.
- REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF ARCH. FLOOR FINISH SYSTEM.
- (2) DASHED LINES == INDICATE (2) ADDITIONAL #4 BARS (5'-0" LONG) DIAGONAL 6" FROM CORNER IN SLAB, 2" CLEAR FROM TOP OF SLAB.



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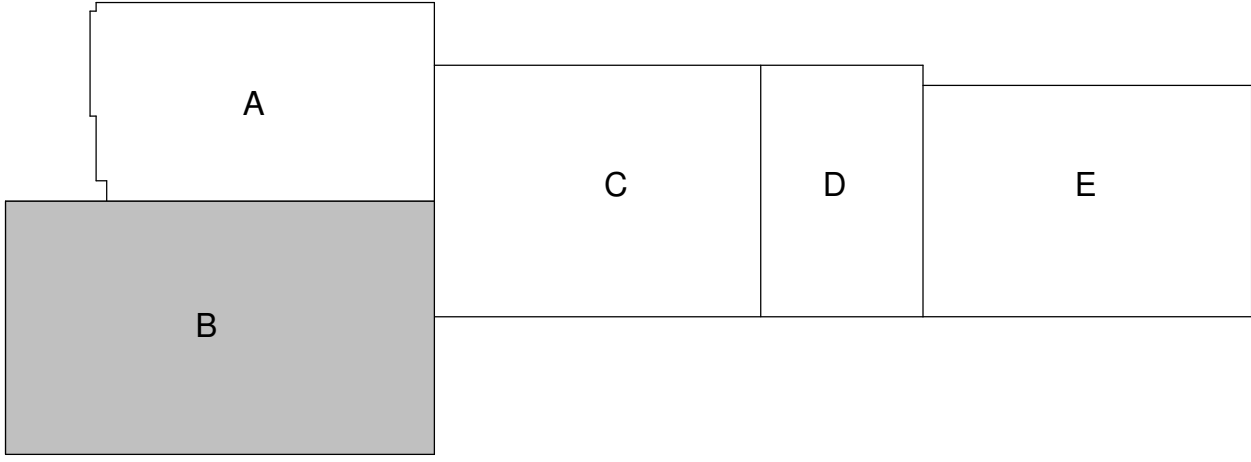
TRUE PLAN NORTH NORTH
1 FLATWORK PLAN AREA B
1/8" = 1'-0"

KEYED NOTES

- 3.101 STOOP, SEE DETAIL 11/S-501
- 3.201 TRENCH DRAIN, SEE DETAIL
- 3.202 CATCH BASIN, SEE PLUMBING DRAWINGS.
- 3.203 10'-0" X 6'-0" AREA CENTERED UNDER LIFT IN ADDITION TO TYPICAL SLAB REINFORCING ADD #5 BARS AT 4" O.C. IN THE 10'-0" DIRECTION AND #5 BARS AT 16" O.C. IN THE 6'-0" DIRECTION, CENTERED IN SLAB.
- 3.204 BOLLARD, SEE DETAIL 14/S-511
- 3.205 2'-0" X 2'-0" AREA WELL SLOPED DOWN TO FLOOR DRAIN, FLOOR DRAIN RIM ELEVATION -1/2" FROM TOP OF SLAB.
- 3.206 GROUND LEVEL EQUIPMENT PAD, SEE DETAIL 8/S-511. COORDINATE EXACT SIZE AND LOCATION WITH CORRESPONDING DISCIPLINE (EQUIPMENT, PLUMBING, MECHANICAL, ELECTRICAL)

FLATWORK PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
- REFER TO SHEET S-511 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- REFER TO DETAIL 1/S-511 FOR STRUCTURAL SLAB TYPES.
- REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF ARCH. FLOOR FINISH SYSTEM.
- (2) DASHED LINES== INDICATE (2) ADDITIONAL #4 BARS (5'-0" LONG) DIAGONAL 6" FROM CORNER IN SLAB, 2" CLEAR FROM TOP OF SLAB.



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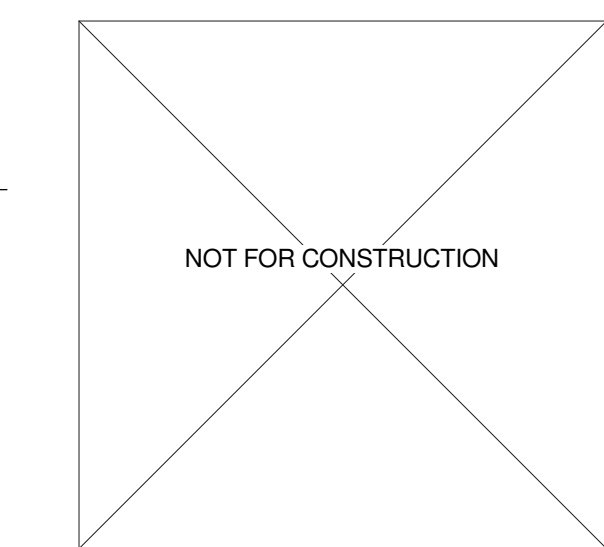
FLATWORK PLAN AREA B

S-111B



3.101	STOOP, SEE DETAIL 11/S-501
3.201	TRENCH DRAIN, SEE DETAIL
3.202	CATCH BASIN, SEE PLUMBING DRAWINGS.
3.204	BOLLARD, SEE DETAIL 14/S-511
3.205	2'-0" X 2'-0" AREA WELL SLOPED DOWN TO FLOOR DRAIN. FLOOR DRAIN RIM ELEVATION -1/2" FROM TOP OF SLAB.
3.206	GROUND LEVEL EQUIPMENT PAD, SEE DETAIL 8/S-511. COORDINATE EXACT SIZE AND LOCATION WITH CORRESPONDING DISCIPLINE (EQUIPMENT, PLUMBING, MECHANICAL, ELECTRICAL.)

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-0" FOR AREA E ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
4. REFER TO SHEET S-511 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET 1/S-511 FOR STRUCTURAL SLAB TYPES.
6. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
7. FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF ARCH. FLOOR FINISH SYSTEM.
8. (2) DASHED LINES == INDICATE (2) ADDITIONAL #4 BARS (5'-0" LONG) DIAGONAL 6" FROM CORNER IN SLAB, 2" CLEAR FROM TOP OF SLAB.



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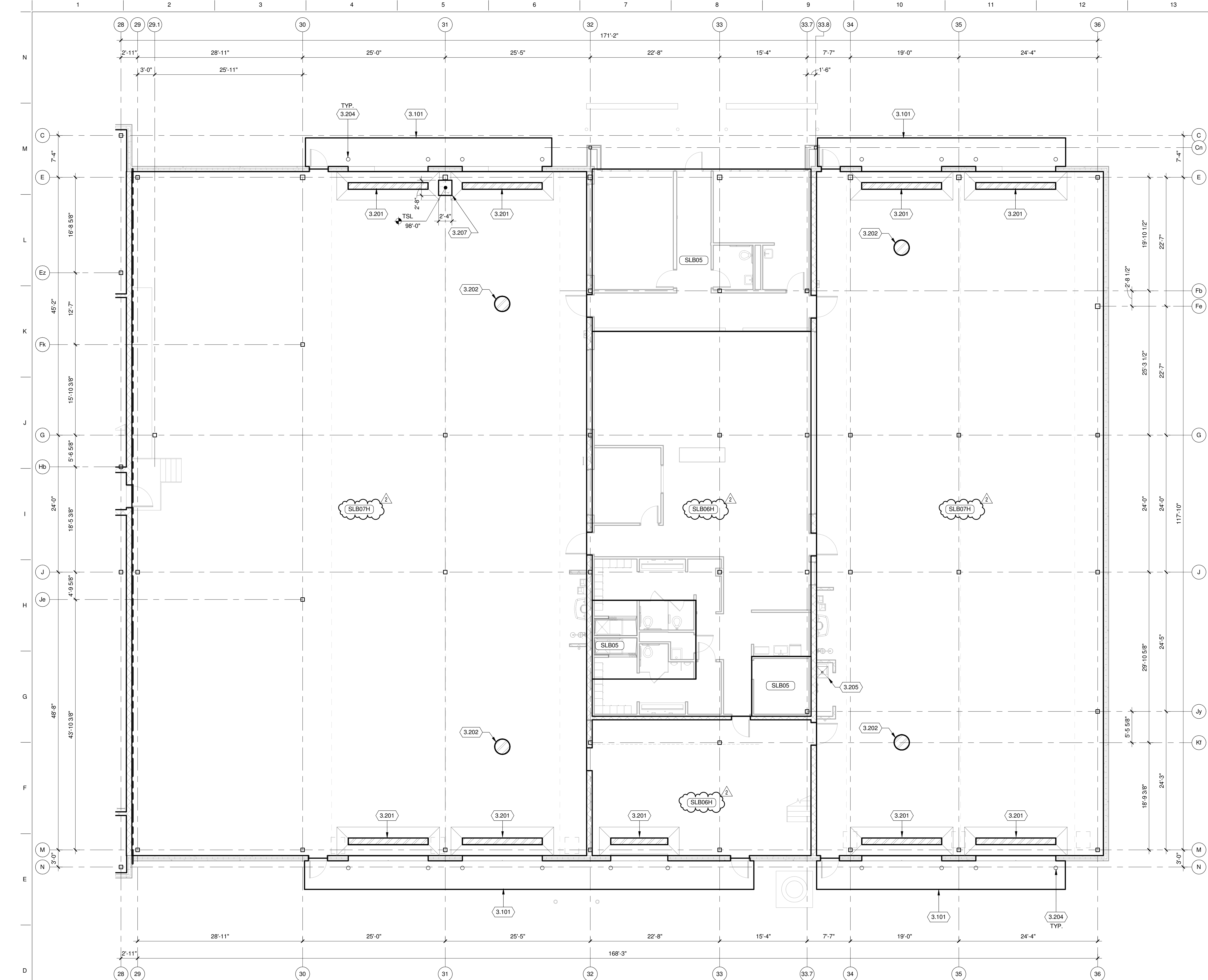
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FLATWORK PLAN AREA D

FLATWORK PLAN AREA D

S-111D



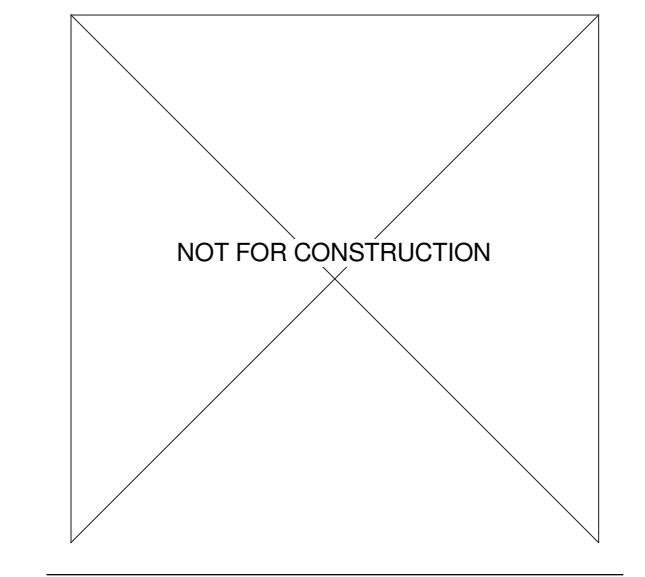
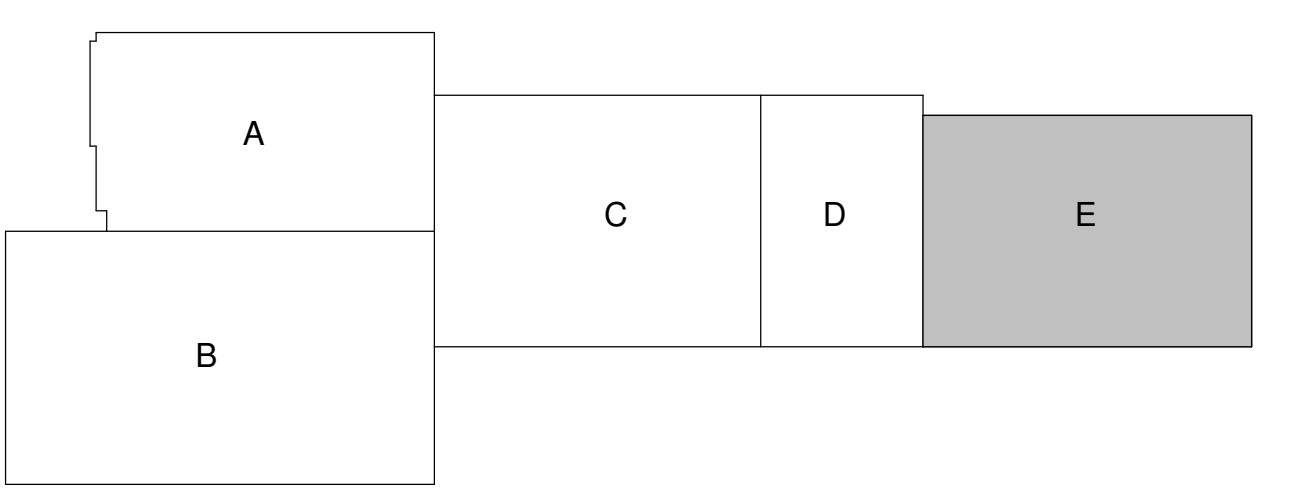
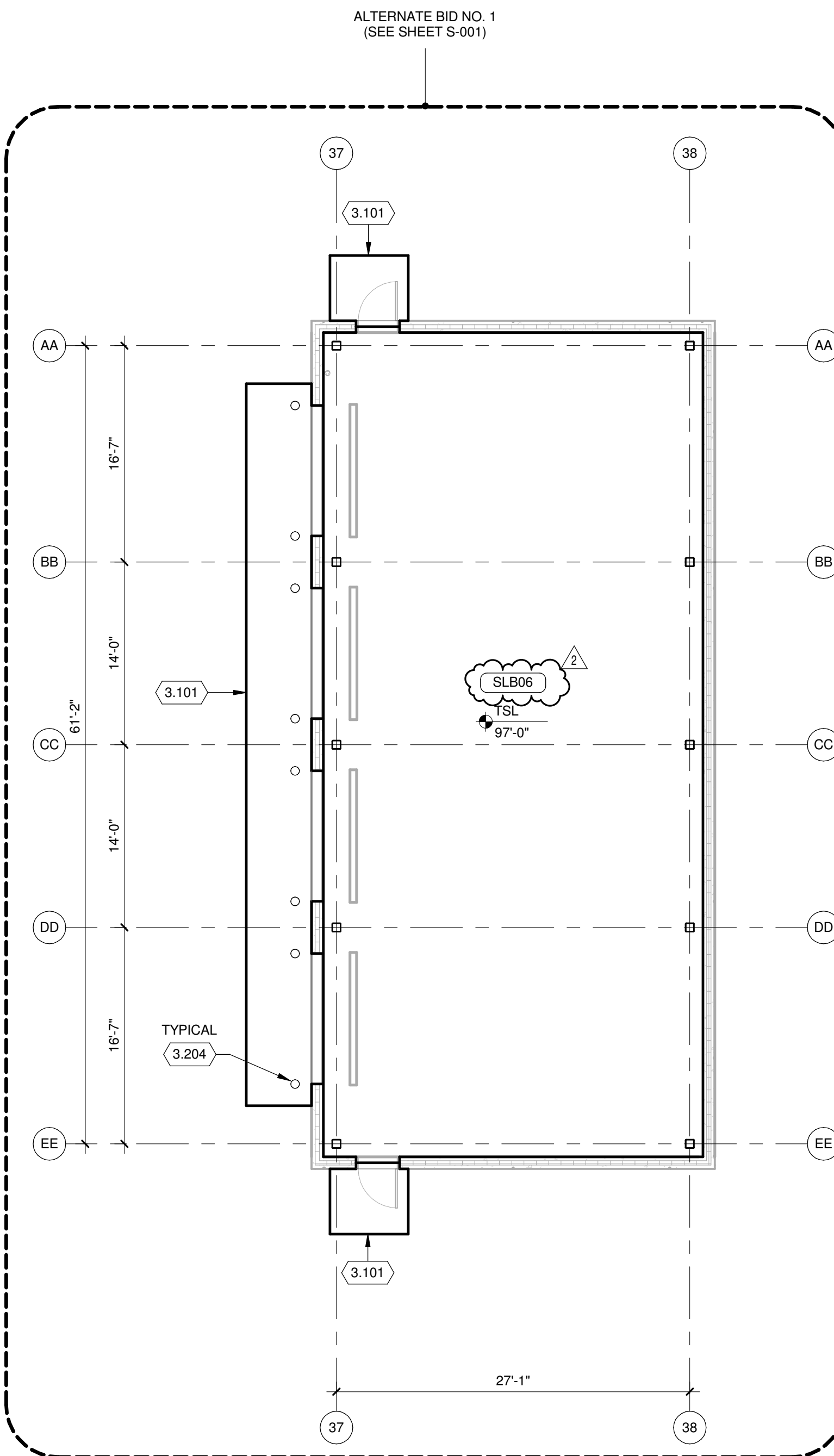
TRUE PLAN NORTH NORTH
1 FLATWORK PLAN AREA E
1/8" = 1'-0"

KEYED NOTES

- 3.101 STOOP, SEE DETAIL 11/S-501
- 3.201 TRENCH DRAIN, SEE DETAIL
- 3.202 CATCH BASIN, SEE PLUMBING DRAWINGS.
- 3.204 BOLLARD, SEE DETAIL 14/S-511
- 3.205 2'-0" X 2'-0" AREA WELL SLOPED DOWN TO FLOOR DRAIN. FLOOR DRAIN RIM ELEVATION -1/2" FROM TOP OF SLAB.
- 3.207 GROUND LEVEL EQUIPMENT PAD, SIMILAR TO DETAIL 8/S-511. ANCHOR PAD TO MAIN SLAB ON ONE SIDE OF CONTROL JOINT ONLY. INSTALL TWO LAYERS OF TAR PAPER BETWEEN MAIN SLAB AND PAD. COORDINATE EXACT SIZE AND LOCATION WITH CORRESPONDING DISCIPLINE (EQUIPMENT, PLUMBING, MECHANICAL, ELECTRICAL)

FLATWORK PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
- REFER TO SHEET S-511 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- REFER TO DETAIL 1/S-511 FOR STRUCTURAL SLAB TYPES.
- REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF ARCH. FLOOR FINISH SYSTEM.
- (2) DASHED LINES == INDICATE (2) ADDITIONAL #4 BARS (5'-0" LONG) DIAGONAL 6" FROM CORNER IN SLAB, 2" CLEAR FROM TOP OF SLAB.

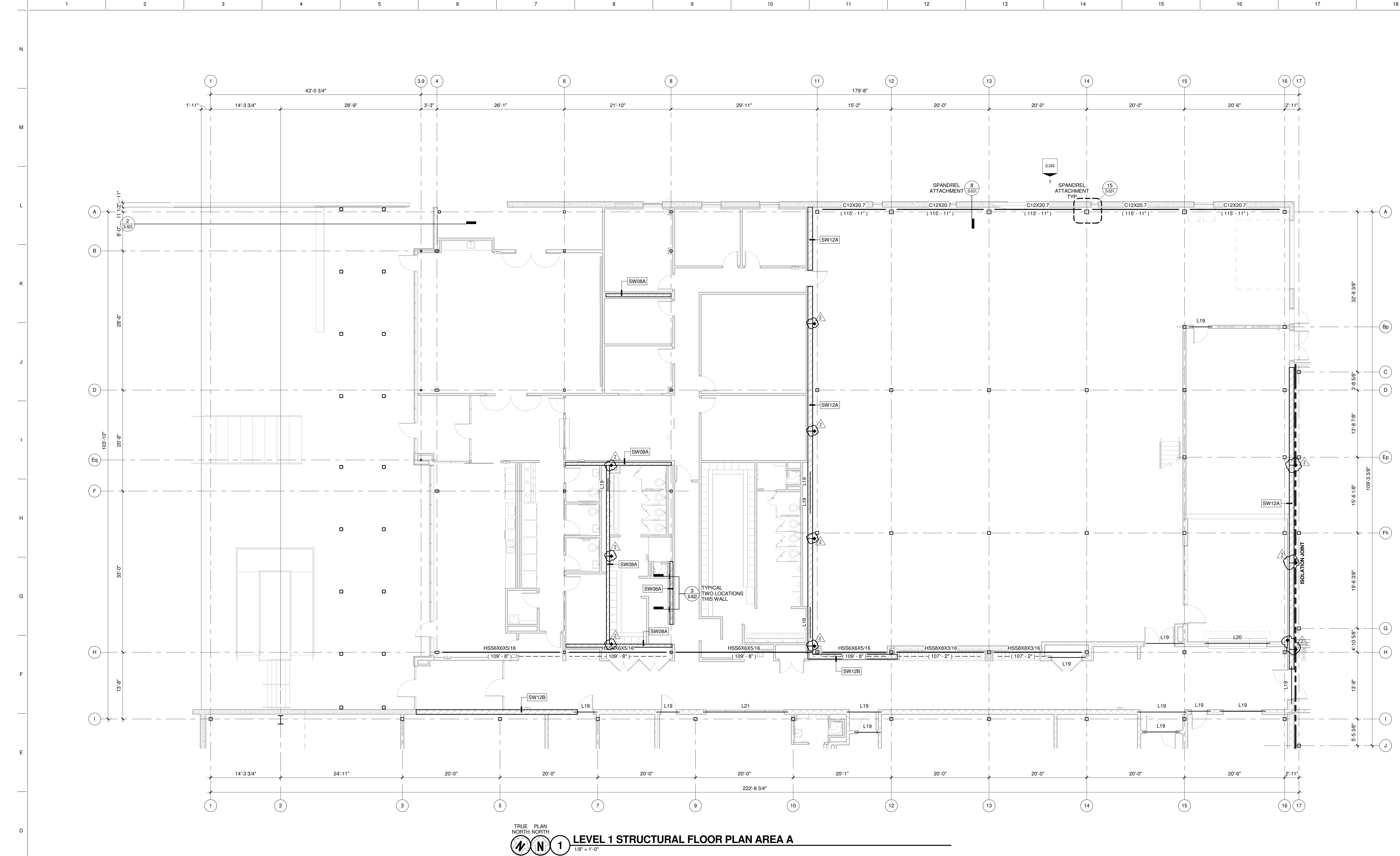


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FLATWORK PLAN AREA E

S-111E

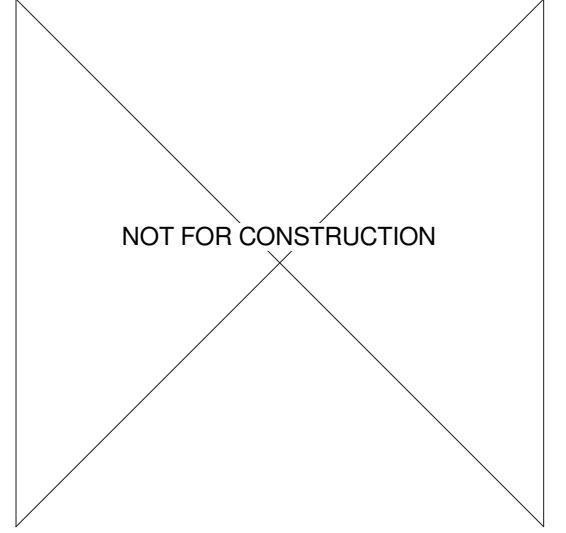
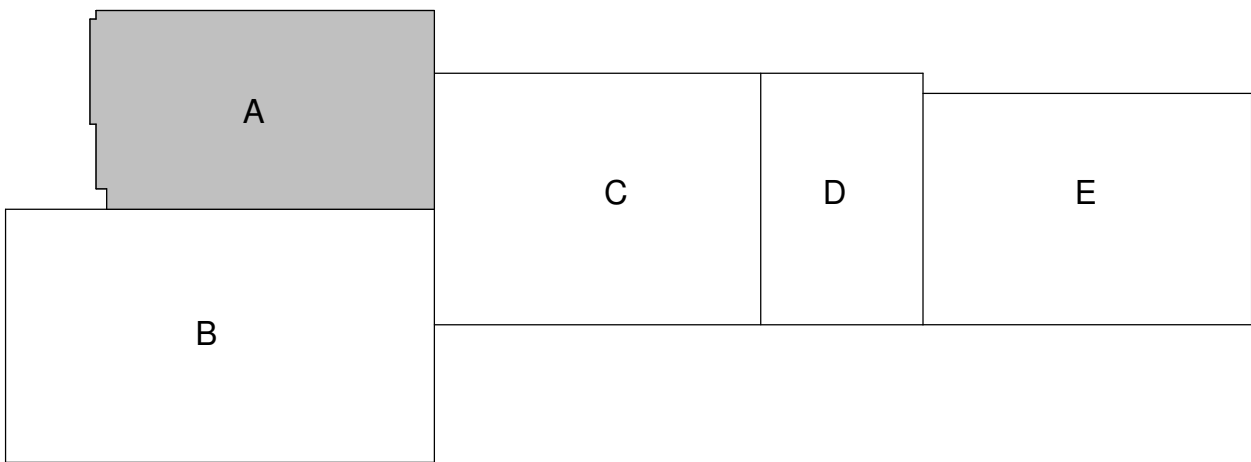


TRUE PLAN NORTH NORTH
1 LEVEL 1 STRUCTURAL FLOOR PLAN AREA A
1/8" = 1'-0"

KEYED NOTES

STRUCTURAL FLOOR PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOLOGY.
- REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- ALL 8" (NOMINAL) MASONRY WALLS SHALL BE SW08A UNLESS NOTED OR DETAILED OTHERWISE. SEE DETAIL 1/S-521 FOR STRUCTURAL WALL TYPES.
- GROUT ALL MASONRY SOLID BELOW ELEVATION 100'-0".
- ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
- STRUCTURAL WALL TYPES SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (MCJ), UNLESS NOTED OR DETAILED OTHERWISE.
- PROVIDE L19 LINTEL AT ALL MASONRY OPENINGS (NOT INDICATED) EXCEEDING 1'-0" IN WIDTH. COORDINATE WITH ALL OTHER DISCIPLINES FOR LOCATION AND SIZE OF SUCH PENETRATIONS.
- COORDINATE REQUIRED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID PENETRATION OF STRUCTURAL MEMBERS AT LINTELS, TOP OF WALL, AND ANY OTHER STRUCTURAL ELEMENTS IN THE FIELD OF THE MASONRY WALL. NOTIFY ENGINEER PRIOR TO PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALLS.
- CONTROL JOINTS IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO THE EDGE OF MASONRY OPENINGS, UNLESS NOTED OTHERWISE.
- 2 DENOTES MASONRY CONTROL JOINT. CONTROL JOINTS IN CONCRETE MASONRY WALL MAY OR MAY NOT ALIGN WITH CONTROL JOINTS IN VENEER. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR CONTROL JOINTS IN VENEER.
- CRANE RUNWAY BEAMS SHALL BE STRAIGHTENED AND FABRICATED TO CMAA 74 REQUIREMENTS FOR BRIDGE CRANE RUNWAYS.

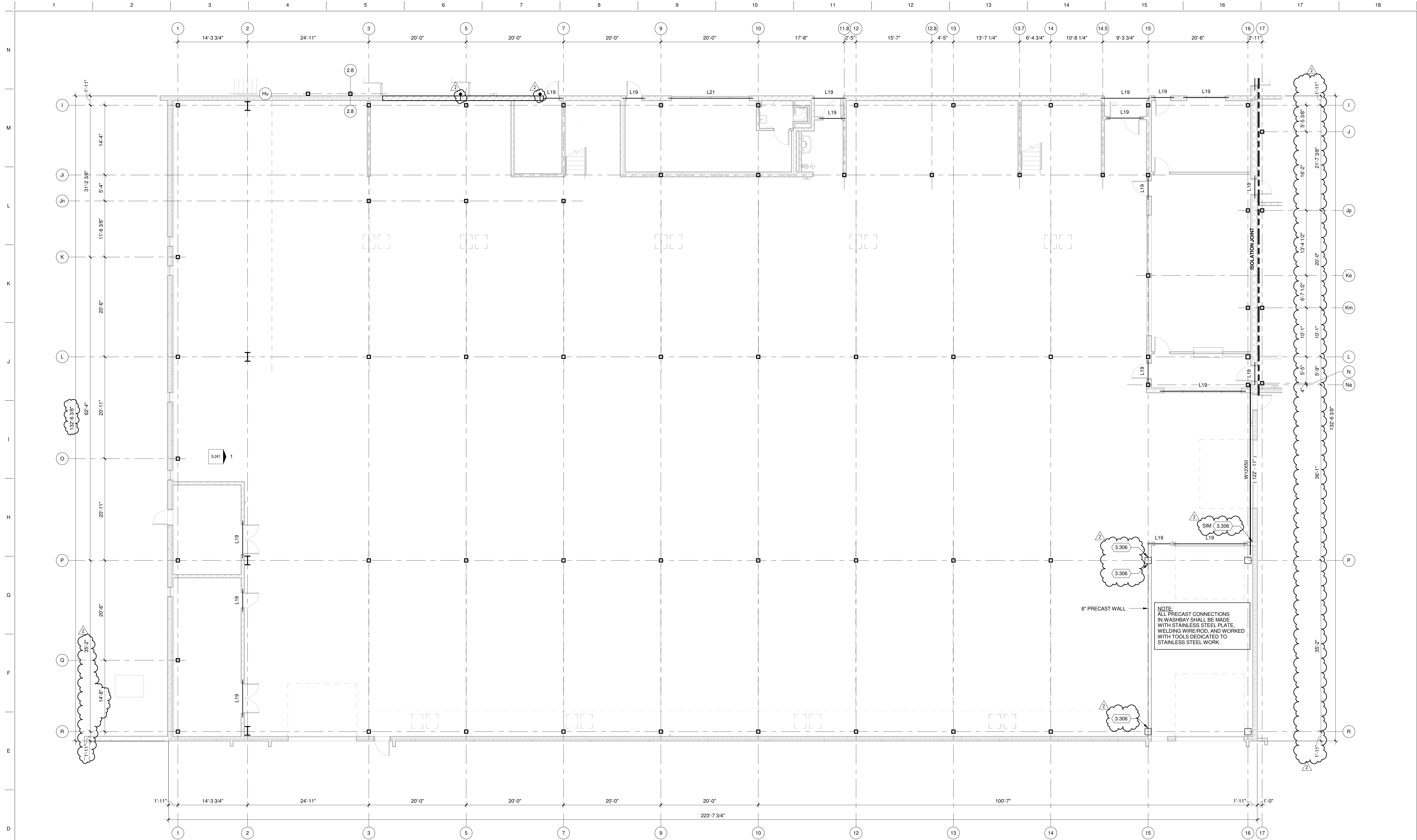


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LEVEL 1 STRUCTURAL
FLOOR PLAN AREA A

S-131A



LEVEL 1 STRUCTURAL FLOOR PLAN AREA B

1/8" = 1'-0"

KEYED NOTES

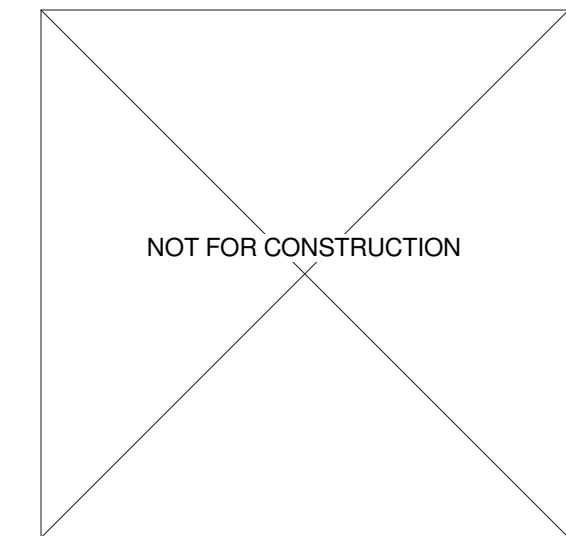
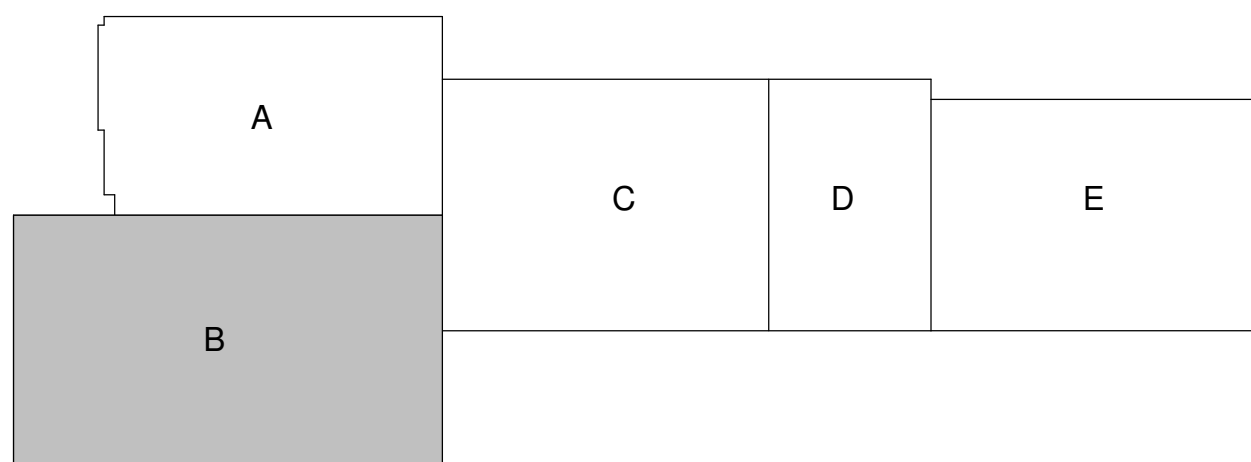
2. 3.306 CONNECTION OF PRECAST WALL TO PRECAST COLUMN BY PRECAST DESIGNER.

STRUCTURAL FLOOR PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
- REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- ALL 8" (NOMINAL) MASONRY WALLS SHALL BE SW08A UNLESS NOTED OR DETAILED OTHERWISE. SEE DETAIL 1/S-521 FOR STRUCTURAL WALL TYPES.
- GROUT ALL MASONRY SOLID BELOW ELEVATION 100'-0".
- ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
- STRUCTURAL WALL TYPES SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (MCJ), UNLESS NOTED OR DETAILED OTHERWISE.
- PROVIDE L19 LINTEL AT ALL MASONRY OPENINGS (NOT INDICATED) EXCEEDING 1'-0" IN WIDTH. COORDINATE WITH ALL OTHER DISCIPLINES FOR LOCATION AND SIZE OF SUCH PENETRATIONS.
- COORDINATE REQUIRED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID PENETRATION OF STRUCTURAL MEMBERS AT LINTELS, TOP OF WALL, AND ANY OTHER STRUCTURAL ELEMENTS IN THE FIELD OF THE MASONRY WALL. NOTIFY ENGINEER PRIOR TO PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALLS.
- CONTROL JOINTS IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO THE EDGE OF MASONRY OPENINGS, UNLESS NOTED OTHERWISE.
- ◆ DENOTES MASONRY CONTROL JOINT. CONTROL JOINTS IN CONCRETE MASONRY WALL MAY OR MAY NOT ALIGN WITH CONTROL JOINTS IN VENEER. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR CONTROL JOINTS IN VENEER.
- CRANE RUNWAY BEAMS SHALL BE STRAIGHTENED AND FABRICATED TO CMAA 74 REQUIREMENTS FOR BRIDGE CRANE RUNWAYS.

8" PRECAST WALL

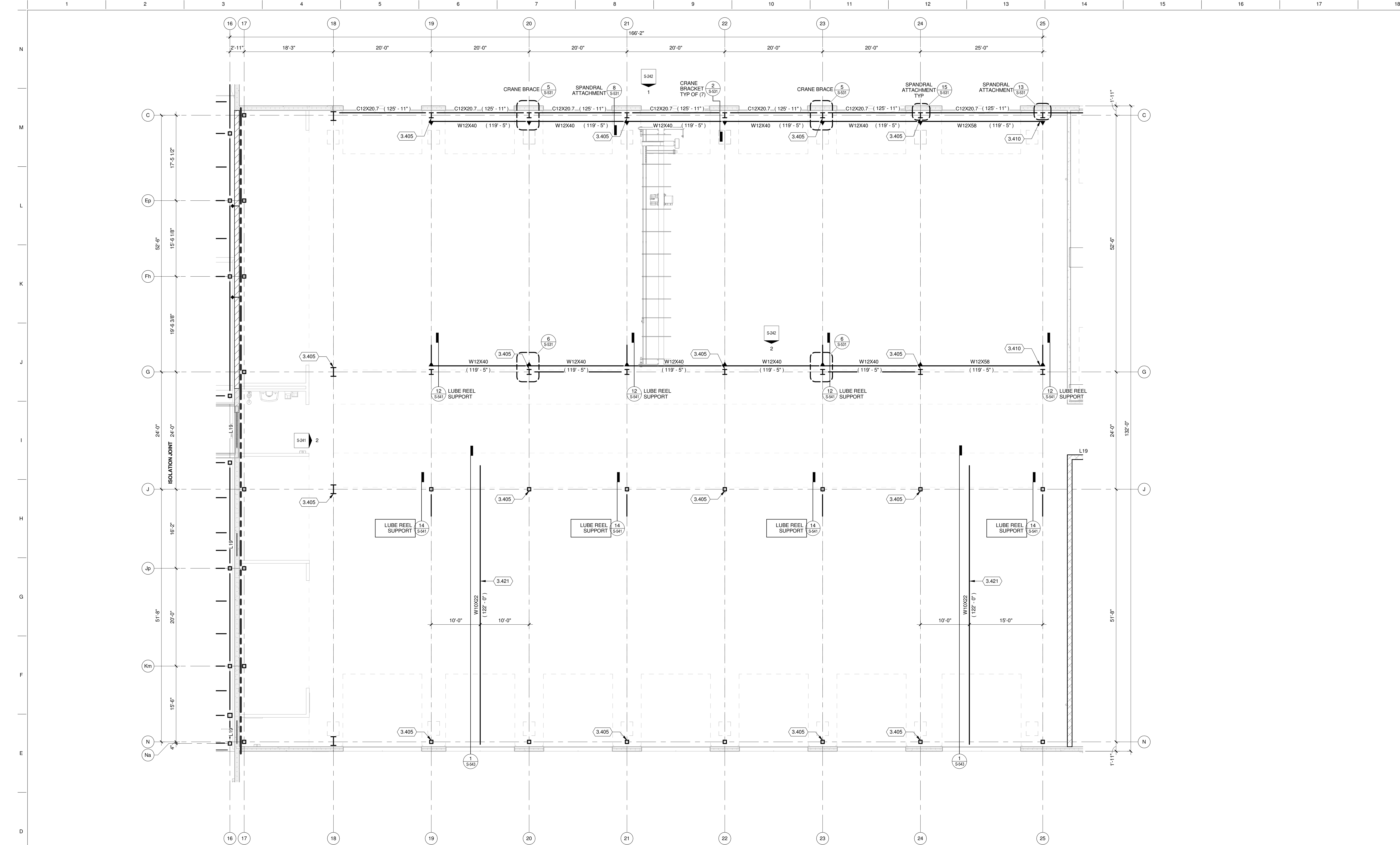
NOTE:
ALL PRECAST CONNECTIONS
IN WASHBAY SHALL BE MADE
WITH STAINLESS STEEL PLATE,
WELDING WIRE/ROD, AND WORKED
WITH TOOLS DEDICATED TO
STAINLESS STEEL WORK.



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LEVEL 1 STRUCTURAL
FLOOR PLAN AREA B

S-131B



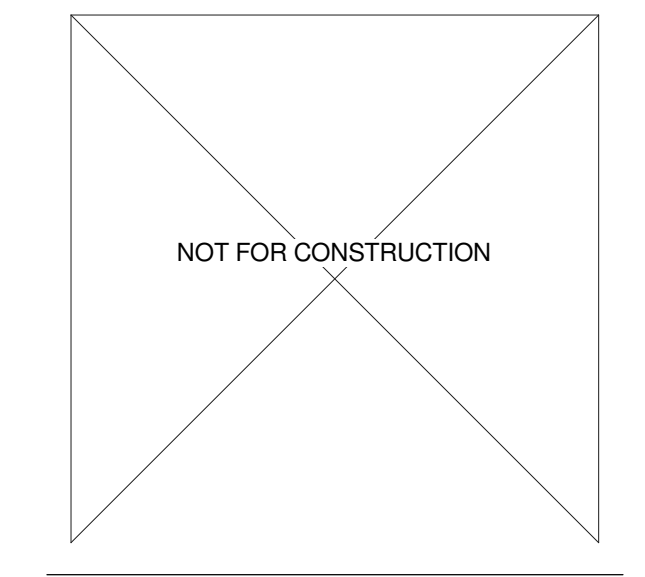
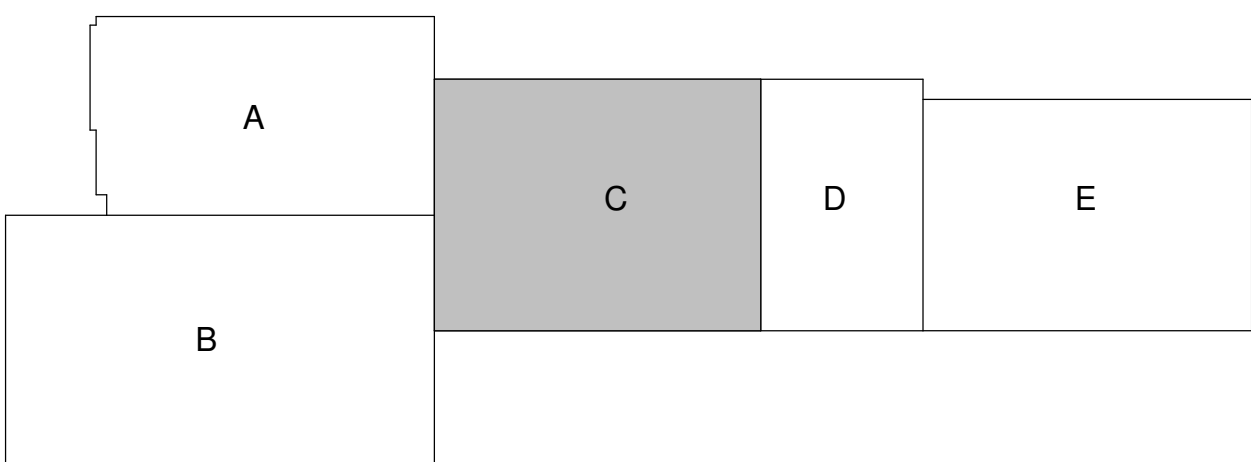
TRUE PLAN NORTH NORTH
1 LEVEL 1 STRUCTURAL FLOOR PLAN AREA C
1/8" = 1'-0"

KEYED NOTES

- 3.405 PROVIDE 3/8" THICK PLATE WELDED TO COLUMN FOR SUPPORT OF EXHAUST HOSE. COORDINATE SIZE OF PLATE AND HOLE PATTERN WITH EQUIPMENT SUPPLIED. (SEE DETAIL 2-Q-501)
- 3.410 COORDINATE CRANE STOP WITH MECHANICAL TO ENSURE CRANE DOES NOT HIT DUCTWORK.
- 3.421 FALL PROTECTION SUPPORT BEAM, SEE DETAIL 1/S-543.

STRUCTURAL FLOOR PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, E, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
- REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- ALL 8" (NOMINAL) MASONRY WALLS SHALL BE SW08A UNLESS NOTED OR DETAILED OTHERWISE. SEE DETAIL 1/S-521 FOR STRUCTURAL WALL TYPES.
- GROUT ALL MASONRY SOLID BELOW ELEVATION 100'-0".
- ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
- STRUCTURAL WALL TYPES SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (MCJ), UNLESS NOTED OR DETAILED OTHERWISE.
- PROVIDE L19 LINTEL AT ALL MASONRY OPENINGS (NOT INDICATED) EXCEEDING 1'-0" IN WIDTH. COORDINATE WITH ALL OTHER DISCIPLINES FOR LOCATION AND SIZE OF SUCH PENETRATIONS.
- COORDINATE REQUIRED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID PENETRATION OF STRUCTURAL MEMBERS AT LINTELS, TOP OF WALL, AND ANY OTHER STRUCTURAL ELEMENTS IN THE FIELD OF THE MASONRY WALL. NOTIFY ENGINEER PRIOR TO PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALLS.
- CONTROL JOINTS IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO THE EDGE OF MASONRY OPENINGS, UNLESS NOTED OTHERWISE.
- MCJ DENOTES MASONRY CONTROL JOINT. CONTROL JOINTS IN CONCRETE MASONRY WALL MAY OR MAY NOT ALIGN WITH CONTROL JOINTS IN VENEER. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR CONTROL JOINTS IN VENEER.
- CRANE RUNWAY BEAMS SHALL BE STRAIGHTENED AND FABRICATED TO CMAA 74 REQUIREMENTS FOR BRIDGE CRANE RUNWAYS.

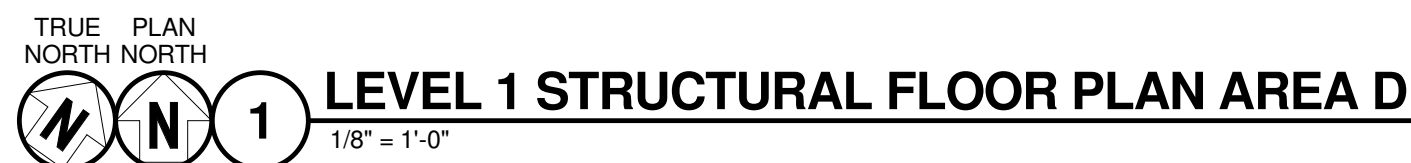


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LEVEL 1 STRUCTURAL
FLOOR PLAN AREA C

S-131C

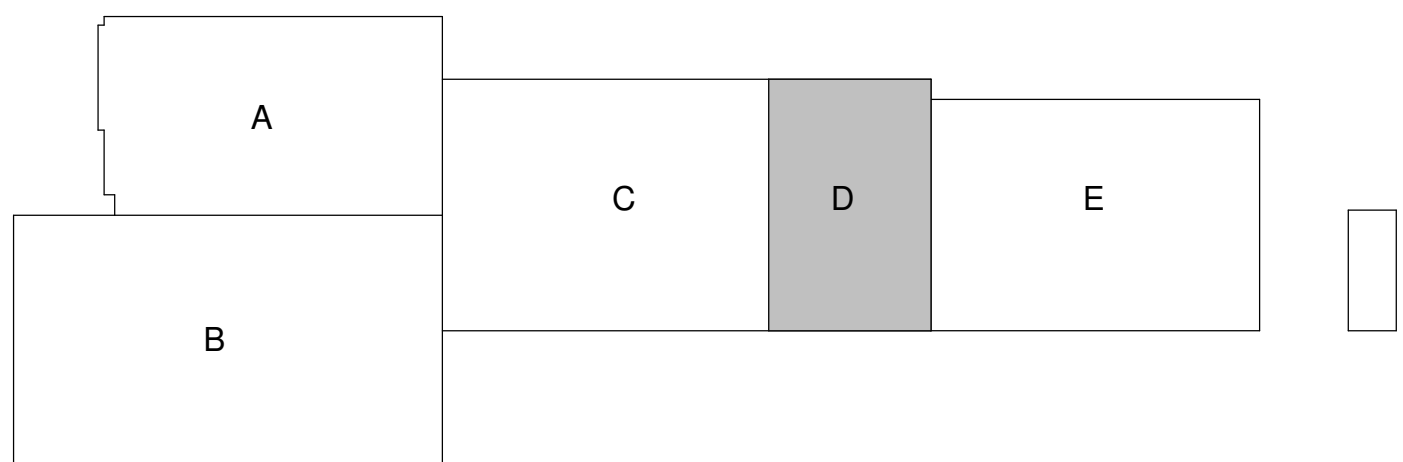


3.350 PRECAST WALL FROM ELEVATION 99'-4" TO ELEVATION 119'-6",
MASONRY WALL SW08 FROM TOP OF PRECAST PLANK AT ELEVATION
120'-6" TO ROOF DECK.

3.411 OVERHEAD DOOR WILL TURN BACK ABOVE CRANE ENVELOPE.
COORDINATE CRANE STOP LOCATION TO ENSURE CRANE DOES NOT
HIT ANY PART OF THE DOOR ASSEMBLY. DOOR MUST BE ALLOWED
TO OPEN AND CLOSE WITHOUT ANY CONTACT TO CRANE.

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLLOGY.
4. REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
6. ALL 8" (NOMINAL) MASONRY WALLS SHALL BE SW804 UNLESS NOTED OR DETAILED OTHERWISE. SEE DETAIL 1/5-21 FOR STRUCTURAL WALL TYPES.
7. GROUT ALL MASONRY SOLID BELOW ELEVATION 100'-0".
8. ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
9. STRUCTURAL WALL TYPES SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (MCJ), UNLESS NOTED OR DETAILED OTHERWISE.

10. PROVIDE 1/8" L19E AT ALL MASONRY OPENINGS (NOT INDICATED) EXCEEDING 1" IN WIDTH, COORDINATE WITH ALL OTHER DISCIPLINES FOR LOCATION AND SIZE OF PENETRATIONS.
11. COORDINATE REQUIRED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID PENETRATION OF STRUCTURAL MEMBERS AT JOINTS, TOP OF WALL, AND ANY OTHER STRUCTURAL ELEMENTS IN THE FIELD OF THE MASONRY. VERIFY PENETRATION PRIOR TO PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALL.
12. CONTROL JOINTS IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO THE EDGE OF MASONRY OPENINGS, UNLESS NOTED OTHERWISE.
13.  DEVOTES MASONRY CONTROL JOINT.
14. CONTROL JOINTS IN CONCRETE MASONRY WALL OR MAY OR MAY NOT ALIGN WITH CONTROL JOINTS IN VENEER. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR CONTROL JOINTS IN VENEER.
15. CRANE RUNWAY BEAMS SHALL BE STRAIGHTENED AND FABRICATED TO REQUIRE CRANE RUNWAY.



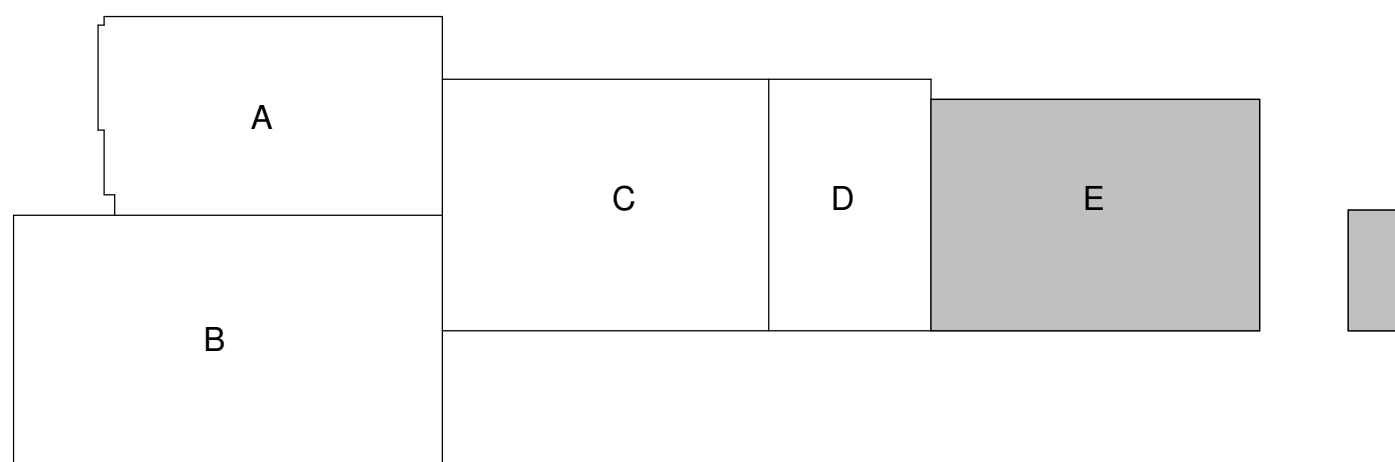
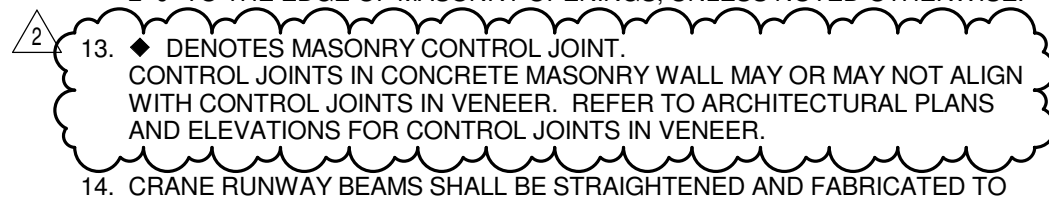


$1/8'' = 1'-0''$

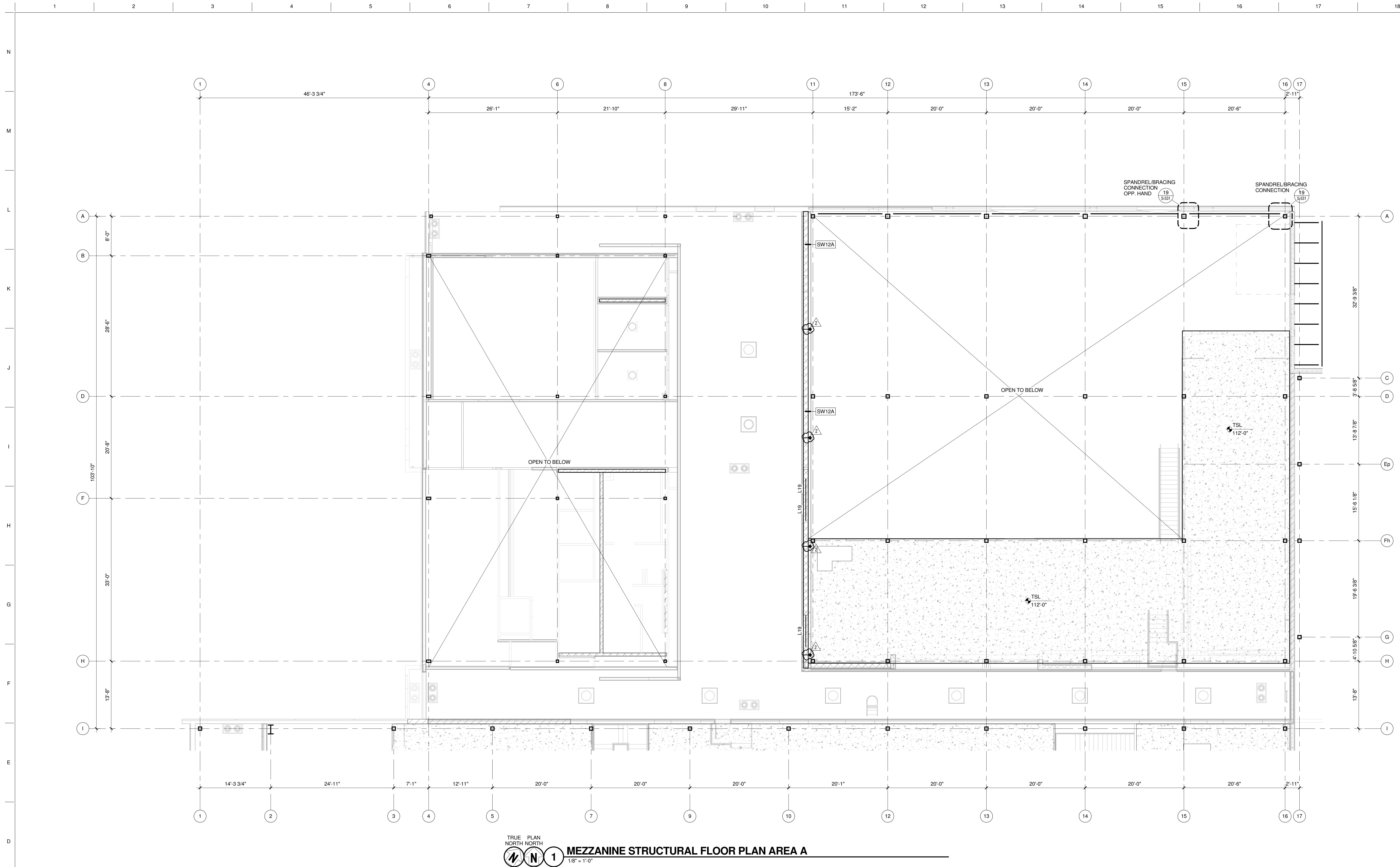
3.304 PRECAST SUPPLIER PROVIDE 1'-0" HIGH X 4'-0 WIDE OPENING IN PRECAST WALL PANEL BELOW FLOOR LEVEL FOR ELECTRICAL/TECHNOLOGY CONDUIT BANK. COORDINATE EXACT SIZE AND LOCATION WITH ELECTRICAL/TECHNOLOGY.

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLLOGY.
4. REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
6. ALL 6" (NOMINAL) MASONRY WALLS SHALL BE SW08A UNLESS NOTED OR DETAILED OTHERWISE. SEE DETAIL 1/S-521 FOR STRUCTURAL WALL TYPES.
7. GROUT ALL MASONRY SOLID BELOW ELEVATION 100'-0".
8. ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
9. STRUCTURAL WALL CONTROL JOINTS SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (MCJ), UNLESS NOTED OR DETAILED OTHERWISE.

16. PROVIDE L91 UNIL AT ALL MASONRY OPENINGS (NOT INDICATED) EXCEEDING 1/8" IN WIDTH. COORDINATE WITH ALL OTHER DISCIPLINES FOR PENETRATION OF MASONRY.
17. COORDINATE REQUIRED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID PENETRATION OF STRUCTURAL MEMBERS AT UNILS, TOP OF WALL, AND ANY OTHER STRUCTURAL ELEMENTS IN WALL. COORDINATE WITH ALL OTHER DISCIPLINES FOR PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALL.
18. CONTROL Joints IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO THE EDGE OF MASONRY OPENING. NOT EXCEPTED OTHERWISE.
19. CONTROL Joints IN CONCRETE MASONRY WALL MAY OR MAY NOT ALIGN WITH CONTROL Joints IN VENEER. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR CONTROL Joints IN VENEER.
20. CRANE RUNWAY BEAMS SHALL BE STRAIGHTENED AND FABRICATED TO MEET ALL REQUIREMENTS.



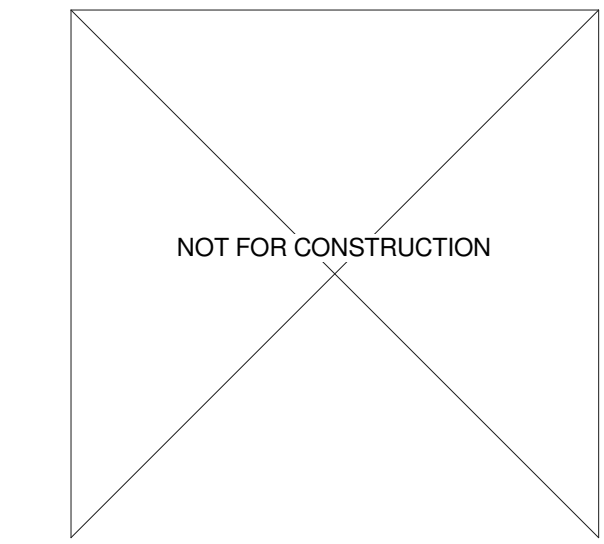
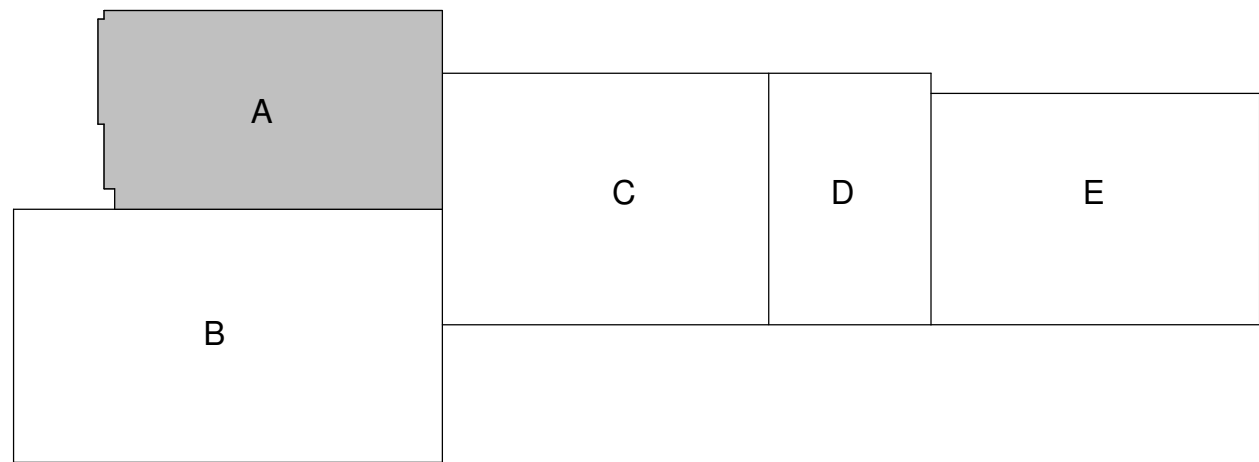
2	ADDENDUM 2	03/05/2019
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KEYED NOTES

STRUCTURAL FLOOR PLAN GENERAL NOTES:

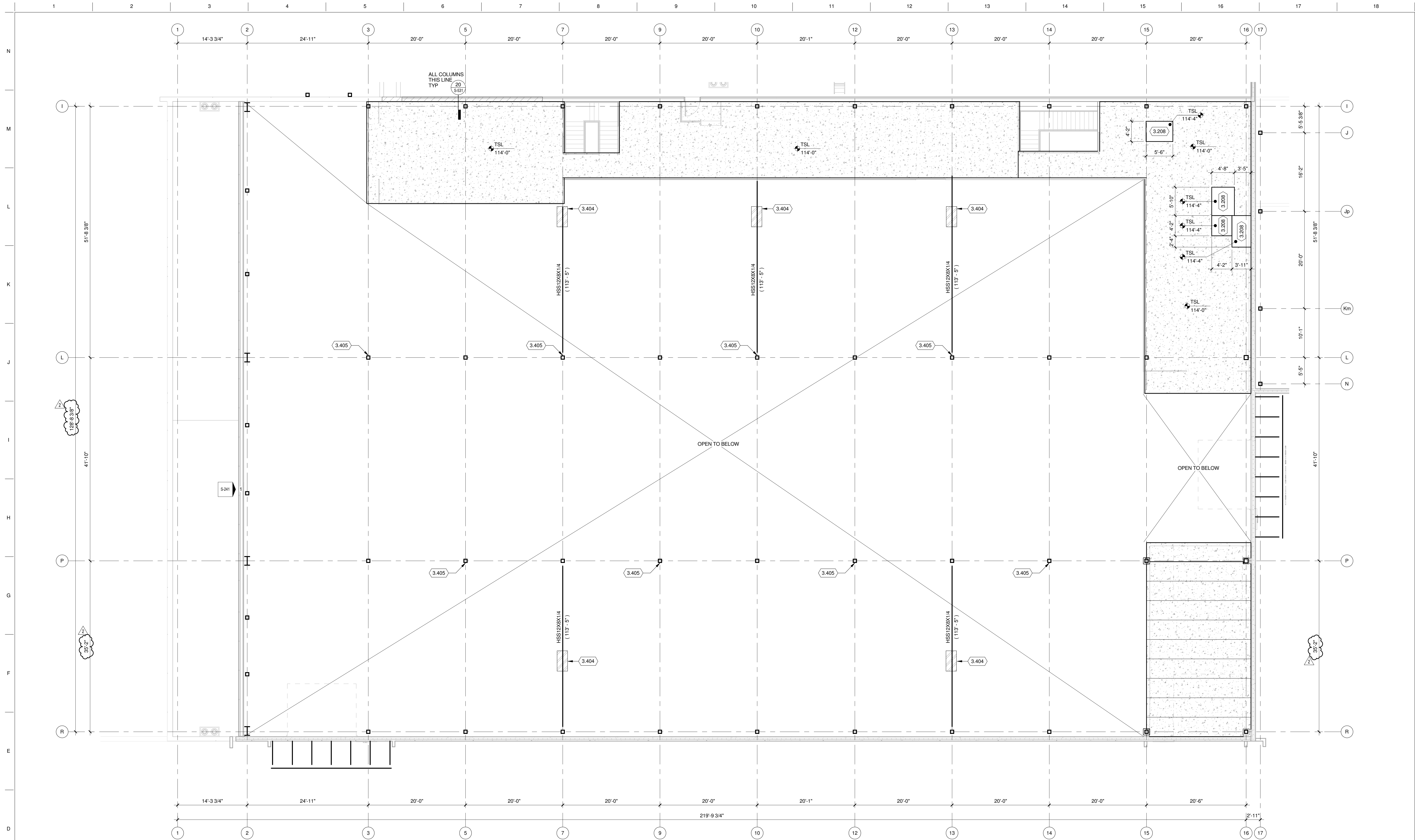
- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
- REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- ALL 8" (NOMINAL) MASONRY WALLS SHALL BE SW08A UNLESS NOTED OR DETAILED OTHERWISE. SEE DETAIL 1/S-521 FOR STRUCTURAL WALL TYPES.
- GROUT ALL MASONRY SOLID BELOW ELEVATION 100'-0".
- ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
- STRUCTURAL WALL TYPES SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (MCJ), UNLESS NOTED OR DETAILED OTHERWISE.
- PROVIDE L19 LINTEL AT ALL MASONRY OPENINGS (NOT INDICATED) EXCEEDING 1'-0" IN WIDTH. COORDINATE WITH ALL OTHER DISCIPLINES FOR LOCATION AND SIZE OF SUCH PENETRATIONS.
- COORDINATE REQUIRED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID PENETRATION OF STRUCTURAL MEMBERS AT LINTELS, TOP OF WALL, AND ANY OTHER STRUCTURAL ELEMENTS IN THE FIELD OF THE MASONRY WALL. NOTIFY ENGINEER PRIOR TO PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALLS.
- CONTROL JOINTS IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO THE EDGE OF MASONRY OPENINGS, UNLESS NOTED OTHERWISE.
- ◆ DENOTES MASONRY CONTROL JOINT. CONTROL JOINTS IN CONCRETE MASONRY WALL MAY OR MAY NOT ALIGN WITH CONTROL JOINTS IN VENEER. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR CONTROL JOINTS IN VENEER.
- CRANE RUNWAY BEAMS SHALL BE STRAIGHTENED AND FABRICATED TO CMAA 74 REQUIREMENTS FOR BRIDGE CRANE RUNWAYS.



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MEZZANINE STRUCTURAL FLOOR PLAN AREA A

S-132A



MEZZANINE STRUCTURAL FLOOR PLAN AREA B

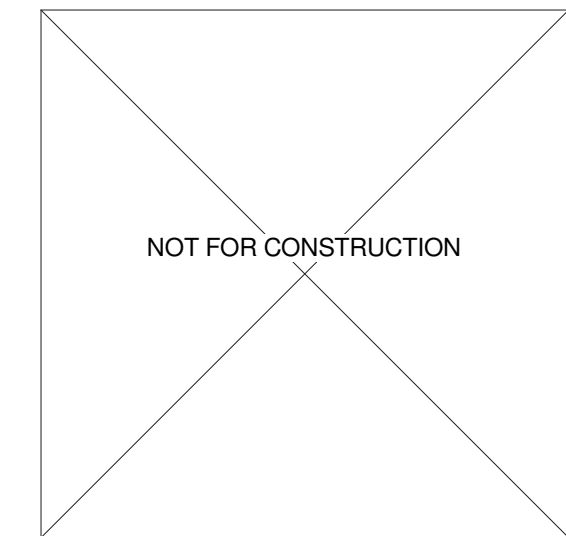
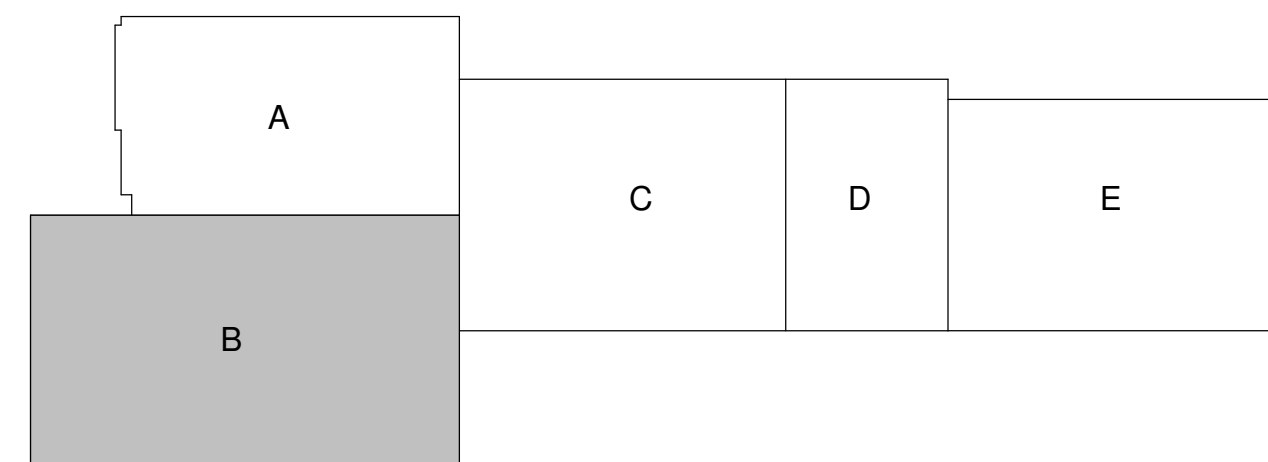
1/8\" = 1'-0"

KEYED NOTES

- 3.208 MEZZANINE LEVEL EQUIPMENT PAD, SEE DETAIL 10/S-511. COORDINATE EXACT SIZE AND LOCATION WITH CORRESPONDING DISCIPLINE (EQUIPMENT, PLUMBING, MECHANICAL, ELECTRICAL).
- 3.404 PROVIDE 3/8\" THICK PLATE WELDED TO HSS BEAM FOR SUPPORT OF LUBE REEL. COORDINATE SIZE OF PLATE AND HOLE PATTERN WITH EQUIPMENT SUPPLIED.
- 3.405 PROVIDE 3/8\" THICK PLATE WELDED TO COLUMN FOR SUPPORT OF EXHAUST HOSE. COORDINATE SIZE OF PLATE AND HOLE PATTERN WITH EQUIPMENT SUPPLIED. (SEE DETAIL 2/Q-501)

STRUCTURAL FLOOR PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0\" FOR AREAS A, B, C, & D OR ELEVATION 97'-6\" FOR AREA E ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
- REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- ALL 8\" (NOMINAL) MASONRY WALLS SHALL BE SW08A UNLESS NOTED OR DETAILED OTHERWISE. SEE DETAIL 1/S-521 FOR STRUCTURAL WALL TYPES.
- GROUT ALL MASONRY SOLID BELOW ELEVATION 100'-0\".
- ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
- STRUCTURAL WALL TYPES SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (MCJ), UNLESS NOTED OR DETAILED OTHERWISE.
- PROVIDE L19 LINTEL AT ALL MASONRY OPENINGS (NOT INDICATED) EXCEEDING 1'-0\" IN WIDTH. COORDINATE WITH ALL OTHER DISCIPLINES FOR LOCATION AND SIZE OF SUCH PENETRATIONS.
- COORDINATE REQUIRED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID PENETRATION OF STRUCTURAL MEMBERS AT LINTELS, TOP OF WALL, AND ANY OTHER STRUCTURAL ELEMENTS IN THE FIELD OF THE MASONRY WALL. NOTIFY ENGINEER PRIOR TO PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALLS.
- CONTROL JOINTS IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0\" TO THE EDGE OF MASONRY OPENINGS, UNLESS NOTED OTHERWISE.
- ◆ DENOTES MASONRY CONTROL JOINT. CONTROL JOINTS IN CONCRETE MASONRY WALL MAY OR MAY NOT ALIGN WITH CONTROL JOINTS IN VENEER. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR CONTROL JOINTS IN VENEER.
- CRANE RUNWAY BEAMS SHALL BE STRAIGHTENED AND FABRICATED TO CMAA 74 REQUIREMENTS FOR BRIDGE CRANE RUNWAYS.



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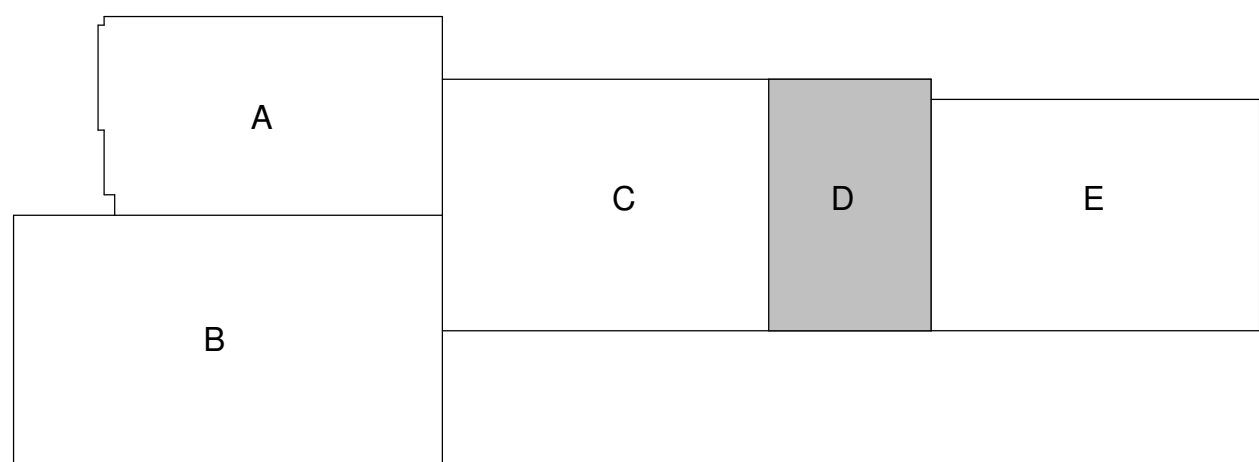
MEZZANINE STRUCTURAL FLOOR PLAN AREA B

S-132B



STRUCTURAL FLOOR PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-0" FOR AREA E ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DESIGN.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLLOGY.
4. REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
6. ALL 8" (NOMINAL) MASONRY WALLS SHALL BE SW08A UNLESS NOTED OR DETAILED OTHERWISE. SEE DETAIL 1/S-521 FOR STRUCTURAL WALL TYPES.
7. GROUT ALL MASONRY SOLID BELOW ELEVATION 100'-0".
8. ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
9. STRUCTURAL WALL TYPES SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (MCJ), UNLESS NOTED OR DETAILED OTHERWISE.
10. PROVIDE 1/8" LINTEL AT ALL MASONRY OPENINGS (NOT INDICATED) EXCEEDING 1'-0" IN WIDTH. COORDINATE WITH ALL OTHER DISCIPLINES FOR LOCATION AND SIZE OF SUCH PENETRATIONS.
11. COORDINATE REQUIRED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID CONCENTRATION OF STRUCTURAL MEMBERS AT LINTELS, TOP OF WALL, AND ANY OTHER STRUCTURAL ELEMENTS IN THE FIELD OF THE MASONRY WALL. NOTIFY ENGINEER PRIOR TO PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALLS.
12. CONTROL JOINTS IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO THE EDGE OF MASONRY OPENINGS, UNLESS NOTED OTHERWISE.
13.  DENOTES MASONRY CONTROL JOINT. CONTROL JOINTS IN CONCRETE MASONRY WALL MAY OR MAY NOT ALIGN WITH CONTROL JOINTS IN VENEER. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR CONTROL JOINTS IN VENEER.
14. CRANE RUNWAY BEAMS SHALL BE STRAIGHTENED AND FABRICATED TO CMAA 74 REQUIREMENTS FOR BRIDGE CRANE RUNWAYS.



Mead & Hunt
Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

4141 NAKOOSA TRAIL
MADISON, WISCONSIN 53714

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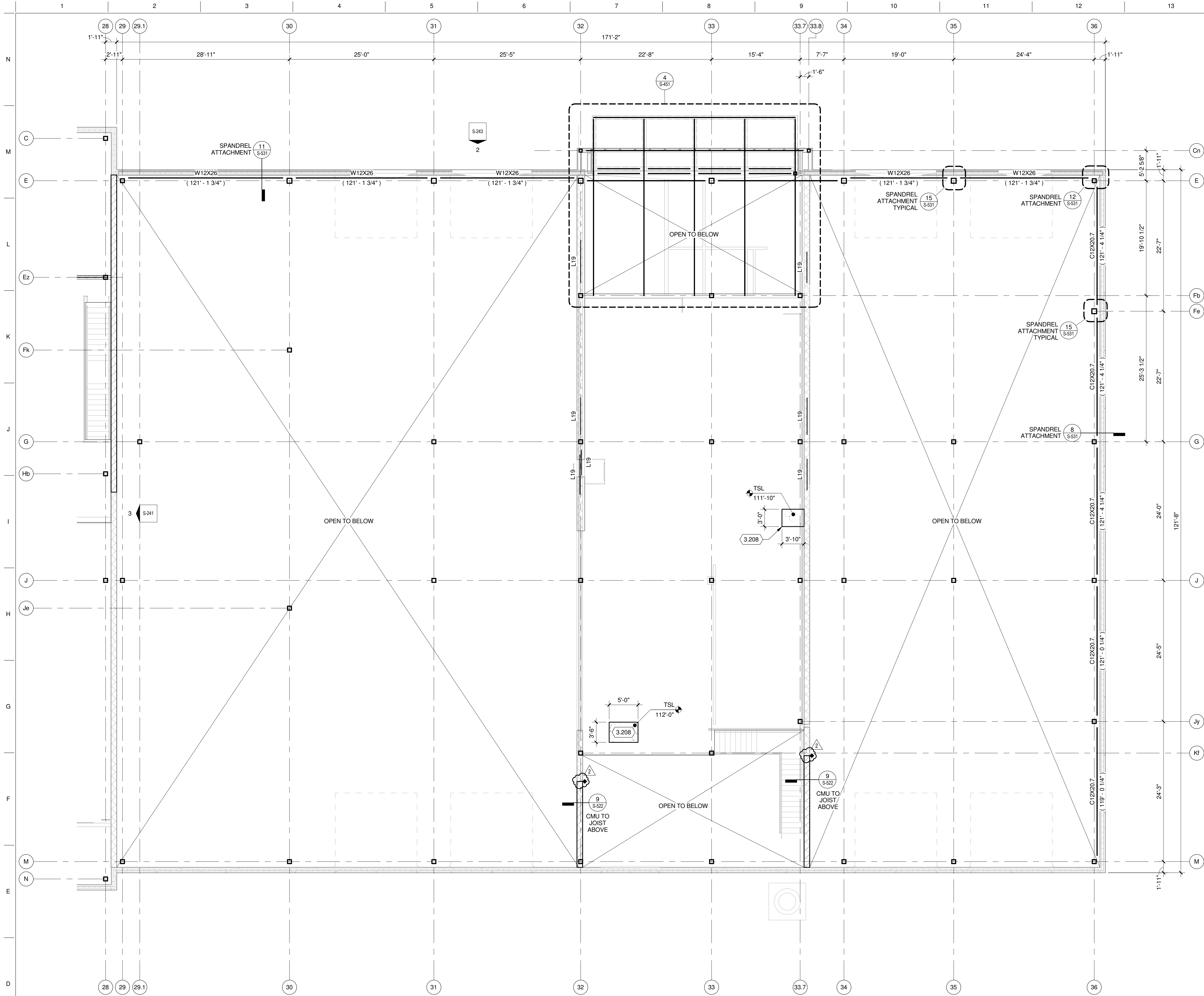
2	ADDENDUM 2	03/05/2019
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	ISSUE FOR PERMIT	01/17/2019

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PROJECT No: 1303500-160264.01		

MEZZANINE STRUCTURAL
FLOOR PLAN AREA D

S-132D

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DRAWN BY: M.E. COLEMAN
DATE: 03/05/2019



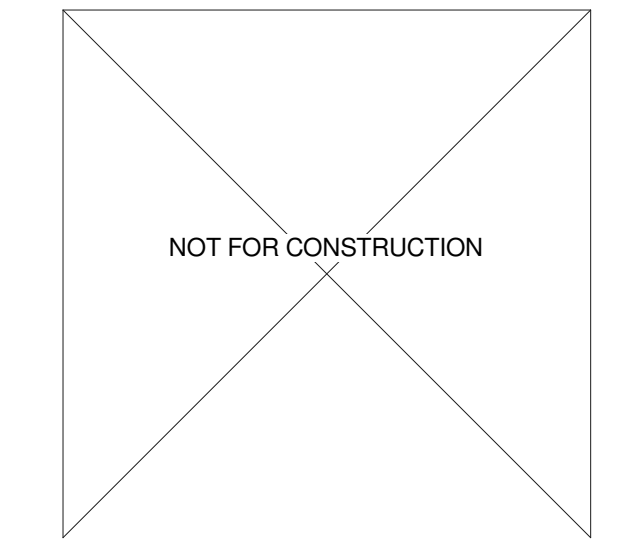
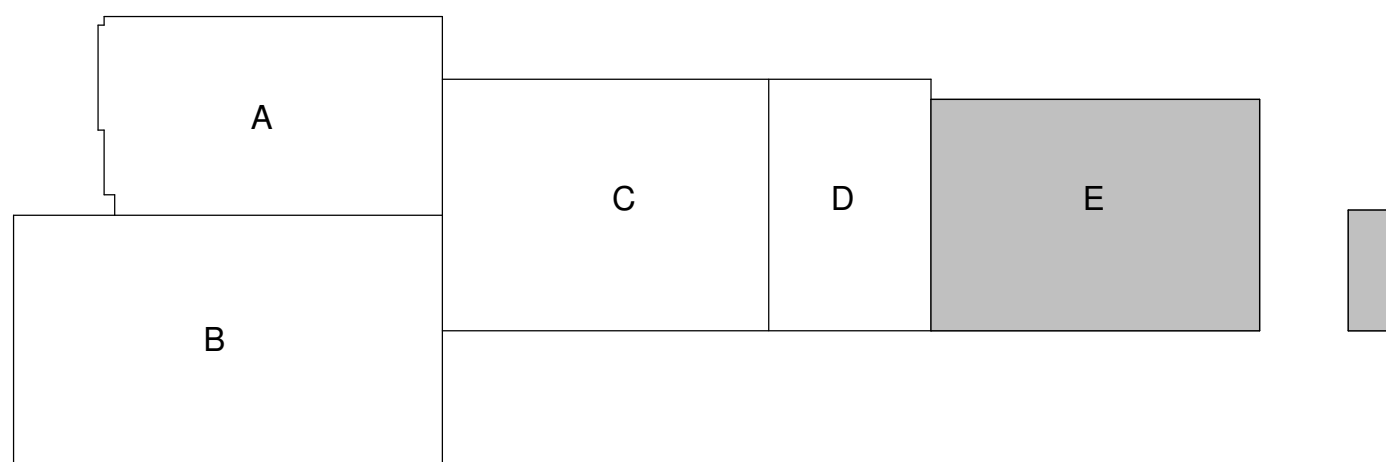
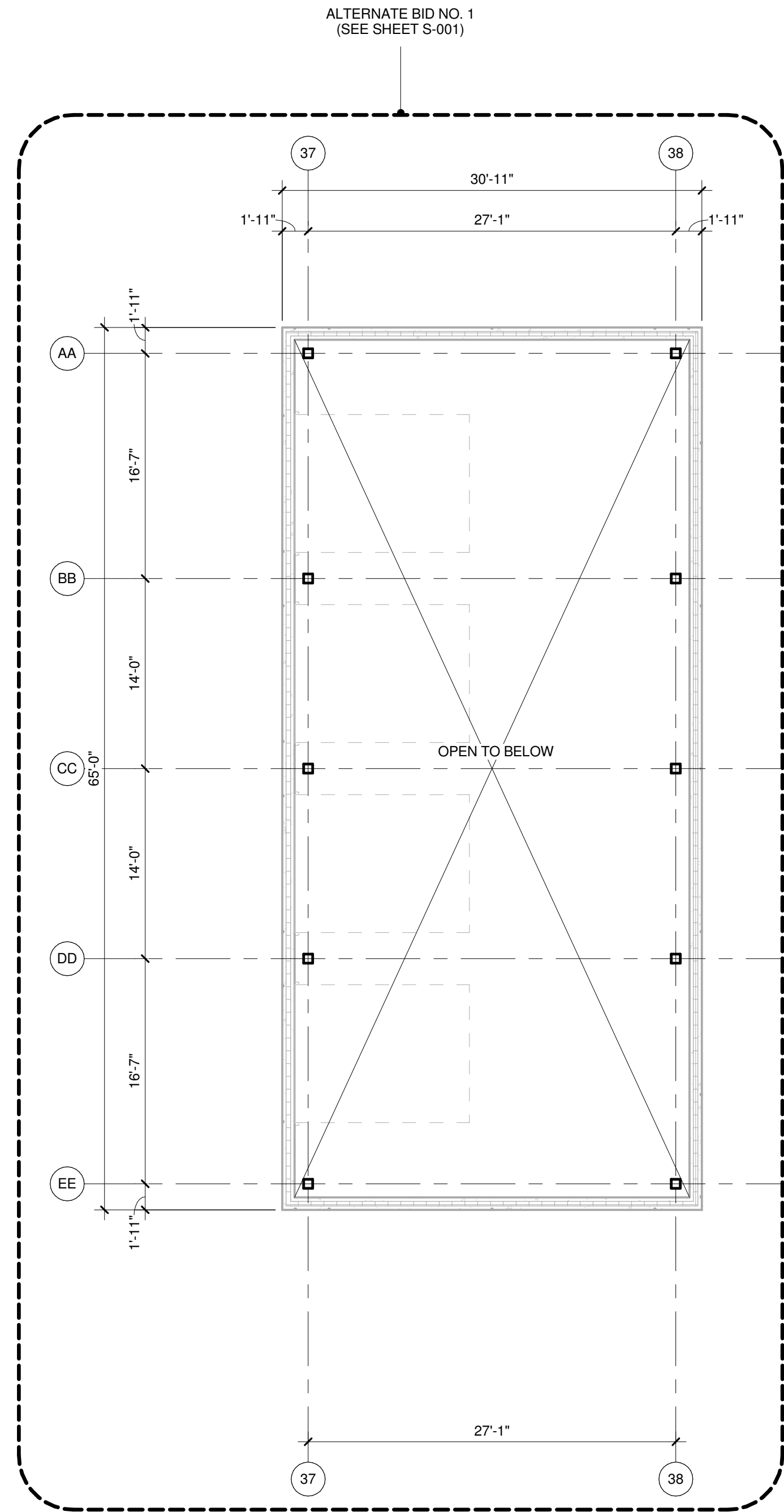
TRUE PLAN
NORTH NORTH
MEZZANINE STRUCURAL FLOOR PLAN AREA E
1/8" = 1'-0"

KEYED NOTES

3.208 MEZZANINE LEVEL EQUIPMENT PAD, SEE DETAIL 10/S-511.
COORDINATE EXACT SIZE AND LOCATION WITH CORRESPONDING
DISCIPLINE (EQUIPMENT, PLUMBING, MECHANICAL, ELECTRICAL)

STRUCTURAL FLOOR PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
4. REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
6. ALL 8" (NOMINAL) MASONRY WALLS SHALL BE SW08A UNLESS NOTED OR DETAILED OTHERWISE. SEE DETAIL 1/S-521 FOR STRUCTURAL WALL TYPES.
7. GROUT ALL MASONRY SOLID BELOW ELEVATION 100'-0".
8. ALL MASONRY WALL REINFORCEMENT SHALL BE FULL HEIGHT UNLESS NOTED OR DETAILED OTHERWISE.
9. STRUCTURAL WALL TYPES SHALL REMAIN CONTINUOUS ACROSS LINTELS AND MASONRY CONTROL JOINTS (MCJ), UNLESS NOTED OR DETAILED OTHERWISE.
10. PROVIDE L19 LINTEL AT ALL MASONRY OPENINGS (NOT INDICATED) EXCEEDING 1'-0" IN WIDTH. COORDINATE WITH ALL OTHER DISCIPLINES FOR LOCATION AND SIZE OF SUCH PENETRATIONS.
11. COORDINATE REQUIRED WALL PENETRATIONS WITH ALL OTHER DISCIPLINES TO AVOID PENETRATION OF STRUCTURAL MEMBERS AT LINTELS, TOP OF WALL, AND ANY OTHER STRUCTURAL ELEMENTS IN THE FIELD OF THE MASONRY WALL. NOTIFY ENGINEER PRIOR TO PENETRATION OF ANY STRUCTURAL MEMBERS INCLUDING, BUT NOT LIMITED TO, BOND BEAMS AND PORTIONS OF FULLY GROUTED MASONRY WALLS.
12. CONTROL JOINTS IN MASONRY SHALL NOT BE LOCATED CLOSER THAN 2'-0" TO THE EDGE OF MASONRY OPENINGS, UNLESS NOTED OTHERWISE.
13. ♦ DENOTES MASONRY CONTROL JOINT. CONTROL JOINTS IN CONCRETE MASONRY WALL MAY OR MAY NOT ALIGN WITH CONTROL JOINTS IN VENEER. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR CONTROL JOINTS IN VENEER.
14. CRANE RUNWAY BEAMS SHALL BE STRAIGHTENED AND FABRICATED TO CMAA 74 REQUIREMENTS FOR BRIDGE CRANE RUNWAYS.

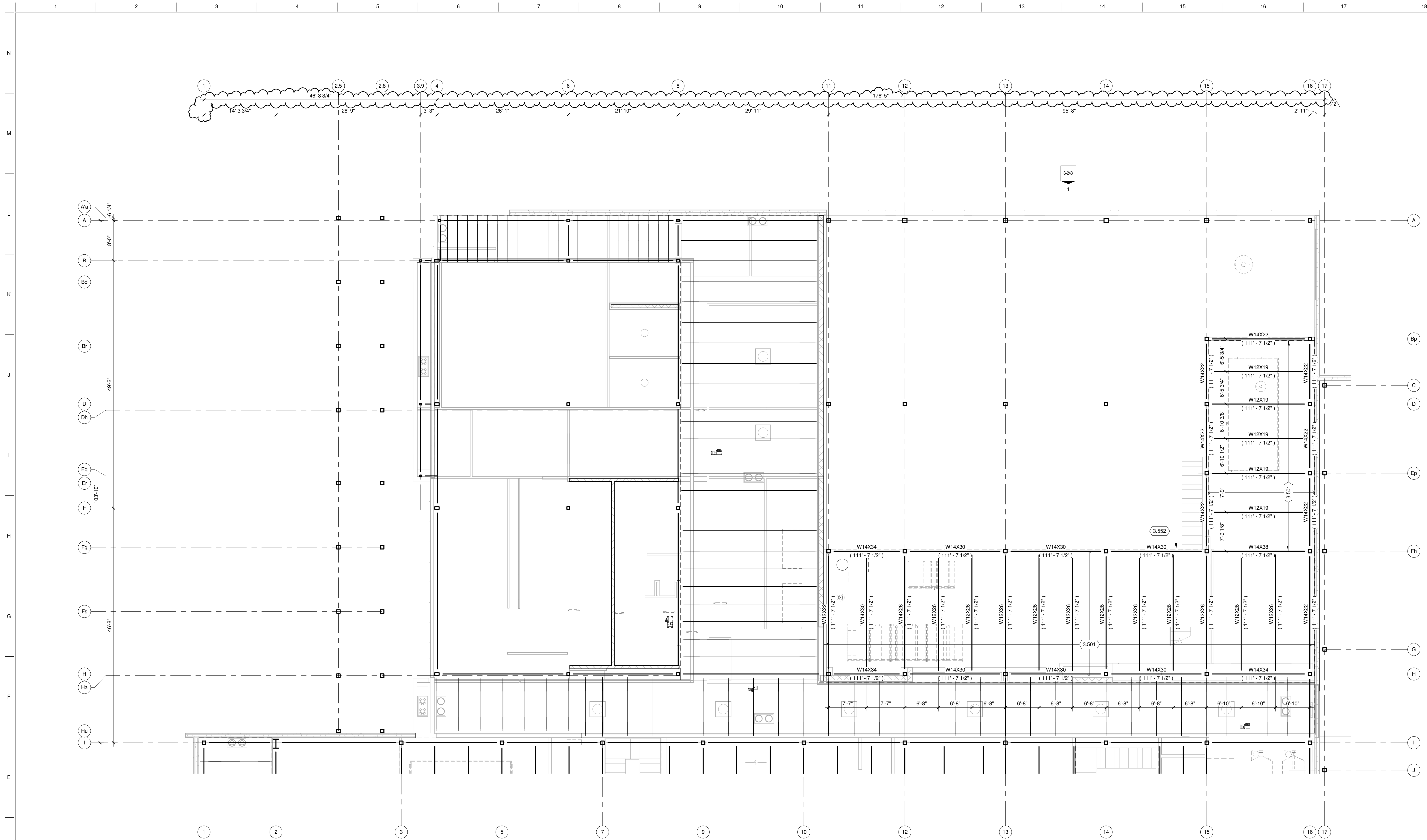


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MEZZANINE STRUCTURAL
FLOOR PLAN AREA E

S-132E



TRUE PLAN
NORTH NORTH
1 MEZZANINE FRAMING PLAN AREA A
1/8" = 1'-0"

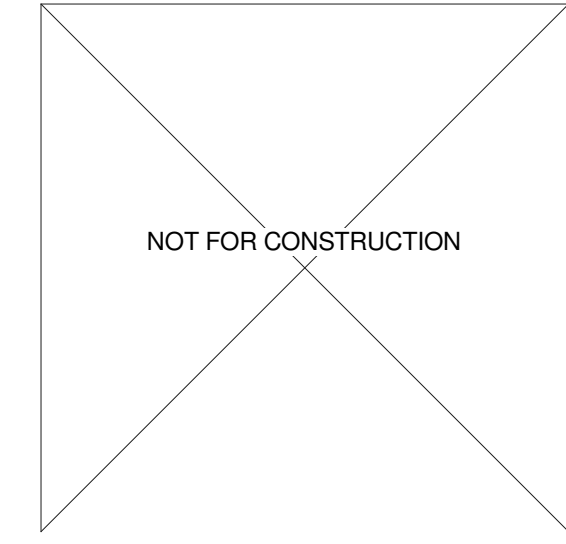
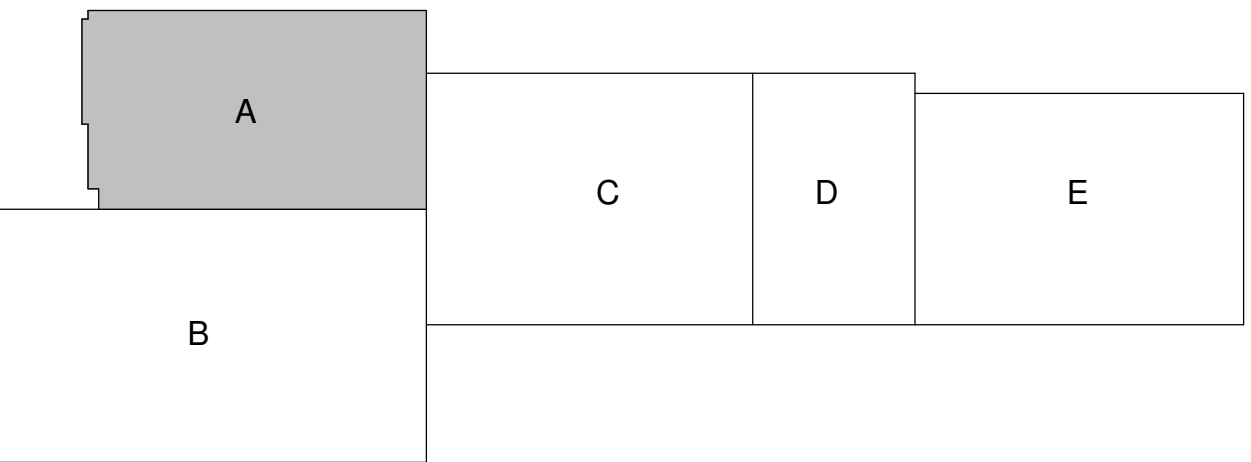
KEYED NOTES

3.501 MEZZANINE DECK WILL BE CONSTRUCTED WITH CONCRETE ON COMPOSITE, 1 1/2" DEEP, WIDE RIB, 50 GAUGE METAL DECK FOR A 4 1/2" TOTAL THICKNESS.

3.552 POST SIGN ON GUARDRAIL: "MEZZANINE LIVE LOAD = 200 PSF"

FRAMING PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
- REFER TO SHEETS S-541 AND S-542 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR DETAILED OTHERWISE:
 - AT MASONRY WALLS
 - "K" SERIES - MIN. 4"
 - "KCS" SERIES - MIN. 4"
 - "LH" SERIES - MIN. 6"
 - "DLH" SERIES - MIN. 6"
 - AT CONCRETE WALLS
 - "K" SERIES - MIN. 4"
 - "KCS" SERIES - MIN. 4"
 - "LH" SERIES - MIN. 6"
 - "DLH" SERIES - MIN. 6"
 - AT STEEL BEAMS
 - "K" SERIES - MIN. 2 1/2"
 - "KCS" SERIES - MIN. 4"
 - "LH" SERIES - MIN. 4"
 - "DLH" SERIES - MIN. 4"
- ALL MEZZANINE BEAMS REQUIRE 3/4" DIAMETER X 3 1/2" LONG SHEAR STUDS SPACED AT 12" O.C. ALONG LENGTH.



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2	ADDENDUM 2	03/05/2015
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MEZZANINE FRAMING PLAN
AREA B

S-142B



MEZZANINE FRAMING PLAN AREA B

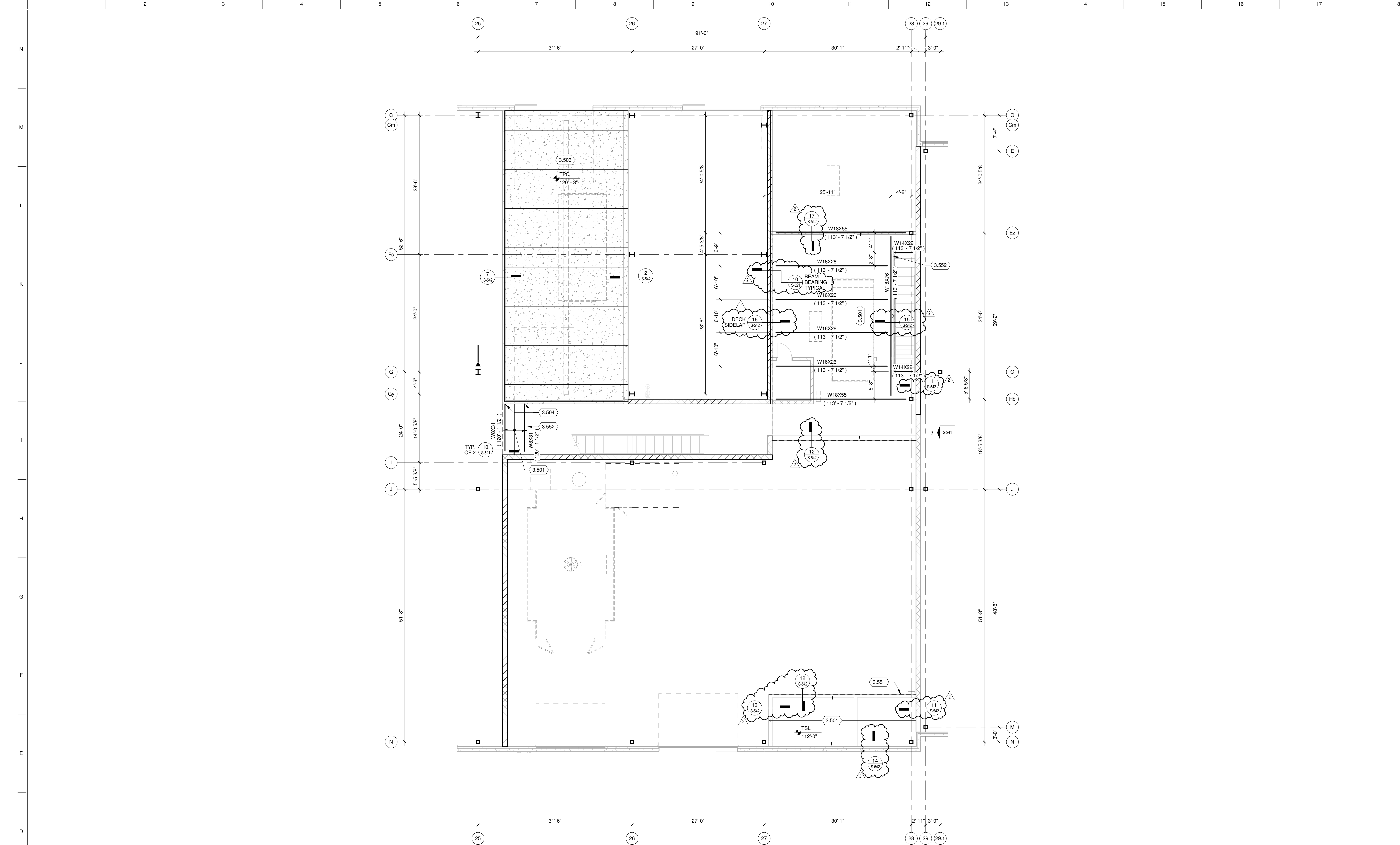
1/8" = 1'-0'

FRAMING PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT OR STRUCTURER FOR FINAL DECISION
3. REFER TO SHEET S-601 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLLOGY.
4. REFER TO SHEETS S-541 AND S-542 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
6. MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR DETAILED OTHERWISE:
 - AT MASONRY WALLS
 - "K" SERIES MIN. 4"
 - "KC" SERIES MIN. 4"
 - "LH" SERIES MIN. 6"
 - "DLH" SERIES MIN. 6"
 - AT CONCRETE WALLS
 - "K" SERIES MIN. 4"
 - "KC" SERIES MIN. 4"
 - "LH" SERIES MIN. 4"
 - "DLH" SERIES MIN. 6"
 - AT STEEL BEAMS
 - "K" SERIES MIN. 2 1/2"
 - "KC" SERIES MIN. 2 1/2"
 - "LH" SERIES MIN. 4"
 - "DLH" SERIES MIN. 4"
7. ALL MEZZANINE BEAMS REQUIRE 3/4" DIAMETER X 13'12" LONG SHEAR STUDS SPACED AT 12" O.C. ALONG LENGTH.

KEYED NOTES

- 3.501 MEZZANINE DECK WILL BE CONSTRUCTED WITH CONCRETE ON COMPOSITE, 1 1/2" DEEP, WIDE RIB, 20 GAUGE METAL DECK FOR A 4 1/2" TOTAL THICKNESS.
- 3.502 6" HOLLOW CORE PLANK WITH GROUDED KEYS AND NO TOPPING PRECAST DIAPHRAGM SHEAR: V = 2K. PRECAST SUPPLIER TO DESIGN AND SUPPLY SUPPORT FOR HOLLOW CORE PLANK ON PRECAST WALL PANEL.
- 3.552 POST SIGN ON GUARDRAIL: "MEZZANINE LIVE LOAD = 200 PSF"



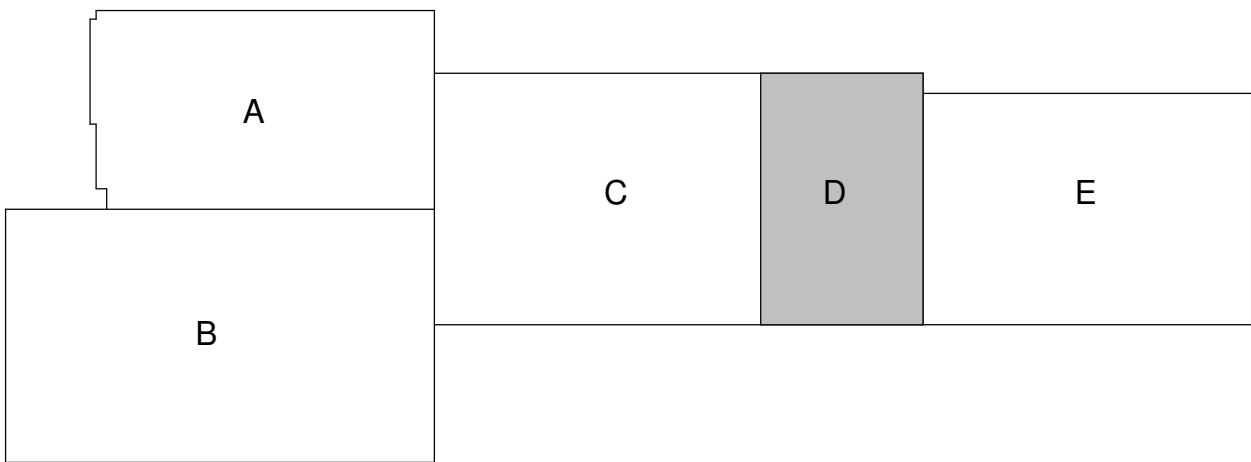
TRUE PLAN NORTH NORTH
1 MEZZANINE FRAMING PLAN AREA D
1/8" = 1'-0"

KEYED NOTES

- 3.501 MEZZANINE DECK WILL BE CONSTRUCTED WITH CONCRETE ON COMPOSITE, 1 1/2" DEEP, WIDE RIB, 50 GAUGE METAL DECK FOR A 4 1/2" TOTAL THICKNESS.
- 3.503 12" HOLLOW CORE PLANK WITH GROUTED KEYWAYS AND 3" TOPPING. PRECAST DIAPHRAGM SHEAR: V = - K. PRECAST SUPPLIER TO DESIGN AND SUPPLY SUPPORT FOR HOLLOW CORE PLANK ON PRECAST WALL PANEL.
- 3.504 EMBED ATTACHMENT PLATE SHALL BE PROVIDED IN PRECAST WALL PANEL. CONNECT BEAM TO EMBED PLATE PER DETAIL 1/S-541.
- 3.551 POST SIGN ON GUARDRAIL: "MEZZANINE LIVE LOAD = 135 PSF"
- 3.552 POST SIGN ON GUARDRAIL: "MEZZANINE LIVE LOAD = 200 PSF"

FRAMING PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
4. REFER TO SHEETS S-541 AND S-542 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
6. MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR DETAILED OTHERWISE:
- AT MASONRY WALLS
 - "K" SERIES - MIN. 4"
 - "KCS" SERIES - MIN. 4"
 - "LH" SERIES - MIN. 6"
 - "DLH" SERIES - MIN. 6"
 - AT CONCRETE WALLS
 - "K" SERIES - MIN. 4"
 - "KCS" SERIES - MIN. 4"
 - "LH" SERIES - MIN. 6"
 - "DLH" SERIES - MIN. 6"
 - AT STEEL BEAMS
 - "K" SERIES - MIN. 2 1/2"
 - "KCS" SERIES - MIN. 4"
 - "LH" SERIES - MIN. 4"
 - "DLH" SERIES - MIN. 4"
7. ALL MEZZANINE BEAMS REQUIRE 3/4" DIAMETER X 3 1/2" LONG SHEAR STUDS SPACED AT 12" O.C. ALONG LENGTH.



1600 WILSON BLVD.
SUITE 360
ARLINGTON, VA 22209
571.230.7679

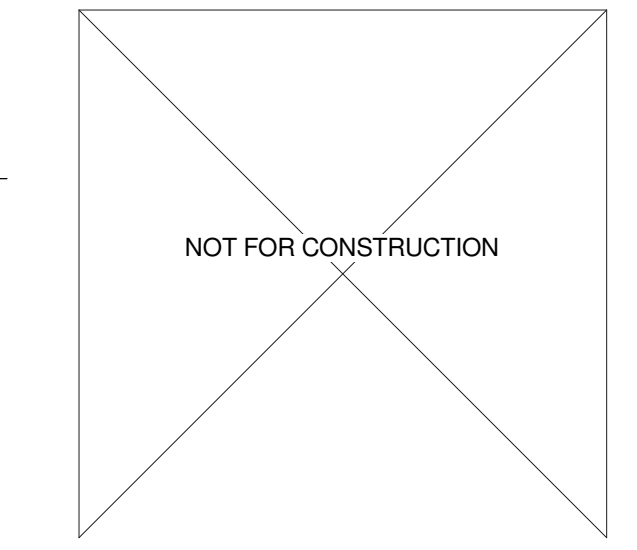


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Middleton, WI 53562
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CITY OF MADISON
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY

4141 NAKOOSA TRAIL
MADISON, WISCONSIN 53714

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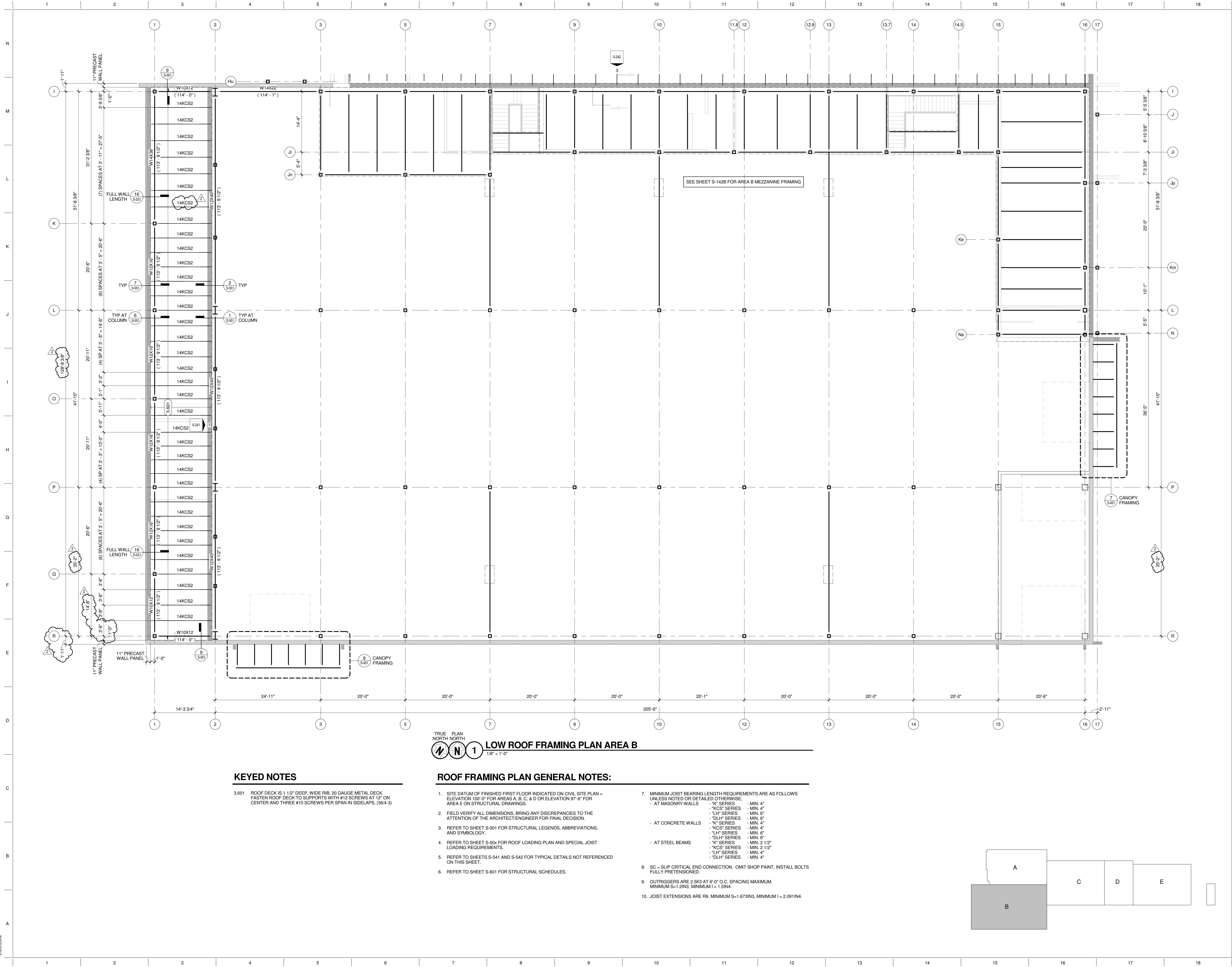


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2	ADDENDUM 2	03/05/2019
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MEZZANINE FRAMING PLAN
AREA D

S-142D

C:\Users\mkoosa\Documents\PROJECTS\NAKOOSA TRAIL FLEET/FIRE/RADIO SHOP FACILITY\DWG\151B.DWG
DRAWN BY: MJC
CHECKED BY: MJC
DATE: 03/05/2019



KEYED NOTES

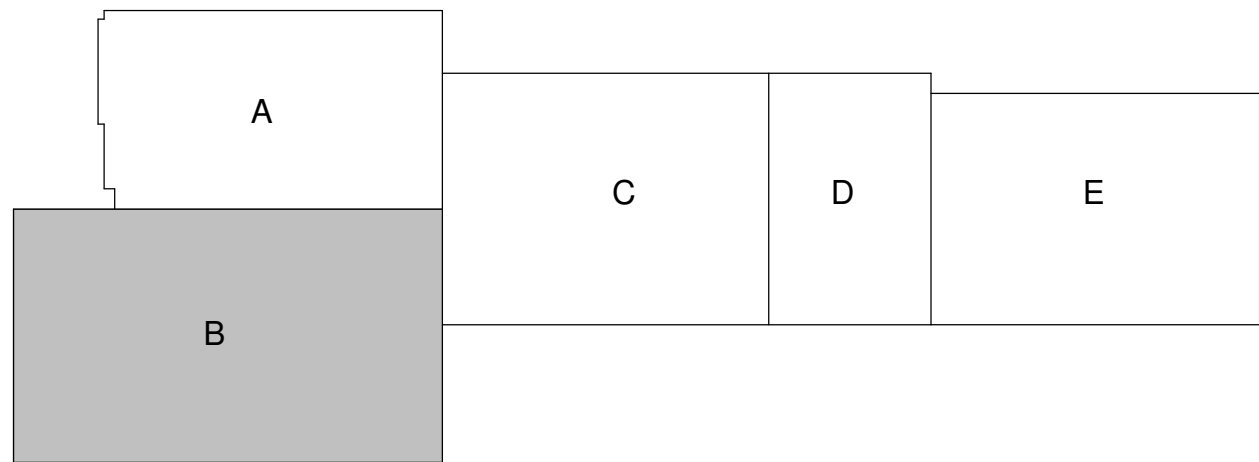
3.601 ROOF DECK IS 1 1/2" DEEP, WIDE RIB, 20 GAUGE METAL DECK. FASTEN ROOF DECK TO SUPPORTS WITH #12 SCREWS AT 12" ON CENTER AND THREE #10 SCREWS PER SPAN IN SIDELAPS, (3/4-3)

TRUE PLAN NORTH NORTH
1/8" = 1'-0"

LOW ROOF FRAMING PLAN AREA B

ROOF FRAMING PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
4. REFER TO SHEET S-00x FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.
5. REFER TO SHEETS S-541 AND S-542 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
6. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
7. MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR DETAILED OTHERWISE:
 - AT MASONRY WALLS
 - "K" SERIES - MIN. 4"
 - "KCS" SERIES - MIN. 4"
 - "LH" SERIES - MIN. 6"
 - "DLH" SERIES - MIN. 6"
 - AT CONCRETE WALLS
 - "K" SERIES - MIN. 4"
 - "KCS" SERIES - MIN. 4"
 - "LH" SERIES - MIN. 6"
 - "DLH" SERIES - MIN. 6"
 - AT STEEL BEAMS
 - "K" SERIES - MIN. 2 1/2"
 - "KCS" SERIES - MIN. 2 1/2"
 - "LH" SERIES - MIN. 4"
 - "DLH" SERIES - MIN. 4"
8. SC = SLIP CRITICAL END CONNECTION. OMIT SHOP PAINT, INSTALL BOLTS FULLY PRETENSIONED.
9. OUTRIGGERS ARE 2.5K3 AT 6'-0" O.C. SPACING MAXIMUM. MINIMUM S=1.2IN3, MINIMUM I = 1.5IN4.
10. JOIST EXTENSIONS ARE R9: MINIMUM S=1.673IN3, MINIMUM I = 2.091IN4.



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LOW ROOF FRAMING PLAN
AREA B

S-151B



ROOF FRAMING PLAN GENERAL NOTES:

- 

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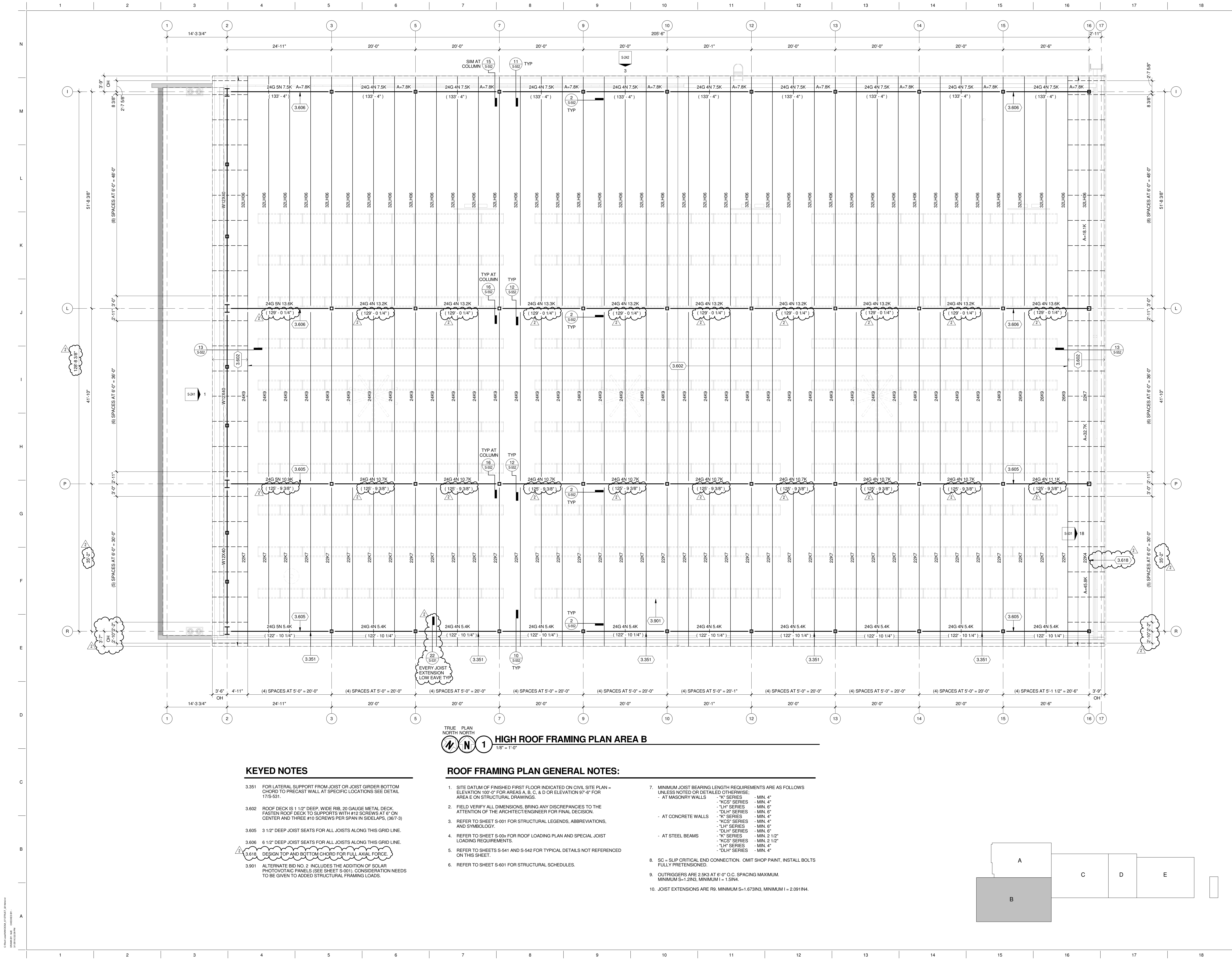
DATE

PROJECT No: 1303500-160264.01

HIGH ROOF FRAMING PLAN

AREA A

S-152A



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HIGH ROOF FRAMING PLAN
AREA B

S-152B



3.351 FOR LATERAL SUPPORT FROM JOIST OR JOIST GRADING BOTTOM CHORD TO PRECAST WALL AT SPECIFIC LOCATIONS SEE DETAIL 17/S-531.

3.602 ROOF DECK IS 1 1/2" DEEP, WIDE RIB, 20 GAUGE METAL DECK. FASTEN ROOF DECK TO SUPPORTS WITH #12 SCREWS AT 6" ON CENTER AND THREE #10 SCREWS PER SPAN IN SIDELAPS. (387-3)

3.606 6 1/2" DEEP JOIST SEATS FOR ALL JOISTS ALONG THIS GRID LINE.

3.810 TYPICAL FRAMING FOR ROOF OPENING. SEE DETAIL 15/S-551.

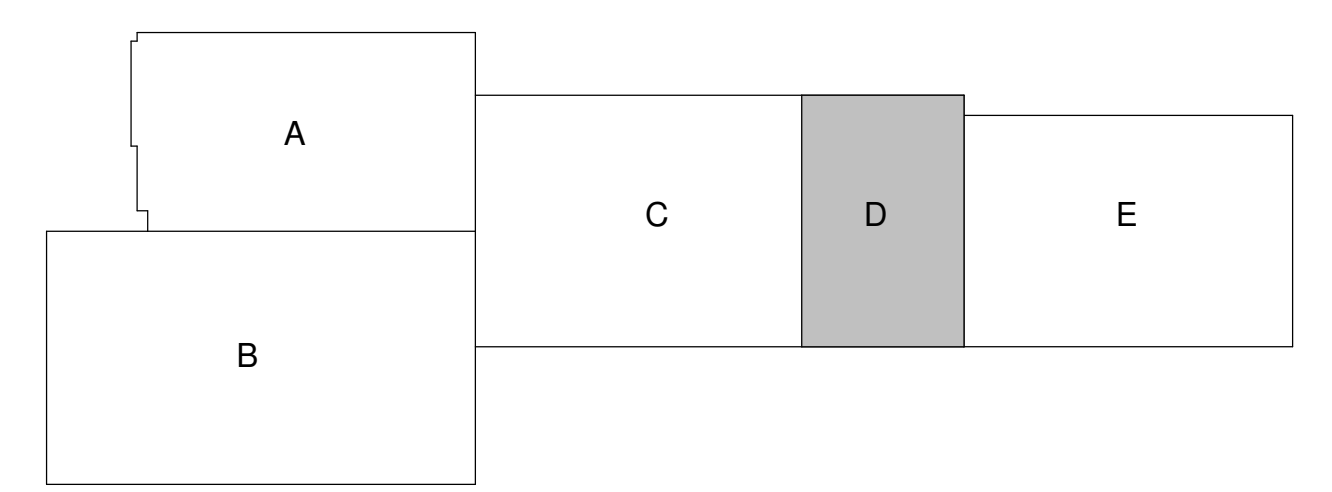
3.611 CMU WALL ATTACHMENT TO BEAM OR JOIST. SEE DETAIL 5/S-522. BENT PLATE CONTINUOUS ALONG THE LENGTH OF CMU WALL.

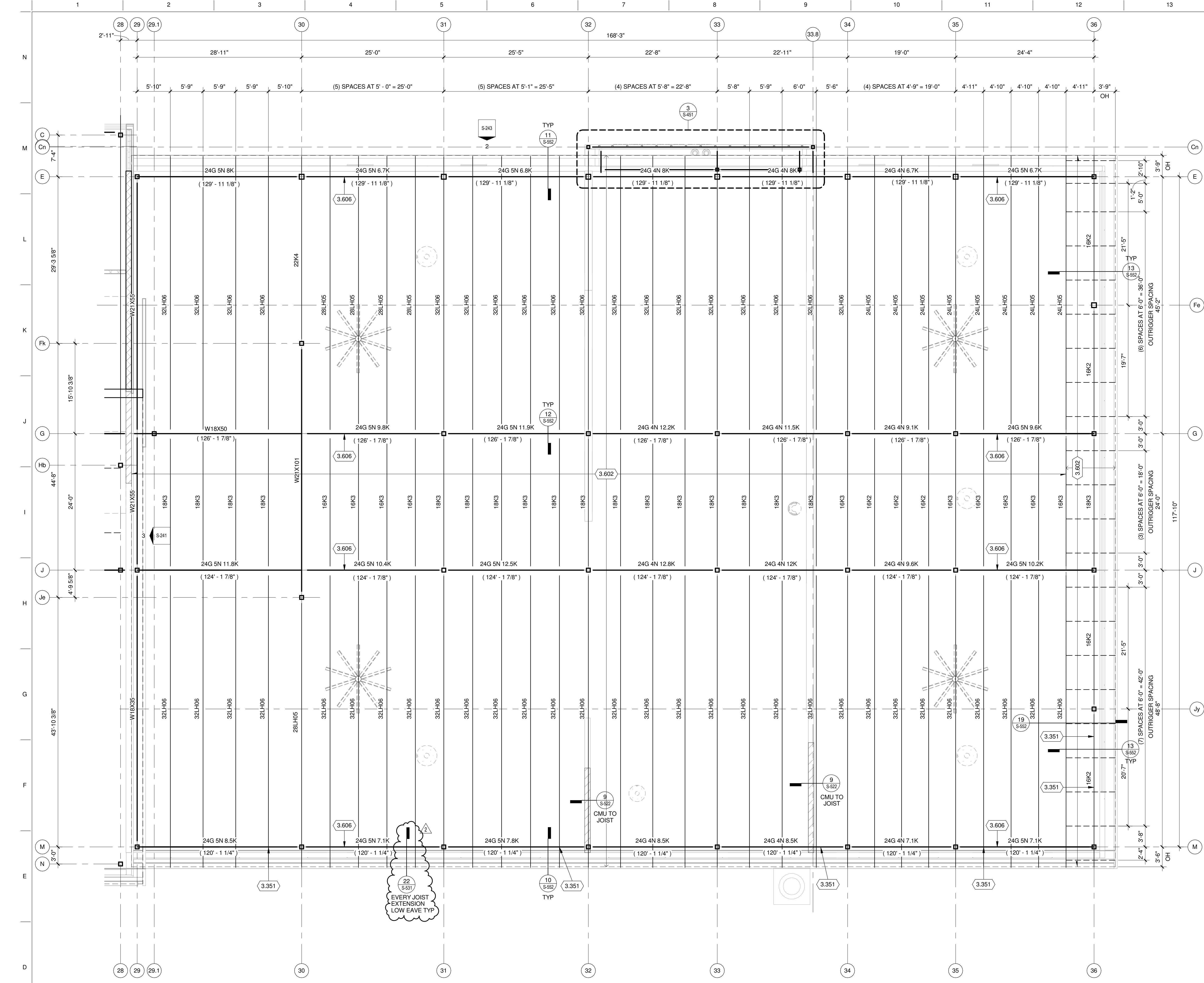
3.613 SEE DETAIL 8/S-522 AND SECTION DETAIL 7/S-522 FOR MASONRY SHEAR TRANSFER BRACING.

3.614 PROVIDE BENT PLATE DECK SUPPORT FULL LENGTH OF THIS BEAM/JOIST GRADING. SIMILAR TO DETAIL 17/S-552 EXCEPT ATTACH WITH #10 SCREWS AT 6" O.C.

3.615 AT PAINB BOTT EXHAUST AND MIXING ROOM EXHAUST PROVIDE TYPICAL FRAMED ROOF OPENING (SEE DETAIL 15/S-551) PLUS (4) 3'6x6x12x4 BENT PLATES TO CREATE A FLAT, LEVEL SURFACE TO SUPPORT PLATE FIELD. FIELD BENT PLATES TO FRAMED OPENING. FIELD FIELD FLANGE TO BENT PLATES.

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100' 0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.		7. MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS UNLESS NOTED OR DETAILLED OTHERWISE: - AT MASONRY WALLS "T" SERIES - MIN.' 4" "-KCS" SERIES - MIN.' 6" "-LH" SERIES - MIN.' 6" "-DLH" SERIES - MIN.' 8"
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.		- AT CONCRETE WALLS "-K" SERIES - MIN.' 4" "-KCS" SERIES - MIN.' 4" "-LH" SERIES - MIN.' 6" "-DLH" SERIES - MIN.' 6"
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLLOGY.		- AT STEEL BEAMS "-K" SERIES - MIN.' 2 1/2" "-KCS" SERIES - MIN.' 2 1/2" "-LH" SERIES - MIN.' 4" "-DLH" SERIES - MIN.' 4"
4. REFER TO SHEET S-00x FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.		
5. REFER TO SHEETS S-541 AND S-542 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.		
6. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.		
		8. SC = SLIP CRITICAL END CONNECTION. OMIT SHOP PAINT, INSTALL BOLTS FULLY PRETENSIONED.
		9. OUTRIGGERS ARE 2.5K3 AT 6'-0" O.C. SPACING MAXIMUM. MINIMUM S=1.2IN3. MINIMUM I = 1.5IN4.
		10. JOIST EXTENSIONS ARE R#9. MINIMUM S=1.673IN3. MINIMUM I = 2.091IN4.





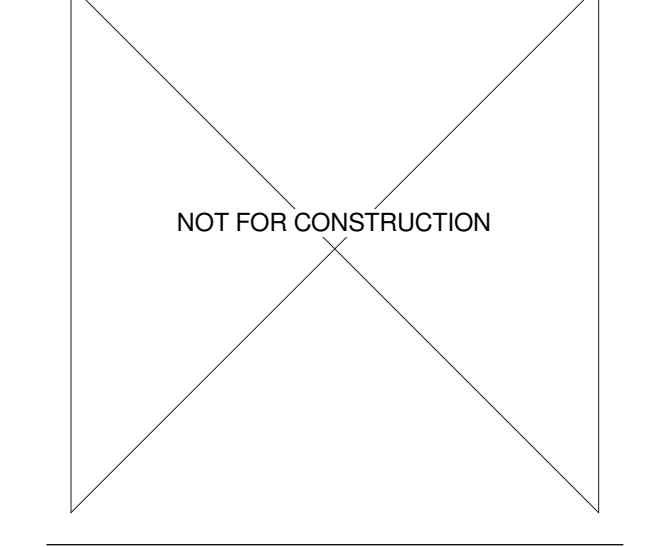
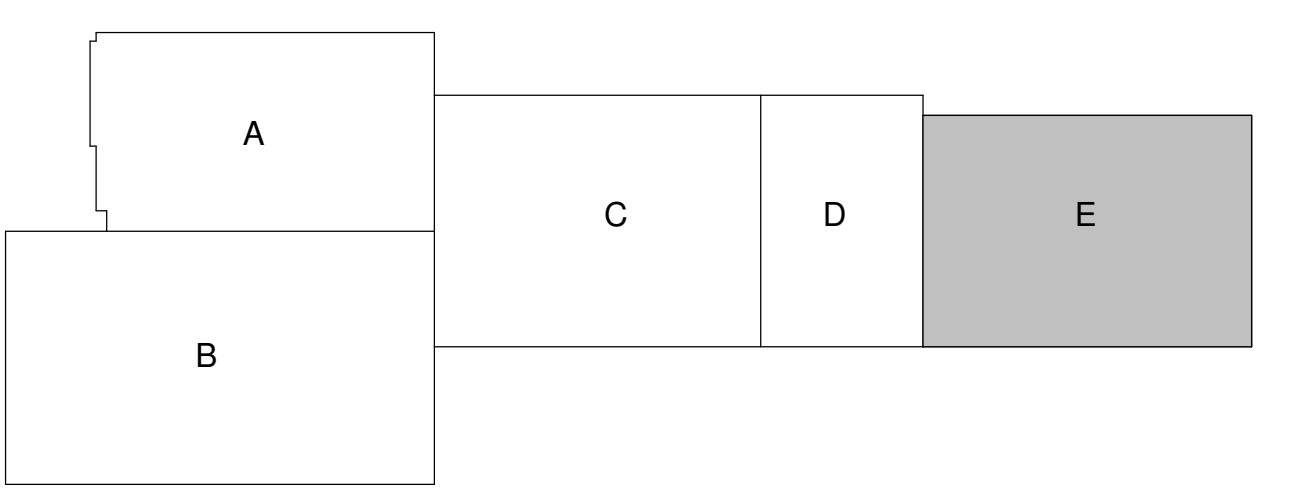
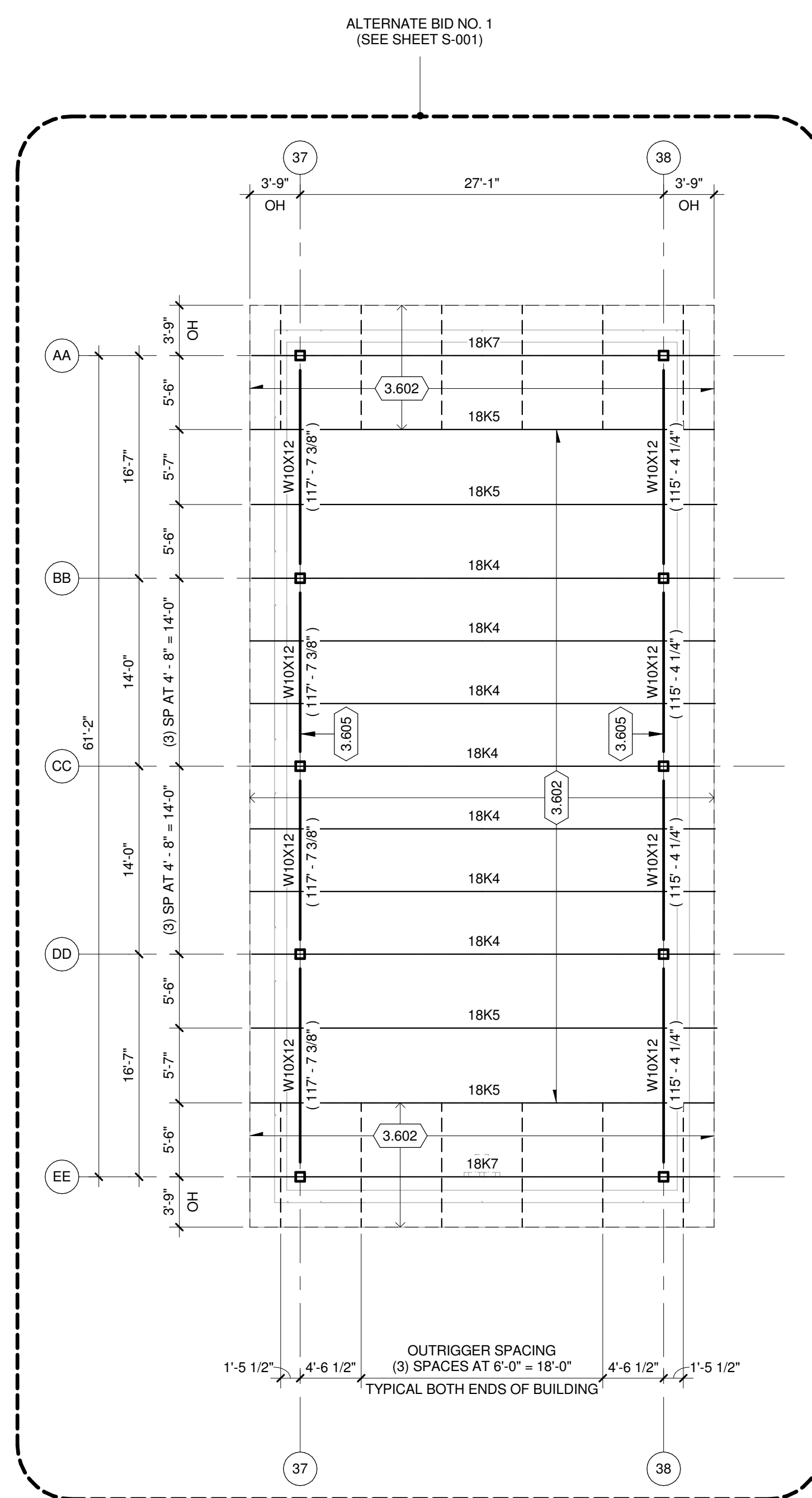
TRUE PLAN NORTH NORTH
1 HIGH ROOF FRAMING PLAN AREA E
1/8" = 1'-0"

KEYED NOTES

- 3.351 FOR LATERAL SUPPORT FROM JOIST OR JOIST GIRDER BOTTOM CHORD TO PRECAST WALL AT SPECIFIC LOCATIONS SEE DETAIL 17/5-531.
- 3.602 ROOF DECK IS 1 1/2" DEEP, WIDE RIB, 20 GAUGE METAL DECK. FASTEN ROOF DECK TO SUPPORTS WITH #12 SCREWS AT 6" ON CENTER AND THREE #10 SCREWS PER SPAN IN SIDELAPS. (36/7-3)
- 3.605 3 1/2" DEEP JOIST SEATS FOR ALL JOISTS ALONG THIS GRID LINE.
- 3.606 6 1/2" DEEP JOIST SEATS FOR ALL JOISTS ALONG THIS GRID LINE.

ROOF FRAMING PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN - ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOLOGY.
- REFER TO SHEET S-00x FOR ROOF LOADING PLAN AND SPECIAL JOIST LOADING REQUIREMENTS.
- REFER TO SHEETS S-541 AND S-542 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- MINIMUM JOIST BEARING LENGTH REQUIREMENTS ARE AS FOLLOWS
- AT MASONRY WALLS
- AT CONCRETE WALLS
- AT STEEL BEAMS
- SC = SLIP CRITICAL END CONNECTION. OMIT SHOP PAINT, INSTALL BOLTS FULLY PRETENSIONED.
- OUTRIGGERS ARE 2.5K3 AT 6'-0" O.C. SPACING MAXIMUM. MINIMUM S=1.2IN3, MINIMUM I = 1.5IN4.
- JOIST EXTENSIONS ARE R9: MINIMUM S=1.673IN3, MINIMUM I = 2.091IN4.



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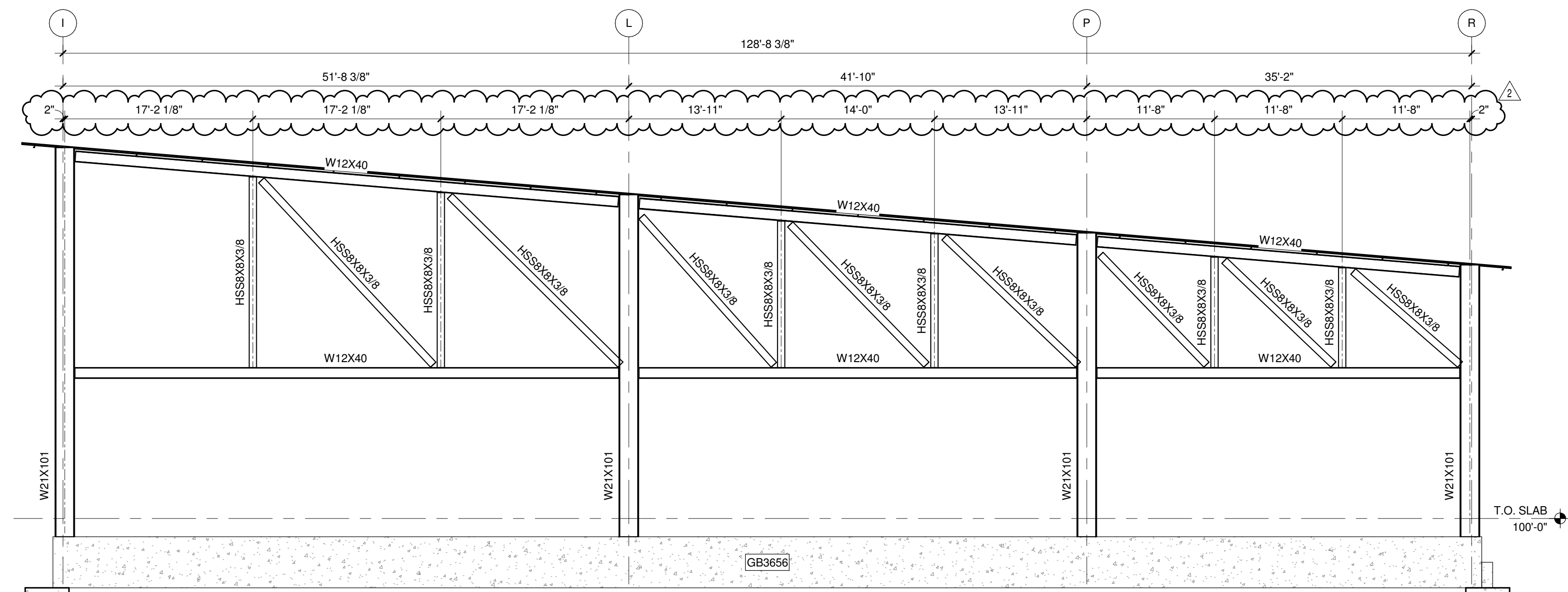
2	ADDENDUM 2	03/05/2019
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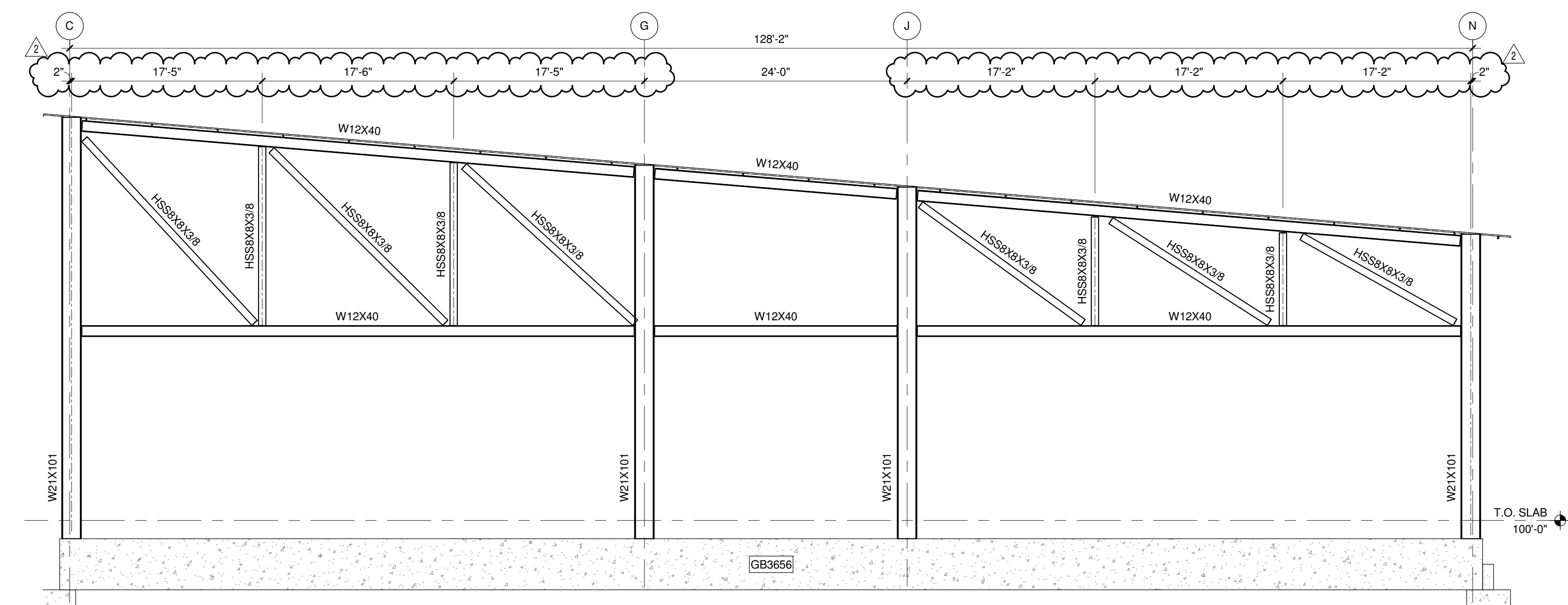
PROJECT No: 1303500-160264.01

STRUCTURAL FRAMING ELEVATIONS

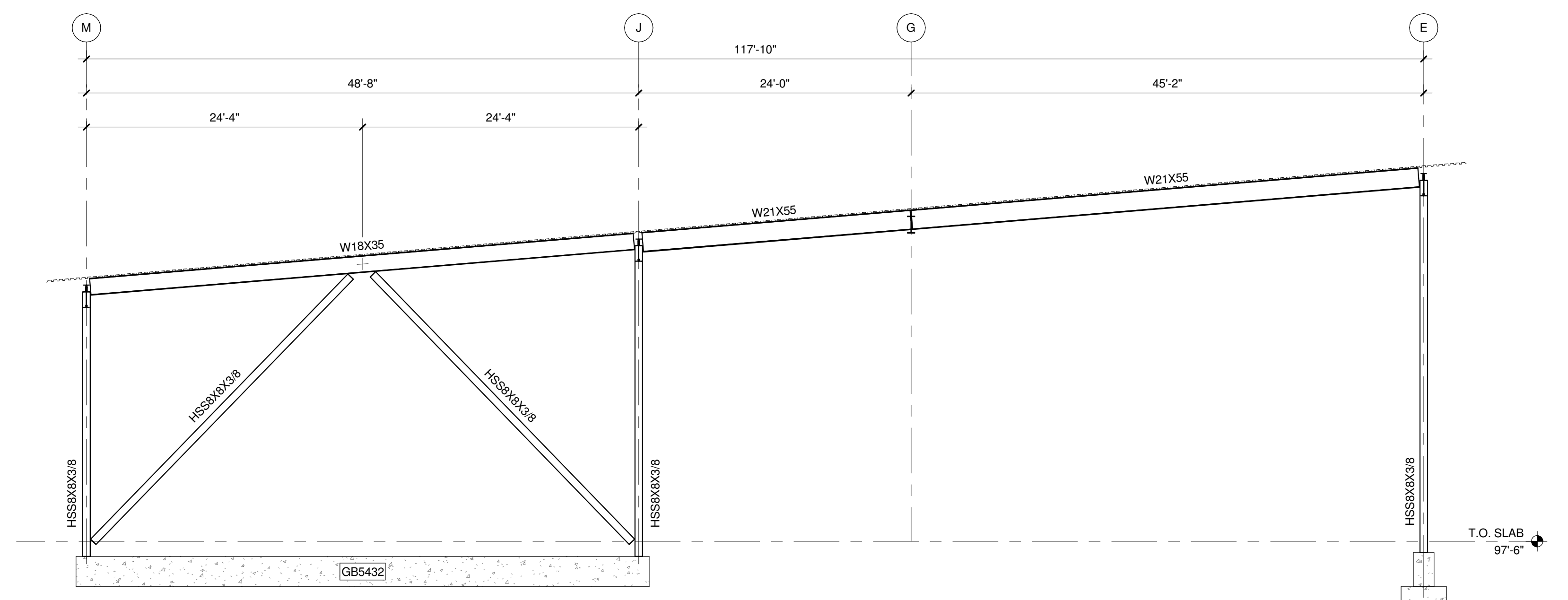
S-241



1 STRUCTURAL FRAMING ELEVATION ALONG GRID "2" (LOOKING EAST)
1/8" = 1'-0"

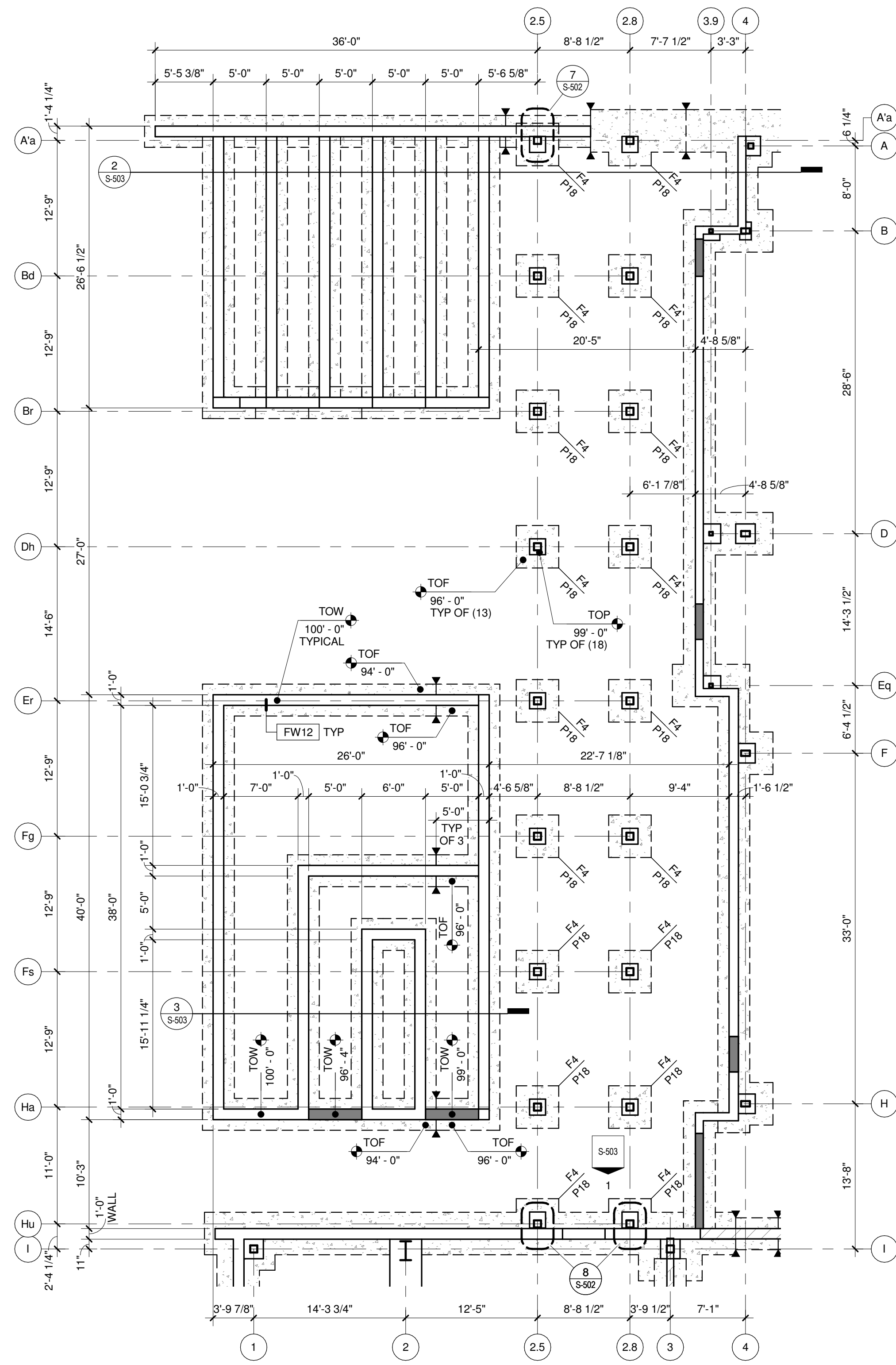
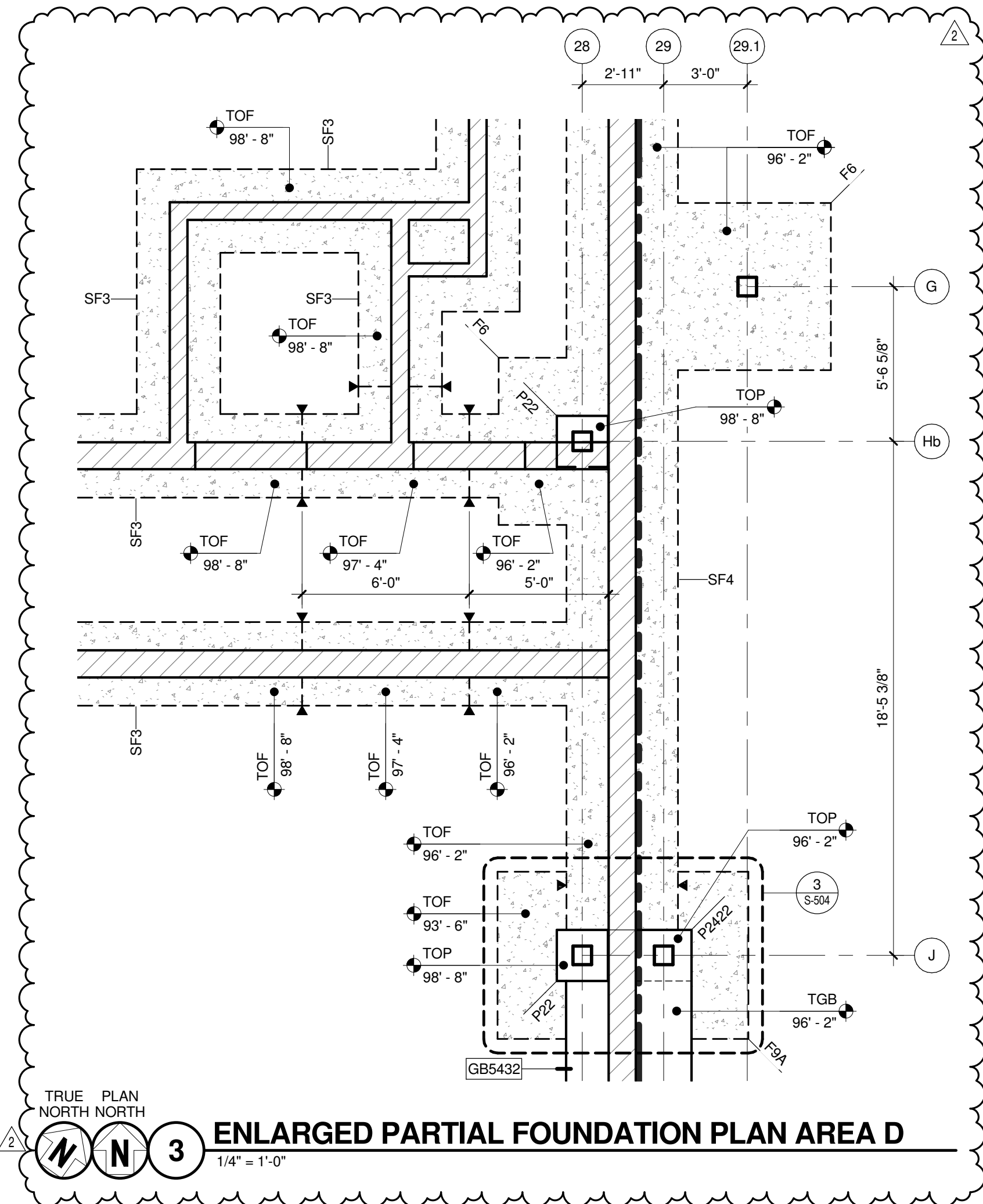
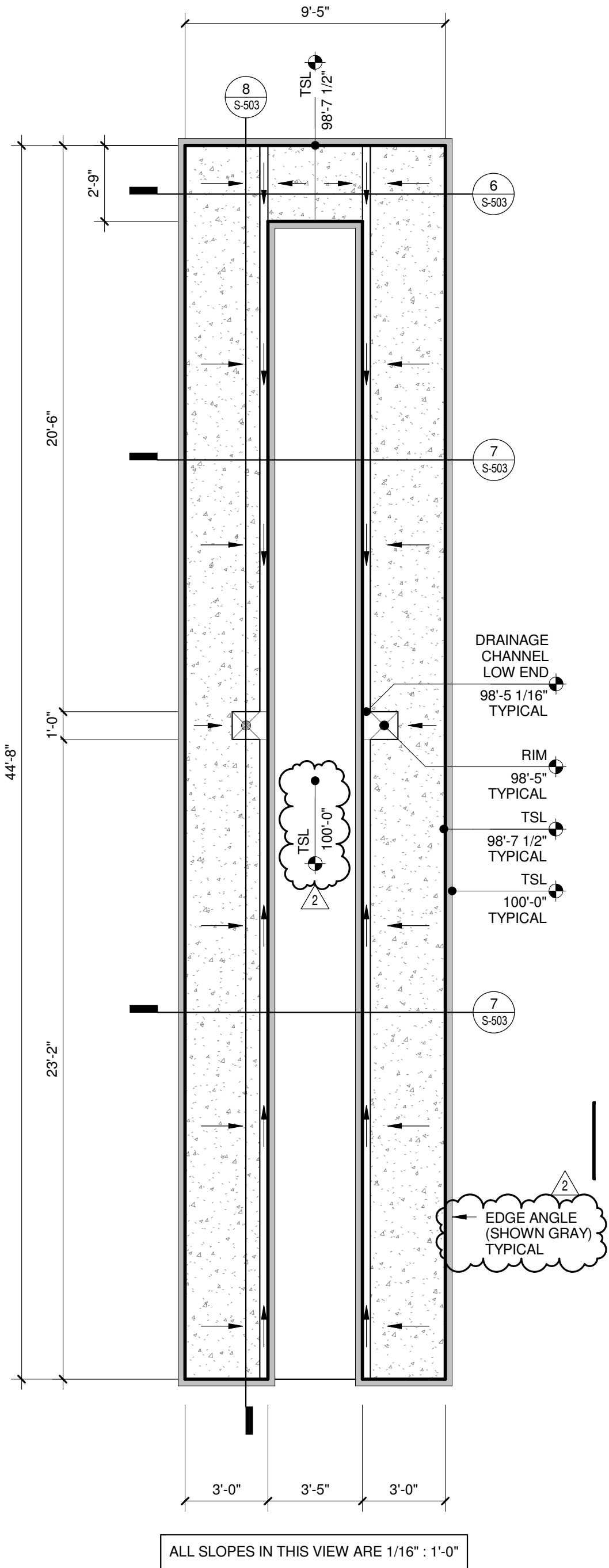
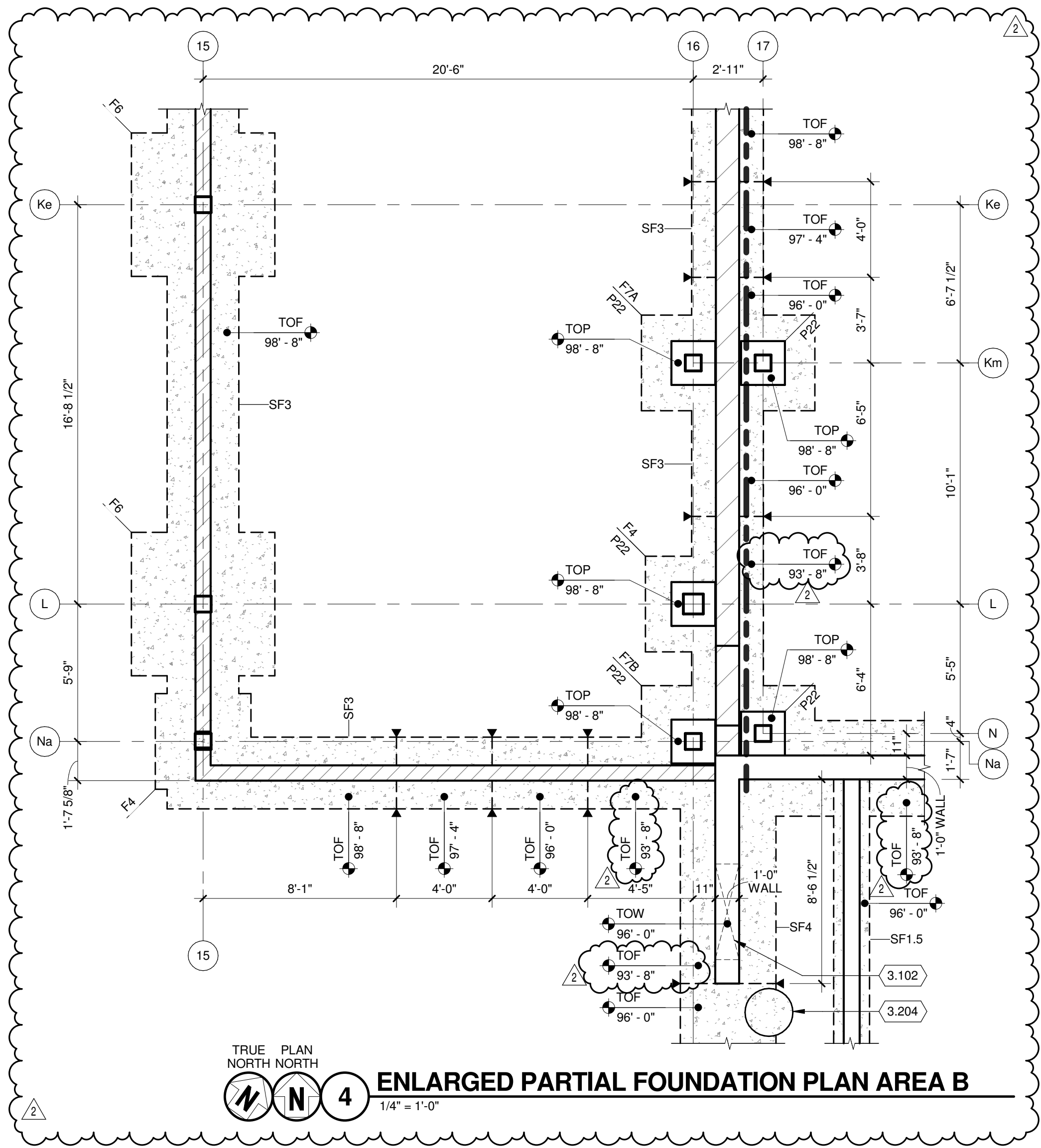


2 STRUCTURAL FRAMING ELEVATION ALONG GRID "18" (LOOKING EAST)
1/8" = 1'-0"



3 STRUCTURAL FRAMING ELEVATION ALONG GRID "29" (LOOKING WEST)
1/8" = 1'-0"

NOT FOR CONSTRUCTION



KEYED NOTES

- 3.102 PROVIDE 1'-0" X 4'-0" OPENING IN PRECAST FOUNDATION WALL FOR TELECOMMUNICATIONS / ELECTRICAL CABLE. SEE TYPICAL DETAIL 10/S-502. COORDINATE FINAL LOCATION WITH ELECTRICAL.
- 3.204 BOLLARD, SEE DETAIL 14/S-511

FOUNDATION PLAN GENERAL NOTES:

- SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" FOR AREAS A, B, C, & D OR ELEVATION 97'-6" FOR AREA E ON STRUCTURAL DRAWINGS.
- FIELD VERIFY ALL DIMENSIONS. BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
- REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLS.
- REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
- REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
- STRIP FOOTINGS SHALL BE CENTERED UNDER FOUNDATION/MASONRY WALLS UNLESS NOTED OTHERWISE.

NOT FOR CONSTRUCTION

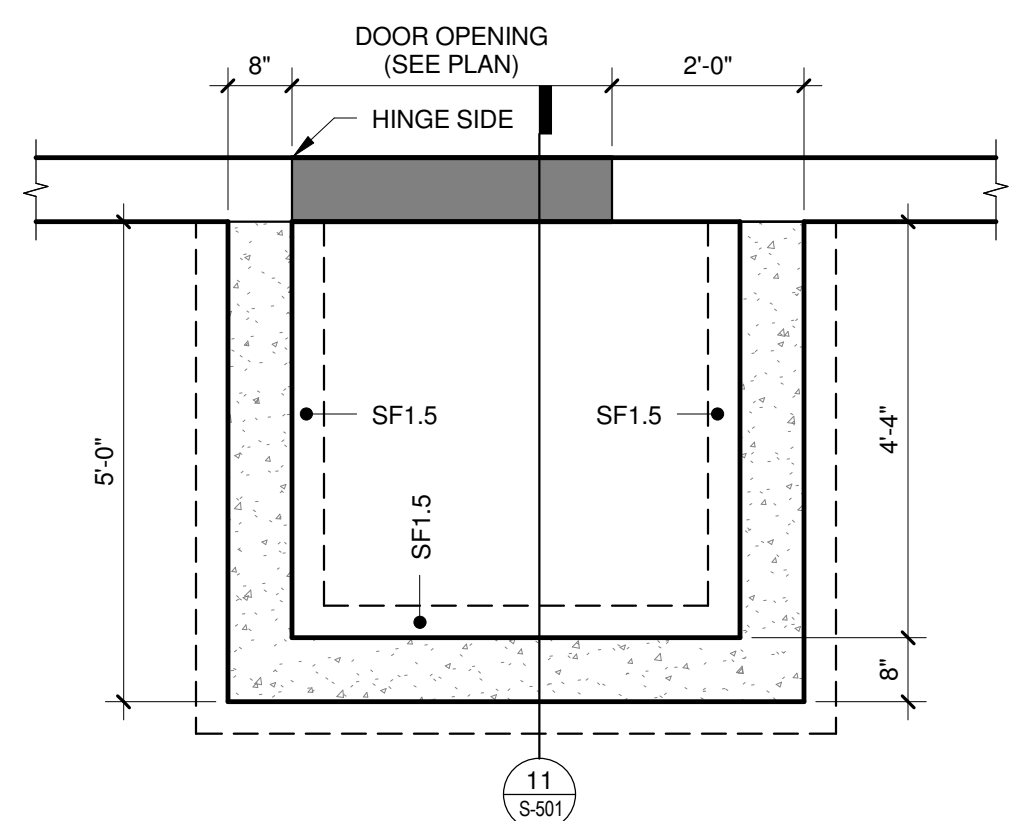
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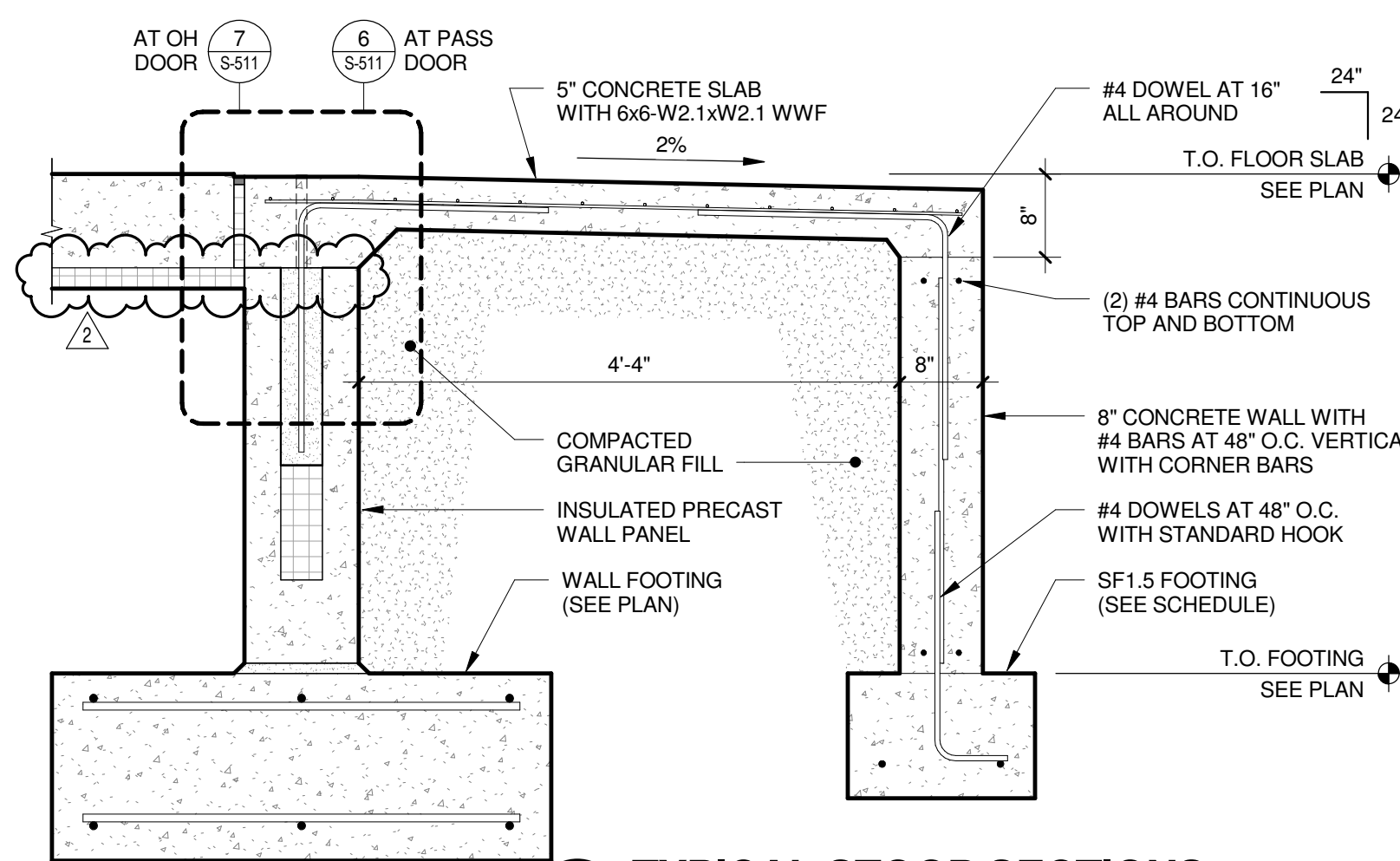
MISCELLANEOUS
FOUNDATION PLANS

S-401

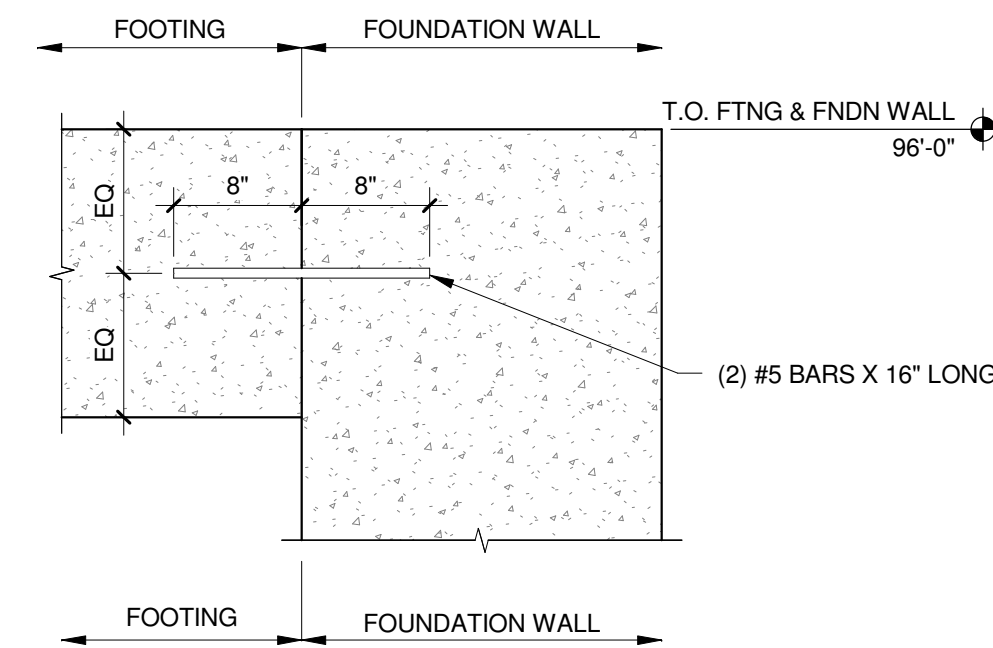
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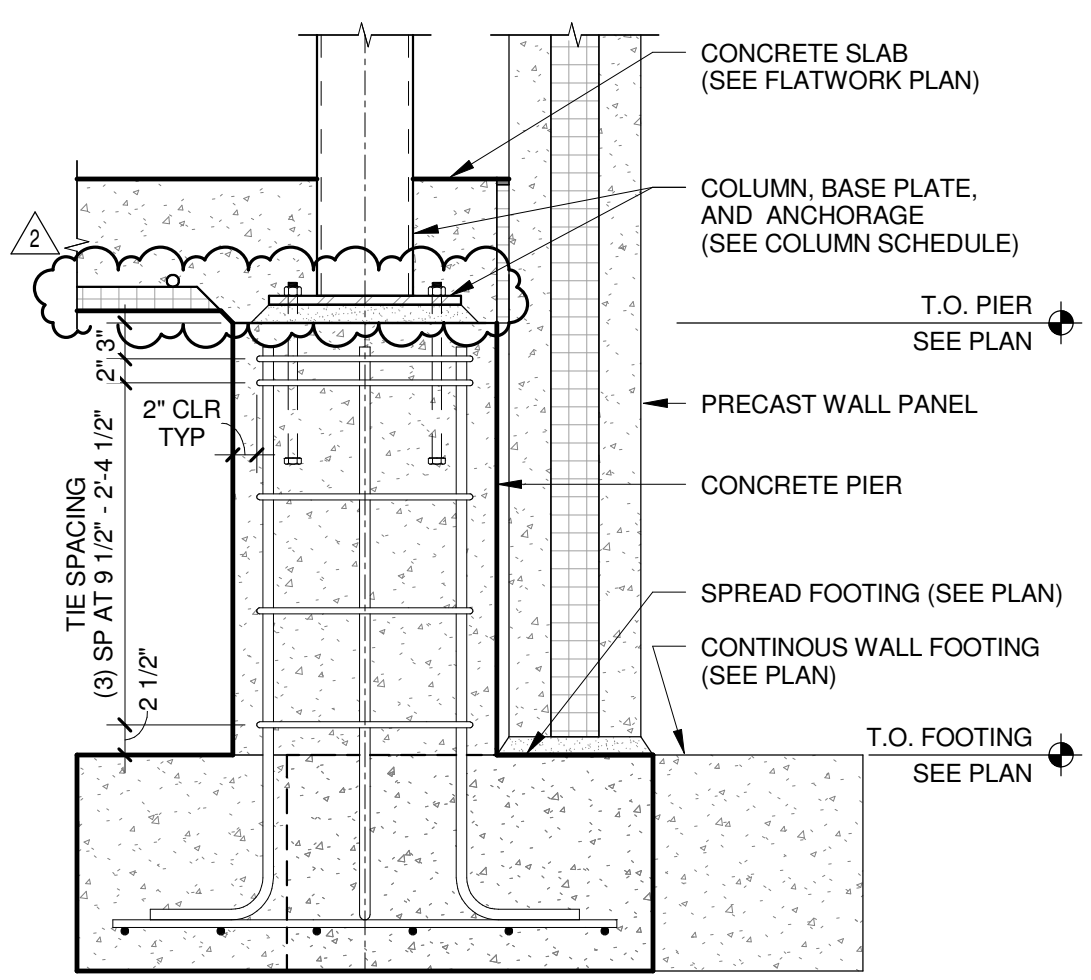
10 TYPICAL STOOP PLAN VIEW
1/2" = 1'-0"



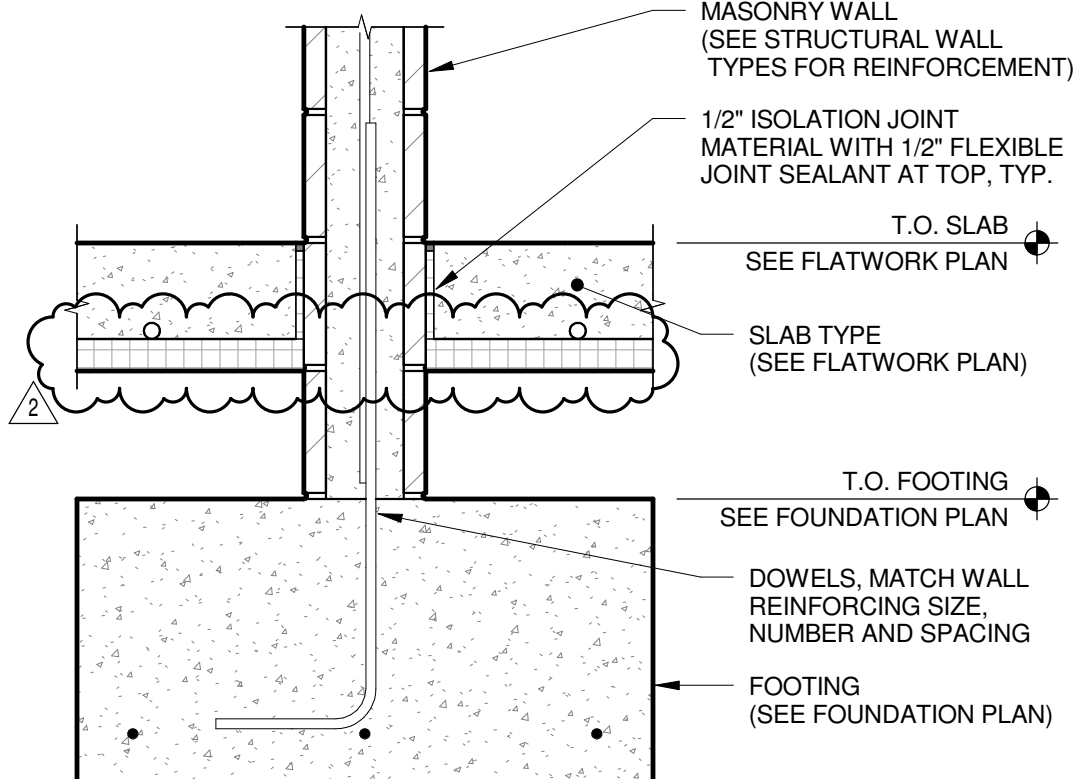
11 TYPICAL STOOP SECTIONS
3/4" = 1'-0"



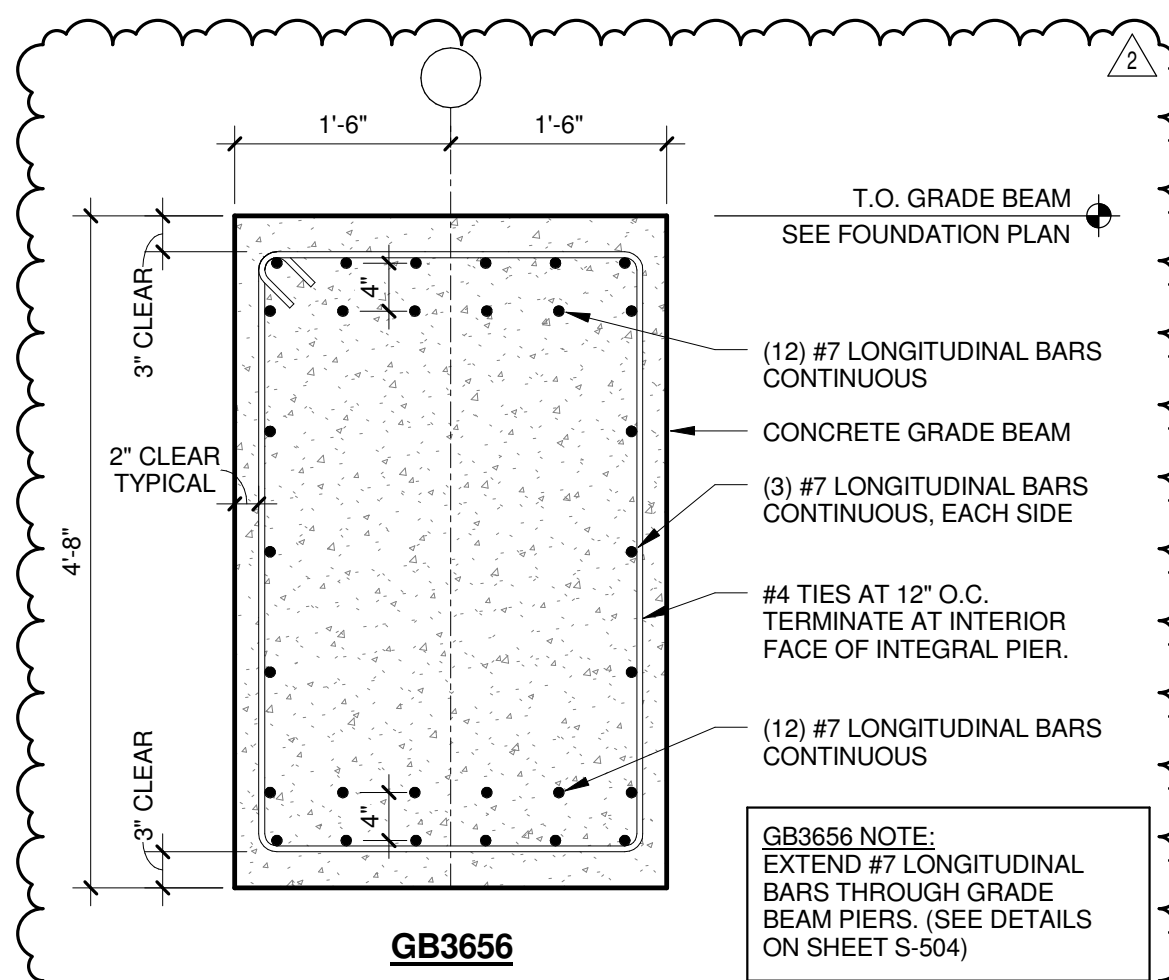
15 FOUNDATION WALL AT FOOTING
1" = 1'-0"



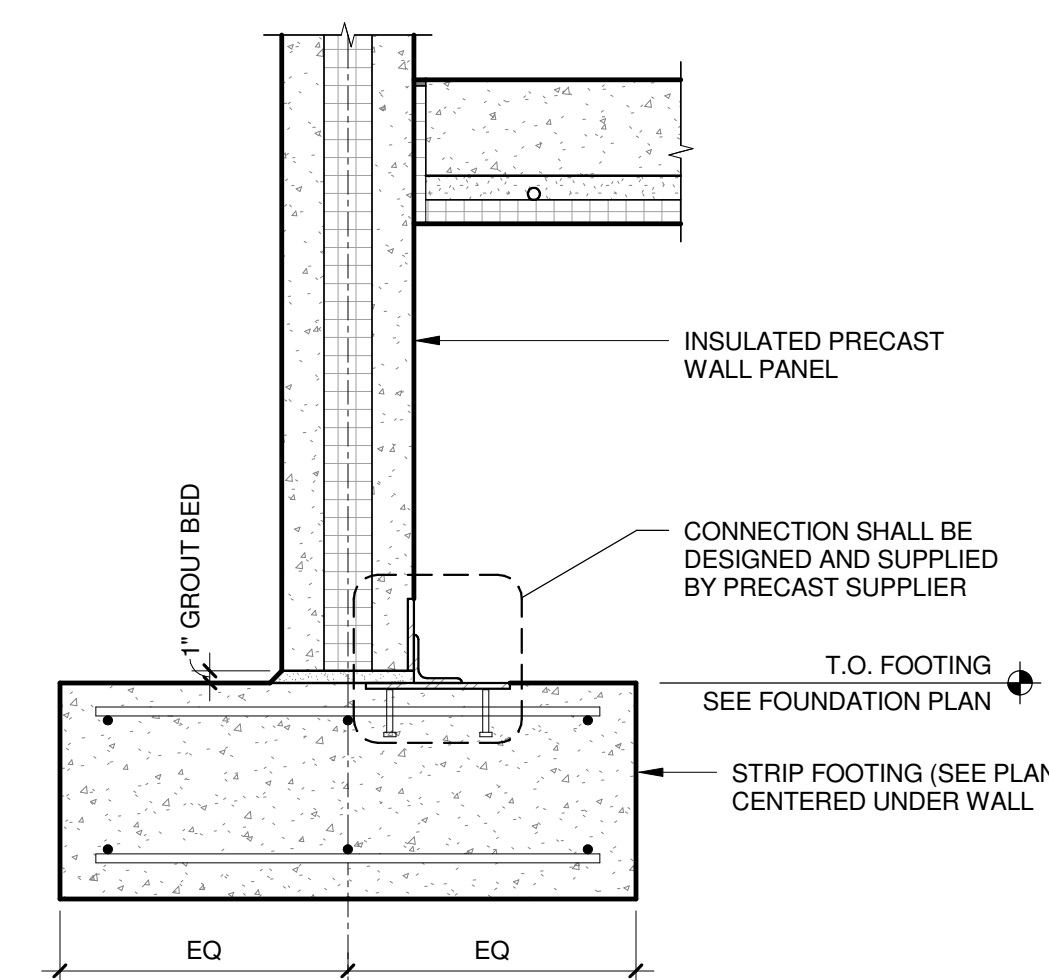
12 TYPICAL PIER SECTION
3/4" = 1'-0"



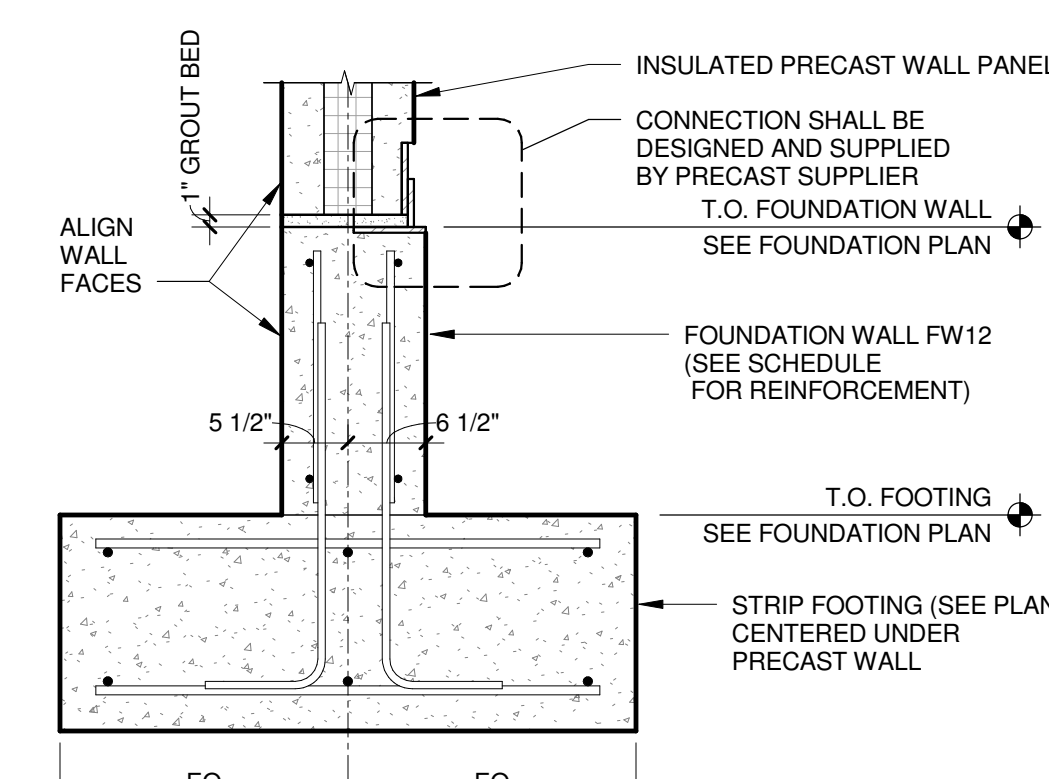
13 TYPICAL INTERIOR CMU WALL FOOTING
1" = 1'-0"



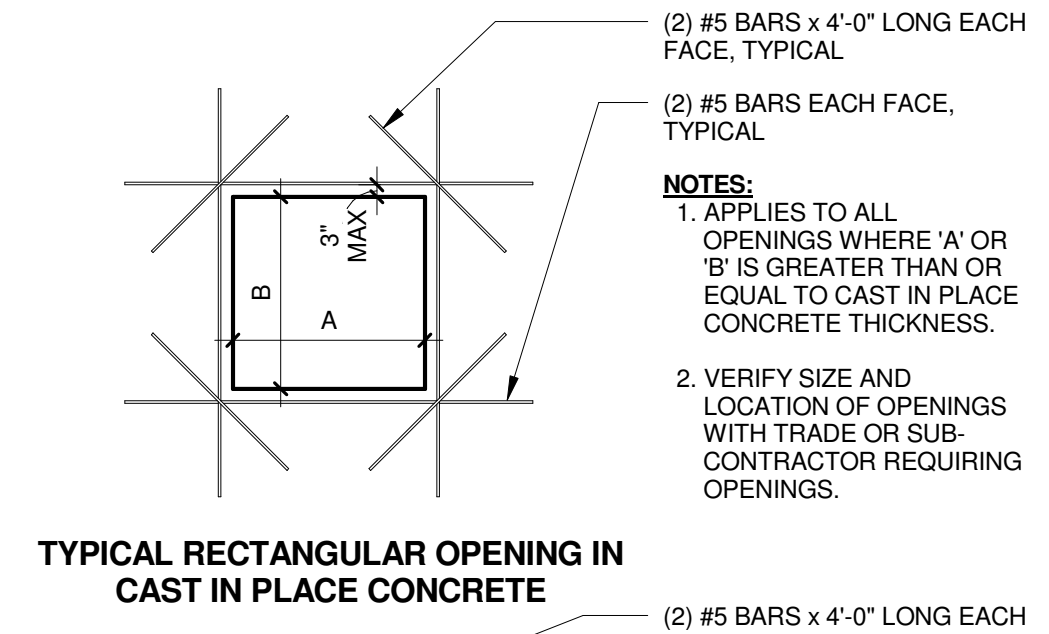
7 GRADE BEAMS
3/4" = 1'-0"



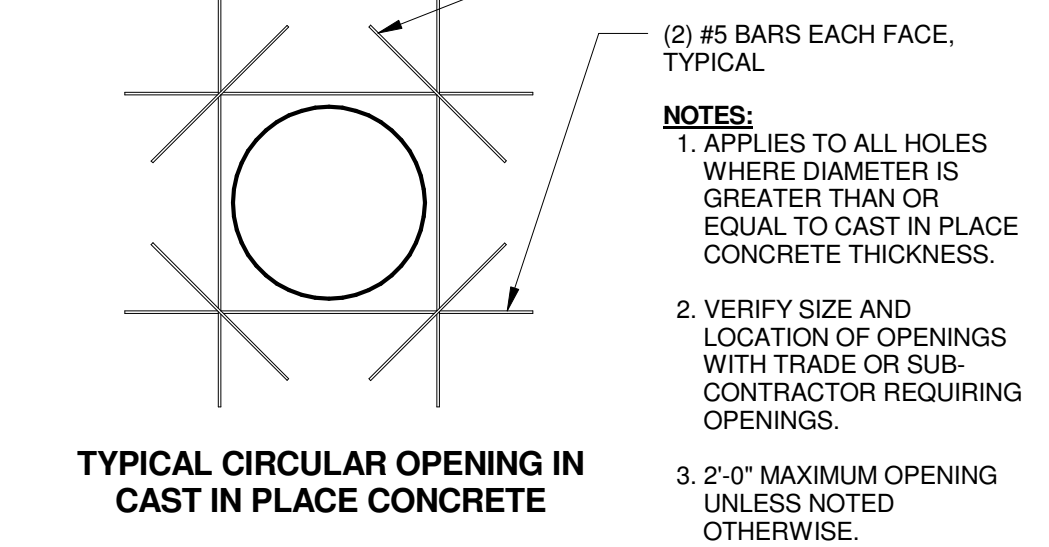
8 PRECAST WALL AT FOOTING
3/4" = 1'-0"



9 PRECAST WALL AT DROPPED FOOTING
3/4" = 1'-0"

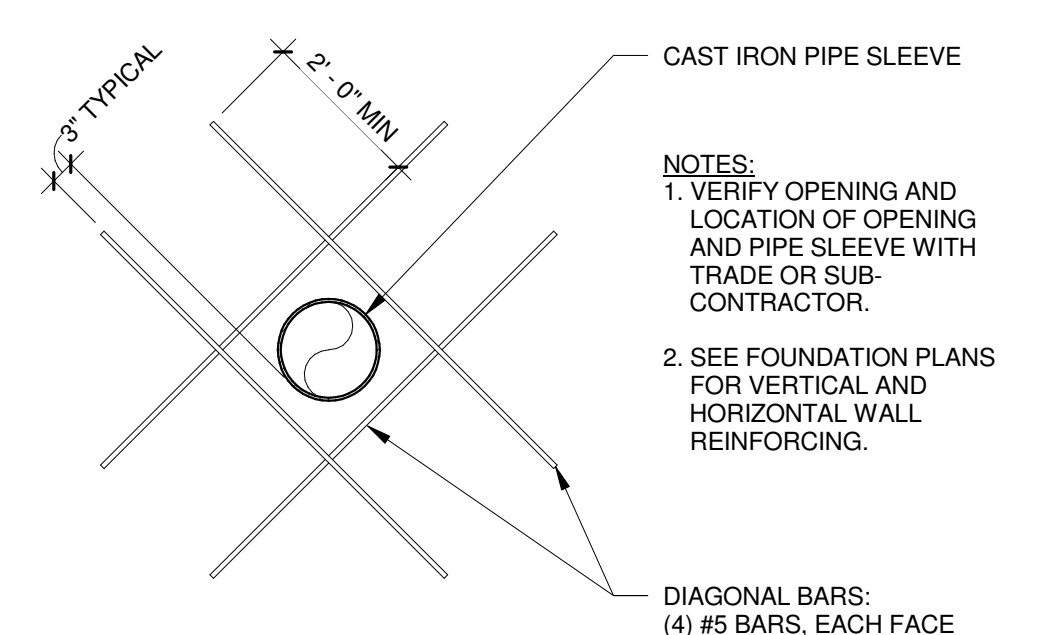


TYPICAL RECTANGULAR OPENING IN CAST IN PLACE CONCRETE

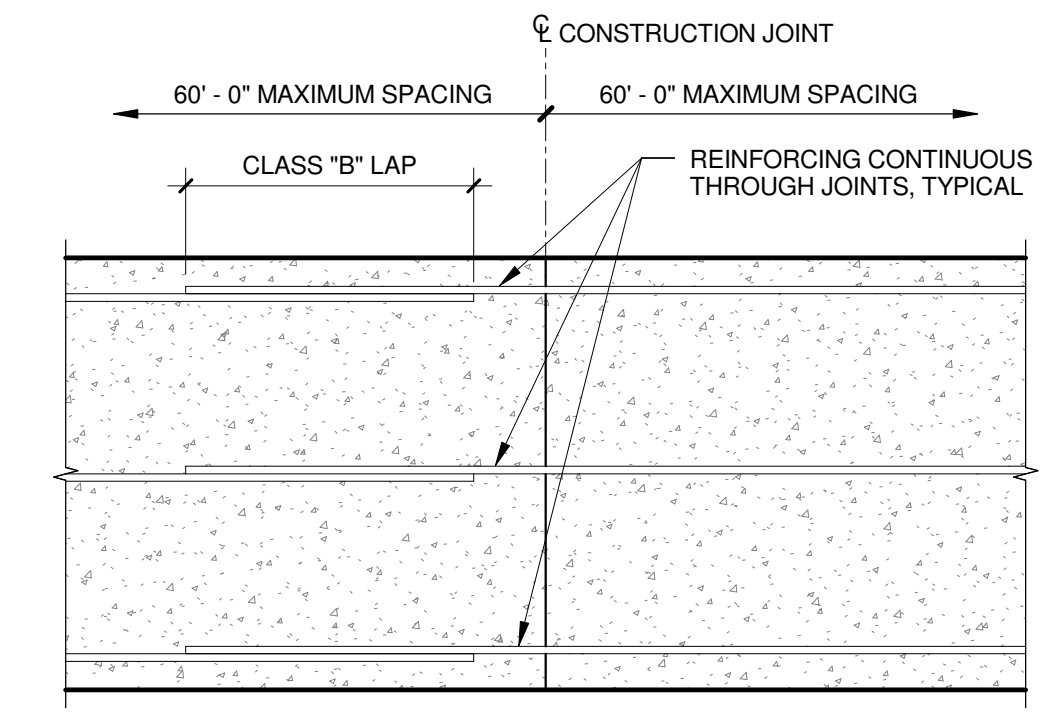


TYPICAL CIRCULAR OPENING IN CAST IN PLACE CONCRETE

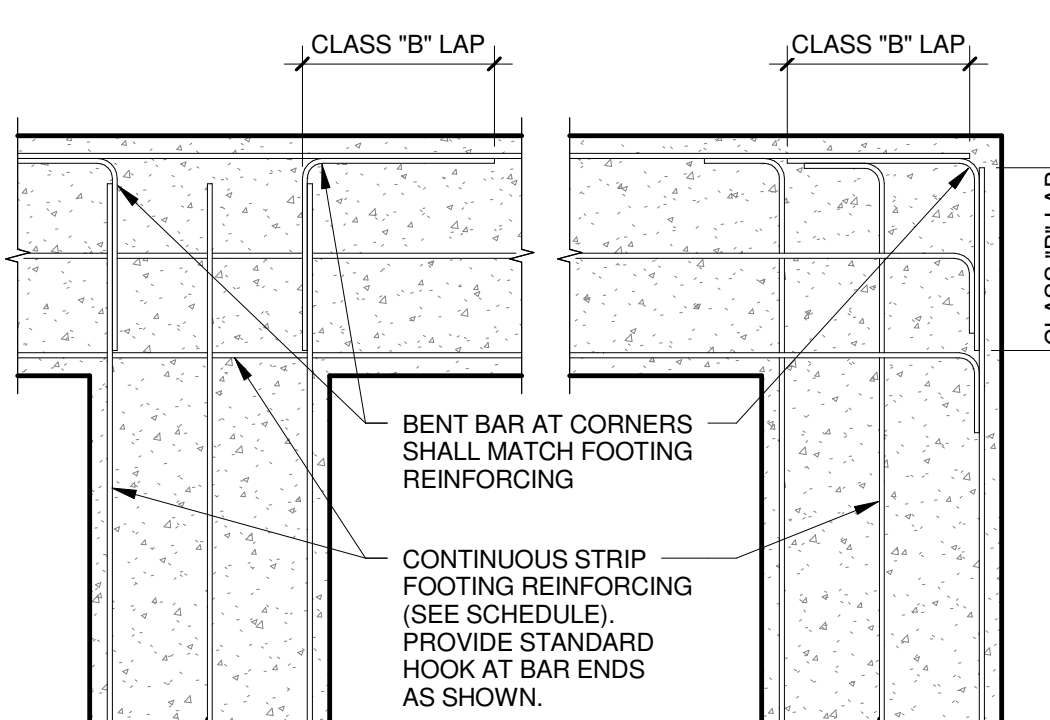
5 TYPICAL CONCRETE PENETRATION REINFORCEMENT
NO SCALE



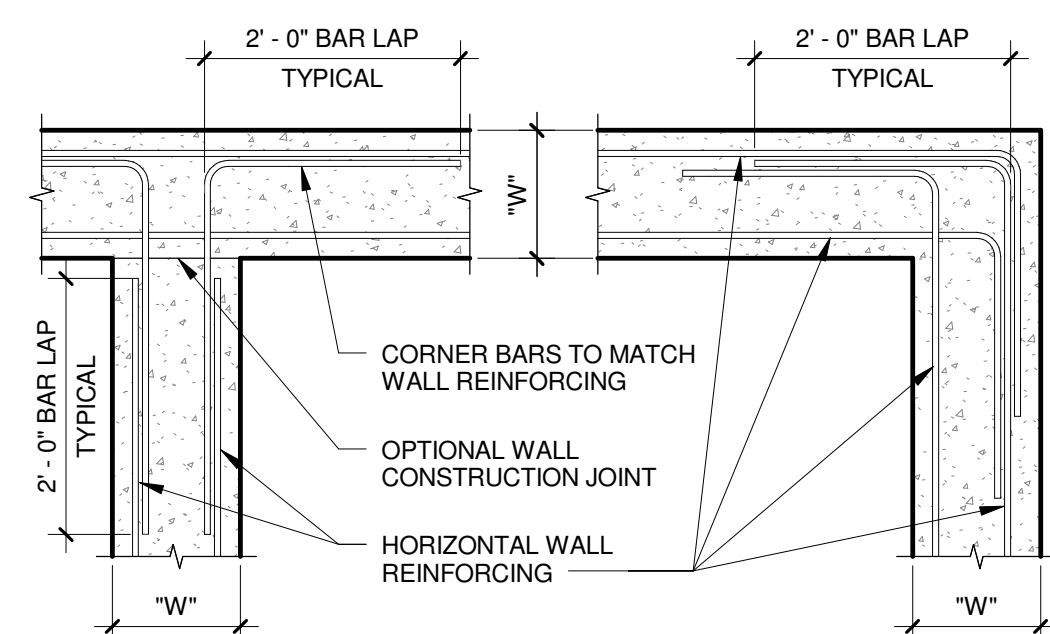
6 FOUNDATION WALL PENETRATION
NO SCALE



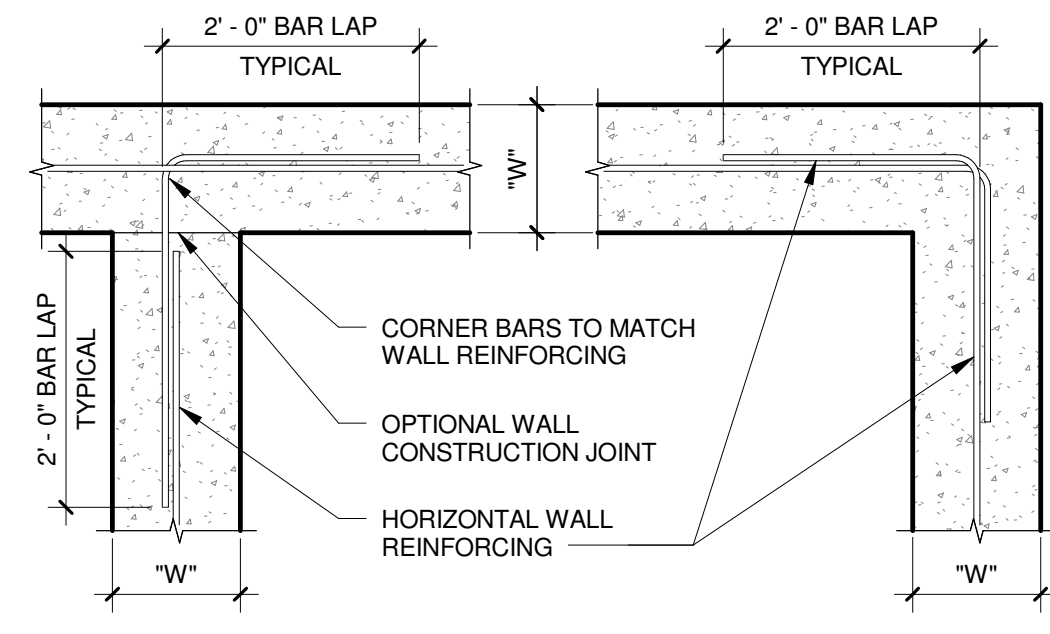
1 TYPICAL FOOTING CONSTRUCTION JOINT
NO SCALE



2 TYPICAL FOOTING INTERSECTIONS
NO SCALE



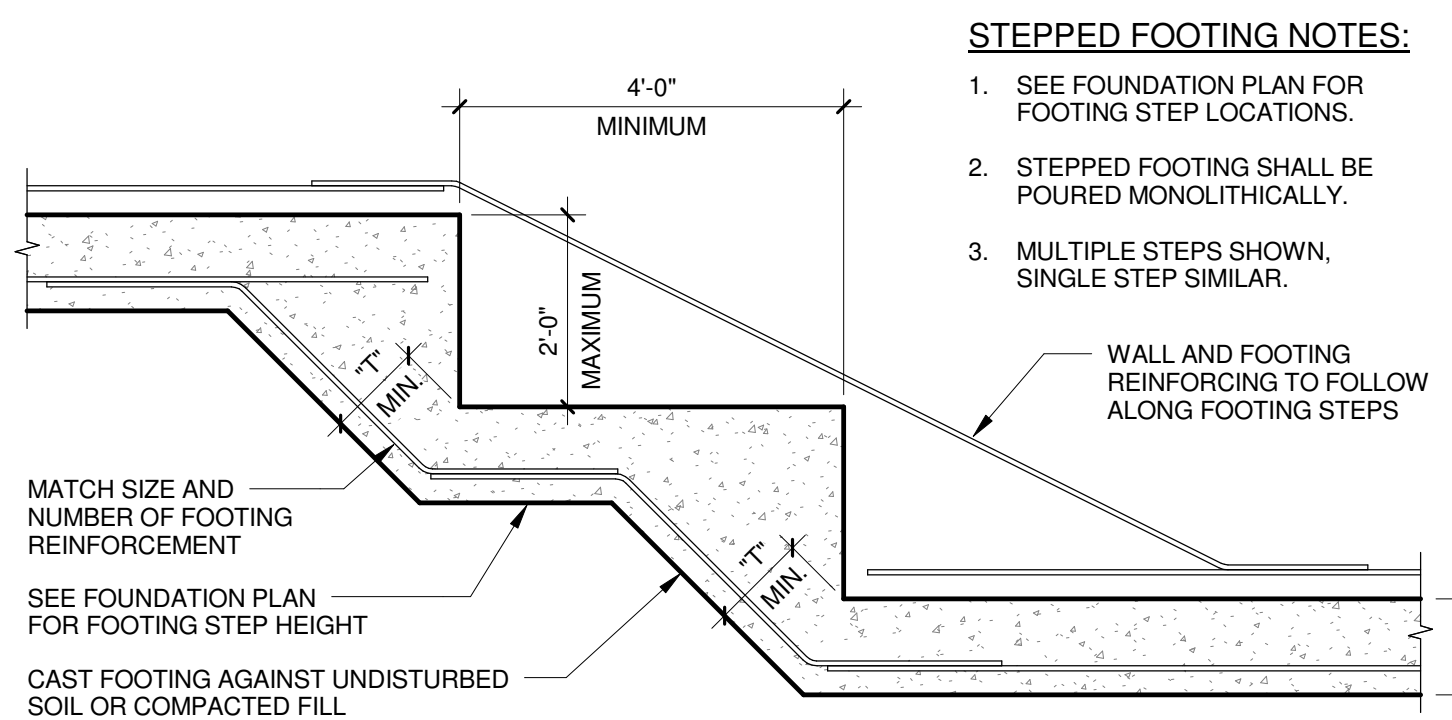
REINFORCEMENT EACH FACE



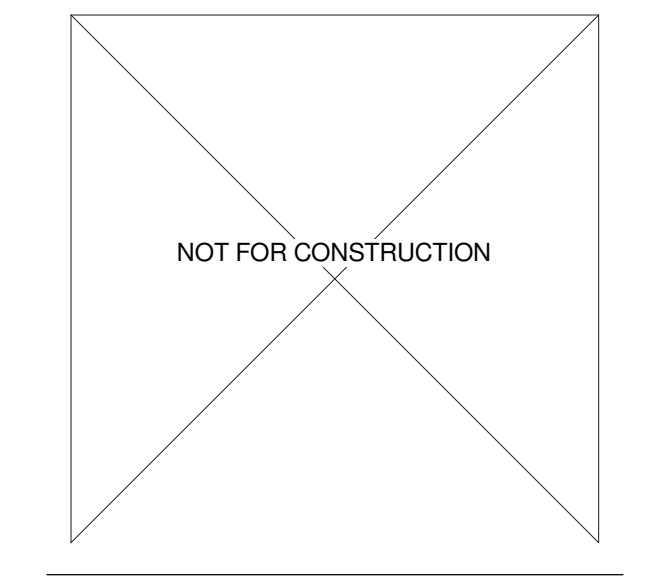
REINFORCEMENT CENTERED

NOTES:
1. VERTICAL REINFORCING NOT SHOWN FOR CLARITY.
2. FOUNDATION WALL LEDGE NOT SHOWN FOR CLARITY.
3. "W" = FOUNDATION WALL WIDTH.

3 TYPICAL FOUNDATION WALL INTERSECTIONS
NO SCALE



4 TYPICAL STEPPED FOOTING
NO SCALE



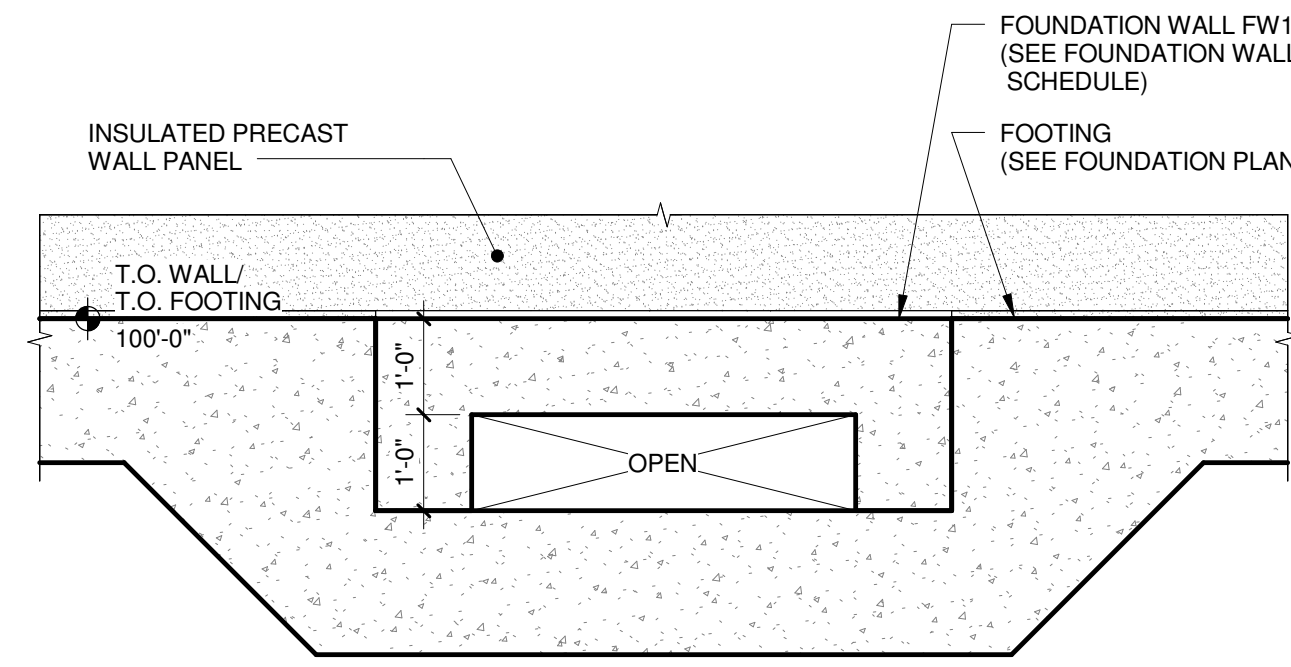
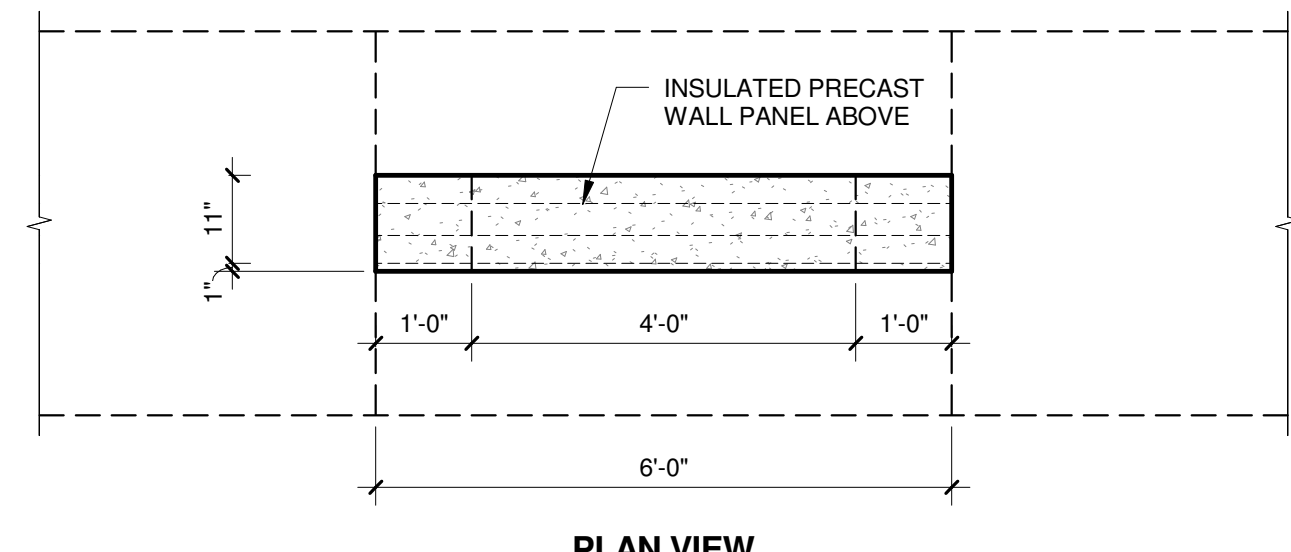
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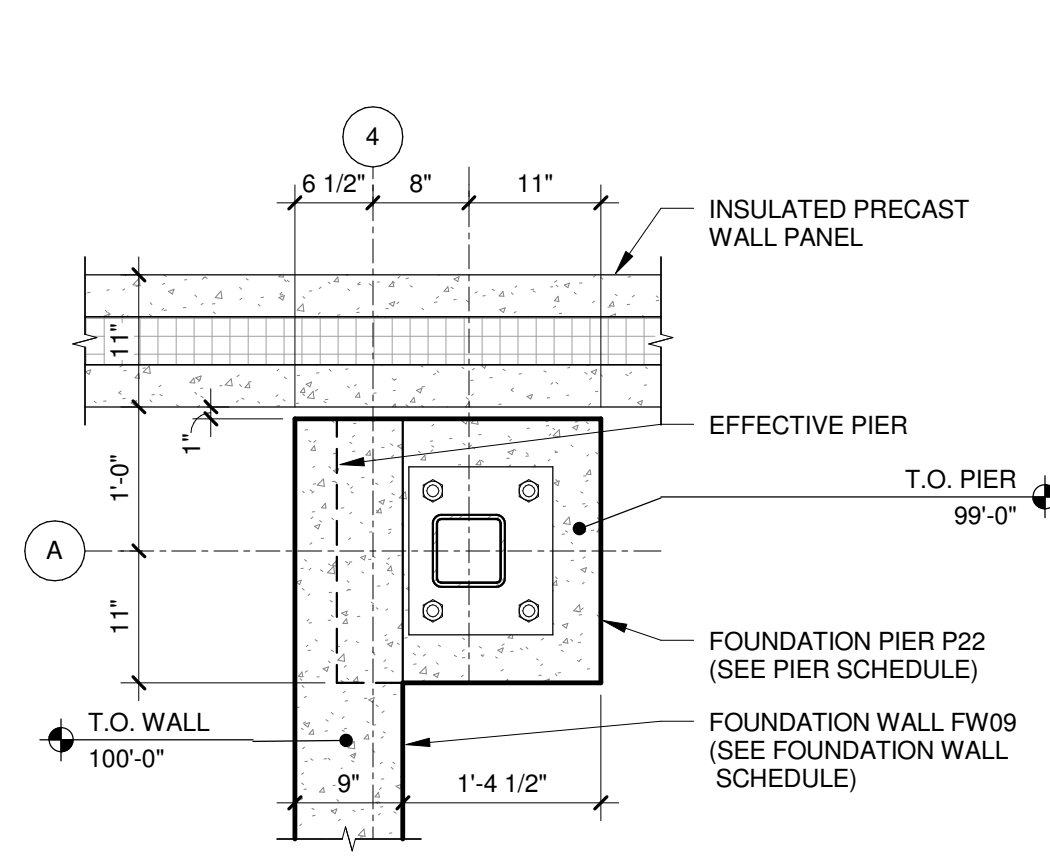
FOUNDATION DETAILS

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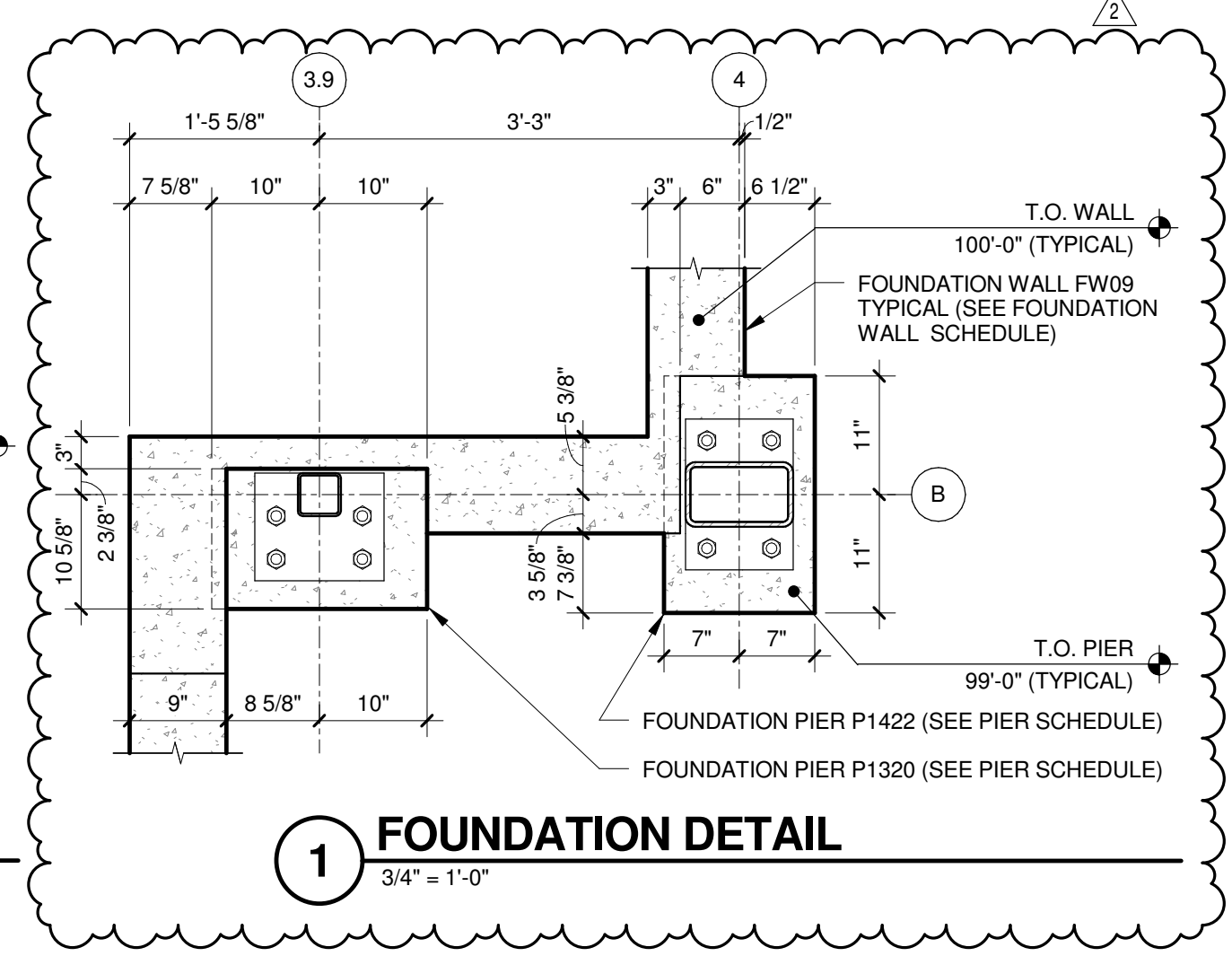
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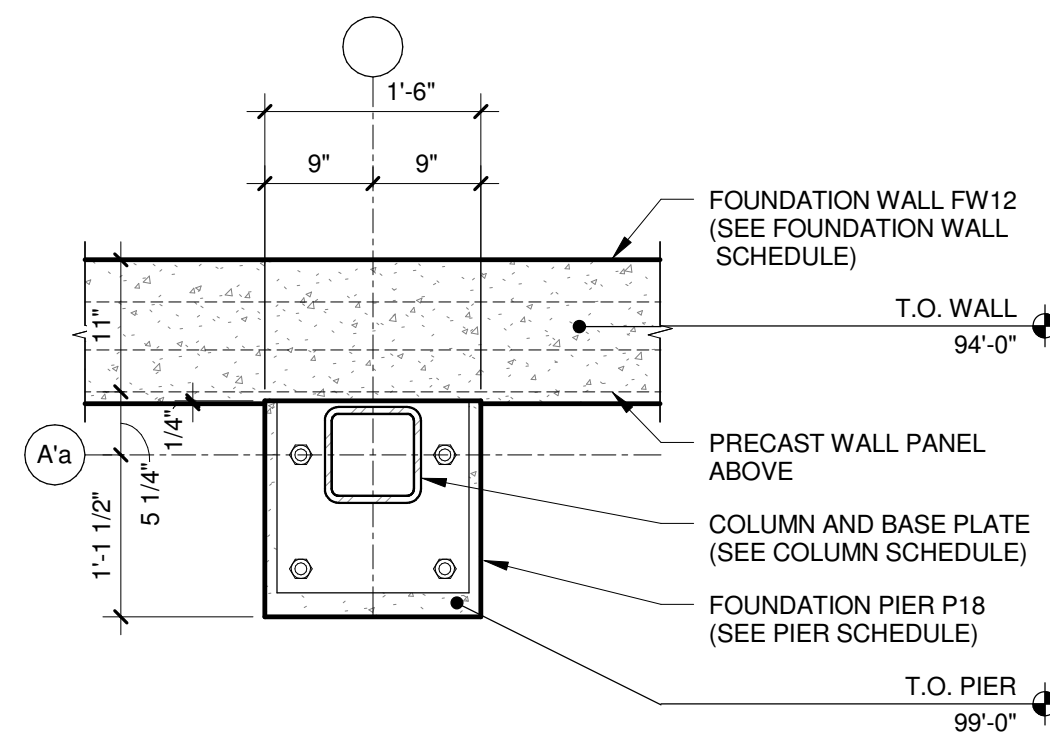
10 FOUNDATION DETAIL
1/2" = 1'-0"



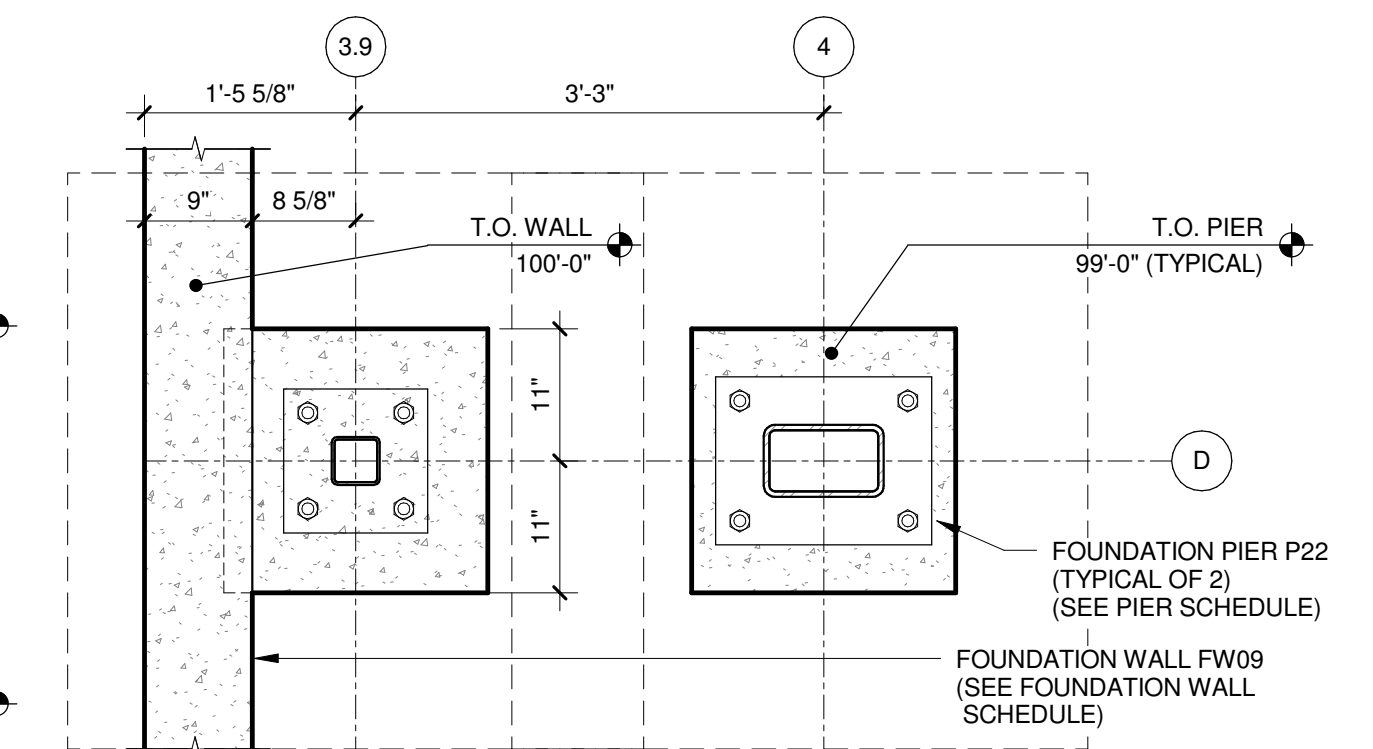
6 FOUNDATION DETAIL
3/4" = 1'-0"



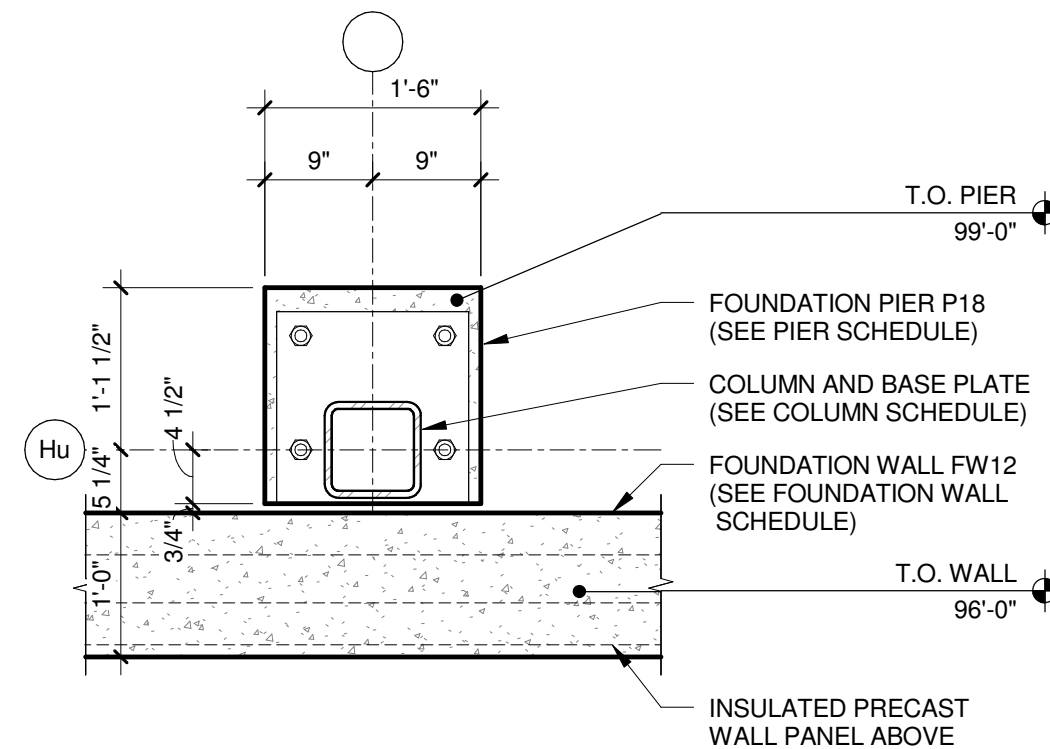
1 FOUNDATION DETAIL
3/4" = 1'-0"



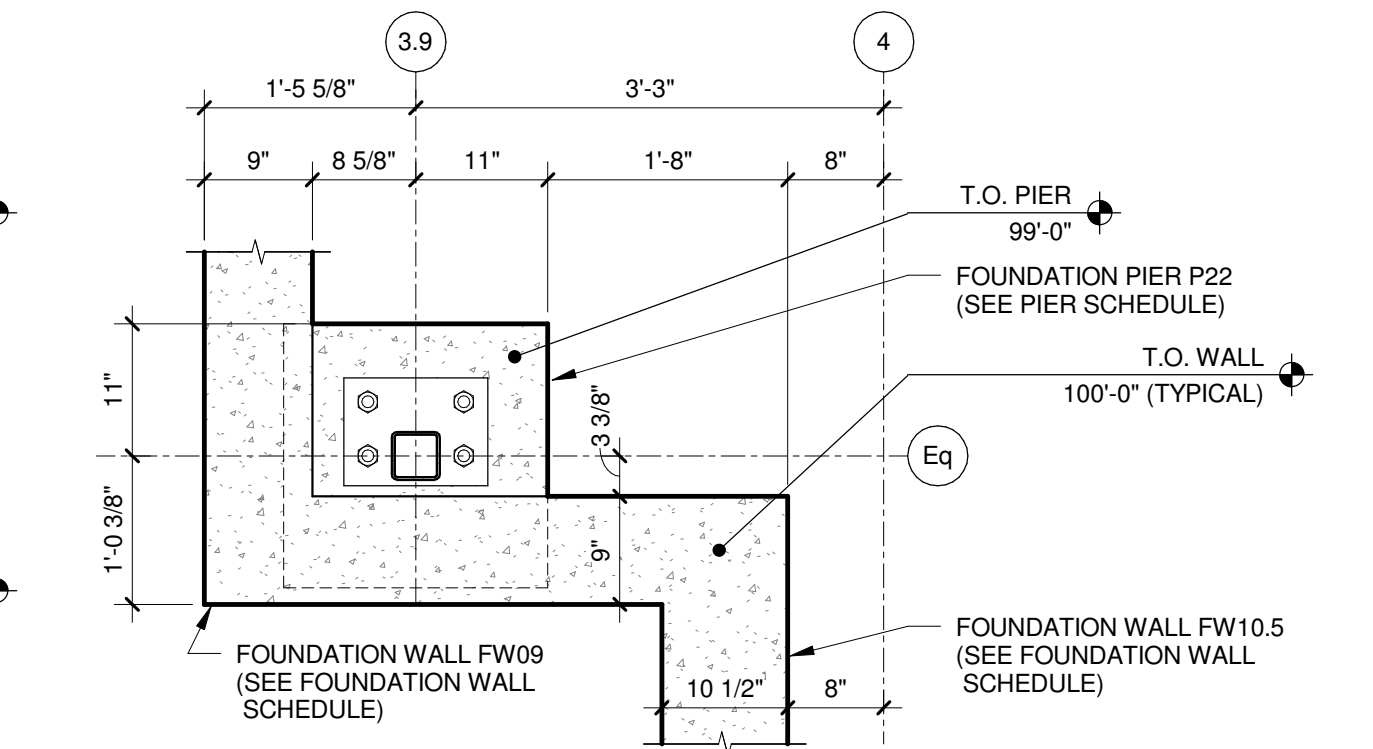
7 FOUNDATION DETAIL
3/4" = 1'-0"



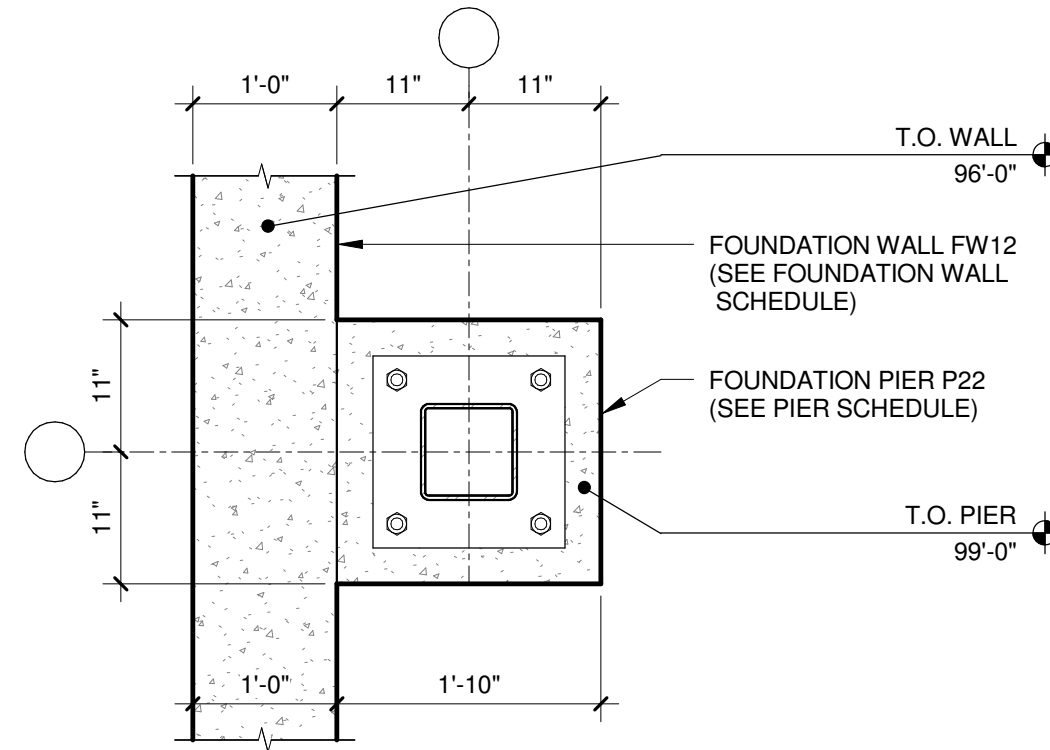
2 FOUNDATION DETAIL
3/4" = 1'-0"



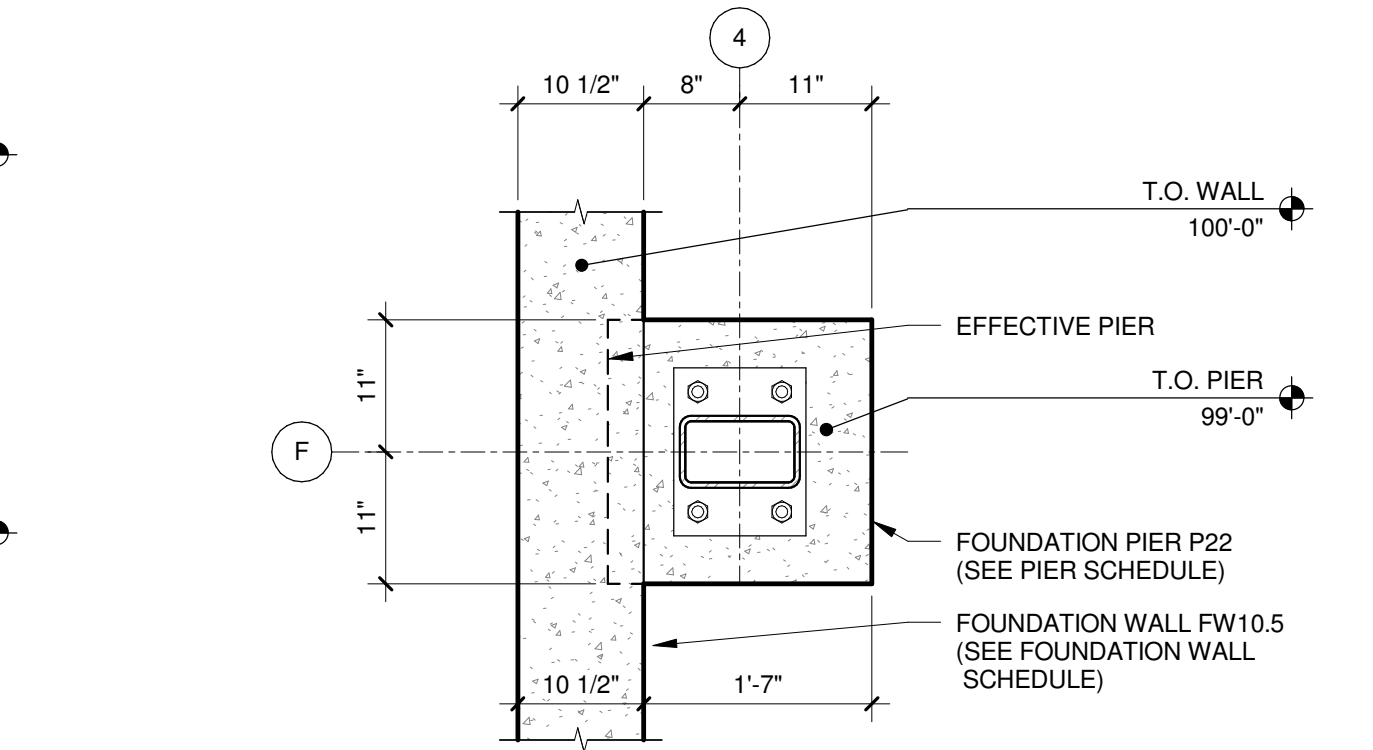
8 FOUNDATION DETAIL
3/4" = 1'-0"



3 FOUNDATION DETAIL
3/4" = 1'-0"



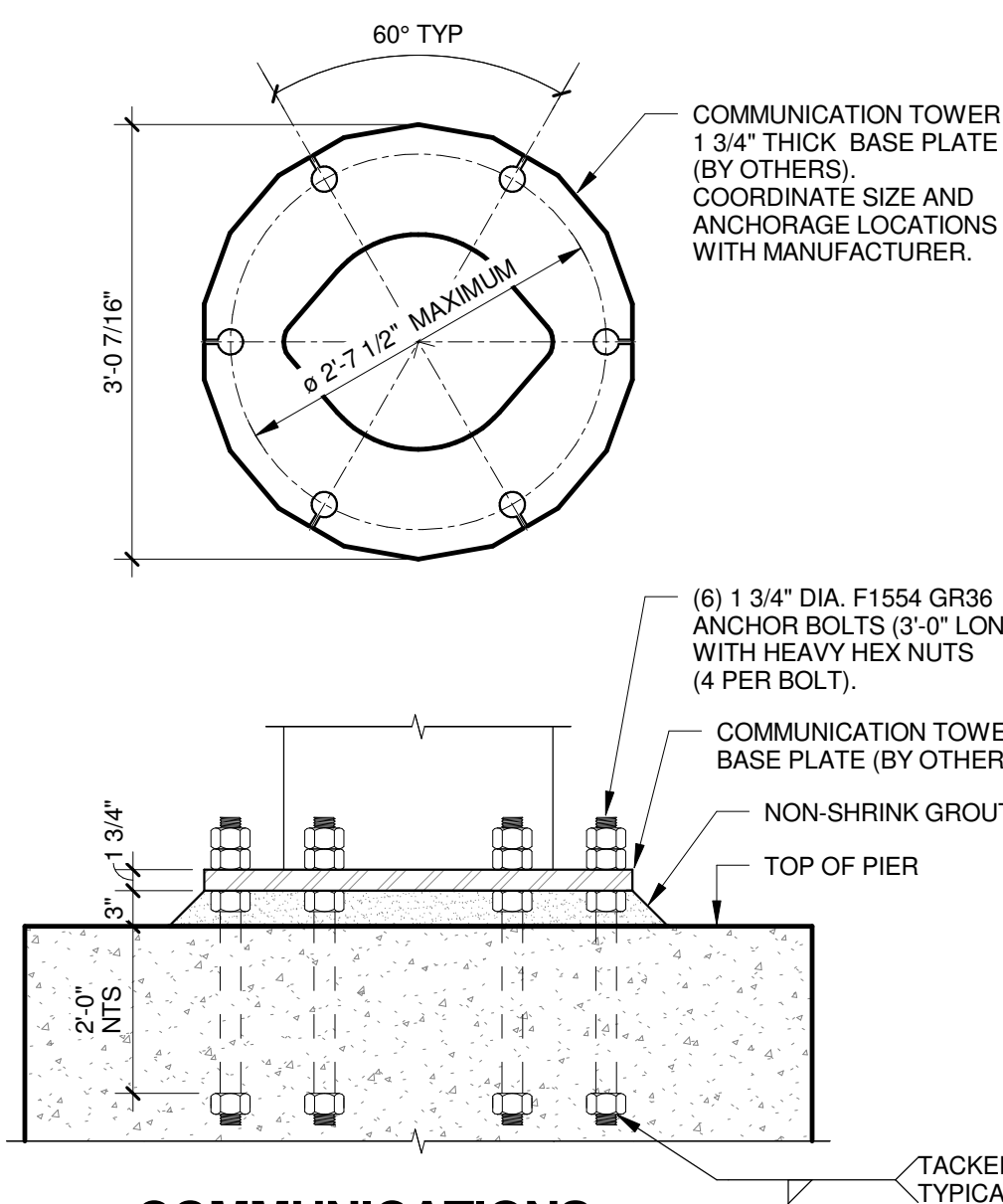
9 FOUNDATION DETAIL
3/4" = 1'-0"



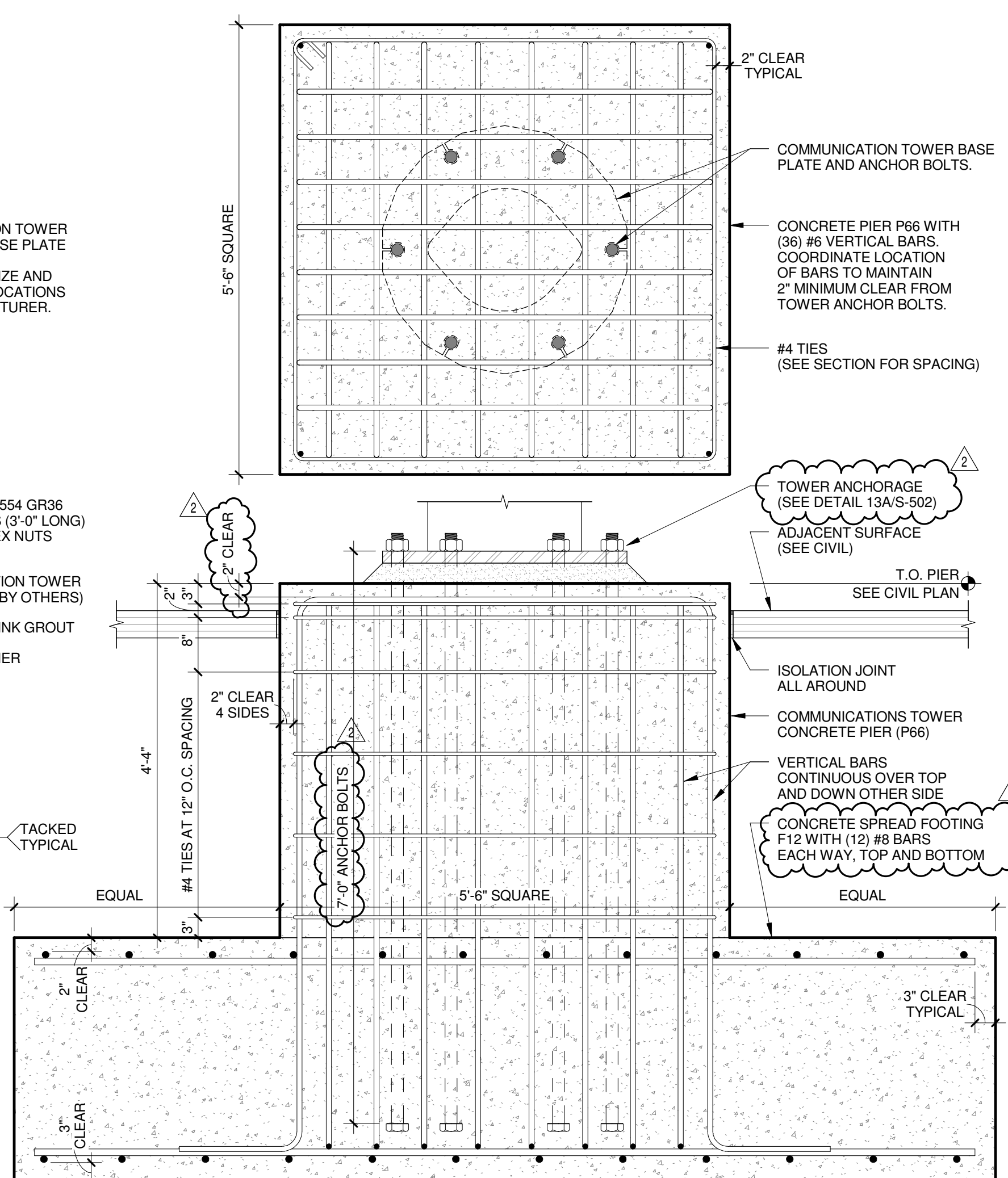
4 FOUNDATION DETAIL
3/4" = 1'-0"



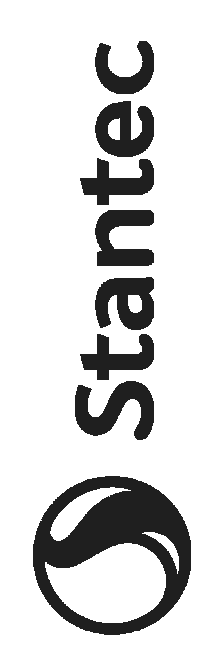
5 FOUNDATION DETAIL
3/4" = 1'-0"



13A COMMUNICATIONS TOWER ANCHORAGE
3/4" = 1'-0"



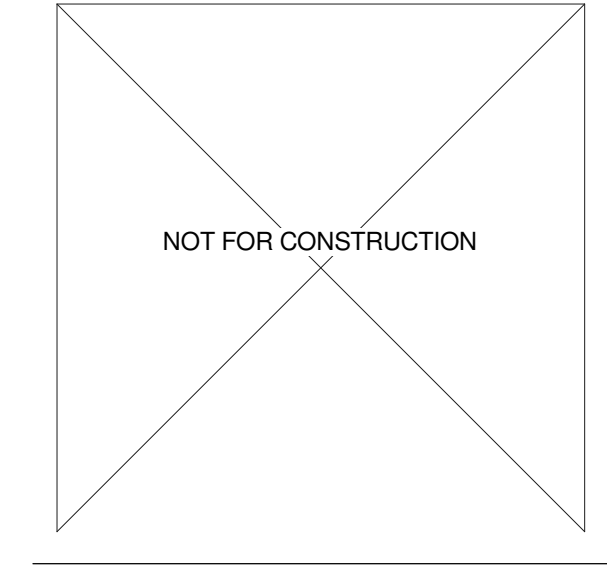
13 COMMUNICATIONS TOWER FOUNDATION
3/4" = 1'-0"



Mead & Hunt
Mead & Hunt, Inc.
2440 Dering Way
Middleton, WI 53562
phone: 608-273-6580
meadhunt.com

CITY OF MADISON
NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY

4141 NAKOOSA TRAIL
MADISON, WISCONSIN 53714
ISSUE FOR BID



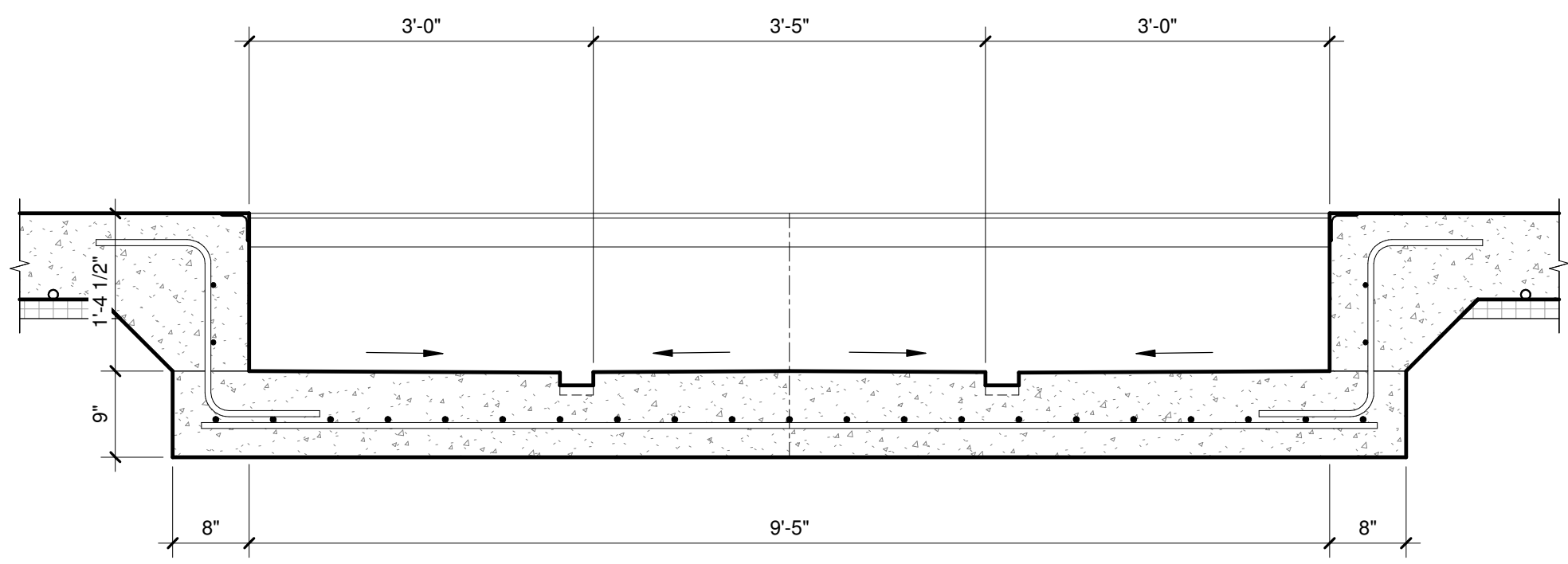
NO.	REVISION/SUBMISSION	DATE
2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019

PROJECT No: 1303500-160264.01

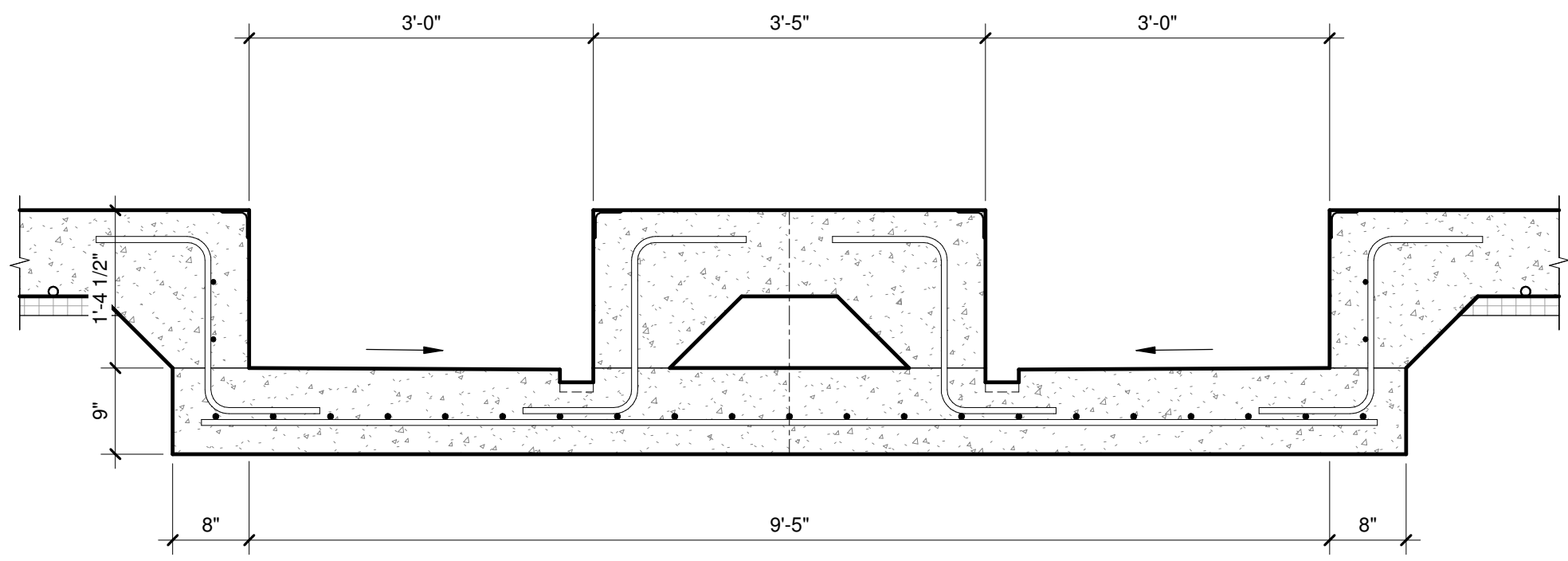
FOUNDATION DETAILS

S-502

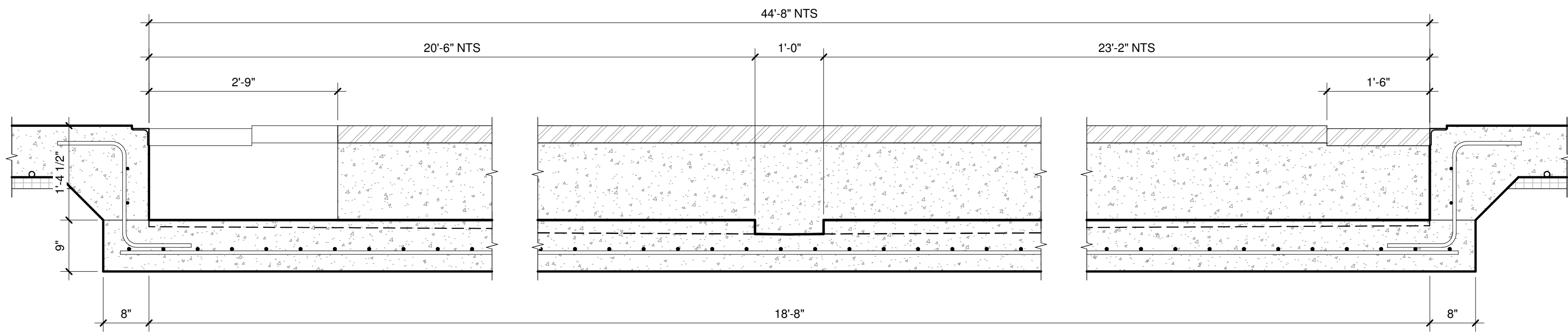
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DRAWN BY: MJC
CHECKED BY: MJC
DATE: 03/05/2019



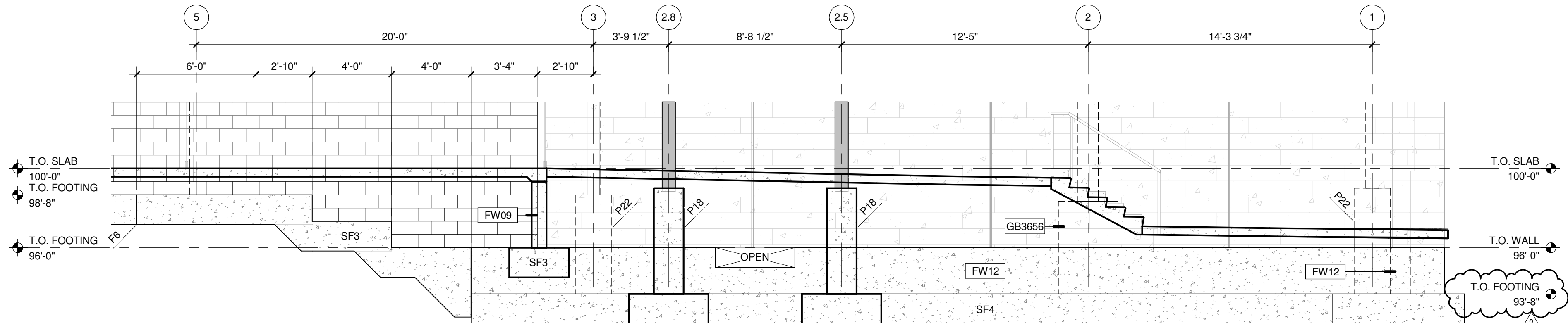
6 FOUNDATION SECTION AT LIFT
3/4" = 1'-0"



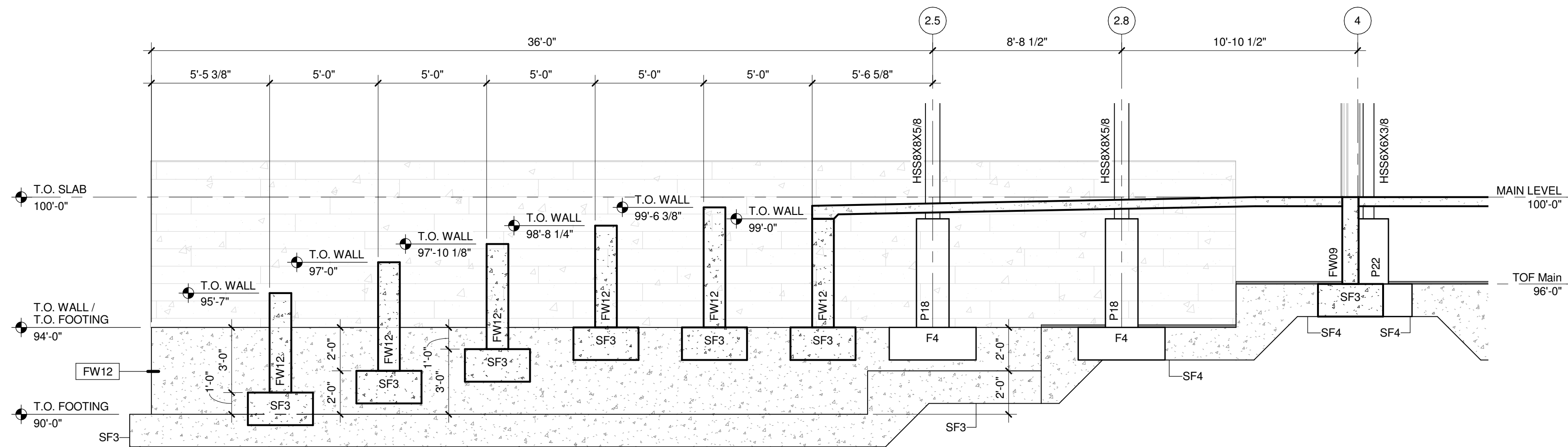
7 FOUNDATION SECTION AT LIFT
3/4" = 1'-0"



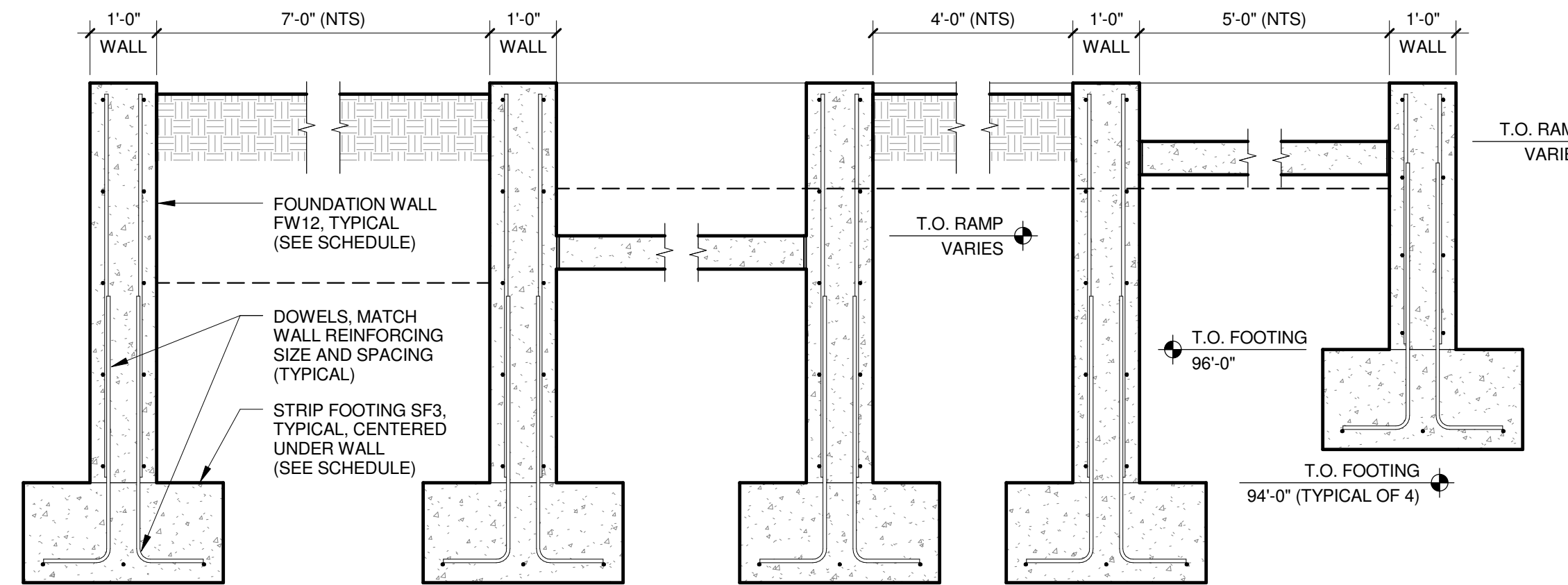
8 FOUNDATION SECTION AT LIFT
3/4" = 1'-0"



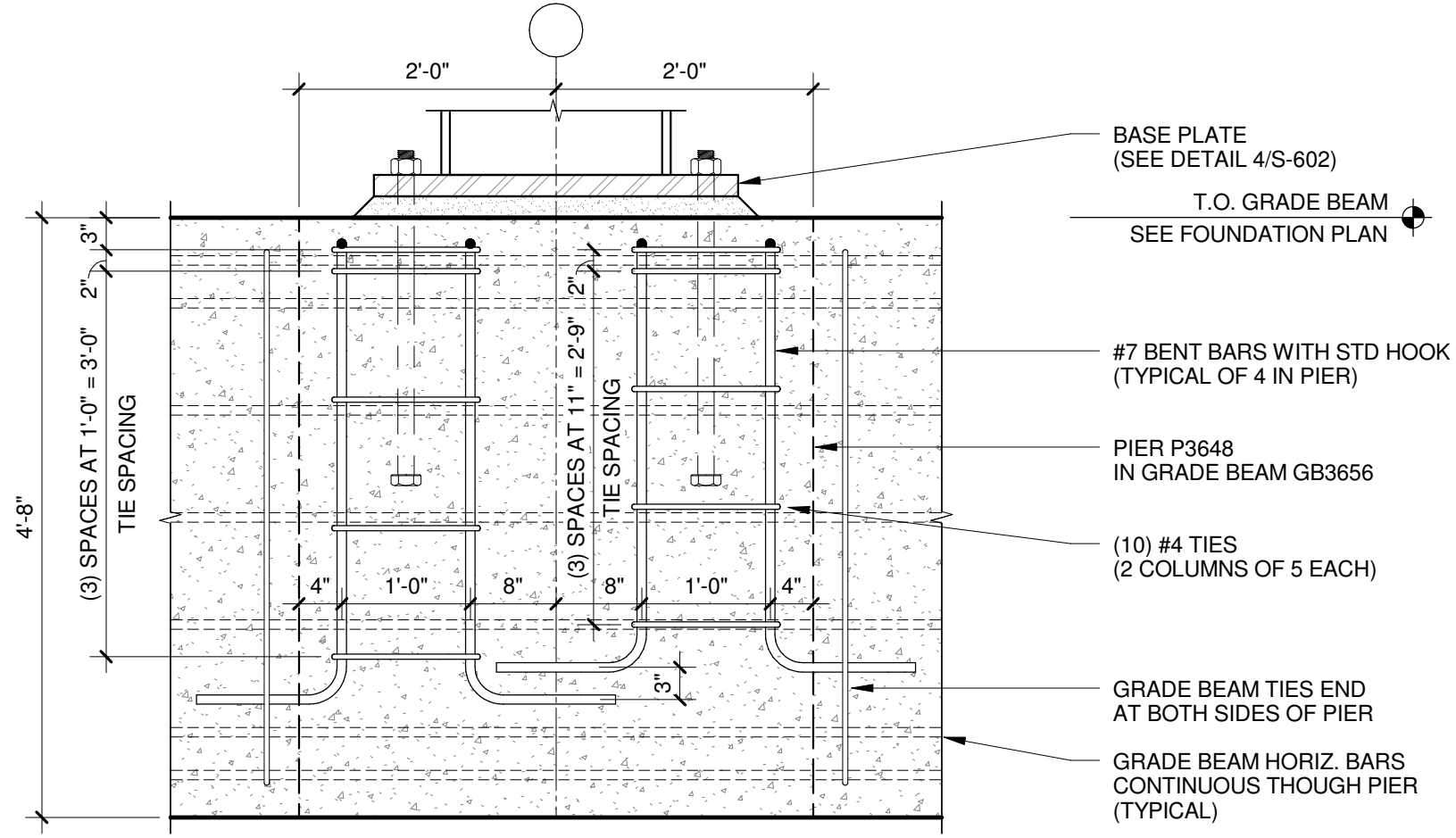
1 FOUNDATION ELEVATION (LOOKING SOUTH)
1/4" = 1'-0"



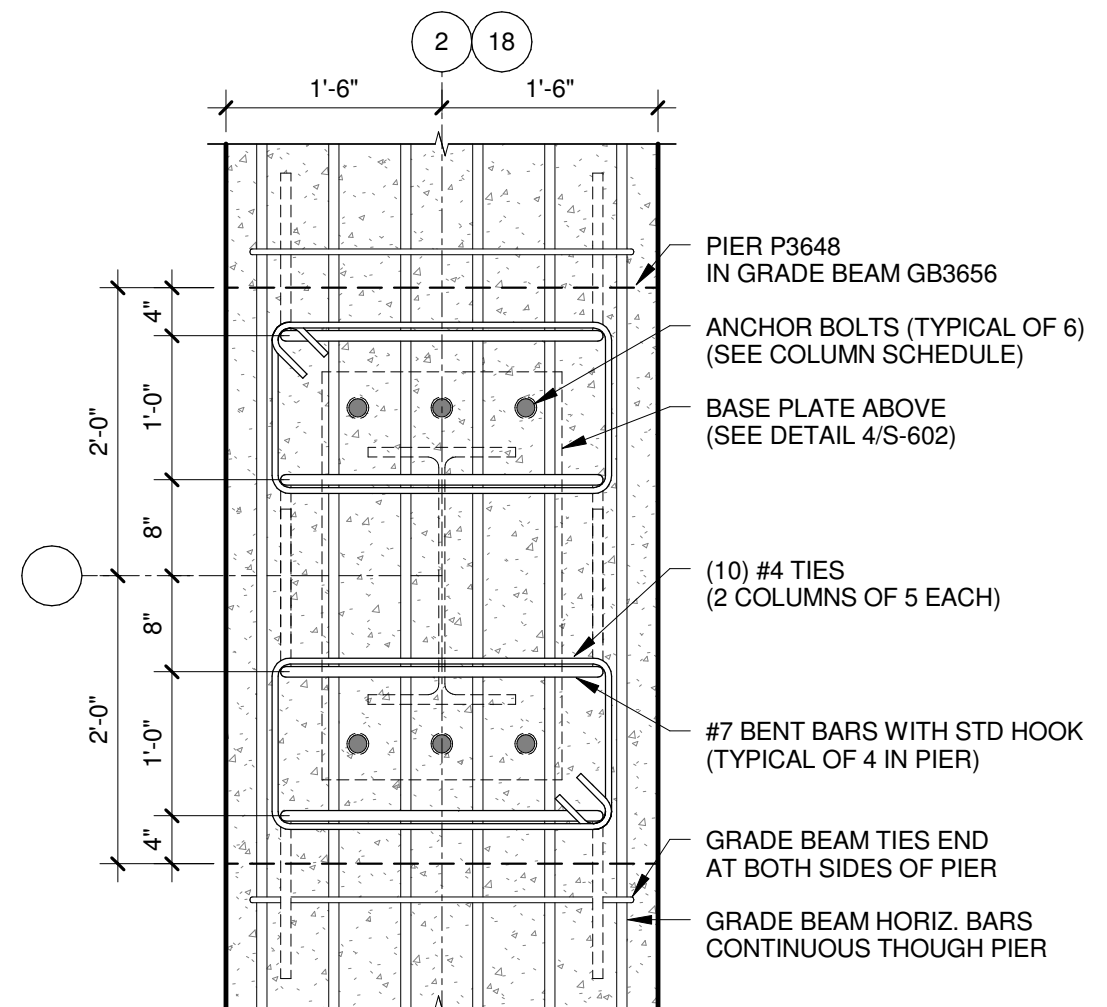
2 FOUNDATION SECTION
1/4" = 1'-0"



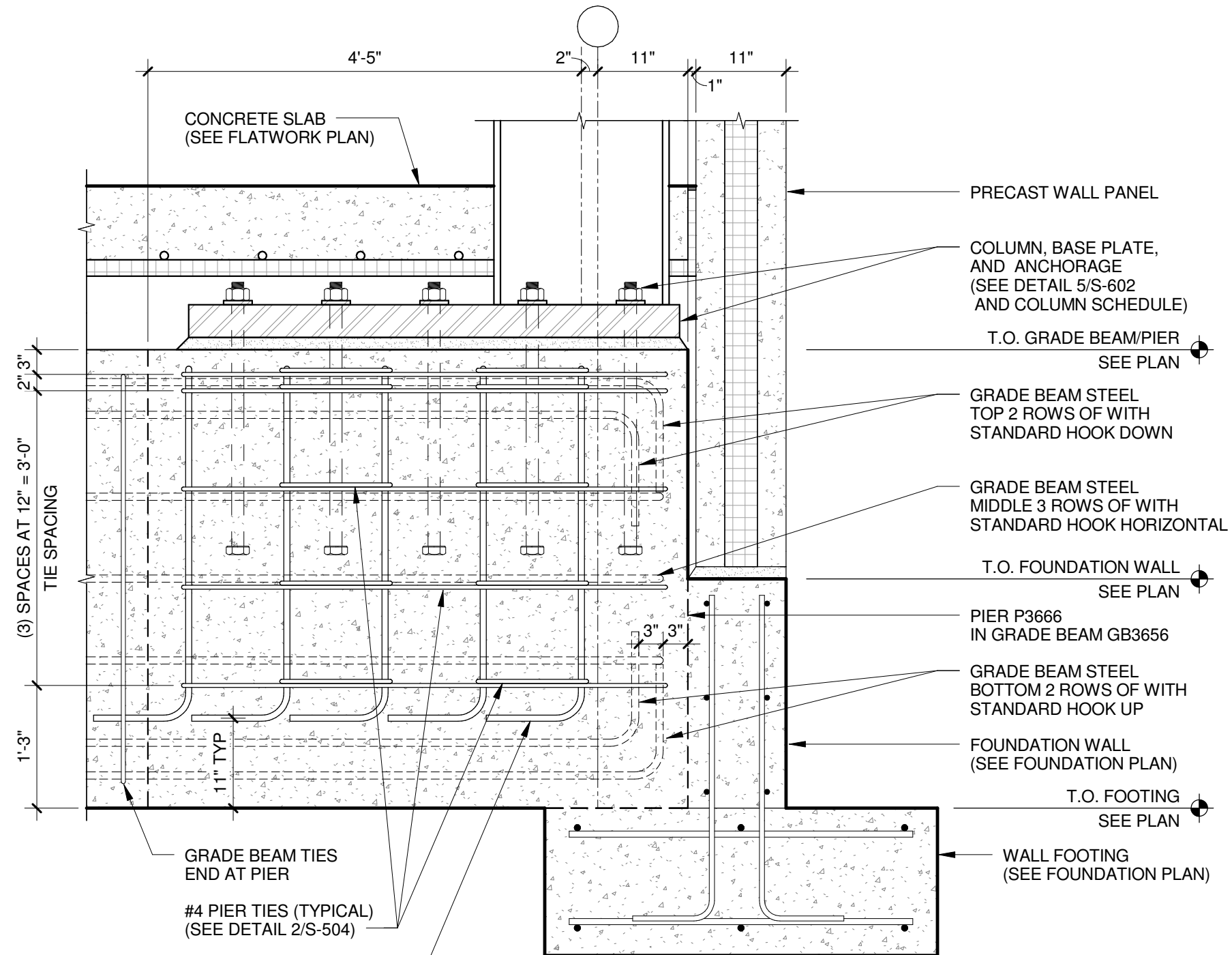
3 FOUNDATION SECTION AT RAMP
1/2" = 1'-0"



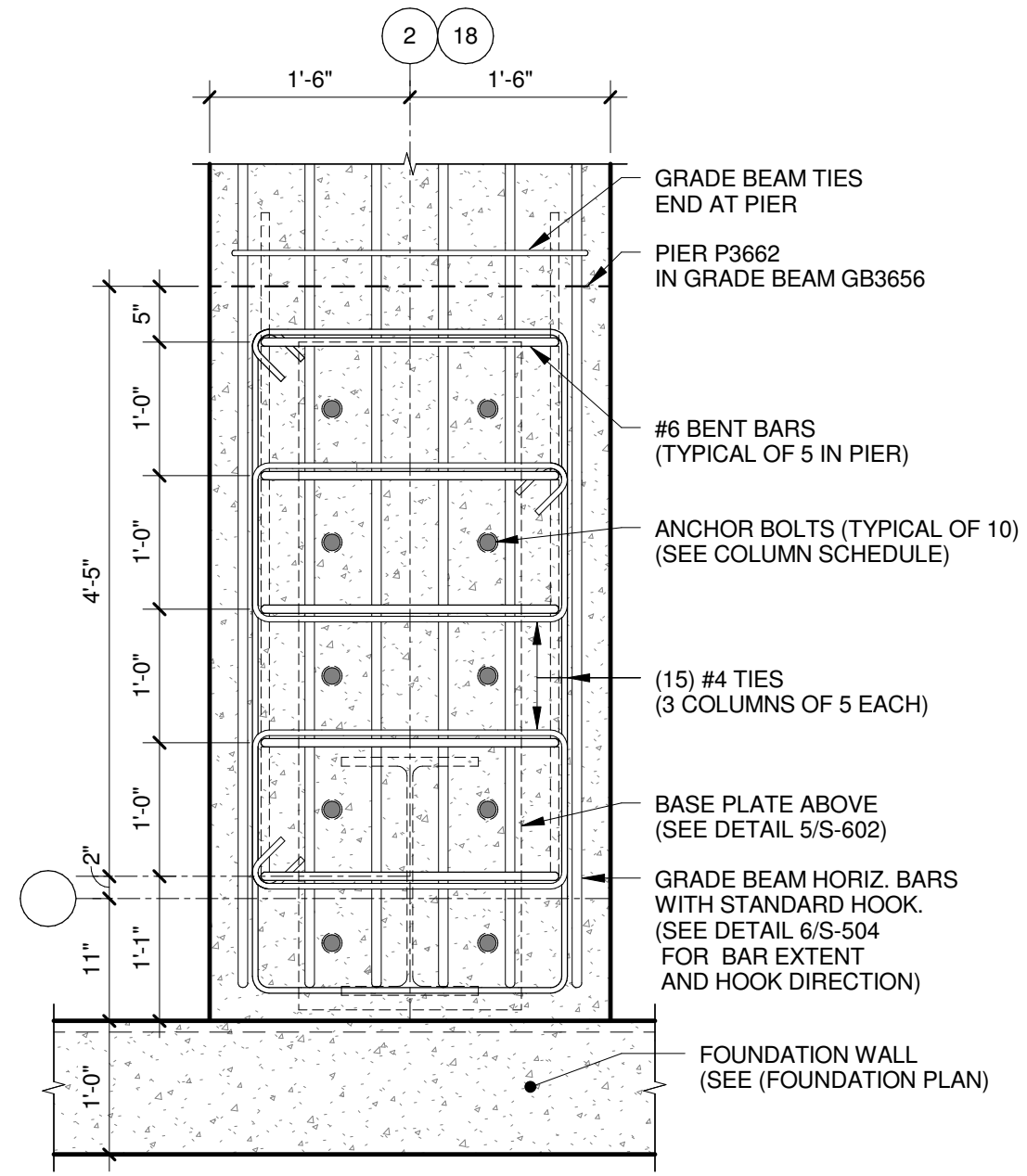
5 PIER P3648 SECTION
3/4" = 1'-0"



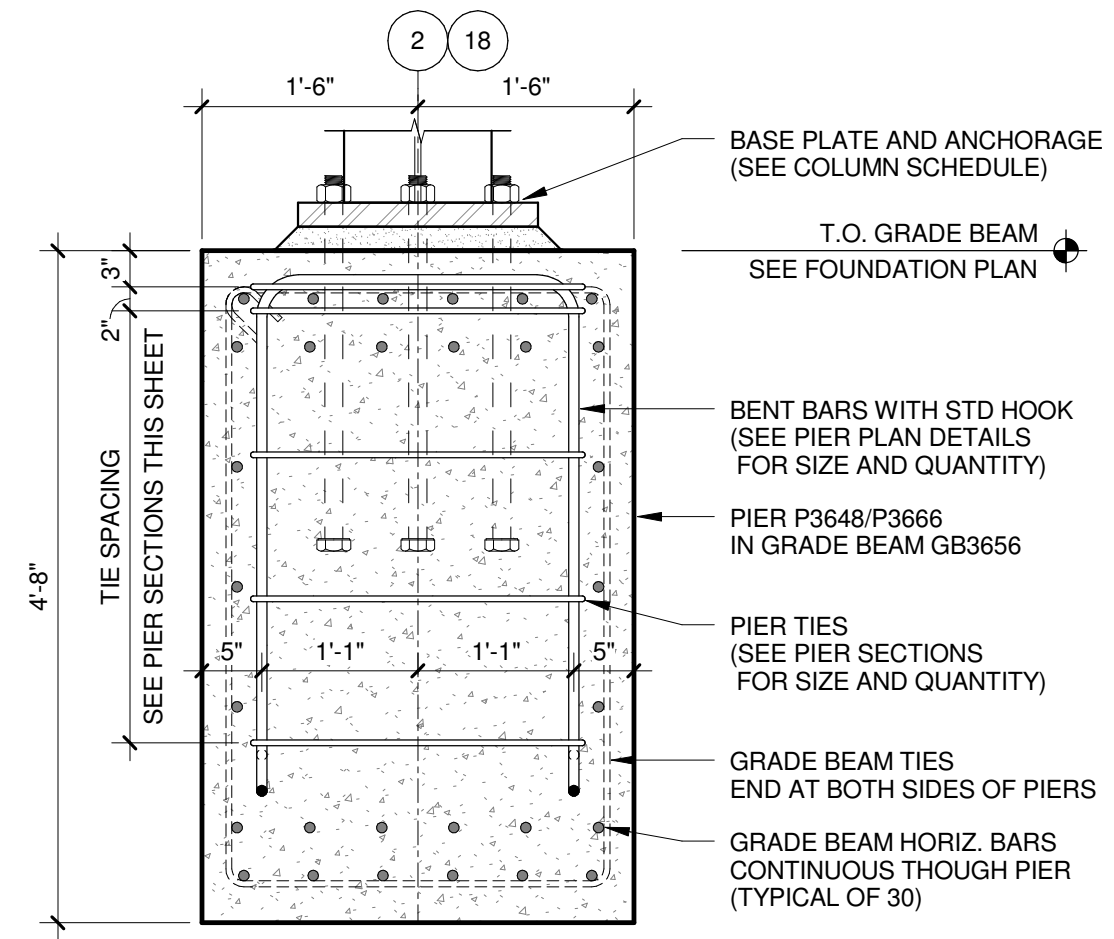
1 PIER P3648 PLAN
3/4" = 1'-0"



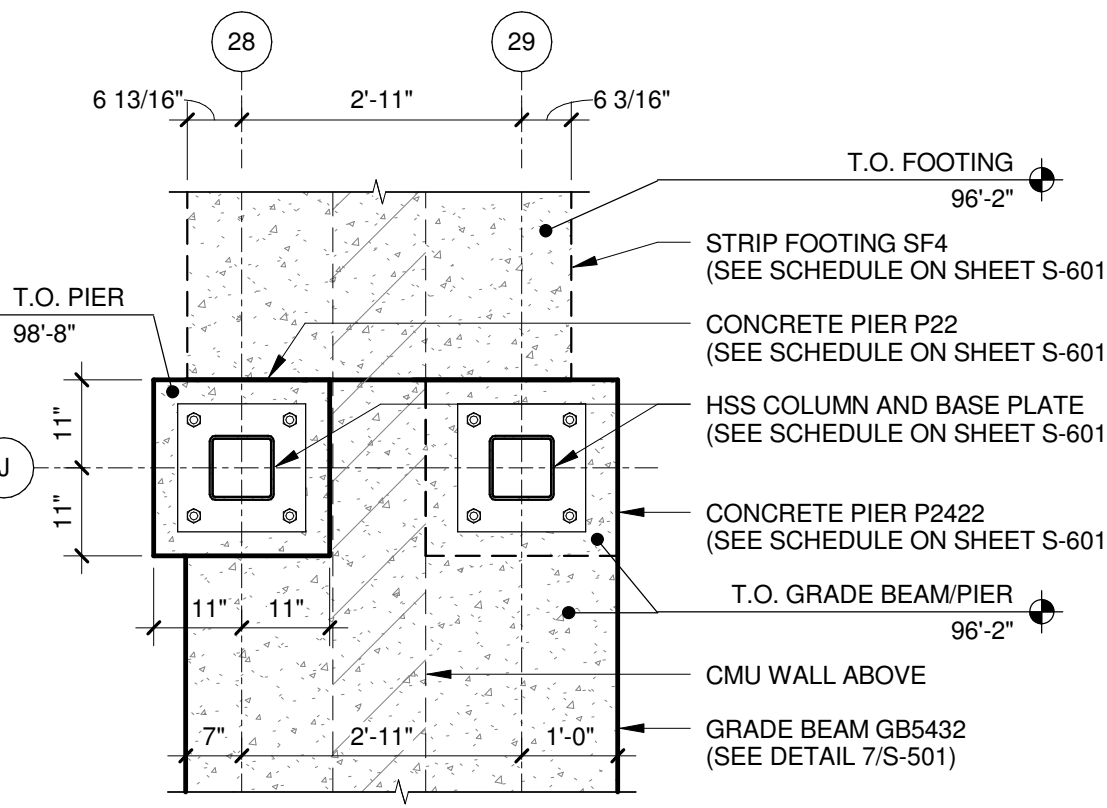
6 PIER P3666 SECTION
3/4" = 1'-0"



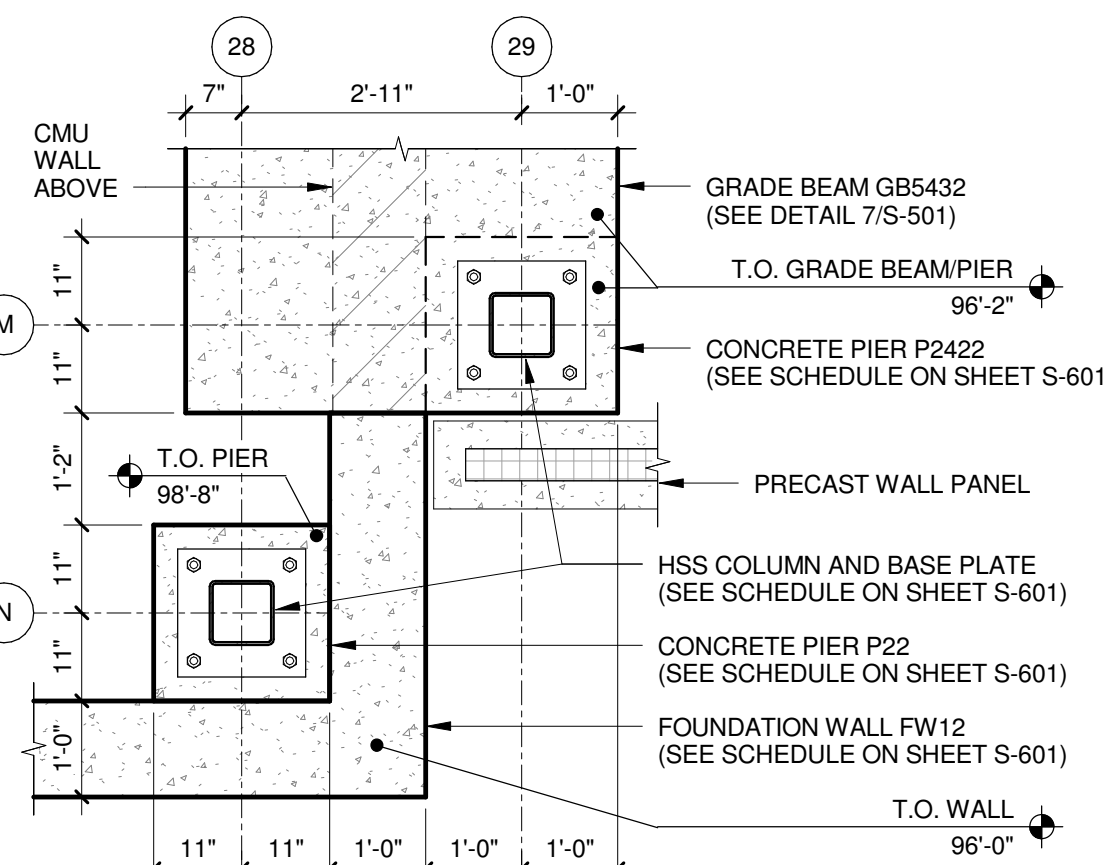
2 PIER P3666 PLAN
3/4" = 1'-0"



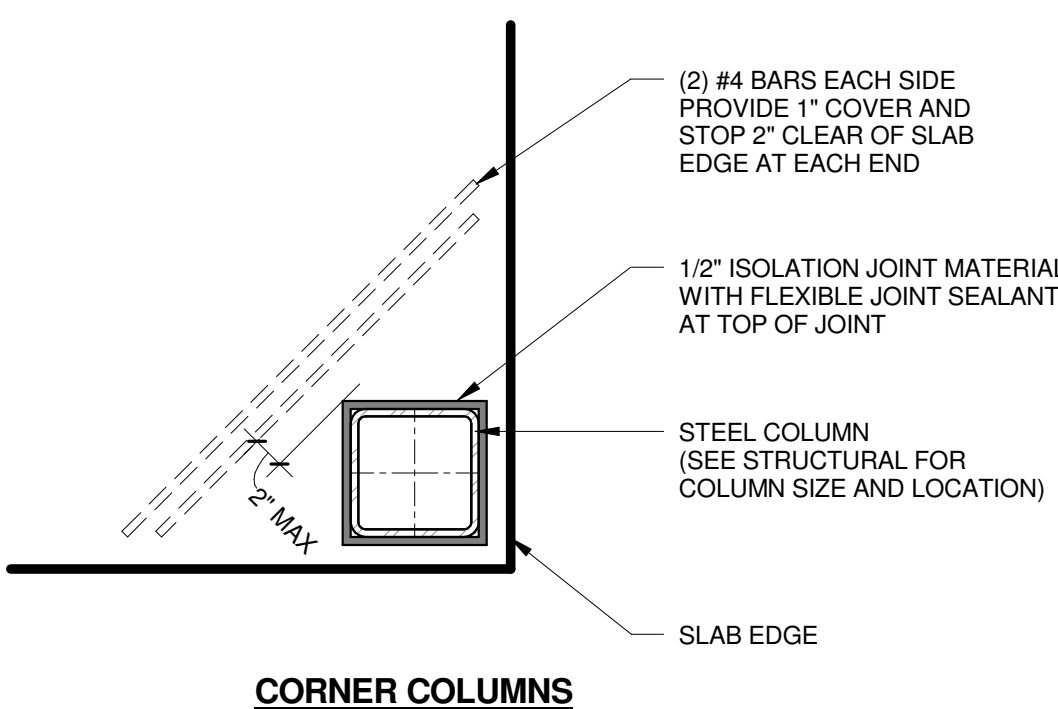
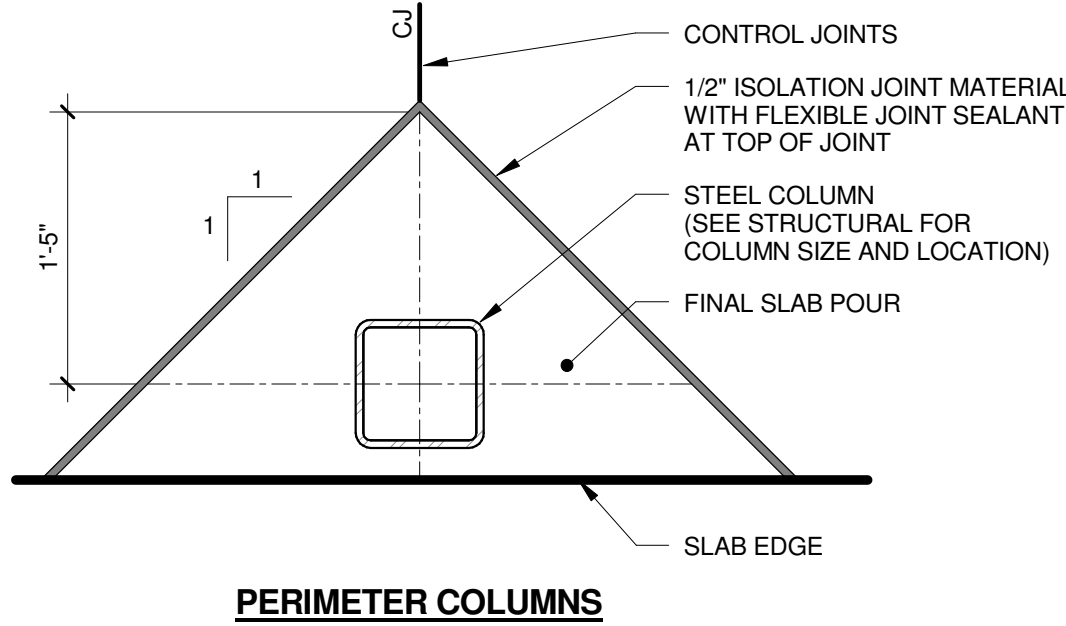
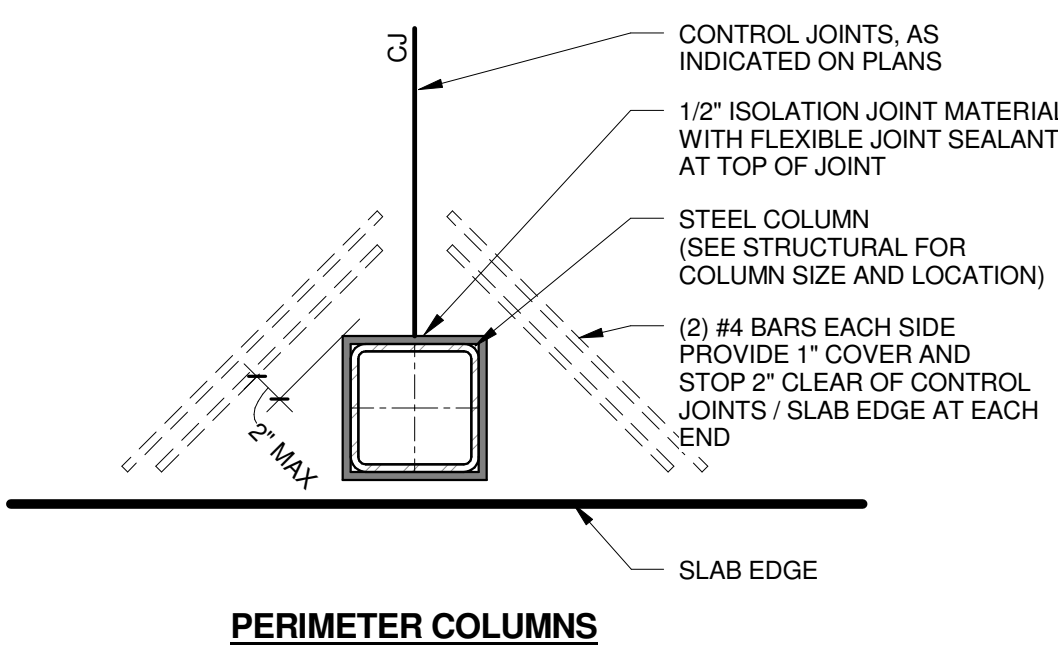
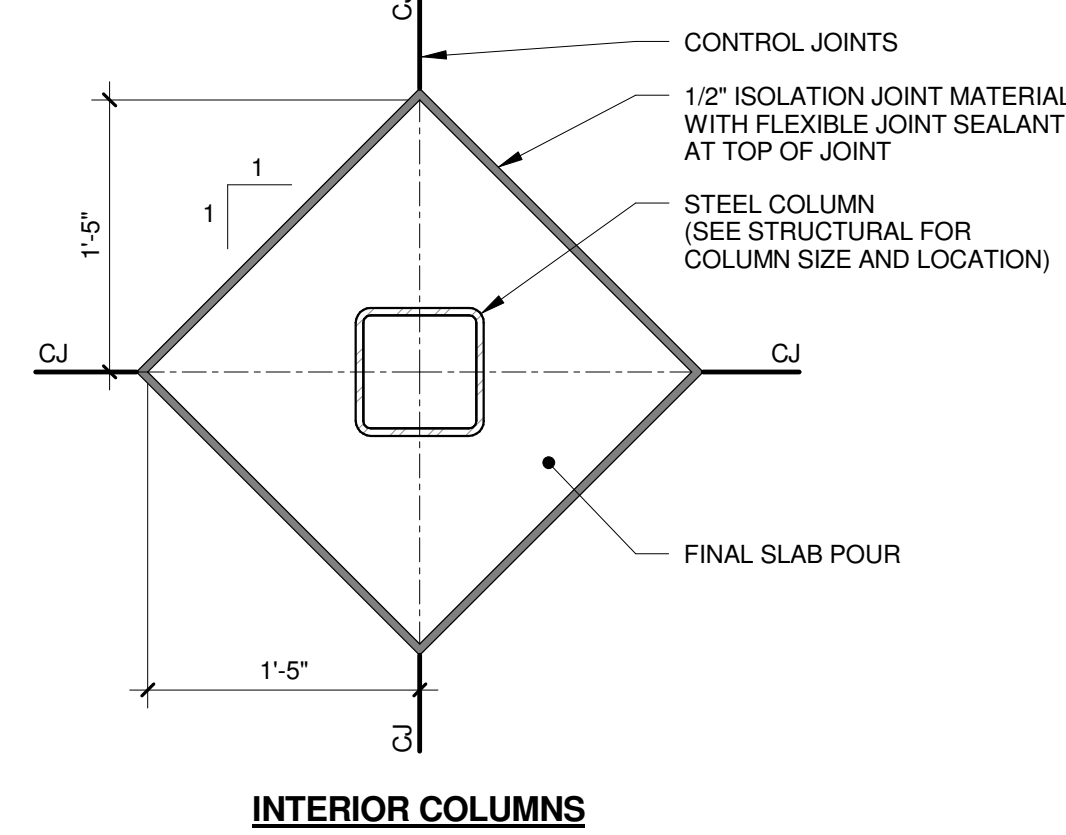
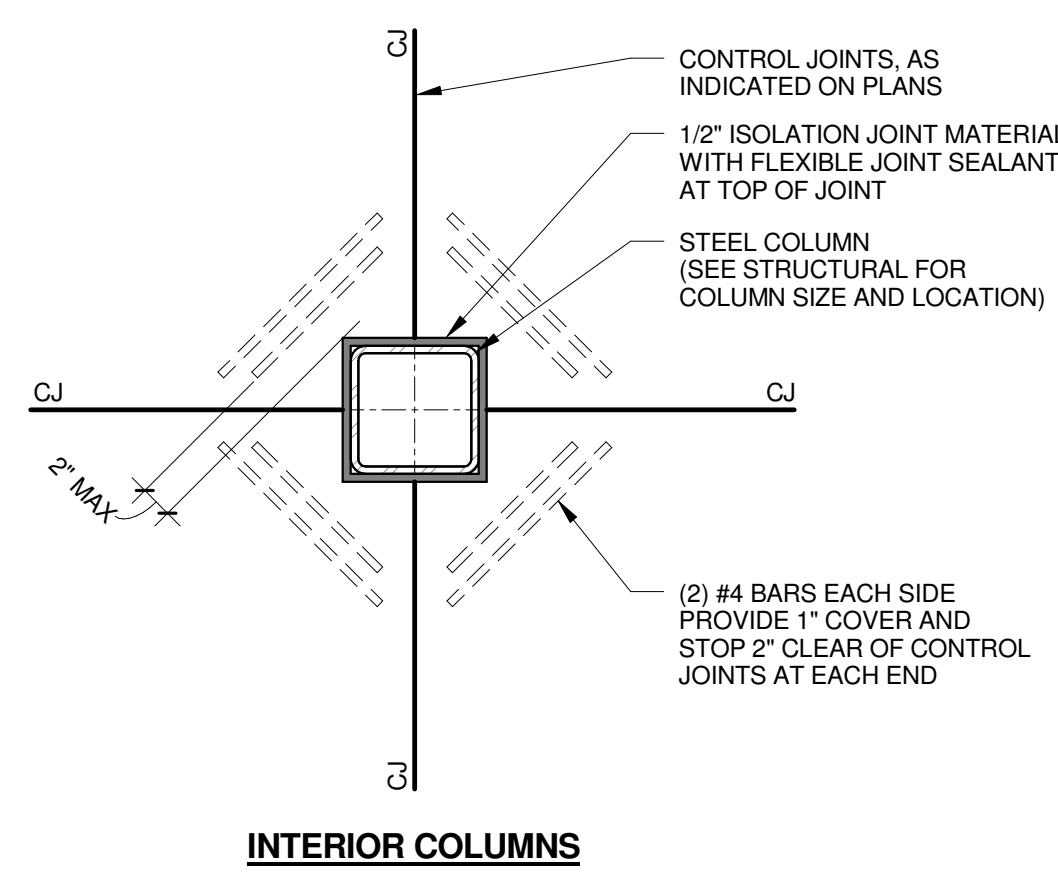
7 PIER P3648/P3666 SECTION
3/4" = 1'-0"



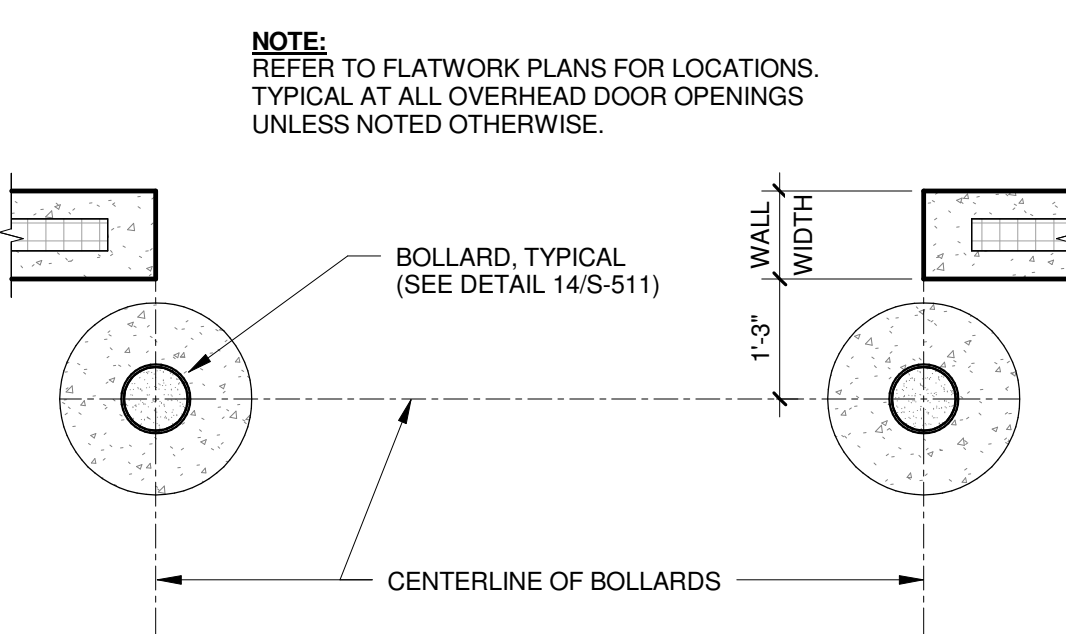
3 GB5432 PIER PLAN
1/2" = 1'-0"



4 GB5432 PIER PLAN
1/2" = 1'-0"

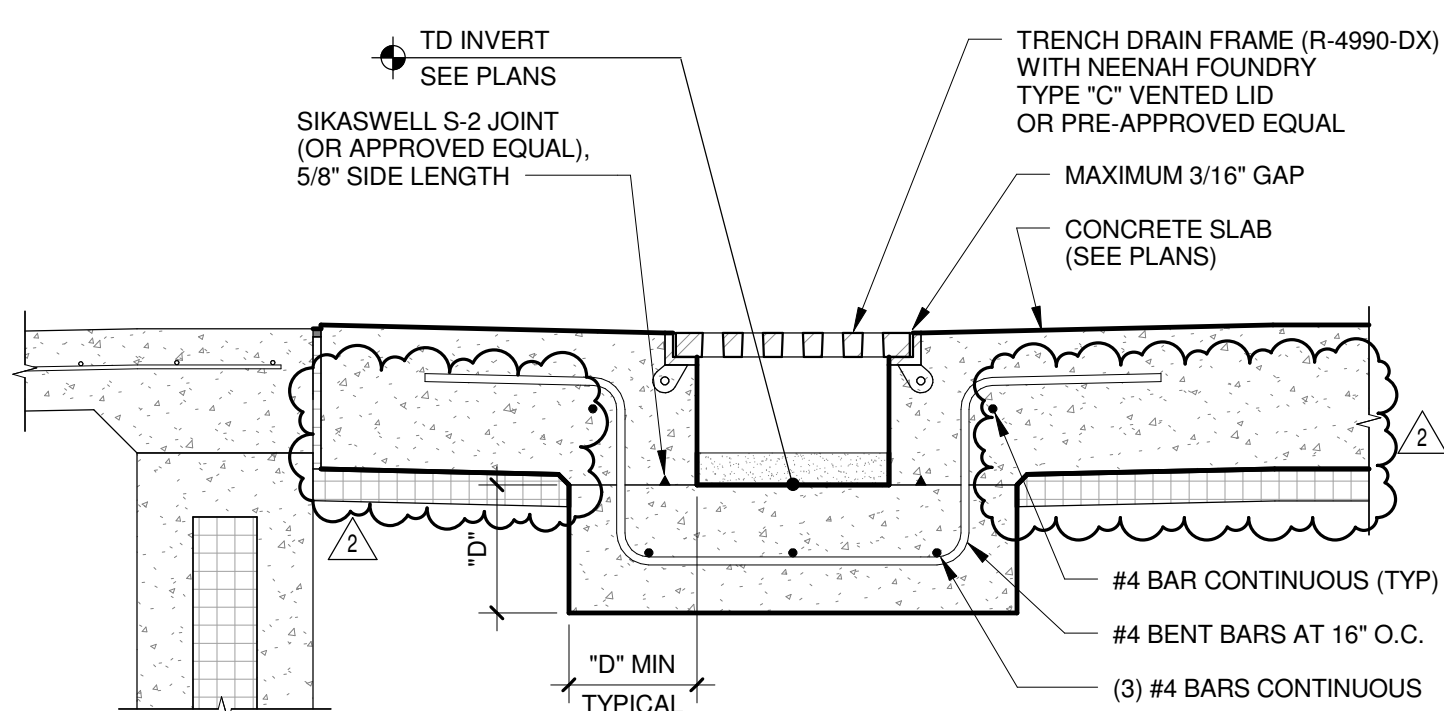


15 SLAB JOINTS AT ISOLATED COLUMN
1" = 1'-0"

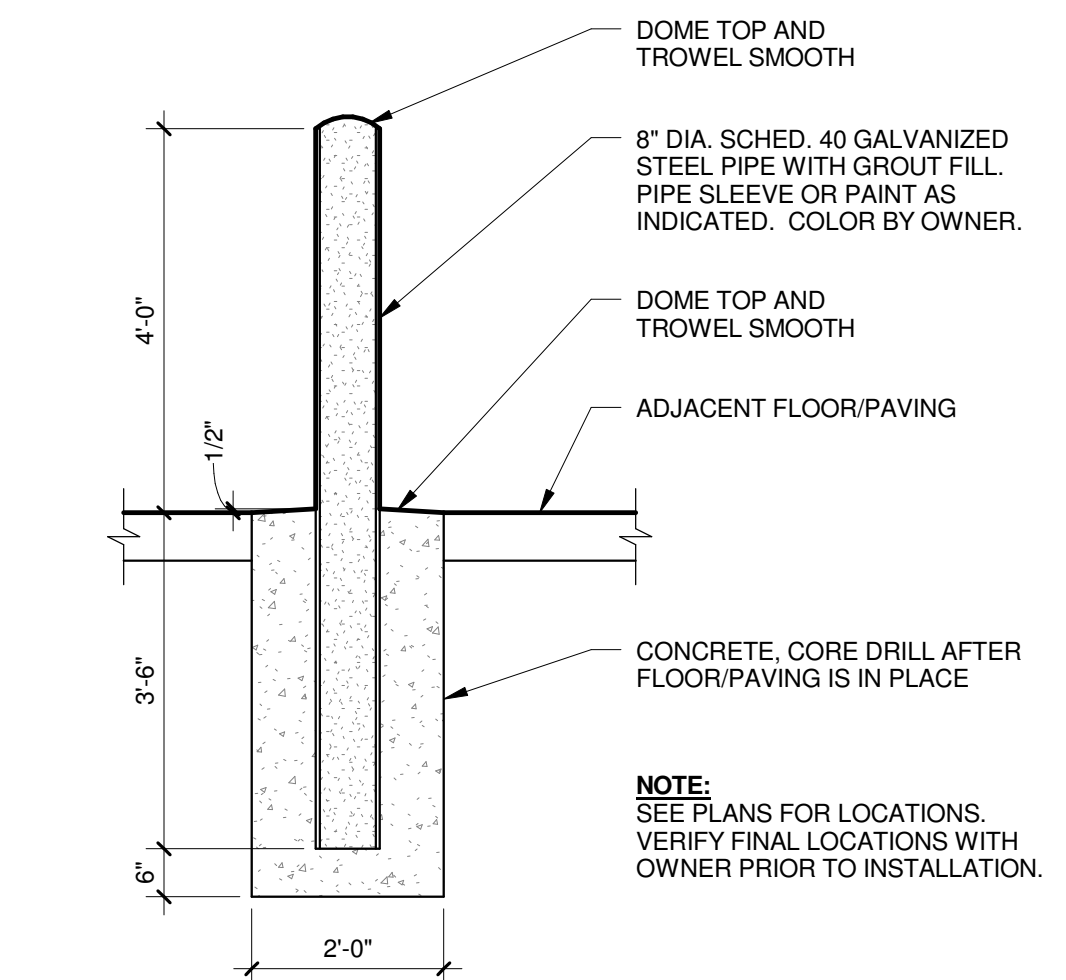


13 BOLLARD LOCATION PLAN
NO SCALE

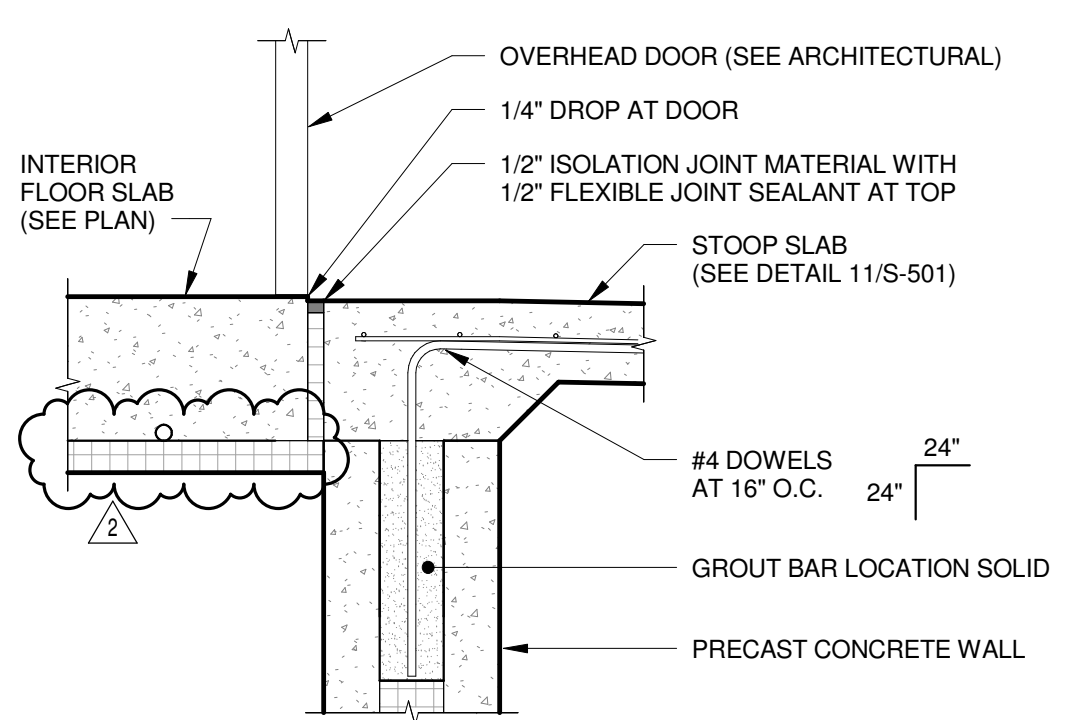
16 CONCRETE TRENCH DRAIN
1/2" = 1'-0"



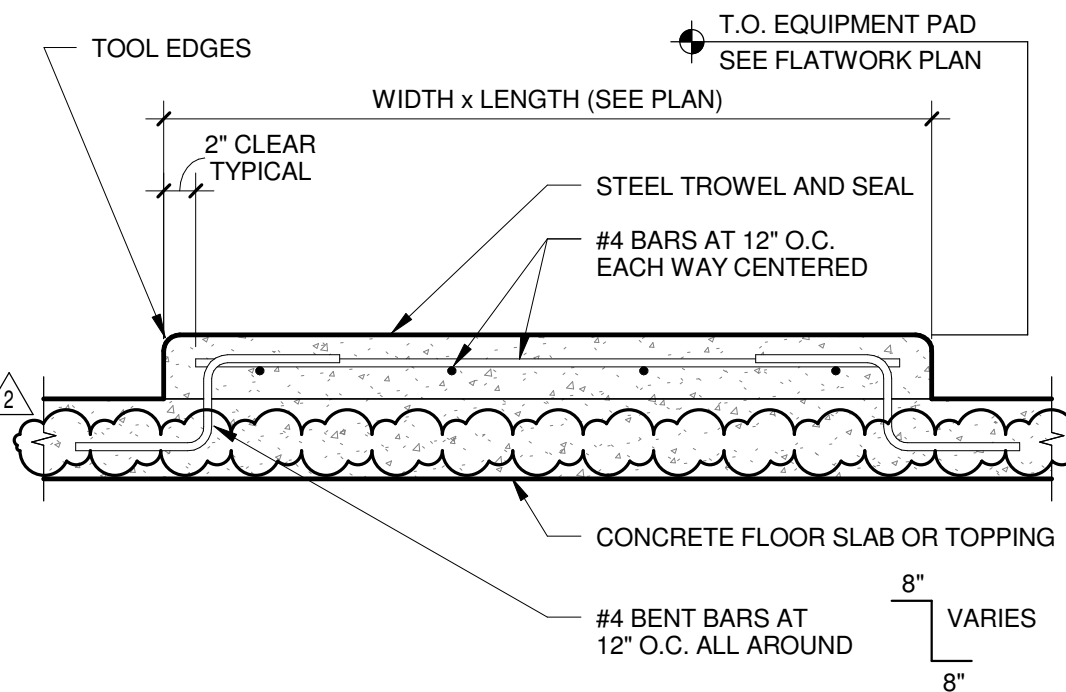
17 CONCRETE TRENCH DRAIN SECTION
1" = 1'-0"



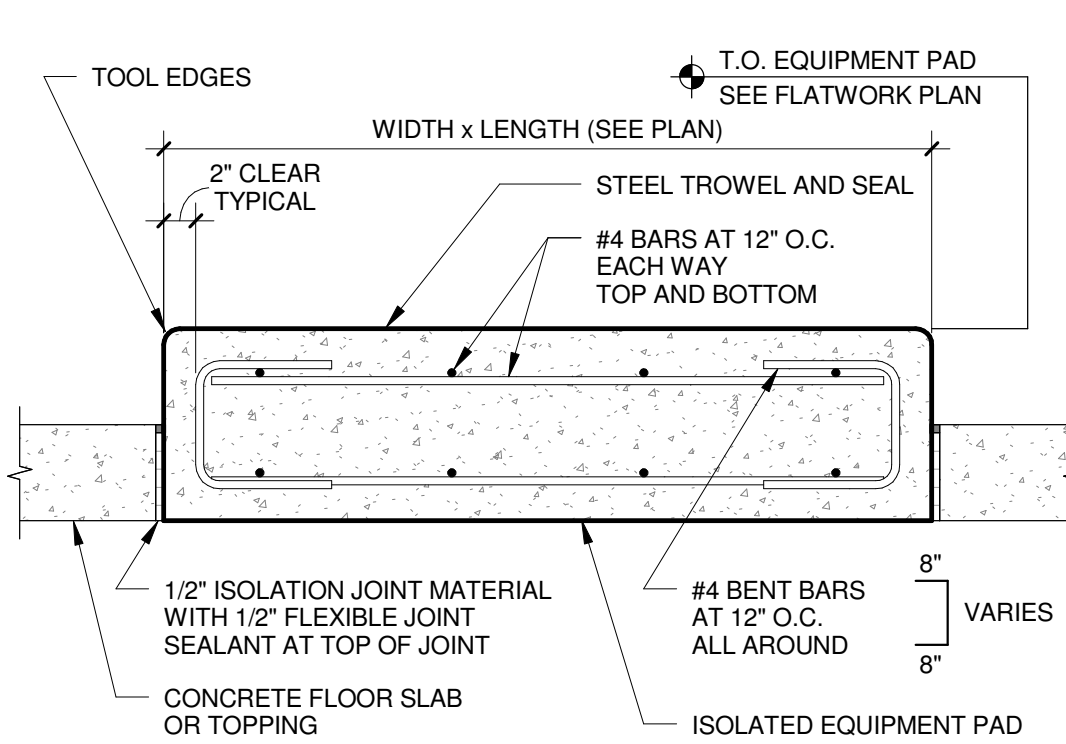
14 8" DIAMETER GALVANIZED BOLLARD POST
1/2" = 1'-0"



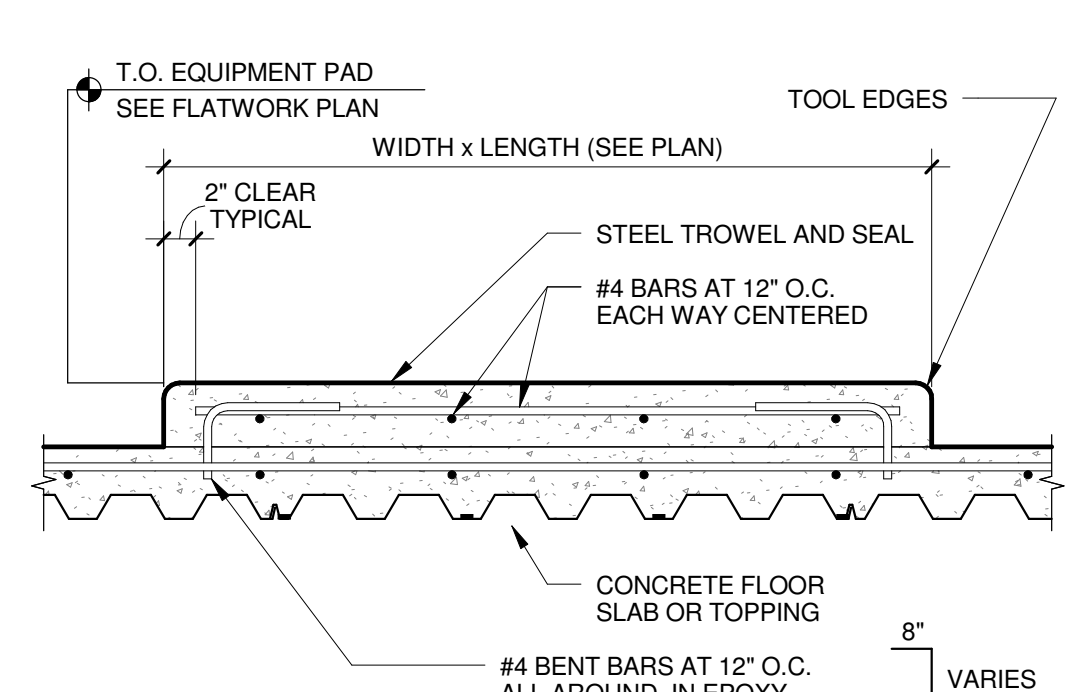
7 STOOP SLAB AT OVERHEAD DOOR
1" = 1'-0"



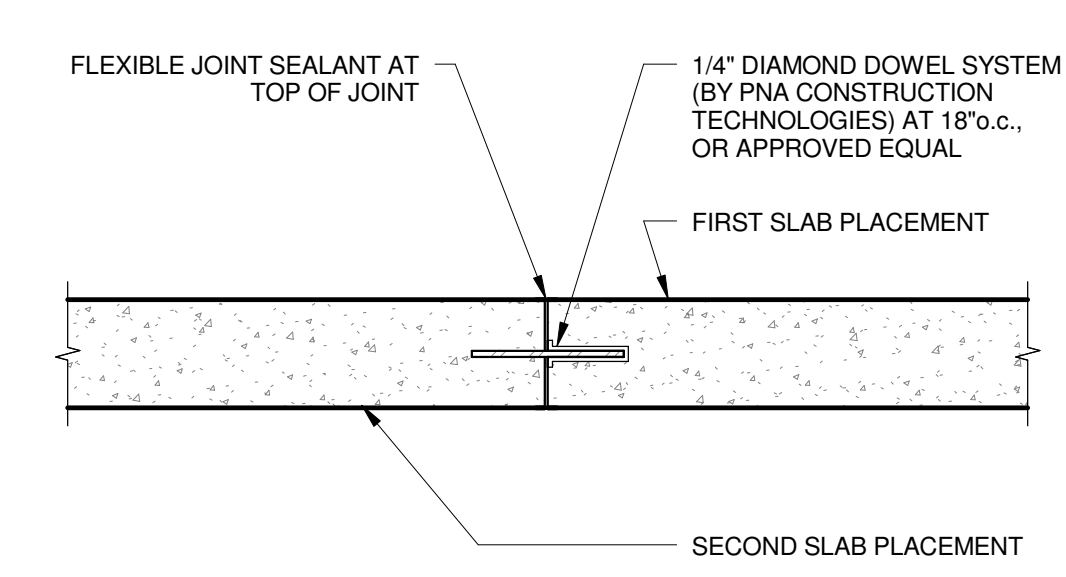
8 GROUND LEVEL EQUIPMENT PADS
NO SCALE



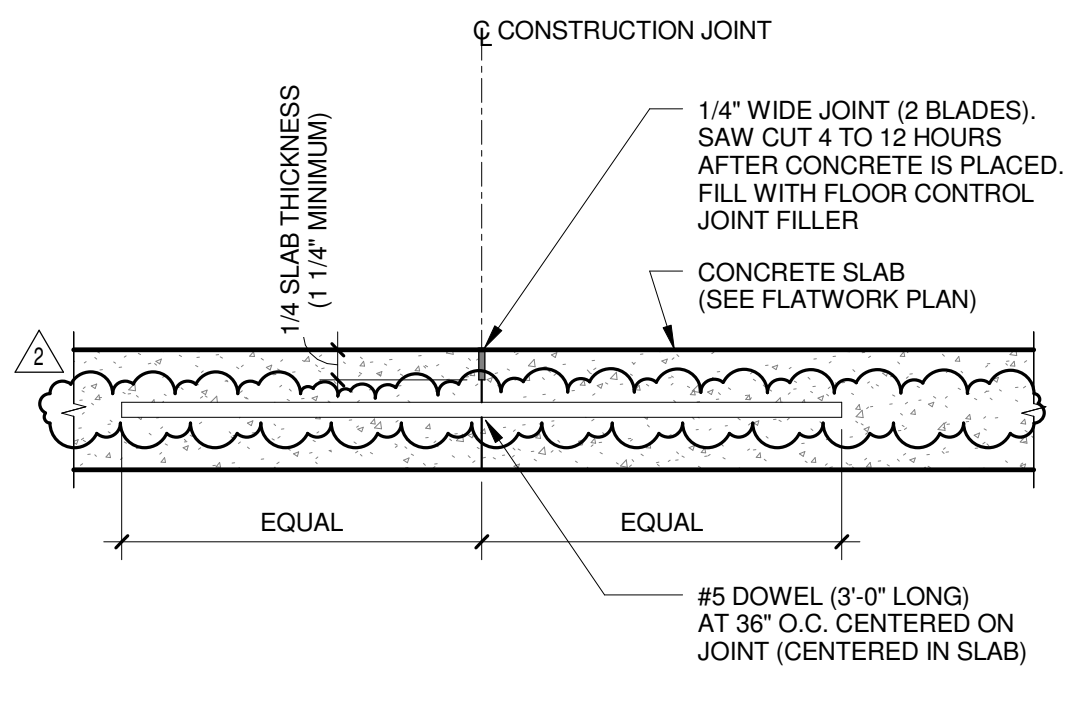
9 ISOLATED EQUIPMENT PADS
NO SCALE



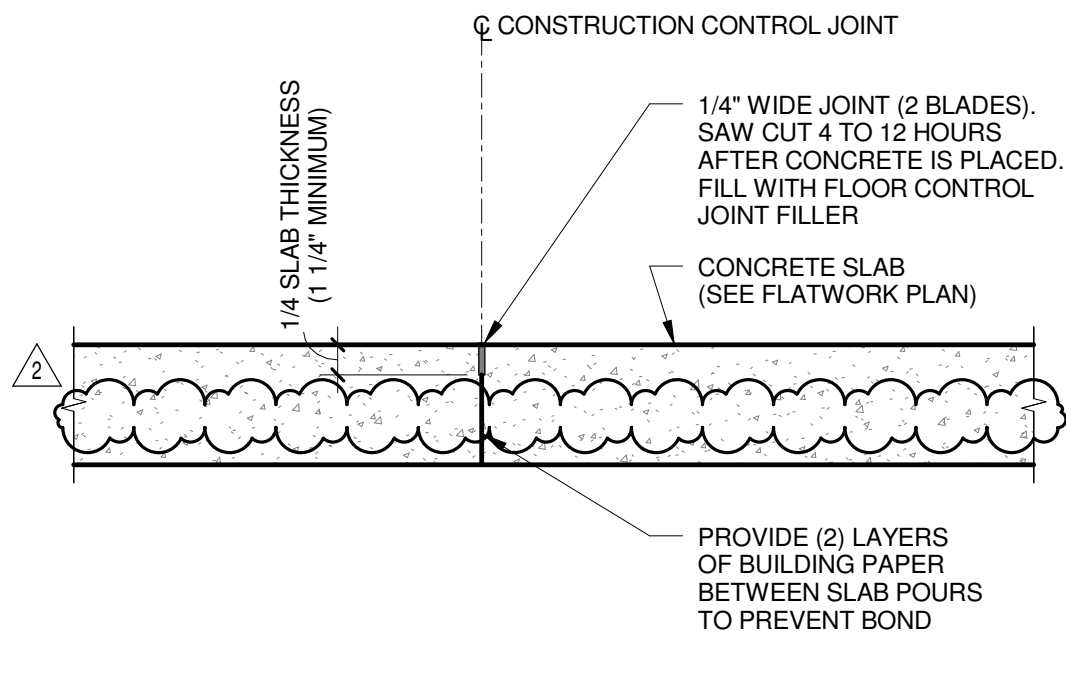
10 MEZZANINE EQUIPMENT PADS
1" = 1'-0"



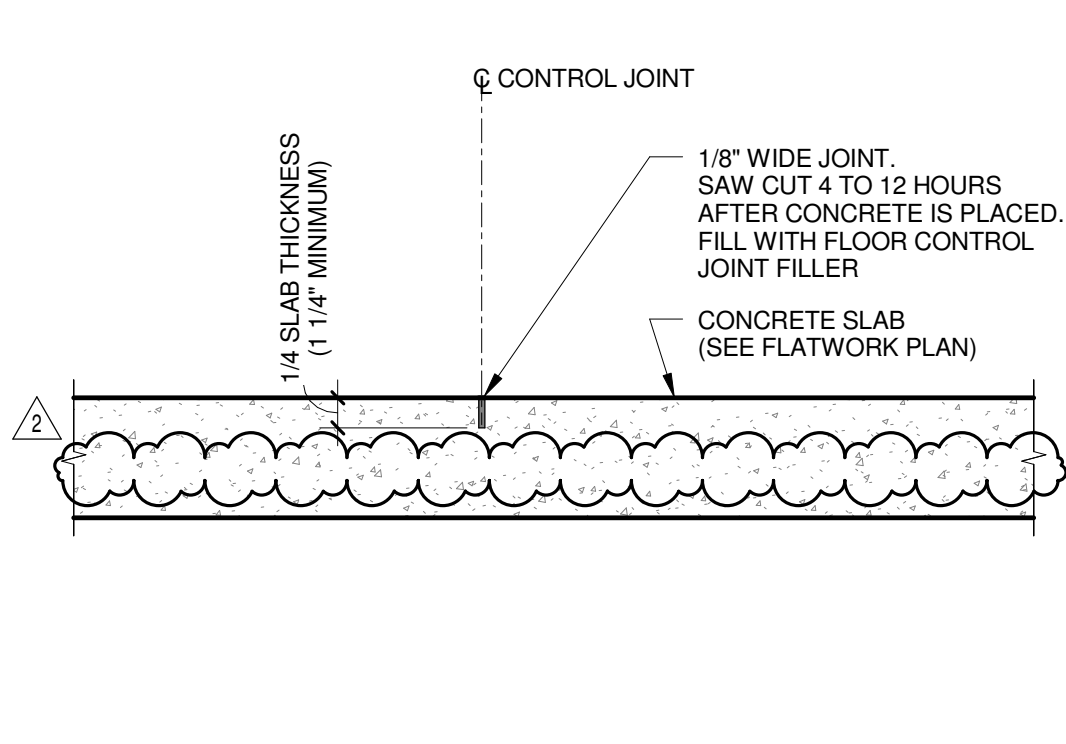
11 CONCRETE SLAB DOWELED JOINT
1 1/2" = 1'-0"



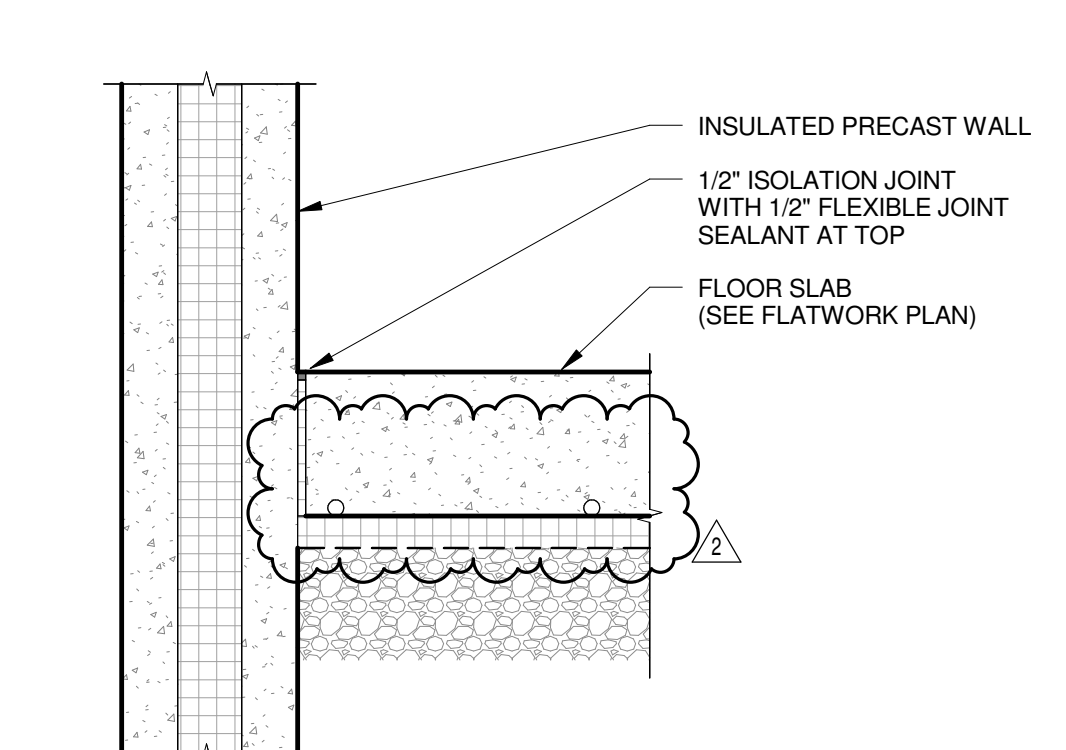
2 CONCRETE SLAB CONSTRUCTION JOINT (TYPICAL)
NO SCALE



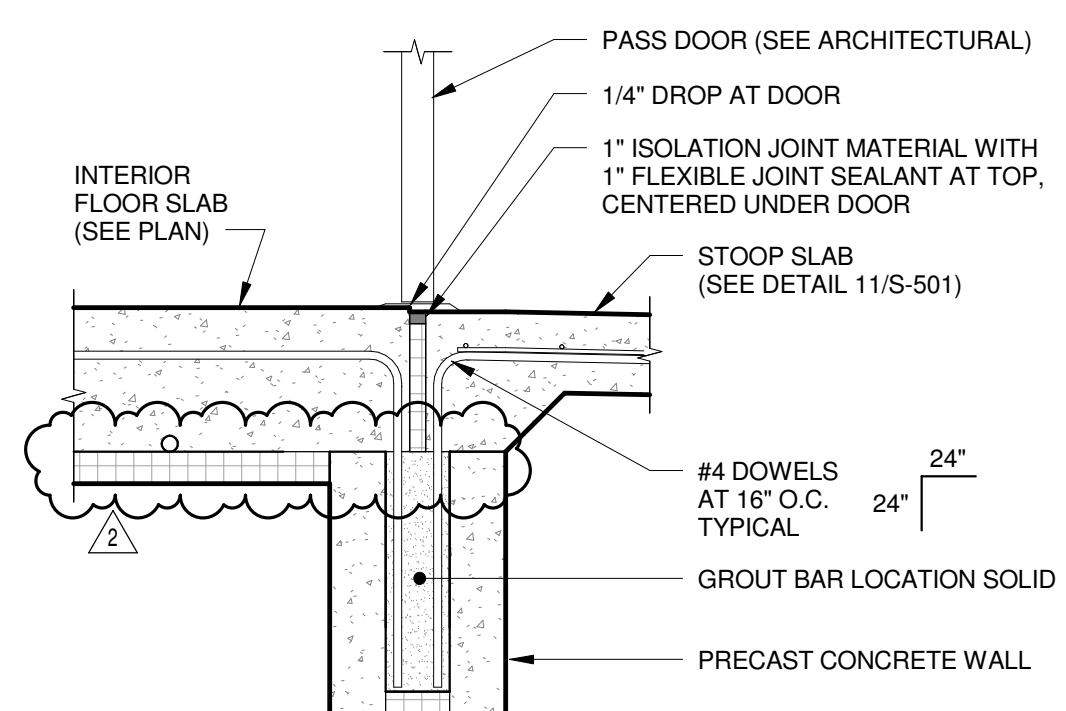
3 CONCRETE SLAB CONSTRUCTION CONTROL JOINT "CCJ" (TYPICAL)
NO SCALE



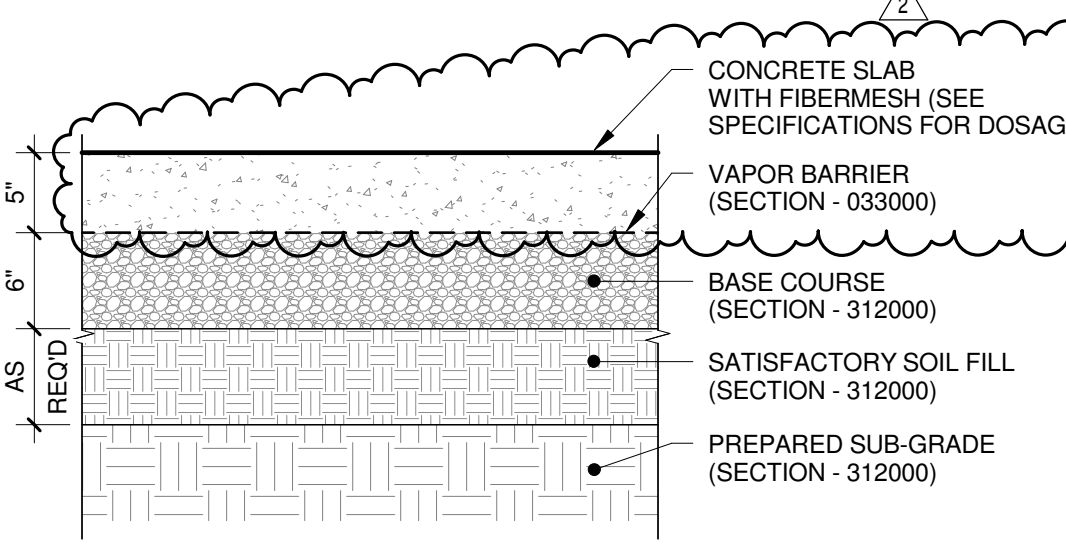
4 CONCRETE SLAB CONTROL JOINT "CJ" (TYPICAL)
NO SCALE



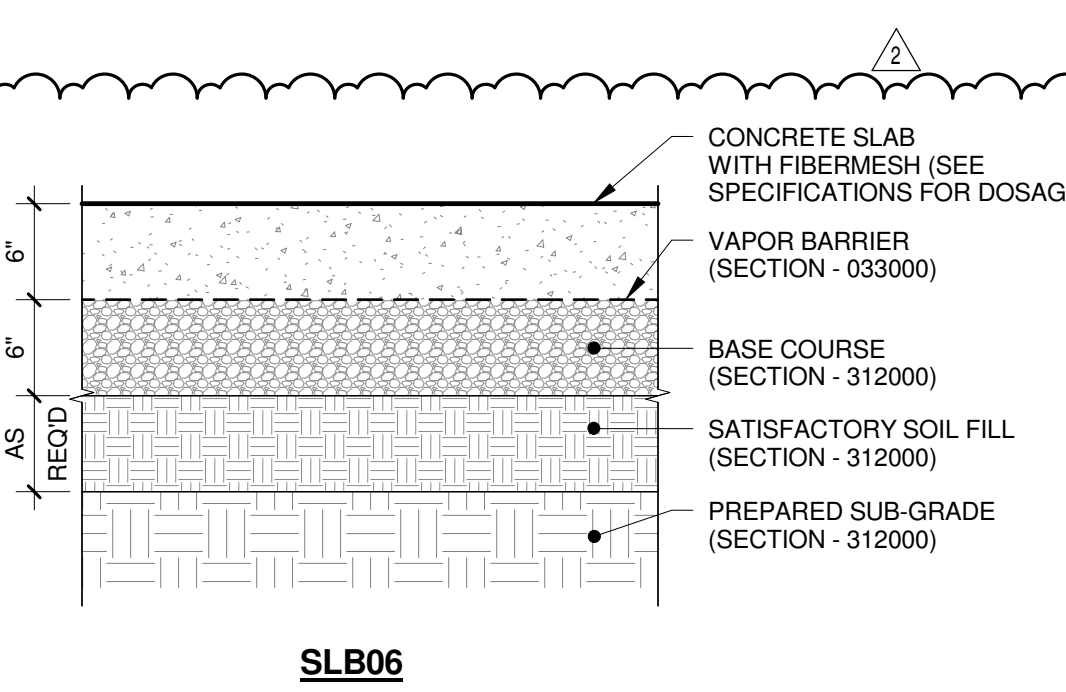
5 SLAB AT PRECAST WALL
NO SCALE



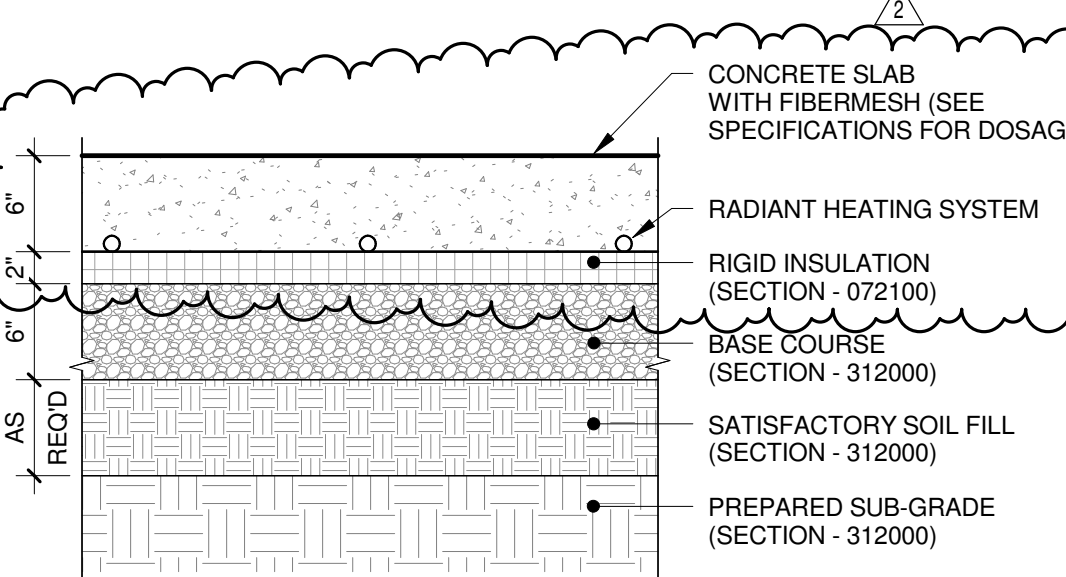
6 STOOP SLAB AT PASS DOOR
1" = 1'-0"



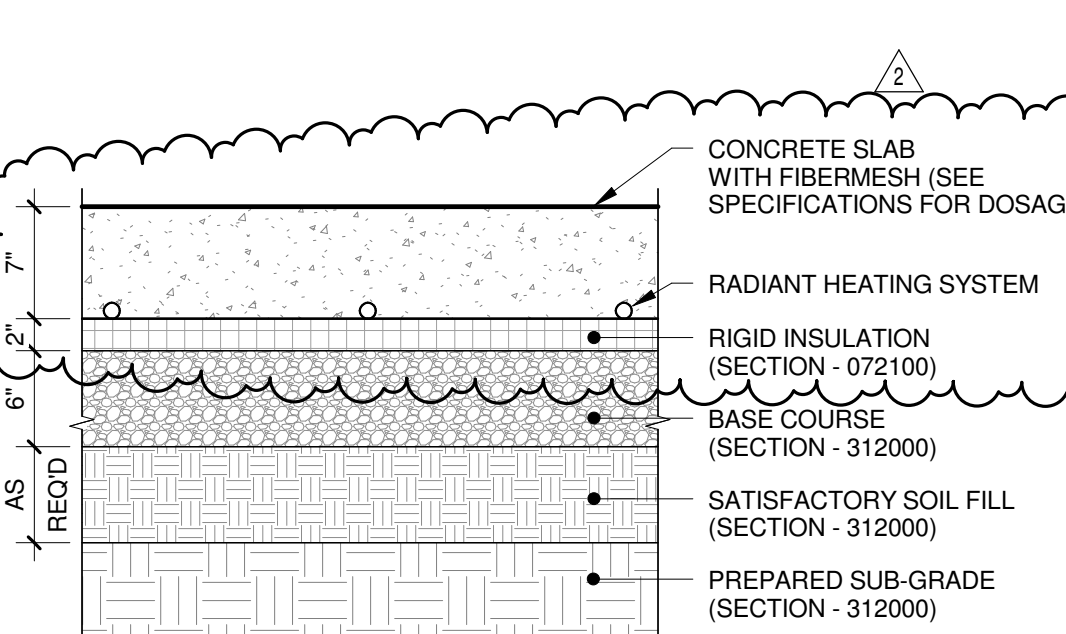
SLB05



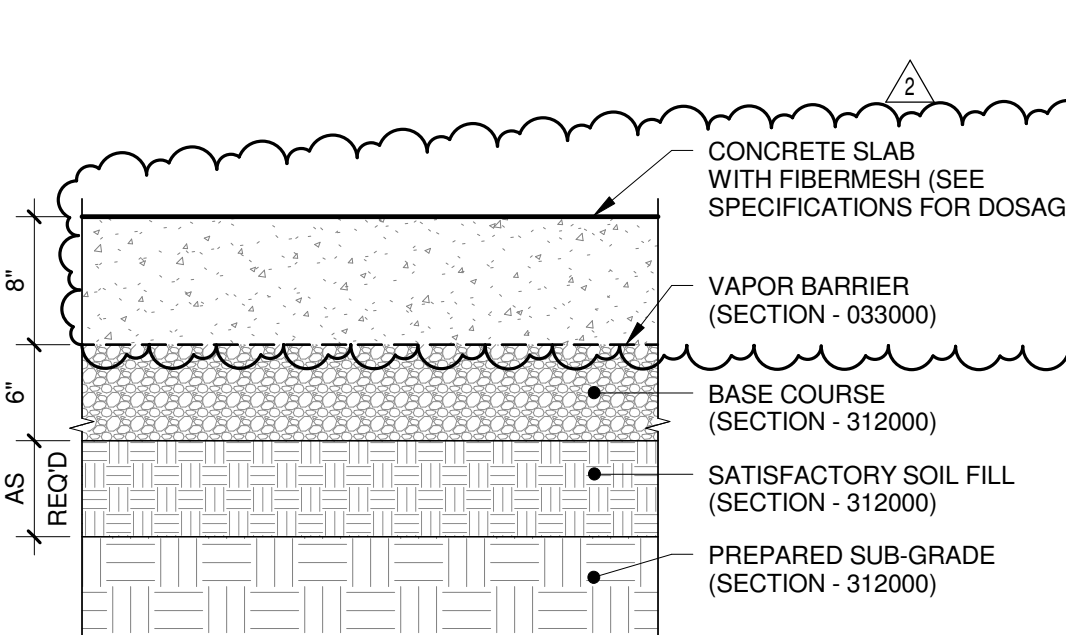
SLB06



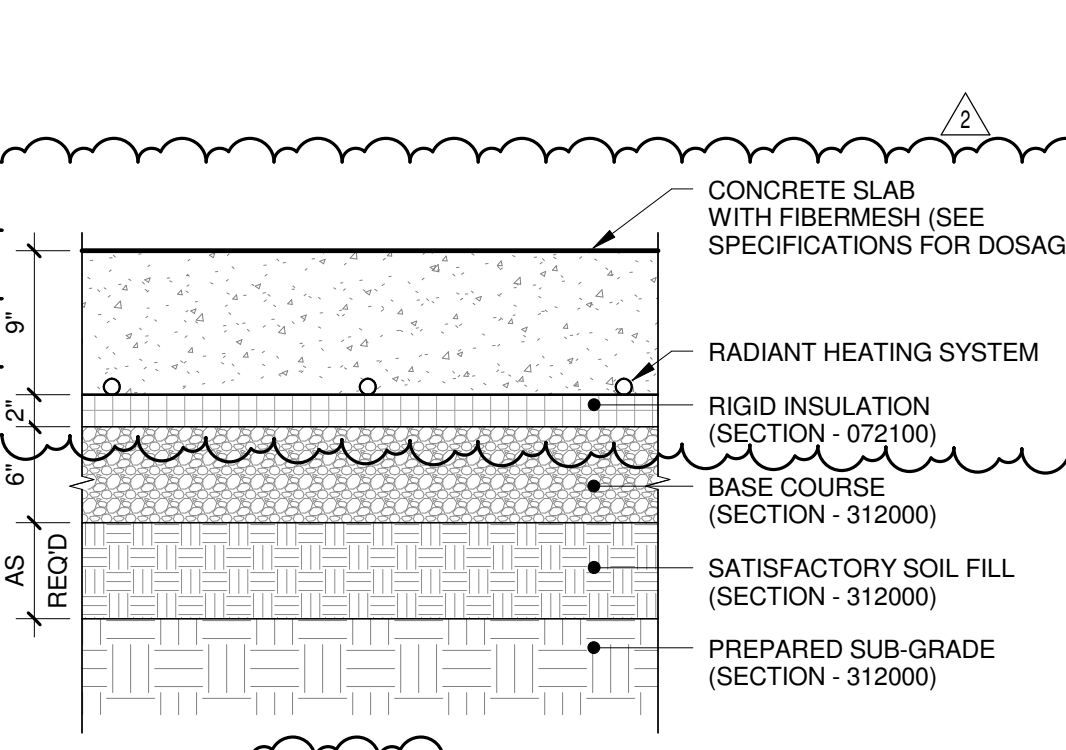
SLB06H



SLB07H



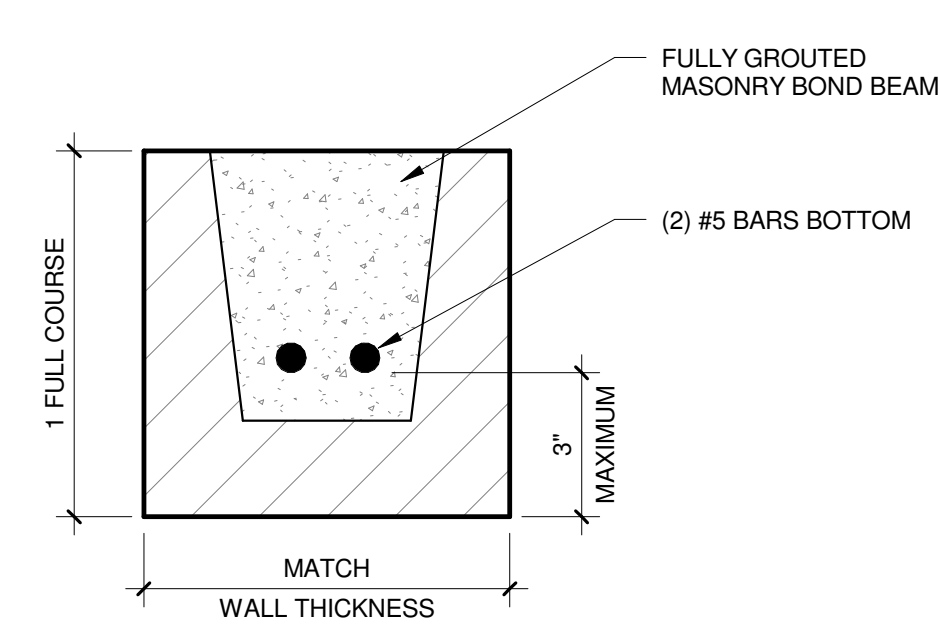
SLB08



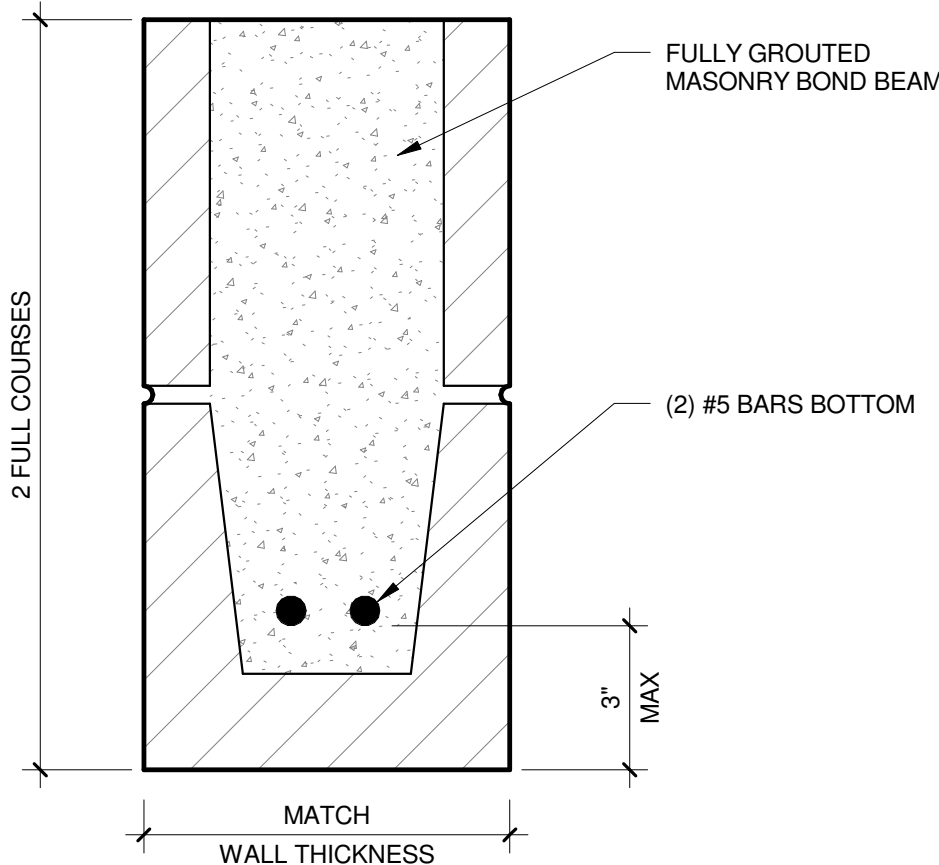
SLB09H

1 STRUCTURAL SLAB TYPES
1" = 1'-0"

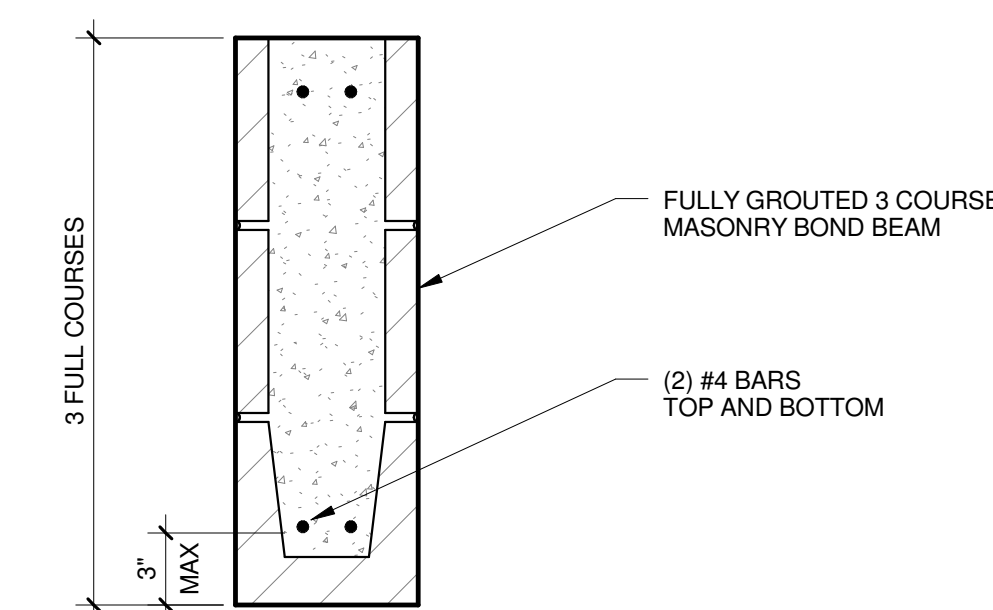
NOT FOR CONSTRUCTION		
2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019
No.	REVISION/SUBMISSION	DATE
PROJECT No: 1303500-160264.01		



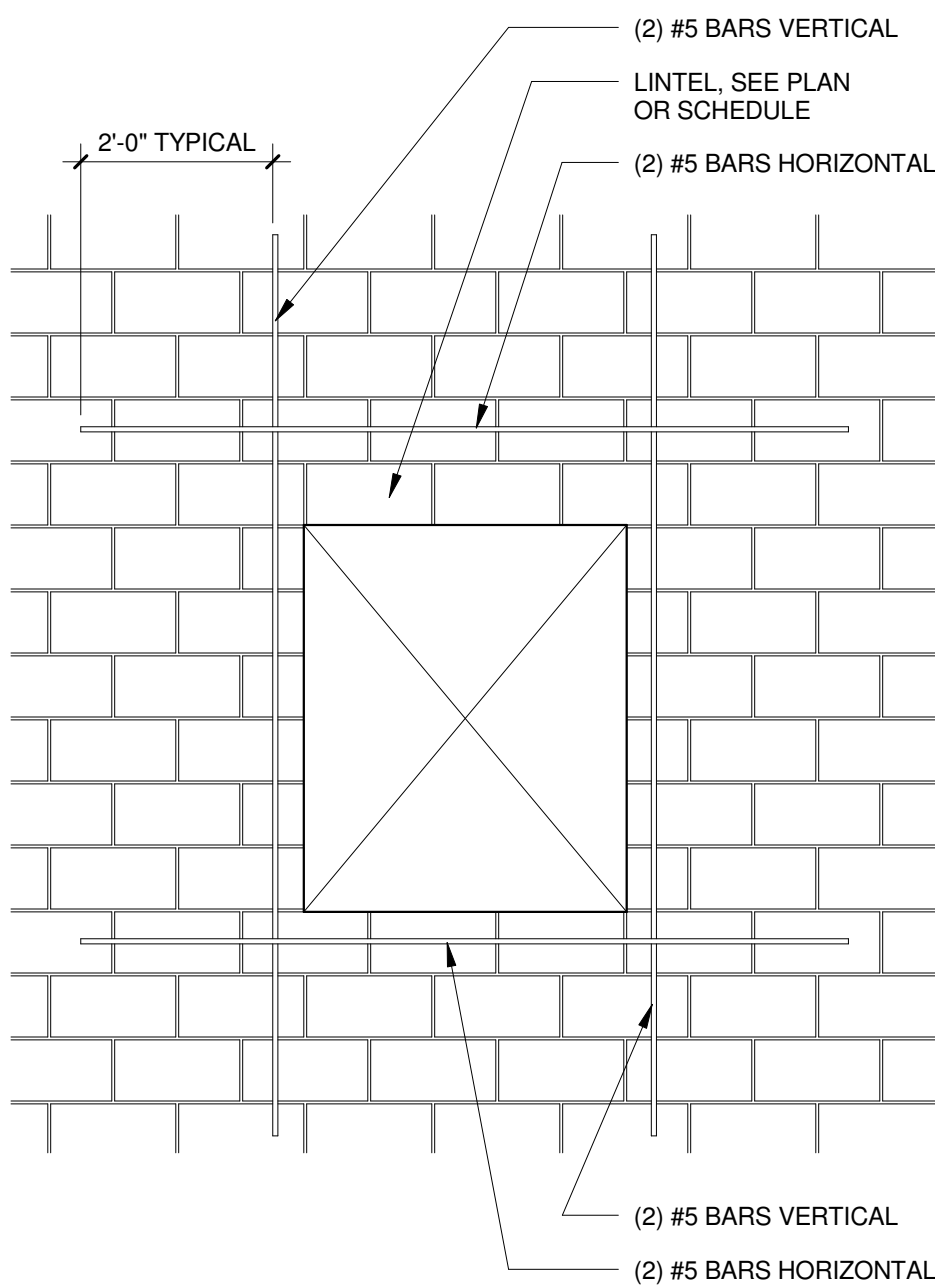
12 BOND BEAM LINTEL L19
3\"/>



13 BOND BEAM LINTEL L20
3\"/>

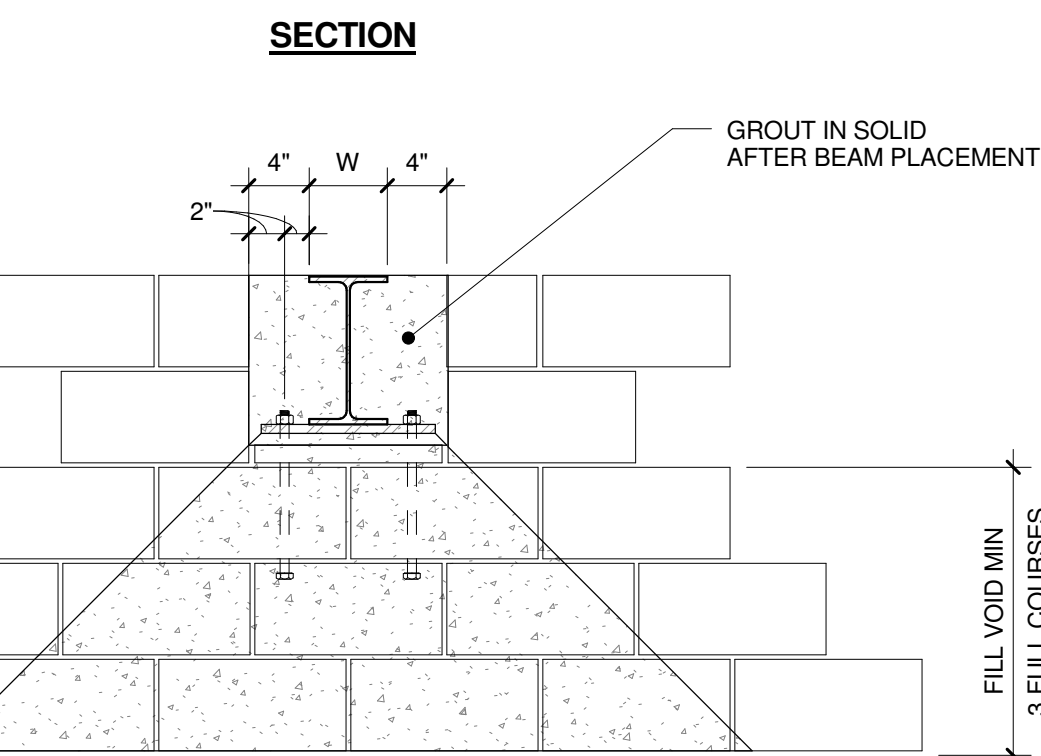
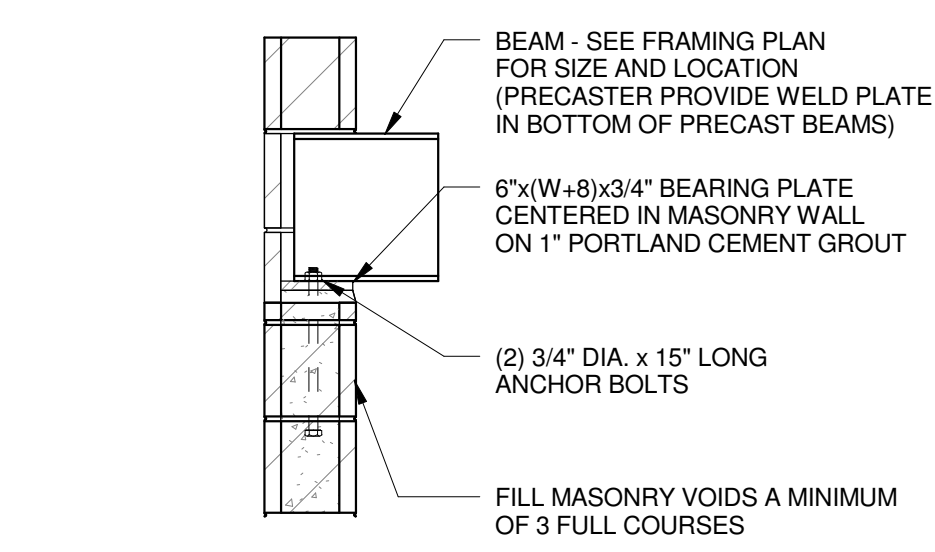


14 BOND BEAM LINTEL L21
1 1/2\"/>

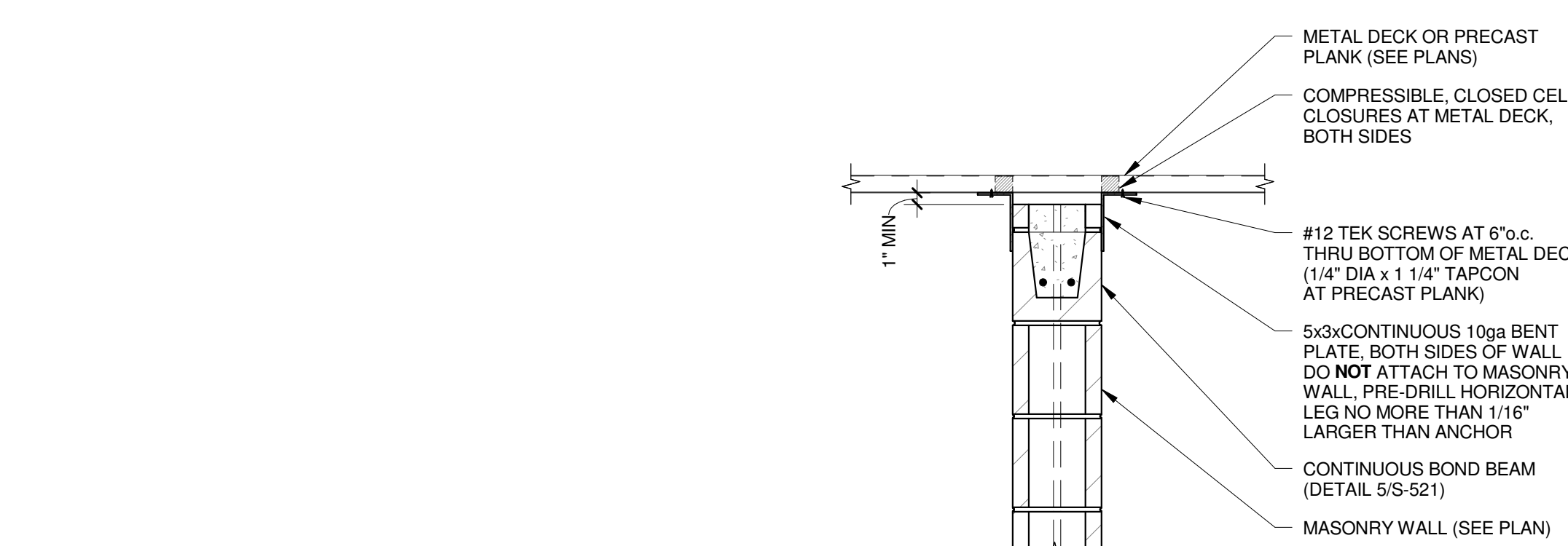


NOTE: IN ADDITION TO OPENINGS SHOWN ON THE DRAWINGS, MASONRY AND STEEL WORK SHALL INCLUDE PROVIDING MASONRY WALL OPENINGS AND ASSOCIATED LINTELS REQUIRED FOR MECHANICAL/ELECTRICAL EQUIPMENT (OTHER THAN INDIVIDUAL PIPE PENETRATIONS FIELD DRILLED BY THE APPROPRIATE TRADES DURING THEIR WORK, INCLUDING COORDINATING WITH OTHER TRADES, GENERAL CONTRACTOR, ARCHITECT/ENGINEER, AND FINAL MECHANICAL AND ELECTRICAL DRAWINGS TO VERIFY EXACT SIZES AND LOCATIONS OF ALL SUCH OPENINGS AS WORK PROGRESSES. FINAL SIZES MAY NOT BE AVAILABLE UNTIL EQUIPMENT SHOP DRAWINGS ARE RECEIVED FROM SUCCESSFUL BIDDERS. ALL PARTIES SHOULD BE PREPARED TO PLAN AND COOPERATE ACCORDINGLY TO AVOID UNNECESSARY DELAYS IN THE WORK.

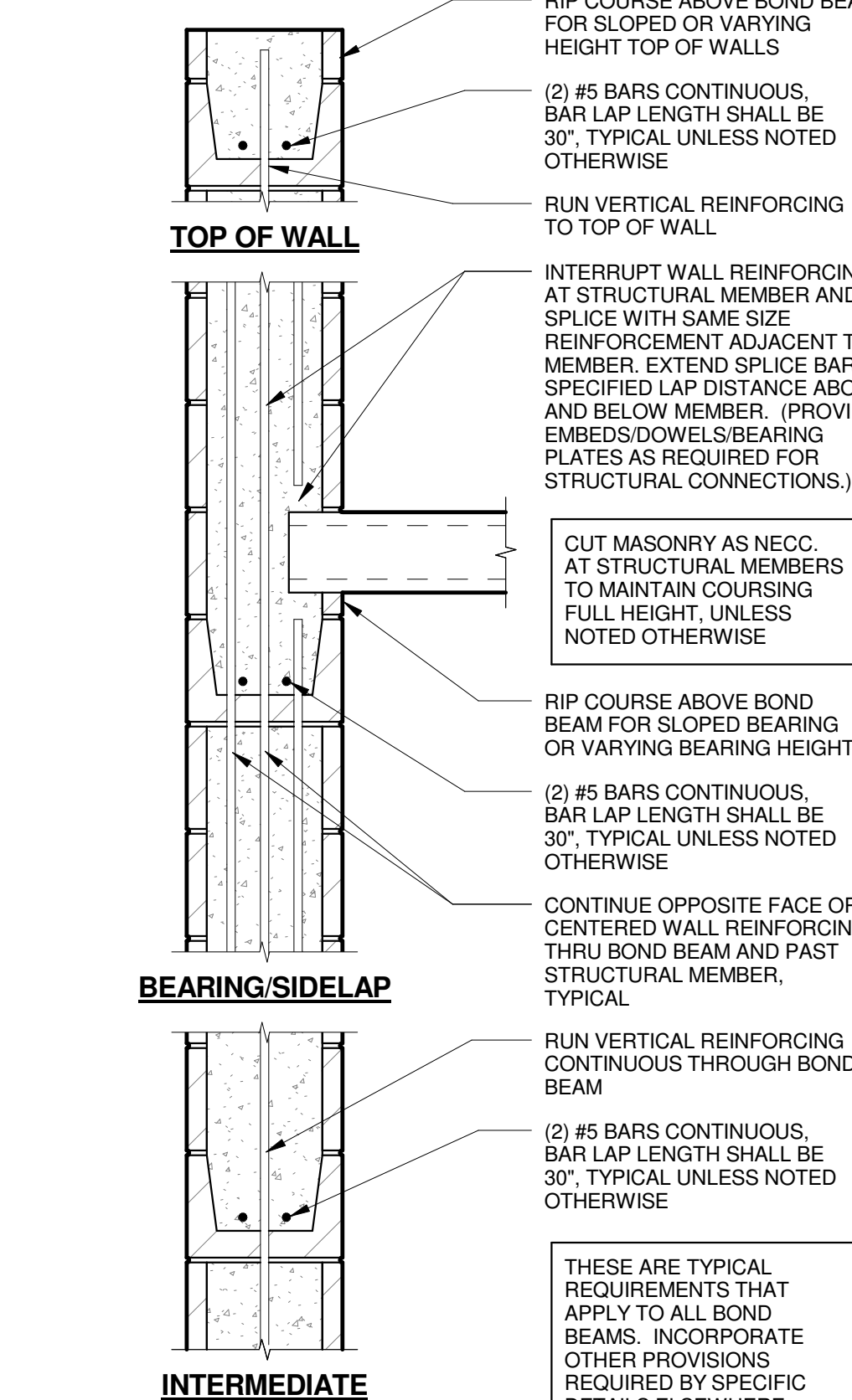
9 TYPICAL MASONRY OPENING REINFORCEMENT
1 1/2\"/>



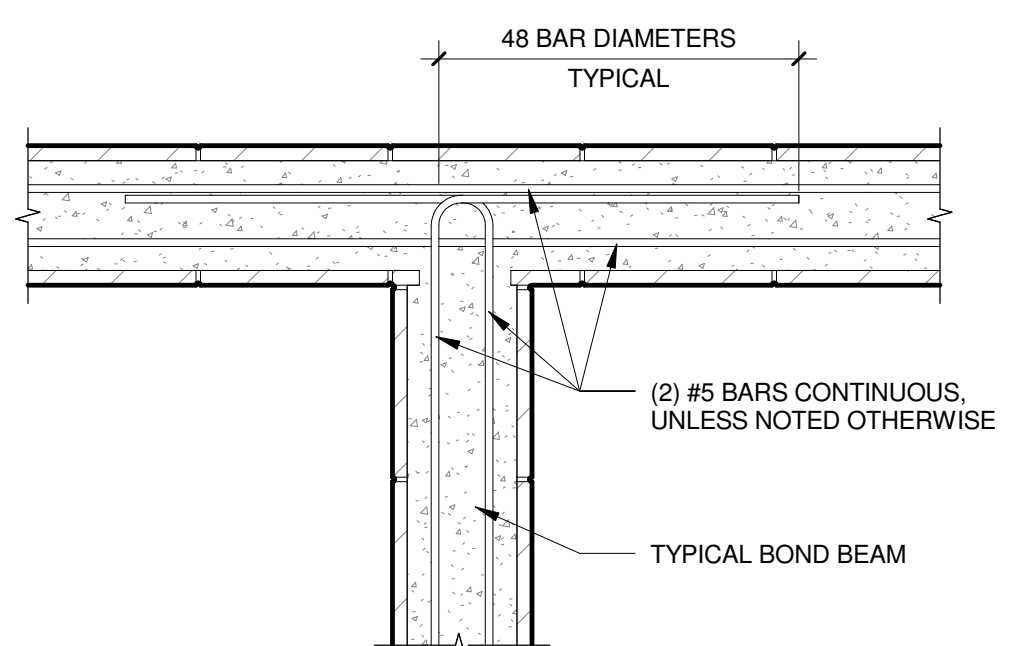
10 STEEL BEAM BEARING ON MASONRY
3/4\"/>



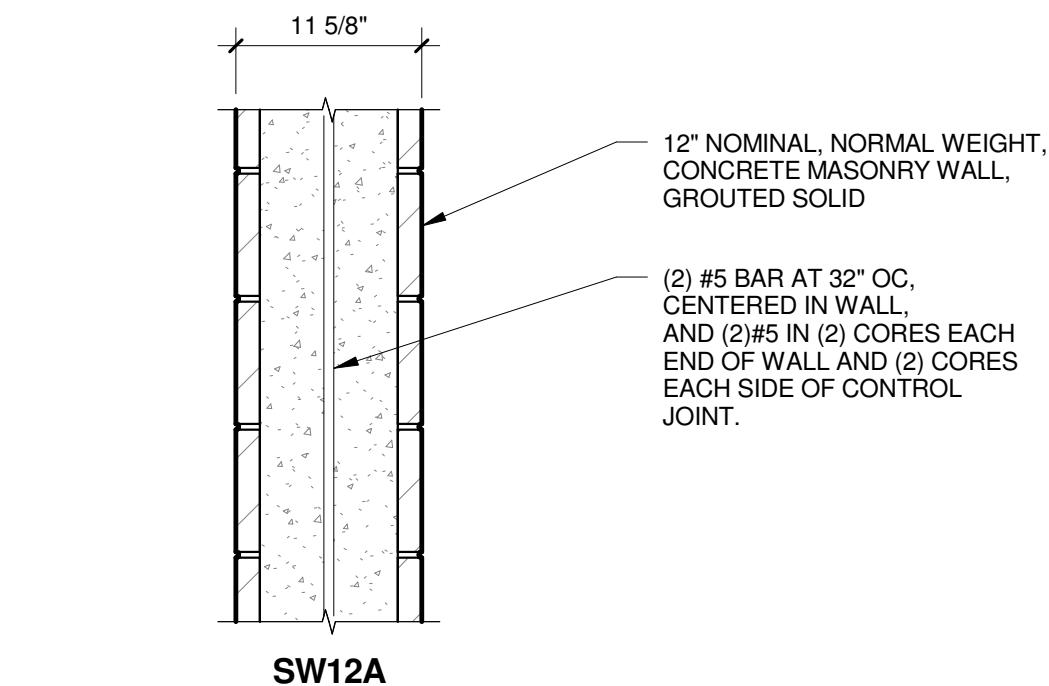
8 TYPICAL NON-LOAD BEARING MASONRY WALL TOP CONNECTION
1\"/>



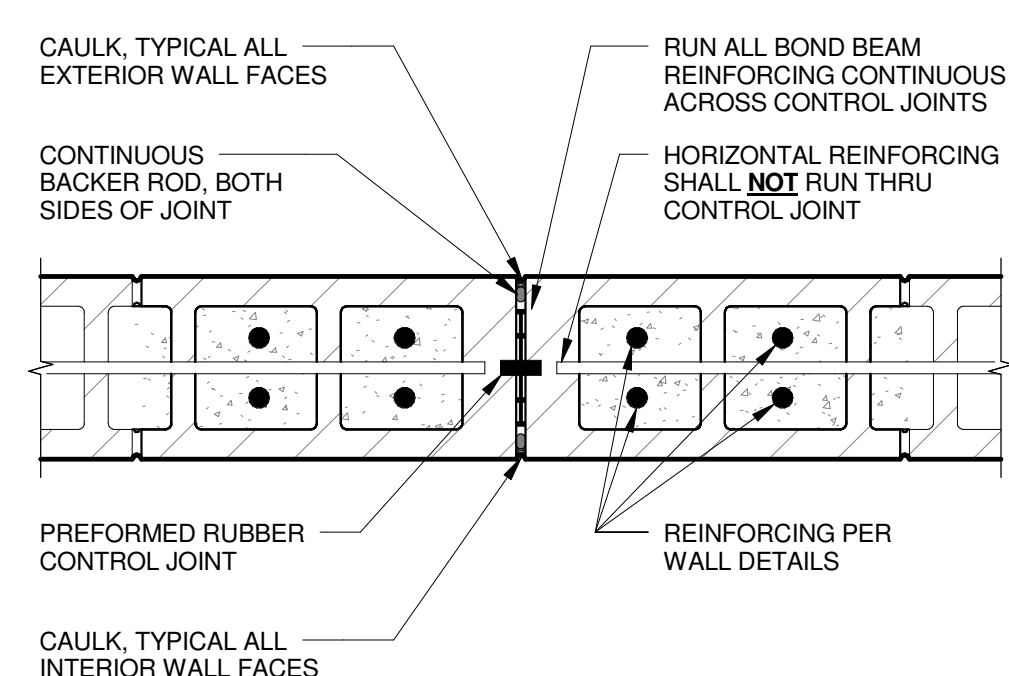
5 TYPICAL MASONRY BOND BEAM
1 1/2\"/>



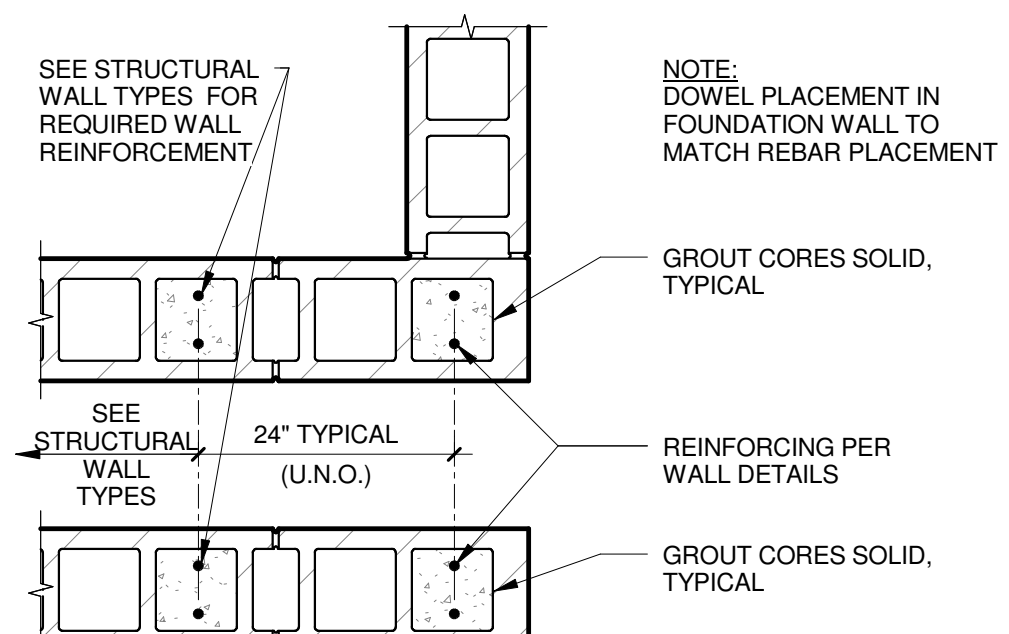
6 TYPICAL MASONRY BOND BEAM INTERSECTION
3/4\"/>



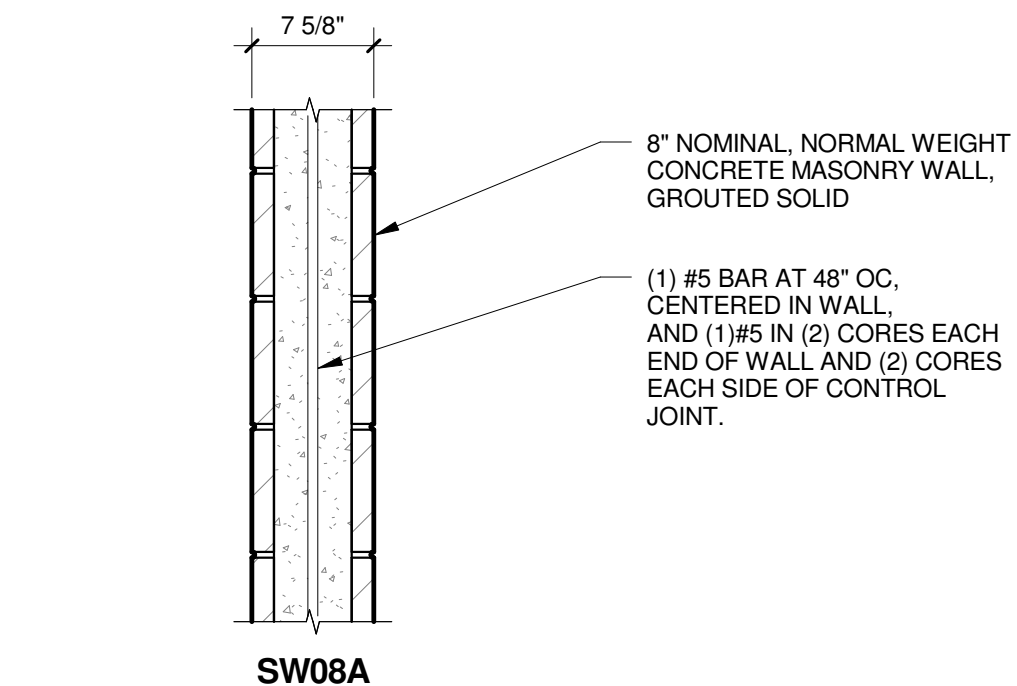
1 STRUCTURAL WALL TYPES
1\"/>



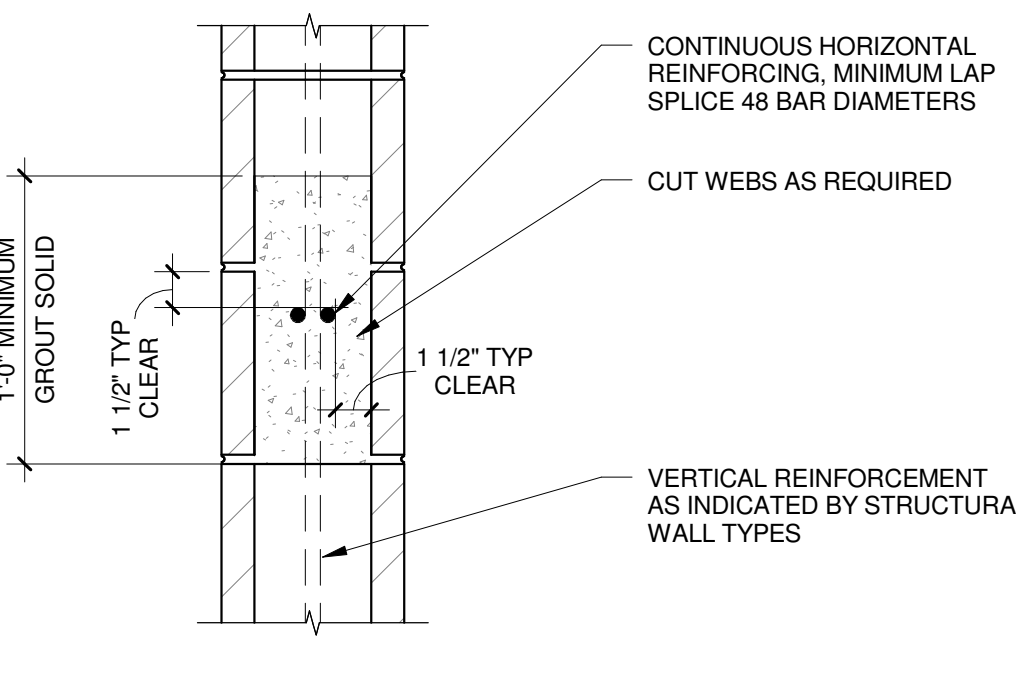
3 TYPICAL MASONRY CONTROL JOINT
1 1/2\"/>



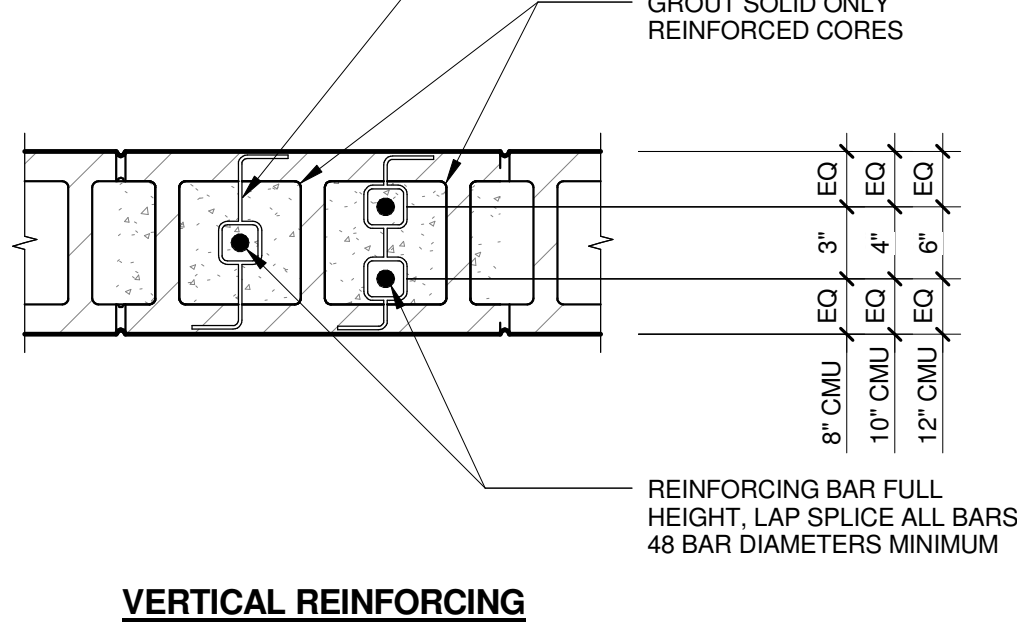
4 TYPICAL REBAR PLACEMENT IN MASONRY WALL
1\"/>



2 TYPICAL BAR PLACEMENT IN MASONRY CORE
1 1/2\"/>

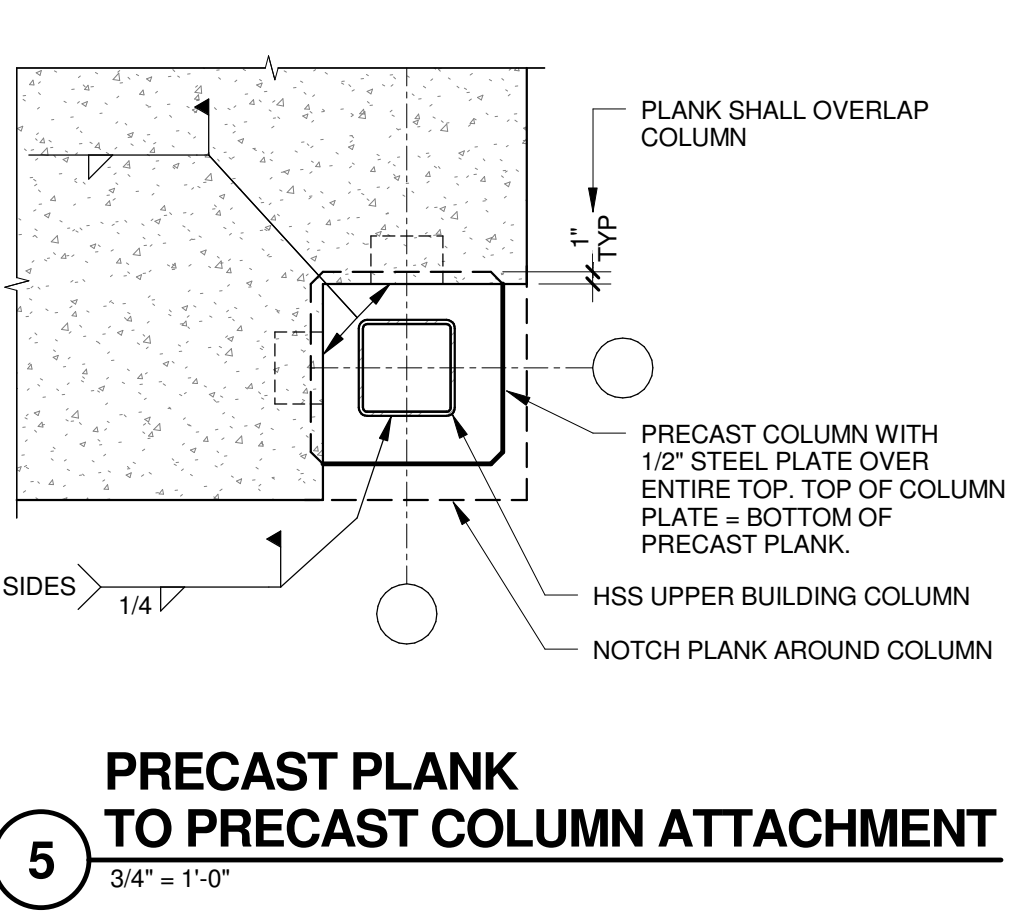
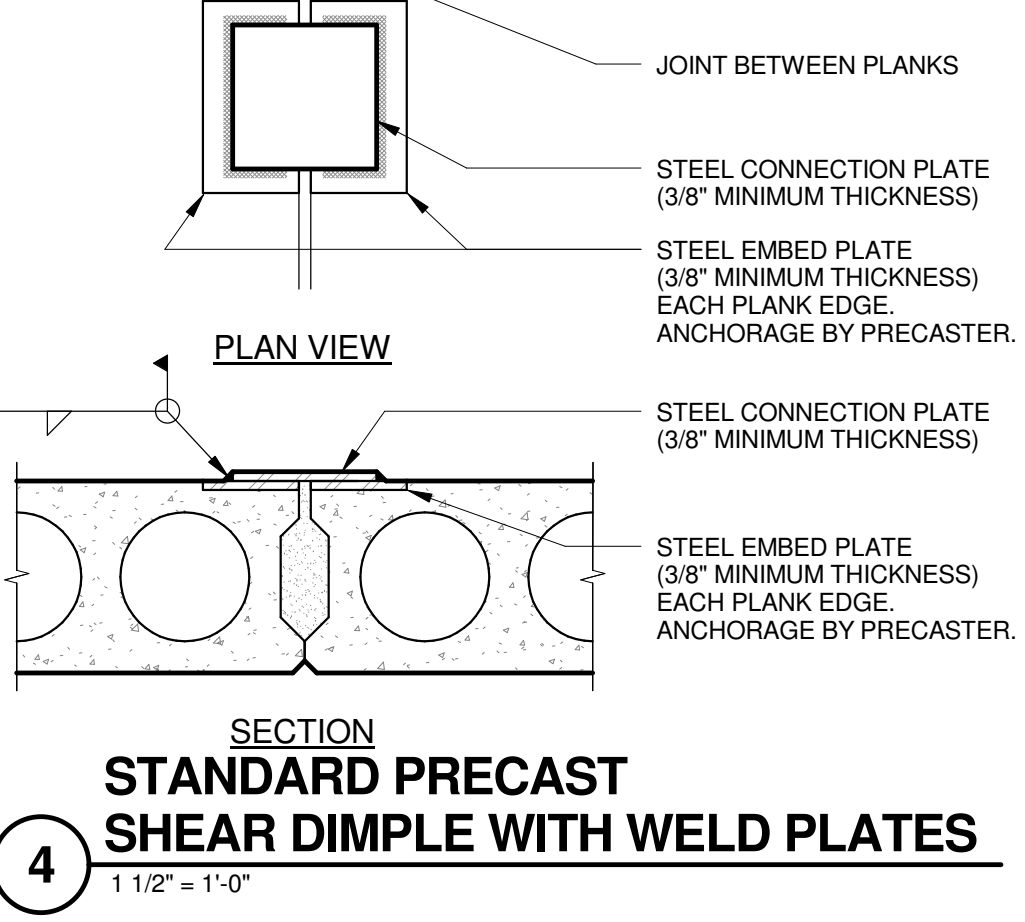
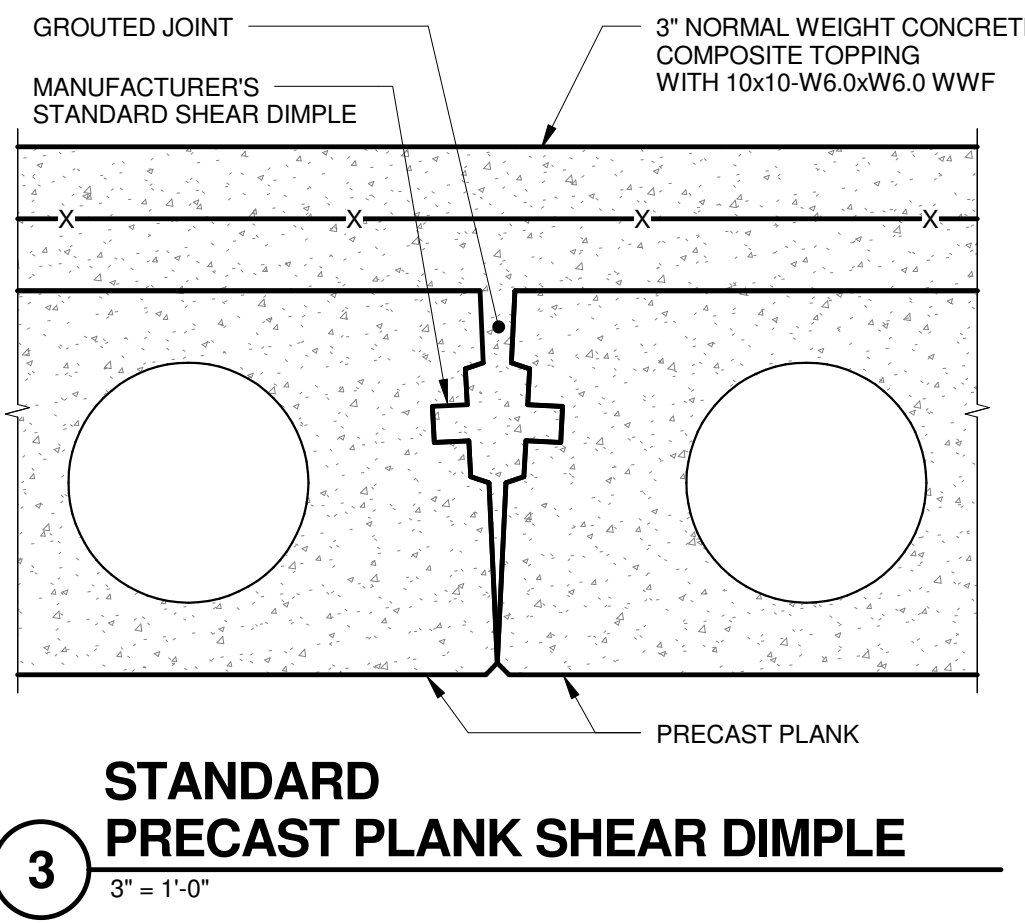
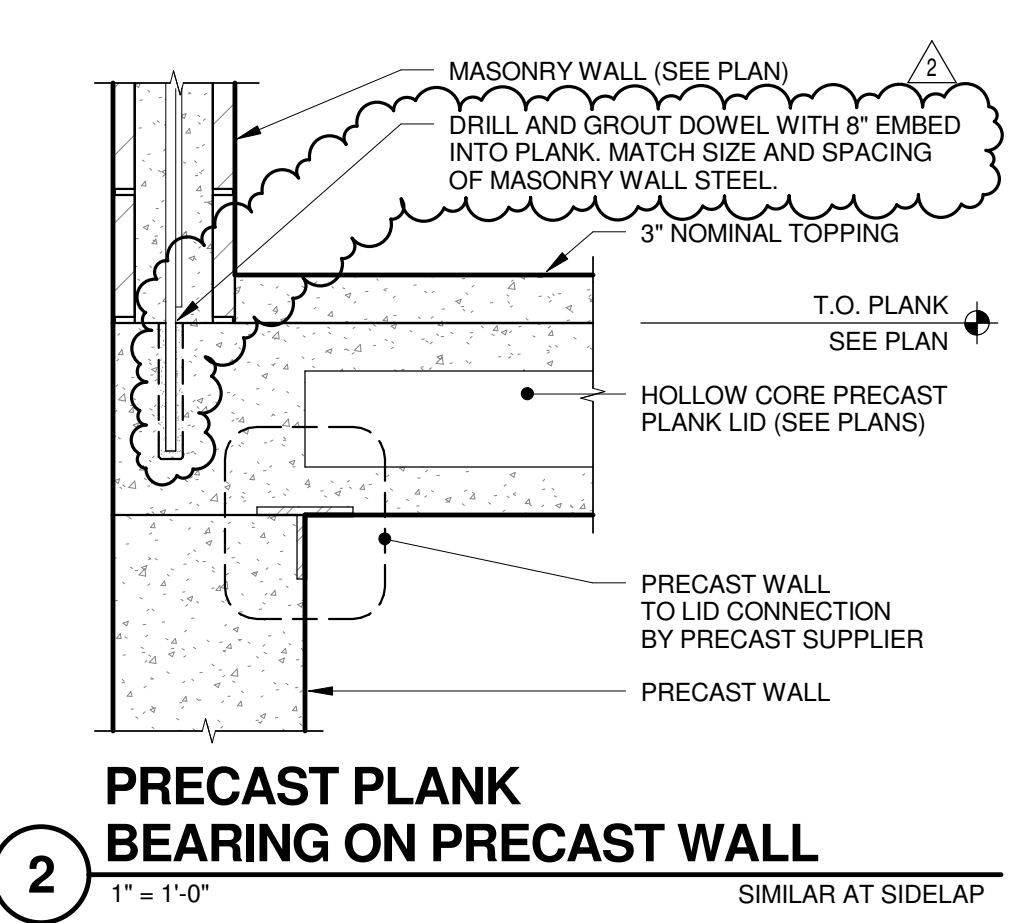
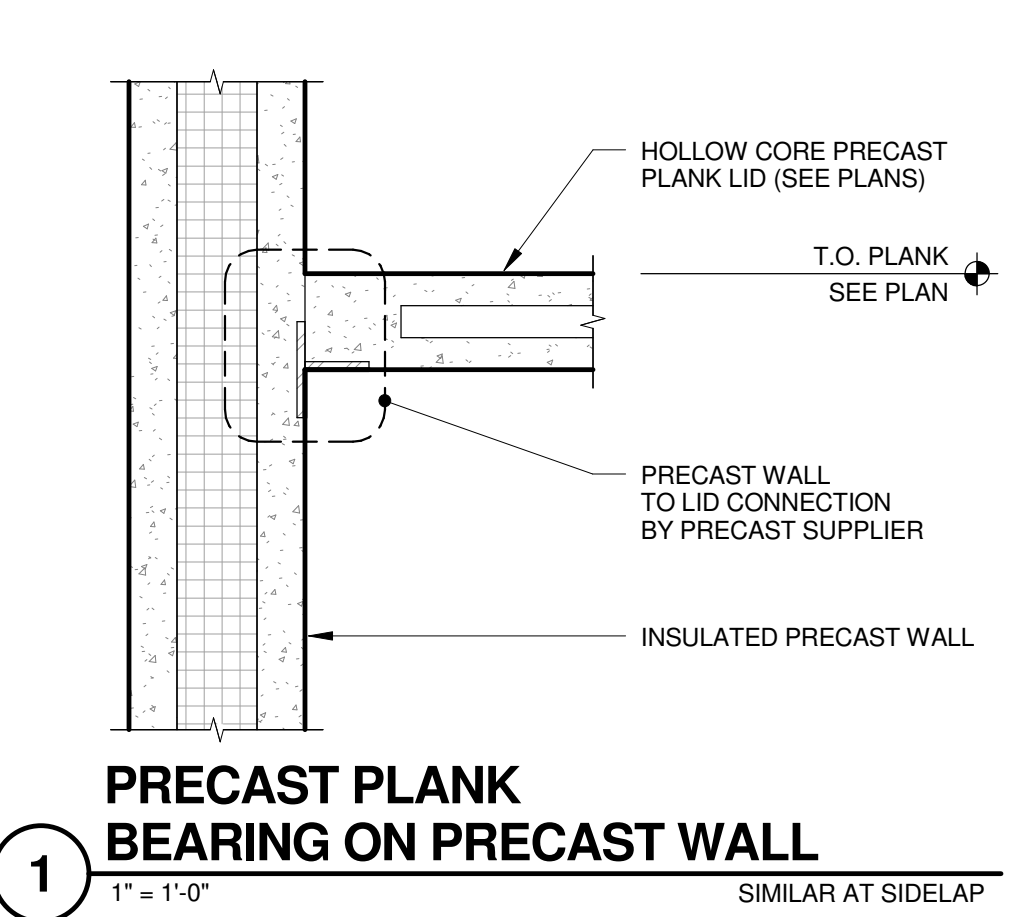
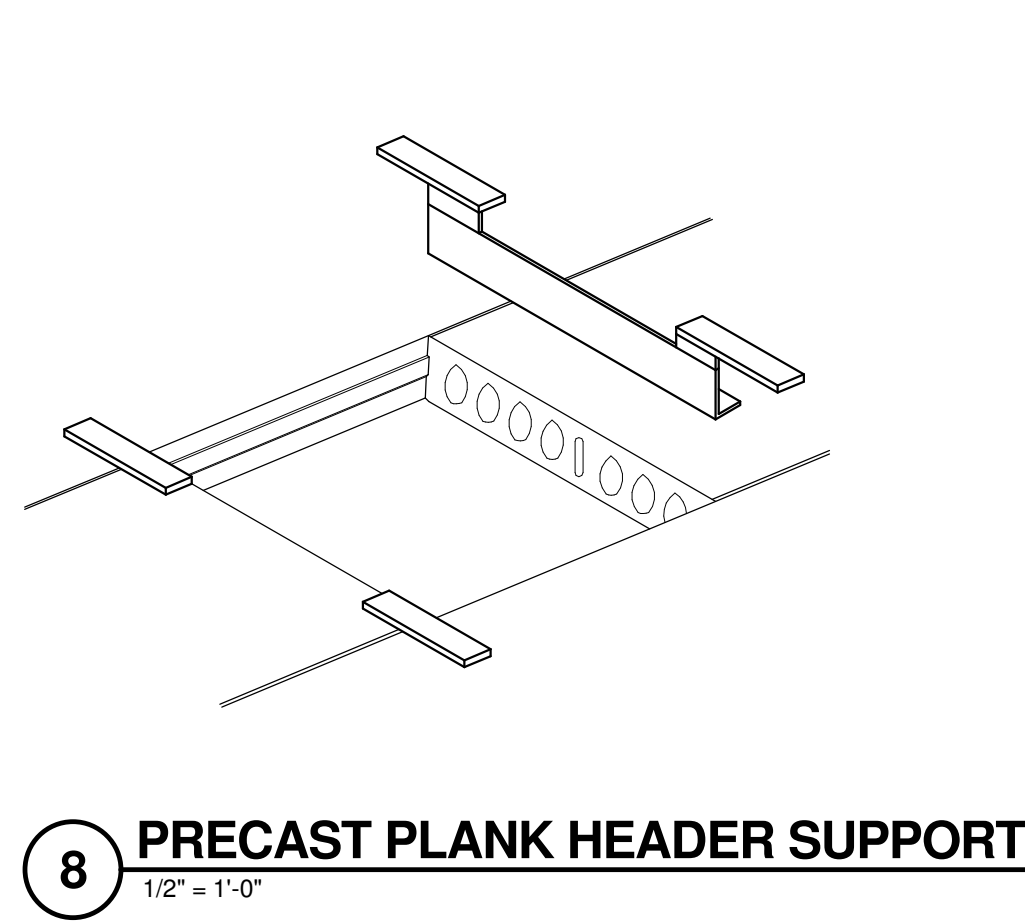
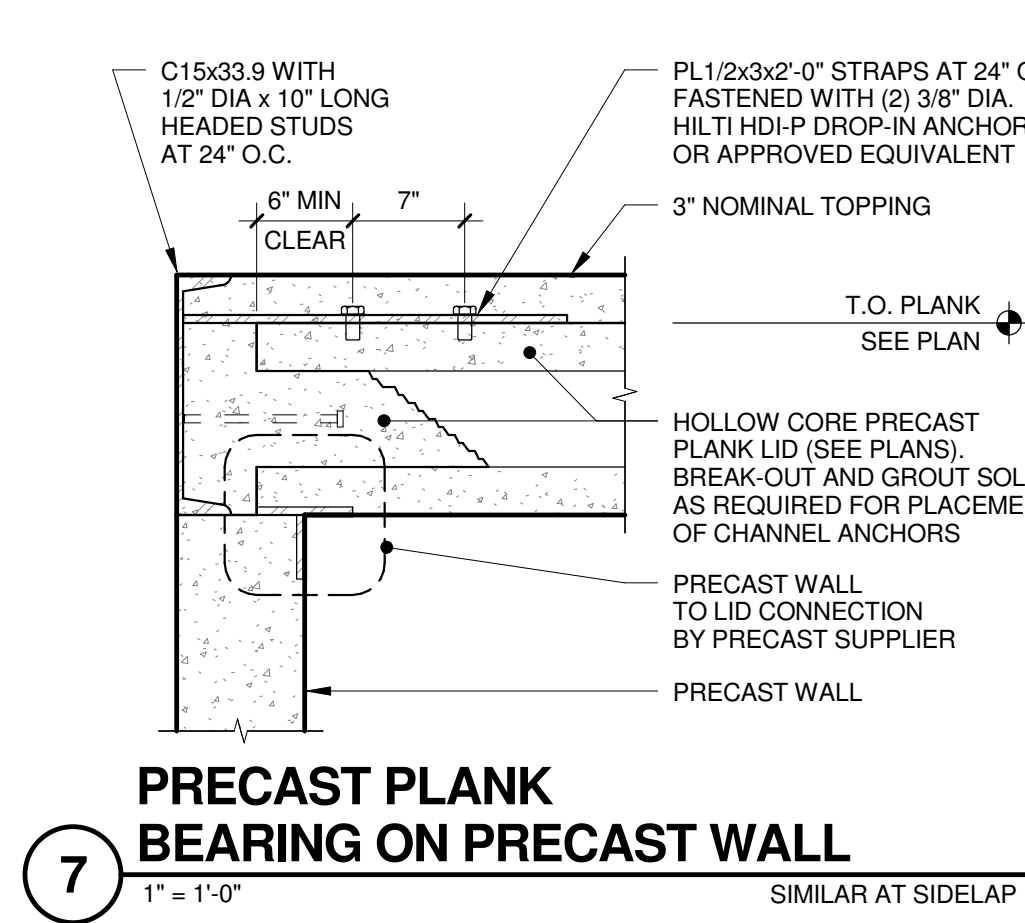
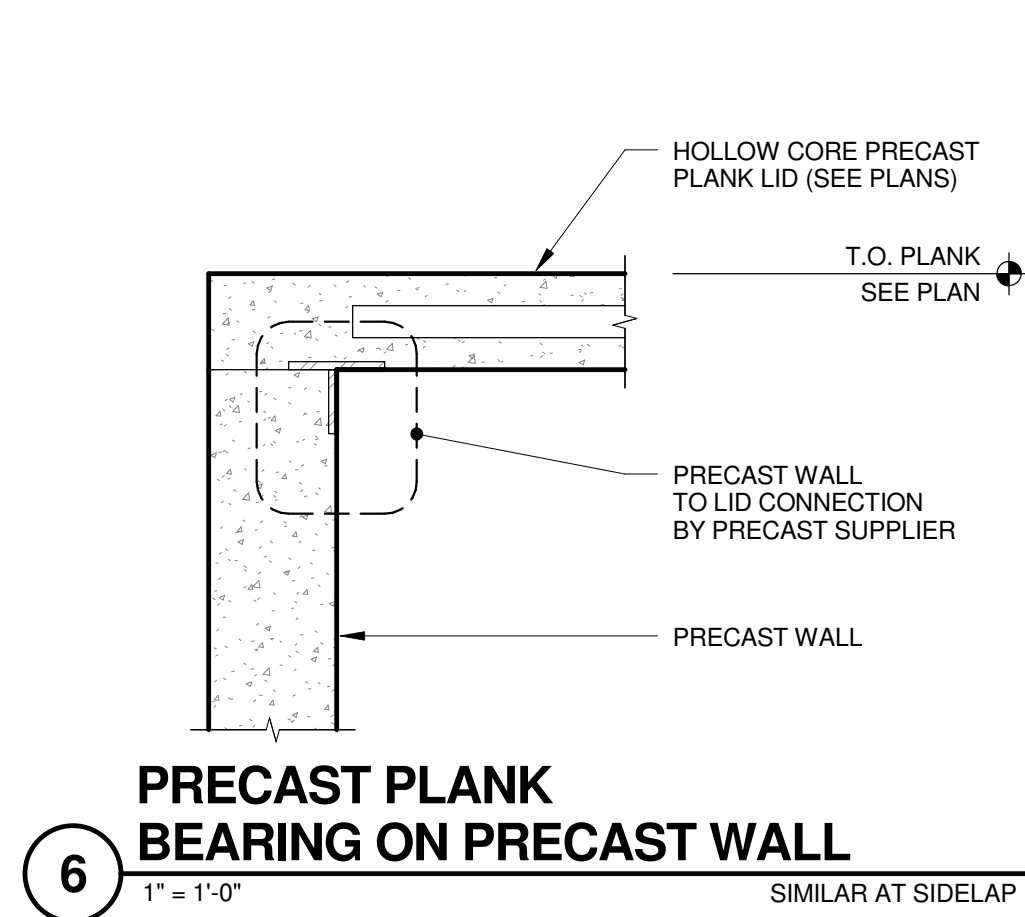
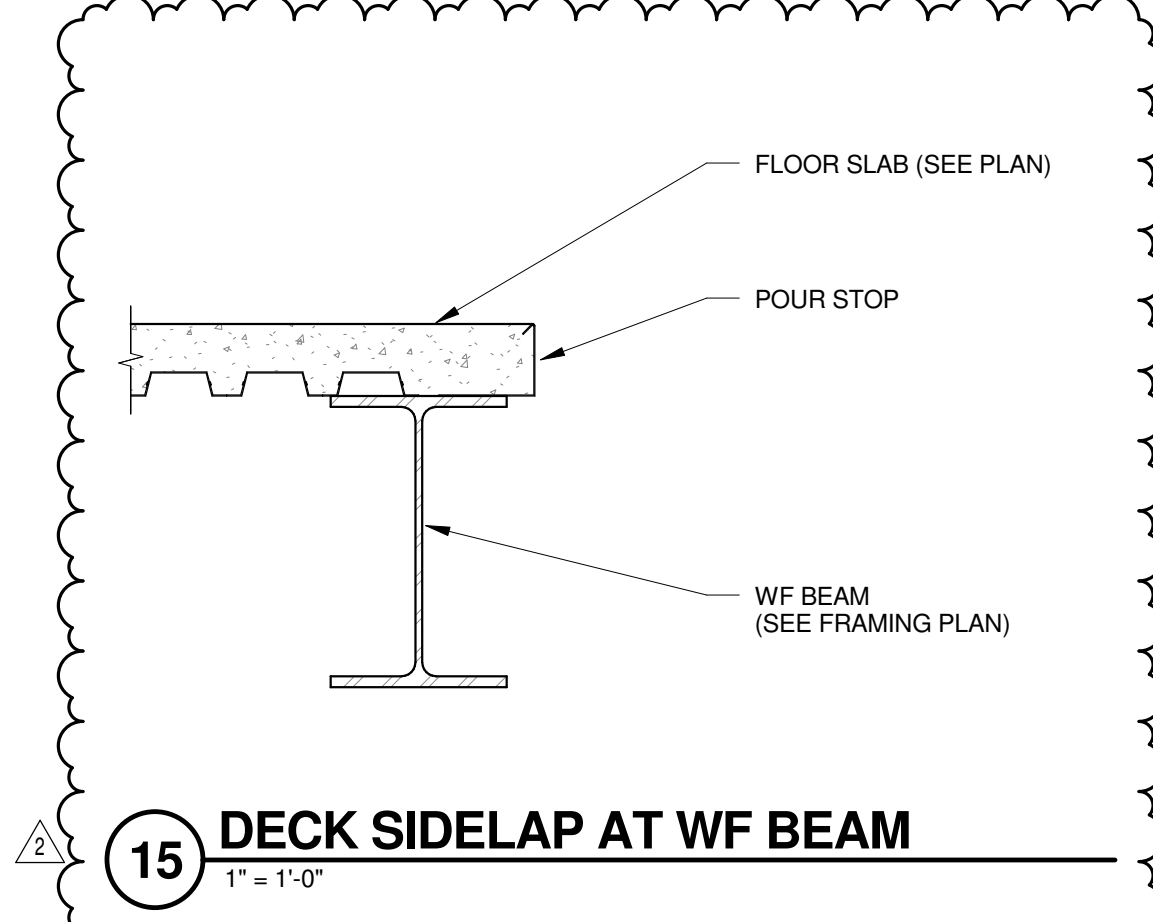
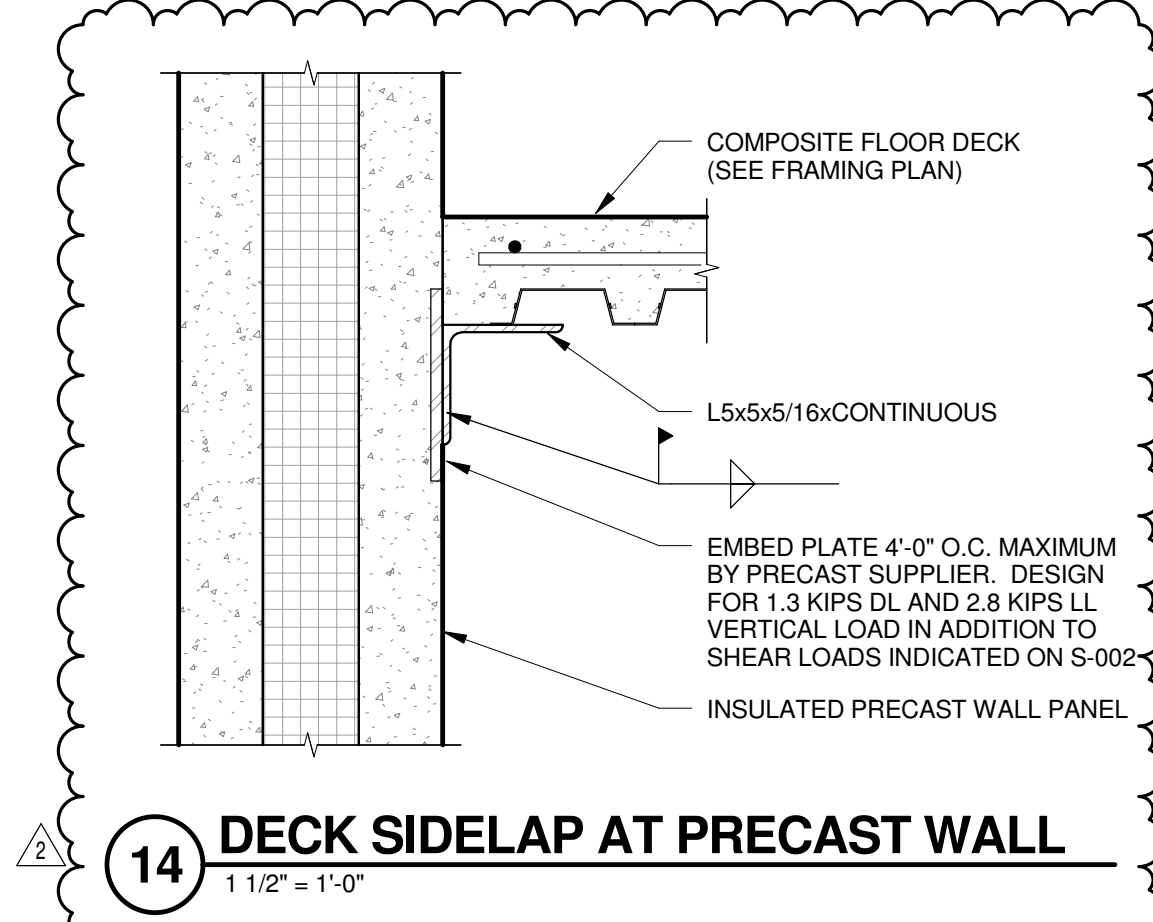
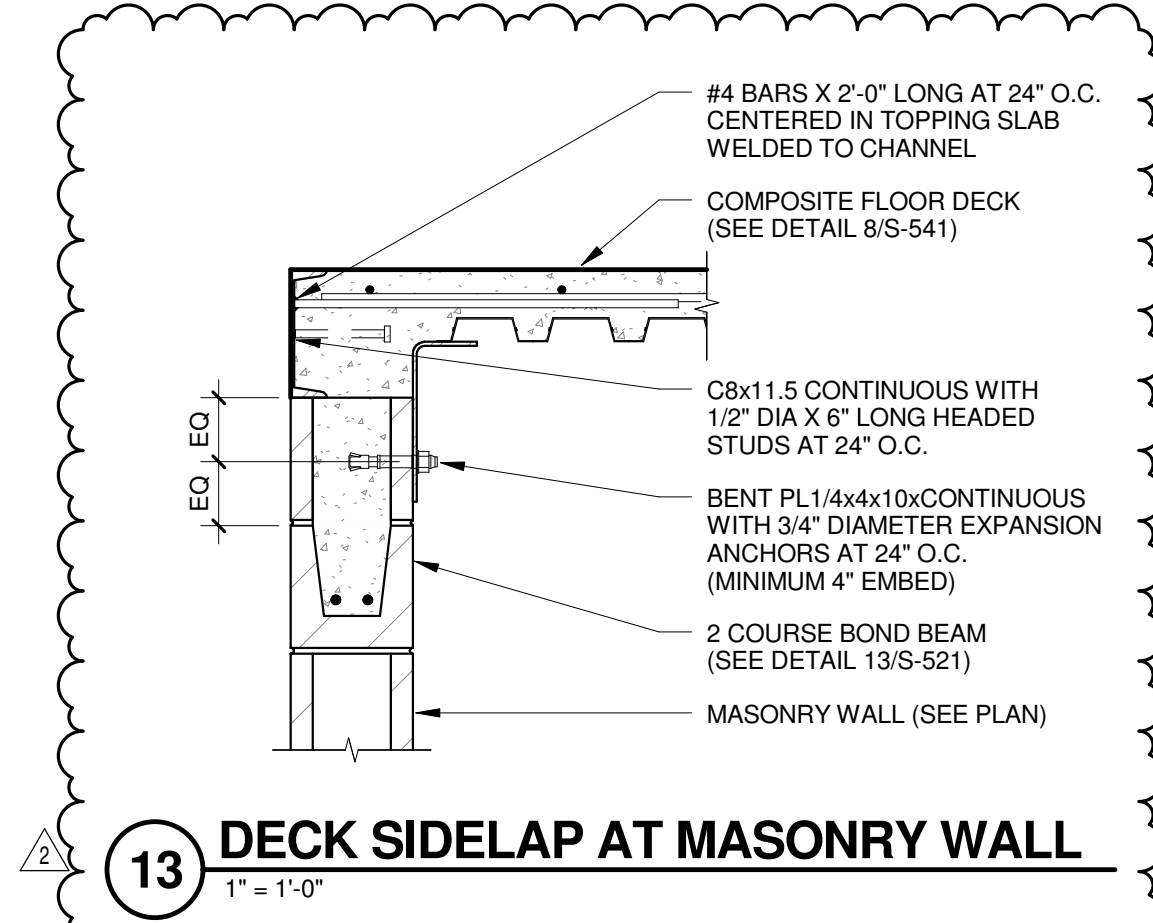
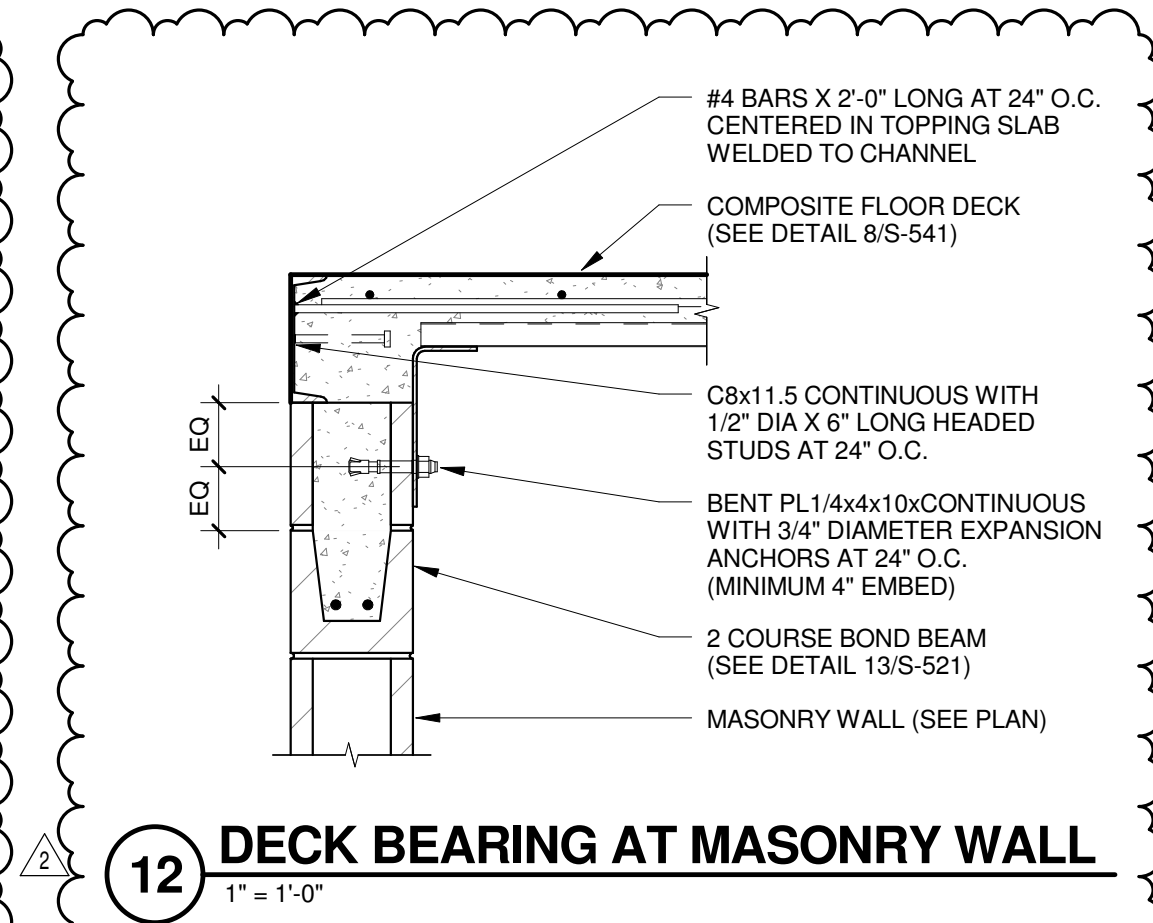
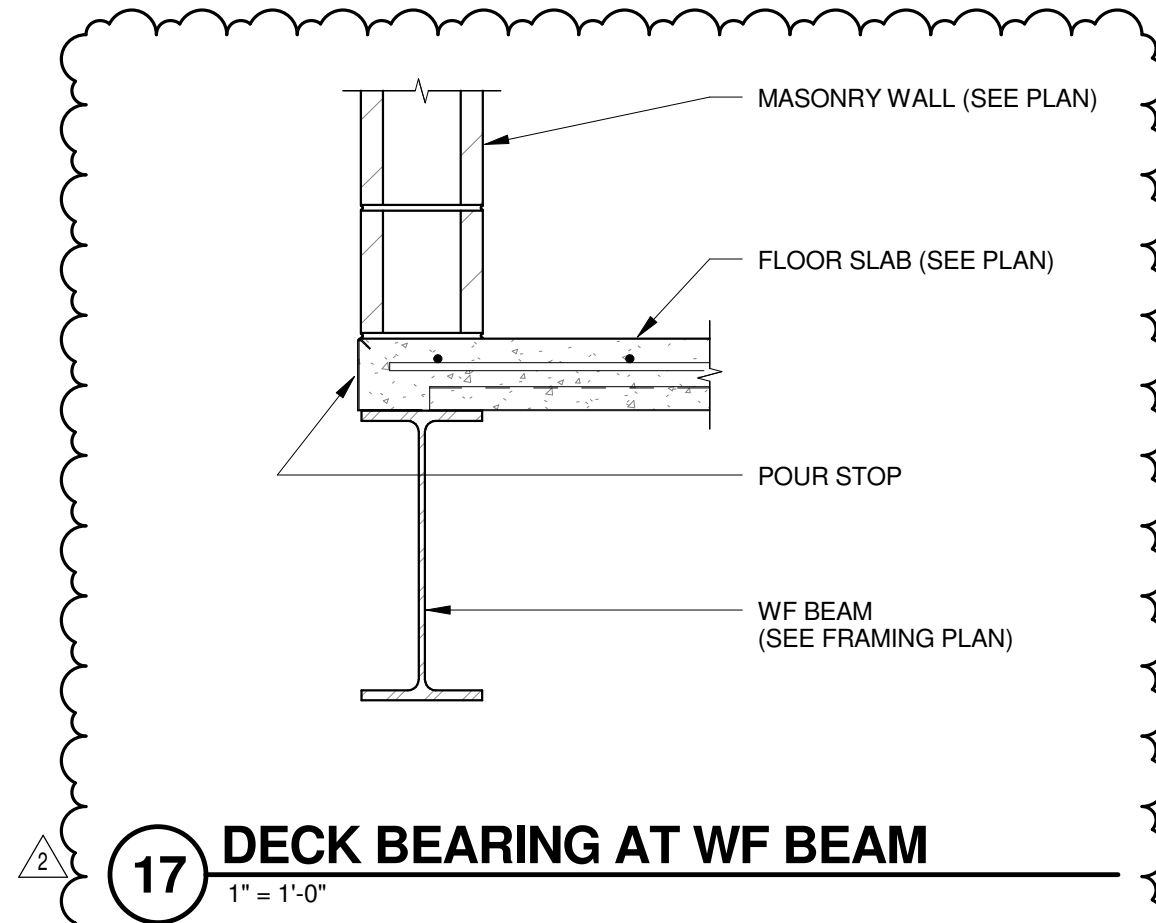
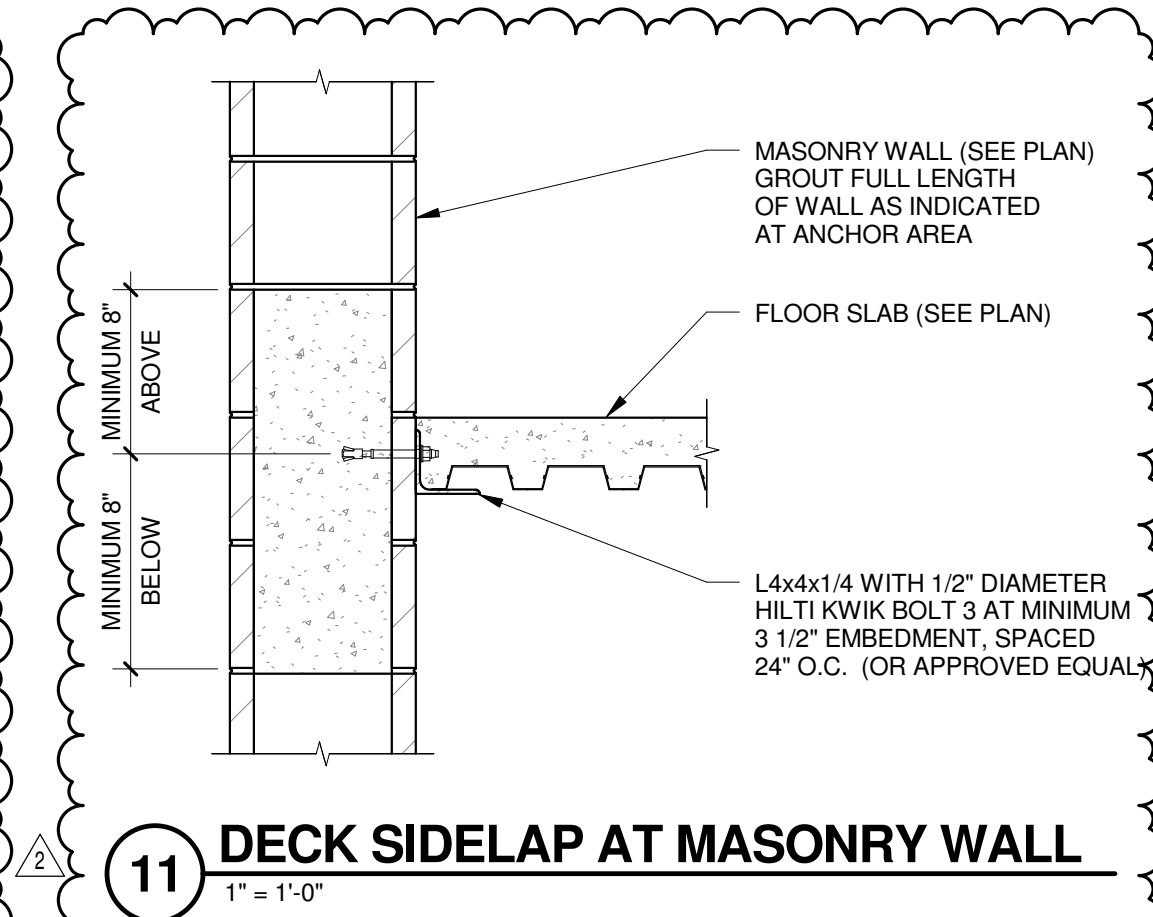
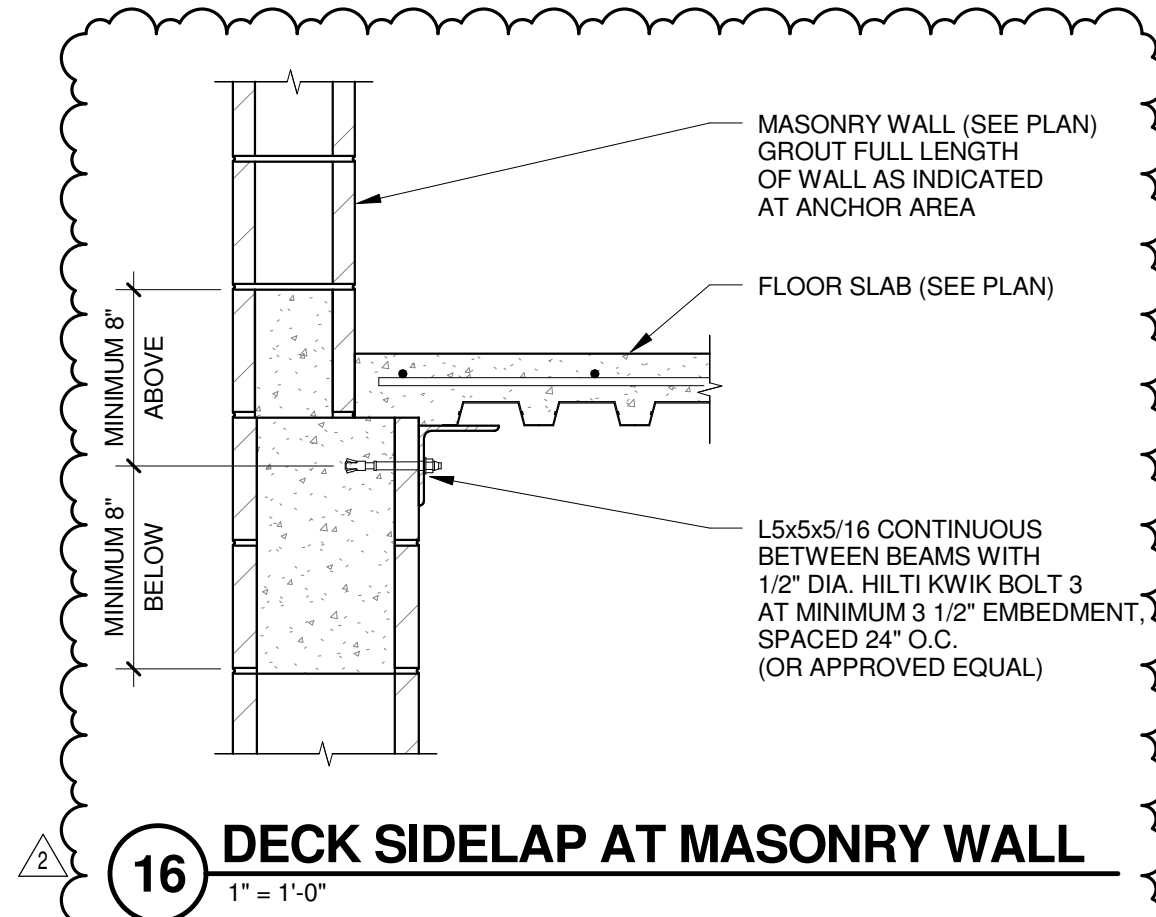


7 TYPICAL NON-LOAD BEARING MASONRY WALL BASE CONNECTION
1\"/>

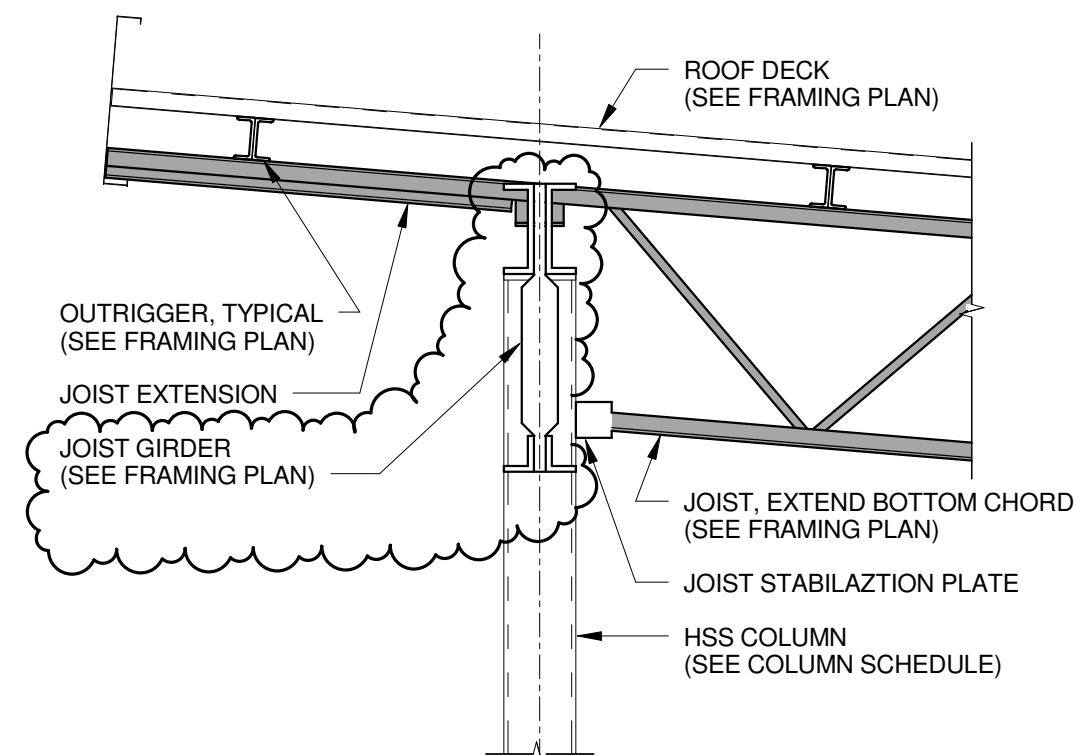


8 TYPICAL NON-LOAD BEARING MASONRY WALL TOP CONNECTION
1\"/>

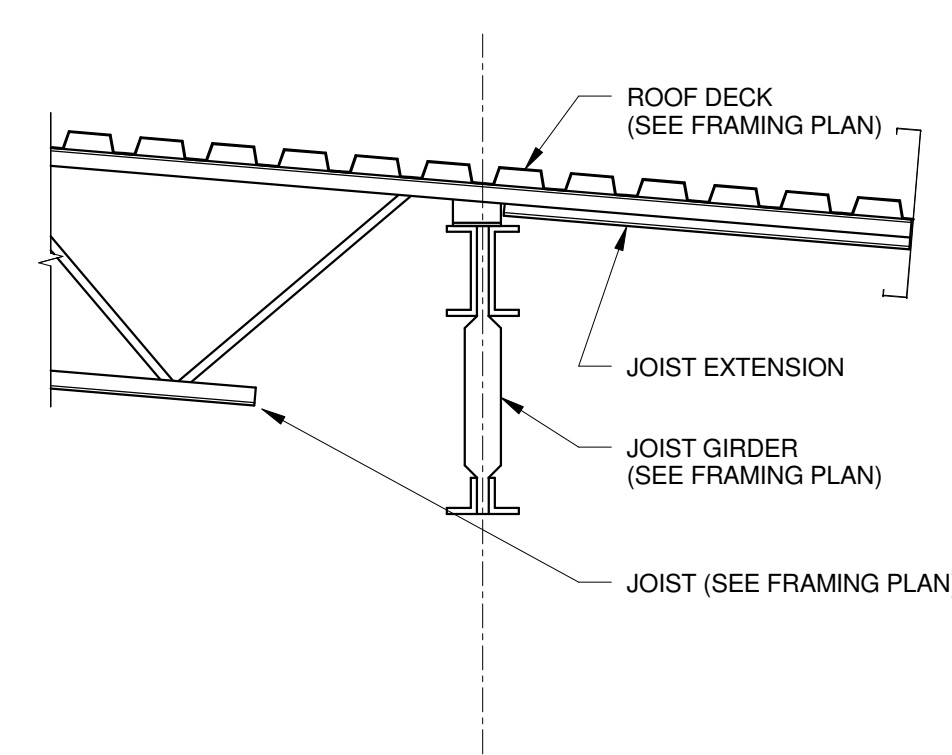
2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
No	REVISION/SUBMISSION	DATE
COPPERHEAD 2019 - Statco Architecture, Inc. This document and the ideas and design concepts incorporated herein, as an instrument of professional services, can not be used, in whole or in part for this or any other project, without the written authorization of RNL.		
PROJECT No: 1303500-160264.01		



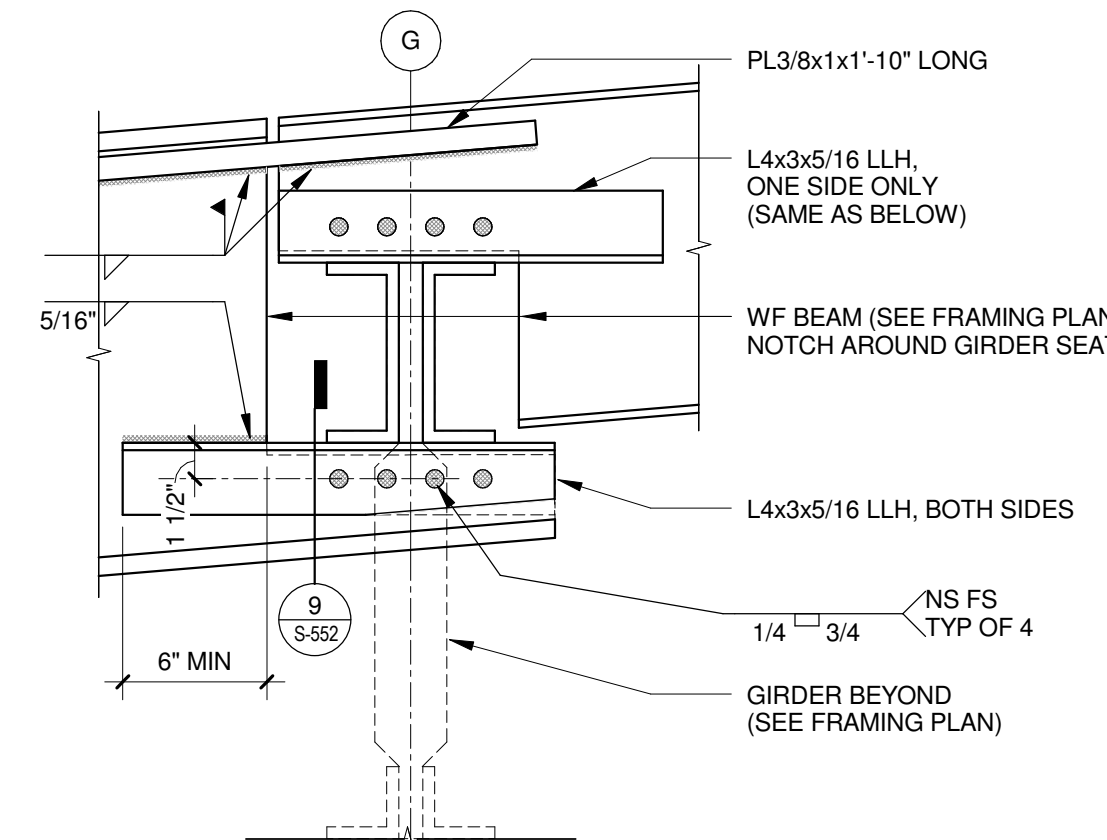




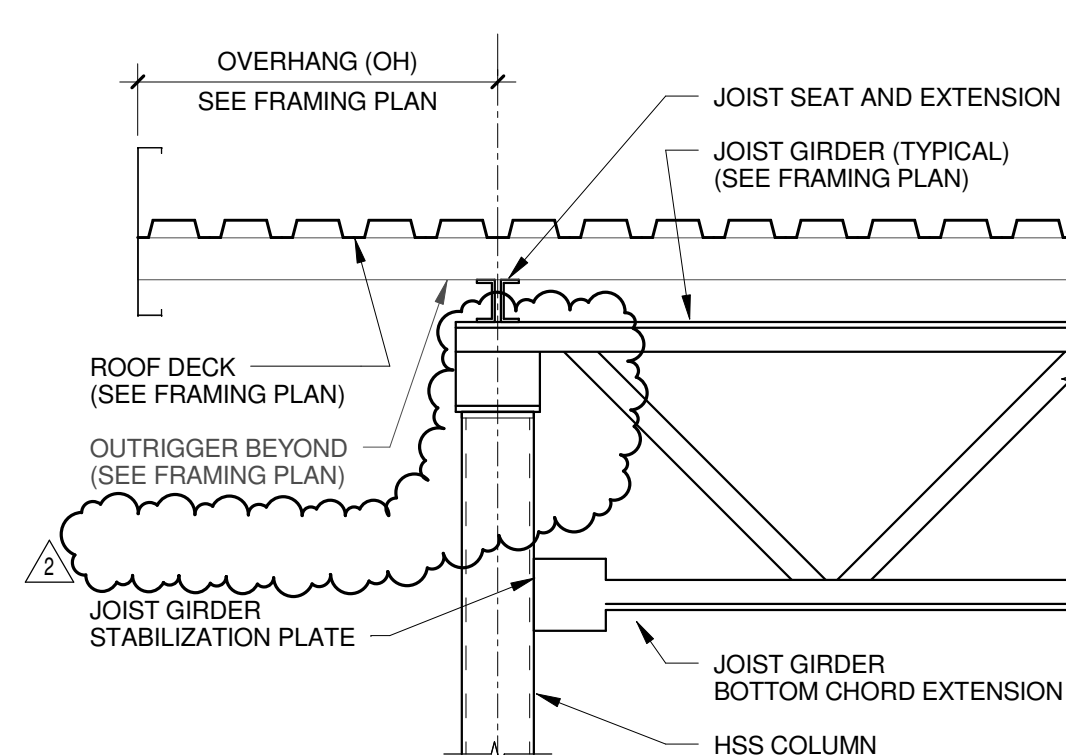
15 JOIST BEARING ON GIRDER AT CORNER COLUMN
3/4" = 1'-0"



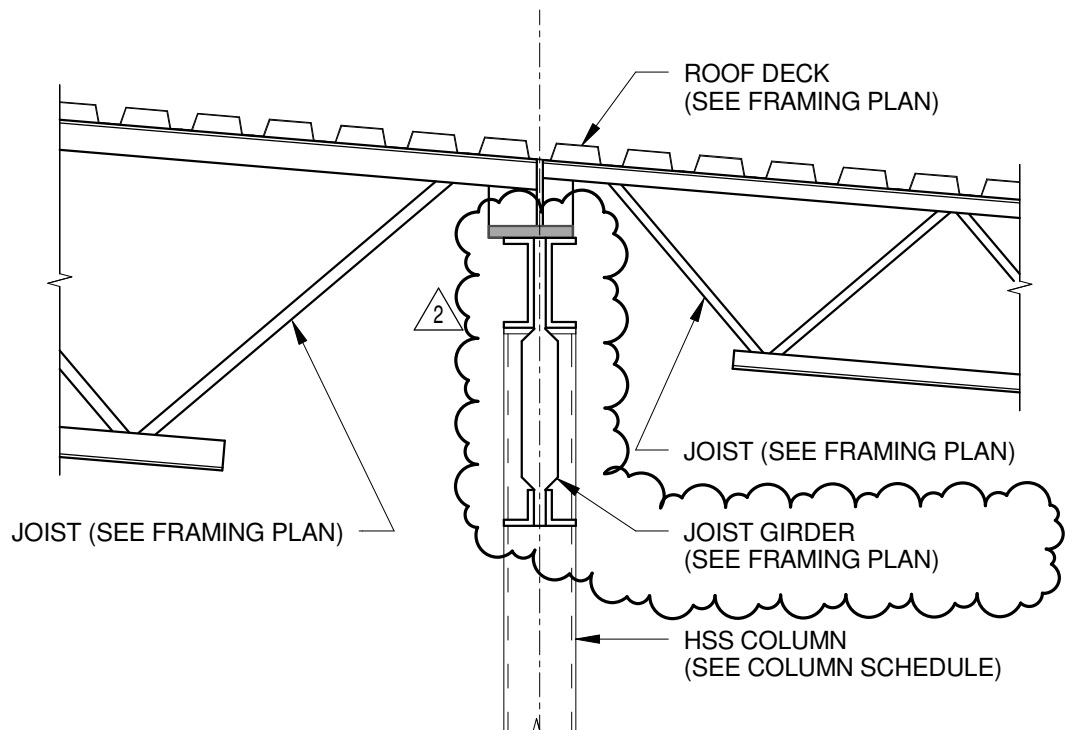
10 JOIST BEARING AT GIRDER
3/4" = 1'-0"



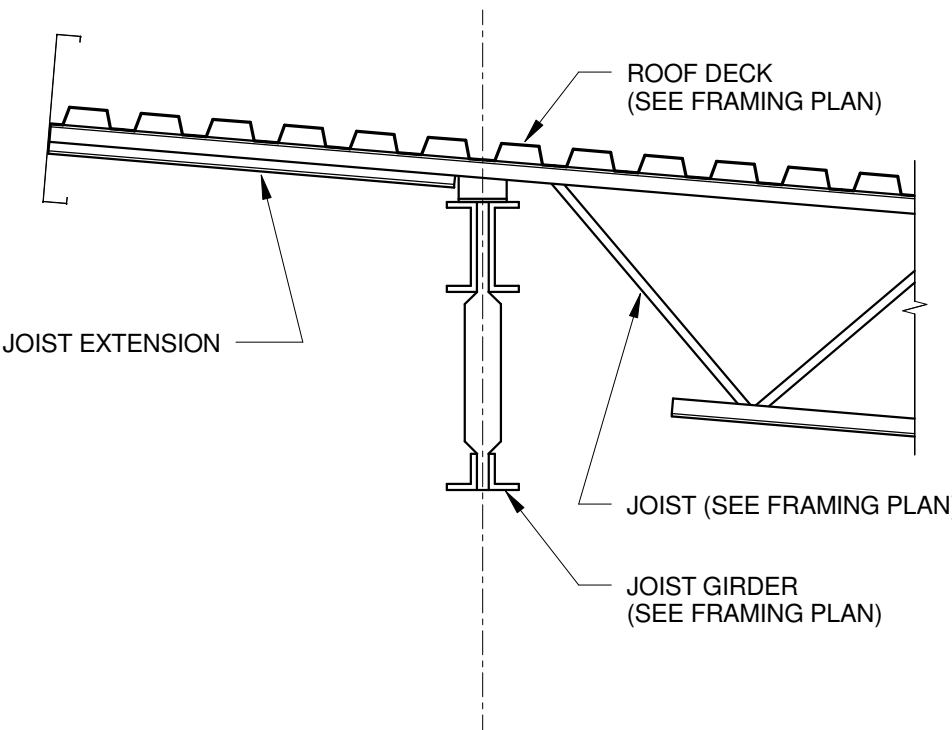
6 WF BEAM BEARING AT WF COLUMN
1 1/2" = 1'-0"



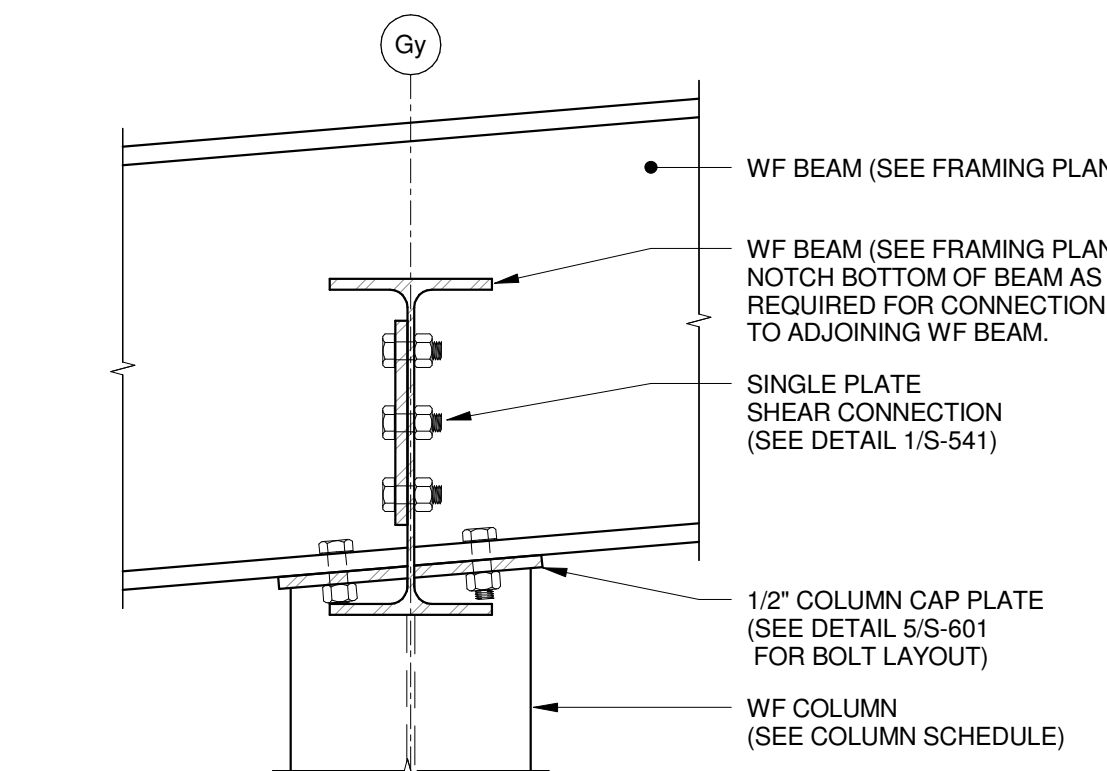
1 GIRDER AT CORNER COLUMN
3/4" = 1'-0"



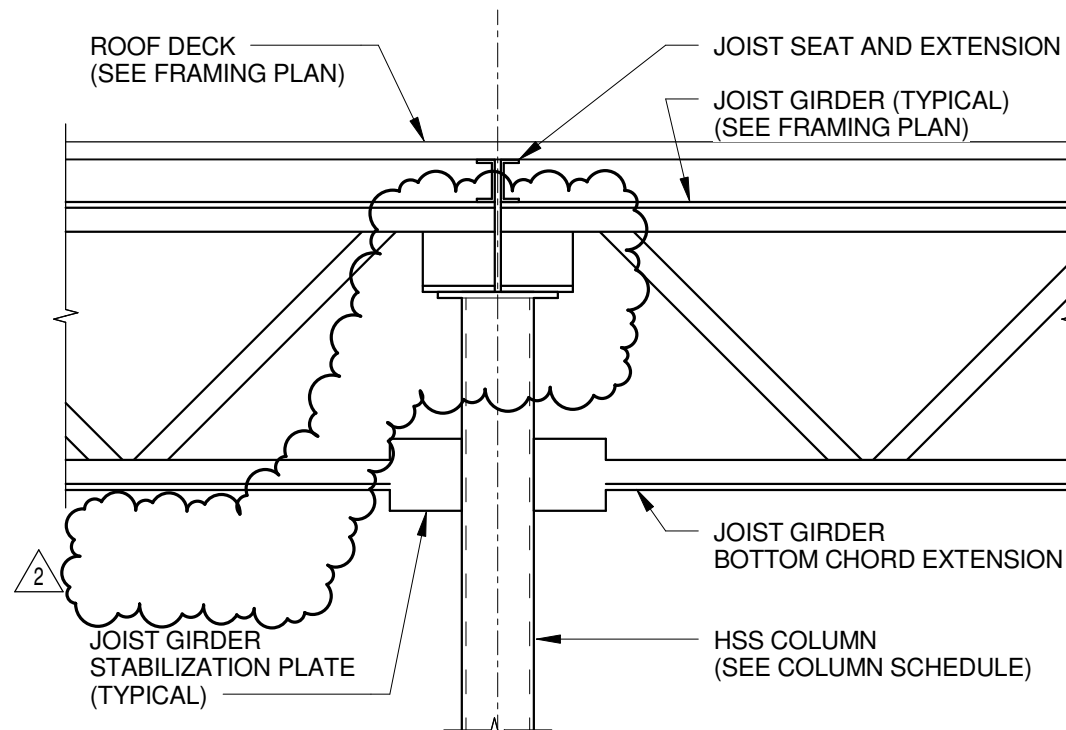
16 JOIST BEARING ON GIRDER AT COLUMN
3/4" = 1'-0"



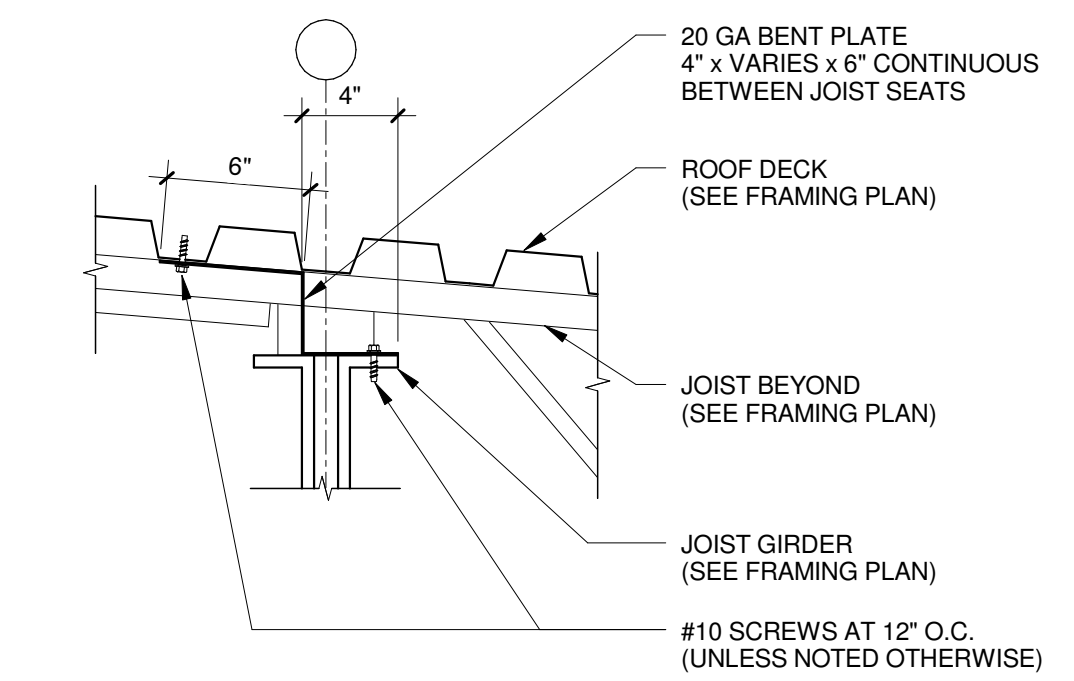
11 JOIST BEARING AT GIRDER
3/4" = 1'-0"



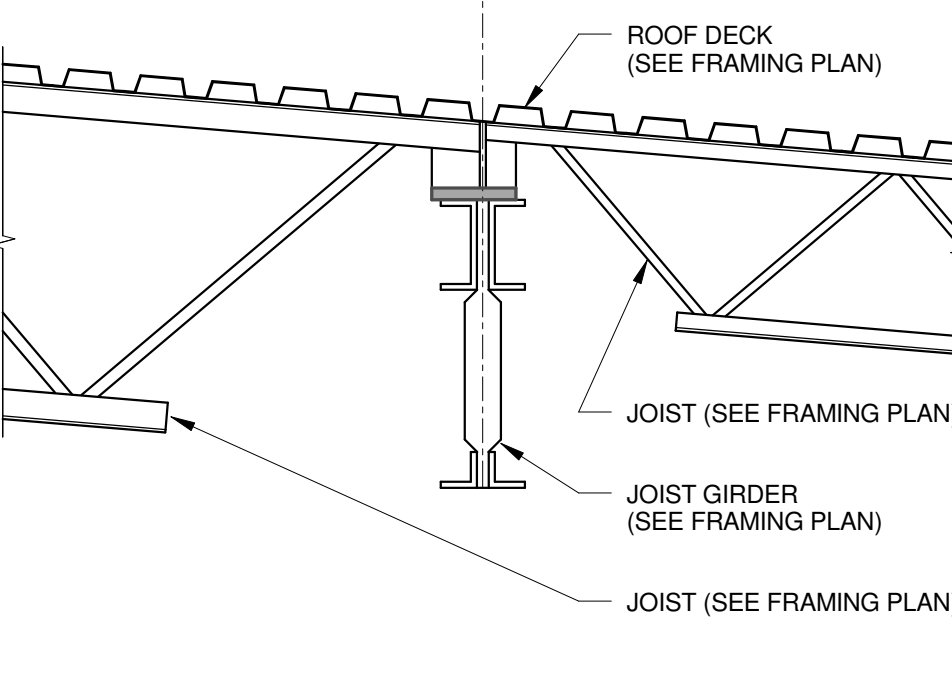
7 WF BEAM TO COLUMN CONNECTION
1 1/2" = 1'-0"



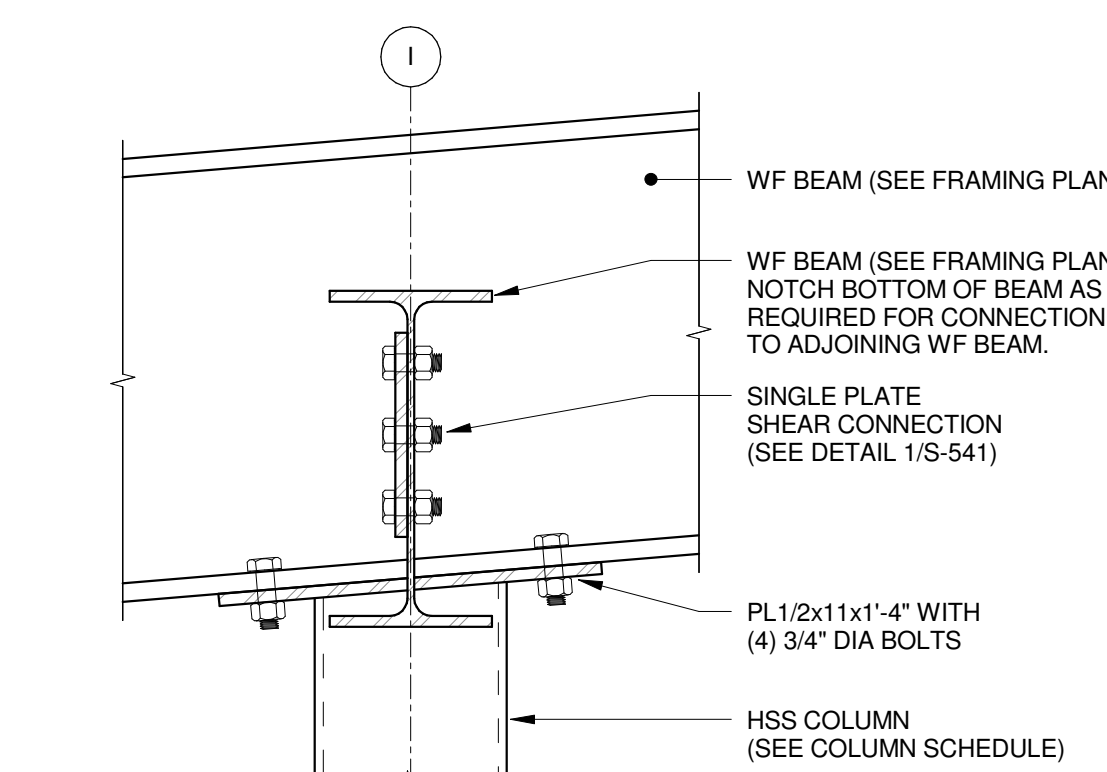
2 GIRDER AT SIDE COLUMN
3/4" = 1'-0"



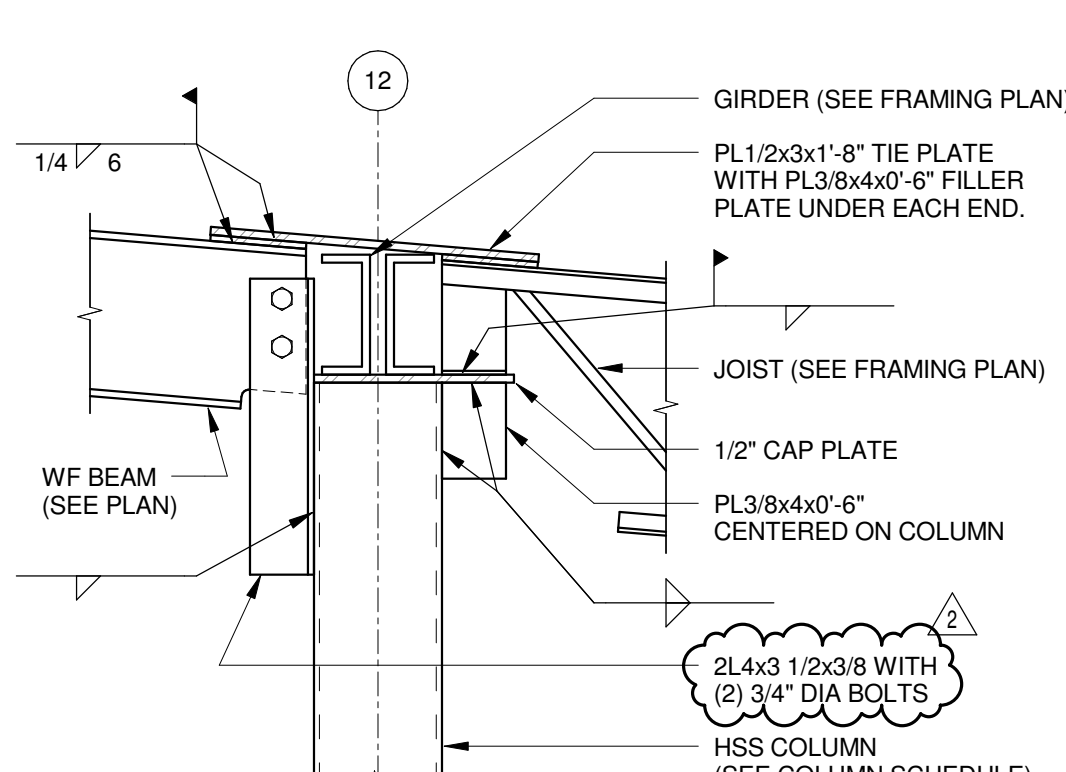
17 GIRDER EAVE CONDITION TYPICAL
1 1/2" = 1'-0"



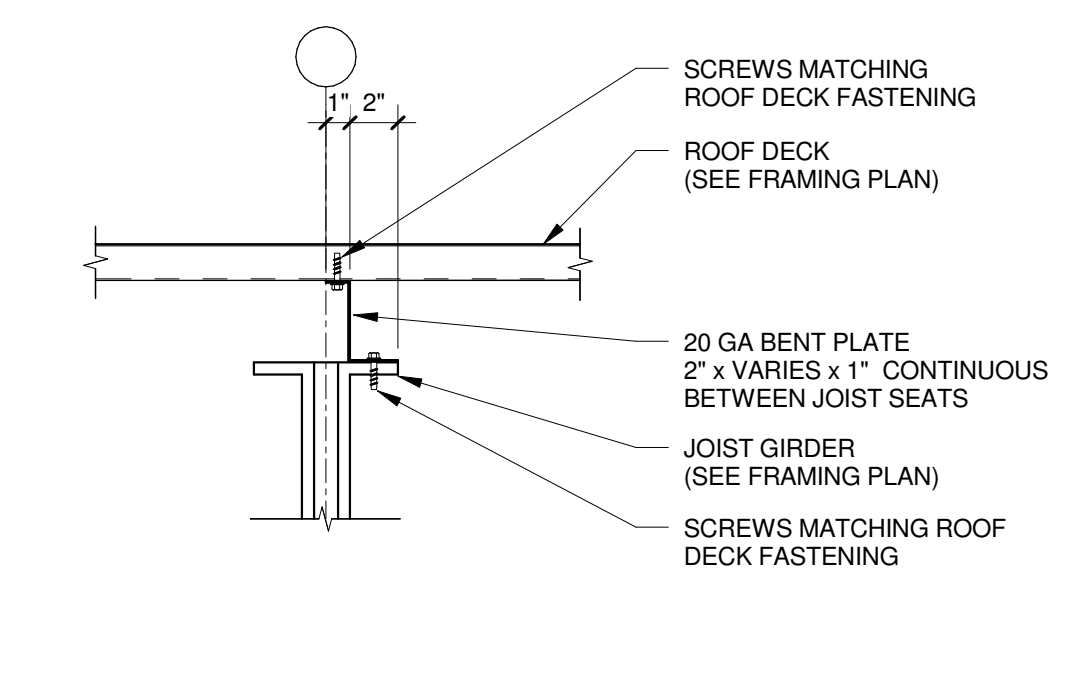
12 JOIST BEARING AT GIRDER
3/4" = 1'-0"



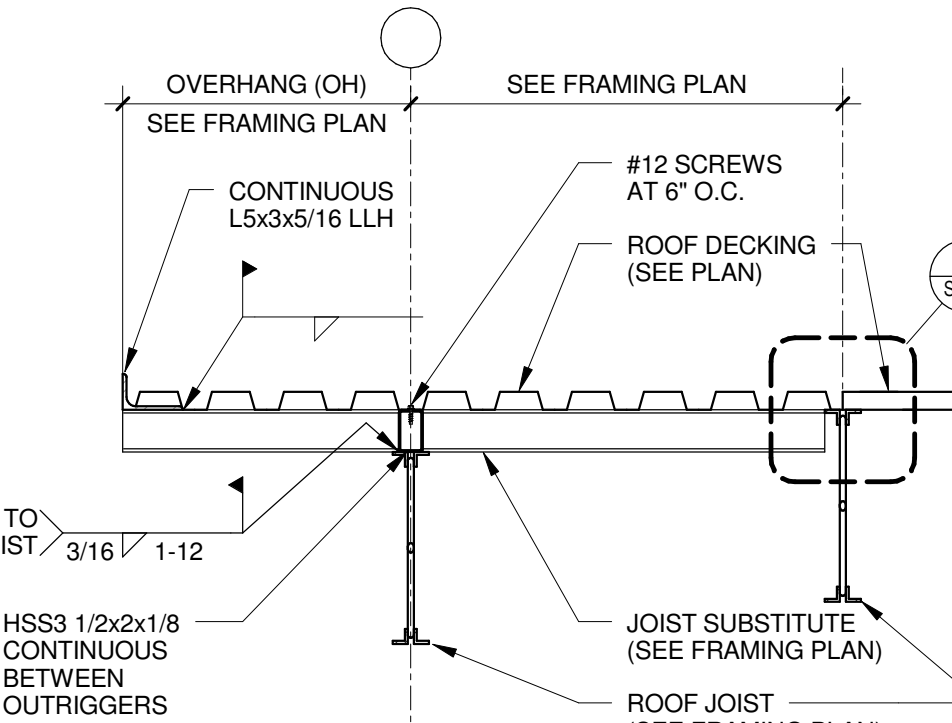
8 WF BEAM TO COLUMN CONNECTION
1 1/2" = 1'-0"



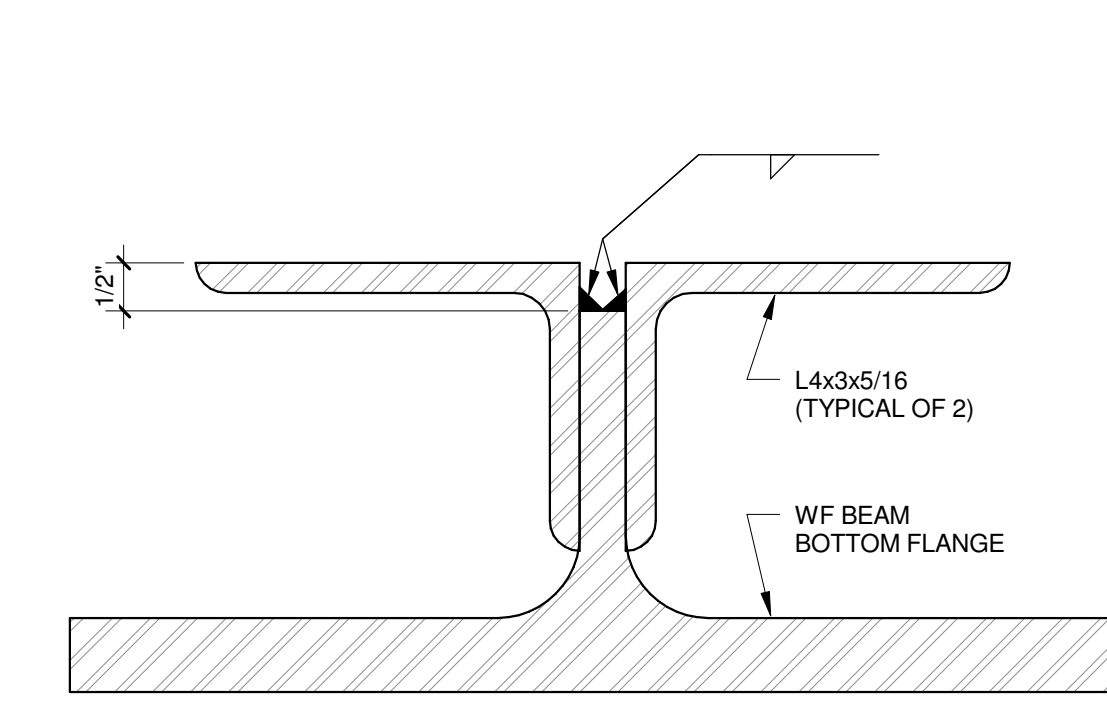
3 FRAMING CONNECTION
1" = 1'-0"



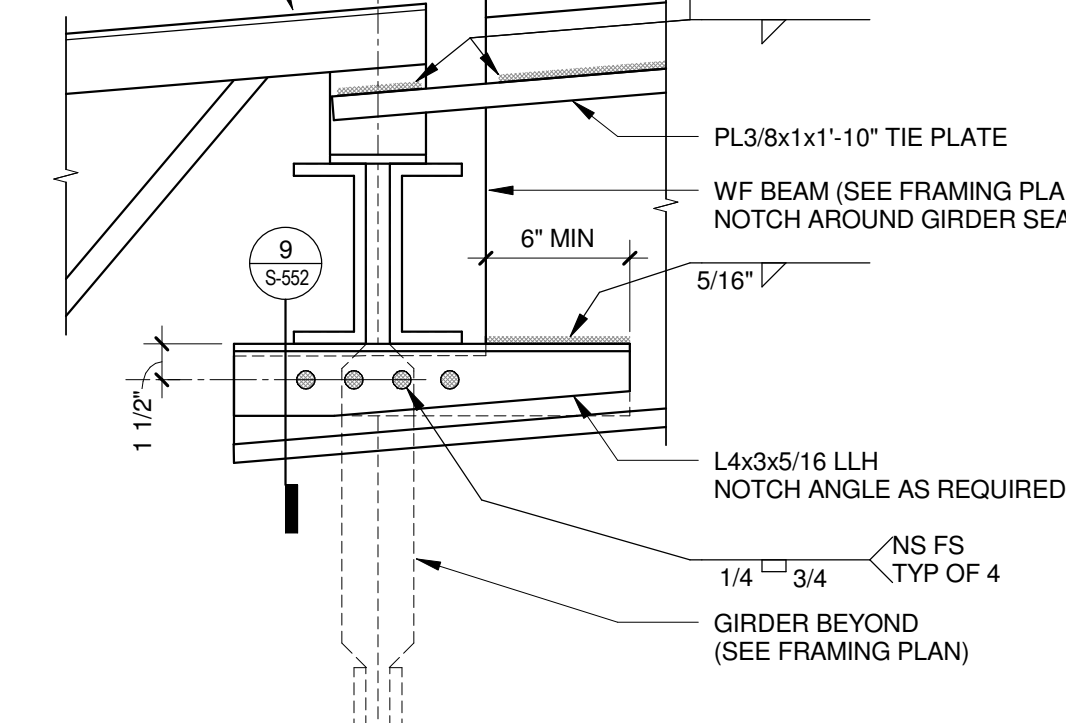
18 GIRDER AT RAKES CONDITION TYP
1 1/2" = 1'-0"



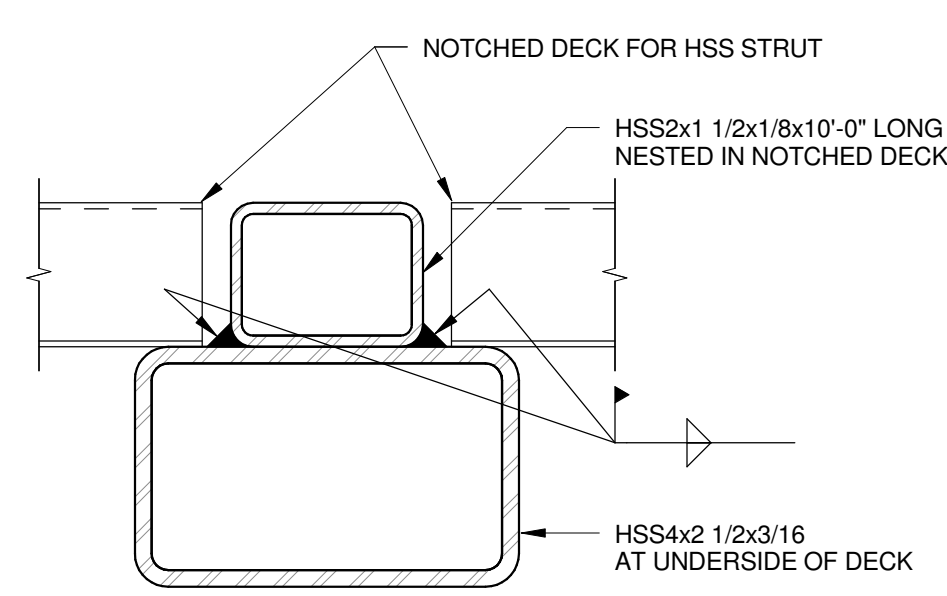
13 OUTRIGGER SECTION
3/4" = 1'-0"



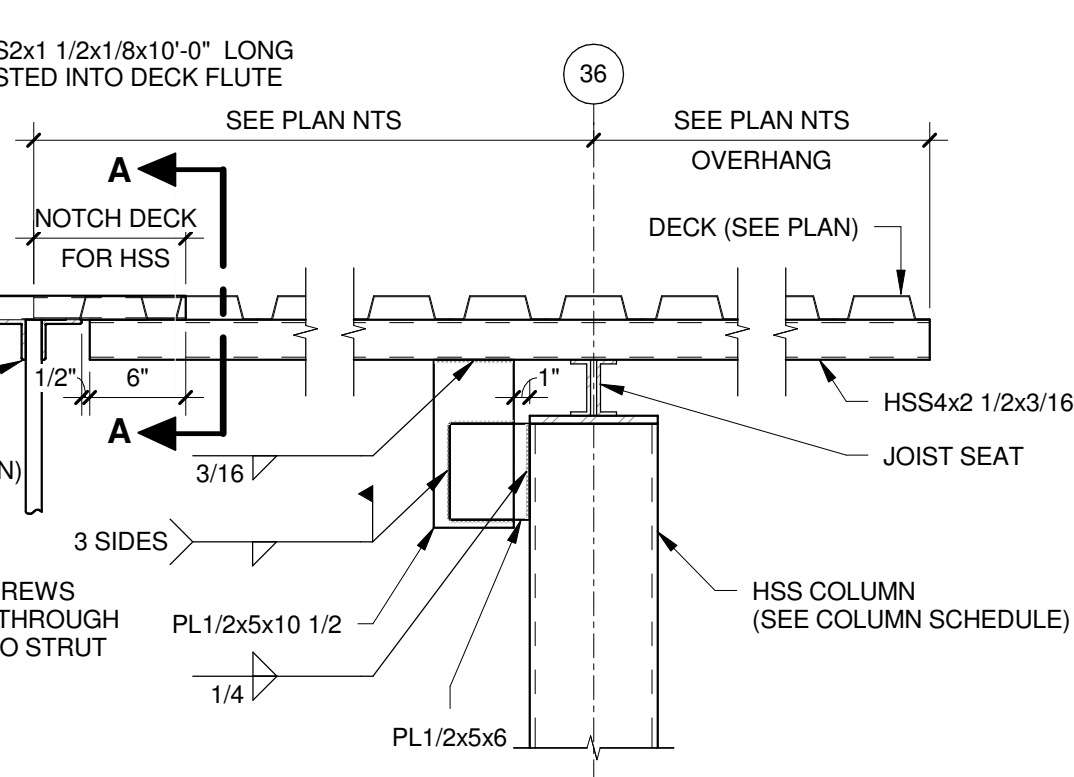
9 GIRDER SUPPORT BRACKET
6" = 1'-0"



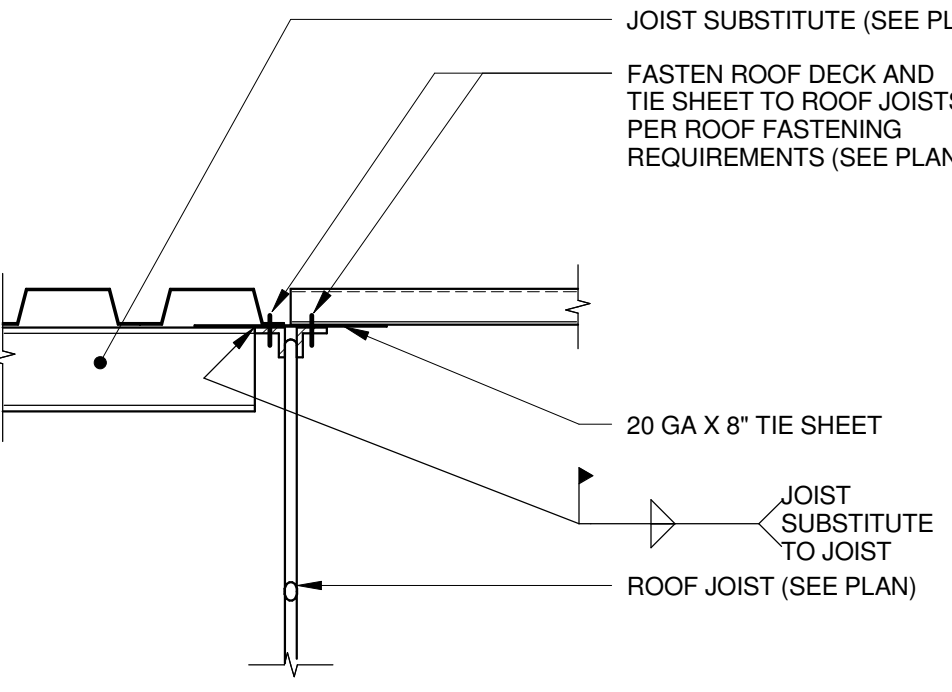
4 ROOF FRAMING CONNECTION
1 1/2" = 1'-0"



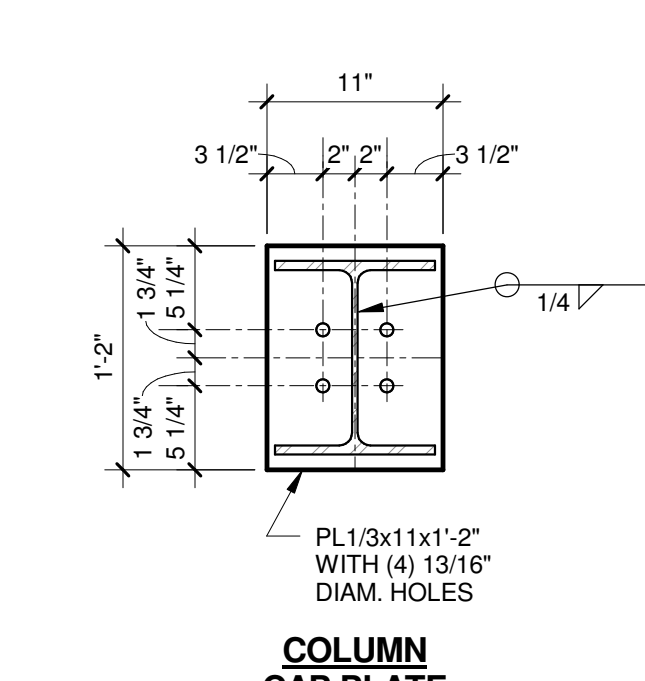
SECTION A-A



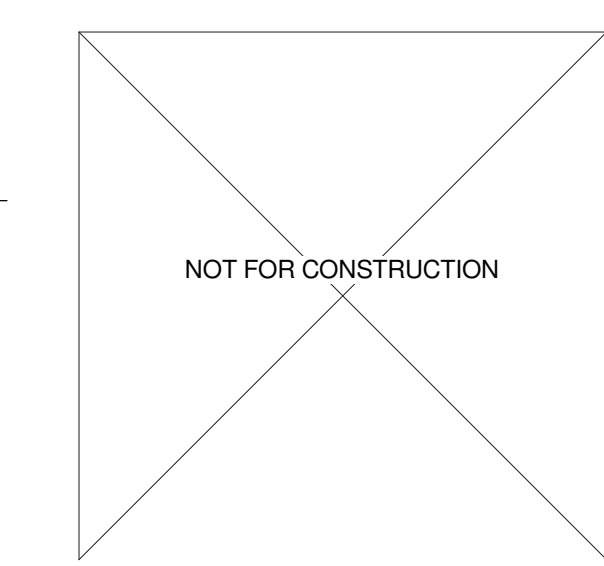
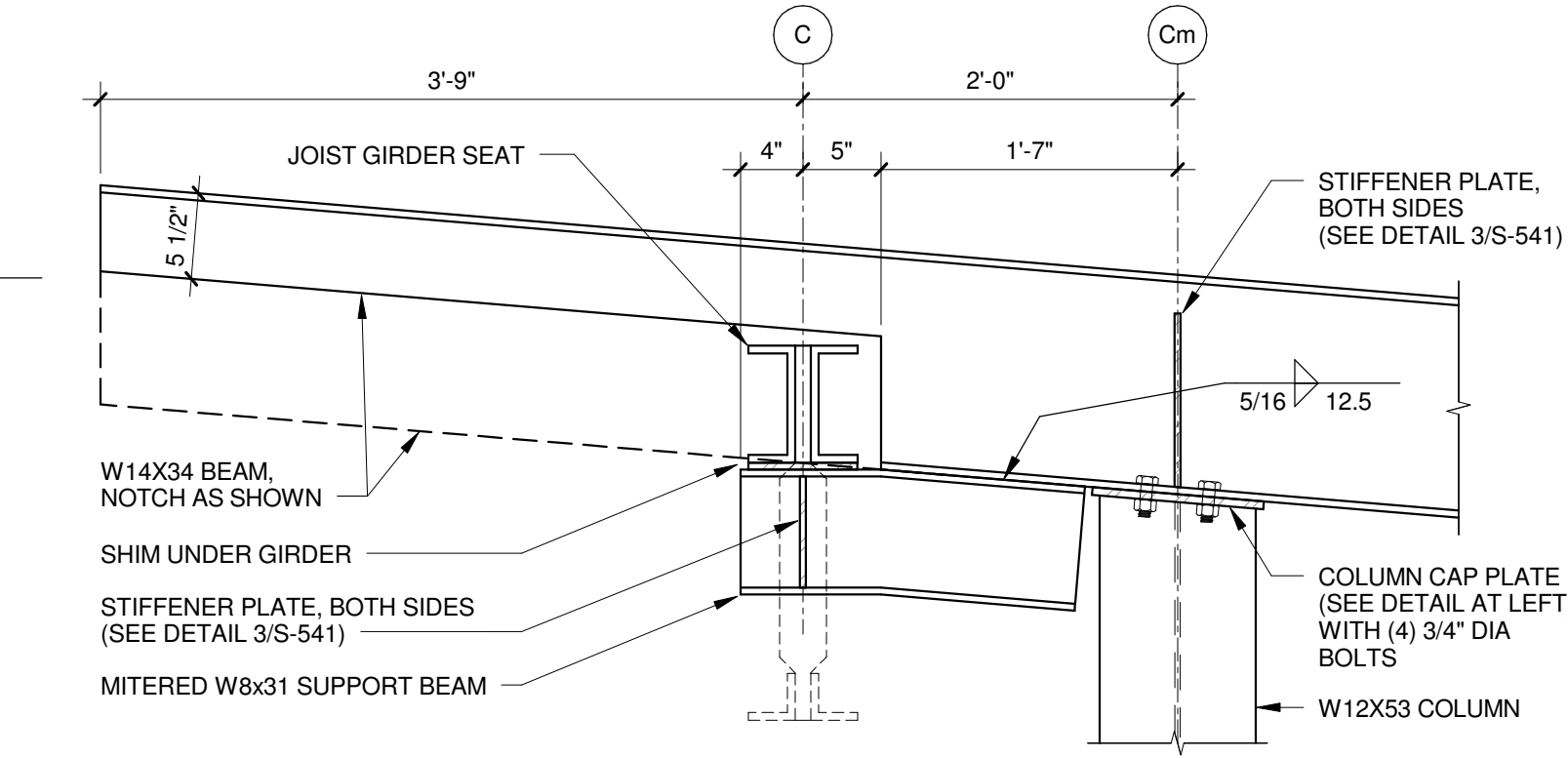
19 COLUMN TO DECK CONNECTION
1" = 1'-0"



14 JOIST SUBSTITUTE AT JOIST
1 1/2" = 1'-0"



5 CANTILEVERED ROOF BEAM
1" = 1'-0"



No.	REVISION/SUBMISSION	DATE
2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019

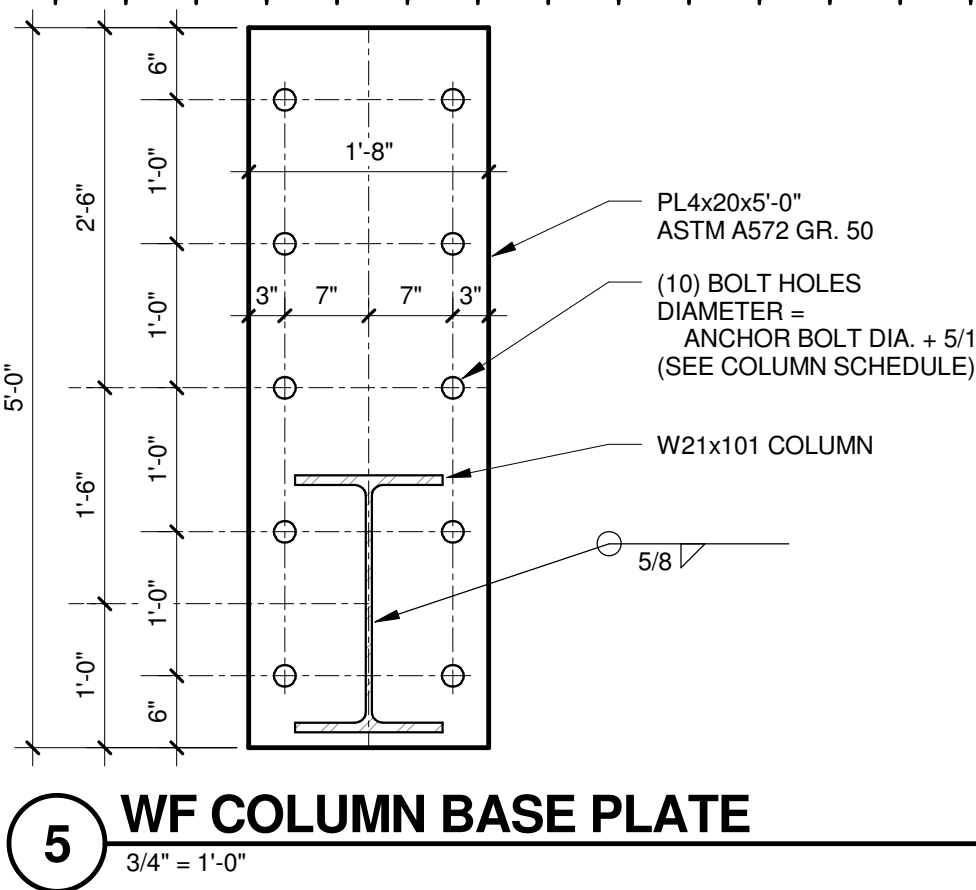
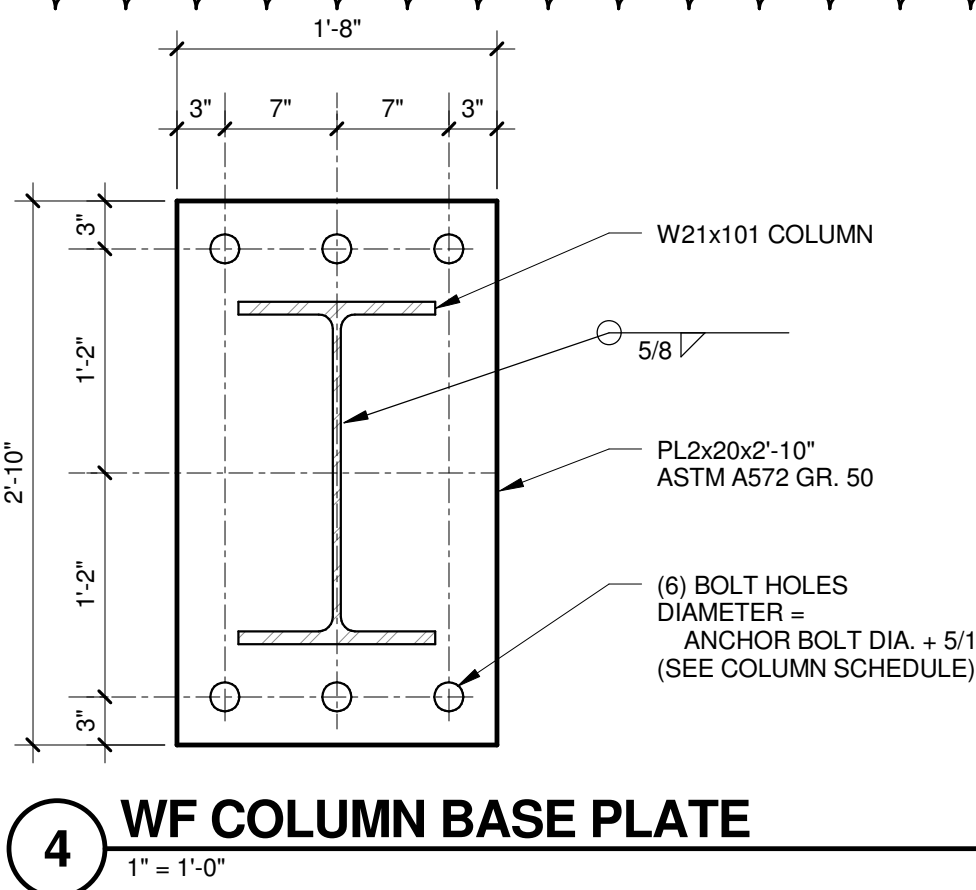
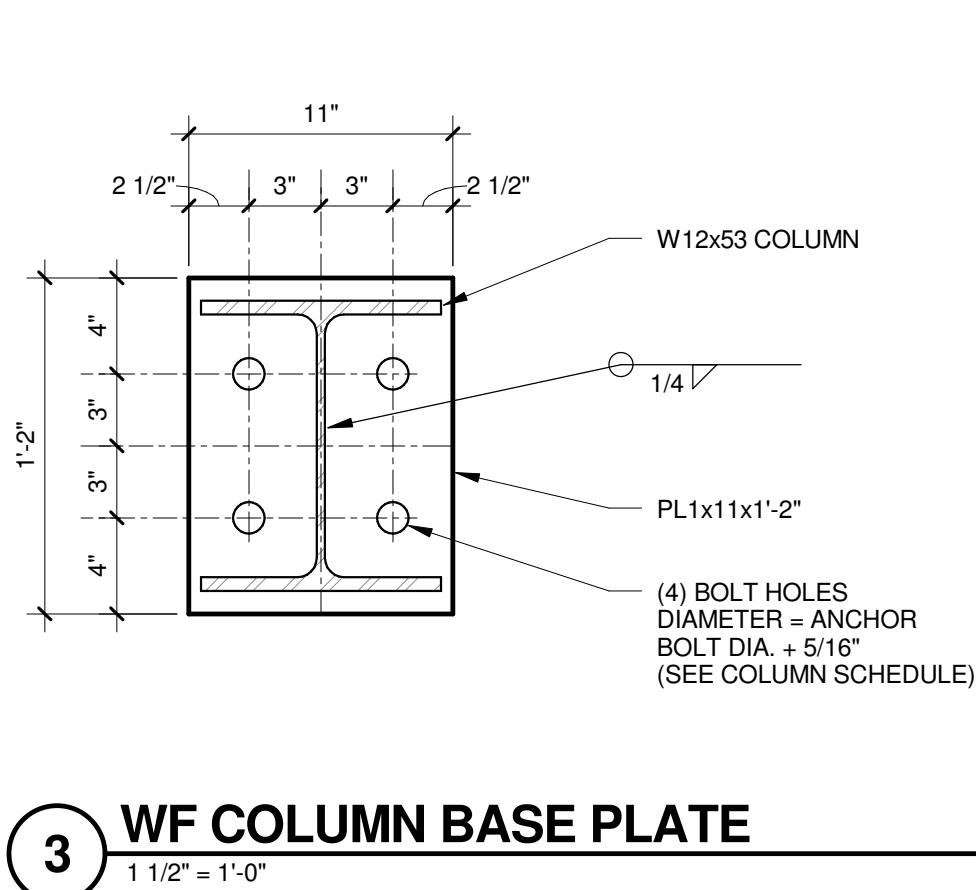
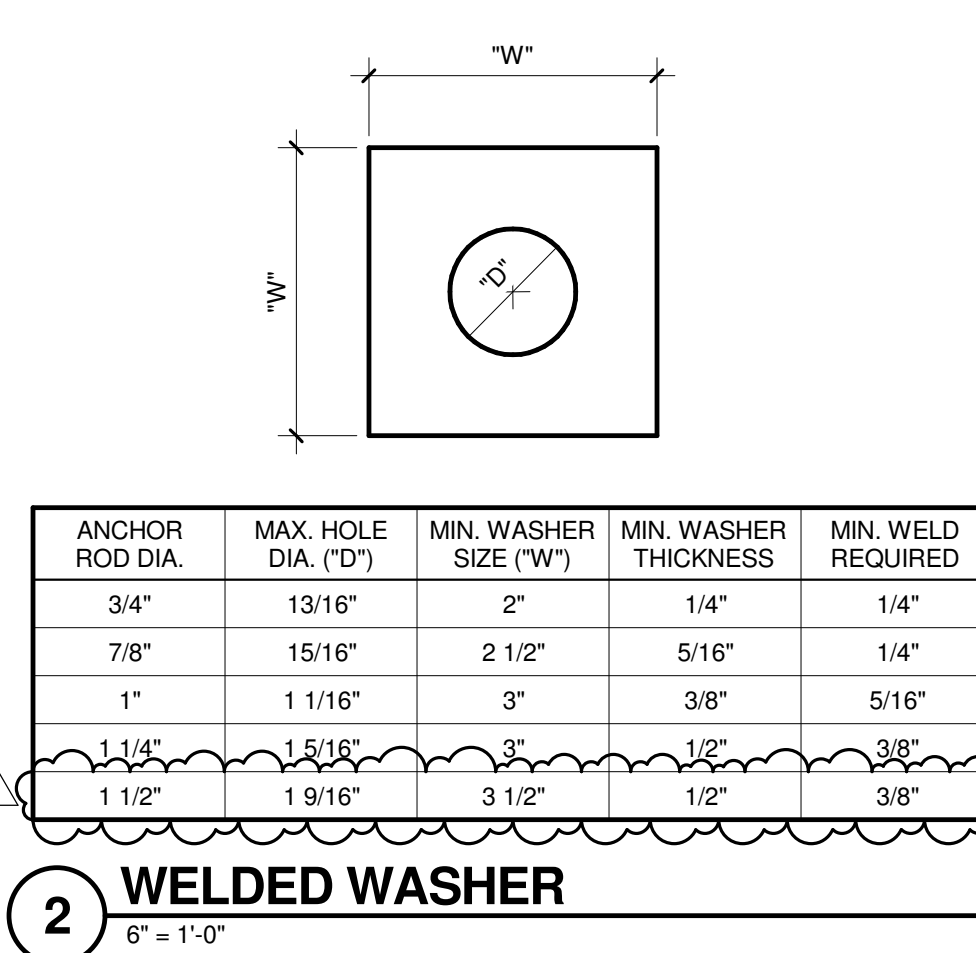
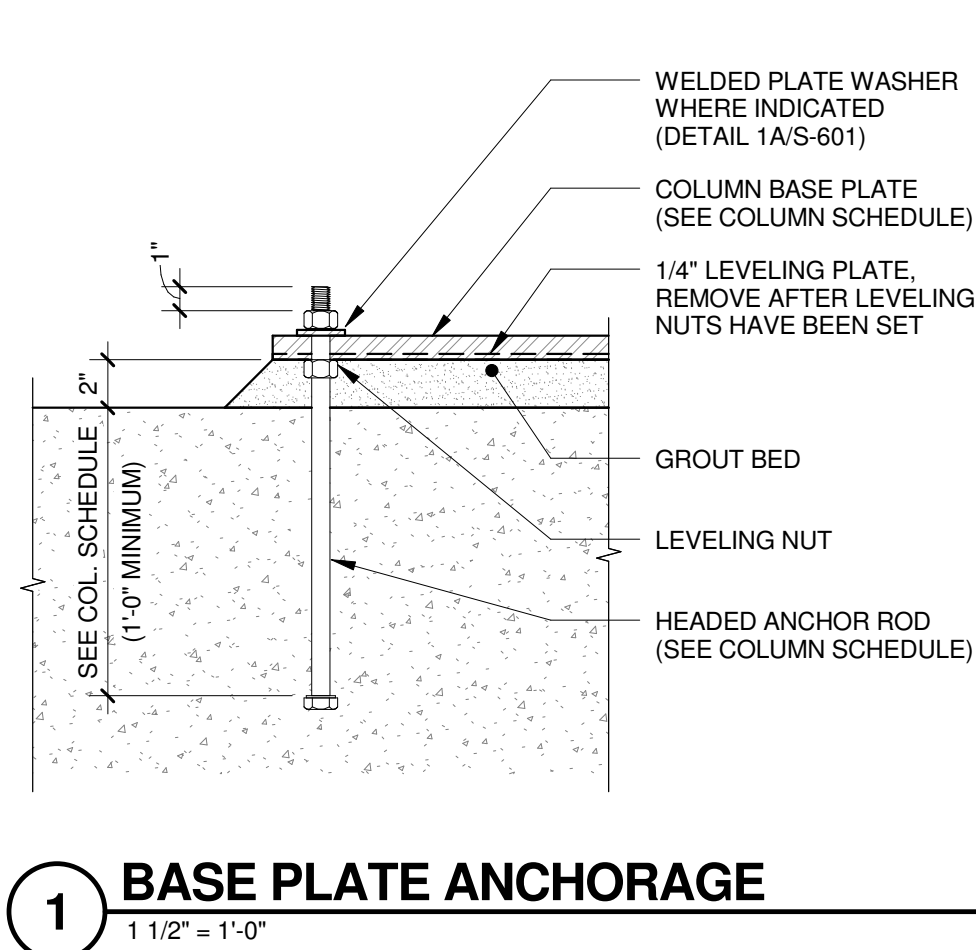
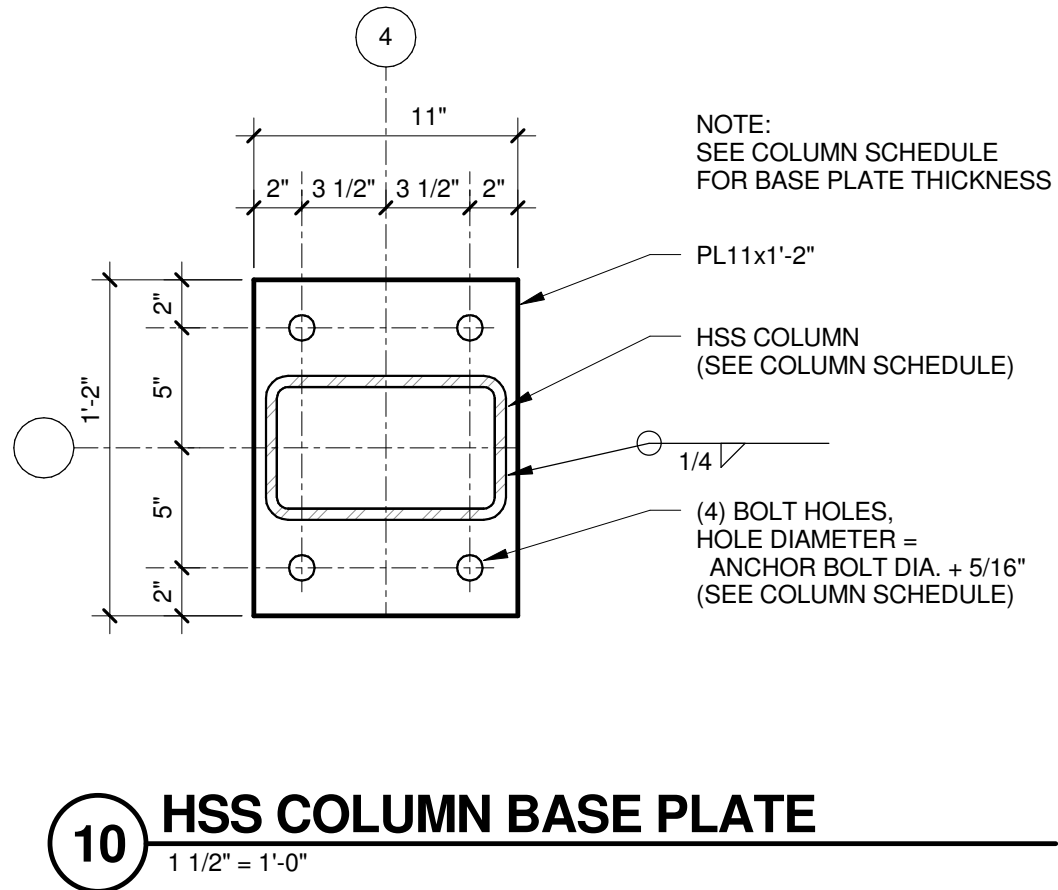
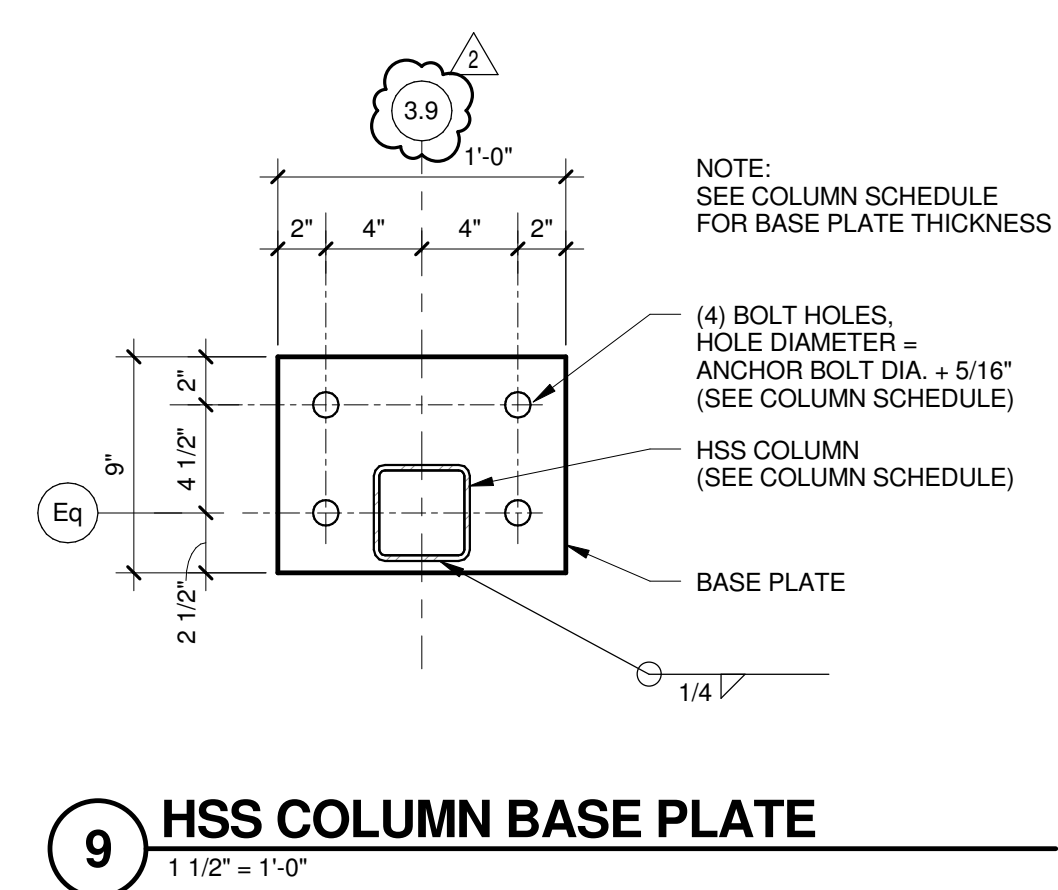
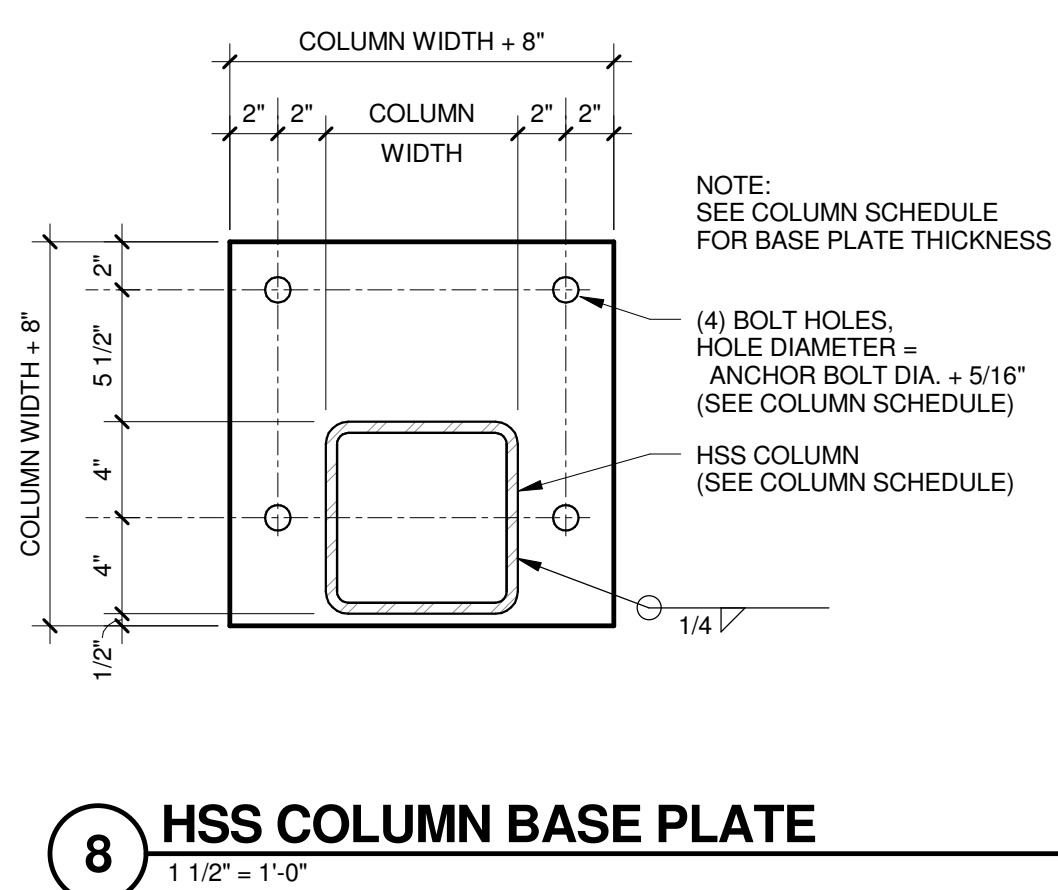
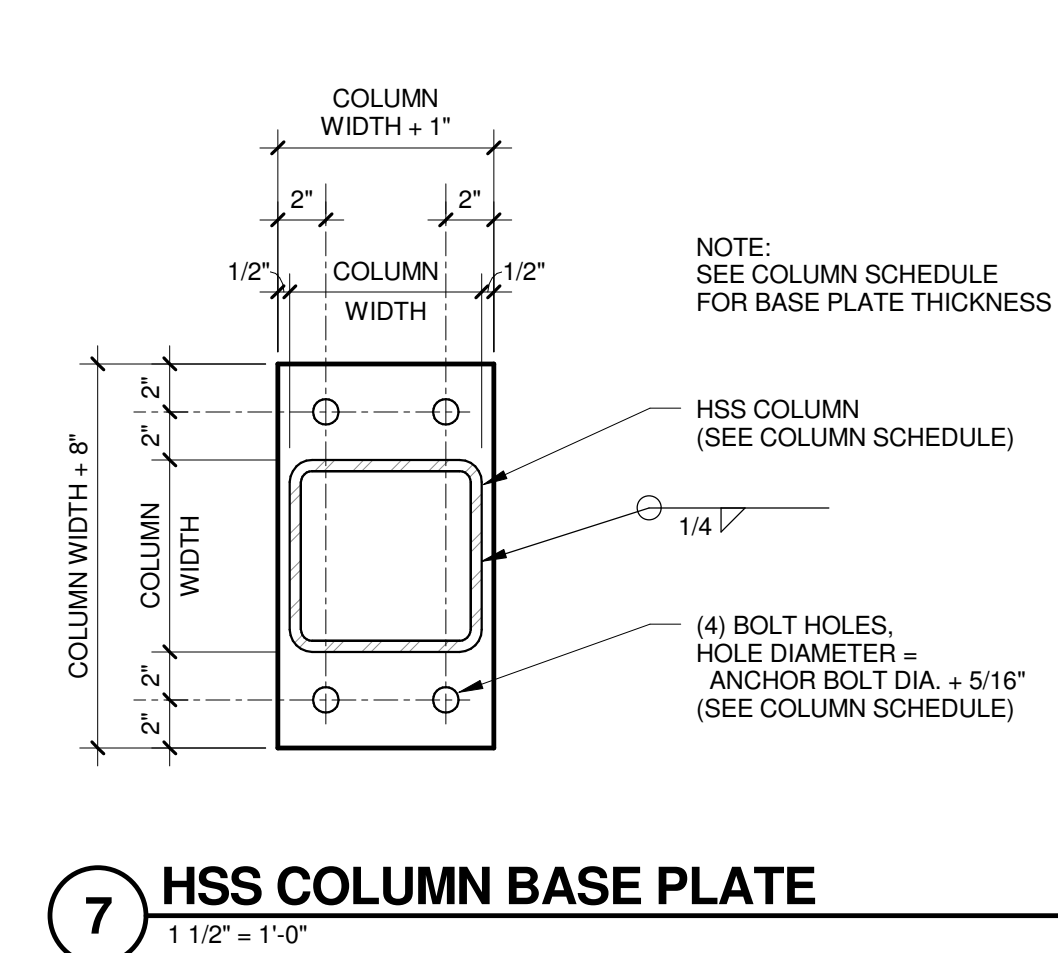
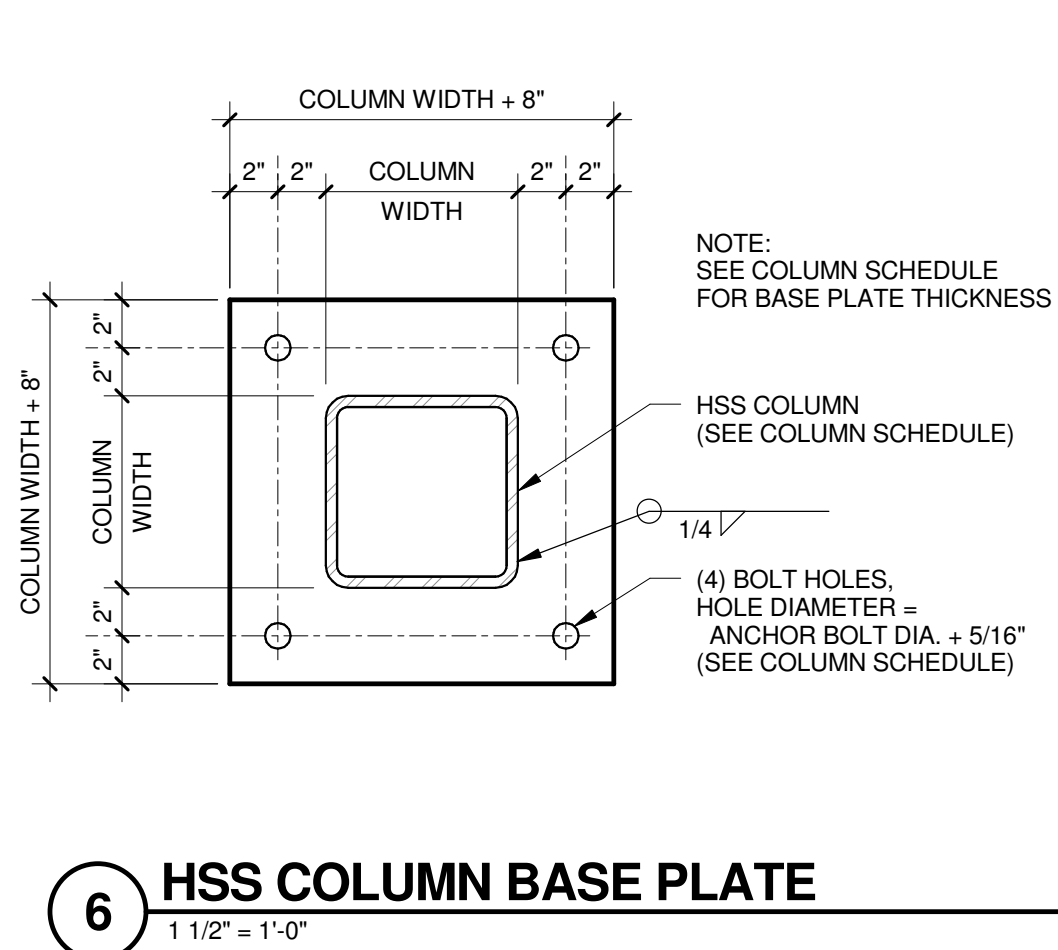
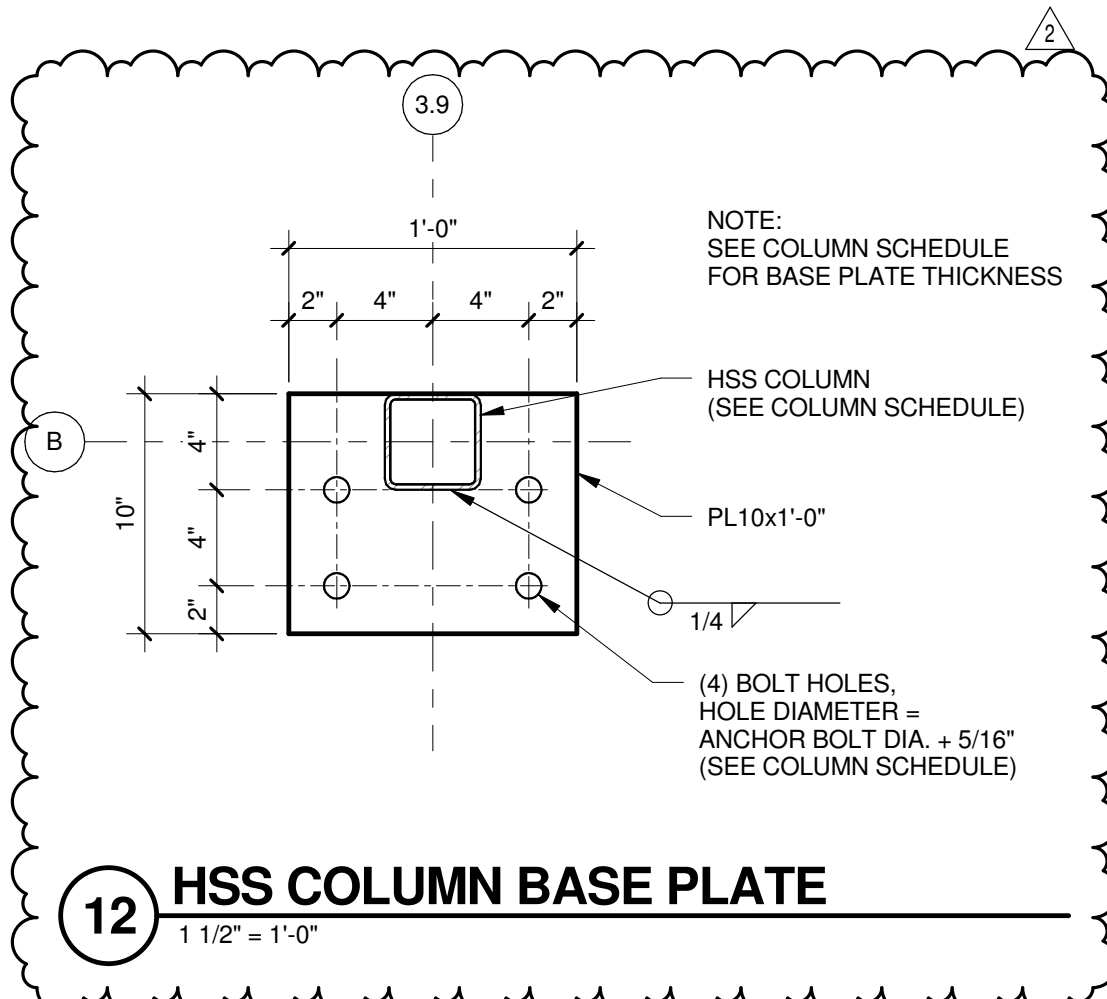
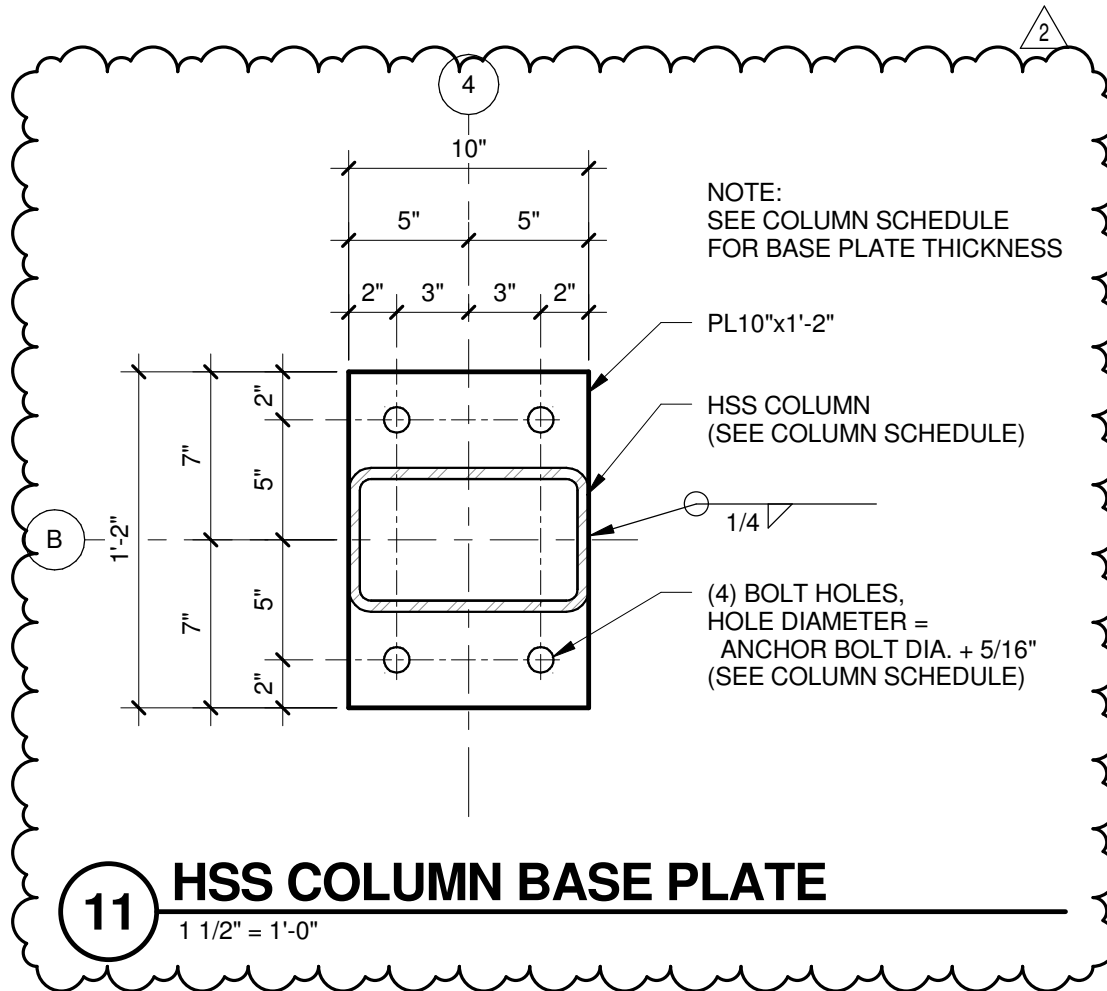
PROJECT No: 1303500-160264.01

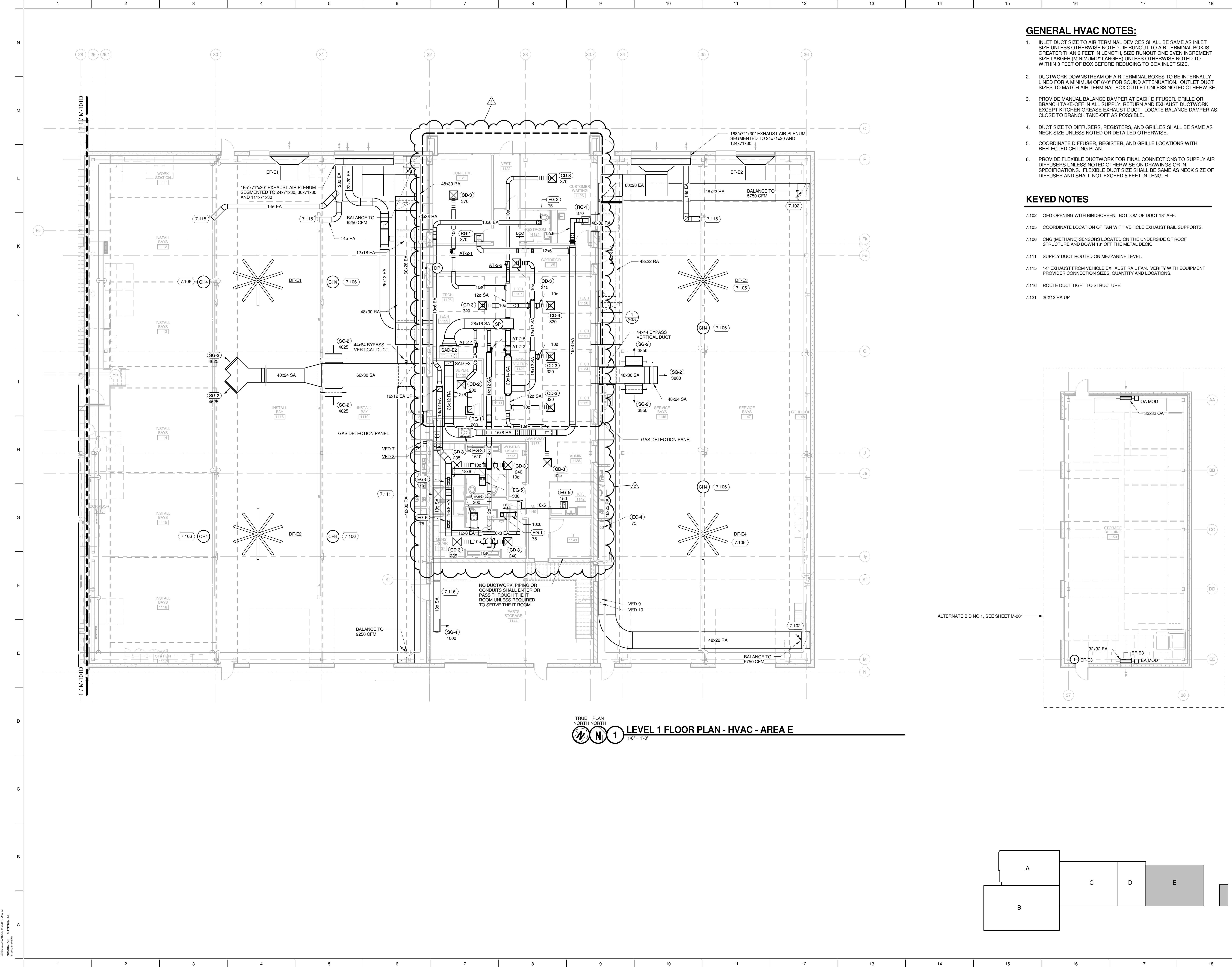
STRUCTURAL COLUMN SCHEDULE - AREA A					
COLUMN LOCATION	COLUMN SIZE	BASE PLATE DETAIL	THICKNESS	ANCHOR BOLTS SIZE / EMBEDMENT	REMARKS
Aa-2.5	HSS8X8X3/8	8/S-602	1"	(4) 1" DIA / 18" EMBED	
Aa-2.8	HSS8X8X3/8	8/S-602	1"	(4) 1" DIA / 18" EMBED	
A-4(0'-6")	HSS6X6X3/8	7/S-602			
A-6	HSS6X6X3/8	6/S-602			
A-8	HSS6X6X3/8	6/S-602			
A-11	HSS8X8X3/8	6/S-602			
A-12	HSS10X10X3/8	6/S-602			
A-13	HSS10X10X3/8	6/S-602			
A-14	HSS10X10X3/8	6/S-602			
A-15	HSS10X10X3/8	6/S-602			
A-16	HSS8X8X3/8	6/S-602			
B-3.9	HSS4X4X1/4	10/S-602			
B-4	HSS10X6X1/2	11/S-602			
B-6	HSS6X6X3/8	6/S-602			
B-8	HSS6X6X3/8	6/S-602			
Bd-2.5	HSS8X8X3/8	6/S-602			
Bd-2.8	HSS8X8X3/8	6/S-602			
Bp-15	HSS8X8X3/8	7/S-602			
Br-2.5	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
Br-2.8	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
D-3.9	HSS4X4X1/4	6/S-602			
D-4	HSS10X6X1/2	6/S-602			
D-6	HSS6X6X3/8	6/S-602			
D-8	HSS6X6X3/8	6/S-602			
D-11	HSS8X8X3/8	6/S-602			
D-12	HSS8X8X3/8	6/S-602			
D-13	HSS8X8X3/8	6/S-602			
D-14	HSS8X8X3/8	6/S-602			
D-15	HSS8X8X3/8	7/S-602			
D-16	HSS8X8X3/8	6/S-602			
Dh-2.5	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
Dh-2.8	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
Ep-15	HSS8X8X3/8	7/S-602			
Ep-16	HSS8X8X3/8	6/S-602			
Eq-3.9	HSS4X4X1/4	9/S-602			
Er-2.5	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
Er-2.8	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
F-4	HSS10X6X1/2	10/S-602			
F-6	HSS6X6X3/8	6/S-602			
F-8	HSS6X6X3/8	6/S-602			
Fg-2.5	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
Fg-2.8	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
Fh-11	HSS8X8X3/8	6/S-602			
Fh-11	HSS8X8X3/8	6/S-602			
Fh-12	HSS8X8X3/8	6/S-602			
Fh-13	HSS8X8X3/8	6/S-602			
Fh-14	HSS8X8X3/8	6/S-602			
Fh-15	HSS8X8X3/8	7/S-602			
Fh-16	HSS8X8X3/8	6/S-602			
Fg-2.5	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
Fg-2.8	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
H-4	HSS10X6X1/2	10/S-602			
H-6	HSS6X6X3/8	6/S-602			
H-8	HSS6X6X3/8	6/S-602			
H-11	HSS8X8X3/8	7/S-602			
H-12	HSS8X8X3/8				
H-13	HSS8X8X3/8	6/S-602			
H-14	HSS8X8X3/8				
H-15	HSS8X8X3/8	6/S-602			
H-16	HSS8X8X3/8	6/S-602			
Ha-2.5	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
Ha-2.8	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
Hu-2.5	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	
Hu-2.8	HSS8X8X3/8	6/S-602	1"	(4) 1" DIA / 18" EMBED	

STRUCTURAL COLUMN SCHEDULE - AREA B					
COLUMN LOCATION	COLUMN SIZE	BASE PLATE DETAIL	THICKNESS	ANCHOR BOLTS SIZE / EMBEDMENT	REMARKS
I-1	HSS8X8X3/8	6/S-602			
I-2	W21X101	4/S-602	4"	(10) 1 1/2" DIA / 24" EMBED	SEE REMARK 2
I-3	HSS8X8X3/8	7/S-602			
I-5	HSS8X8X3/8	6/S-602			
I-7	HSS8X8X3/8	7/S-602			
I-9	HSS8X8X3/8	6/S-602			
I-10	HSS8X8X3/8	6/S-602			
I-12	HSS8X8X3/8	6/S-602			
I-13	HSS8X8X3/8	6/S-602			
I-14	HSS8X8X3/8	6/S-602			
I-15	HSS8X8X3/8	7/S-602			
I-16	HSS8X8X3/8	6/S-602			
J-9	HSS8X8X3/8	7/S-602			
Ji-10	HSS8X8X3/8	7/S-602			
Ji-11.8	HSS8X8X3/8	7/S-602			
Ji-12.8	HSS8X8X3/8	7/S-602			
Ji-13.7	HSS8X8X3/8	7/S-602			
Ji-14.5	HSS8X8X3/8	7/S-602			
Ji-15	HSS8X8X3/8	7/S-602			
Jn-3	HSS8X8X3/8	6/S-602			
Jn-5	HSS8X8X3/8	6/S-602			
Jn-7	HSS8X8X3/8	6/S-602			
Jp-16	HSS8X8X3/8	6/S-602			
K-1	HSS8X8X3/8	6/S-602			
Ke-15	HSS8X8X3/8	7/S-602			
Km-16	HSS8X8X3/8	6/S-602			
L-1	HSS8X8X3/8	6/S-602			
L-2	W21X101	4/S-602	2"	(6) 1 1/2" DIA / 24" EMBED	SEE REMARK 2
L-3	HSS8X8X3/8	6/S-602			
L-5	HSS8X8X3/8	6/S-602			
L-7	HSS8X8X3/8	6/S-602			
L-9	HSS8X8X3/8	6/S-602			
L-10	HSS8X8X3/8	6/S-602			
L-12	HSS8X8X3/8	6/S-602			
L-13	HSS8X8X3/8	6/S-602			
L-14	HSS8X8X3/8	6/S-602			
L-15	HSS8X8X3/8	7/S-602			
L-16	HSS10X10X3/8	6/S-602			
Na-15	HSS8X8X3/8	7/S-602			
Na-16	HSS8X8X3/8	6/S-602			
O-1	HSS8X8X3/8	6/S-602			
P-1	HSS8X8X3/8	6/S-602			
P-2	W21X101	4/S-602	2"	(6) 1 1/2" DIA / 24" EMBED	SEE REMARK 2
P-3	HSS8X8X3/8	6/S-602			
P-5	HSS8X8X3/8	6/S-602			
P-7	HSS8X8X3/8	6/S-602			
P-9	HSS8X8X3/8	6/S-602			
P-10	HSS8X8X3/8	6/S-602			
P-12	HSS8X8X3/8	6/S-602			
P-13	HSS8X8X3/8	6/S-602			
P-14	HSS8X8X3/8	6/S-602			
P-15	16"x16"				SEE REMARK 1
P-16	HSS8X8X3/8	6/S-602			SEE REMARK 1
P-16	HSS10X10X3/8	6/S-602			
Q-1	HSS8X8X3/8	6/S-602			
R-1	HSS8X8X3/8	6/S-602			
R-2	W21X101	4/S-602	4"	(10) 1 1/2" DIA / 24" EMBED	SEE REMARK 2
R-3	HSS8X8X3/8	6/S-602			
R-5	HSS8X8X3/8	6/S-602			
R-7	HSS8X8X3/8	6/S-602			
R-9	HSS8X8X3/8	6/S-602			
R-10	HSS8X8X3/8	6/S-602			
R-12	HSS8X8X3/8	6/S-602			
R-13	HSS8X8X3/8	6/S-602			
R-14	HSS8X8X3/8	6/S-602			
R-15	16"x16"				SEE REMARK 1
R-15	HSS8X8X3/8	7/S-602			
R-16	16"x16"				SEE REMARK 1
R-16	HSS8X8X3/8	6/S-602			

STRUCTURAL COLUMN SCHEDULE - AREAS C AND D					
COLUMN LOCATION	COLUMN SIZE	BASE PLATE DETAIL	THICKNESS	ANCHOR BOLTS SIZE / EMBEDMENT	REMARKS
C-17	HSS8X8X3/8	6/S-602			
C-18	W21X101	4/S-602	4"	(10) 1 1/2" DIA / 24" EMBED	SEE REMARK 2
C-19	W12X53	3/S-602			
C-20	W12X53	3/S-602			
C-21	W12X53	3/S-602			
C-22	W12X53	3/S-602			
C-23	W12X53	3/S-602			
C-24	W12X53	3/S-602			
C-25	W12X53	3/S-602			
C-26	W12X53	3/S-602			
C-28	HSS8X8X3/8	6/S-602			
Cm-27	W12X53	3/S-602			
Ep-17	HSS8X8X3/8	6/S-602			
Ez-28	HSS8X8X3/8	6/S-602			
Fc-26	W12X53	3/S-602			
Fc-27	W12X53	3/S-602			
Fh-17	HSS8X8X3/8	6/S-602			
G-17	HSS8X8X3/8	6/S-602			
G-18	W21X101	4/S-602	2"	(6) 1 1/2" DIA / 24" EMBED	SEE REMARK 2
G-19	W12X53	3/S-602			
G-20	W12X53	3/S-602			
G-21	W12X53	3/S-602			
G-22	W12X53	3/S-602			
G-23	W12X53	3/S-602			
G-24	W12X53	3/S-602			
G-25	W12X53	3/S-602			
Gy-26	W12X53	3/S-602			
Gy-27	W12X53	3/S-602			
Hb-28	HSS8X8X3/8	6/S-602			
I-26	HSS8X8X3/8	7/S-602			
I-27	HSS8X8X3/8	7/S-602			
J-17	HSS8X8X3/8	6/S-602			
J-18	W21X101	4/S-602	2"	(6) 1 1/2" DIA / 24" EMBED	SEE REMARK 2
J-19	HSS8X8X3/8	6/S-602			
J-20	HSS8X8X3/8	6/S-602			
J-21	HSS8X8X3/8	6/S-602			
J-22	HSS8X8X3/8	6/S-602			
J-23	HSS8X8X3/8	6/S-602			
J-24	HSS8X8X3/8	6/S-602			
J-25	HSS8X8X3/8	6/S-602			
J-28	HSS8X8X3/8	6/S-602			
Jp-17	HSS8X8X3/8	6/S-602			
Km-17	HSS8X8X3/8	6/S-602			
N-17	HSS8X8X3/8	6/S-602			
N-18	W21X101	4/S-602	4"	(10) 1 1/2" DIA / 24" EMBED	SEE REMARK 2
N-19	HSS8X8X3/8	6/S-602			
N-20	HSS8X8X3/8	6/S-602			
N-21	HSS8X8X3/8	6/S-602			
N-22	HSS8X8X3/8	6/S-602			
N-23	HSS8X8X3/8	6/S-602			
N-24	HSS8X8X3/8	6/S-602			
N-25	HSS8X8X3/8	6/S-602			
N-26	HSS8X8X3/8	6/S-602			
N-27	HSS8X8X3/8	6/S-602			
N-28	HSS8X8X3/8	6/S-602			

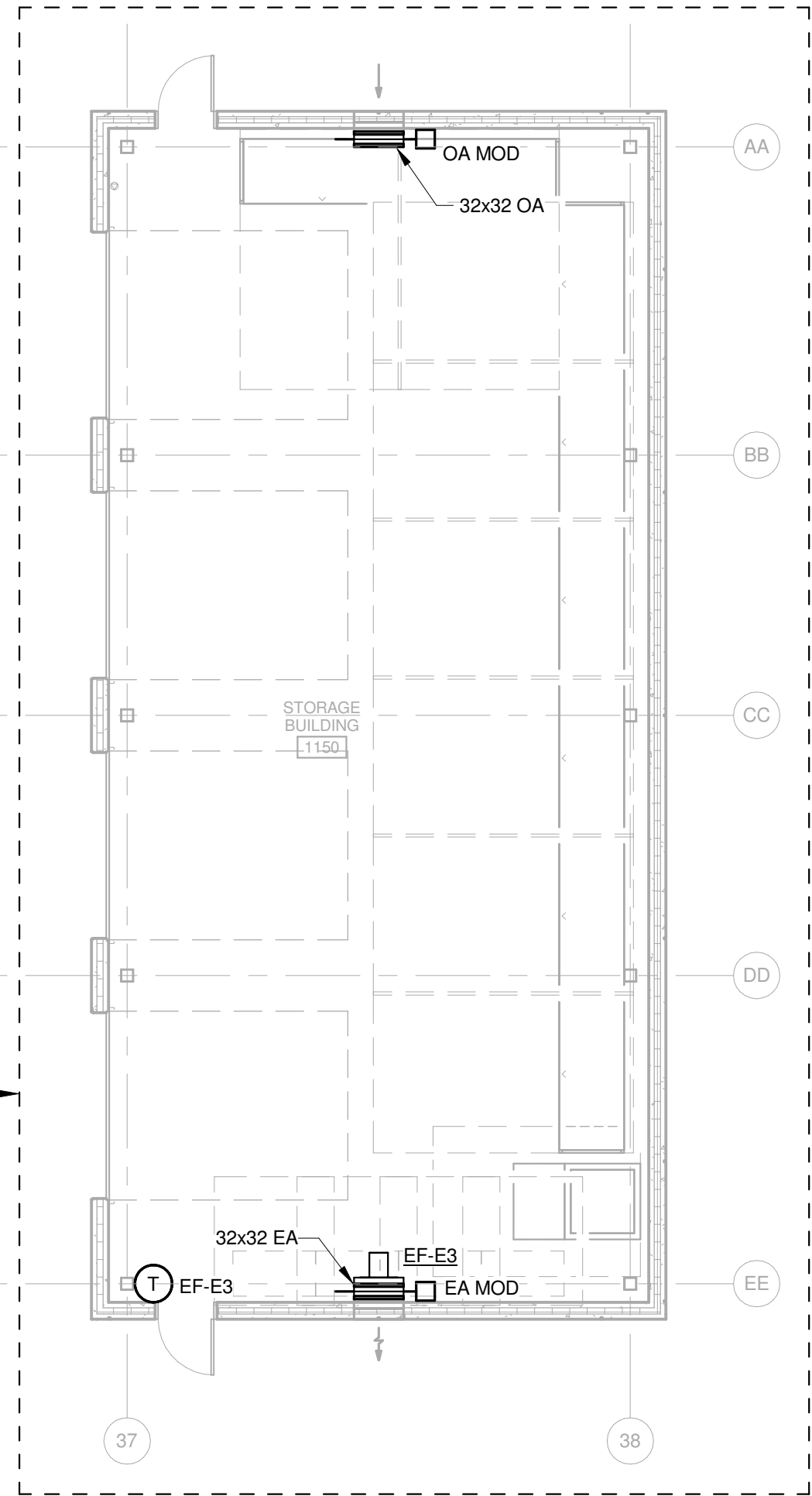
STRUCTURAL COLUMN SCHEDULE - AREA E					
COLUMN LOCATION	COLUMN SIZE	BASE PLATE		ANCHOR BOLTS SIZE / EMBEDMENT	REMARKS
		DETAIL	THICKNESS		
AA-37	HSS6X8X3/8	6/S-602			
AA-38	HSS6X8X3/8	6/S-602			
BB-37	HSS8X8X3/8	6/S-602			
BB-38	HSS8X8X3/8	6/S-602			
CC-37	HSS8X8X3/8	6/S-602			
CC-38	HSS6X8X3/8	6/S-602			
Cn-32	HSS6X6X3/16	6/S-602			
Cn-33.8	HSS6X6X3/16	7/S-602			
DD-37	HSS8X8X3/8	6/S-602			
DD-38	HSS8X8X3/8	6/S-602			
E-29	HSS8X8X3/8	6/S-602			
E-30	HSS10X10X3/8	6/S-602			
E-31	HSS10X10X3/8	6/S-602			
E-32	HSS10X10X3/8	6/S-602			
E-33	HSS10X10X3/8	6/S-602			
E-34	HSS10X10X3/8	6/S-602			
E-35	HSS10X10X3/8	6/S-602			
E-36	HSS8X8X3/8	6/S-602			
EE-37	HSS8X8X3/8	6/S-602			
EE-38	HSS8X8X3/8	6/S-602			
Fb-32	HSS8X8X3/8	6/S-602			
Fb-33	HSS8X8X3/8	6/S-602			
Fb-33.7	HSS8X8X3/8	7/S-602			
Fe-36	HSS10X10X3/8	6/S-602			
Fk-30	HSS8X8X3/8	6/S-602			
G-29.1	HSS8X8X3/8	6/S-602			
G-31	HSS8X8X3/8	6/S-602			
G-32	HSS8X8X3/8	6/S-602			
G-33	HSS8X8X3/8	6/S-602			
G-33.7	HSS8X8X3/8	7/S-602			
G-34	HSS8X8X3/8	6/S-602			
G-35	HSS8X8X3/8	6/S-602			
G-36	HSS8X8X3/12	6/S-602			
J-29	HSS8X8X3/8	6/S-602			
J-31	HSS8X8X3/8	6/S-602			
J-32	HSS8X8X3/8	6/S-602			
J-33	HSS8X8X3/8	6/S-602			
J-33.7	HSS8X8X3/8	7/S-602			
J-34	HSS8X8X3/8	6/S-602			
J-35	HSS8X8X3/8	6/S-602			
J-36	HSS8X8X3/8	6/S-602			
Je-30	HSS8X8X3/8	6/S-602			
Jy-33.7	HSS8X8X3/8	7/S-602			
Jy-36	HSS8X8X3/8	6/S-602			
Kl-32	HSS8X8X3/8	6/S-602			
Kl-33	HSS8X8X3/8	6/S-602			
M-29	HSS8X8X3/8	6/S-602			
M-30	HSS8X8X3/8	6/S-602			
M-31	HSS8X8X3/8	6/S-602			
M-32	HSS8X8X3/8	6/S-602			
M-33	HSS8X8X3/8	6/S-602			
M-34	HSS8X8X3/8	6/S-602			
M-35	HSS8X8X3/8	6/S-602			
M-36	HSS8X8X3/8	6/S-602			





- GENERAL HVAC NOTES:**
1. INLET DUCT SIZE TO AIR TERMINAL DEVICES SHALL BE SAME AS INLET SIZE UNLESS OTHERWISE NOTED. IF RUNOUT TO AIR TERMINAL BOX IS GREATER THAN 8 FEET IN LENGTH, SIZE RUNOUT ONE EVEN INCREMENT SIZE LARGER (MINIMUM 2" LARGER) UNLESS OTHERWISE NOTED TO WITHIN 3 FEET OF BOX BEFORE REDUCING TO BOX INLET SIZE.
 2. DUCTWORK DOWNSTREAM OF AIR TERMINAL BOXES TO BE INTERNALLY LINED FOR A MINIMUM OF 6' 0" FOR SOUND ATTENUATION. OUTLET DUCT SIZES TO MATCH AIR TERMINAL BOX OUTLET UNLESS NOTED OTHERWISE.
 3. PROVIDE MANUAL BALANCE DAMPER AT EACH DIFFUSER, GRILLE OR BRANCH TAKE-OFF IN ALL SUPPLY, RETURN AND EXHAUST DUCTWORK EXCEPT KITCHEN GREASE EXHAUST DUCT. LOCATE BALANCE DAMPER AS CLOSE TO BRANCH TAKE-OFF AS POSSIBLE.
 4. DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS NECK SIZE UNLESS NOTED OR DETAILED OTHERWISE.
 5. COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN.
 6. PROVIDE FLEXIBLE DUCTWORK FOR FINAL CONNECTIONS TO SUPPLY AIR DIFFUSERS UNLESS NOTED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS. FLEXIBLE DUCT SIZE SHALL BE SAME AS NECK SIZE OF DIFFUSER AND SHALL NOT EXCEED 5 FEET IN LENGTH.

- KEYED NOTES**
- 7.102 OED OPENING WITH BIRDSCREEN. BOTTOM OF DUCT 18" AFF.
 - 7.105 COORDINATE LOCATION OF FAN WITH VEHICLE EXHAUST RAIL SUPPORTS.
 - 7.106 CNG (METHANE) SENSORS LOCATED ON THE UNDERSIDE OF ROOF STRUCTURE AND DOWN 18" OFF THE METAL DECK.
 - 7.111 SUPPLY DUCT ROUTED ON MEZZANINE LEVEL.
 - 7.115 14" EXHAUST FROM VEHICLE EXHAUST RAIL FAN. VERIFY WITH EQUIPMENT PROVIDER CONNECTION SIZES, QUANTITY AND LOCATIONS.
 - 7.116 ROUTE DUCT TIGHT TO STRUCTURE.
 - 7.121 26X12 RA UP



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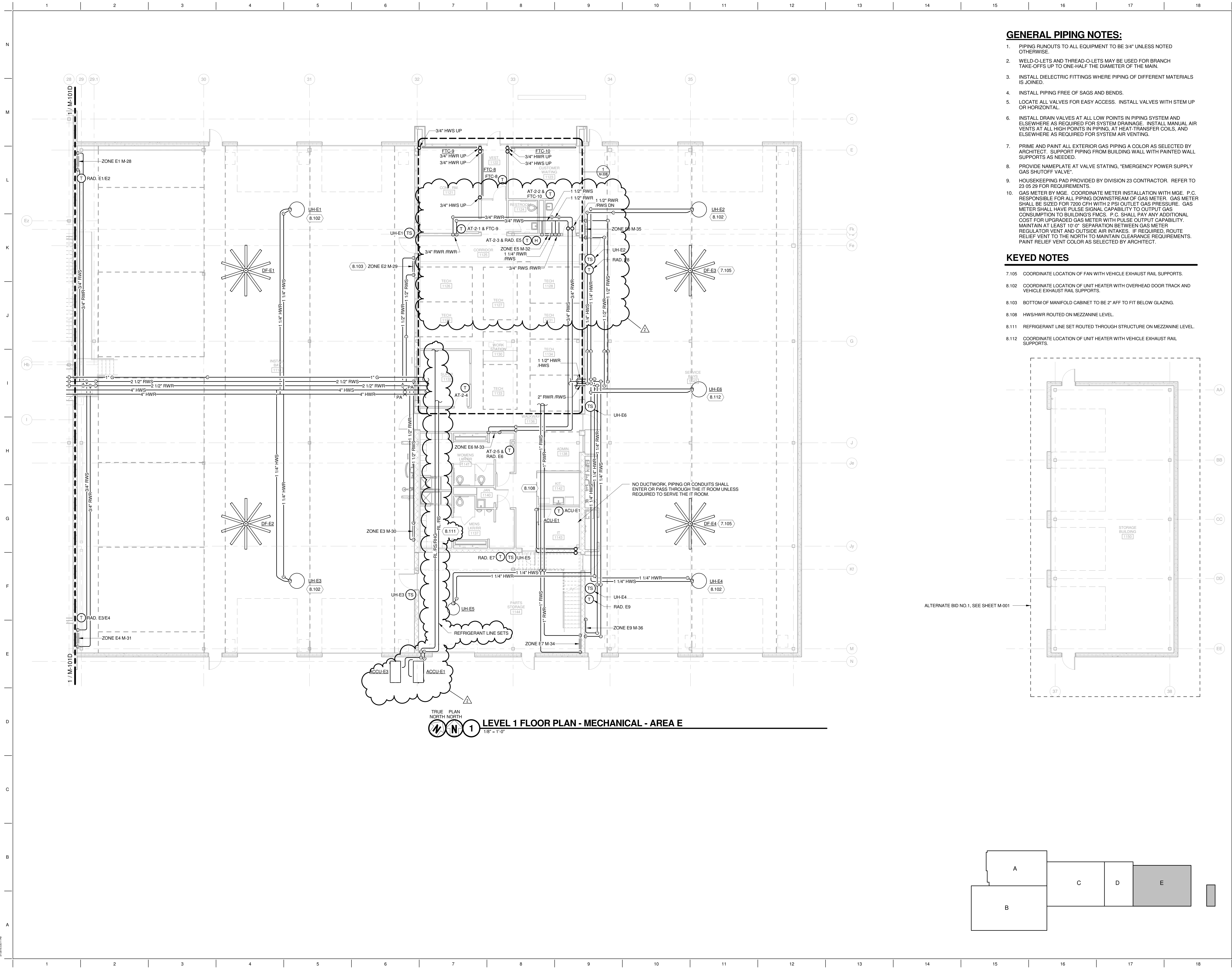
ISSUE FOR BID

REVISION	SUBMISSION	DATE
2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019

PROJECT No: 1303500-160264.01

LEVEL 1 FLOOR PLAN - HVAC - AREA E

M-101E

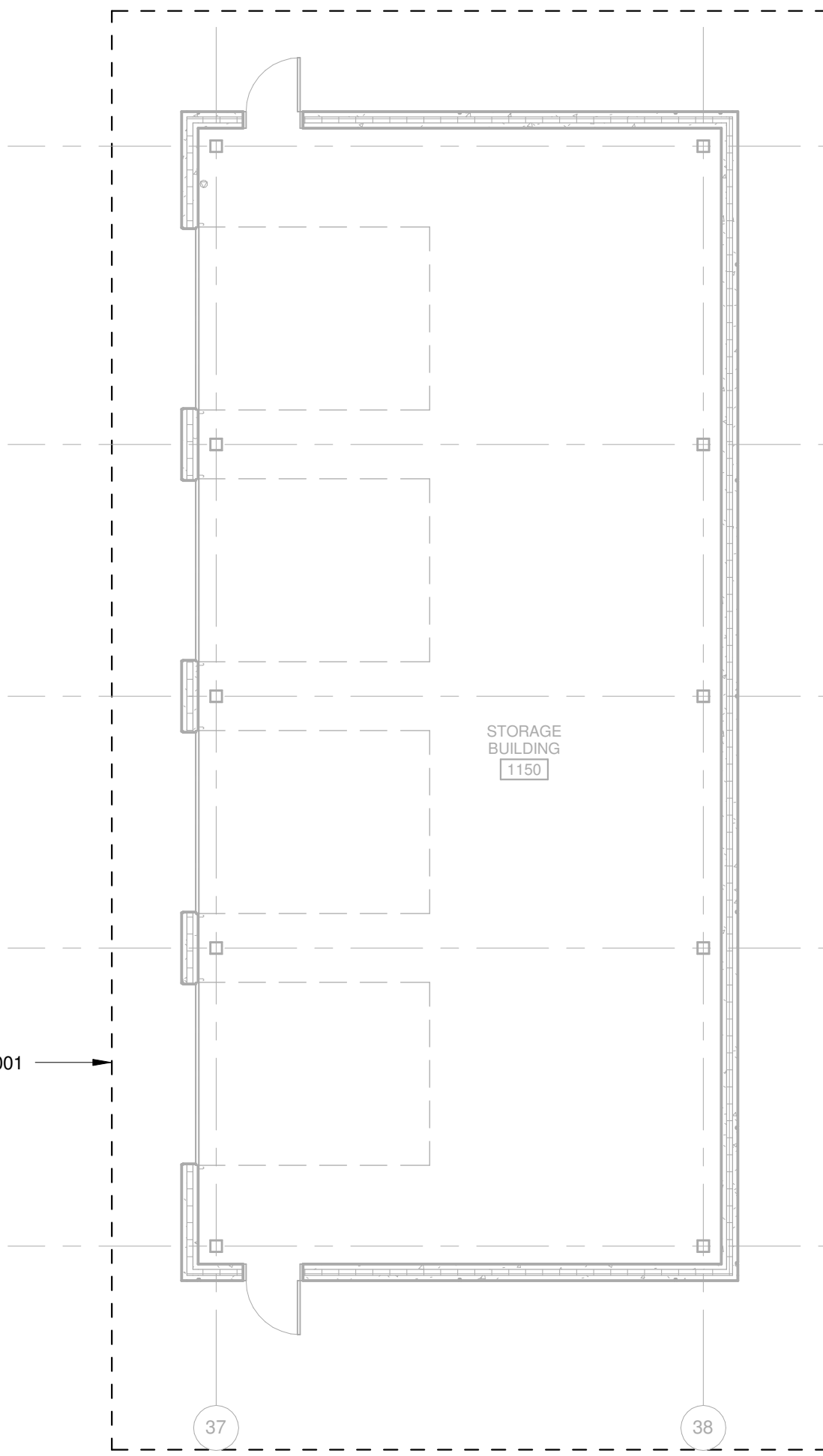


GENERAL PIPING NOTES:

1. PIPING RUNOUTS TO ALL EQUIPMENT TO BE 3/4" UNLESS NOTED OTHERWISE.
2. WELD-O-LETS AND THREAD-O-LETS MAY BE USED FOR BRANCH TAKE-OFFS UP TO ONE-HALF THE DIAMETER OF THE MAIN.
3. INSTALL DIELECTRIC FITTINGS WHERE PIPING OF DIFFERENT MATERIALS IS JOINED.
4. INSTALL PIPING FREE OF SAGS AND BENDS.
5. LOCATE ALL VALVES FOR EASY ACCESS. INSTALL VALVES WITH STEM UP OR HORIZONTAL.
6. INSTALL DRAIN VALVES AT ALL LOW POINTS IN PIPING SYSTEM AND ELSEWHERE AS REQUIRED FOR SYSTEM DRAINAGE. INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS IN PIPING, AT HEAT-TRANSFER COILS, AND ELSEWHERE AS REQUIRED FOR SYSTEM AIR VENTING.
7. PRIME AND PAINT ALL EXTERIOR GAS PIPING A COLOR AS SELECTED BY ARCHITECT. SUPPORT PIPING FROM BUILDING WALL WITH PAINTED WALL SUPPORTS AS NEEDED.
8. PROVIDE NAMEPLATE AT VALVE STATING, "EMERGENCY POWER SUPPLY GAS SHUTOFF VALVE".
9. HOUSEKEEPING PAD PROVIDED BY DIVISION 23 CONTRACTOR. REFER TO 23 05 29 FOR REQUIREMENTS.
10. GAS METER BY MGE. COORDINATE METER INSTALLATION WITH MGE. P.C. RESPONSIBLE FOR ALL PIPING DOWNSTREAM OF GAS METER. GAS METER SHALL BE SIZED FOR 7200 CFH WITH 2 PSI OUTLET GAS PRESSURE. GAS METER SHALL HAVE PULSE SIGNAL CAPABILITY TO OUTPUT GAS CONSUMPTION TO BUILDING'S FMOS. P.C. SHALL PAY ANY ADDITIONAL COST FOR UPGRADED GAS METER WITH PULSE OUTPUT CAPABILITY. MAINTAIN AT LEAST 10'-0" SEPARATION BETWEEN GAS METER REGULATOR VENT AND OUTSIDE AIR INTAKES. IF REQUIRED, ROUTE RELIEF VENT TO THE NORTH TO MAINTAIN CLEARANCE REQUIREMENTS. PAINT RELIEF VENT COLOR AS SELECTED BY ARCHITECT.

KEYED NOTES

- 7.105 COORDINATE LOCATION OF FAN WITH VEHICLE EXHAUST RAIL SUPPORTS.
- 8.102 COORDINATE LOCATION OF UNIT HEATER WITH OVERHEAD DOOR TRACK AND VEHICLE EXHAUST RAIL SUPPORTS.
- 8.103 BOTTOM OF MANIFOLD CABINET TO BE 2" AFF TO FIT BELOW GLAZING.
- 8.108 HWS/HWR ROUTED ON MEZZANINE LEVEL.
- 8.111 REFRIGERANT LINE SET ROUTED THROUGH STRUCTURE ON MEZZANINE LEVEL.
- 8.112 COORDINATE LOCATION OF UNIT HEATER WITH VEHICLE EXHAUST RAIL SUPPORTS.



ALTERNATE BID NO.1, SEE SHEET M-001

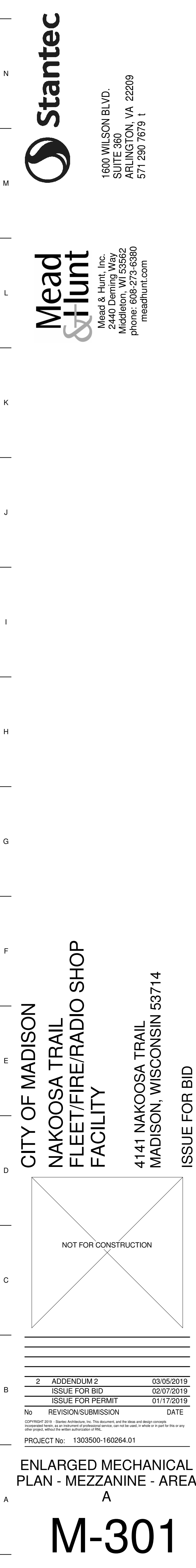
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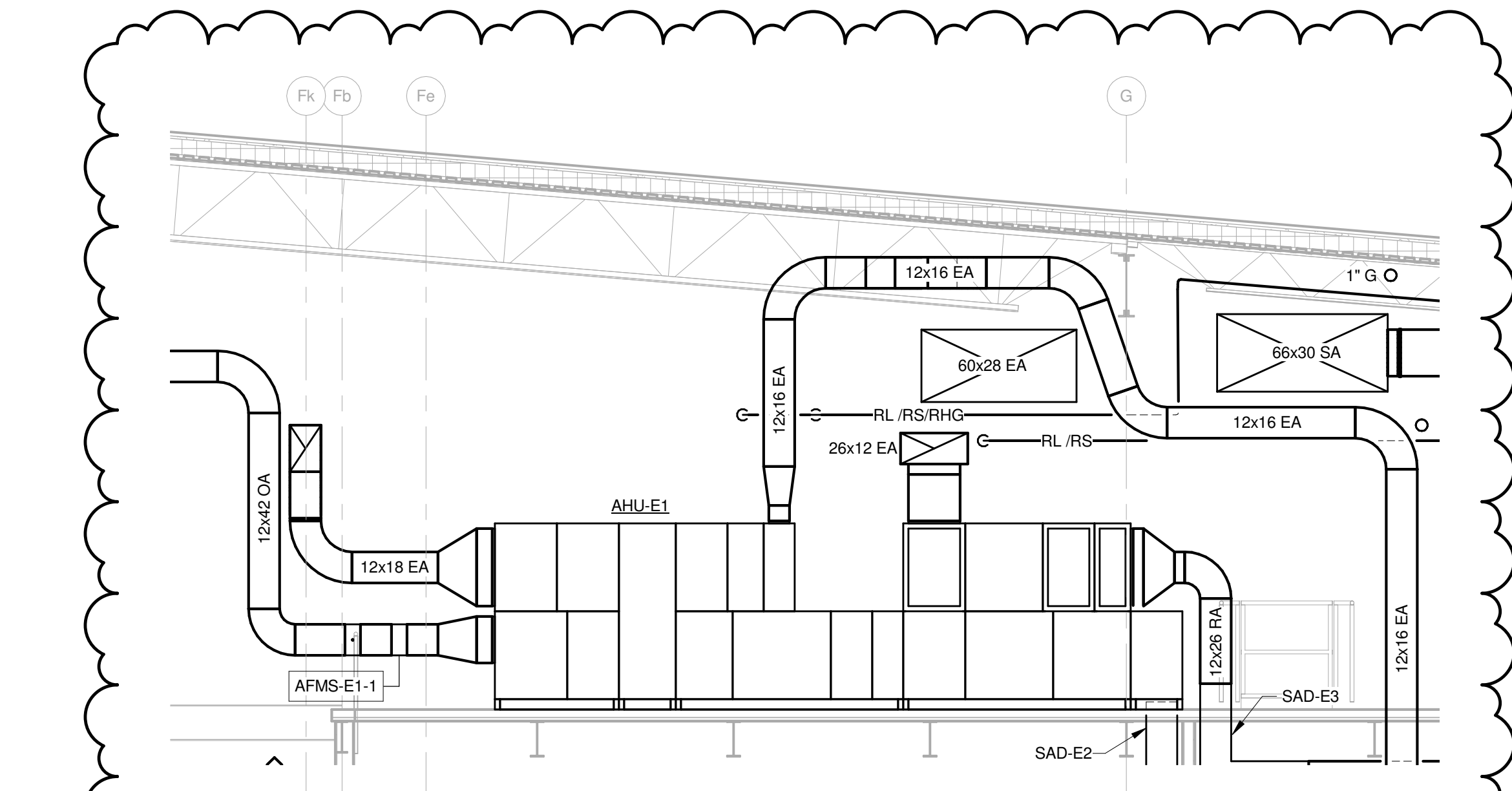
REVISION	SUBMISSION	DATE
2	ADDENDUM 2	03/05/2019
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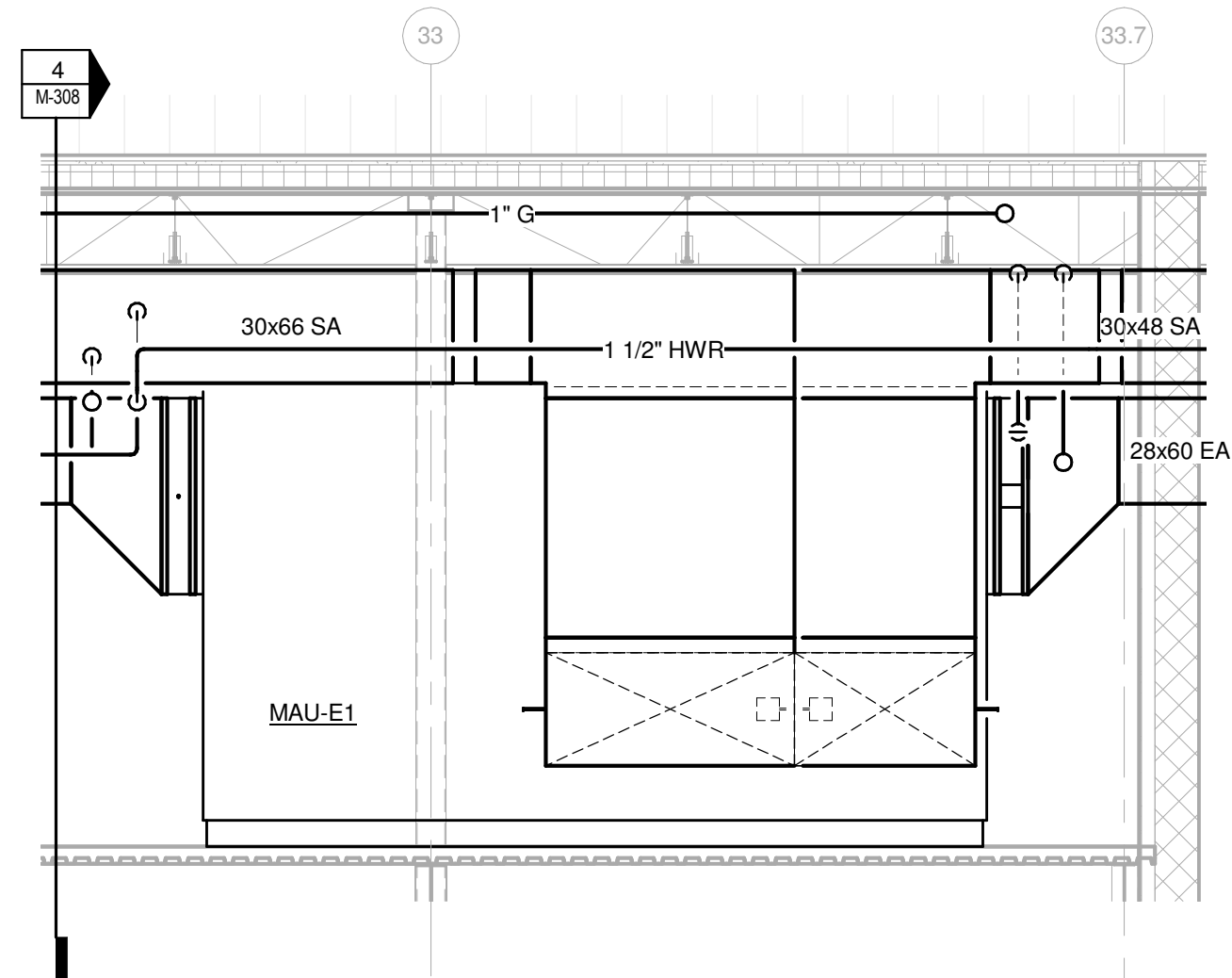
LEVEL 1 FLOOR PLAN -
PIPING - AREA E

M-131E

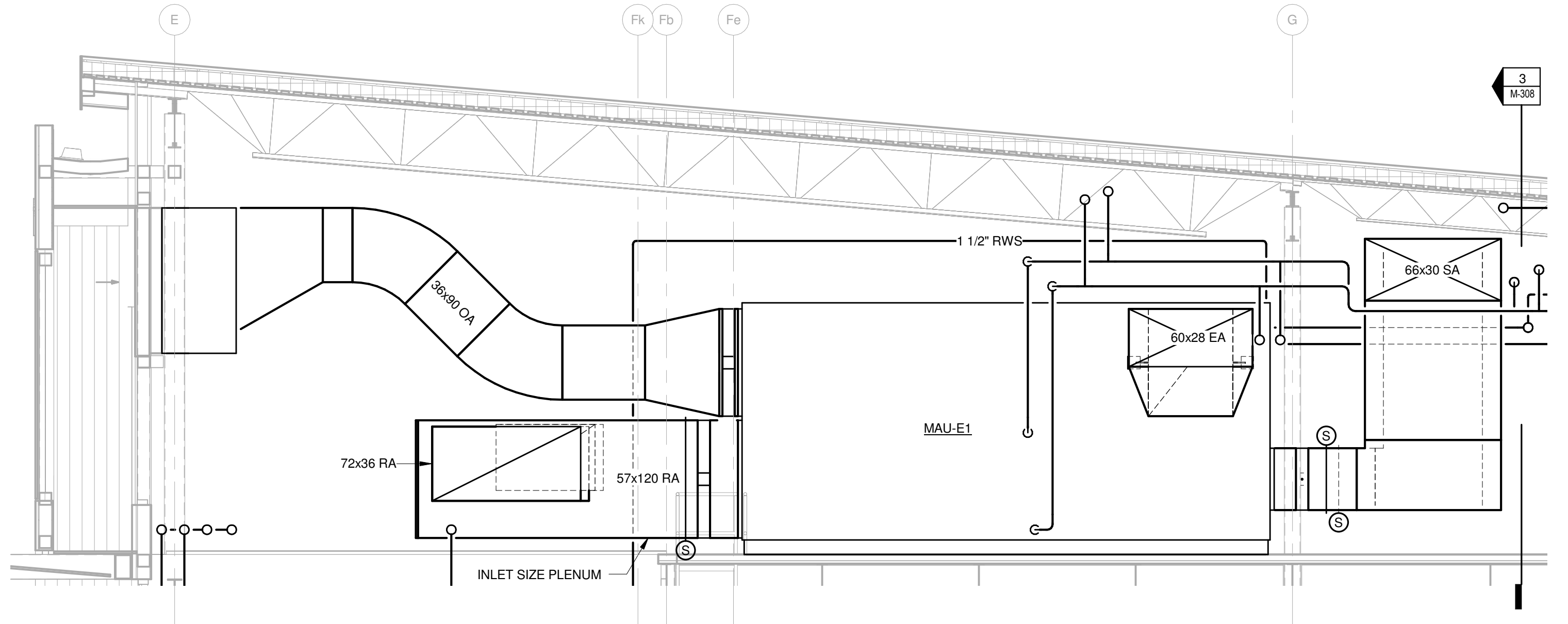




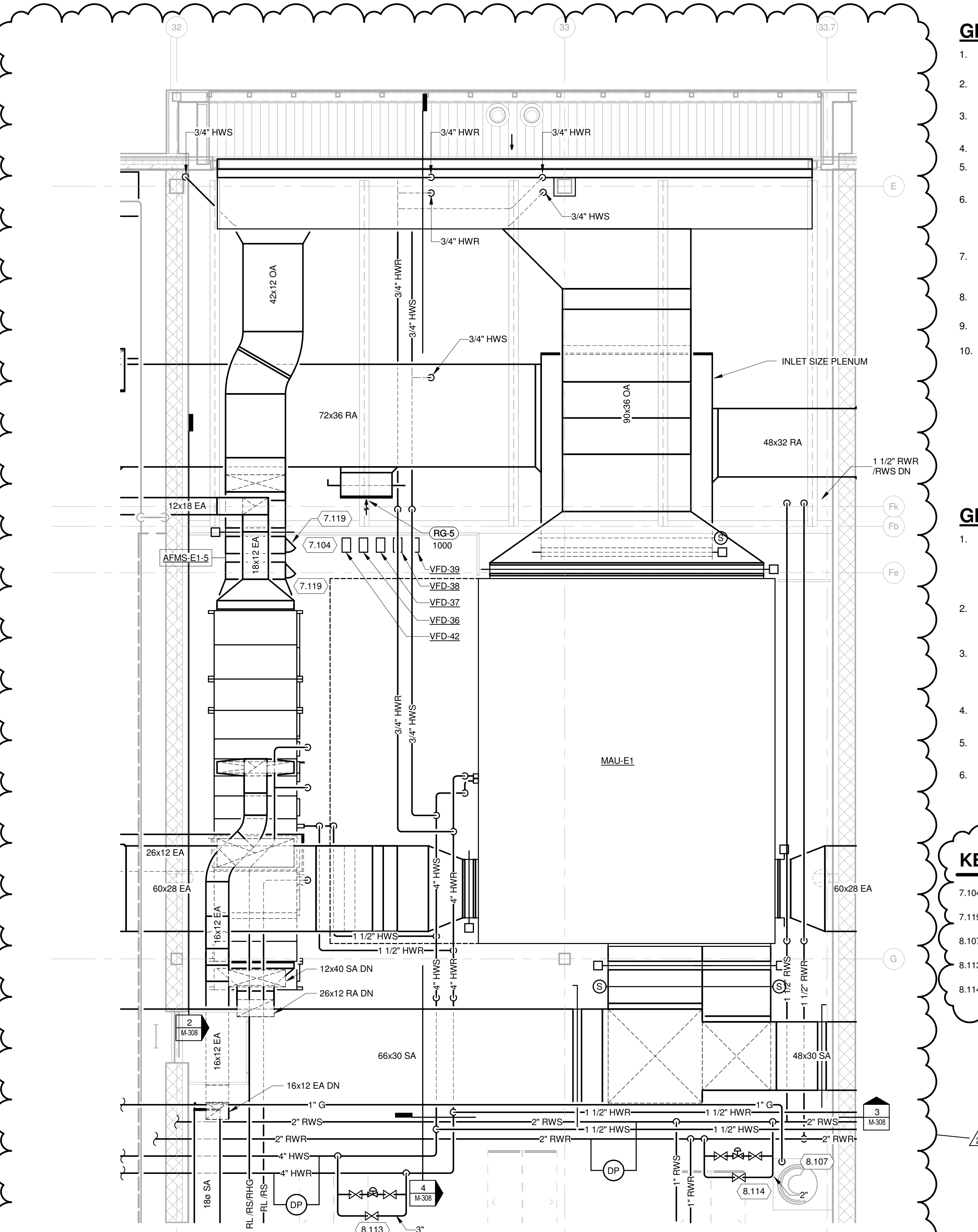
2 AHU-E1 SECTION
1/4" = 1'-0"



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



4 MAU-E1 SECTION
1/4" = 1'-0"



1 ENLARGED MECHANICAL PLAN - MEZZANINE - AREA E
1/4" = 1'-0"

GENERAL PIPING NOTES:

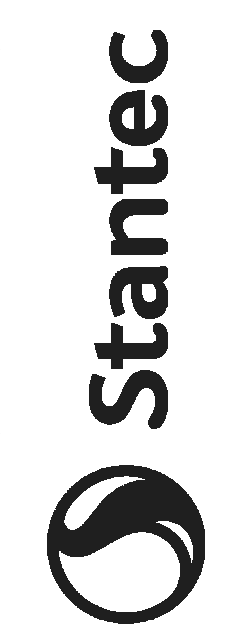
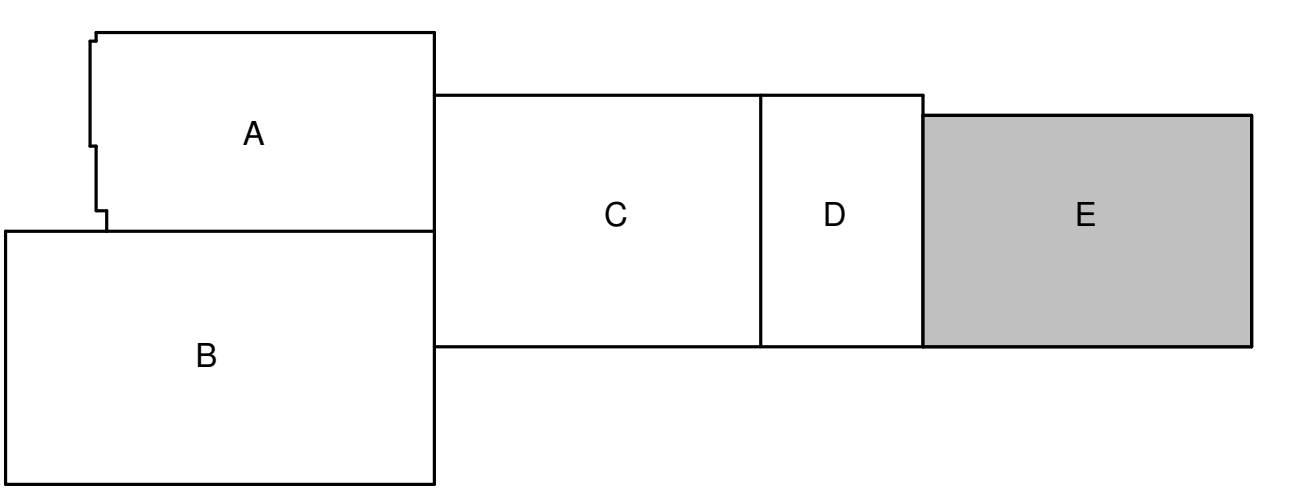
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KEYED NOTES

- 7.104 MOUNT VFDS TO UNISTRUT STAND.
- 7.119 10" X 10" DUCT ACCESS DOOR.
- 8.107 1" GAS DN TO GWH.
- 8.113 3" 2-WAY BYPASS.
- 8.114 2" 2-WAY BYPASS.



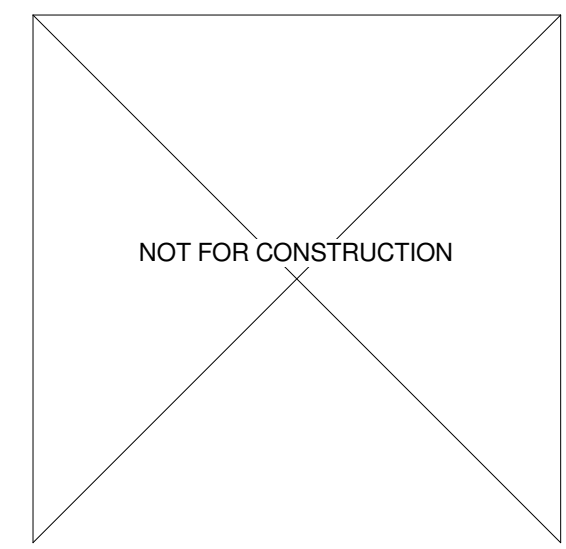
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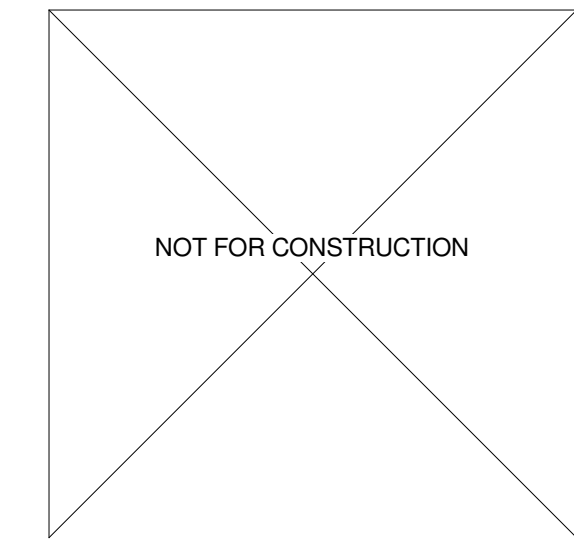
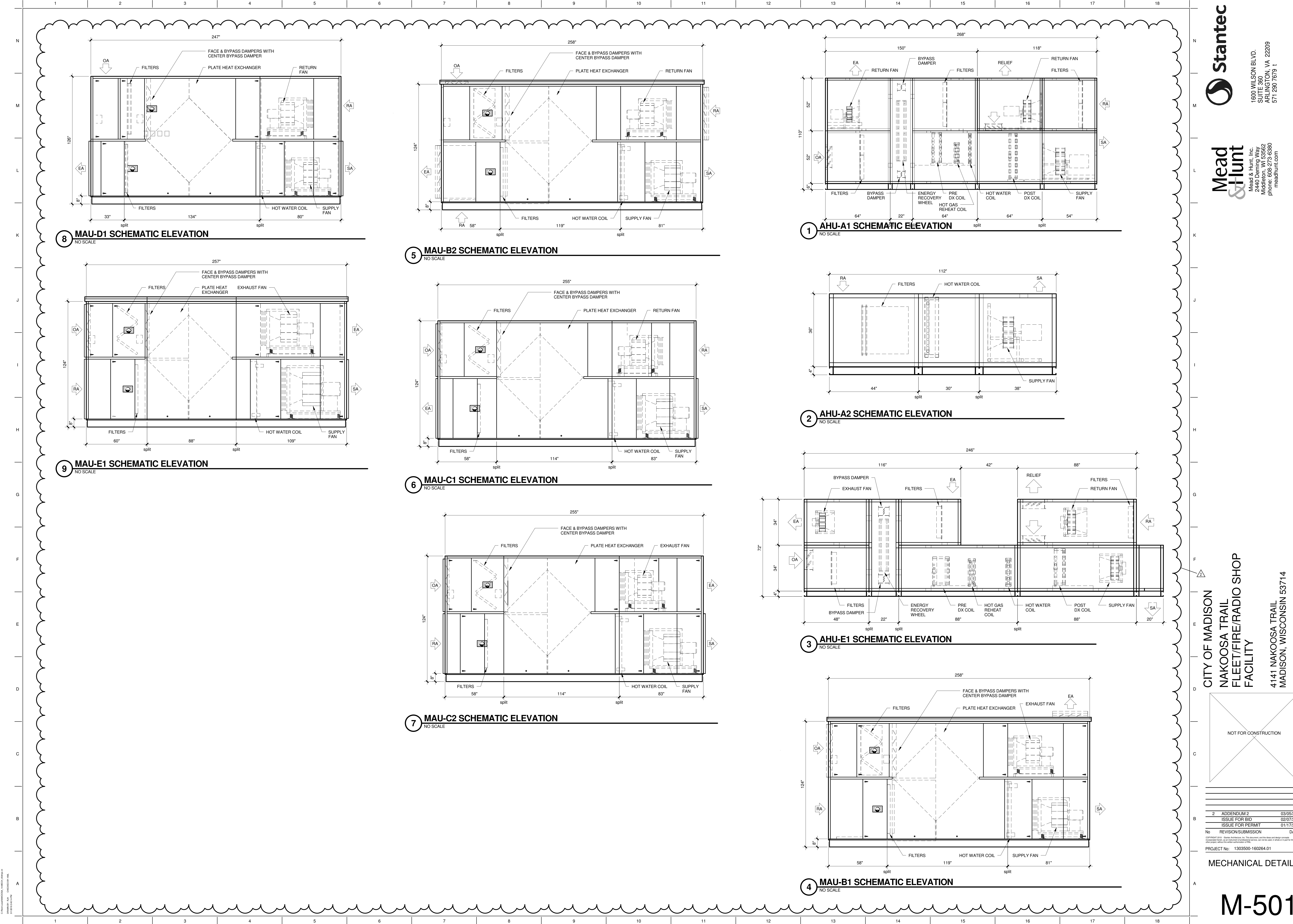


No.	REVISION/SUBMISSION	DATE
2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019

PROJECT No: 1303500-160264.01

ENLARGED MECHANICAL
PLAN AND SECTIONS -
MEZZANINE - AREA E

M-308



REVISION/SUBMISSION	DATE
2 ADDENDUM 2	03/05/2019
ISSUE FOR BID	02/07/2019
ISSUE FOR PERMIT	01/17/2019

PROJECT No: 1303500-160264.01

MECHANICAL DETAILS

N
M
L
K
J
I
H
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E
D
C
B
A

AIR TERMINAL (AT) SCHEDULE												
MARK	MANUFACTURER, MODEL NUMBER	TYPE	AIR FLOW (CFM)			(1) MAX. PD (IN WC)	INLET SIZE (IN)	OUTLET SIZE (IN)	WEIGHT (LB)	ACCESSORIES	LOCATION	REMARKS
			MIN.	MAX.	HEATING							
AT-1-1	ACCUTROL, ACCUVALVE AVT3000	1.3	80	540	80	1	8	8	12	3	RM. 1028-1	
AT-1-2	ACCUTROL, ACCUVALVE AVT3000	1.3	120	755	120	1	10	10	14	3	RM. 1042	
AT-1-3	ACCUTROL, ACCUVALVE AVT3000	1.3	120	595	120	1	10	10	14	3	RM. 1027-1	
AT-1-4	ACCUTROL, ACCUVALVE AVT3000	1.3	80	335	80	1	8	8	12	3	RM. 1041	
AT-1-5	ACCUTROL, ACCUVALVE AVT3000	1.3	180	915	180	1	12	12	16	3	RM. 1038	
AT-1-6	ACCUTROL, ACCUVALVE AVT3000	1.3	80	335	80	1	8	8	12	3	RM. 1028-2	
AT-1-7	ACCUTROL, ACCUVALVE AVT3000	1.3	1660	1660	1660	1	14	14	20	3	RM. 1024	
AT-1-8	ACCUTROL, ACCUVALVE AVT3000	1.3	180	910	180	1	12	12	16	3	RM. 1015	
AT-1-9	ACCUTROL, ACCUVALVE AVT3000	1.3	945	945	945	1	12	12	16	3	RM. 1022	
AT-1-10	ACCUTROL, ACCUVALVE AVT3000	1.3	30	280	30	1	6	6	9	3	RM. 1014	
AT-1-11	ACCUTROL, ACCUVALVE AVT3000	1.3	300	845	300	1	10	10	14	3	RM. 1017	
AT-1-12	ACCUTROL, ACCUVALVE AVT3000	1.3	80	400	80	1	8	8	12	3	RM. 1012	
AT-1-13	ACCUTROL, ACCUVALVE AVT3000	1.3	30	135	30	1	6	6	9	3	RM. 1007	
AT-1-14	ACCUTROL, ACCUVALVE AVT3000	1.3	120	935	120	1	10	10	14	3	RM. 1001/1002	
AT-1-15	ACCUTROL, ACCUVALVE AVT3000	1.3	80	240	80	1	8	8	12	3	RM. 1003	
AT-1-16	ACCUTROL, ACCUVALVE AVT3000	1.3	30	160	30	1	6	6	9	3	RM. 1004	
AT-1-17	ACCUTROL, ACCUVALVE AVT3000	1.3	30	130	30	1	6	6	9	3	RM. 1008	
AT-1-18	ACCUTROL, ACCUVALVE AVT3000	1.3	80	430	80	1	8	8	12	3	RM. 1009	
AT-1-19	ACCUTROL, ACCUVALVE AVT3000	1.3	30	155	30	1	6	6	9	3	RM. 1005	
AT-2-1	ACCUTROL, ACCUVALVE AVT3000	1.3	130	370	130	1	8	8	12	3	RM. 1121	
AT-2-2	ACCUTROL, ACCUVALVE AVT3000	1.3	130	370	130	1	8	8	12	3	RM. 1123	
AT-2-3	ACCUTROL, ACCUVALVE AVT3000	1.3	630	1910	630	1	14	14	20	3	RM. 1125/1136	
AT-2-4	ACCUTROL, ACCUVALVE AVT3000	1.3	70	200	70	1	6	6	9	3	RM. 1132	
AT-2-5	ACCUTROL, ACCUVALVE AVT3000	1.3	320	950	320	1	10	10	14	3	RM. 1141/1137	
TYPE			ACCESSORIES									
1	PRESSURE INDEPENDENT	5	SERIES FAN POWERED				1	ELECTRIC HEAT		5	2-WAY TWO-POSITION VALVE	
2	PRESSURE DEPENDENT	6	PARALLEL FAN POWERED				2	FUSE		6	3-WAY TWO-POSITION VALVE	
3	SINGLE DUCT	7	BYPASS				3	DDC CONTROLS		7	2-WAY PROPORTIONAL VALVE	
4	DUAL DUCT						4	PNEUMATIC CONTROLS		8	3-WAY PROPORTIONAL VALVE	

REMARKS:
(1) MAXIMUM STATIC PRESSURE DROP BASED ON MAXIMUM RATED AIR FLOW.

DESTRATIFICATION FAN (DF) SCHEDULE														
MARK	MANUFACTURER, MODEL NUMBER	FAN TYPE	AIRFLOW RATE (CFM)	MOTOR		FAN SPEED (RPM)	DRIVE TYPE	ELECTRICAL (VOLTS/PH)	(2) MOUNTING HEIGHT	MAX. SOUND (DB)	WEIGHT (LB)	LOCATION		REMARKS
				(HP)	INPUT (W)									
DF-A1	GREENHECK, DS-12 SERIES	CEILING	63,333	0.75	658	IP 40	119	DIRECT	460 / 3	22'-5"	50	ZONE A	(1)(3)(4)(5)(6)	
DF-B1	GREENHECK, DS-12 SERIES	CEILING	65,833	0.75	658	IP 40	119	DIRECT	460 / 3	23'-6"	50	ZONE B	(1)(3)(4)(5)(6)	
DF-B2	GREENHECK, DS-12 SERIES	CEILING	65,833	0.75	658	IP 40	119	DIRECT	460 / 3	23'-6"	55	ZONE B	(1)(3)(4)(5)(6)	
DF-B3	GREENHECK, DS-12 SERIES	CEILING	65,833	0.75	658	IP 40	119	DIRECT	460 / 3	23'-6"	55	ZONE B	(1)(3)(4)(5)(6)	
DF-C1	GREENHECK, DS-14 SERIES	CEILING	90,000	0.75	664	IP 40	97	DIRECT	460 / 3	24'-5"	55	ZONE C	(1)(3)(4)(5)(6)	
DF-C2	GREENHECK, DS-14 SERIES	CEILING	90,000	0.75	664	IP 40	97	DIRECT	460 / 3	24'-5"	55	ZONE C	(1)(3)(4)(5)(6)	
DF-D1	GREENHECK, DS-12 SERIES	CEILING	65,833	0.75	658	IP 40	119	DIRECT	460 / 3	24'-0"	55	ZONE E	(1)(3)(4)(5)(6)	
DF-D2	GREENHECK, DS-12 SERIES	CEILING	65,833	0.75	658	IP 40	119	DIRECT	460 / 3	18'-0"	55	ZONE E	(1)(3)(4)(5)(6)	
DF-D3	GREENHECK, DS-12 SERIES	CEILING	63,333	0.75	658	IP 40	119	DIRECT	460 / 3	24'-0"	55	ZONE E	(1)(3)(4)(5)(6)	
DF-D4	GREENHECK, DS-12 SERIES	CEILING	63,333	0.75	658	IP 40	119	DIRECT	460 / 3	18'-0"	55	ZONE E	(1)(3)(4)(5)(6)	

REMARKS:
(1) PROVIDE MOUNTING HARDWARE AND DROP TUBE.
(2) MOUNTING HEIGHT IS FROM FINISHED FLOOR TO BOTTOM OF FAN IN FEET.
(3) PROVIDE WITH WALL MOUNTED REMOTE CONTROL FOR ON/OFF AND SPEED CONTROL. PROVIDE VARIABLE FREQUENCY DRIVE.
(4) FAN CONTROL: NEMA 1 PANEL, SPEED CONTROL, START/STOP SWITCH, AND FUSED DISCONNECT. INTEGRATE W/ BUILDING AUTOMATION SYSTEM.
(5) PROVIDE DIRECT-DRIVE MOTOR.
(6) REMOVE ALL LOGOS AND DECALS, REFERENCING MANUFACTURER, FROM FAN AND FAN CONTROL.
(7) 1 AIR TURN PER 3 MINUTES.

ZONE DAMPER (D) SCHEDULE													
MARK	MANUFACTURER, MODEL NUMBER	TYPE	SIZE (IN)		AIR FLOW (CFM)	MAX. PD (IN WG)	CONTROL TYPE	ACTUATOR TYPE	CONSTRUCTION MATERIAL	(1) INTERLOCK WITH	SERVING	LOCATION	REMARKS
			WIDTH	DEPTH									
ZD-MAU-D1-1	RUSKIN, CD-50	M-OB	24	12	1150	0.15	MOD	EL	GALV	T-STAT	AREA-D	RM 1098	
ZD-MAU-D1-2	RUSKIN, CD-50	M-OB	14	12	1550	0.15	MOD	EL	GALV	T-STAT	AREA-D	RM 1097	
ZD-MAU-D1-3	RUSKIN, CD-50	M-OB	12	12	1150	0.15	MOD	EL	GALV	T-STAT	AREA-D	RM 1098	
ZD-MAU-D1-4	RUSKIN, CD-50	M-OB	24	12	1550	0.15	MOD	EL	GALV	T-STAT	AREA-D	RM 1097	
TYPE			CONTROL TYPE					ACTUATOR TYPE					
M-PB	MOTOR OPERATED PARALLEL BLADE		G-PB		GRAVITY OPERATED PARALLEL BLADE			MOD		MODULATING		PN PNEUMATIC	
M-OB	MOTOR OPERATED OPPOSED BLADE		M-BF		MOTOR OPERATED BUTTERFLY			TP		TWO POSITION		EL ELECTRIC	

REMARKS:
(1) SEE SPECIFICATION SECTION 230993 - HVAC SEQUENCE OF OPERATIONS FOR BREATHABLE AIR SYSTEM ROOMS.

AIR FLOW MEASURING STATION (AFMS) SCHEDULE												
MARK	MANUFACTURER, MODEL	DUCT DIMENSION (IN)	AIRFLOW RANGE (CFM)	VELOCITY RANGE (FPM)	SENSORS (IN)	MAX PRESS. DROP (IN WG)	HONEYCOMB AIR STRAIGHTENER	SENSOR ACCURACY	TEMPERATURE RANGE (°F)	SERVICE	SERVES	REMARKS
AFMS-A1-1	EBTRON, GOLD SERIES	90 X 60	0 - 10,500	100 - 2,000	15	0.1	NO	5%	-20 TO 140	AHU-A1-OA	AHU-A1	(1)(2)(3)
AFMS-A1-2	PIEZOMETER	-	0 - 10,500	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-A1-1	AHU-A1	(4)
AFMS-A1-3	PIEZOMETER	-	0 - 10,500	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-A1-1	AHU-A1	(4)
AFMS-A1-4	PIEZOMETER	-	0 - 3,185	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	EF-A1-1	AHU-A1	(4)
AFMS-A2-1	PIEZOMETER	-	0 - 10,500	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-A2-1	AHU-A1	(4)
AFMS-E1-5	EBTRON, GOLD SERIES	12X12	0 - 3,800	100 - 2,000	4	0.1	NO	5%	-20 TO 140	AHU-E1-OA	AHU-E1	(1)(2)(3)
AFMS-E1-6	PIEZOMETER	-	0 - 3,800	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-E1-3	AHU-E1	(4)
AFMS-E1-7	PIEZOMETER	-	0 - 3,800	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-E1-3	AHU-E1	(4)
AFMS-E1-8	PIEZOMETER	-	0 - 3,800	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	EF-E1-4	AHU-E1	(4)
AFMS-B1-1	PIEZOMETER	-	0 - 15,000	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-B1-1	MAU-B1	(4)
AFMS-B1-2	PIEZOMETER	-	0 - 15,000	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-B1-2	MAU-B1	(4)
AFMS-B1-3	PIEZOMETER	-	0 - 10,500	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-B1-1	MAU-B1	(4)
AFMS-B1-4	PIEZOMETER	-	0 - 10,500	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-B1-2	MAU-B1	(4)
AFMS-B2-1	PIEZOMETER	-	0 - 15,000	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-B2-1	MAU-B2	(4)
AFMS-B2-2	PIEZOMETER	-	0 - 15,000	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-B2-2	MAU-B2	(4)
AFMS-B2-3	PIEZOMETER	-	0 - 10,500	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-B2-1	MAU-B2	(4)
AFMS-B2-4	PIEZOMETER	-	0 - 10,500	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-B2-2	MAU-B2	(4)
AFMS-C1-1	PIEZOMETER	-	0 - 14,175	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-C1-1	MAU-C1	(4)
AFMS-C1-2	PIEZOMETER	-	0 - 14,175	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-C1-2	MAU-C1	(4)
AFMS-C1-3	PIEZOMETER	-	0 - 8,250	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-C1-1	MAU-C1	(4)
AFMS-C1-4	PIEZOMETER	-	0 - 8,250	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-C1-2	MAU-C1	(4)
AFMS-C2-1	PIEZOMETER	-	0 - 14,175	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-C2-1	MAU-C2	(4)
AFMS-C2-2	PIEZOMETER	-	0 - 14,175	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-C2-2	MAU-C2	(4)
AFMS-C2-3	PIEZOMETER	-	0 - 8,250	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-C2-1	MAU-C2	(4)
AFMS-C2-4	PIEZOMETER	-	0 - 8,250	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-C2-2	MAU-C2	(4)
AFMS-D1-1	PIEZOMETER	-	0 - 8,500	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-D1-1	MAU-D1	(4)
AFMS-D1-2	PIEZOMETER	-	0 - 8,500	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-D1-2	MAU-D1	(4)
AFMS-D1-3	PIEZOMETER	-	0 - 7,250	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-D1-1	MAU-D1	(4)
AFMS-D1-4	PIEZOMETER	-	0 - 7,250	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-D1-2	MAU-D1	(4)
AFMS-E1-1	PIEZOMETER	-	0 - 22,500	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-E1-1	MAU-E1	(4)
AFMS-E1-2	PIEZOMETER	-	0 - 22,500	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	SF-E1-2	MAU-E1	(4)
AFMS-E1-3	PIEZOMETER	-	0 - 15,000	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-E1-1	MAU-E1	(4)
AFMS-E1-4	PIEZOMETER	-	0 - 15,000	100 - 2,000	PER MFR	0.1	NO	5%	-20 TO 140	RF-E1-2	MAU-E1	(4)

REMARKS:
(1) DUCT MOUNTED THERMAL DISPERSION AIR FLOW STATION. REFER TO SPECIFICATION SECTION 230900 - INSTRUMENTATION AND CONTROL FOR HVAC.
(2) PROVIDE AN AIR FLOW STATION TO MEASURE THE OUTDOOR AIR CFM FOR EACH AIR HANDLING UNIT.
(3) ALL DUCT AND OUTSIDE AIR OPENING DIMENSIONS TO BE FIELD VERIFIED TO DETERMINE SENSOR LENGTH, SPACING, AND TUBE QUANTITIES.
(4) ALL INLET FAN PIEZOMETER RINGS SHALL BE PROVIDED BY SPECIFICATION SECTION 237300 AND 237313 MANUFACTURERS.

CUSTOM MAKE-UP AIR HANDLING UNIT (MAU) SCHEDULE (1)																										
MARK	MANUFACTURER, MODEL NUMBER	TYPE	OUTDOOR AIR FLOW (%)	SUPPLY FAN				EXHAUST FAN																		
				TOTAL CNG AIRFLOW (CFM)	TOTAL NORMAL AIRFLOW (CFM)	FAN TYPE	CLASS	FAN (QTY.)	ESP (IN WC)	TSP (IN WC)	FAN POWER (BHP)	FAN POWER (HP)	FAN SPEED (RPM)	TOTAL CNG AIRFLOW (CFM)	TOTAL NORMAL AIRFLOW (CFM)	FAN TYPE	CLASS	FAN (QTY.)	ESP (IN WC)	TSP (IN WC)	FAN POWER (BHP)	FAN POWER (HP)	FAN SPEED (RPM)	HEATING COIL MARK	COOLING COIL MARK	AIR FILTER MARK
MAU-B1	INNOVENT	C,I,H	100	-	21,000	PLEN / DIRECT	III	2	0.75	2.8	11.9 EA	2 @ 15	1971	-	21,000	PLEN / DIRECT	II	2	0.75	2.3	7.0 EA	2 @ 10	1845	HC-B1-1	-	AF-B1-1 & 2
MAU-B2	INNOVENT	C,I,H	100	-	21,000	PLEN / DIRECT	III	2	0.75	3.0	12.5 EA	2 @ 15	1993	-	21,000	PLEN / DIRECT	II	2	0.75	2.3	7.0 EA	2 @ 10	1875	HC-B2-1	-	AF-B2-1 & 2
MAU-C1	INNOVENT	C,I,H	100	28,350	16,500	PLEN / DIRECT	III	2	0.75	3.1	10.7 EA	2 @ 15	1850	0	16,500	PLEN / DIRECT	II	2	0.75	2.1	5.5 EA	2 @ 7.5	2241	HC-C1-1	-	AF-C1-1 & 2
MAU-C2	INNOVENT	C,I,H	100	28,350	16,500	PLEN / DIRECT	III	2	0.75	2.8	9.5 EA	2 @ 15	1504	0	16,500	PLEN / DIRECT	II	2	0.75	2.1	4.5 EA	2 @ 7.5	1551	HC-C2-1	-	AF-C2-1 & 2
MAU-D1	INNOVENT	C,I,H	100	-	17,000	PLEN / DIRECT	III	2	0.75	2.4	5.1 EA	2 @ 7.5	1613	-	14,500	PLEN / DIRECT	II	2	0.75	1.8	3.3 EA	2 @ 5.0	1393	HC-D1-1	-	AF-D1-1 & 2
MAU-E1	INNOVENT	C,I,H	100	45,000	30,000	PLEN / DIRECT	III	2	0.75	2.5	17.1 EA	2 @ 20	1641	0	30,000	PLEN / DIRECT	II	2	0.75	2.1	8.6 EA	2 @ 10	1495	HC-E1-2	-	AF-E1-1 & 2

STATIC-PLATE, AIR-TO-AIR HEAT EXCHANGER																				ELECTRICAL								
WINTER - NORMAL AIRFLOW										SUMMER - NORMAL AIRFLOW																		
SUPPLY AIR					EXHAUST AIR					HEAT RECOVERY (MBH)	EFFICIENCY (%)	SUPPLY AIR					EXHAUST AIR					HEAT RECOVERY (MBH)	EFFICIENCY (%)					
MARK	EAT DB/WB (°F)	LAT DB/WB (°F)	AIR FLOW (CFM)	EAT DB/RH (°F%)	LAT DB/RH (°F%)	AIR FLOW (CFM)	AIR FLOW (CFM)	EAT DB/WB (°F)	LAT DB/WB (°F)			HEATING COOLING APD (IN WC)	EAT DB/RH (°F%)	LAT DB/RH (°F%)	HEATING COOLING APD (IN WC)	AIR FLOW (CFM)	HEAT RECOVERY (MBH)	EFFICIENCY (%)	(VOLTS/PH)	FLA (A)	MCA (A)							MCCP (A)
MAU-B1	-15 / -15.5	36.9 / 25.4	21,000	70 / 30	26.7 / 100	21,000	1,003	-	21,000	89.6 / 74.2	80.8 / 71.6	0.80 / 1.0	75.0 / 50.0	83.7 / 37.7	0.90 / 1.0	21,000	205	-	460 / 3	-	-	-	-	12,200	AREA B	MEZZ		
MAU-B2	-15 / -15.5	36.9 / 25.4	21,000	70 / 30	26.7 / 100	21,000	1,003	-	21,000	89.6 / 74.2	80.8 / 71.6	0.80 / 1.0	75.0 / 50.0	83.7 / 37.7	0.90 / 1.0	21,000	205	-	460 / 3	-	-	-	-	12,600	AREA B	MEZZ		
MAU-C1	-15 / -15.5	37.3 / 25.7	16,500	70 / 30	26.5 / 100	16,500	770	-	16,500	89.6 / 74.2	80.8 / 71.6	0.80 / 1.0	75.0 / 50.0	83.8 / 37.6	0.75 / 0.85	16,500	161	-	460 / 3	-	-	-	-	12,100	AREA C	MEZZ		
MAU-C2	-15 / -15.5	37.3 / 25.7	16,500	70 / 30	26.5 / 100	16,500	770	-	16,500	89.6 / 74.2	80.8 / 71.6	0.65 / 0.85	75.0 / 50.0	83.7 / 37.7	0.75 / 0.85	16,500	161	-	460 / 3	-	-	-	-	12,300	AREA C	MEZZ		
MAU-D1	-15 / -15.5	35.3 / 24.4	14,500	70 / 30	22.2 / 100	14,500	692	-	14,500	89.6 / 74.2	80.8 / 71.6	0.80 / 1.0	75.0 / 50.0	84.8 / 36.4	0.60 / 0.70	14,500	142	-	460 / 3	-	-	-	-	9,300	AREA D	MEZZ		
MAU-E1	-15 / -15.5	33.0 / 22.9	30,000	70 / 30	29.2 / 100	30,000	1,432	-	30,000	89.6 / 74.2	81.5 / 71.8	0.65 / 0.85	75.0 / 50.0	83.0 / 38.6	0.60 / 0.70	30,000	293	-	460 / 3	-	-	-	-	17,700	AREA E	MEZZ		
TYPE										ACCESSORIES																		
PR	PACKAGED ROOFTOP			DF	DIRECT FIRED			D	DOWNFLOW			1	INTAKE HOOD			4	ROOF CURB											
C	CUSTOM			I	INDOOR			H	HORIZONTAL			2	INLET DAMPER			5	DOUBLE WALL											
IF	INDIRECT FIRED			O	OUTDO...			U	UPFLOW			3	DISCHARGE DAMPER			6	COIL GUARDS											

REMARKS:
(1) REFER TO 23 73 00 FOR CUSTOM AIR HANDLING UNIT SPECIFICATION FOR ANY ADDITIONAL ACCESSORIES.

HEATING/COOLING COIL (HC/CC) SCHEDULE																										
MARK	MANUFACTURER, MODEL NUMBER	COIL TYPE	AIR FLOW (CFM)	PD (IN WC)	COIL			CAPACITY (MBH)		EAT (°F)		LAT (°F)		SST (°F)	TYPE	MEDIA			PRESSURE		EWT (°F)	LWT (°F)	EQUIPMENT SERVED	LOCATION	REMARKS	
					FACE VEL. (FPM)	FACE AREA (F²)	ROWS	TOTAL	SENS.	DB	WB	DB	WB			FLOW RATE		ENTER (PSI)	DROP (FT)							
																(LB/H)	(GPM)			(TON)						
CC-A1-1	INNOVENT, CUSTOM AHU	DX	3,800	0.44	240	15.8	6	10	184.4	120.3	81.2	67.3	52.2	51.2	46.5	R410a	-	-	-	-	-	-	-	AHU-A1 / ACCU-A1	MEZZ	(1)
CC-A1-2	INNOVENT, CUSTOM AHU	DX	10,700	0.62	532	20.1	4	10	153.2	133.3	66.6	58.6	55.2	53.5	47.0	R410a	-	-	-	-	-	-	-	AHU-A1 / ACCU-A2	MEZZ	(1)
CC-E1-1	DAIKIN, MODULAR AHU	DX	1,250	0.25	225	5.6	6	10	61.2	36.9	78.3	66.9	51.3	50.5	45.0	R410a	-	-	-	-	-	-	-	AHU-E1 / ACCU-E1	MEZZ	(1)
CC-E1-2	DAIKIN, MODULAR AHU	DX	3,800	0.48	510	7.5	3	12	58.7	48.2	66.6	58.6	55.0	53.0	45.0	R410a	-	-	-	-	-	-	-	AHU-E1 / ACCU-E3	MEZZ	(1)
HC-A1-1	INNOVENT, CUSTOM AHU	HWS	3,800	0.10	251	-	2	11	352	352	-15	-	70	-	-	30% PG	-	19	-	-	-	140	101	AHU-A1	MEZZ	(1)
HC-A1-2	INNOVENT, CUSTOM AHU	HGR	3,800	0.02	264	-	1	10	93	93	55	-	75	-	-	R410a	-	-	-	-	-	-	-	AHU-A1	MEZZ	(1)(2)
HC-A2-1	DAIKIN, MODULAR AHU	HWS	4,000	0.57	474	-	4	10	326	326	45	-	119	-	-	30% PG	-	16.2	-	-	-	140	100	AHU-A2	MEZZ	(1)
HC-E1-1	DAIKIN, MODULAR AHU	HWS	3,800	0.13	486	-	1	12	95	95	38	-	61	-	-	30% PG	-	4.7	-	-	-	140	100	AHU-E1	MEZZ	(1)
HC-E1-2	DAIKIN, MODULAR AHU	HGR	3,800	0.13	486	-	1	12	62	62	60	-	75	-	-	R410a	-	-	-	-	-	-	-	AHU-E1	MEZZ	(1)(3)
HC-B1-1	INNOVENT, CUSTOM MAU	HWS	21,000	0.54	697	-	2	12	889	889	36	-	75	-	-	30% PG	-	62.4	-	-	-	140	110	MAU-B1	MEZZ	(1)
HC-B2-1	INNOVENT, CUSTOM MAU	HWS	21,000	0.40	741	-	3	8	2,051	2,051	-15	-	75	-	-	30% PG	-	143.9	-	-	-	140	110	MAU-B2	MEZZ	(1)
HC-C1-1	INNOVENT, CUSTOM MAU	HWS	16,500	0.36	700	-	3	7	680	680	37	-	75	-	-	30% PG	-	47.7	-	-	-	140	110	MAU-C1 (NORMAL MODE)	MEZZ	(1)(4)
HC-C2-1	INNOVENT, CUSTOM MAU	HWS	28,350	0.36	700	-	3	7	1,786	1,786	-15	-	43	-	-	30% PG	-	93.8	-	-	-	140	100	MAU-C1 (CNG MODE)	MEZZ	(1)(4)
	INNOVENT, CUSTOM MAU	HWS	16,500	0.62	755	-	2	12	680	680	37	-	75	-	-	30% PG	-	47.7	-	-	-	140	110	MAU-C2 (NORMAL MODE)	MEZZ	(1)(4)
HC-D1-1	INNOVENT, CUSTOM MAU	HWS	28,350	0.62	755	-	2	12	1,765	1,765	-15	-	42	-	-	30% PG	-	92.7	-	-	-	140	100	MAU-C2 (CNG MODE)	MEZZ	(1)(4)
	INNOVENT, CUSTOM MAU	HWS	14,500	0.16	420	-	2	9	614	614	36	-	75	-	-	30% PG	-	43.1	-	-	-	140	110	MAU-D1	MEZZ	(1)(4)
HC-E1-2	INNOVENT, CUSTOM MAU	HWS	30,000	0.54	697	-	2	12	1,269	1,269	36	-	75	-	-	30% PG	-	89.1	-	-	-	140	110	MAU-E1 (NORMAL MODE)	MEZZ	(1)(4)
	INNOVENT, CUSTOM MAU	HWS	45,000	0.54	697	-	2	12	2,849	2,849	-15	-	43	-	-	30% PG	-	142.0	-	-	-	140	100	MAU-E1 (CNG MODE)	MEZZ	(1)(4)

REMARKS:
(1) BY SAME MANUFACTURER OF MAKE-UP AIR OR AIR HANDLING UNIT.
(2) PROVIDE HOT GAS REHEAT COIL DOWNSTREAM OF REFRIGERATION COIL CC-A1-1
(3) PROVIDE HOT GAS REHEAT COIL DOWNSTREAM OF REFRIGERATION COIL CC-E1-1
(4) HOT WATER COILS PERFORMANCE SELECTIONS BASED ON NORMAL AND CNG MODES OF OPERATION.

MODULAR INDOOR - AIR HANDLING UNIT (AHU) SCHEDULE																						
MARK	MANUFACTURER, MODEL NUMBER	TYPE	OUTDOOR AIRFLOW (CFM / %)	SUPPLY FAN						RETURN FAN						HEATING COIL MARK	COOLING COIL MARK	HOT GAS REHEAT COIL MARK	LOCATION	ACCESSORIES		
				TOTAL NORMAL AIRFLOW (CFM)	FAN TYPE	FAN (QTY.)	ESP (IN WC)	FAN POWER (HP)	FAN SPEED (RPM)	TOTAL NORMAL AIRFLOW (CFM)	FAN TYPE	FAN (QTY.)	ESP (IN WC)	FAN POWER (HP)	FAN SPEED (RPM)							
AHU-A2	DAIKIN, CAH009GHCM	C,I,H	1,000 / 25	4,000	PLENUM	1	1.50	3.5	2,140							HC-A2-1			AREA A MEZZ	(5)		
AHU-E1	DAIKIN, CAH008GDCM	C,I,H	1,435 / 37	3,800	PLENUM	1	1.50	6.3	2,130	3,800	PLENUM	1	0.5	2.10	1,503	HC-E1-1	CC-E1-1	HC-E1-2	AREA E MEZZ	(5)		

MARK		ROTARY WHEEL, AIR-TO-AIR HEAT EXCHANGER (DOAS-E1)															EXHAUST FAN							REMARKS
		WINTER - NORMAL AIRFLOW					SUMMER - NORMAL AIRFLOW					VFD MOTOR		TOTAL NORMAL AIRFLOW (CFM)	FAN TYPE	FAN (QTY.)	ESP (IN WC)	FAN POWER (HP)	FAN SPEED (RPM)					
		SUPPLY AIR		EXHAUST AIR			ENERGY RECOVERY (MBH)	SUPPLY AIR		EXHAUST AIR			ENERGY RECOVERY (MBH)											
		AIR FLOW (CFM)	EAT DB/WB (°F)	LAT DB/WB (°F)	AIR FLOW (CFM)	EAT DB/WB (°F)		LAT DB/WB (°F)	AIR FLOW (CFM)	EAT DB/WB (°F)	LAT DB/WB (°F)	AIR FLOW (CFM)								EAT DB/WB (°F)	LAT DB/WB (°F)			
AHU-A2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(1)(4)(5)(6)	
AHU-E1	1,435	-15 / -15.5	47.9 / 37.3	1,435	68.0 / 49.8	6.1 / 6.0	97.4	1,250	87.0 / 75.0	78.3 / 66.9	1,250	75.0 / 62.5	83.8 / 72.0	40.8	1(1/2)	115 / 1	1,435	PLENUM	1	0.75	2.3	1,925	(1)(2)(3)(4)(5)(6)	
TYPE		ACCESSORIES					SECTION TYPES																	
CS	CENTRAL STATION	I	INDOOR			1	INTAKE HOOD	RF	RETURN FAN	HC	HEATING COIL	SF	SUPPLY FAN											
PR	PACKAGED ROOFTOP	O	OUTDOOR			2	INLET DAMPER	EC	ECONOMIZER	AC	ACCESS	DP	DISCHARGE PLENUM											
C	CUSTOM	D	DOWNFLOW			3	DISCHARGE DAMPER	MB	MIXING BOX	H	HUMIDIFIER	WH	WEATHER HOOD											
IF	INDIRECT FIRED	H	HORIZONTAL			4	ROOF CURB	AB	AIR BLENDER	CC	COOLING COIL	D	DAMPER											
DF	DIRECT FIRED	U	UPFLOW			5	DOUBLE WALL	BL	BLANK	ML	MOISTURE ELIMINATOR	B	BURNER											
						6	COIL GUARDS	F	FILTER	ER	ENERGY RECOVERY													

N
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A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

EXHAUST FAN (EF) AND SUPPLY FAN (SF) SCHEDULE																								
MARK	MANUFACTURER, MODEL NUMBER	FAN TYPE	AIR FLOW RATE (CFM)	ESP (IN WC)	MOTOR			FAN SPEED (RPM)	DRIVE TYPE	ELECTRICAL (VOLTS/PH)	MTG. HEIGHT (FT)	MAXIMUM SOUND			(1) INTERLOCK WITH	OPENING (IN)		ACCESSORIES	WEIGHT (LB)	INTEGRAL VFD (Y OR N)	SERVICE	LOCATION	SERVICE	REMARKS
					(BHP)	(HP)	TYPE					(3) (DB)	(4) SONES	INSTALL. TYPE		LENGTH	WIDTH							
EF-A1	SEE AHU-A1 SCHEDULE	-	-	-	-	-	-	-	-	-	-	-	-	-	AHU-A1	-	-	-	-	-	N	AREA A	SEE AHU-A1 SCHEDULE	
EF-A2	GREENHECK, AER-E24C-315-VG	9	3,000	0.25	0.23	1/2	ECM	1121	DIRECT	115 / 1	12	68	16	B	AHU-A2	32	32	-	-	N	AREA A	RM 1025	PARTS ECONOMIZER	
EF-A3	GREENHECK, SQ-100-VG	2	1,100	0.50	0.23	3/4	ECM	998	DIRECT	115 / 1	8	55	8	D	AHU-A2	20	20	-	-	N	AREA A	RM 1026	COMPRESSOR ROOM	
EF-B1	GREENHECK, AER-E20C-605-VG	9	300	0.25	0.04	1/4	ECM	831	DIRECT	115 / 1	15	54	7	B	T-STAT	26	26	-	-	N	AREA B	RM 1054	FIRE RISER ROOM	
EF-C1	GREENHECK, AER-E48C-620-C-VGD	9	19,335	0.25	1.85	3	INV-TEFC	605	DIRECT	460 / 3	34	76	25	B	MAU-C1 & C2	56	56	-	-	Y	AREA C	RM 1084	CNG EXHAUST - HVM	(8) NIC
EF-C2	GREENHECK, AER-E48C-620-C-VGD	9	19,335	0.25	1.85	3	INV-TEFC	605	DIRECT	460 / 3	34	76	25	B	MAU-C1 & C2	56	56	-	-	Y	AREA C	RM 1084	CNG EXHAUST - HVM	(8) NIC
EF-C3	GREENHECK, AER-E48C-620-C-VGD	9	19,335	0.25	1.85	3	INV-TEFC	605	DIRECT	460 / 3	34	76	25	B	MAU-C1 & C2	56	56	-	-	Y	AREA C	RM 1084	CNG EXHAUST - HVM	(8) NIC
EF-D1	GREENHECK, SP-A90-130-VG	4	125	0.50	-	-	ECM	-	DIRECT	115 / 1	10	-	2.5	B	MAN. SWITCH	-	-	-	-	N	AREA D	RM 1099	TOILET EXHAUST	
EF-D2	GREENHECK, SQ-97-VG	2	100	0.50	0.06	1/4	ECM	1290	DIRECT	115 / 1	-	56	8.9	D	-	-	-	-	-	N	AREA D	RM	VEHICLE LIFT PIT	
EF-E1	GREENHECK, AER-E48C-625-C-VGD	9	25,900	0.25	3.24	5	INV-TEFC	674	DIRECT	460 / 3	27	78	29	B	MAU-E1	56	56	-	-	Y	AREA E	RM 1118	CNG EXHAUST - RADIO INSTALL	(5), (6)
EF-E2	GREENHECK, AER-E42C-625-C-VGD	9	15,800	0.25	1.60	2	INV-TEFC	629	DIRECT	460 / 3	27	74	24	B	MAU-E1	50	50	-	-	Y	AREA E	RM 1147	CNG EXHAUST - RADIO SERVICE	(5), (6)
EF-E3	GREENHECK, AER-E24C-615-VG	9	1,400	0.25	0.12	1/2	ECM	760	DIRECT	115 / 1	27	55	7	B	-	32	32	-	-	N	AREA E	RM 1150	EXTERNAL STORAGE BLDG	(7)
EF-E4	SEE AHU-E1 SCHEDULE	-	-	-	-	-	-	-	-	-	-	-	-	-	AHU-E1	-	-	-	-	-	-	SEE AHU-E1 SCHEDULE		
CENTRIFUGAL 1 SIDEWALL 2 INLINE 3 UTILITY 4 CEILING 5 ROOFTOP UPBLAST 6 ROOFTOP HOODED 7 ROOFTOP FILTERED SUPPLY AXIAL 8 ROOFTOP DOWNBLAST 9 SIDEWALL PROPELLER 10 TUBE AXIAL 11 VANE AXIAL 12 ROOFTOP UPBLAST 13 ROOFTOP FRP UPBLAST 14 ROOFTOP HOODED MOTOR TYPES UDP OPEN DRIP PROOF TEFC TOTALLY ENCLOSED FAN COOLED XPRL EXPLOSION PROOF INV INVERTER DUTY TEAO TOTALLY ENCLOSED AIR OVER ECM ELECTRONICALLY COMMUTATED MOTOR INSTALLATION TYPE A FREE INLET, FREE OUTLET B FREE INLET, DUCTED OUTLET C DUCTED INLET, FREE OUTLET D DUCTED INLET, DUCTED OUTLET																								
REMARKS: (1) SEE SPECIFICATION SECTION 230993 - HVAC SEQUENCE OF OPERATION. (2) MOUNTING HEIGHT IS FROM FINISHED FLOOR LEVEL OF INDICATED ROOM, TO TOP OF FAN OR WALL OPENING. (3) SOUND POWER LEVEL RATING PER AMCA 301. (4) LOUDNESS VALUES AT 5 FT IN A HEMISPHERICAL FREE FIELD PER AMCA 301. (5) FANS TO BE INSTALLED AND WIRED. (6) SEE SPECIFICATION SECTION 230514 - VARIABLE FREQUENCY DRIVES. (7) ALTERNATE BID NO.1 (8) FUTURE PLACEMENT OF EXHAUST FANS. (NOT IN CONTRACT; NIC)																								
ACCESSORIES 1 GRAVITY BACKDRAFT DAMPER 2 MOTORIZED BACKDRAFT DAMPER 3 WEATHERHOOD 4 WALL COLLAR 5 MOTOR WIRE GUARD 6 MOTOR (OSHA) WIRE GUARD 7 SHUTTER GUARD 8 FAN SPEED CONTROLLER 9 NON-FUSED DISCONNECT SWITCH 10 INLET WIRE GUARD 11 OUTLET WIRE GUARD 12 INLET FILTER GUARD 13 MOTOR COVER 14 HOUSING INSULATION 15 BELT (OSHA) WIRE GUARD 16 INLET BELL 17 INLET/OUTLET FLANGES 18 INLET VANE DAMPER 19 EXTENDED LUBE LINES 20 MFR. ROOF CURB 21 HOODED WALL CAP 22 HOODED ROOF CAP 23 HINGED ROOF CURB 24 INLET GRILLE 25 BASE MOUNTED VIBRATION ISOLATORS 26 DUCT ADAPTOR 27 HANGING SPRING ISOLATORS 28 HANGING NEOPRENE ISOLATORS 29 FACTORY INSULATED ANGLED FILTER BOX																								

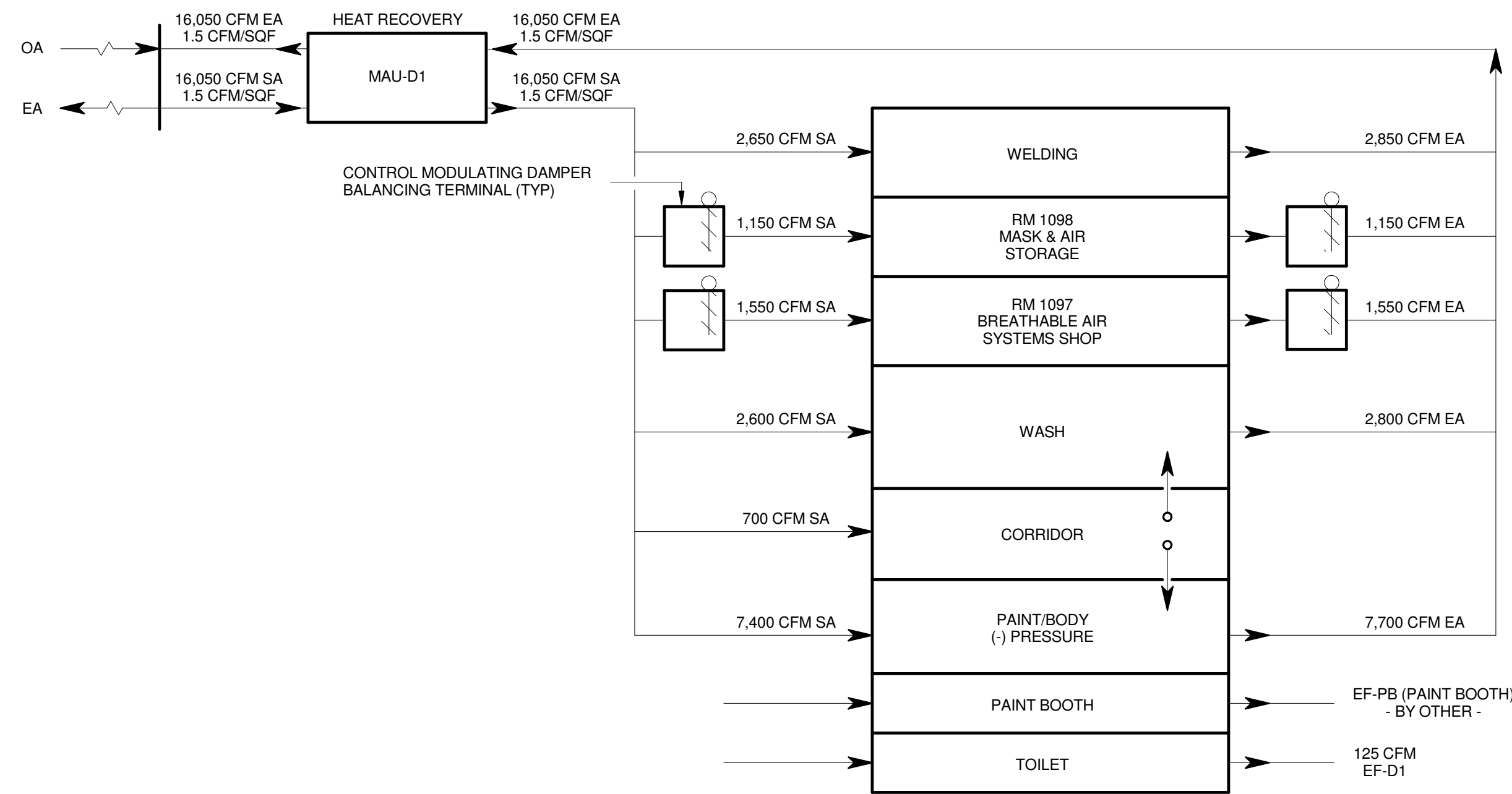
VARIABLE FREQUENCY DRIVE (VFD) SCHEDULE											
MARK	MODEL, MANUFACTURER NUMBER	SERVICE	SERVES	MOTOR (HP)	VOLTS PHASE	ENCLOSURE	ACCESSORIES			LOCATION	REMARKS
							INTEGRAL DISCONNECT	MANUAL BYPASS			
VFD-1	DANFOSS, VLT	DESTRAT.	DF-A1	0.75	460 / 3	NEMA 1	YES	NO		AREA A	RM 1025 (1)
VFD-2	DANFOSS, VLT	DESTRAT.	DF-B1	0.75	460 / 3	NEMA 1	YES	NO		AREA B	RM 1055 (1)
VFD-3	DANFOSS, VLT	DESTRAT.	DF-B2	0.75	460 / 3	NEMA 1	YES	NO		AREA B	RM 1055 (1)
VFD-4	DANFOSS, VLT	DESTRAT.	DF-B3	0.75	460 / 3	NEMA 1	YES	NO		AREA B	RM 1055 (1)
VFD-5	DANFOSS, VLT	DESTRAT.	DF-C1	0.75	460 / 3	NEMA 1	YES	NO		AREA C	RM 1084 (1)
VFD-6	DANFOSS, VLT	DESTRAT.	DF-C2	0.75	460 / 3	NEMA 1	YES	NO		AREA C	RM 1084 (1)
VFD-7	DANFOSS, VLT	DESTRAT.	DF-E1	0.75	460 / 3	NEMA 1	YES	NO		AREA E	RM 1118 (1)
VFD-8	DANFOSS, VLT	DESTRAT.	DF-E2	0.75	460 / 3	NEMA 1	YES	NO		AREA E	RM 1118 (1)
VFD-9	DANFOSS, VLT	DESTRAT.	DF-E3	0.75	460 / 3	NEMA 1	YES	NO		AREA E	RM 1146 (1)
VFD-10	DANFOSS, VLT	DESTRAT.	DF-E4	0.75	460 / 3	NEMA 1	YES	NO		AREA E	RM 1146 (1)
VFD-11	DANFOSS, VECON	WHEEL	AHU-A1	0.75	115 / 1	NEMA 1	YES	NO		AREA A	MEZZ (1)
VFD-12	DANFOSS, VLT	SF-A1-1	AHU-A1	15	460 / 3	NEMA 1	YES	NO		AREA A	MEZZ (1)
VFD-13	DANFOSS, VLT	RF-A1-1	AHU-A1	7.5	460 / 3	NEMA 1	YES	NO		AREA A	MEZZ (1)
VFD-14 NOT USED											
VFD-15 NOT USED											
VFD-16	DANFOSS, VLT	SF-B1-1	MAU-B1	15	460 / 3	NEMA 1	YES	NO		AREA B	MEZZ (1)
VFD-17	DANFOSS, VLT	SF-B1-2	MAU-B1	15	460 / 3	NEMA 1	YES	NO		AREA B	MEZZ (1)
VFD-18	DANFOSS, VLT	RF-B1-1	MAU-B1	10	460 / 3	NEMA 1	YES	NO		AREA B	MEZZ (1)
VFD-19	DANFOSS, VLT	RF-B1-2	MAU-B1	10	460 / 3	NEMA 1	YES	NO		AREA B	MEZZ (1)
VFD-20	DANFOSS, VLT	SF-B2-1	MAU-B2	15	460 / 3	NEMA 1	YES	NO		AREA B	MEZZ (1)
VFD-21	DANFOSS, VLT	SF-B2-2	MAU-B2	15	460 / 3	NEMA 1	YES	NO		AREA B	MEZZ (1)
VFD-22	DANFOSS, VLT	RF-B2-1	MAU-B2	10	460 / 3	NEMA 1	YES	NO		AREA B	MEZZ (1)
VFD-23	DANFOSS, VLT	RF-B2-2	MAU-B2	10	460 / 3	NEMA 1	YES	NO		AREA B	MEZZ (1)
VFD-24	DANFOSS, VLT	SF-C1-1	MAU-C1	15	460 / 3	NEMA 1	YES	NO		AREA C	MEZZ (1)
VFD-25	DANFOSS, VLT	SF-C1-2	MAU-C1	15	460 / 3	NEMA 1	YES	NO		AREA C	MEZZ (1)
VFD-26	DANFOSS, VLT	RF-C1-1	MAU-C1	7.5	460 / 3	NEMA 1	YES	NO		AREA C	MEZZ (1)
VFD-27	DANFOSS, VLT	RF-C1-2	MAU-C1	7.5	460 / 3	NEMA 1	YES	NO		AREA C	MEZZ (1)
VFD-28	DANFOSS, VLT	SF-C2-1	MAU-C2	15	460 / 3	NEMA 1	YES	NO		AREA C	MEZZ ABOVE 1095 (1)
VFD-29	DANFOSS, VLT	SF-C2-2	MAU-C2	15	460 / 3	NEMA 1	YES	NO		AREA C	MEZZ ABOVE 1095 (1)
VFD-30	DANFOSS, VLT	RF-C2-1	MAU-C2	7.5	460 / 3	NEMA 1	YES	NO		AREA C	MEZZ ABOVE 1095 (1)
VFD-31	DANFOSS, VLT	RF-C2-2	MAU-C2	7.5	460 / 3	NEMA 1	YES	NO		AREA C	MEZZ ABOVE 1095 (1)
VFD-32	DANFOSS, VLT	SF-D1-1	MAU-D1	7.5	460 / 3	NEMA 1	YES	NO		AREA D	RM 2003 (1)
VFD-33	DANFOSS, VLT	SF-D1-2	MAU-D1	7.5	460 / 3	NEMA 1	YES	NO		AREA D	RM 2003 (1)
VFD-34	DANFOSS, VLT	RF-D1-1	MAU-D1	5	460 / 3	NEMA 1	YES	NO		AREA D	RM 2003 (1)
VFD-35	DANFOSS, VLT	RF-D1-2	MAU-D1	5	460 / 3	NEMA 1	YES	NO		AREA D	RM 2003 (1)
VFD-36	DANFOSS, VLT	SF-E1-1	MAU-E1	20	460 / 3	NEMA 1	YES	NO		AREA E	MEZZ (1)
VFD-37	DANFOSS, VLT	SF-E1-2	MAU-E1	20	460 / 3	NEMA 1	YES	NO		AREA E	MEZZ (1)
VFD-38	DANFOSS, VLT	RF-E1-1	MAU-E1	10	460 / 3	NEMA 1	YES	NO		AREA E	MEZZ (1)
VFD-39	DANFOSS, VLT	RF-E1-2	MAU-E1	10	460 / 3	NEMA 1	YES	NO		AREA E	MEZZ (1)
VFD-40	DANFOSS, VLT	EF-A1-1	AHU-A1	3	460 / 3	NEMA 1	YES	NO		AREA A	MEZZ (1)
VFD-41 NOT USED											
VFD-42	DANFOSS, VECON	WHEEL	AHU-E1	0.5	115 / 1	NEMA 1	YES	NO		AREA E	MEZZ (1)
VFD-43 NOT USED											
VFD-44 NOT USED											
VFD-45	GREENHECK, VGD - INTEGRAL	EF-C1-1	EF-C1	3	460 / 3	NEMA 1	YES	NO		AREA C	MEZZ (2)
VFD-46	GREENHECK, VGD - INTEGRAL	EF-C2-1	EF-C2	3	460 / 3	NEMA 1	YES	NO		AREA C	MEZZ (2)
VFD-47	GREENHECK, VGD - INTEGRAL	EF-C3-1	EF-C3	3	460 / 3	NEMA 1	YES	NO		AREA C	MEZZ (2)
VFD-48	GREENHECK, VGD - INTEGRAL	EF-E1-1	EF-E1	5	460 / 3	NEMA 1	YES	NO		AREA E	RM 1118 (2)
VFD-49	GREENHECK, VGD - INTEGRAL	EF-E2-1	EF-E2	2	460 / 3	NEMA 1	YES	NO		AREA E	RM 1147 (2)
VFD-50	DANFOSS, VLT	PRIMARY PUMP	HWP-1	10	460 / 3	NEMA 1	YES	NO		AREA B	MEZZ (1)
VFD-51	DANFOSS, VLT	PRIMARY PUMP	HWP-2	10	460 / 3	NEMA 1	YES	NO		AREA B	MEZZ (1)
VFD-52	DANFOSS, VLT	RADIANT PUMP	HWP-3	10	460 / 3	NEMA 1	YES	NO		AREA B	MEZZ (1)
VFD-53	DANFOSS, VLT	RADIANT PUMP	HWP-4	10	460 / 3	NEMA 1	YES	NO		AREA B	MEZZ (1)

AIR OUTLET AND INLET SCHEDULE																			
MARK	MANUFACTURER, MODEL NUMBER	APPLICATION	(4) MAX AIRFLOW (CFM)	OUTLET INLET	TYPE	MOUNTING SYSTEM	(5) DAMPER	(3) FACE SIZE (IN)	NECK SIZE (IN)	(2) MAX NOISE LEVEL (NC)	PATTERN	MAX SP (IN WG)	FINISH	MATERIAL	(1) MOUNTING HEIGHT (IN)	ACCESSORIES	LOCATION	REMARKS	
CD-1	TITUS, OMNI	SUPPLY	110	1	7	1	NONE	24x24	6	24	4-WAY	0.1	W	STEEL		24x24 LAY-IN PANEL	SEE PLANS (8)		
CD-2	TITUS, OMNI	SUPPLY	225	1	7	1	NONE	24x24	8	24	4-WAY	0.1	W	STEEL	CEILING	24x24 LAY-IN PANEL	SEE PLANS (8)		
CD-3	TITUS, OMNI	SUPPLY	400	1	7	1	NONE	24x24	10	24	4-WAY	0.1	W	STEEL	CEILING	24x24 LAY-IN PANEL	SEE PLANS (8)		
CD-4	TITUS, OMNI	SUPPLY	575	1	7	1	NONE	24x24	12	24	4-WAY	0.1	W	STEEL	CEILING	24x24 LAY-IN PANEL	SEE PLANS (8)		
CD-5	TITUS, OMNI	SUPPLY	750	1	7	1	NONE	24x24	14	24	4-WAY	0.1	W	STEEL	CEILING	24x24 LAY-IN PANEL	SEE PLANS (8)		
SG-1	CARNES, RCLA	SUPPLY	15,330	3	2	4	NONE	50x48	48x46	40	-	0.1	W	STEEL			SEE PLANS (6)(9)		
SG-2	CARNES, RCLA	SUPPLY	4900	3	2	4	NONE	50x26	48x24	20	-	0.1	W	STEEL			SEE PLANS (6)(9)		
SG-3	TITUS, 272RS	SUPPLY	305	3	2	4	NONE	15x9	12x6	20	-	0.1	W	STEEL			SEE PLANS (6)		
SG-4	TITUS, 272RS	SUPPLY	1145	3	2	4	NONE	39x13	36x10	20	-	0.1	W	STEEL			SEE PLANS (6)		
SG-5	TITUS, 272RS	SUPPLY	500	3	2	4	NONE	15x13	12x10	20	-	0.1	W	STEEL			SEE PLANS (6)		
SG-6	TITUS, 272RS	SUPPLY	1275	3	2	3	NONE	27x15	24x12	25	-	1.1	W	STEEL			SEE PLANS		
SG-7	TITUS, 272RS	SUPPLY	2830	3	2	3	NONE	51x21	48x18	20	-	2.1	W	STEEL			SEE PLANS		
SG-8	TITUS, 272RS	SUPPLY	1600	3	2	3	NONE	51x13	48x10	20	-	3.1	W	STEEL	11'-2"		SEE PLANS		
SG-9	TITUS, 272RS	SUPPLY	710	3	2	NONE	21x13	18x10	20	-	0.1	W	STEEL			SEE PLANS (6)			
RG-1	TITUS, 50F	RETURN	575	3	8	1	NONE	15x15	12x12	20	-	0.1	W	ALUMINUM	CEILING	24x24 LAY-IN PANEL	SEE PLANS		
RG-2	TITUS, 50F	RETURN	975	3	8	1	NONE	19x19	16x16	20	-	0.1	W	ALUMINUM	CEILING	24x24 LAY-IN PANEL	SEE PLANS		
RG-3	TITUS, 50F	RETURN	1725	3	8	1	NONE	24x24	22x22	20	-	0.1	W	ALUMINUM	CEILING	24x24 LAY-IN PANEL	SEE PLANS		
RG-4	TITUS, 350RL	RETURN	1800	3	3	3	NONE	38x16	36x14	22	-	0.1	W	STEEL			SEE PLANS (7)		
RG-5	TITUS, 350RL	RETURN	1800	3	3	4	NONE	38x16	36x14	22	-	0.1	W	STEEL			SEE PLANS		
RG-6	TITUS, 350RL	RETURN	4000	3	3	4	NONE	50x26	48x24	20	-	0.1	W	STEEL			SEE PLANS		
RG-7	TITUS, 350RL	RETURN	1245	3	3	3	NONE	26x14	24x12	30	-	0.1	W	STEEL			SEE PLANS		
RG-8	TITUS, 350RL	RETURN	2900	3	3	3	NONE	44x20	42x18	22	-	0.1	W	STEEL			SEE PLANS (7)		
EG-1	TITUS, 350RL	EXHAUST	125	3	3	2	NONE	12x8	10x6	20	-	0.1	W	STEEL	CEILING		SEE PLANS (7)		
EG-2	TITUS, 350RL	EXHAUST	125	3	3	1	NONE	12x8	10x6	20	-	0.1	W	STEEL	CEILING	24x24 LAY-IN PANEL	SEE PLANS (7)		
EG-3	TITUS, 350RL	EXHAUST	125	3	3	3	NONE	12x8	10x6	20	-	0.1	W	STEEL			SEE PLANS (7)		
EG-4	TITUS, 350RL	EXHAUST	125	3	3	4	NONE	12x8	10x6	20	-	0.1	W	STEEL			SEE PLANS (7)		
EG-5	TITUS, 350RL	EXHAUST	190	3	3	1	NONE	20x8	18x6	20	-	1.1	W	STEEL	CEILING	24x24 LAY-IN PANEL	SEE PLANS (7)		
EG-6	TITUS, 350RL	EXHAUST	375	3	3	1	NONE	20x20	18x18	20	-	2.1	W	STEEL	CEILING	24x24 LAY-IN PANEL	SEE PLANS (7)		
EG-7	TITUS, PAR	EXHAUST	500	3	4	1	NONE	24x24	12x12	20	-	0.1	W	STEEL	CEILING	24x24 LAY-IN PANEL	SEE PLANS		
EG-8	TITUS, PAR	EXHAUST	725	3	4	1	NONE	24x24	15x15	20	-	0.1	W	STEEL	CEILING	24x24 LAY-IN PANEL	SEE PLANS		
EG-9	TITUS, PAR	EXHAUST	975	3	4	1	NONE	24x24	18x18	20	-	0.1	W	STEEL	CEILING	24x24 LAY-IN PANEL	SEE PLANS		
EG-10	TITUS, PAR	EXHAUST	1345	3	4	1	NONE	24x24	22x22	20	-	0.1	W	STEEL	CEILING	24x24 LAY-IN PANEL	SEE PLANS		
EG-11	TITUS, 350RL	EXHAUST	300	3	3	3	NONE	12x12	10x10	20	-	0.05	W	STEEL	10'-8"		SEE PLANS (7)		
TG-1	TITUS, 350RL	TRANSFER	115	3	3	2	NONE	12x12	10x10	15	-	0.05	W	STEEL			SEE PLANS (7)		
TG-2	TITUS, 350RL	TRANSFER	160	3	3	3	NONE	20x16	18x14	15	-	0.05	W	STEEL	7'-8"		SEE PLANS (7)		
TG-3	TITUS, 350RL	TRANSFER	375	3	3	3	NONE	20x20	18x18	20	-	2.1	W	STEEL			SEE PLANS (7)		
TG-4	TITUS, 350RL	TRANSFER	1145	3	3	3	NONE	32x14	30x12	15	-	0.05	W	STEEL			SEE PLANS (7)		
TG-5	TITUS, 350RL	TRANSFER	1800	3	3	3	NONE	38x16	36x14	20	-	0.1	W	STEEL			SEE PLANS (7)		
OUTLET/INLET					TYPE	MOUNTING SYSTEM					DAMPER			FINISH					
1	DIFFUSER	1	SINGLE DEFLECTION	9	LOUVERED						N	NONE			M	MILL			
2	REGISTER	2	DOUBLE DEFLECTION	10	HOODED						B	BUTTERFLY			W	MFR. STANDARD WHITE			
3	GRILLE	3	FIXED BLADE	11	DOOR TRANSFER						G	GRAVITY			S	MFR. SPECIAL COLOR			
4	LOUVER	4	PERFORATED	12	BRICK						M	MOTORIZED PNEUMATIC			A	ANODIZED ALUMINUM			
5	PENTHOUSE	5	LINEAR	13	PUNKAH						ME	MOTORIZED ELECTRIC			P	PRIME COAT (FINAL COAT BY GC)			
6	VENT	6	PLENUM SLOT	14	LAMINAR						OB	OPPOSED BLADE			O	OTHER (SEE SPECIFICATIONS)			
		7	PLAQUE	15	DRUM						PB	PARALLEL BLADE							
		8	EGGCRATE								LL	LOW LEAKAGE, INSUL.							

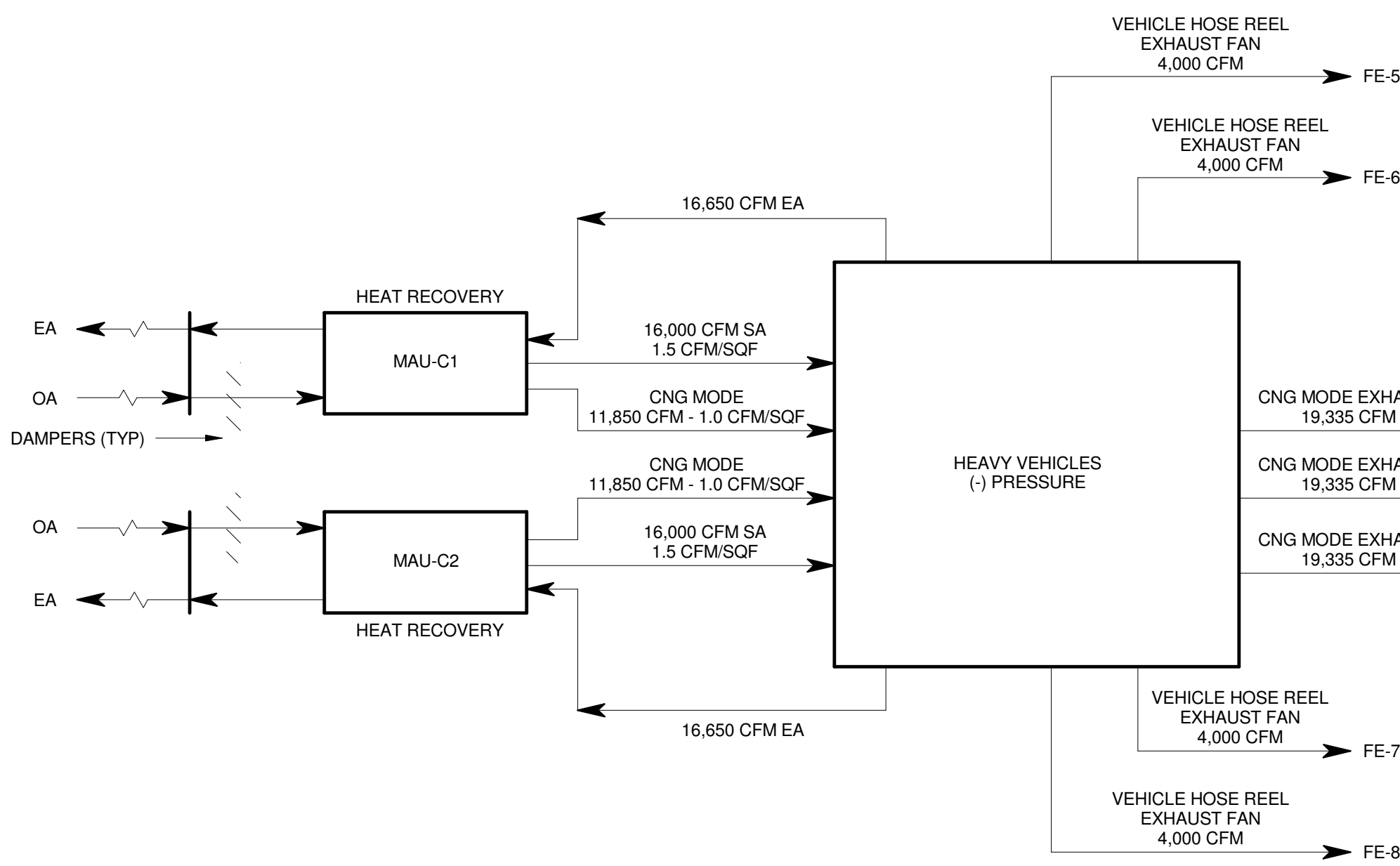
MECHANICAL PIPING & VALVE SCHEDULE																									
SYSTEM MARK	SERVICE	ROOM TYPE	PIPING SIZE (IN)	PIPING										VALVE						VALVE EQUAL TO: (MANUFACTURER, MODEL)	REMARKS				
				MATERIAL TYPE	WALL THICKNESS	ASME PIPING			PRESS. CLASS	FITTING TYPE	ENDS	JOINT TYPE	TYPE	CHECK VALVES	PRESS. CLASS	CONNECTION TYPE	BODY MATERIAL	TRIM MATERIAL							
						STD	GRADE	TYPE																	
G	NATURAL GAS - LOW PRESSURE (2 PSIG OR <)	OUTDOORS	1/2 TO 2	BS	SCH 40	A 53	B	E or S	150#	MI	PLAIN	TH	2BV	-	125#	THREADED	BRONZE	BRONZE	APOLLO, 77-100	PAINT PIPE					
		INDOORS	2 1/2 OR MORE	BS	SCH 40	A 53	B	E or S	150#	WS	BEVELED	BW	PV	-	125#	FLANGED	IRON	IRON	XOMOX TUFLINE	PAINT PIPE					
			1/2 TO 2	BS	SCH 40	A 53	B	E or S	150#	MI	PLAIN	TH	2BV	-	125#	THREADED	BRONZE	BRONZE	APOLLO, 77-100	PAINT PIPE					
			2 1/2 OR MORE	BS	SCH 40	A 53	B	E or S	150#	WS	BEVELED	BW	PV	-	125#	FLANGED	IRON	IRON	XOMOX TUFLINE	PAINT PIPE					
HWS/R	HEATING WATER SUPPLY/RETURN	ALL AREAS	3/4 TO 2	Cu	L	B 88	-	-	-	WCu	PLAIN	SD	2BV	SWING	125#	THREADED	BRONZE	SS	APOLLO 70-100/200 SERIES	-					
			2 1/2 OR MORE	BS	SCH 40	A 53	A or B	E or S	150#	WS,WC,FS	BEVELED	BW	1BV	SWING	125#	FLANGED	DUCTILE	SS	AMERICAN VALVE BALL VALVE	-					
RWS/R	RADIANT HEATING WATER SUPPLY/RETURN	ALL AREAS	3/4 TO 2	Cu	L	B 88	-	-	-	WCu	PLAIN	SD	2BV	SWING	125#	THREADED	BRONZE	SS	APOLLO 70-100/200 SERIES	-					
			2 1/2 OR MORE	BS	SCH 40	A 53	A or B	E or S	150#	WS,WC,FS	BEVELED	BW	1BV	SWING	125#	FLANGED	DUCTILE	SS	AMERICAN VALVE BALL VALVE	-					
SWS/R	SOLAR HEATING WATER SUPPLY/RETURN	ALL AREAS	3/4 TO 2	Cu	L	B 88	-	-	-	WCu	PLAIN	SD	2BV	SWING	125#	THREADED	BRONZE	SS	APOLLO 70-100/200 SERIES	-					
			2 1/2 OR MORE	BS	SCH 40	A 53	A or B	E or S	150#	WS,WC,FS	BEVELED	BW	1BV	SWING	125#	FLANGED	DUCTILE	SS	AMERICAN VALVE BALL VALVE	-					
CD	HVAC CONDENSATE DRAIN	ALL AREAS	3/4 TO 2	CU	L	B 306	-	-	-	WCu	PLAIN	SD	2BV	-	-	-	-	-	-	-					
MWS	MAKE UP WATER	ALL AREAS	3/4 TO 2	CU	L	B 88	-	-	-	WCu	PLAIN	SD	2BV	SWING	125#	THREADED	BRONZE	SS	APOLLO 70-100/200 SERIES	-					
RL/RS/HG	REFRIGERANT	ALL AREAS	ALL SIZES	CU	ACR	B 280	-	-	-	WCu	PLAIN	SD or BZ	-	-	-	-	-	-	-	-					
MATERIAL TYPE				JOINT TYPE				FITTING TYPE										ASME PIPING TYPE				VALVE TYPE			
BS	BLACK STEEL	BW	BUTT WELD	CI	CAST IRON (THREADED) (ASME B16.4 FOR IRON, ASME A 351 FOR SS) (FLANGED) (ASME B16.1)					WC	WROUGHT CAST (FLANGES, ASME B16.5)					S	SEAMLESS			1BV	ONE PIECE FULL PORT BALL VALVE				
SS	STAINLESS STEEL	SW	SOCKET WELD	MI	MALLEABLE IRON (THREADED) (ASME B16.3)					FS	FORGED STEEL (FLANGES, ASME B16.5)					E	ELECTRIC RESISTANCE WELDED			2BV	TWO PIECE FULL PORT BALL VALVE				
GS	GALVANIZED STEEL	TH	THREADED	WS	WROUGHT STEEL (ASTM A 234 FOR STEEL, ASTM A 403 FOR SS)					PS	PVC SOCKET					F	FURNACE BUTT WELDED			3BV	THREE PIECE FULL PORT BALL VALVE				
PE	POLYETHYLENE	FL	FLANGED	PE	POLYETHYLENE (ASTM D 2683 (SOCKET) OR ASTM D 3261 (BUTT))					WCu	WROUGHT COPPER (ASME B 16.22)									SBV	STEEL BODY BALL VALVE				
CU	COPPER	SF	SOCKET FUSION	WW	WELDED WROUGHT STEEL (ASTM A 774 FOR SS)															NGV	NON-RISING STEM GATE VALVE				
PVC	PVC	BF	BUTT FUSION																	RGV	RISING STEM GATE VALVE				
		SD	SOLDERED																	QGV	OSY GATE VALVE				
		BZ	BRAZED																	BFV	BUTTERFLY VALVE				
		SV	SOLVENT WELD																	PV	PLUG VALVE				
PIPING SYSTEM JOINING MATERIALS													REMARKS:												
1. PIPE-FLANGE GASKET MATERIALS: SUITABLE FOR CHEMICAL AND THERMAL CONDITIONS OF PIPING SYSTEM CONTENTS.													(1) FITTING MATERIAL SHALL MATCH PIPING MATERIAL (EXCEPTION: MI FITTINGS SHALL BE USED FOR BS PIPING WHERE INDICATED).												
2. PIPE FLANGE GASKETS: ASME B16.21, NONMETALLIC, FLAT, ASBESTOS-FREE, 1/8IN MAXIMUM THICKNESS UNLESS SPECIFIED OTHERWISE.													(2) PRESS. CLASS LISTED IS MIN. REQUIRED. PROVIDE GREATER PRESS. CLASS VALVE AND PIPE SYSTEM IF PRESS. CLASS INDICATED IS NOT AVAILABLE FOR GIVEN VALVE AND PIPE TYPE.												
A. FULL-FACE TYPE: FOR FLAT-FACE, CLASS 125, CAST-IRON AND CAST-BRONZE FLANGES.													(3) FLANGES SHALL BE RAISED FACE WITH SPOT FACED BOLT HOLES.												
B. NARROW-FACE TYPE: FOR RAISED-FACE, CLASS 250, CAST-IRON AND STEEL FLANGES.																									
3. FLANGE BOLTS AND NUTS: ASME B18.2.1, CARBON STEEL, UNLESS OTHERWISE INDICATED.																									
4. PLASTIC, PIPE-FLANGE GASKET, BOLTS, AND NUTS: TYPE AND MATERIAL RECOMMENDED BY PIPING SYSTEM MANUFACTURER, UNLESS OTHERWISE INDICATED.																									
5. SOLDER FILLER METALS: ASTM B 32, LEAD-FREE ALLOYS. INCLUDE WATER-FLUSHABLE FLUX ACCORDING TO ASTM B 813.																									
6. GENERAL DUTY BRAZING FILLER METALS: AWS A5.8, BCUF SERIES, COPPER-PHOSPHORUS ALLOYS UNLESS OTHERWISE INDICATED.																									
7. REFRIGERANT PIPING BRAZING FILLER METALS: AWS A5.8, BAG1, SILVER ALLOY UNLESS OTHERWISE INDICATED.																									
8. WELDING FILLER METALS: AWS D10.12 FOR WELDING MATERIALS APPROPRIATE FOR WALL THICKNESS AND CHEMICAL ANALYSIS OF STEEL PIPE.																									

FAN COIL UNIT (FCU) SCHEDULE																																
MARK	MANUFACTURER, MODEL NUMBER	TYPE	AIR FLOW (CFM)		(2) ESP (IN WC)	FAN MOTOR		COOLING CAPACITY								HEATING CAPACITY												ACCESSORIES	WEIGHT (LB)	LOCATION	REMARKS	
			SUPPLY	OUTDOOR		POWER (HP)	VOLTS / PH	EAT (°F)		CAPACITY (MBH)		MEDIA TYPE	ROWS	SST (°F)	SUPERHEAT (°F)	EAT (°F)	CAPACITY (MBH)	MEDIA TYPE	MEDIA FLOW RATE		EWT (°F)	LWT (°F)	(KW)	STAGES	VOLTS/PH							
								DB	WB	TOTAL	SENS.								(GPM)	(LB/H)												
FCU-B1	ENVIRO-TEC, HPP14	CAB	1,200	0	0.65	(2) 1/4	115 / 1	75.0	63.0	34.2	26.7	R-410A	4	45	10	70	46.1	30% PG	4.5	-	140	120	-	-	-	-	-	-	1	218	1055	(1)(2)
FCU-D1	AAON, H3-ARB	CAB	600	0	0.5	1.1	460 / 3	81.1	71.7	37.6	18.6	R-410A	6	45	10	55	23.9	ELC	-	-	-	-	7	SCR	460 / 3	1	428	1097	(2)(3)(4)			
FCU-D2	AAON, H3-ARB	CAB	600	0	0.5	1.1	460 / 3	81.1	71.7	37.6	18.6	R-410A	6	45	10	55	23.9	ELC	-	-	-	-	7	SCR	460 / 3	1	428	1098	(2)(3)(4)			
TYPE			ACCESSORIES																													
V	VERTICAL	R RECESSED	1		DISCONNECT SWITCH								6	FRESH AIR DAMPER																		
H	HORIZONTAL	AT ANGLE TOP	2		TAMPER PROOF ACCESS DOOR FASTENERS								7	FRESH AIR WALL BOX																		
LP	LOW PROFILE	SR SEMI-RECESSED	3		LEVELING FEET								8	FACTORY MOUNTED PIPING PACKAGE																		
CON	CONCEALED	CAB CABINET	4		SUB-BASE (FOR SPECIFIED MOUNTING HEIGHT)								9	MANUAL THREE SPEED FAN CONTROL SWITCH																		
DU	DUCTED		5		FALSE BACK								10	1/2" WIRE MESH SCREEN ON INLET & OUTLET																		
REMARKS:																																
(1) HEATING COIL SELECTION FOR 30% PG PROPYLENE GLYCOL.																																
(2) PROVIDE DIRECT DRIVE FANS WITH ECM MOTOR.																																
(3) PROVIDE MODULATING HOT GAS REHEAT (MHGR).																																
(4) SINGLE POINT POWER NON-FUSED DISCONNECT.																																

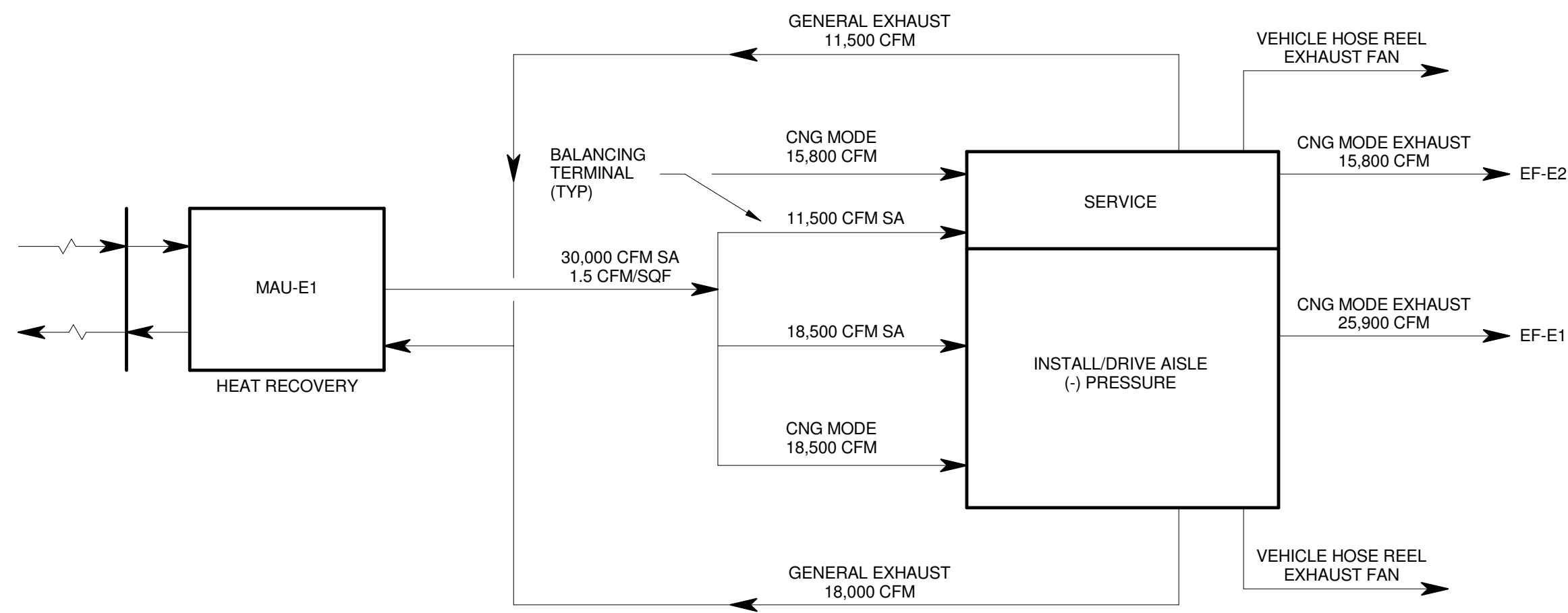
RADIANT FLOOR HEATING ZONE (RZ) SCHEDULE													
ZONE	MANIFOLD	ZONE TUBE SIZE (IN)	TUBE DISTANCE ON CENTER (IN)	WATER TEMP DROP (°F)	TOTAL ZONE AREA (FT²)	UNIT HEATING LOAD (BTU/H/°F)	TOTAL ZONE LOAD (MBH)	MAXIMUM LOOP LENGTH (FT)	NUMBER OF LOOPS/FLOW PER LOOP (GPM)	TOTAL ZONE FLOW (GPM)	TOTAL LOOP HEAD PRESSURE (FT H2O)	ASSOCIATED PUMP	REMARKS
A1	-	5/8	12	15	252	24.2	6.098		1	0.8	3.3	HWP-3/4	(1)
A2/A8	M-1	5/8	12	15	10000	24.2	24.2	4	3.6	10.5	HWP-3/4		
A3	-	5/8	12	15	300	24.2	7.368	1	1	5.2	HWP-3/4	(1)	
A4	-	5/8	12	15	133	24.2	3.219	1	0.4	0.6	HWP-3/4	(1)	
A5	-	5/8	12	15	130	24.2	3.146	1	0.4	0.6	HWP-3/4	(1)	
A6	-	5/8	12	15	433	24.2	10.479	1	1.4	12.4	HWP-3/4	(1)	
A7	-	5/8	12	15	287	24.2	6.945	1	0.9	4.2	HWP-3/4	(1)	
A9	M-2	5/8	12	15	1232	24.2	29.814	4	4.3	14	HWP-3/4		
A10	M-3/4	5/8	12	15	6088	24.2	147.333	13	19.5	10.2	HWP-3/4		
A11	M-5	5/8	12	15	526	24.2	12.729	2	1.7	6.5	HWP-3/4		
B1	M-6	5/8	12	15	6275	24.2	151.855	11	20.7	18.3	HWP-3/4		
B2	M-7	5/8	12	15	6386	24.2	154.541	10	20.2	10.2	HWP-3/4		
B3	M-8	5/8	12	15	995	24.2	24.079	3	3.3	14	HWP-3/4		
B4	M-9	5/8	12	15	502	24.2	12.148	2	1.6	5.3	HWP-3/4		
B5	M-10	5/8	12	15	4383	24.2	106.069	11	14.4	10.2	HWP-3/4		
B6	M-11	5/8	12	15	5068	24.2	122.646	10	16.2	5.9	HWP-3/4		
B7	M-12	5/8	12	15	2352	24.2	56.918	8	7.7	9.9	HWP-3/4		
B8	M-13	5/8	12	15	1046	24.2	25.313	4	3.4	8.6	HWP-3/4		
C1	M-14	5/8	12	15	820	24.2	19.844	3	2.8	8.6	HWP-3/4		
C2	M-15	5/8	12	15	4709	24.2	113.598	10	14.9	7	HWP-3/4		
C3	M-16	5/8	12	15	4698	24.2	113.692	10	15.1	7.2	HWP-3/4		
C4	M-17	5/8	12	15	773	24.2	18.707	3	2.2	7.3	HWP-3/4		
C5	M-18	5/8	12	15	828	24.2	20.038	3	2.3	6.1	HWP-3/4		
C6	M-19	5/8	12	15	4656	24.2	112.675	10	15.2	5.1	HWP-3/4		
C7	M-20	5/8	12	15	4286	24.2	112.675	10	15.1	6.2	HWP-3/4		
C8	M-21	5/8	12	15	794	24.2	21.175	3	2.8	7.7	HWP-3/4		
D1	M-22	5/8	12	15	1398	24.2	33.832	5	4.6	6	HWP-3/4		
D2	M-23	5/8	12	15	1735	24.2	41.987	5	5.5	6	HWP-3/4		
D3	M-24	5/8	12	15	940	24.2	20.328	3	2.8	7.7	HWP-3/4		
D4	M-25	5/8	12	15	625	24.2	15.143	2	2	9	HWP-3/4		
D5	M-26	5/8	12	15	4184	24.2	101.253	9	12.8	10.5	HWP-3/4		
D6	M-27	5/8	12	15	938	24.2	20.28	3	2.8	7.7	HWP-3/4		
E1	M-28	5/8	12	15	879	24.2	21.272	3	3	9.9	HWP-3/4		
E2	M-29	5/8	12	15	3860	24.2	93.412	8	12.3	4.4	HWP-3/4		
E3	M-30	5/8	12	15	3964	24.2	95.929	9	12.8	4.7	HWP-3/4		
E4	M-31	5/8	12	15	880	24.2	21.296	3	3	9.9	HWP-3/4		
E5	M-32	5/8	12	15	2048	24.2	49.562	8	7.1	7.7	HWP-3/4		
E6	M-33	5/8	12	15	354	24.2	8.567	2	1.2	4.1	HWP-3/4		
E7	M-34	5/8	12	15	912	24.2	22.07	3	3.2	9.9	HWP-3/4		
E8	M-35	5/8	12	15	2972	24.2	71.922	9	9.4	4.3	HWP-3/4		
E9	M-36	5/8	12	15	2972	24.2	71.922	9	9.3	4.2	HWP-3/4		



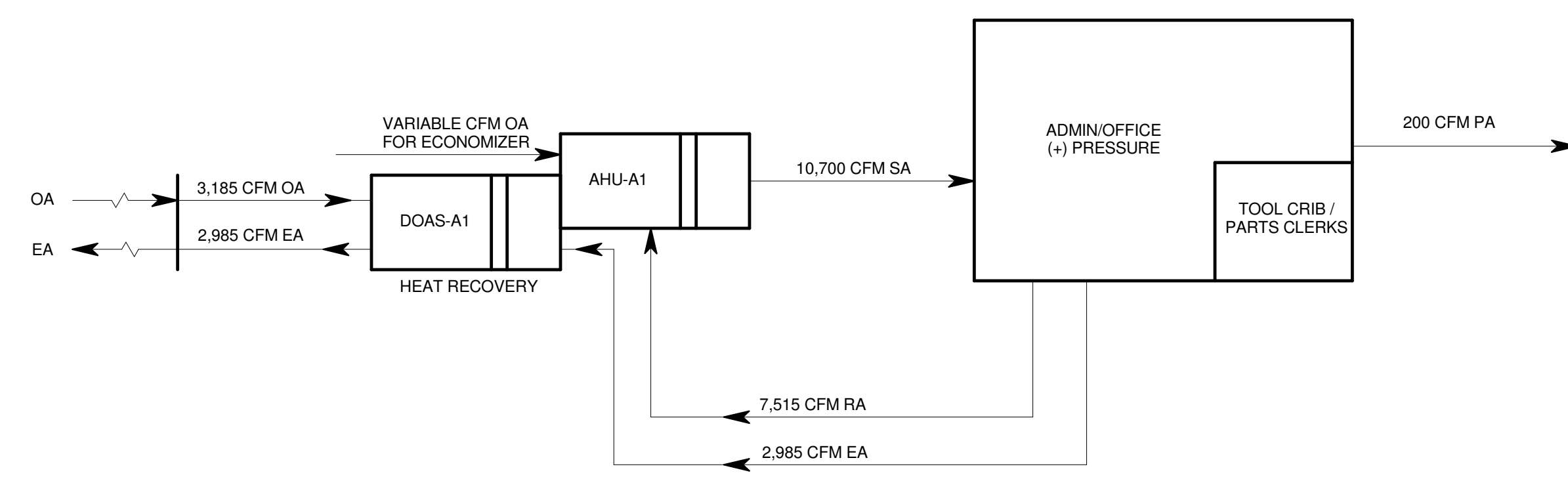
5 WELDING, WASH, PAINT AND BODY AIRFLOW DIAGRAM
NO SCALE



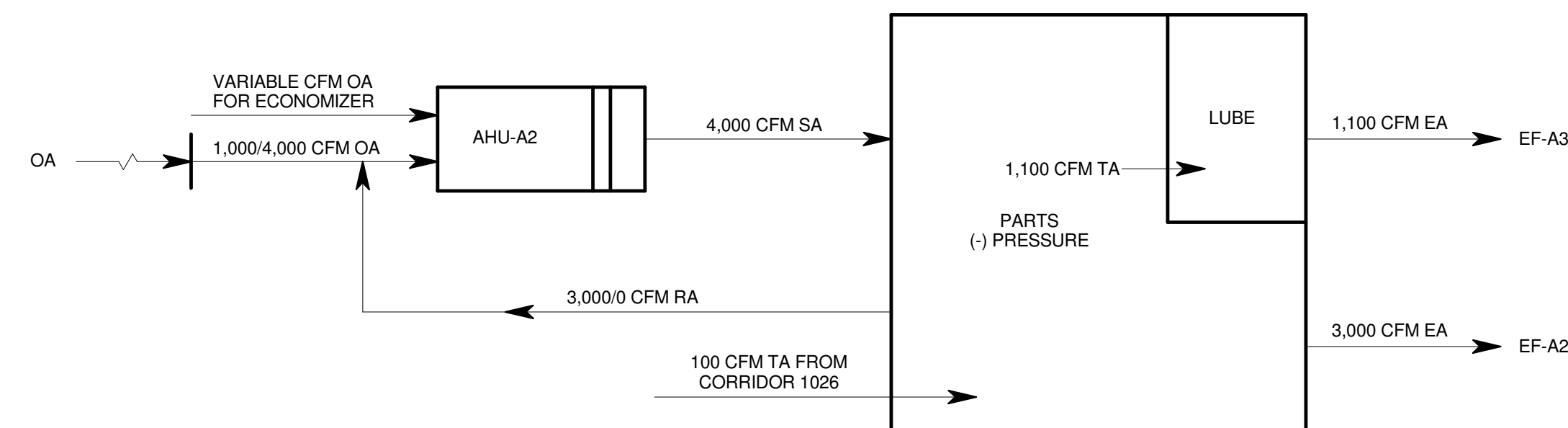
6 HEAVY VEHICLE MAINTENANCE AIRFLOW DIAGRAM
NO SCALE



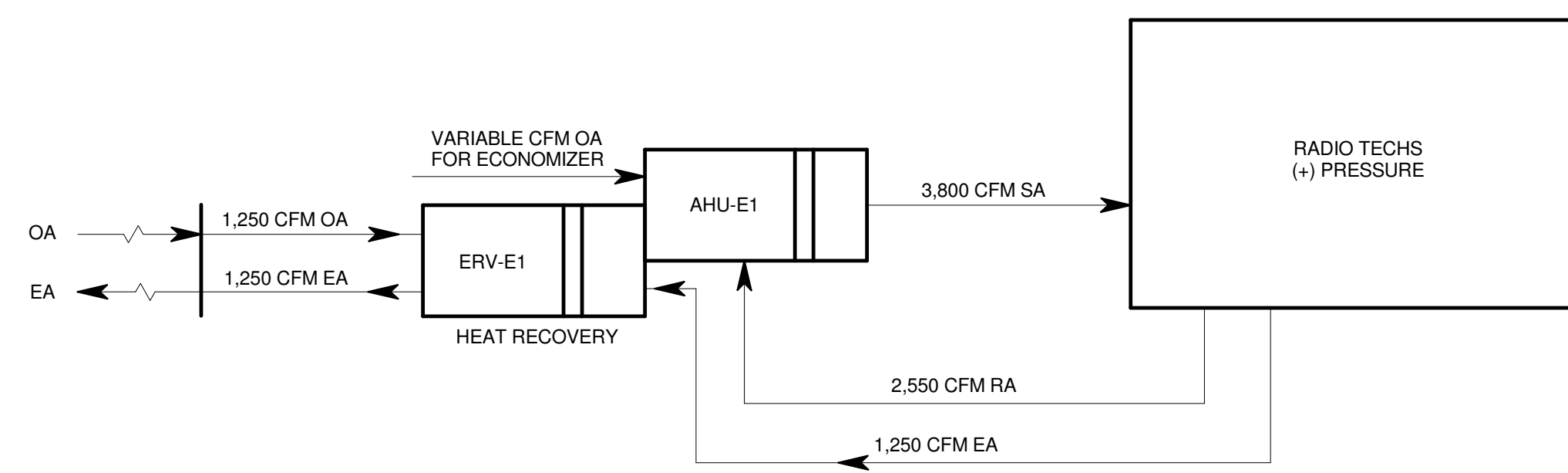
7 RADIO INSTALL - RADIO SERVICE AIRFLOW DIAGRAM
NO SCALE



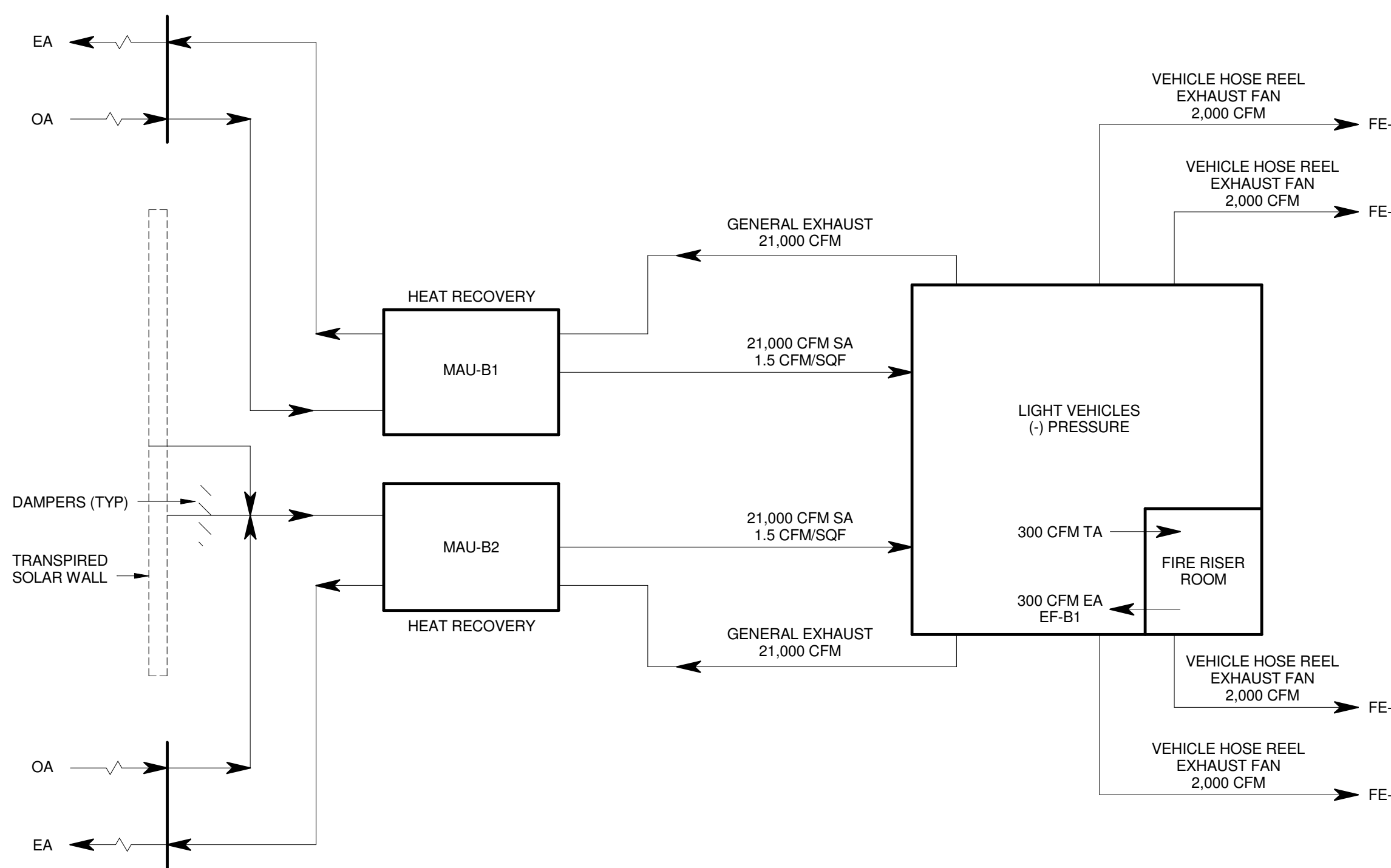
1 ADMIN/OFFICE AIRFLOW DIAGRAM
NO SCALE



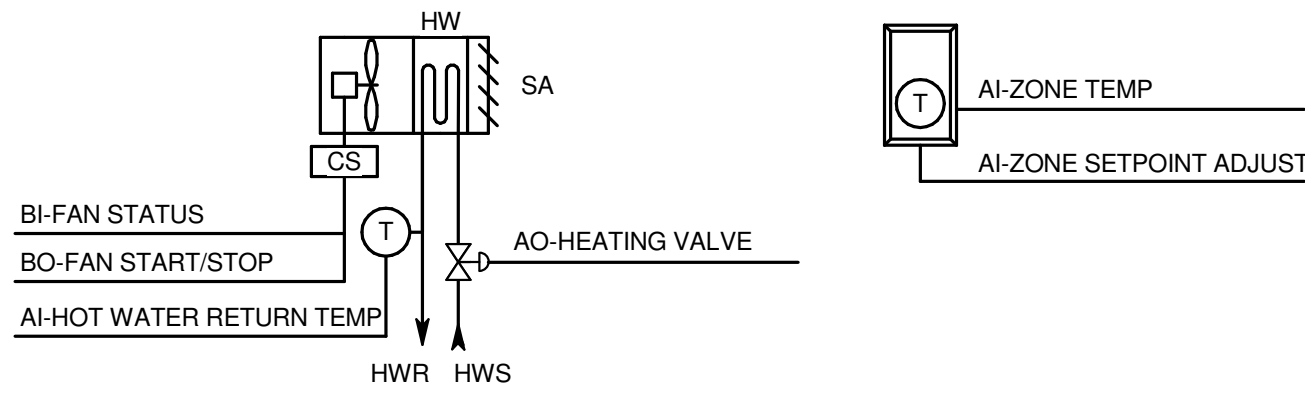
2 PARTS ROOM AIRFLOW DIAGRAM
NO SCALE



3 RADIO TECHS AIRFLOW DIAGRAM
NO SCALE

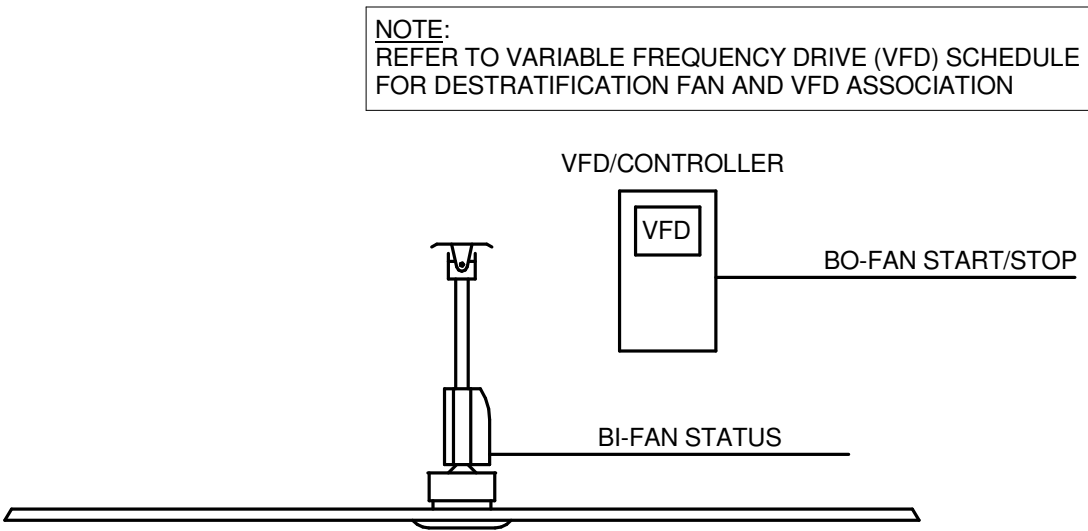


4 LIGHT VEHICLE MAINTENANCE AIRFLOW DIAGRAM
NO SCALE



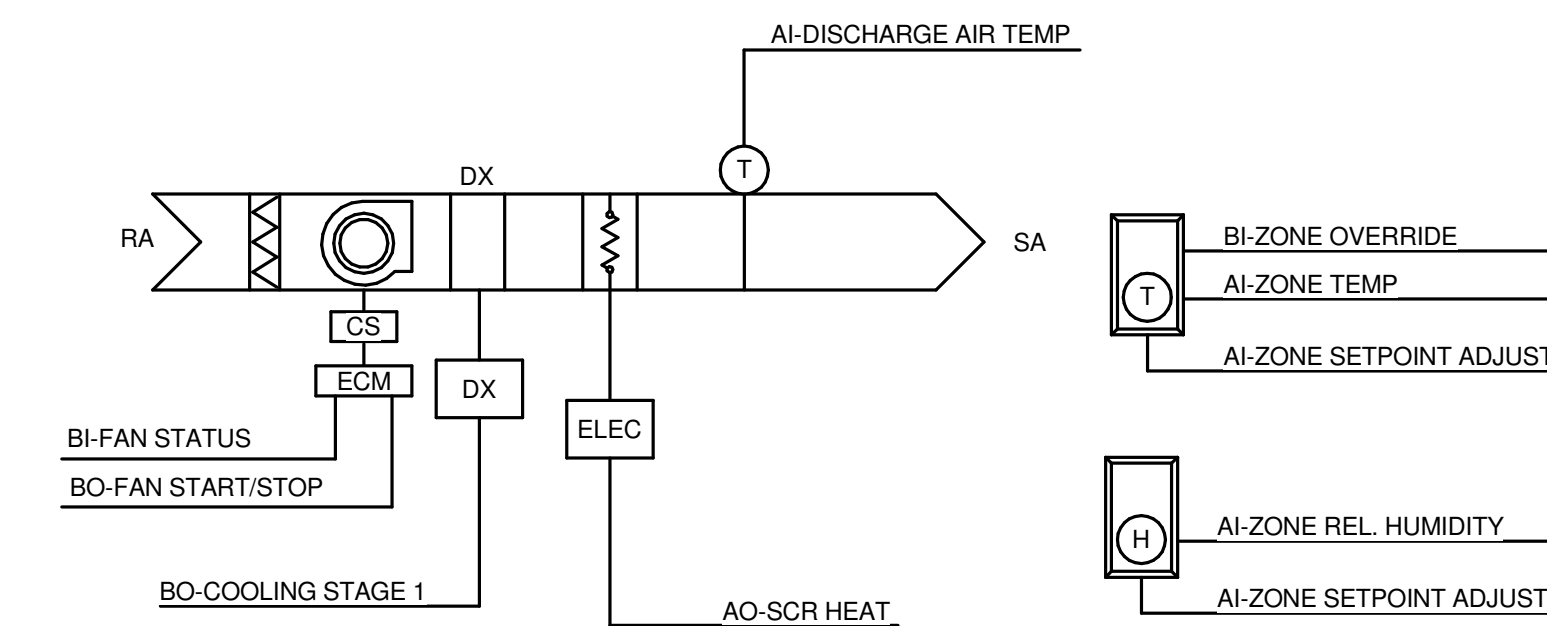
2 HOT WATER UNIT HEATER

NO SCALE



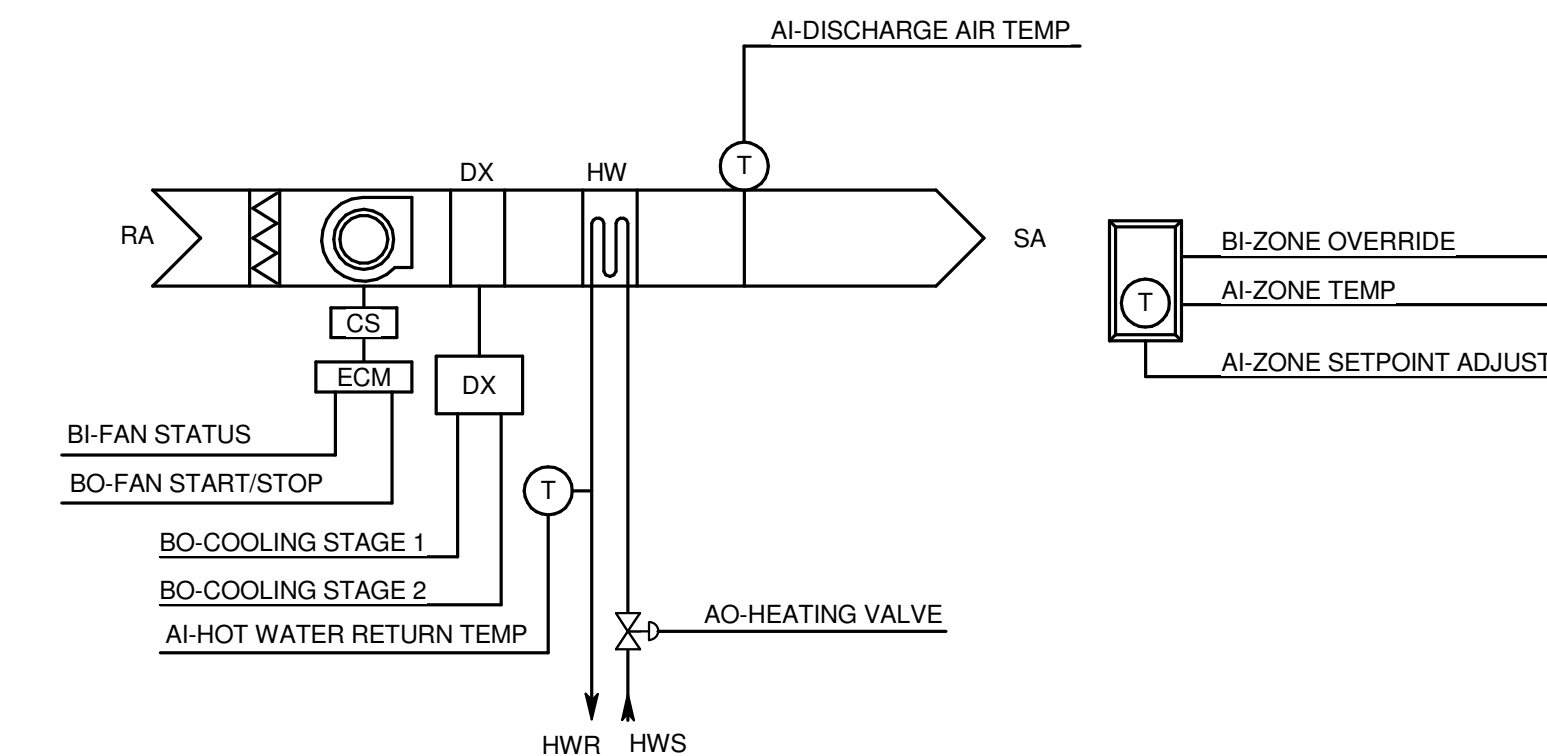
3 DESTRATIFICATION FAN

NO SCALE



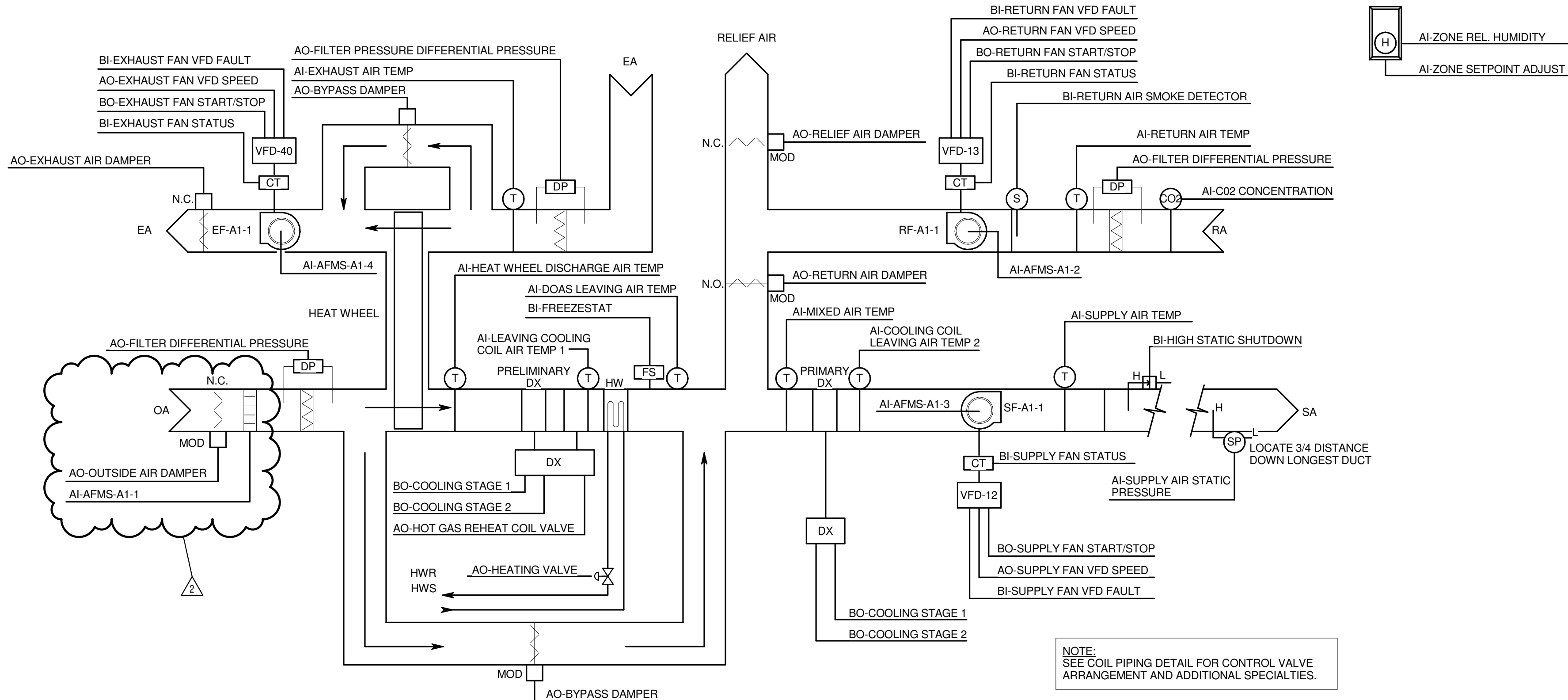
4 FAN COIL UNIT - DX AND ELECTRIC HEATING COILS

NO SCALE



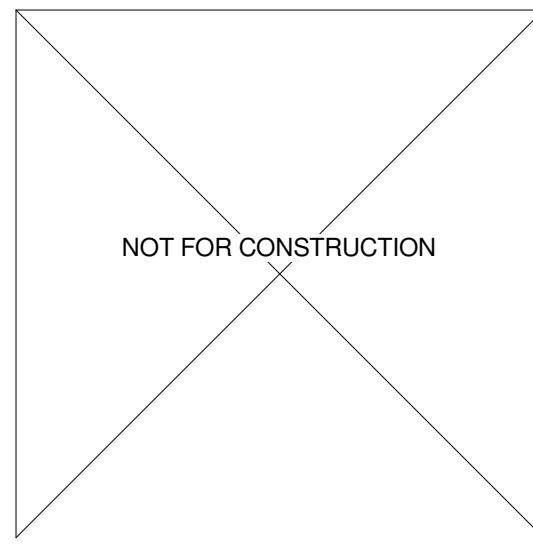
5 FAN COIL UNIT - DX AND HOT WATER COILS

NO SCALE



1 VARIABLE AIR VOLUME AHU - AHU-A1

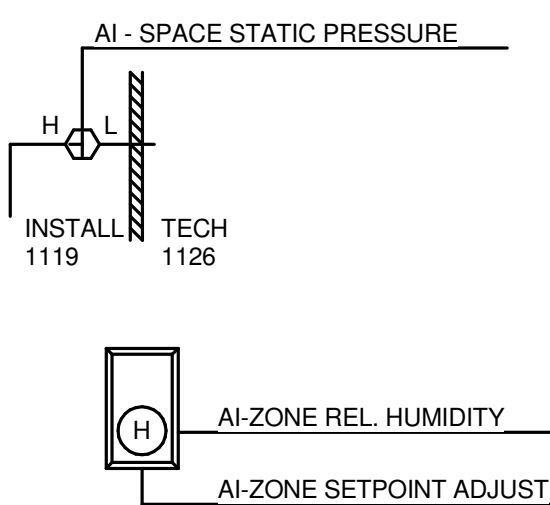
NO SCALE



2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019
No.	REVISION/SUBMISSION	DATE

PROJECT No: 1303500-160264.01

MECHANICAL CONTROLS



1 VARIABLE AIR VOLUME AHU - AHU-E1
NO SCALE

1 VARIABLE AIR VOLUME AHU - AHU-E1
NO SCALE

4141 NAKOOSA TRAIL
MADISON, WISCONSIN 53714

ISSUE FOR BID

NOT FOR CONSTRUCTION

No	REVISION/SUBMISSION	DATE
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PROJECT No: 1303500-160264.01		

MECHANICAL CONTROLS

MECHANICAL CONTROLS

M-803

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FIRE PROTECTION NOTES:

1. PROVIDE A HYDRAULICALLY DESIGNED WET SPRINKLER SYSTEM AT CRITERIA FOR HAZARD CLASSIFICATION SHOWN IN CONFORMANCE WITH THE FOLLOWING CODES AND STANDARDS:
 - A. WISCONSIN BUILDING CODE.
 - B. NFPA - 13, (2010), NOT THE LATEST PREVAILING EDITION
2. DESIGN REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

USE AREA/DENSITY METHOD TO DETERMINE WATER DEMAND REQUIREMENTS. PROVIDE VALVED OUTLETS TO DRAIN ALL PIPING. EXTEND DRAIN PIPING TO EXTERIOR.

PROVIDE SUPERVISORY SWITCHES ON ALL ISOLATION VALVES INSTALLED IN CIRCUITS TO ANY SPRINKLER.

PROVIDE IDENTIFICATION TAGS ON SPECIFIC COMPONENTS.

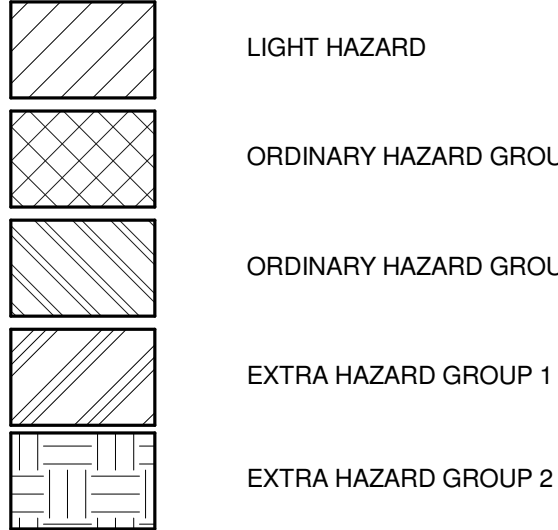
PAINT EXPOSED PIPE. SHOW FLOW DIRECTION AND PIPE IDENTIFICATION.

PROVIDE SPLASH BLOCKS FOR DRAINS.

INSTALL EXTENDED SLEEVES AT ALL WALL PENETRATIONS.

FPE STAMP ON ALL SUBMITTALS.

FIRE PROTECTION HATCH PATTERN LEGEND:



NOTE TO BIDDERS:

QUALIFIED CONTRACTORS SHALL INSTALL BOTH FIRE SUPPRESSION AND FIRE DETECTION AS AN ALL INCLUSIVE SYSTEM

WATER SUPPLY FLOW BASIS FOR BID:

NOTES:
BASIS FOR BID SHOWN, NOT FOR DESIGN.
FIRE SPRINKLER DESIGN/INSTALLATION CONTRACTOR SHALL CONDUCT WATER FLOW TEST AND USE RESULTS IN HYDRAULIC CALCULATIONS.

PRELIMINARY FIRE TEST FLOW:

LOCATION:	NAKOOSA TRAIL / WALSH ROAD
LOCATION ELAVATION:	24" ABOVE GRADE
STATIC PRESSURE:	90 PSI
RESIDUAL PRESSURE:	46 PSI
FLOWING:	3690 GPM
FLOWING PRESSURE:	66 PSI
TEST DATE:	05/25/2016
MAIN SIZE:	12"

FIRE PROTECTION GENERAL NOTES:

1. ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
2. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC. THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR INSTALLATION OF VARIOUS MATERIALS. EQUIPMENT AND PIPING IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT AND PIPING FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT.
3. ELEVATION OF PIPING INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
4. ACCURATE AND LEGIBLE RECORD DRAWINGS SHALL BE MAINTAINED AT THE JOB SITE AND BE SUBMITTED PRIOR TO FINAL PAYMENT.
5. ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
6. TEMPORARILY PATCH ALL ROOF OPENINGS WATERTIGHT UNTIL FINAL CLOSURE CAN BE MADE.
7. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE ROUTING WITH OWNER PRIOR TO INSTALLATION.
8. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH OWNER & EXISTING OPERATIONS.
9. ALL SPRINKLERS IN ACOUSTICAL CEILINGS SHALL BE LOCATION IN CENTER OF TILE.
10. PROVIDE CONCEALED SPRINKLER HEADS IN ALL FINISHED AREAS.
11. COORDINATE WITH ARCHITECTURAL PLANS FOR CEILINGS TYPES AND HEIGHTS.
12. VISIT THE BUILDING SITE & BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AFFECTING WORKING.
13. IT IS THE INTENT OF THESE DRAWINGS A COMPLETE WORKING SYSTEM PROPERTY DESIGNED & TESTED BY THIS CONTRACTOR AND BE APPROVED BY AHJ & OPERATIONAL UPON COMPLETION OF INSTALLATION.
14. PIPE SIZES INDICATED ARE FOR BIDDING PURPOSES ONLY. FINAL SYSTEM DESIGN, INCLUDING PIPE SIZE, TO BE DETERMINED BY THIS CONTRACTOR.

NFPA-13 HYDRAULIC CALCULATION STANDARD			
HAZARD CLASS	DENSITY GPM/SQ.FT.	AREA OF SPRINKLER OPERATION SQ. FT.	TOTAL HOSE STREAM GPM
LIGHT HAZARD	0.10	1500	100
ORDINARY GROUP 1	0.15	1500	250
ORDINARY HAZARD GROUP 2	20	1500	250
EXTRA HAZARD GROUP1	30	2500	500
EXTRA HAZARD GROUP2	40	2500	500
TIRE STORAGE	39	2600	750

* THE MOST HYDRAULICALLY REMOTE LOCATIONS MUST MEET THE ABOVE REQUIREMENTS.

FIRE PROTECTION ABBREVIATIONS:

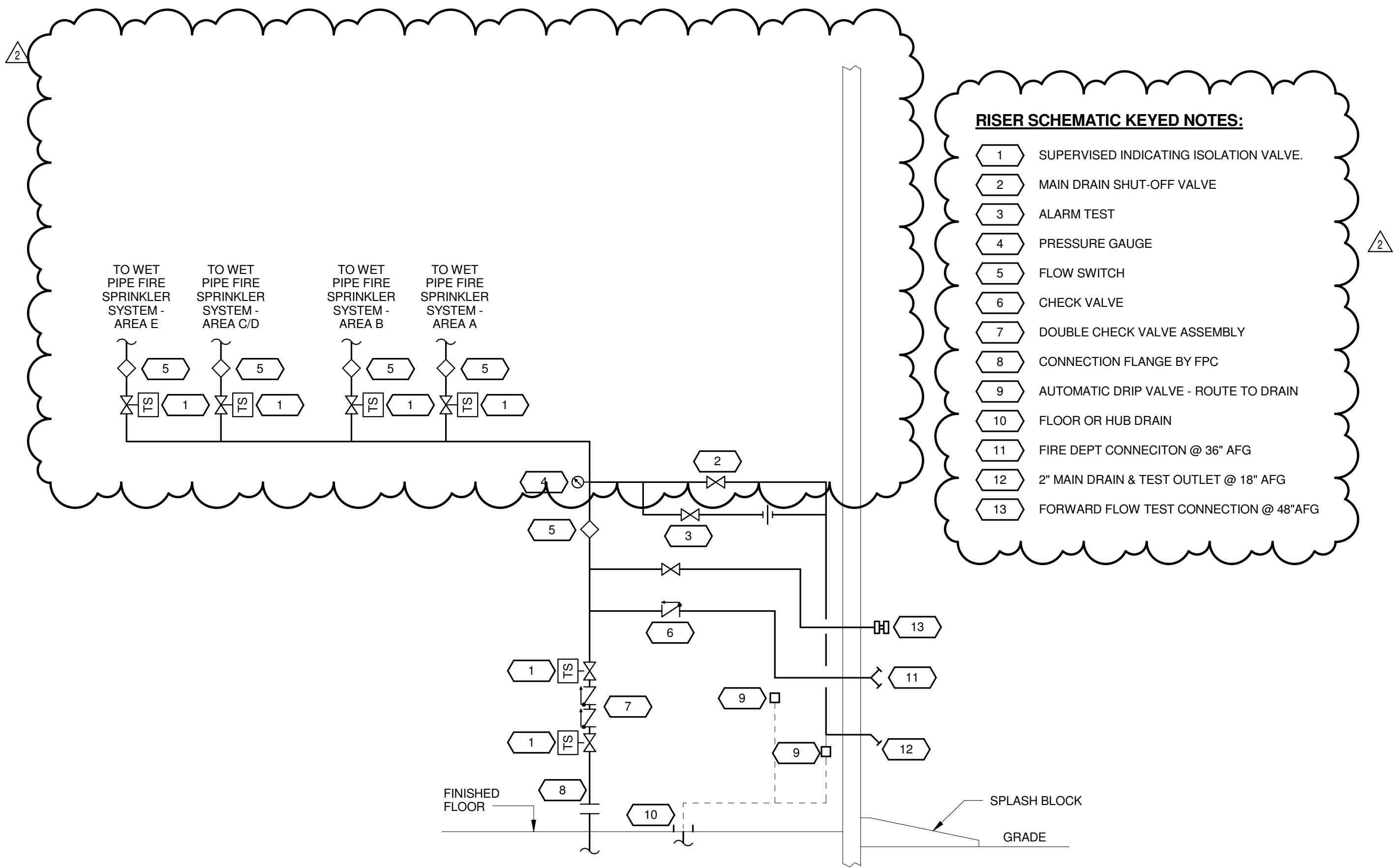
AFF ABOVE FINISHED FLOOR
BPD BACKFLOW PREVENTION DEVICE
CW COLD WATER
DCVA DOUBLE CHECK VALVE ASSEMBLY
DI DUCTILE IRON
FDC FIRE DEPARTMENT CONNECTION
FPE PROFESSIONAL FIRE PROTECTION
FP-W ENGINEER WET SPRINKLER MAIN
FP-D ENGINEER DRY SPRINKLER MAIN
TFB TO FLOOR BELOW

FIRE PROTECTION SYMBOLS:

FIRE DEPARTMENT CONNECTION
 ORIFICE
 FLOW SWITCH
 ALARM BELL
 ISOLATION VALVE
 GATE VALVE
 PRESSURE GAUGE
 CHECK VALVE
 VALVE SUPERVISION/TAMPER SWITCH
 STRAINER
 PIPE DROP
 PIPE RISE
 STRAINER

RISER SCHEMATIC KEYED NOTES:

- 1 SUPERVISED INDICATING ISOLATION VALVE.
- 2 MAIN DRAIN SHUT-OFF VALVE
- 3 ALARM TEST
- 4 PRESSURE GAUGE
- 5 FLOW SWITCH
- 6 CHECK VALVE
- 7 DOUBLE CHECK VALVE ASSEMBLY
- 8 CONNECTION FLANGE BY FPC
- 9 AUTOMATIC DRIP VALVE - ROUTE TO DRAIN
- 10 FLOOR OR HUB DRAIN
- 11 FIRE DEPT CONNCTION @ 36" AFG
- 12 2" MAIN DRAIN & TEST OUTLET @ 18" AFG
- 13 FORWARD FLOW TEST CONNECTION @ 48"AFG



2 WET AND DRY PIPE SPRINKLER RISER SCHEMATIC
12" = 1'-0"

Stantec

1600 WILSON BLVD.
SUITE 360
ARLINGTON, VA 22209
571-290-7679

Mead & Hunt

Mead & Hunt, Inc.
2440 Derring Way
Middleton, WI 53562
phone: 608-273-6360
meadhunt.com

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NAKOOSA TRAIL
FLEET/FIRE/RADIO SHOP
FACILITY

4141 NAKOOSA TRAIL
MADISON, WISCONSIN 53714

ISSUE FOR BID

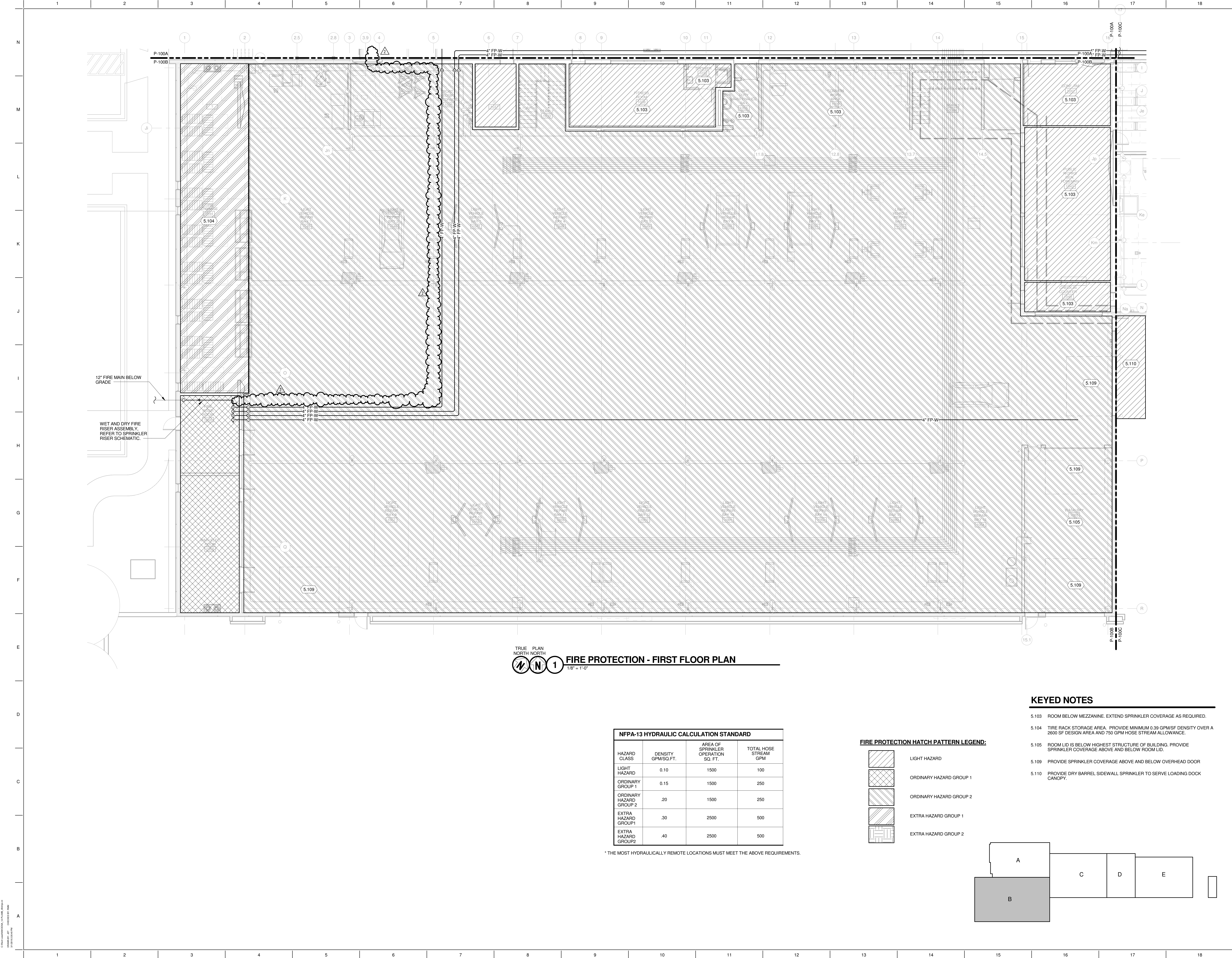
NOT FOR CONSTRUCTION

2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019

No REVISION/SUBMISSION DATE
PROJECT No: 1303500-160264.01

FIRE PROTECTION
SYMBOLS, ABBREVIATIONS,
NOTES AND DETAILS

F-001



Stantec
1600 WILSON BLVD.
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MADISON, WISCONSIN 53714
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NOT FOR CONSTRUCTION		
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No.	REVISION/SUBMISSION	DATE
PROJECT No: 1303500-160264.01		

LEVEL 1 FLOOR PLAN -
FIRE PROTECTION - AREA B

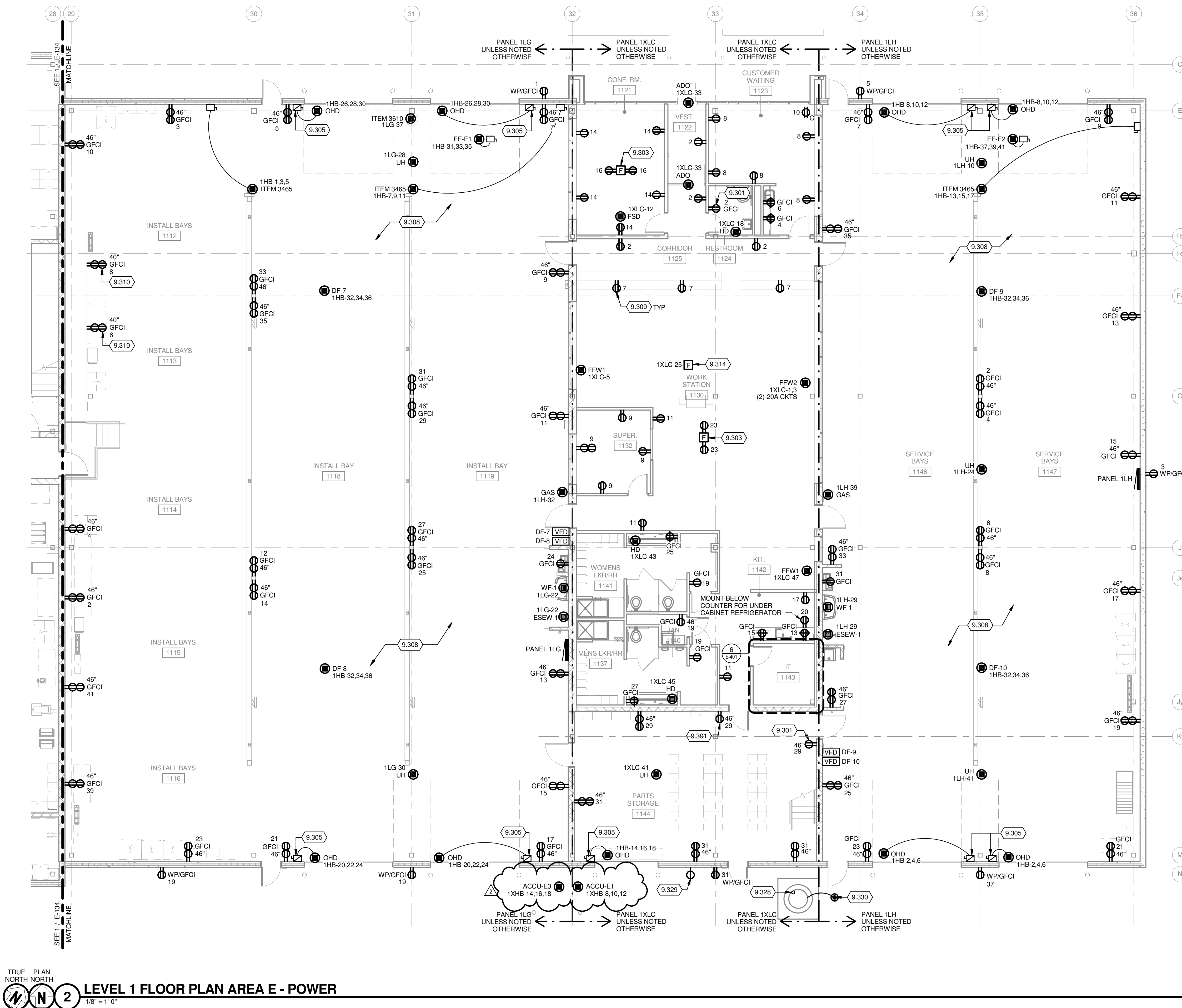
F-101B

POWER GENERAL NOTES:

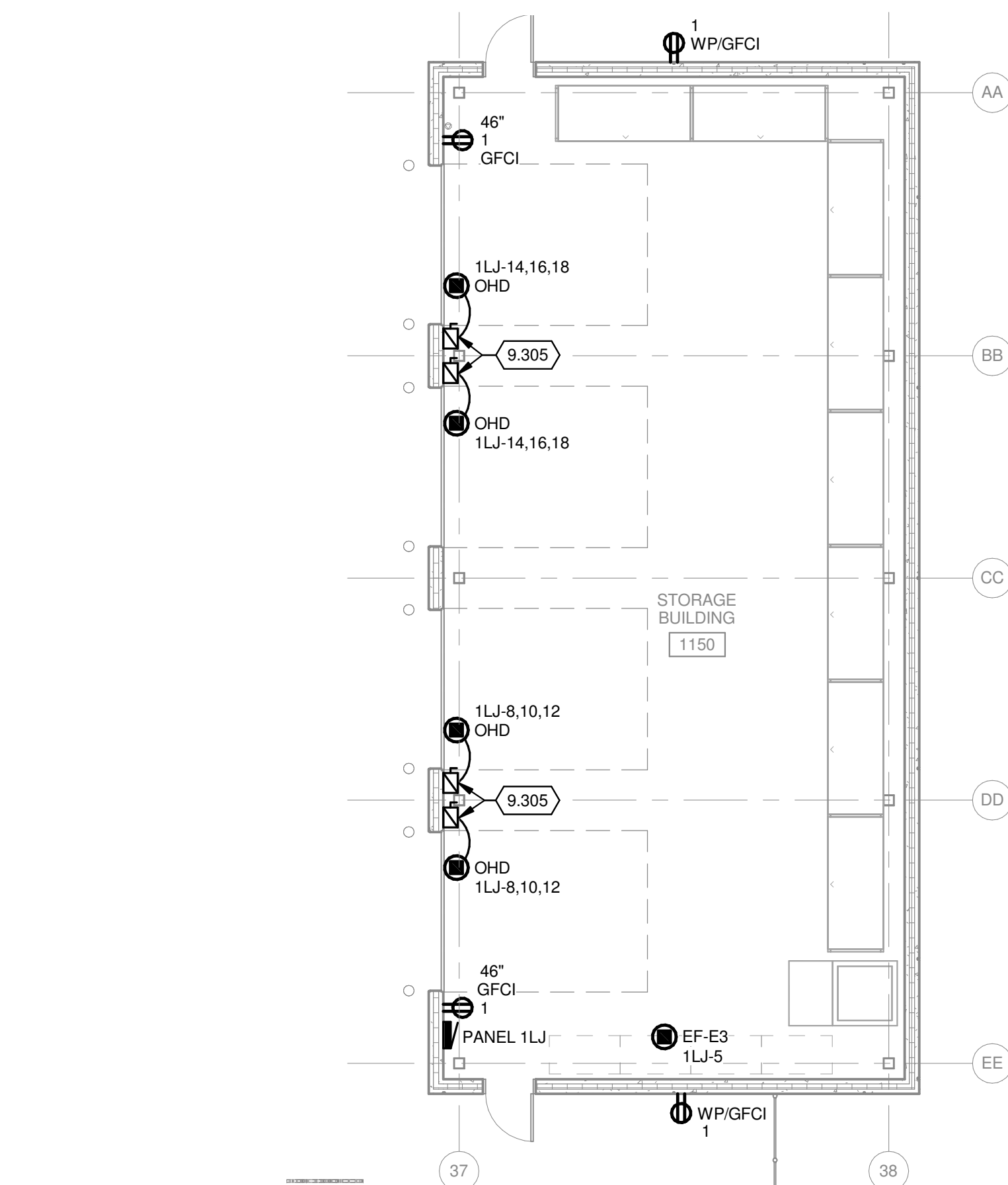
1. REFER TO QS-SERIES DRAWINGS FOR EQUIPMENT LOCATIONS. COORDINATE WITH ALL EQUIPMENT LOCATIONS PRIOR TO INSTALLATION.
2. COORDINATE CONDUIT ROUTING ON COLUMNS WITH EQUIPMENT LOCATIONS PRIOR TO INSTALLATION. ROUTE CONDUIT WITHIN WEBBING WHERE POSSIBLE AND PROVIDE LB FITTINGS TO GET OUT TO DEVICES MOUNTED ON FLANGES.
3. ELECTRICAL CONTRACTOR SHALL CAREFULLY ESTABLISH REQUIRED CONDUCTOR / CONDUIT ROUTES PRIOR TO MATERIAL ORDERING TO ACCOMMODATE CODE REQUIRED VOLTAGE DROP LIMITATIONS ON DISTANCES GREATER THAN 100'-0".
4. REFER TO SHEET E-701 FOR ROOM NUMBERS ASSOCIATED WITH PANELBOARDS.

KEYED NOTES

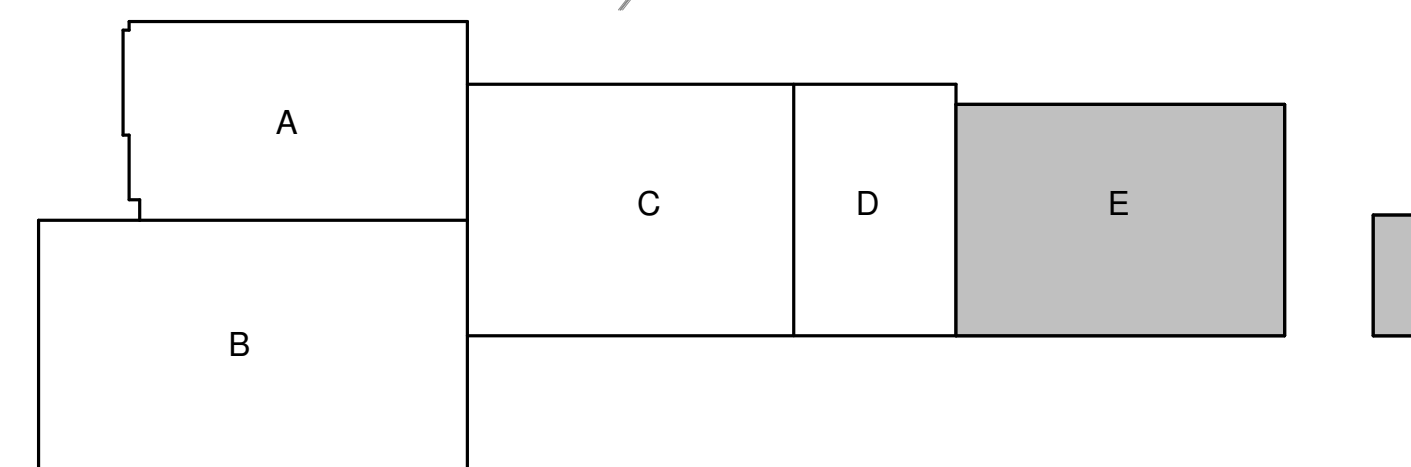
- 9.301 INSTALL DUPLEX RECEPTACLE IN CONJUNCTION WITH LIGHTING CONTROL DEVICE. PROVIDE VOLTAGE DIVIDER AS REQUIRED. PROVIDE A SINGLE COMBINATION FACEPLATE.
- 9.303 PROVIDE WIREMOLD RFB4 FLOOR BOX OR EQUAL. DATA OUTLETS SHALL BE INSTALLED IN LARGER CAPACITY COMPARTMENTS OF FLOOR BOX. COORDINATE LOCATION OF FLOOR BOX WITH ARCHITECT AND GENERAL CONTRACTOR PRIOR TO INSTALLATION. COORDINATE FLANGE AND COVER COLOR WITH ARCHITECT PRIOR TO ORDERING.
- 9.305 MOUNT DISCONNECT SWITCH ASSOCIATED WITH OVERHEAD DOOR AT 4'-0" AFF.
- 9.308 ALL RACEWAYS THROUGHOUT THIS AREA SHALL BE LOCATED SO THAT THEY ARE MORE THAN 18" ABOVE FINISHED FLOOR AND MORE THAN 18" BELOW BOTTOM OF CEILING. WHERE THIS IS NOT POSSIBLE, RACEWAYS SHALL BE INSTALLED AND RATED FOR CLASS 1, DIVISION 2 IN ACCORDANCE WITH NEC ARTICLE 501.
- 9.309 DUPLEX RECEPTACLES SHALL BE INSTALLED IN WALL BELOW COUNTER.
- 9.310 MOUNT DOUBLE DUPLEX RECEPTACLE TO VERTICAL RAILING SUPPORTS. BRANCH CIRCUIT ASSOCIATED WITH THESE RECEPTACLES SHALL BE ROUTED UNDERNEATH RAMP AND UP VERTICAL SUPPORTS TO SURFACE MOUNTED BOX.
- 9.314 REFER TO DETAIL 5/E-502 FOR FURNITURE FEED REQUIREMENTS.
- 9.328 PROVIDE 2" EMPTY CONDUIT BETWEEN BASE OF TOWER AND PANEL 1XL. CONDUIT SHALL BE STUBBED UP AND CAPPED 6" ABOVE CONCRETE PAD BENEATH FOOTPRINT OF TOWER. COORDINATE INSTALLATION WITH TOWER CONTRACTOR AND GENERAL CONTRACTOR.
- 9.329 COORDINATE NEMA CONFIGURATION OF GENERATOR PLUG WITH OWNER PRIOR TO INSTALLATION. FOR BIDDING PURPOSES, ASSUME 150A, 208V, 3PH, 4W.
- 9.330 BOND #3/0 AWG COPPER CONDUCTOR BETWEEN TOWER AND GROUND ROD. PROVIDE #10 AWG COPPER CONDUCTOR BETWEEN GROUND ROD AND GROUND BAR IN MEZZANINE OF AREA E. PROVIDE CONDUIT AS REQUIRED PER SPECIFICATION.



TRUE PLAN NORTH NORTH
2 LEVEL 1 FLOOR PLAN AREA E - POWER
1/8" = 1'-0"



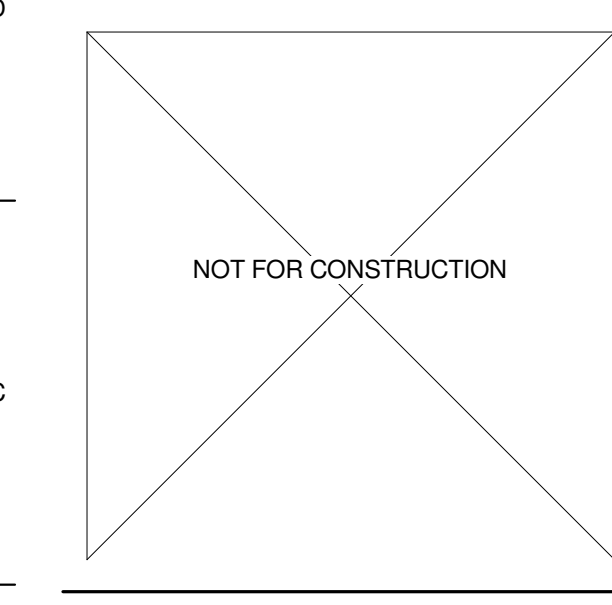
TRUE PLAN NORTH NORTH
1 LEVEL 1 FLOOR PLAN AREA E STORAGE - POWER
1/8" = 1'-0"
NOTE: ALL WORK ASSOCIATED WITH STORAGE BUILDING SHALL BE BID AS ALTERNATE NO. 1



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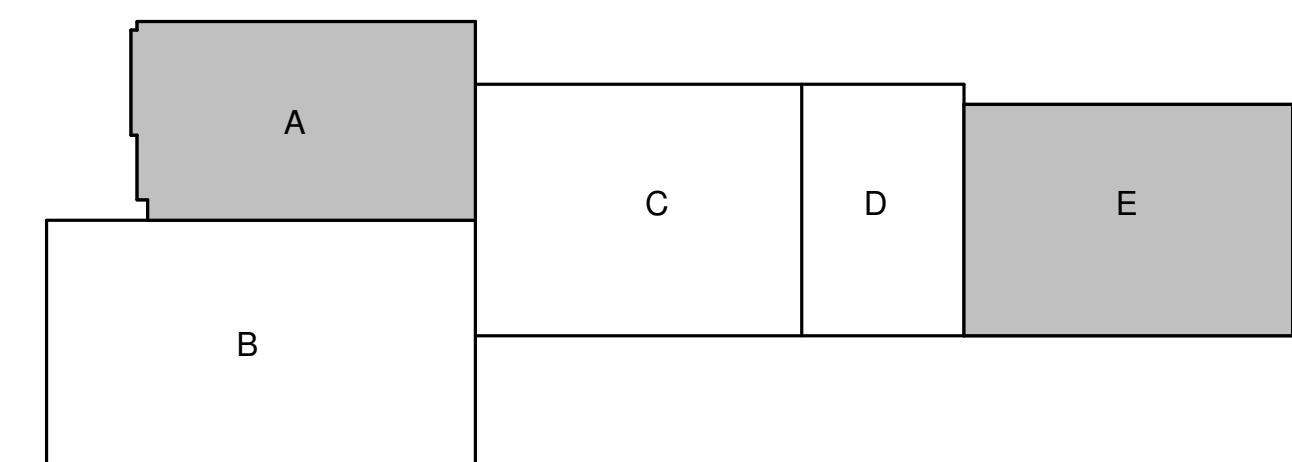
REVISION	SUBMISSION	DATE
2	ADDENDUM 2	03/05/2019
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PROJECT No: 1303500-160264.01		

LEVEL 1 FLOOR PLAN AREA E - POWER

E-135



E-136



N
M
L
K
J
I
H
G
F
E
D
C
B
A

ELECTRICAL EQUIPMENT WIRING SCHEDULE																						
STARTER/DISCONNECT TYPE:										KEY:												
MX - MANUAL MOTOR SWITCH			2SP - 2 SPEED, 2 WINDING			ECB - ENCLOSED CIRCUIT BREAKER				MFR - MANUFACTURER												
MS - MANUAL MOTOR STARTER (W/OVERLOADS)			SW - 2 SPEED, 1 WINDING							F - FUSED												
YD - WYE- DELTA			CS - COMBINATION MAGNETIC CONTROLLER							NF - NON-FUSED												
FV - FULL VOLTAGE			FS - FUSED SWITCH							EC - ELECTRICAL CONTRACTOR												
SS - REDUCED VOLTAGE, SOLID STATE			VFD - VARIABLE FREQUENCY DRIVE							MC - MECHANICAL CONTRACTOR												
RE - REVERSING			RVS - REDUCED VOLTAGE (MAGNETIC)							PC - PLUMBING CONTRACTOR												
EQUIPMENT	EQUIPMENT DESCRIPTION	LOCATION	LOAD			EQUIPMENT			BRANCH WIRING				STARTER			DISCONNECT TYPE AND RATING				KEYED NOTE		
			KW	HP	FLA (AMPS)	MCA (AMPS)	MOCF (AMPS)	VOLTS	PHASE	NO.	SIZE	GND.	C	TYPE	NEMA SIZE	FURNISHED/ INSTALLED BY	TYPE	FRAME SIZE	NEMA ENCLOSURE		FURNISHED/ INSTALLED BY	
ACCU-A1	AIR COOLED CONDENSING UNIT	ROOF	-	-	-	32.0A	40A	480	3	3	8	10	1"	-	-	MFR	NF	60A	NEMA 3R	EC / EC	-	
ACCU-A2	AIR COOLED CONDENSING UNIT	ROOF	-	-	-	32.0A	40A	480	3	3	8	10	1"	-	-	MFR	NF	60A	NEMA 3R	EC / EC	-	
ACCU-B1	AIR COOLED CONDENSING UNIT	GRADE	-	-	-	14.0A	20A	208	3	3	12	12	3/4"	-	-	MFR	NF	30A	NEMA 3R	EC / EC	-	
ACCU-B2	AIR COOLED CONDENSING UNIT	MEZZ	-	-	-	20.0A	20A	208	1	2	12	12	3/4"	-	-	MFR	NF	30A	NEMA 1	EC / EC	-	
ACCU-D1	AIR COOLED CONDENSING UNIT	MEZZ	-	-	-	8.0A	15A	208	1	2	12	12	3/4"	-	-	MFR	NF	30A	NEMA 1	EC / EC	-	
ACCU-D2	AIR COOLED CONDENSING UNIT	MEZZ	-	-	-	11.0A	15A	480	3	3	12	12	3/4"	-	-	MFR	NF	30A	NEMA 1	EC / EC	-	
ACCU-D3	AIR COOLED CONDENSING UNIT	MEZZ	-	-	-	1.0A	15A	480	3	3	12	12	3/4"	-	-	MFR	NF	30A	NEMA 1	EC / EC	-	
ACCU-E1	AIR COOLED CONDENSING UNIT	GRADE	-	-	-	12.0A	15A	480	3	3	12	12	3/4"	-	-	MFR	NF	30A	NEMA 1	EC / EC	-	
ACCU-E2	AIR COOLED CONDENSING UNIT	MEZZ	-	-	-	13.0A	20A	208	1	2	12	12	3/4"	-	-	MFR	NF	30A	NEMA 1	EC / EC	-	
ACCU-E3	AIR COOLED CONDENSING UNIT	GRADE	-	-	-	12.0A	15A	480	3	3	12	12	3/4"	-	-	MFR	NF	30A	NEMA 1	EC / EC	-	
ADO	AUTO DOOR OPERATOR	VARIES	-	-	-	5.0A	-	120	1	2	12	12	3/4"	-	-	DIRECT	-	-	-	-	-	
ACP	ACCESS CONTROL PANEL	VARIES	-	-	-	16.0A	-	120	1	2	12	12	3/4"	-	-	DIRECT	-	-	-	-	-	
CP-1	CIRCULATING PUMP	MEZZ	-	-	-	0.5A	-	120	1	2	12	12	3/4"	-	-	-	MS	30A	NEMA 1	EC / EC	7	
CP-2	CIRCULATING PUMP	MEZZ	-	-	-	0.4A	-	120	1	2	12	12	3/4"	-	-	-	MS	30A	NEMA 1	EC / EC	7	
CP-3	CIRCULATING PUMP	MEZZ	-	-	-	0.4A	-	120	1	2	12	12	3/4"	-	-	-	MS	30A	NEMA 1	EC / EC	7	
DF-1	DESTRAT FAN	1025	-	3/4 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MC / EC	F	30A	NEMA 1	EC / EC	9	
DF-2	DESTRAT FAN	1055	-	3/4 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MC / EC	F	30A	NEMA 1	EC / EC	9	
DF-3	DESTRAT FAN	1055	-	3/4 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MC / EC	F	30A	NEMA 1	EC / EC	9	
DF-4	DESTRAT FAN	1055	-	3/4 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MC / EC	F	30A	NEMA 1	EC / EC	9	
DF-5	DESTRAT FAN	1084	-	3/4 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MC / EC	F	30A	NEMA 1	EC / EC	9	
DF-6	DESTRAT FAN	1084	-	3/4 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MC / EC	F	30A	NEMA 1	EC / EC	9	
DF-7	DESTRAT FAN	1147	-	3/4 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MC / EC	F	30A	NEMA 1	EC / EC	9	
DF-8	DESTRAT FAN	1147	-	3/4 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MC / EC	F	30A	NEMA 1	EC / EC	9	
DF-9	DESTRAT FAN	1150	-	3/4 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MC / EC	F	30A	NEMA 1	EC / EC	9	
DF-10	DESTRAT FAN	1150	-	3/4 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MC / EC	F	30A	NEMA 1	EC / EC	9	
EF-A1	EXHAUST FAN	1026	-	3/4 HP	-	-	-	120	1	2	12	12	3/4"	-	-	MFR	-	-	-	-	-	
EF-A1-1	AIR HANDLING UNIT	MEZZ	-	3 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MC / EC	-	-	-	-	-	
EF-A2	EXHAUST FAN	1025	-	1/2 HP	-	-	-	120	1	2	12	12	3/4"	-	-	MFR	-	-	-	-	-	
EF-B1	EXHAUST FAN	1054	-	1/4 HP	-	-	-	120	1	2	12	12	3/4"	-	-	MFR	-	-	-	-	-	
EF-D1	EXHAUST FAN	1099	-	FRAC	-	-	-	120	1	2	12	12	3/4"	-	-	MFR	-	-	-	-	-	
EF-D2	EXHAUST FAN	1084	-	1/4 HP	-	-	-	120	1	2	12	12	3/4"	-	-	MFR	-	-	-	-	-	
EF-E1	EXHAUST FAN	1119	-	5 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MFR	NF	30A	NEMA 1	EC / EC	11	
EF-E2	EXHAUST FAN	1147	-	2 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MFR	NF	30A	NEMA 1	EC / EC	11	
EF-E3	EXHAUST FAN	1150	-	2 HP	-	-	-	480	3	3	12	12	3/4"	VFD	-	MFR	NF	30A	NEMA 1	EC / EC	-	
EF-E1-4	AIR HANDLING UNIT	MEZZ	-	2 HP	-	-	-	480	3	3	12	12	3/4"	-	-	MFR	-	-	-	-	-	
ESP-W-1	EYE WASH	SEE PLANS	-	-	-	2.0A	-	120	1	2	12	12	3/4"	-	-	DIRECT	-	-	-	-	-	
EV	ELECTRIC VEHICLE CHARGING	GRADE	-	-	-	16.0A	-	208	1	2	8	10	1"	-	-	-	-	-	-	-	-	
FCU-B1	FAN COIL UNIT	1055	-	1/2 HP	-	-	-	120	1	2	12	12	3/4"	-	-	MFR	MS	30A	NEMA 1	EC / EC	-	
FCU-D1	FAN COIL UNIT	1097	-	1 HP	-	-	-	480	3	3	12	12	3/4"	-	-	MFR	NF	30A	NEMA 1	EC / EC	-	
FCU-D2	FAN COIL UNIT	1097	-	1 HP	-	-	-	480	3	3	12	12	3/4"	-	-	MFR	NF	30A	NEMA 1	EC / EC	-	
FFW1	FIXED FURNITURE FEED - WALL	SEE PLANS	-	-	-	16.0A	-	120	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	
FFW2	FIXED FURNITURE FEED - WALL	SEE PLANS	-	-	-	(2) - 15A	-	120	1	4	12	12	3/4"	-	-	-	-	-	-	-	-	
FPAIR	FIRE PROT. AIR COMPRESSOR	1054	-	1 HP	-	-	-	208	3	3	12	12	3/4"	CS	-	EC / EC	-	-	-	-	-	
FSD	FLAT SCREEN DISPLY	SEE PLANS	500W	-	-	-	-	120	1	2	12	12	3/4"	-	-	-	5-20R	-	-	-	-	
FUEL	FUEL FARM	EXTERIOR	-	-	-	(3) - 15A	-	120	1	6	8	8	1-1/4"	-	-	-	-	-	-	-	-	
GAS	GAS PANEL	SEE PLANS	-	-	-	10.0A	-	120	1	2	12	12	3/4"	-	-	-	-	-	-	-	-	
GATE	MOTORIZED GATE	SEE PLANS	-	-	-	16.2A	-	208	3	3	8	8	1-1/2"	-	-	MFR	NF	30A	NEMA 3R	EC / EC	15	
GFT-1	GLYCOL FILL TANK	MEZZ	500W	-	-	-	-	120	1	2	12	12	3/4"	-	-	-	MX	30A	NEMA 1	EC / EC	7	
GFT-2	GLYCOL FILL TANK	MEZZ	500W	-	-	-	-	120	1	2	12	12	3/4"	-	-	-	MX	30A	NEMA 1	EC / EC	7	
GWH-1	GAS WATER HEATER	MEZZ	-	-	-	15.0A	-	120	1	2	12	12	3/4"	-	-	-	MX	30A	NEMA 1	EC / EC	7	
GWH-1S	STORAGE TANK	MEZZ	-	-	-	5.0A	-	120	1	2	12	12	3/4"	-	-	-	MX	30A	NEMA 1	EC / EC	7	
GWH-2	GAS WATER HEATER	MEZZ	-	-	-	15.0A	-	120	1	2	12	12	3/4"	-	-	-	MX	30A	NEMA 1	EC / EC	7	
HD	HAND DRYER	SEE PLANS	1500W	-	-	-	-	120	1	2	12	12	3/4"	-	-	DIRECT	-	-	-	-	-	
HWB-1	HOT WATER BOILER	MEZZ	-	-	-	6.3A	-	480	3	3	12	12	3/4"	-	-	-	NF	30A	NEMA 1	EC / EC	-	
HWB-2	HOT WATER BOILER	MEZZ	-	-	-	6.3A	-	480	3	3	12	12	3/4"	-	-	-	NF	30A	NEMA 1	EC / EC	-	
HWP-1	HOT WATER PUMP	MEZZ	-	10 HP	-	-	-	480	3	3	10	10	3/4"	VFD	-	MC / EC	-	-	-	-	-	
HWP-2	HOT WATER PUMP	MEZZ	-	10 HP	-	-	-	480	3	3	10	10	3/4"	VFD	-	MC / EC	-	-	-	-	-	
HWP-3	HOT WATER PUMP																					

Panelboard:				Panel 1HC				480Y/277				Panel Source:				MSBHA			
Bus Ampacity				400 Volts				3				Feed-Thru Lugs				None			
Branch Brkr Space				84 Poles				Phase											
Main Type				MLO				Wires				4							
MCB Amps								Delta/Wye				Wye							
								Mounting				Surface				Sub-Feed Lugs			
								Enclosure				NEMA 1				Sub-Feed Brkr #1			
								SCCR				25 kA				Sub-Feed Brkr #2			
								SE Rated								None			
								Pnl MCA				209 A							
Comments:												SPD							
												Iso Grd							

Panelboard:				Panel 1LG							
225 Volts				208Y/120				Panel Source:			
84 Poles				3				Feed-Thru Lugs			
Main Type				4				MDPLB			
MCB Amps				Wires				None			
				Delta-Wye				None			
				Mounting				None			
				Enclosure				None			
				SCCR				None			
				SE Rated				None			
				Pnl MCA				None			
				72 A				None			
Comments:				SPD							
				Iso Grd							

Panelboard:				Panel 1HB				480Y/277				Panel Source:				MSBHA			
Bus Ampacity				250 Volts								Feed-Thru Lugs				None			
Branch Brkr Space				84 Poles				3											
Main Type				MLO				Wires				4							
MCB Amps								Delta/Wye				Wye							
				Mounting				Surface				Sub-Feed Lugs				None			
				Enclosure				NEMA 1				Sub-Feed Brkr #1				None			
				SCCR				10 kA				Sub-Feed Brkr #2				None			
				SE Rated															
				Pnl MCA				143 A											
Comments:												SPD							
												Iso Grd							

Panelboard:				Panel 1XHB							
Bus Ampacity				100	Volts	480Y/277		Panel Source:		MDPXHA	
Branch Brkr Space				42	Poles	3		Feed-Thru Lugs		None	
Main Type				MLO	Wires	4		Sub-Feed Lugs		None	
MCB Amps					Delta/Wye	Wye		Sub-Feed Brkr #1		None	
					Mounting	Surface		Sub-Feed Brkr #2		None	
					Enclosure	NEMA 1					
					SCCR	10 kA					
					SE Rated						
					Pnl MCA	79 A					
Comments:								SPD			
								Iso Grd			
Key Note	Load Description	Cct No	Brkr A/P	Left Side			Right Side			Brkr A/P	Key Note
	Panel 1XLC	1	70/3	A	B	C	A	B	C	Cct No	Load Description
		3			15,272		1,305			20/1	AREA E LTG
		5				12,740		500		4	AREA E LTG
	RF-E1-3	7	15/3	1,330				500		6	RCHC
		9			1,330		1,440			15/3	8 ACCU-E1
		11				1,330		1,440		10	
	SF-E1-3	13	15/3	3,050			1,440		1,440	12	
		15			3,050			1,440		15/3	14 ACCU-E3
		17				3,050				16	
	EF-EF-4	19	15/3	1,330			0		1,440	18	
		21			1,330			0		20	SPACE
		23				1,330		0	0	22	SPACE
	SPARE	25	20/3	0			0			24	SPACE
		27		0	0		0		0	26	SPACE
		29					0		0	28	SPACE
	SPARE	31	20/3	0			0			30	SPACE
		33			0			0		32	SPACE
		35				0		0	0	34	SPACE
	SPACE	37		0			0			36	SPACE
	SPACE	39			0			0		38	SPACE
	SPACE	41				0			0	40	SPACE
		42				0			0	42	SPACE

Key Notes: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GROUND S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING

Key Notes: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GROUND S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING

Panelboard:				Panel 1XLG							
Bus Ampacity				225	Volts	208Y/120		Panel Source:		1XLA	
Branch Brkr Space				54 Poles	Phase	3		Feed-Thru Lugs		None	
Main Type				MLO	Wires	4		Sub-Feed Lugs		None	
MCB Amps				-	Delta/Wye	Wye		Sub-Feed Brkr #1		None	
					Mounting	Surface		Sub-Feed Brkr #2		None	
					Enclosure	NEMA 1					
					SCCR	10 kA					
					SE Rated						
					Prl MCA	88 A					
Comments:								SPD			
								Iso Grd			

Key Notes: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GROUND S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING

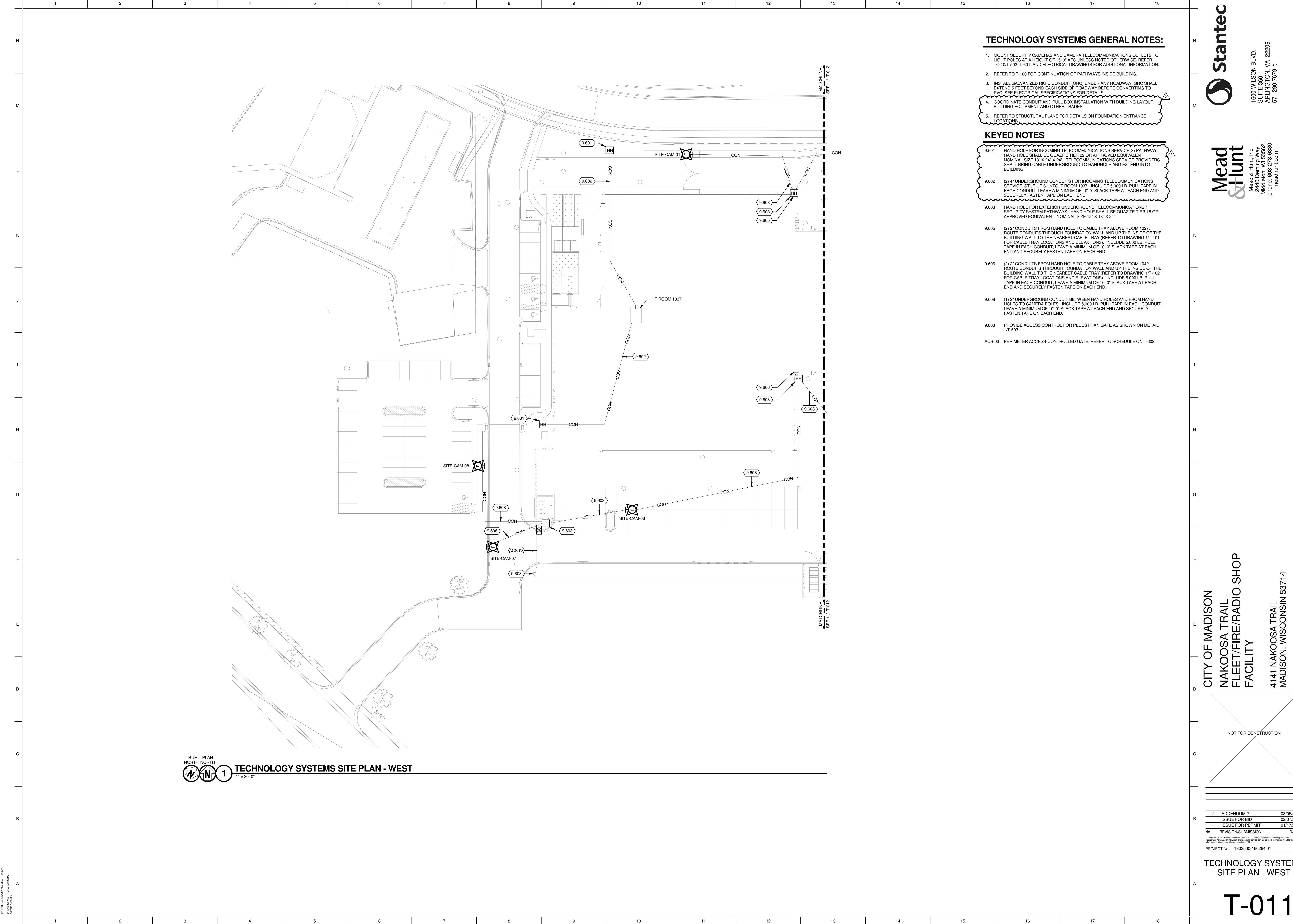
Panelboard:			Panel 1HF			480Y/277			Panel Source:			MDPHC			
Bus Ampacity			400			Volts			Feed-Thru Lugs			None			
Branch Brkr Space			84 Poles			Phase									
Main Type			MLO			Wires									
MCB Amps						Delta/Wye			Sub-Feed Lugs			None			
						Mounting									
						Enclosure			Sub-Feed Brkr #1			None			
						SCCR									
						SE Rated			Sub-Feed Brkr #2			None			
						Prl MCA									
						221 A									
Comments:												SPD			
												Iso Grd			

Key Notes: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GROUND S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING

Panelboard:				Panel 1XLF							
Bus Ampacity				100	Volts		208Y/120	Panel Source:		1XLC	
Branch Brkr Space				18 Poles	Phase		3	Feed-Thru Lugs		None	
Main Type				MLO	Wires		4				
MCB Amps					Delta/Wye		Wye	Sub-Feed Lugs		None	
					Mounting		Surface				
					Enclosure		NEMA 1	Sub-Feed Brkr #1		None	
					SCCR		10 kA				
					SE Rated			Sub-Feed Brkr #2		None	
					Prl MCA		29 A				
Comments:								SPD			
								Iso Grd			

Key Notes: A=HACR G=GFI H=HANDLE LOCK C=THRU CONTACTOR I=ISOLATED GROUND S=SHUNT TRIP P=PADLOCK HASP D=HID LIGHTING

<u>Panelboard:</u>				<u>Panel 1HH</u>							
Bus Ampacity				250 Volts		480		<u>Panel Source:</u>		MDPHA	
Branch Brkr Space				42 Poles		Phase 3		Feed-Thru Lugs		None	
Main Type				MLO		Wires 3		Sub-Feed Lugs		None	
MCB Amps						Delta/Wye		Sub-Feed Brkr #1		None	
						Mounting Surface		Sub-Feed Brkr #2		None	
						Enclosure NEMA 1					
						SCCR 25 KA					
						SE Rated					
						Prl MCA					
						174 A					
Comments:								SPD			
								Iso Grd			
						</					



TECHNOLOGY SYSTEMS GENERAL NOTES:

1. MOUNT SECURITY CAMERAS AND CAMERA TELECOMMUNICATIONS OUTLETS TO LIGHT POLES AT A HEIGHT OF 15'-0" AFG UNLESS NOTED OTHERWISE. REFER TO 10/T-503, T-601, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. REFER TO T-100 FOR CONTINUATION OF PATHWAYS INSIDE BUILDING.
3. INSTALL GALVANIZED RIGID CONDUIT (GRC) UNDER ANY ROADWAY. GRC SHALL EXTEND 5 FEET BEYOND EACH SIDE OF ROADWAY BEFORE CONVERTING TO PVC. SEE ELECTRICAL SPECIFICATIONS FOR DETAILS.
4. COORDINATE CONDUIT AND PULL BOX INSTALLATION WITH BUILDING LAYOUT, BUILDING EQUIPMENT AND OTHER TRADES.
5. REFER TO STRUCTURAL PLANS FOR DETAILS ON FOUNDATION ENTRANCE LOCATIONS.

KEYED NOTES

- 9.601 HAND HOLE FOR INCOMING TELECOMMUNICATIONS SERVICE(S) PATHWAY. HAND HOLE SHALL BE QUAZITE TIER 22 OR APPROVED EQUIVALENT. NOMINAL SIZE 18" X 24" X 24". TELECOMMUNICATIONS SERVICE PROVIDERS SHALL BRING CABLE UNDERGROUND TO HANDHOLE AND EXTEND INTO BUILDING.
- 9.602 (2) 4" UNDERGROUND CONDUITS FOR INCOMING TELECOMMUNICATIONS SERVICE. STUB UP 6" INTO IT ROOM 1037. INCLUDE 5,000 LB. PULL TAPE IN EACH CONDUIT. LEAVE A MINIMUM OF 10'-0" SLACK TAPE AT EACH END AND SECURELY FASTEN TAPE ON EACH END.
- 9.603 HAND HOLE FOR EXTERIOR UNDERGROUND TELECOMMUNICATIONS / SECURITY SYSTEM PATHWAYS. HAND HOLE SHALL BE QUAZITE TIER 15 OR APPROVED EQUIVALENT, NOMINAL SIZE 12" X 18" X 24".
- 9.605 (2) 2" CONDUITS FROM HAND HOLE TO CABLE TRAY ABOVE ROOM 1027. ROUTE CONDUITS THROUGH FOUNDATION WALL AND UP THE INSIDE OF THE BUILDING WALL TO THE NEAREST CABLE TRAY (REFER TO DRAWING 1/T-101 FOR CABLE TRAY LOCATIONS AND ELEVATIONS). INCLUDE 5,000 LB. PULL TAPE IN EACH CONDUIT. LEAVE A MINIMUM OF 10'-0" SLACK TAPE AT EACH END AND SECURELY FASTEN TAPE ON EACH END.
- 9.606 (2) 2" CONDUITS FROM HAND HOLE TO CABLE TRAY ABOVE ROOM 1042. ROUTE CONDUITS THROUGH FOUNDATION WALL AND UP THE INSIDE OF THE BUILDING WALL TO THE NEAREST CABLE TRAY (REFER TO DRAWING 1/T-102 FOR CABLE TRAY LOCATIONS AND ELEVATIONS). INCLUDE 5,000 LB. PULL TAPE IN EACH CONDUIT. LEAVE A MINIMUM OF 10'-0" SLACK TAPE AT EACH END AND SECURELY FASTEN TAPE ON EACH END.
- 9.608 (1) 2" UNDERGROUND CONDUIT BETWEEN HAND HOLES AND FROM HAND HOLES TO CAMERA POLES. INCLUDE 5,000 LB. PULL TAPE IN EACH CONDUIT. LEAVE A MINIMUM OF 10'-0" SLACK TAPE AT EACH END AND SECURELY FASTEN TAPE ON EACH END.
- 9.803 PROVIDE ACCESS CONTROL FOR PEDESTRIAN GATE AS SHOWN ON DETAIL 1/T-503.
- ACS-03 PERIMETER ACCESS-CONTROLLED GATE. REFER TO SCHEDULE ON T-602.

TRUE PLAN NORTH NORTH
1" = 30'-0"
TECHNOLOGY SYSTEMS SITE PLAN - WEST



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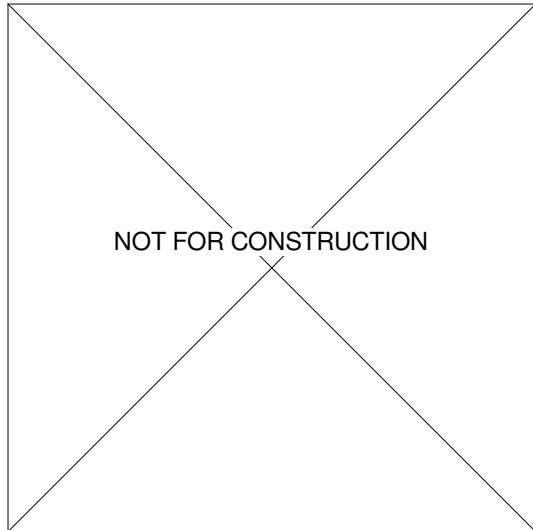


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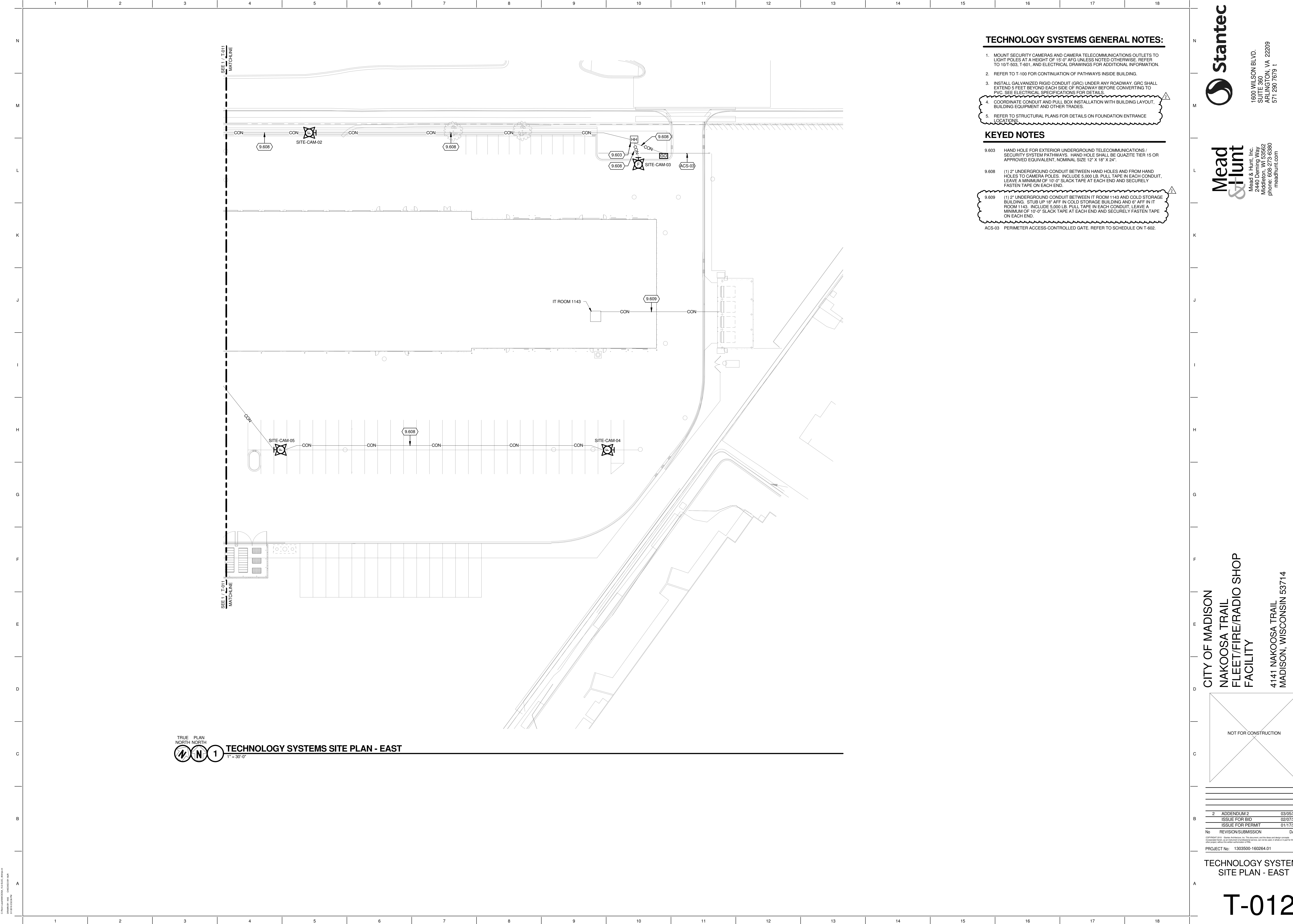
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2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019
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TECHNOLOGY SYSTEMS
SITE PLAN - WEST

T-011



TECHNOLOGY SYSTEMS GENERAL NOTES:

1. MOUNT SECURITY CAMERAS AND CAMERA TELECOMMUNICATIONS OUTLETS TO LIGHT POLES AT A HEIGHT OF 15'-0" AFG UNLESS NOTED OTHERWISE. REFER TO 10T-503, T-601, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. REFER TO T-100 FOR CONTINUATION OF PATHWAYS INSIDE BUILDING.
3. INSTALL GALVANIZED RIGID CONDUIT (GRC) UNDER ANY ROADWAY. GRC SHALL EXTEND 5 FEET BEYOND EACH SIDE OF ROADWAY BEFORE CONVERTING TO PVC. SEE ELECTRICAL SPECIFICATIONS FOR DETAILS.
4. COORDINATE CONDUIT AND PULL BOX INSTALLATION WITH BUILDING LAYOUT, BUILDING EQUIPMENT AND OTHER TRADES.
5. REFER TO STRUCTURAL PLANS FOR DETAILS ON FOUNDATION ENTRANCE LOCATIONS.

KEYED NOTES

- 9.603 HAND HOLE FOR EXTERIOR UNDERGROUND TELECOMMUNICATIONS / SECURITY SYSTEM PATHWAYS. HAND HOLE SHALL BE QUAZITE TIER 15 OR APPROVED EQUIVALENT, NOMINAL SIZE 12" X 16" X 24".
- 9.608 (1) 2" UNDERGROUND CONDUIT BETWEEN HAND HOLES AND FROM HAND HOLES TO CAMERA POLES. INCLUDE 5,000 LB. PULL TAPE IN EACH CONDUIT. LEAVE A MINIMUM OF 10'-0" SLACK TAPE AT EACH END AND SECURELY FASTEN TAPE ON EACH END.
- 9.609 (1) 2" UNDERGROUND CONDUIT BETWEEN IT ROOM 1143 AND COLD STORAGE BUILDING. STUB UP 18" AFF IN COLD STORAGE BUILDING AND 6" AFF IN IT ROOM 1143. INCLUDE 5,000 LB. PULL TAPE IN EACH CONDUIT. LEAVE A MINIMUM OF 10'-0" SLACK TAPE AT EACH END AND SECURELY FASTEN TAPE ON EACH END.
- ACS-03 PERIMETER ACCESS-CONTROLLED GATE. REFER TO SCHEDULE ON T-602.



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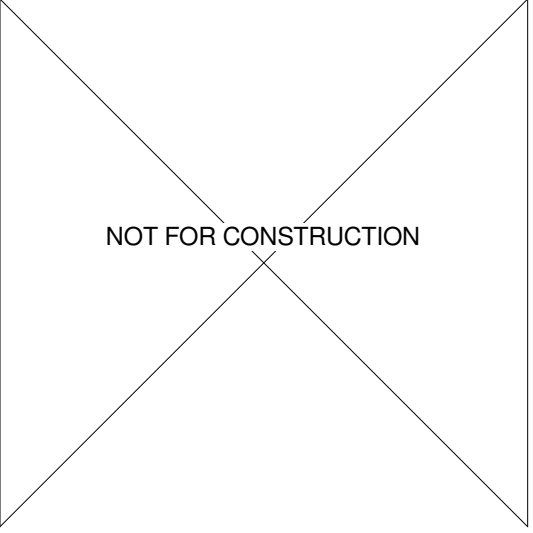


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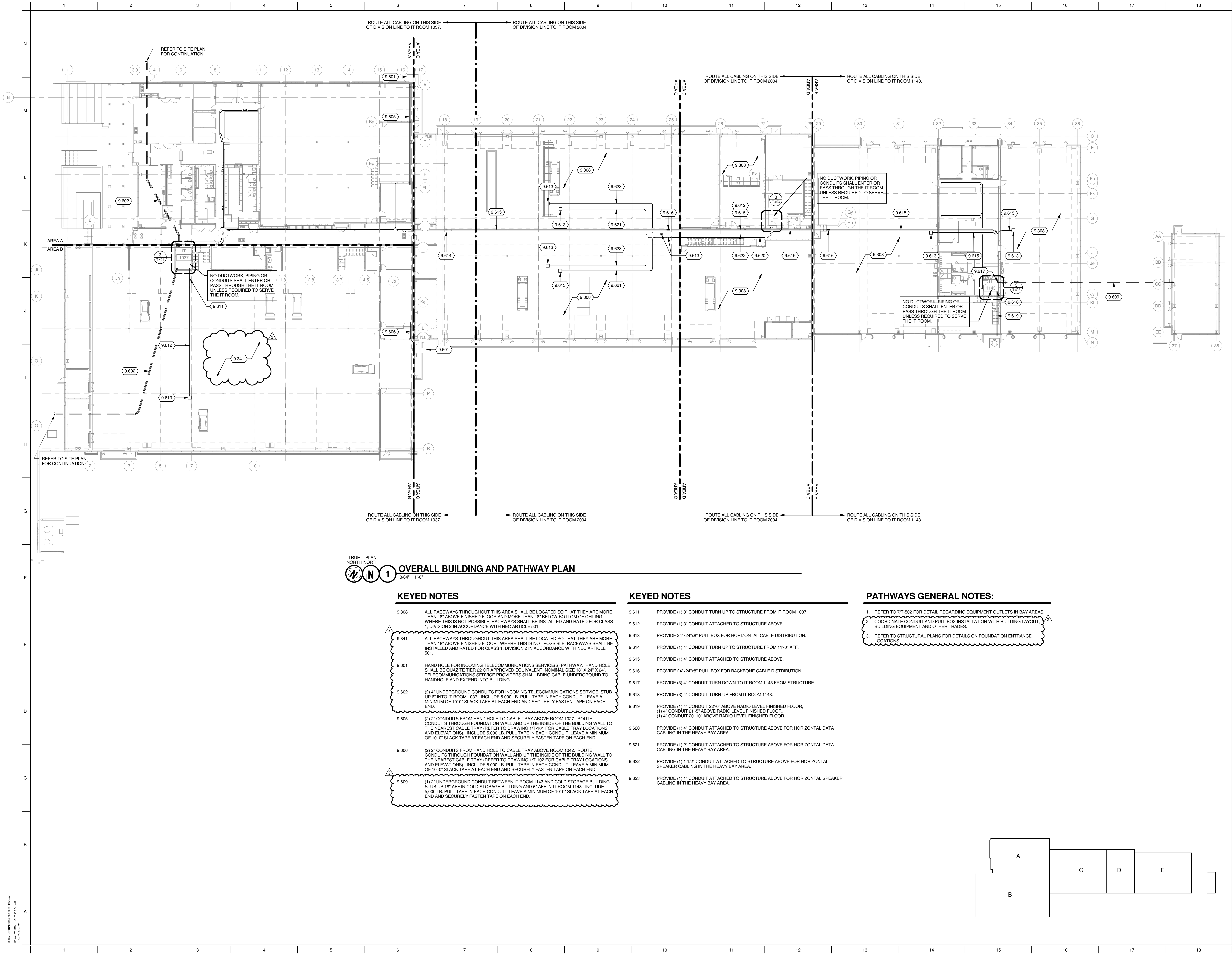
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TECHNOLOGY SYSTEMS
SITE PLAN - EAST

T-012



OVERALL BUILDING AND PATHWAY PLAN

KEYED NOTES

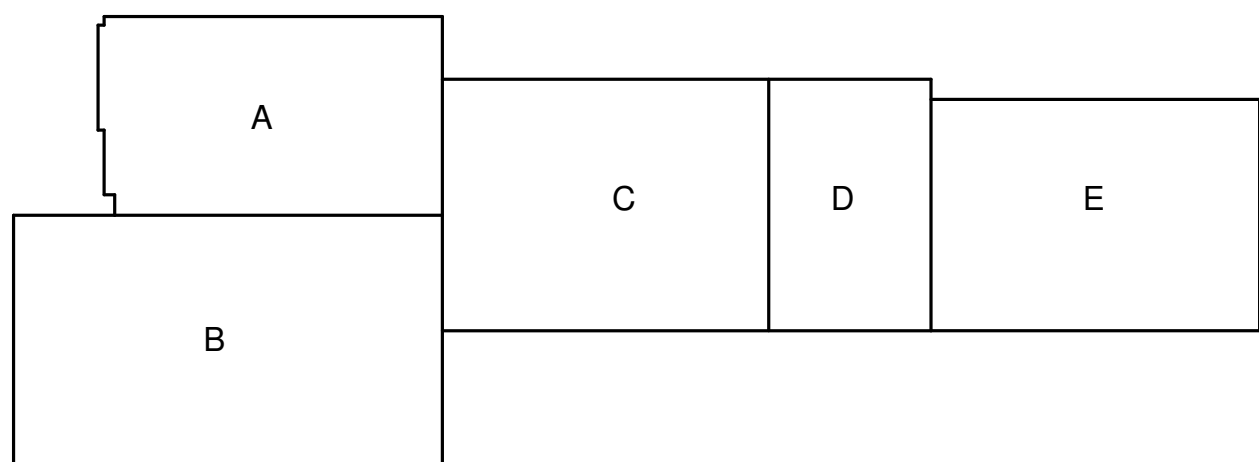
- 9.308 ALL RACEWAYS THROUGHOUT THIS AREA SHALL BE LOCATED SO THAT THEY ARE MORE THAN 18" ABOVE FINISHED FLOOR AND MORE THAN 18" BELOW BOTTOM OF CEILING. WHERE THIS IS NOT POSSIBLE, RACEWAYS SHALL BE INSTALLED AND RATED FOR CLASS 1, DIVISION 2 IN ACCORDANCE WITH NEC ARTICLE 501.
- 9.341 ALL RACEWAYS THROUGHOUT THIS AREA SHALL BE LOCATED SO THAT THEY ARE MORE THAN 18" ABOVE FINISHED FLOOR. WHERE THIS IS NOT POSSIBLE, RACEWAYS SHALL BE INSTALLED AND RATED FOR CLASS 1, DIVISION 2 IN ACCORDANCE WITH NEC ARTICLE 501.
- 9.601 HAND HOLE FOR INCOMING TELECOMMUNICATIONS SERVICE(S) PATHWAY. HAND HOLE SHALL BE QUARTZITE TIER 22 OR APPROVED EQUIVALENT, NOMINAL SIZE 18" X 24" X 24". TELECOMMUNICATIONS SERVICE PROVIDERS SHALL BRING CABLE UNDERGROUND TO HANDHOLE AND EXTEND INTO BUILDING.
- 9.602 (2) 4" UNDERGROUND CONDUITS FOR INCOMING TELECOMMUNICATIONS SERVICE. STUB UP 6" INTO IT ROOM 1037. INCLUDE 5,000 LB. PULL TAPE IN EACH CONDUIT. LEAVE A MINIMUM OF 10'-0" SLACK TAPE AT EACH END AND SECURELY FASTEN TAPE ON EACH END.
- 9.605 (2) 2" CONDUITS FROM HAND HOLE TO CABLE TRAY ABOVE ROOM 1027. ROUTE CONDUITS THROUGH FOUNDATION WALL AND UP THE INSIDE OF THE BUILDING WALL TO THE NEAREST CABLE TRAY (REFER TO DRAWING 17-101 FOR CABLE TRAY LOCATIONS AND ELEVATIONS). INCLUDE 5,000 LB. PULL TAPE IN EACH CONDUIT. LEAVE A MINIMUM OF 10'-0" SLACK TAPE AT EACH END AND SECURELY FASTEN TAPE ON EACH END.
- 9.606 (2) 2" CONDUITS FROM HAND HOLE TO CABLE TRAY ABOVE ROOM 1042. ROUTE CONDUITS THROUGH FOUNDATION WALL AND UP THE INSIDE OF THE BUILDING WALL TO THE NEAREST CABLE TRAY (REFER TO DRAWING 17-102 FOR CABLE TRAY LOCATIONS AND ELEVATIONS). INCLUDE 5,000 LB. PULL TAPE IN EACH CONDUIT. LEAVE A MINIMUM OF 10'-0" SLACK TAPE AT EACH END AND SECURELY FASTEN TAPE ON EACH END.
- 9.609 (1) 2" UNDERGROUND CONDUIT BETWEEN IT ROOM 1143 AND COLD STORAGE BUILDING. STUB UP 18" AFF IN COLD STORAGE BUILDING AND 6" AFF IN IT ROOM 1143. INCLUDE 5,000 LB. PULL TAPE IN EACH CONDUIT. LEAVE A MINIMUM OF 10'-0" SLACK TAPE AT EACH END AND SECURELY FASTEN TAPE ON EACH END.

KEYED NOTES

- 9.611 PROVIDE (1) 3" CONDUIT TURN UP TO STRUCTURE FROM IT ROOM 1037.
- 9.612 PROVIDE (1) 3" CONDUIT ATTACHED TO STRUCTURE ABOVE.
- 9.613 PROVIDE 24"x24"x8" PULL BOX FOR HORIZONTAL CABLE DISTRIBUTION.
- 9.614 PROVIDE (1) 4" CONDUIT TURN UP TO STRUCTURE FROM 11'-0" AFF.
- 9.615 PROVIDE (1) 4" CONDUIT ATTACHED TO STRUCTURE ABOVE.
- 9.616 PROVIDE 24"x24"x8" PULL BOX FOR BACKBONE CABLE DISTRIBUTION.
- 9.617 PROVIDE (3) 4" CONDUIT TURN DOWN TO IT ROOM 1143 FROM STRUCTURE.
- 9.618 PROVIDE (3) 4" CONDUIT TURN UP FROM IT ROOM 1143.
- 9.619 PROVIDE (1) 4" CONDUIT 22'-0" ABOVE RADIO LEVEL FINISHED FLOOR, (1) 4" CONDUIT 21'-5" ABOVE RADIO LEVEL FINISHED FLOOR, (1) 4" CONDUIT 20'-10" ABOVE RADIO LEVEL FINISHED FLOOR.
- 9.620 PROVIDE (1) 4" CONDUIT ATTACHED TO STRUCTURE ABOVE FOR HORIZONTAL DATA CABLING IN THE HEAVY BAY AREA.
- 9.621 PROVIDE (1) 2" CONDUIT ATTACHED TO STRUCTURE ABOVE FOR HORIZONTAL DATA CABLING IN THE HEAVY BAY AREA.
- 9.622 PROVIDE (1) 1 1/2" CONDUIT ATTACHED TO STRUCTURE ABOVE FOR HORIZONTAL SPEAKER CABLING IN THE HEAVY BAY AREA.
- 9.623 PROVIDE (1) 1" CONDUIT ATTACHED TO STRUCTURE ABOVE FOR HORIZONTAL SPEAKER CABLING IN THE HEAVY BAY AREA.

PATHWAYS GENERAL NOTES:

- REFER TO 7/T-502 FOR DETAIL REGARDING EQUIPMENT OUTLETS IN BAY AREAS.
- COORDINATE CONDUIT AND PULL BOX INSTALLATION WITH BUILDING LAYOUT, BUILDING EQUIPMENT AND OTHER TRADES.
- REFER TO STRUCTURAL PLANS FOR DETAILS ON FOUNDATION ENTRANCE LOCATIONS.



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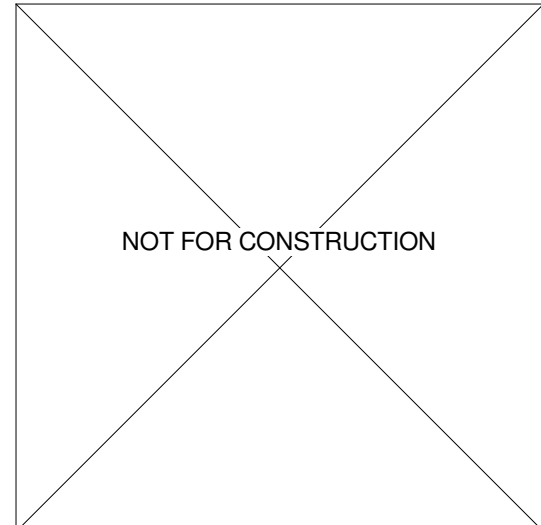


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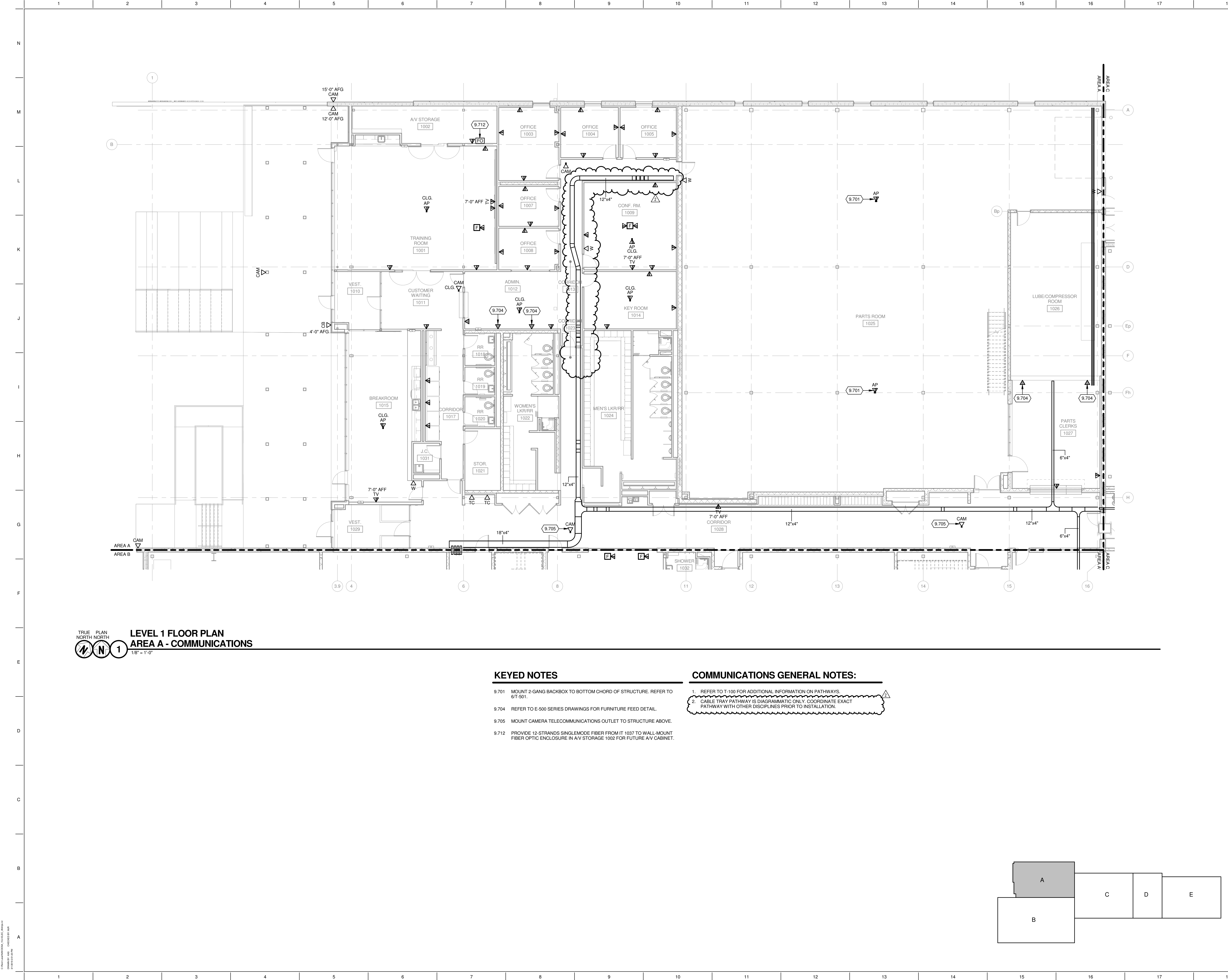
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OVERALL BUILDING PLAN

T-100



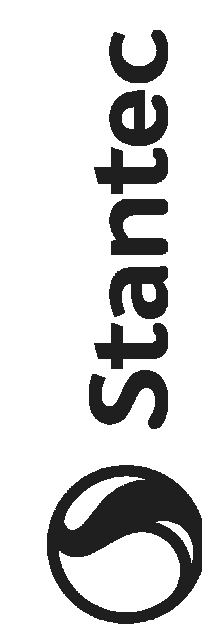
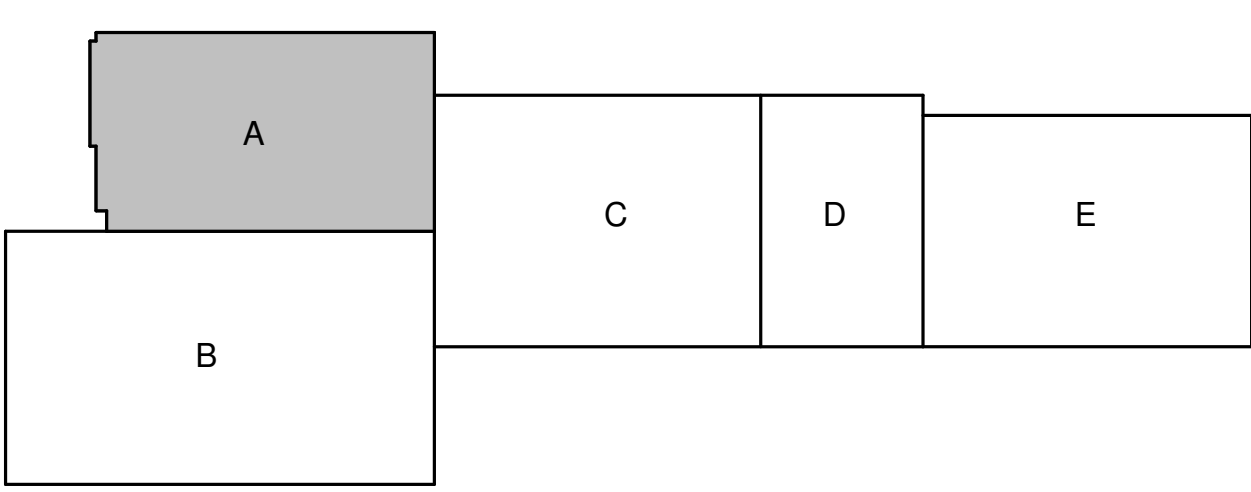
TRUE PLAN NORTH NORTH
LEVEL 1 FLOOR PLAN
AREA A - COMMUNICATIONS
1/8" = 1'-0"

KEYED NOTES

- 9.701 MOUNT 2-GANG BACKBOX TO BOTTOM CHORD OF STRUCTURE. REFER TO 6/T-501.
- 9.704 REFER TO E-500 SERIES DRAWINGS FOR FURNITURE FEED DETAIL.
- 9.705 MOUNT CAMERA TELECOMMUNICATIONS OUTLET TO STRUCTURE ABOVE.
- 9.712 PROVIDE 12-STRANDS SINGLEMODE FIBER FROM IT 1037 TO WALL-MOUNT FIBER OPTIC ENCLOSURE IN A/V STORAGE 1002 FOR FUTURE A/V CABINET.

COMMUNICATIONS GENERAL NOTES:

- 1. REFER TO T-100 FOR ADDITIONAL INFORMATION ON PATHWAYS.
- 2. CABLE TRAY PATHWAY IS DIAGRAMMATIC ONLY. COORDINATE EXACT PATHWAY WITH OTHER DISCIPLINES PRIOR TO INSTALLATION.



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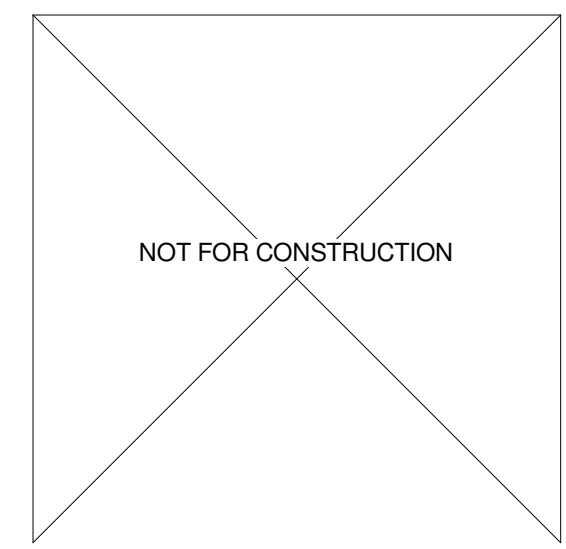


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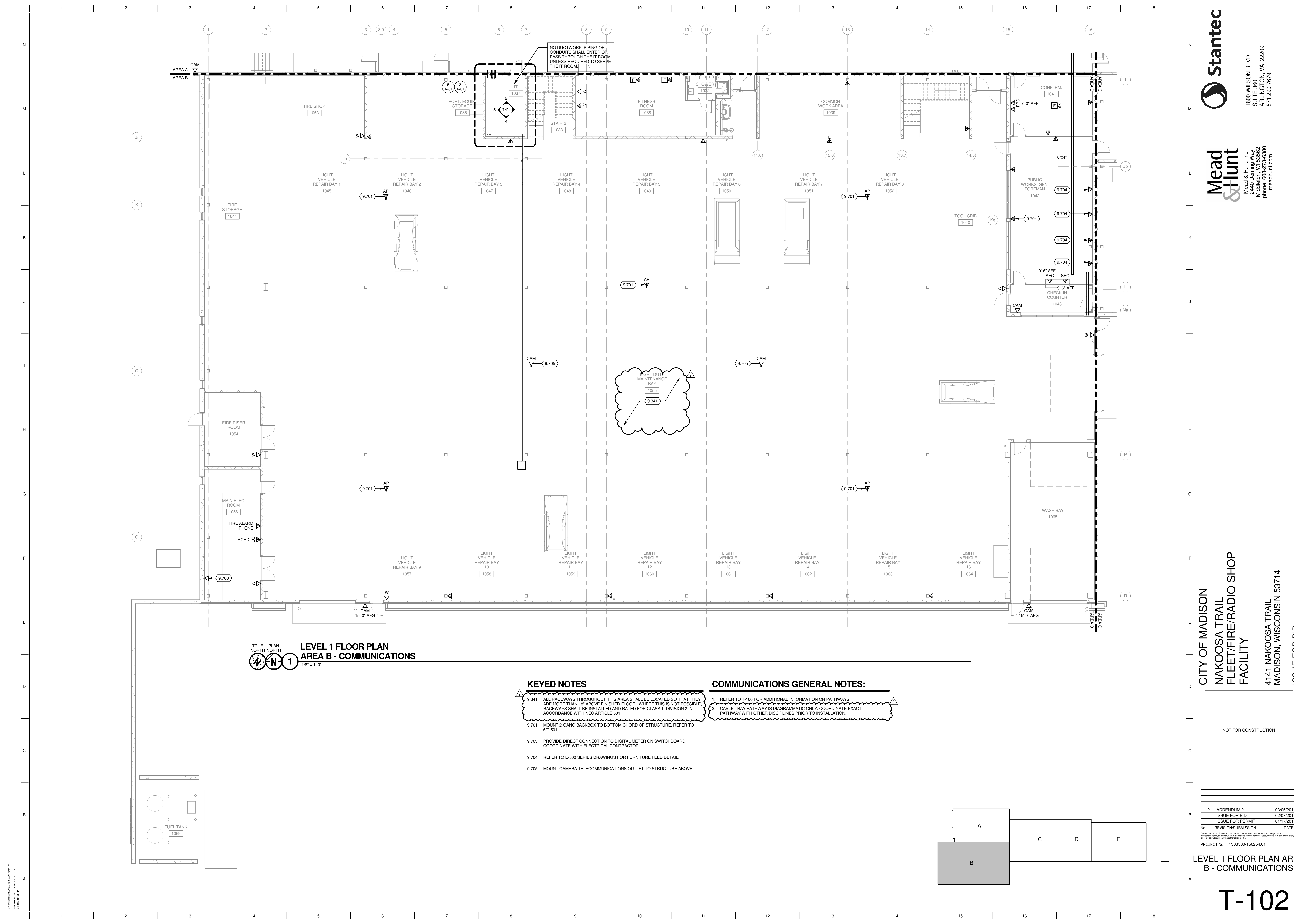
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LEVEL 1 FLOOR PLAN AREA
A - COMMUNICATIONS

T-101



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

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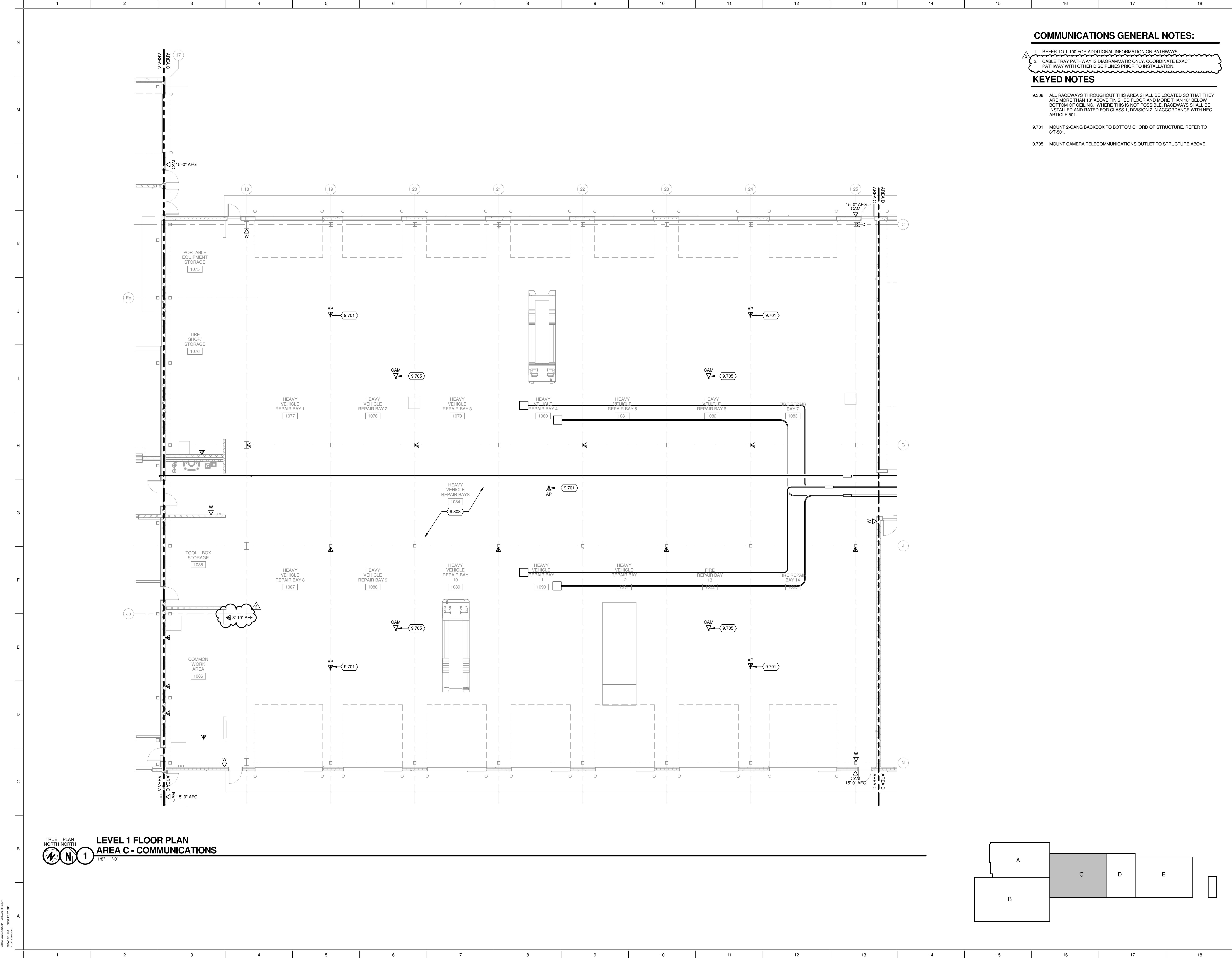
No.	REVISION/SUBMISSION	DATE
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City/State/Zip: Dallas, Addison, TX, No. The Applicant will be liable for all design and construction. Construction within the above and below existing. No other use shall be made in whole or in part for any purpose.

PROJECT No: 1303500-160264.01

LEVEL 1 FLOOR PLAN AREA
B - COMMUNICATIONS

T-102



COMMUNICATIONS GENERAL NOTES:

1. REFER TO T-100 FOR ADDITIONAL INFORMATION ON PATHWAYS.
2. CABLE TRAY PATHWAY IS DIAGRAMMATIC ONLY. COORDINATE EXACT PATHWAY WITH OTHER DISCIPLINES PRIOR TO INSTALLATION.

KEYED NOTES

- 9.308 ALL RACEWAYS THROUGHOUT THIS AREA SHALL BE LOCATED SO THAT THEY ARE MORE THAN 18" ABOVE FINISHED FLOOR AND MORE THAN 18" BELOW BOTTOM OF CEILING. WHERE THIS IS NOT POSSIBLE, RACEWAYS SHALL BE INSTALLED AND RATED FOR CLASS 1, DIVISION 2 IN ACCORDANCE WITH NEC ARTICLE 501.
- 9.701 MOUNT 2-GANG BACKBOX TO BOTTOM CHORD OF STRUCTURE. REFER TO 6/T-501.
- 9.705 MOUNT CAMERA TELECOMMUNICATIONS OUTLET TO STRUCTURE ABOVE.



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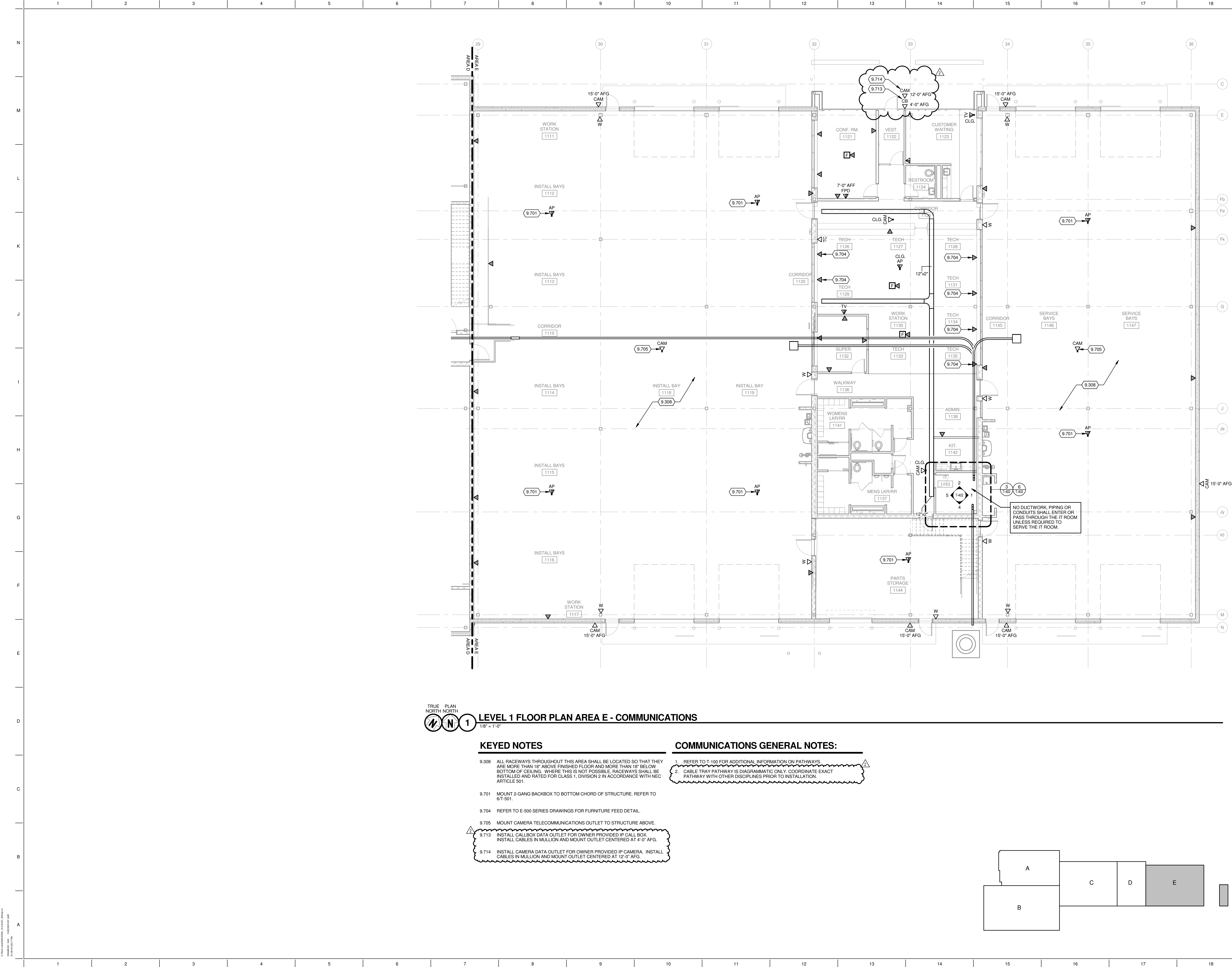
NOT FOR CONSTRUCTION

2	ADDENDUM 2	03/05/2019
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LEVEL 1 FLOOR PLAN AREA
C - COMMUNICATIONS

T-103



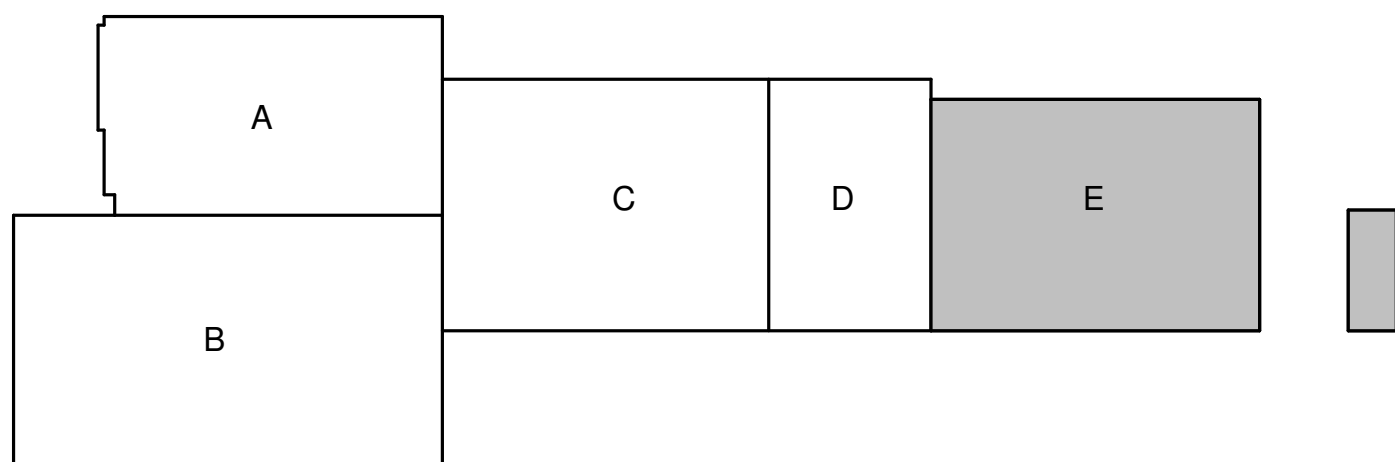
1 LEVEL 1 FLOOR PLAN AREA E - COMMUNICATIONS

KEYED NOTES

- 9.308 ALL RACEWAYS THROUGHOUT THIS AREA SHALL BE LOCATED SO THAT THEY ARE MORE THAN 18" ABOVE FINISHED FLOOR AND MORE THAN 18" BELOW BOTTOM OF CEILING. WHERE THIS IS NOT POSSIBLE, RACEWAYS SHALL BE INSTALLED AND RATED FOR CLASS 1, DIVISION 2 IN ACCORDANCE WITH NEC ARTICLE 501.
- 9.701 MOUNT 2-GANG BACKBOX TO BOTTOM CHORD OF STRUCTURE. REFER TO 6/T-501.
- 9.704 REFER TO E-500 SERIES DRAWINGS FOR FURNITURE FEED DETAIL.
- 9.705 MOUNT CAMERA TELECOMMUNICATIONS OUTLET TO STRUCTURE ABOVE.
- 9.713 INSTALL CALLBOX DATA OUTLET FOR OWNER PROVIDED IP CALL BOX. INSTALL CABLES IN MULLION AND MOUNT OUTLET CENTERED AT 4'-0" AFG.
- 9.714 INSTALL CAMERA DATA OUTLET FOR OWNER PROVIDED IP CAMERA. INSTALL CABLES IN MULLION AND MOUNT OUTLET CENTERED AT 12'-0" AFG.

COMMUNICATIONS GENERAL NOTES:

- REFER TO T-100 FOR ADDITIONAL INFORMATION ON PATHWAYS.
- CABLE TRAY PATHWAY IS DIAGRAMMATIC ONLY. COORDINATE EXACT PATHWAY WITH OTHER DISCIPLINES PRIOR TO INSTALLATION.



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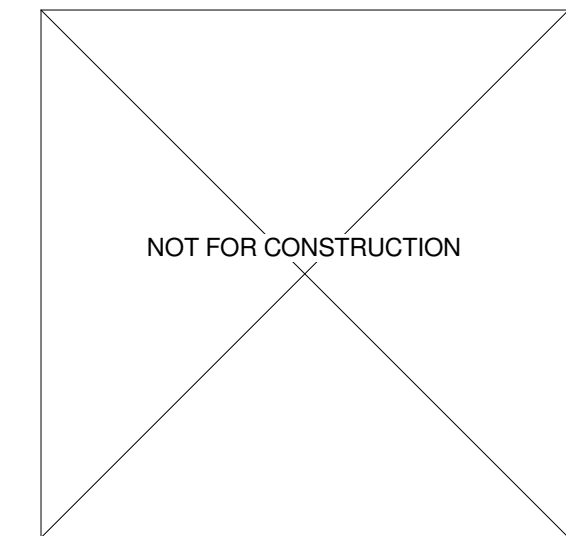


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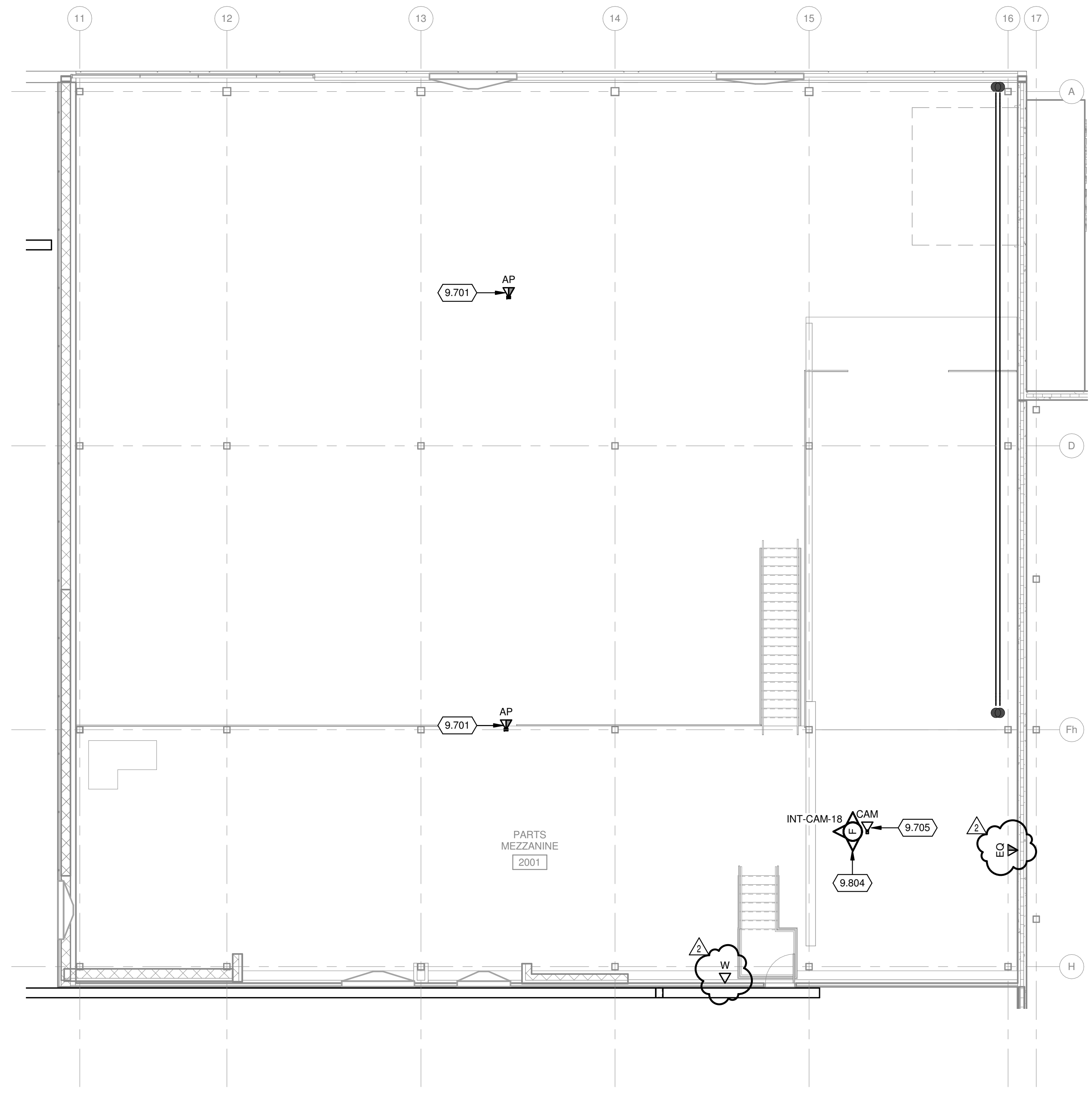


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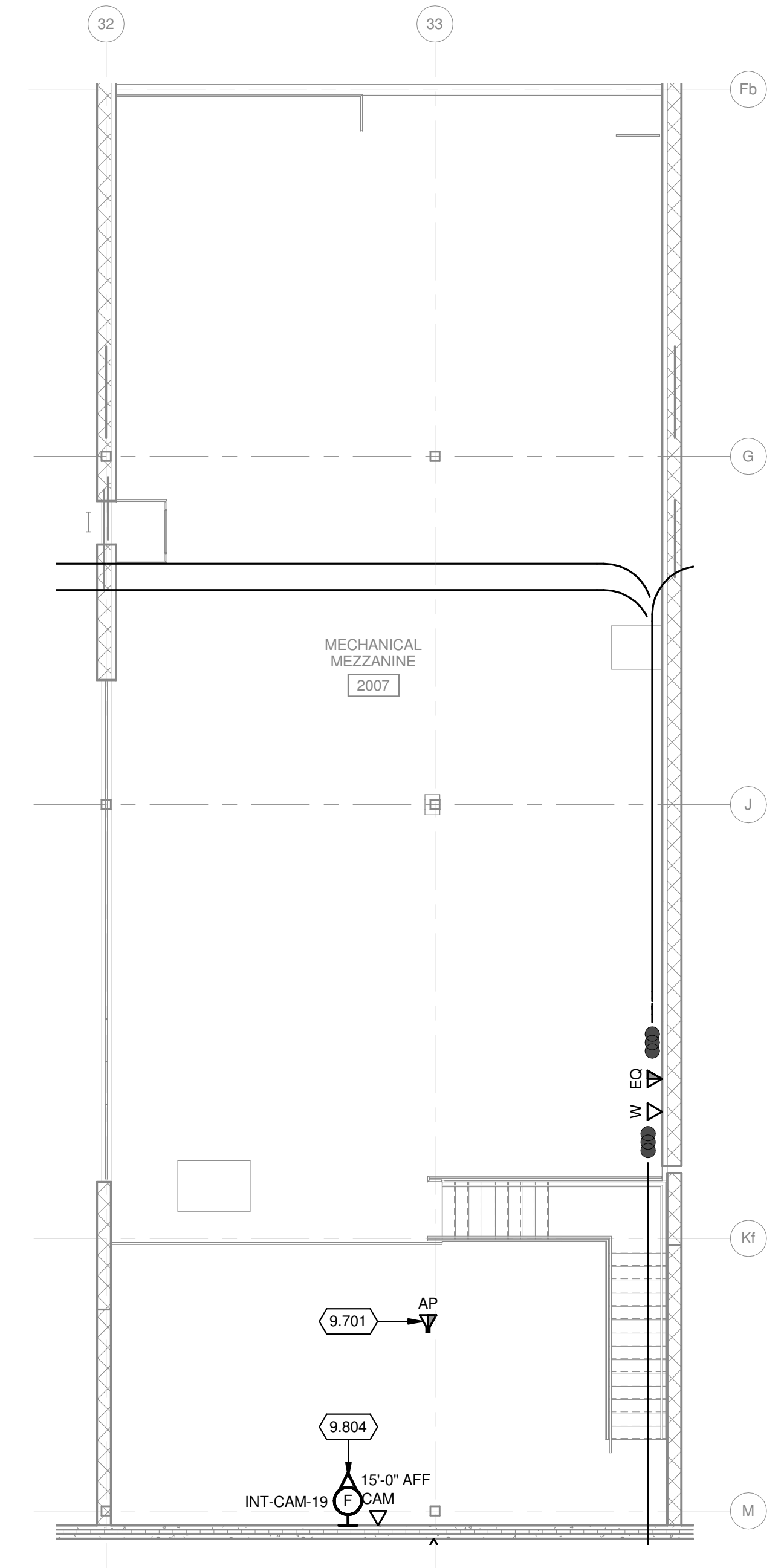
LEVEL 1 FLOOR PLAN AREA
E - COMMUNICATIONS

T-105

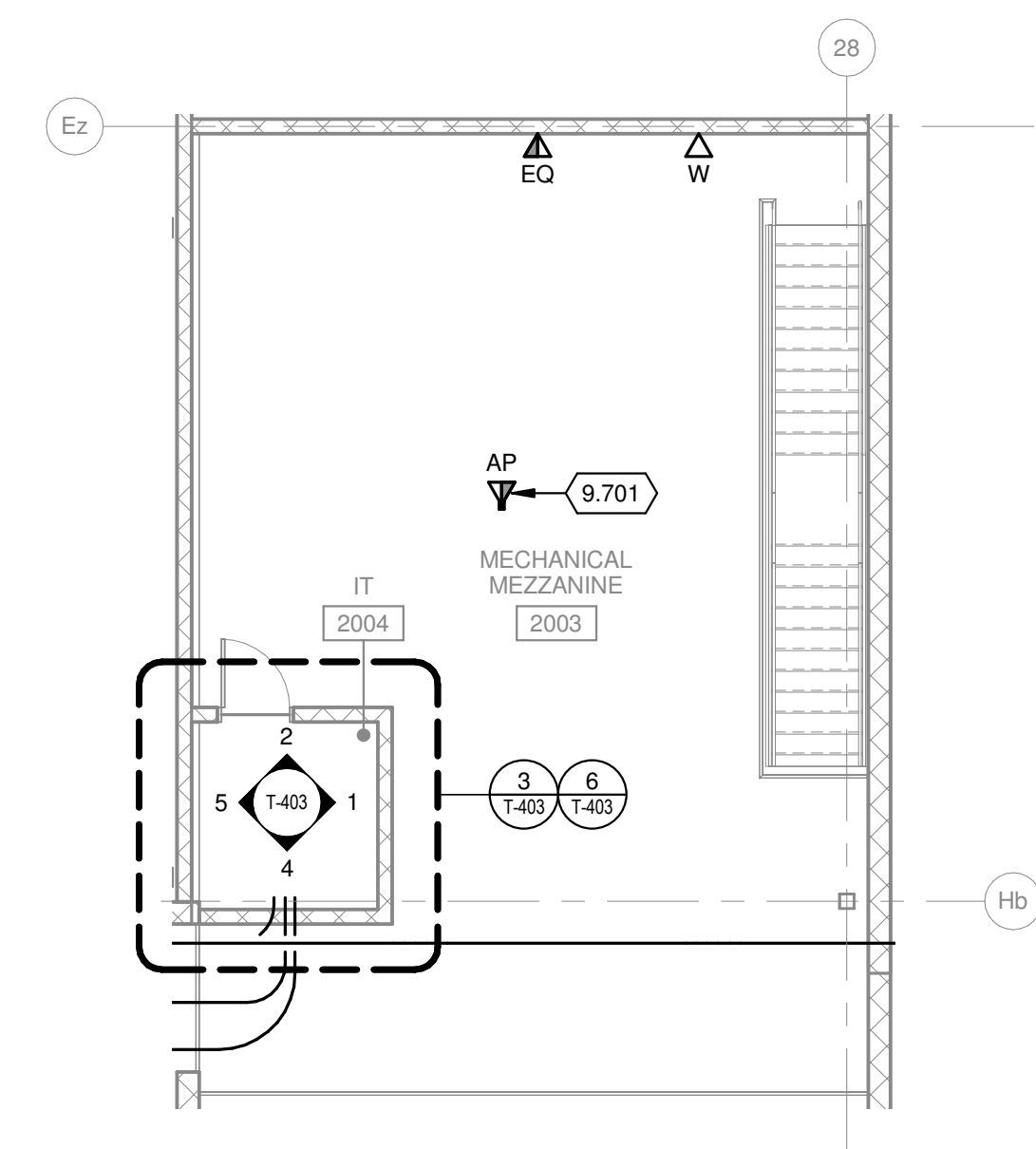
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11/18/2018 10:41 AM



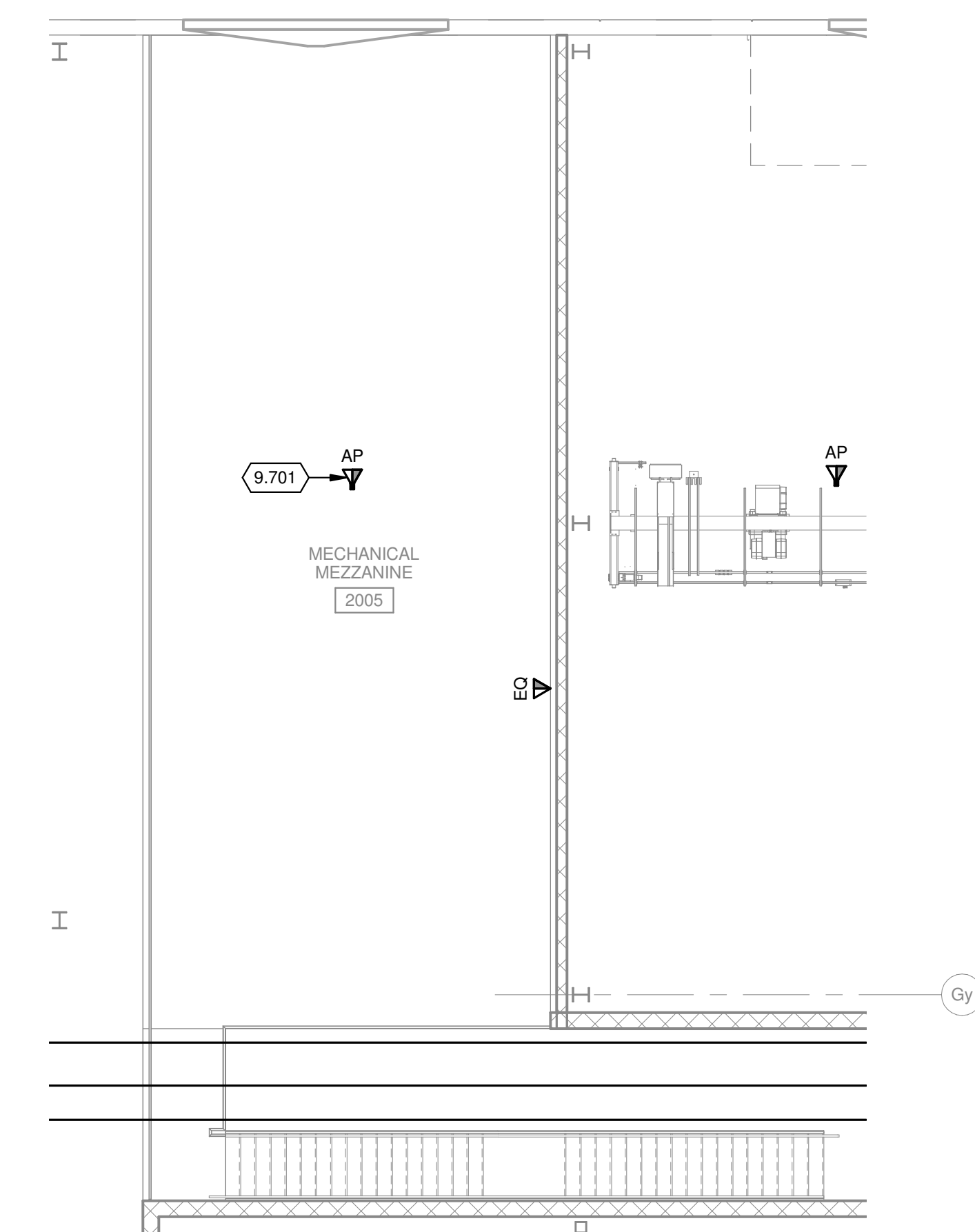
TRUE PLAN NORTH NORTH
MEZZANINE FLOOR PLAN PARTS AND STORAGE - TECHNOLOGY
1/8" = 1'-0"



TRUE PLAN NORTH NORTH
MEZZANINE FLOOR PLAN RADIO - TECHNOLOGY
1/8" = 1'-0"



TRUE PLAN NORTH NORTH
MEZZANINE FLOOR PLAN FIRE - TECHNOLOGY
1/8" = 1'-0"



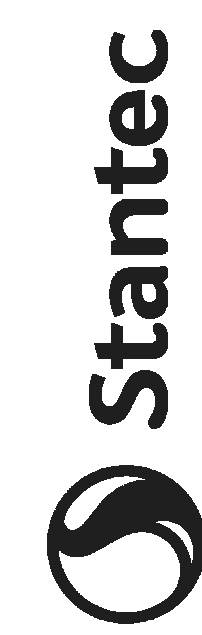
TRUE PLAN NORTH NORTH
MEZZANINE FLOOR PLAN MECHANICAL MEZZANINE - TECHNOLOGY
1/8" = 1'-0"

COMMUNICATIONS GENERAL NOTES:

1. REFER TO T-100 FOR ADDITIONAL INFORMATION ON PATHWAYS.
2. CABLE TRAY PATHWAY IS DIAGRAMMATIC ONLY. COORDINATE EXACT PATHWAY WITH OTHER DISCIPLINES PRIOR TO INSTALLATION.

KEYED NOTES

- 9.701 MOUNT 2-GANG BACKBOX TO BOTTOM CHORD OF STRUCTURE. REFER TO 6/T-501.
- 9.705 MOUNT CAMERA TELECOMMUNICATIONS OUTLET TO STRUCTURE ABOVE.
- 9.804 COORDINATE CAMERA AND ASSOCIATED TELECOMMUNICATIONS OUTLET WITH SHELVING.



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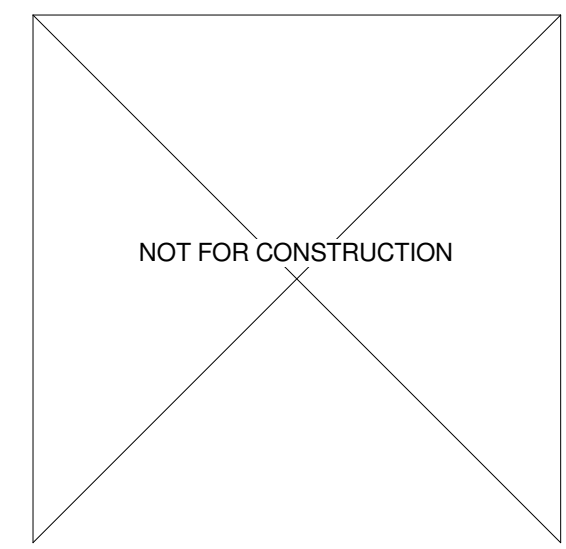


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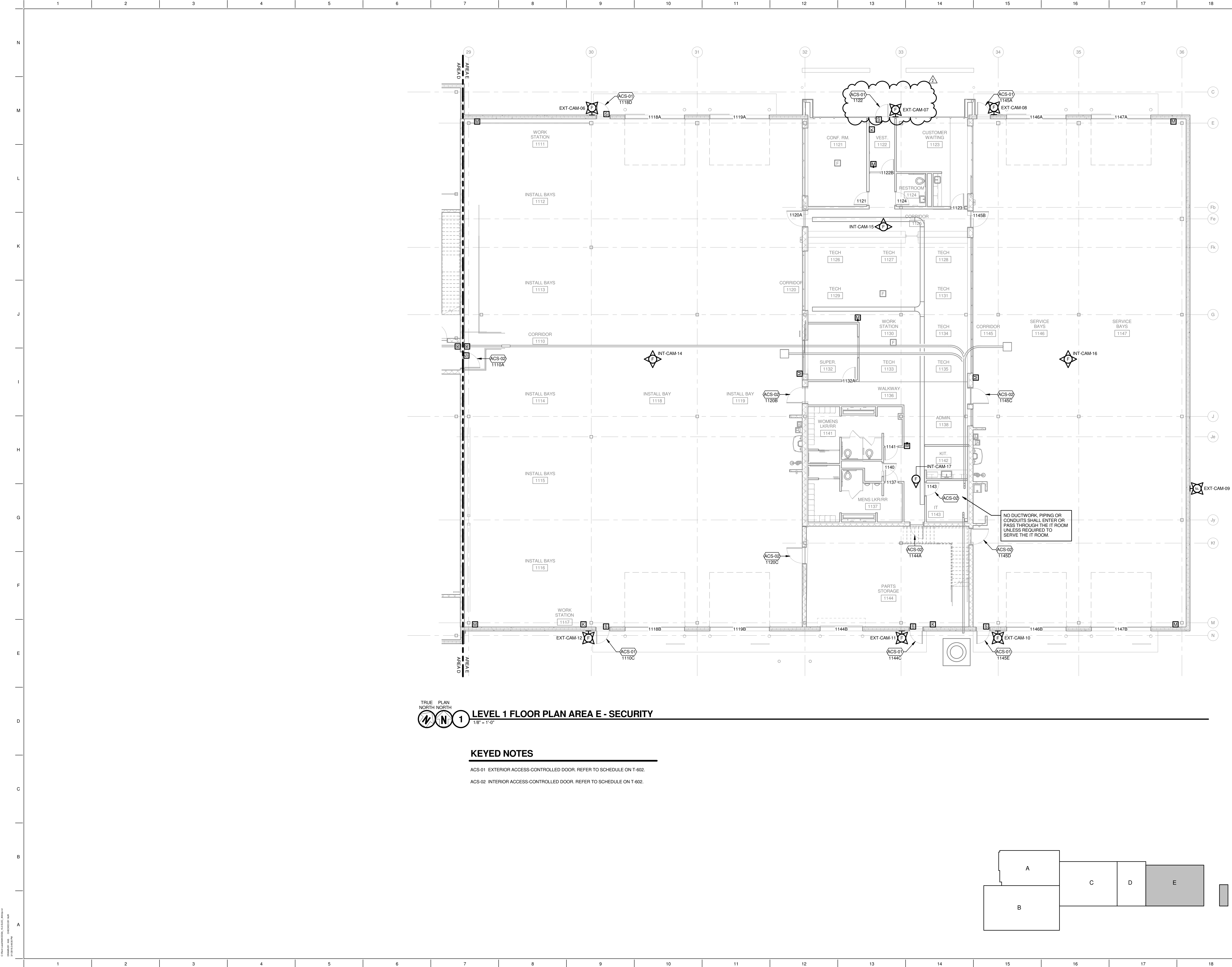
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MEZZANINE FLOOR PLANS -
COMMUNICATIONS

T-106



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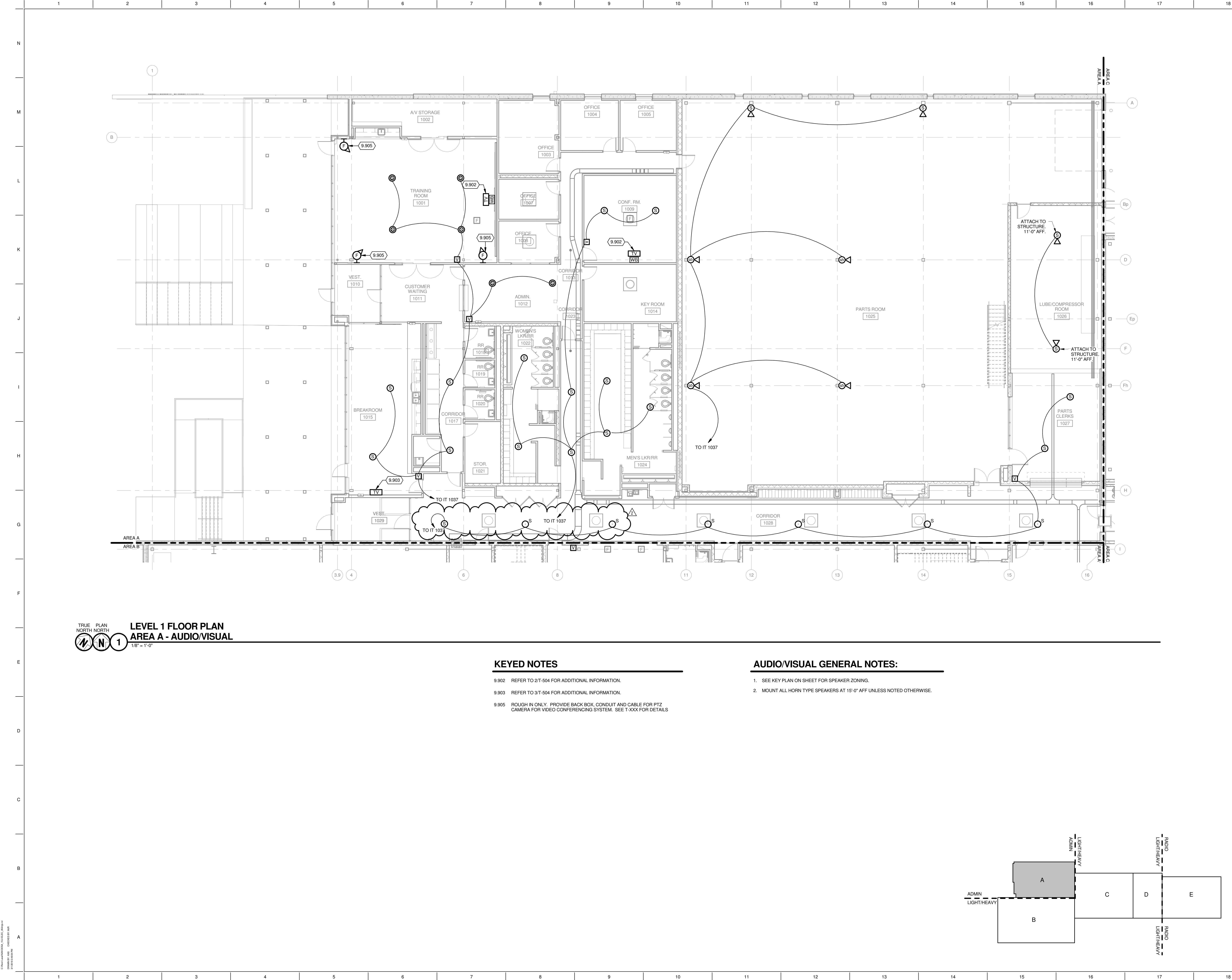
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2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019

No. 1303500-160264.01

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LEVEL 1 FLOOR PLAN AREA E - SECURITY

T-125



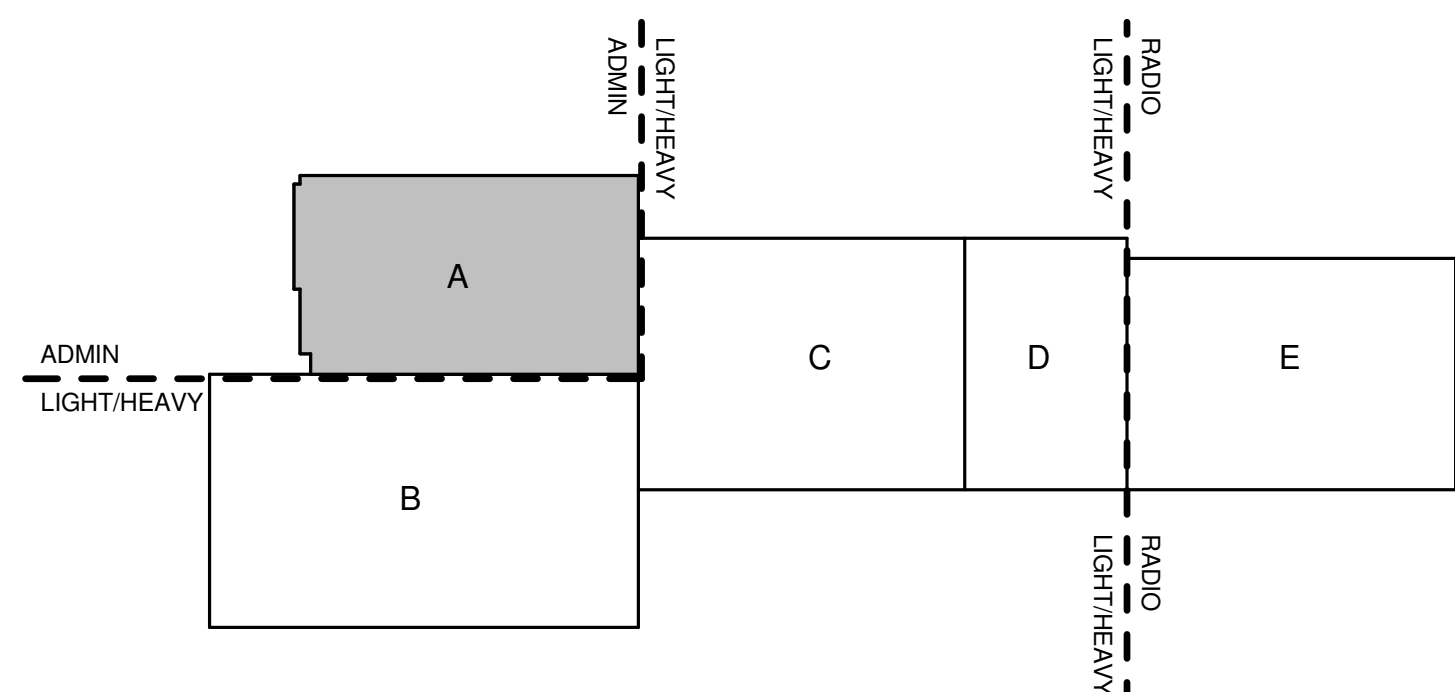
TRUE PLAN
NORTH NORTH
LEVEL 1 FLOOR PLAN
AREA A - AUDIO/VISUAL
1/8" = 1'-0"

KEYED NOTES

- 9.902 REFER TO 2/T-504 FOR ADDITIONAL INFORMATION.
- 9.903 REFER TO 3/T-504 FOR ADDITIONAL INFORMATION.
- 9.905 ROUGH IN ONLY. PROVIDE BACK BOX, CONDUIT AND CABLE FOR PTZ CAMERA FOR VIDEO CONFERENCING SYSTEM. SEE T-XXX FOR DETAILS

AUDIO/VISUAL GENERAL NOTES:

- 1. SEE KEY PLAN ON SHEET FOR SPEAKER ZONING.
- 2. MOUNT ALL HORN TYPE SPEAKERS AT 15'-0" AFF UNLESS NOTED OTHERWISE.



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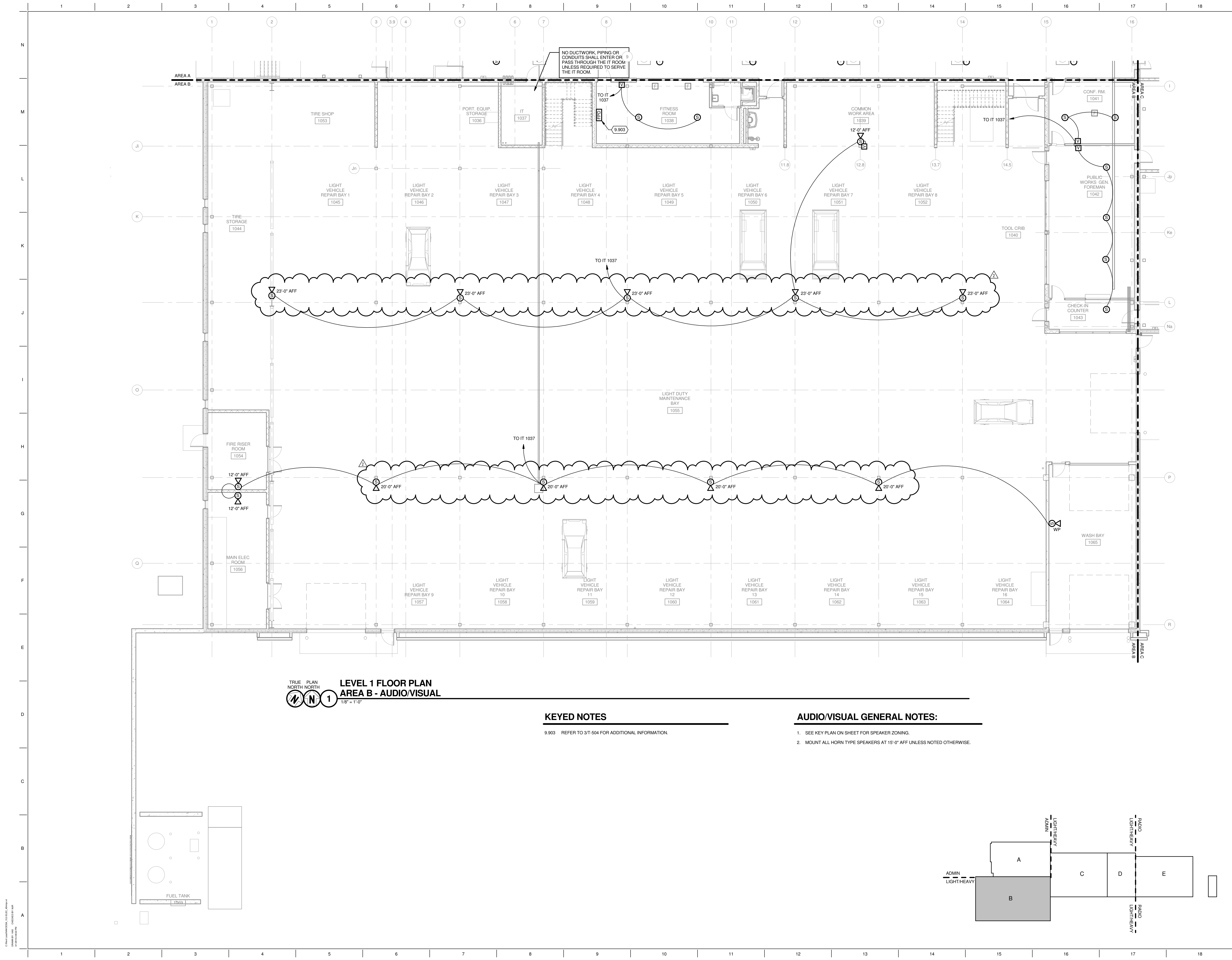
CITY OF MADISON
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LEVEL 1 FLOOR PLAN AREA
A - AUDIO/VISUAL



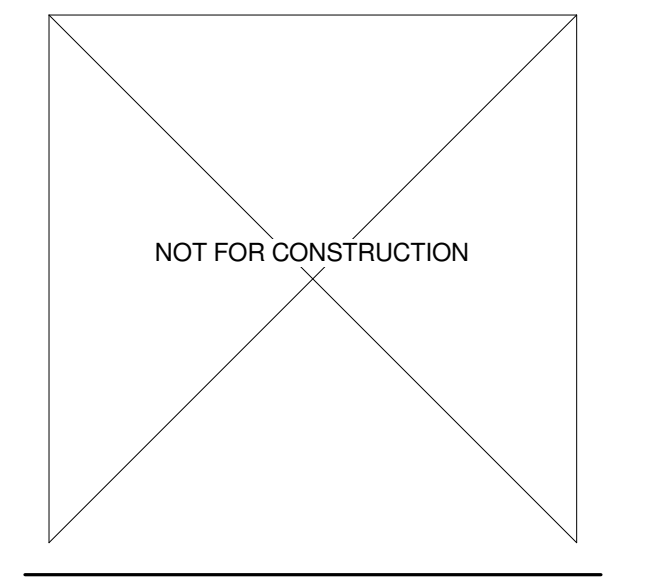
TRUE PLAN NORTH NORTH
**LEVEL 1 FLOOR PLAN
AREA B - AUDIO/VISUAL**
1/8" = 1'-0"

KEYED NOTES

9.903 REFER TO 31T-504 FOR ADDITIONAL INFORMATION.

AUDIO/VISUAL GENERAL NOTES:

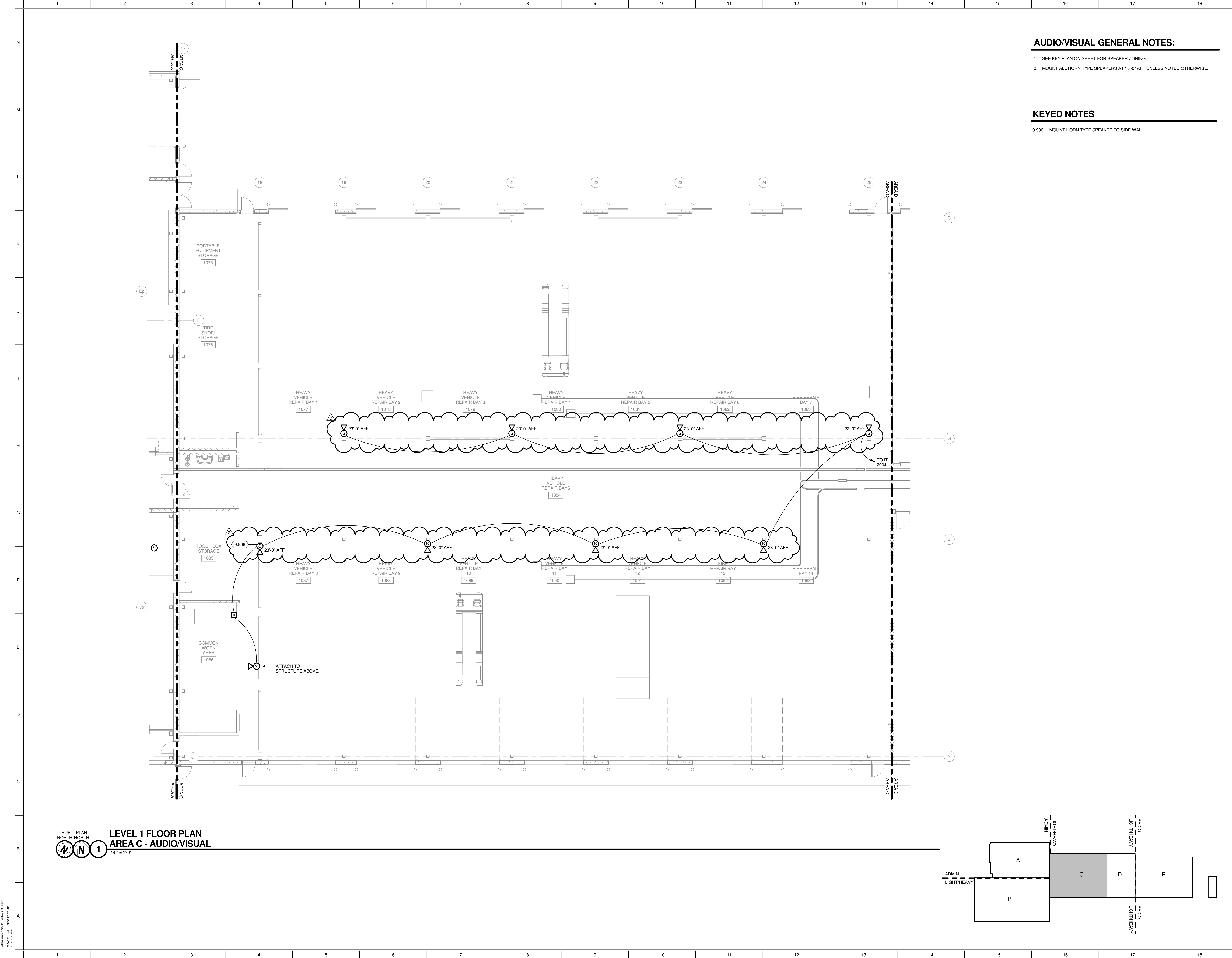
1. SEE KEY PLAN ON SHEET FOR SPEAKER ZONING.
2. MOUNT ALL HORN TYPE SPEAKERS AT 15'-0" AFF UNLESS NOTED OTHERWISE.



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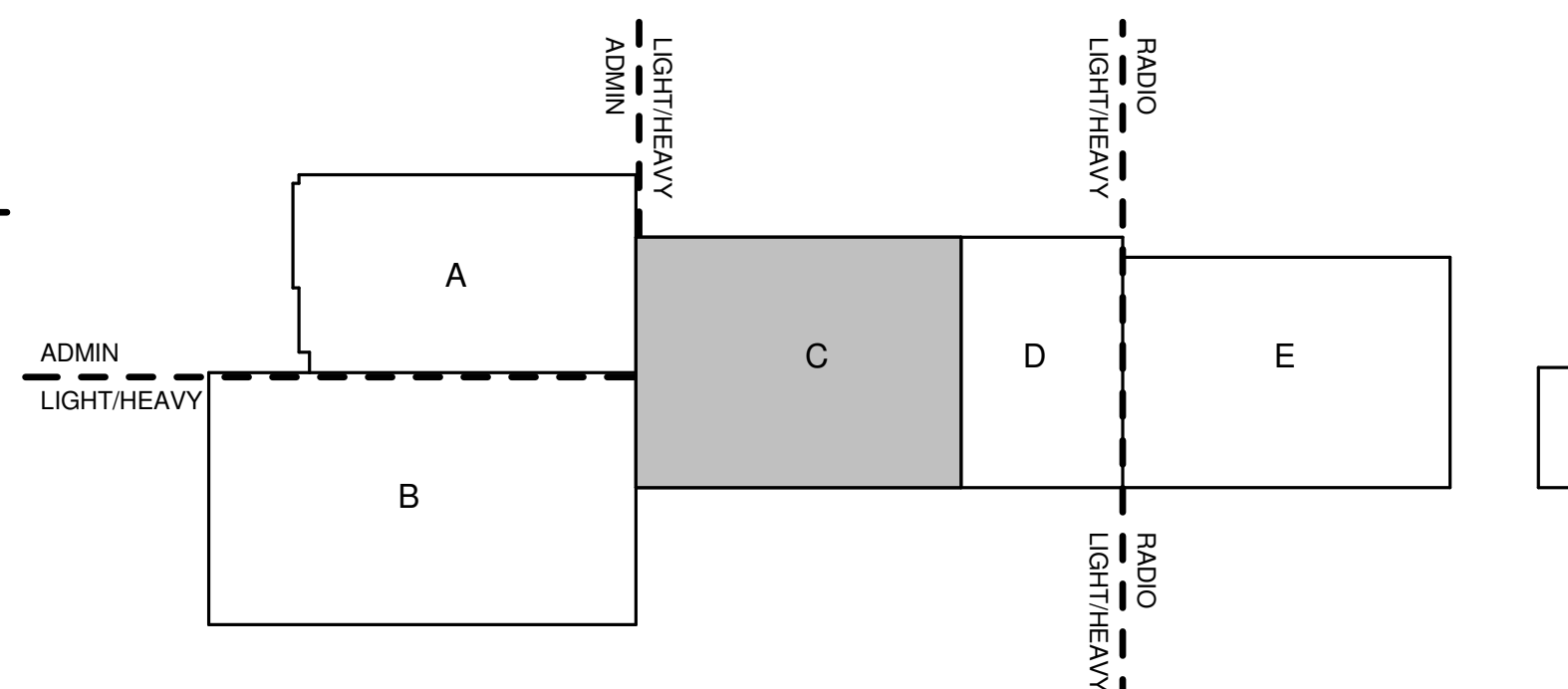
PROJECT No: 1303500-160264.01

**LEVEL 1 FLOOR PLAN AREA
B - AUDIO/VISUAL**



TRUE PLAN
NORTH NORTH
**LEVEL 1 FLOOR PLAN
AREA C - AUDIO/VISUAL**
1/8" = 1'-0"

- AUDIO/VISUAL GENERAL NOTES:**
- SEE KEY PLAN ON SHEET FOR SPEAKER ZONING.
 - MOUNT ALL HORN TYPE SPEAKERS AT 15'-0" AFF UNLESS NOTED OTHERWISE.
- KEYED NOTES**
- 9.906 MOUNT HORN TYPE SPEAKER TO SIDE WALL.



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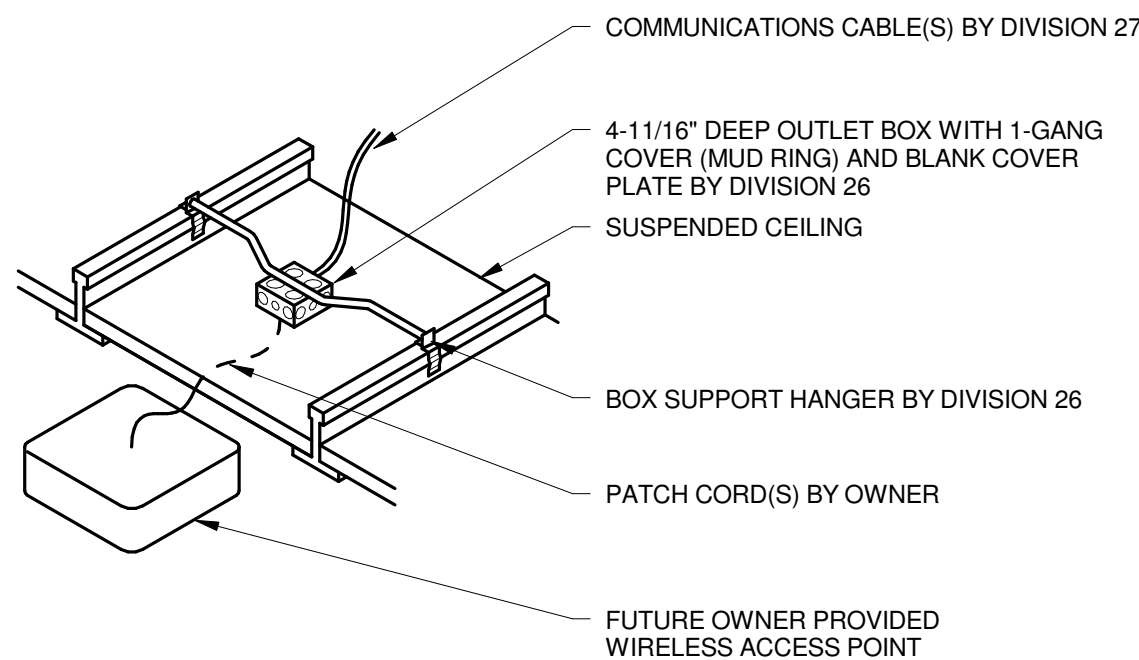
ISSUE FOR BID

2	ADDENDUM 2	03/05/2019
	ISSUE FOR BID	02/07/2019
	ISSUE FOR PERMIT	01/17/2019
No.	REVISION/SUBMISSION	DATE

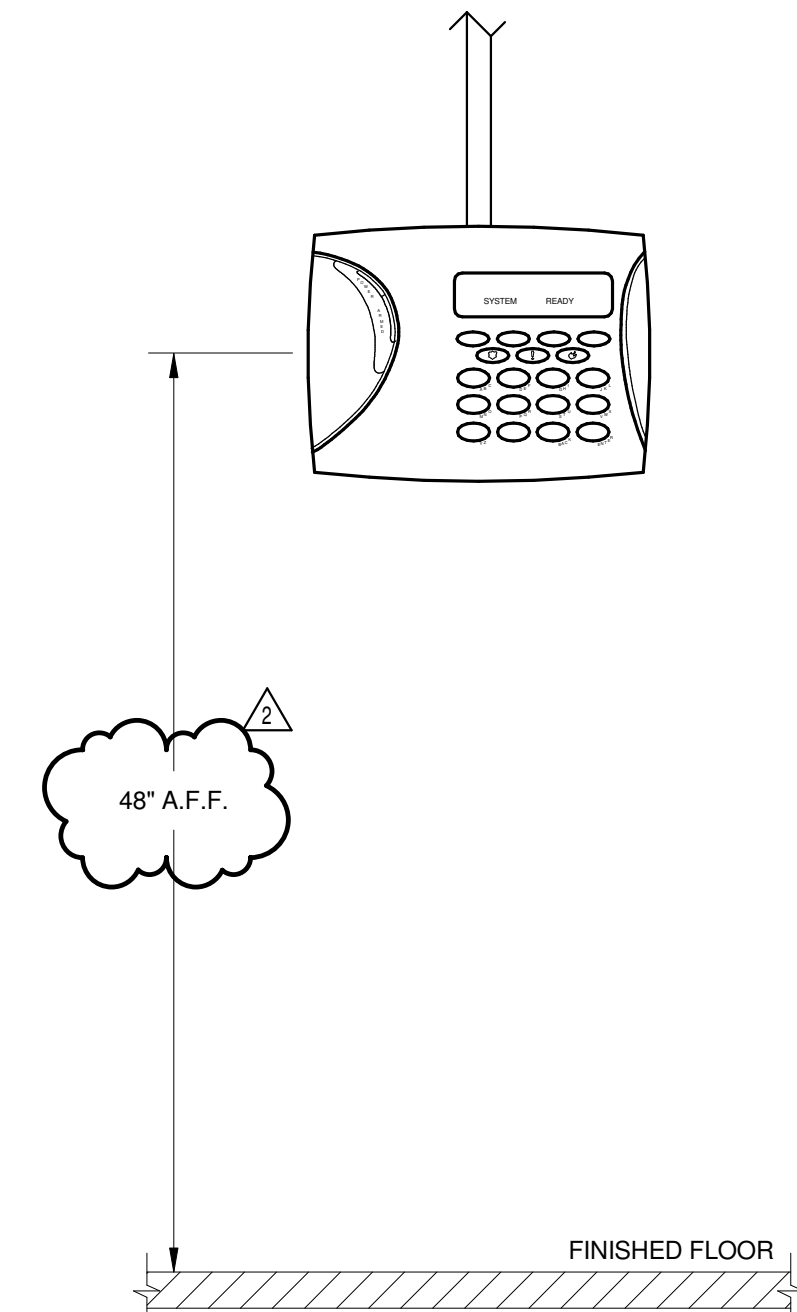
PROJECT No: 1303500-160264.01

LEVEL 1 FLOOR PLAN AREA
C - AUDIO/VISUAL

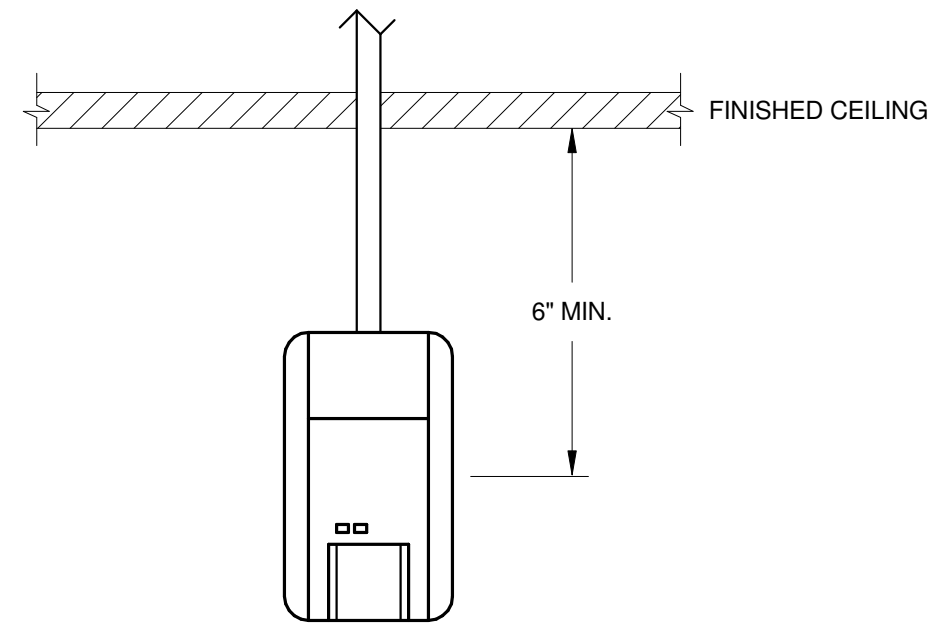
T-143



7 WAP - CEILING MOUNT
NO SCALE

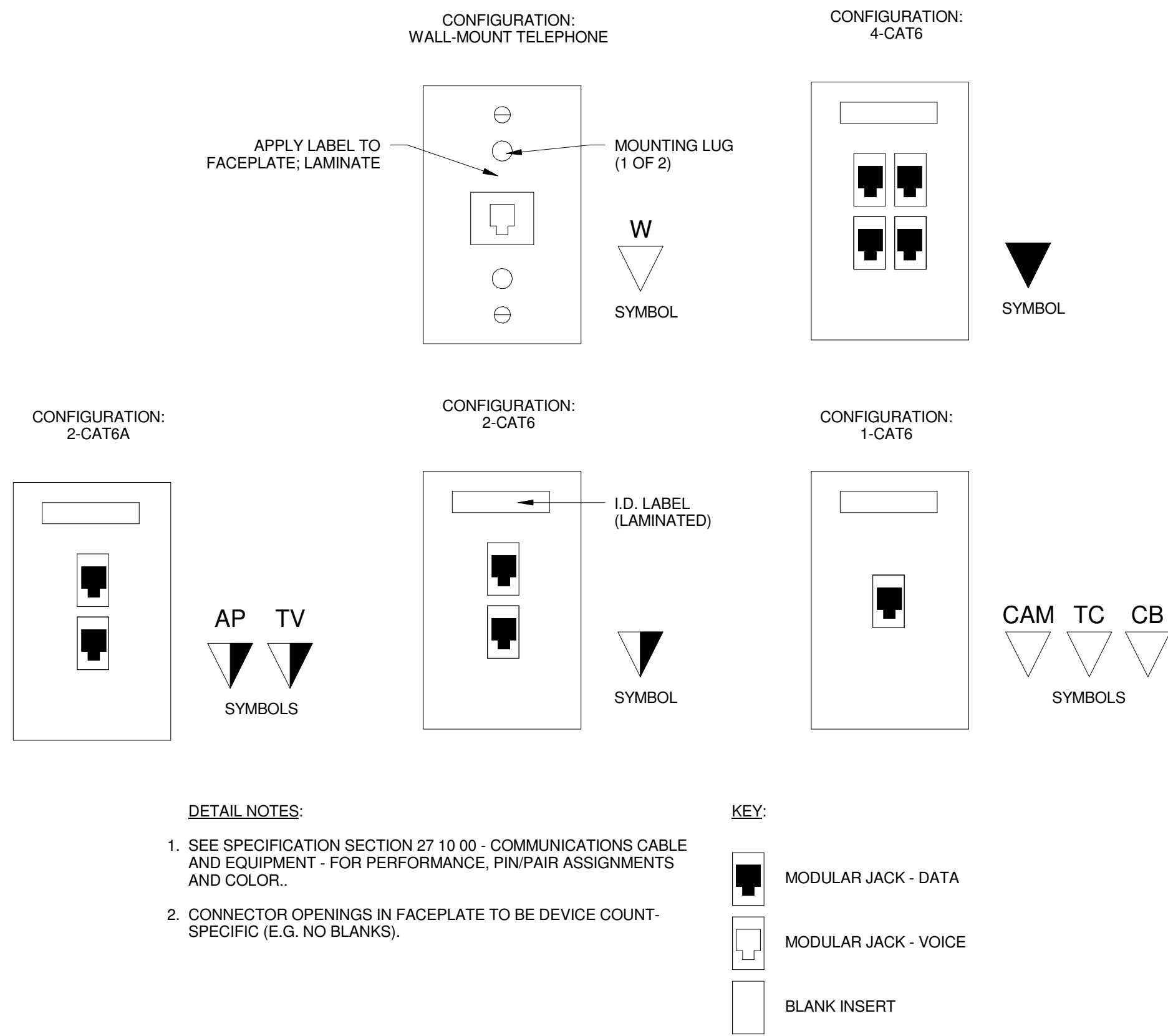


8 SURFACE MOUNTED KEYPAD DEVICE
NO SCALE

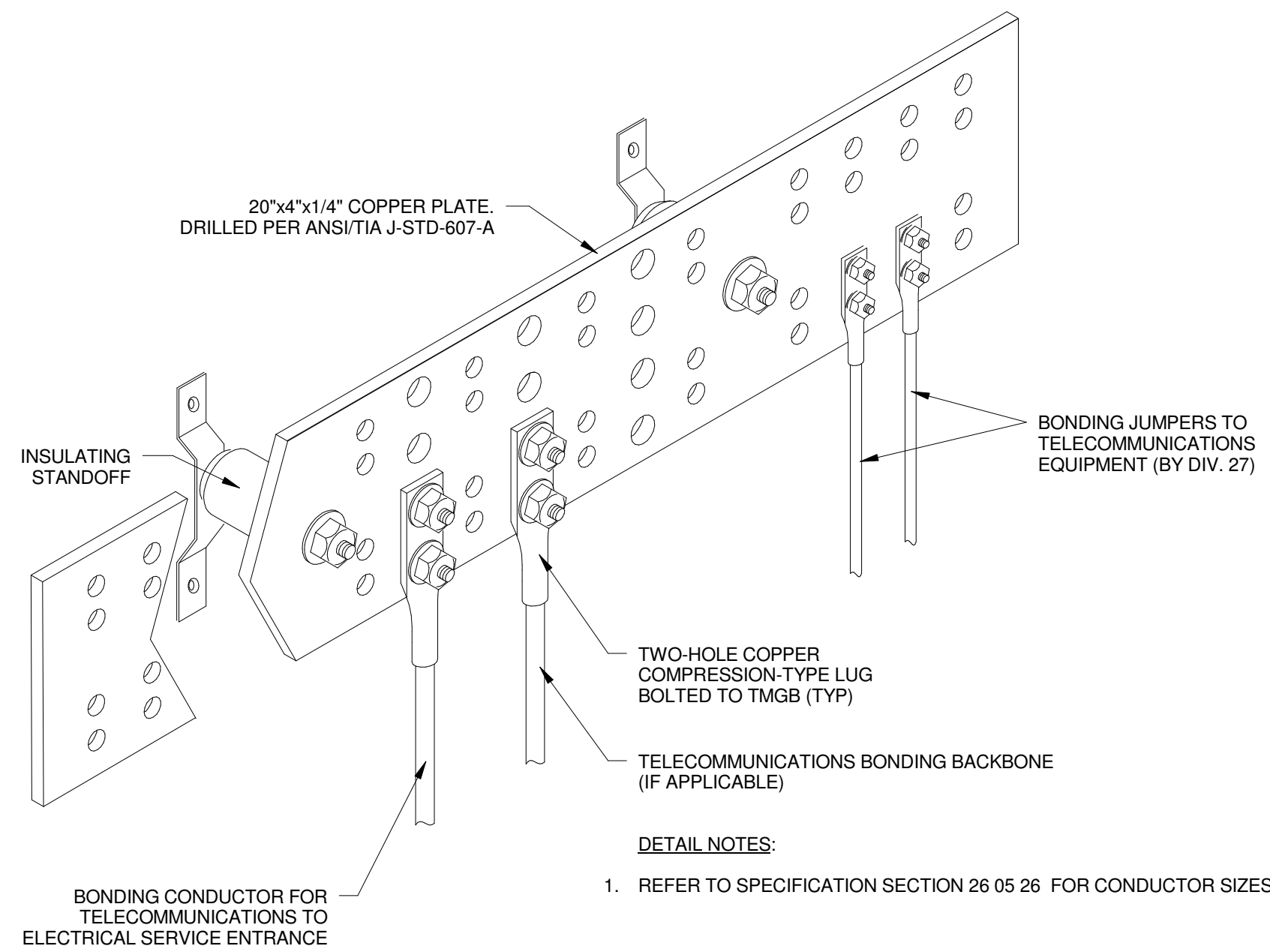


- NOTES:
1. LOCATE UNIT SO THE EXPECTED INTRUDER MOVEMENT IS ACROSS THE DETECTION PATTERN FIELDS
 2. DO NOT LOCATE UNIT ON A SURFACE EXPOSED TO MOISTURE.
 3. DO NOT LOCATE UNIT IN ANY AREA CONTAINING EXCESSIVE METALLIC SURFACES.
 4. DO NOT LOCATE UNIT WHERE IT MAY BE EXPOSED TO FALSE ALARM SOURCES SUCH AS: DIRECT SUNLIGHT, HEAT SOURCES (HEATERS, RADIATORS, ETC.) IN THE FIELD OF VIEW OR STRONG AIR DUCTS (FANS, AIR CONDITIONER, ETC.)
 5. DO NOT LOCATE UNIT WHERE AMBIENT TEMPERATURE IS BELOW 32°F (0°C) OR ABOVE 131°F (55°C).

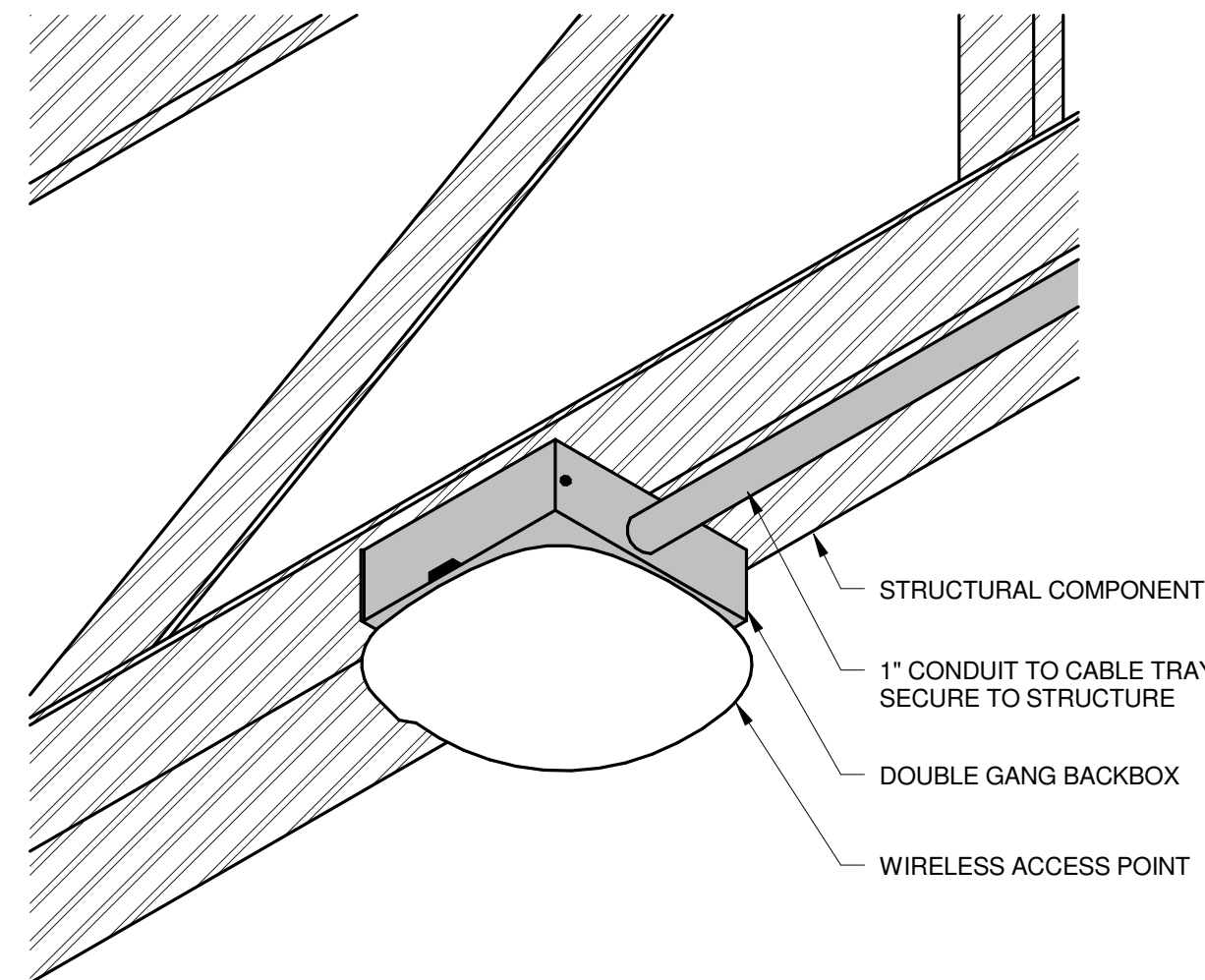
9 SURFACE MOUNTED INFRARED MOTION DETECTOR
NO SCALE



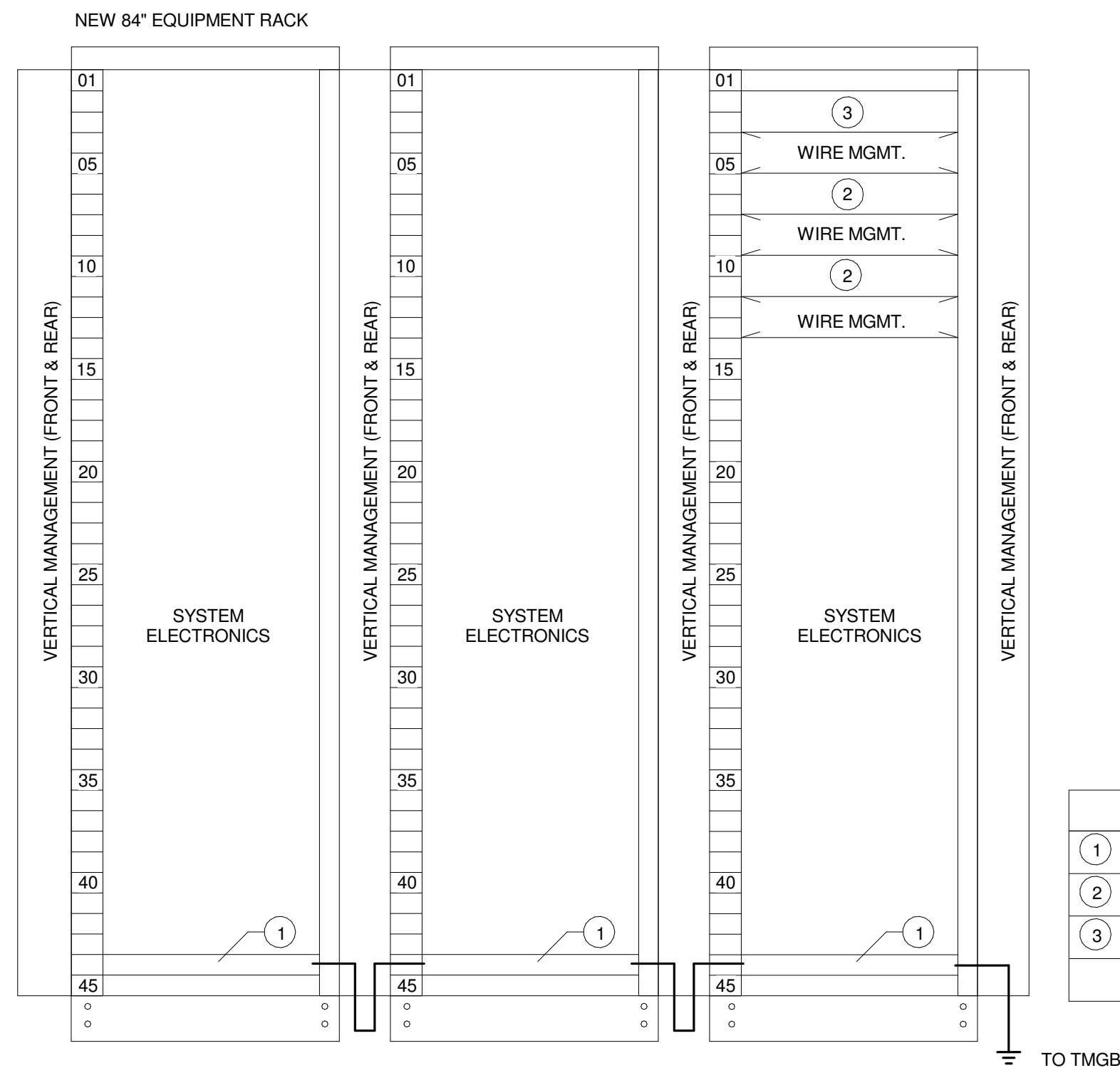
4 TO LAYOUTS
NO SCALE



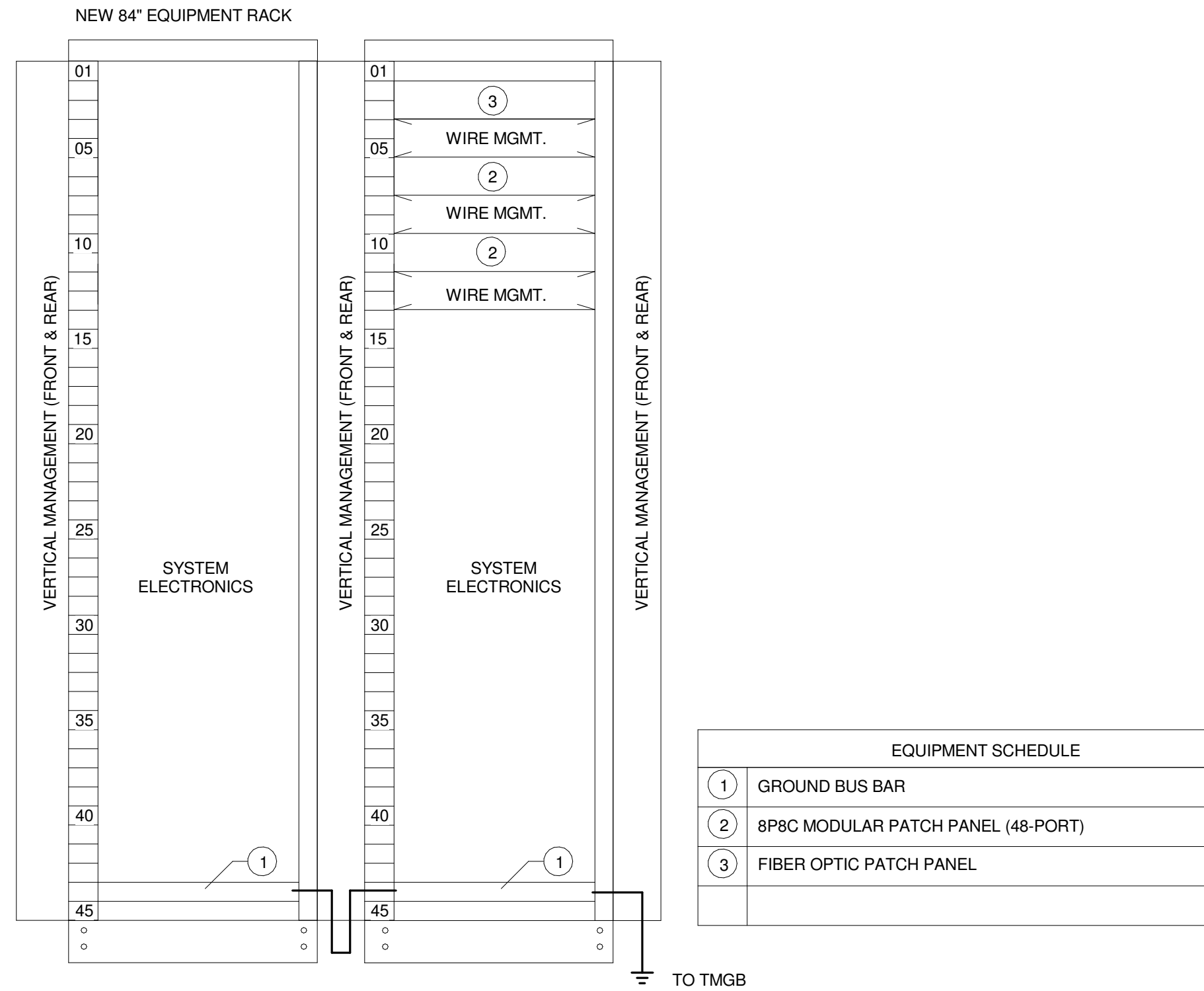
5 TMGB
NO SCALE



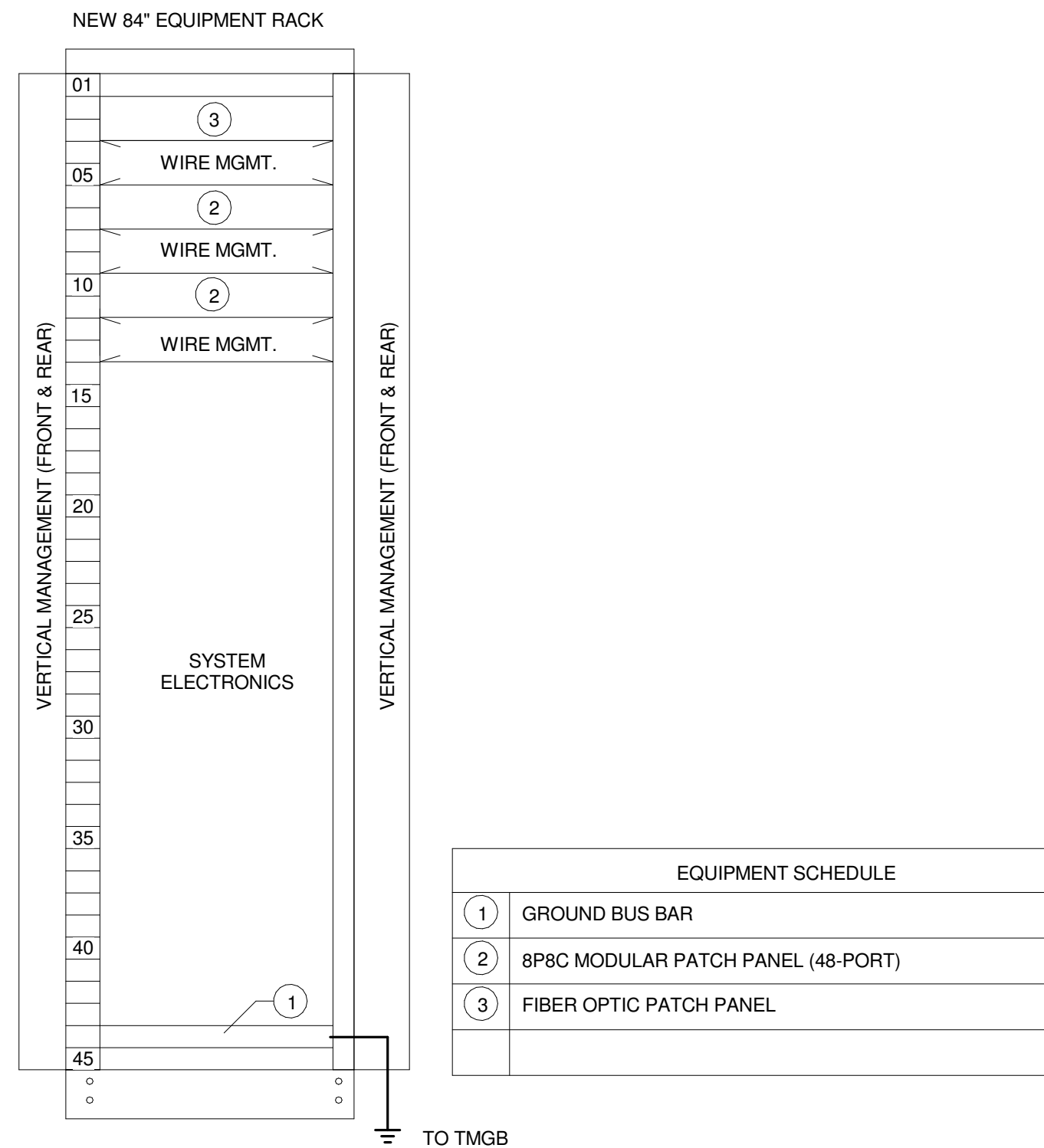
6 WAP - PENDANT MOUNT
NO SCALE



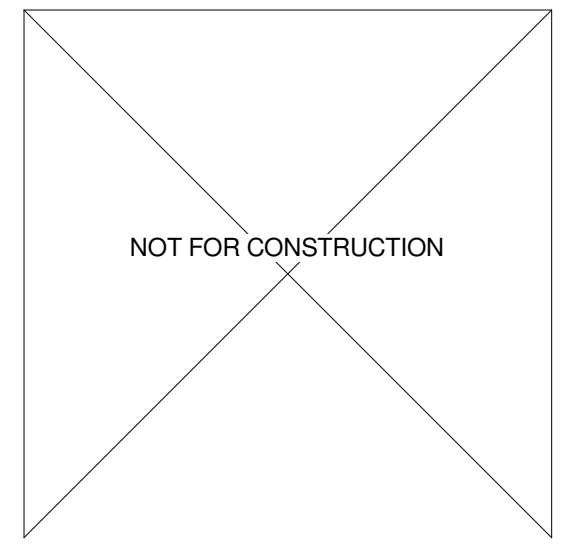
1 ROOM 1037 RACK LAYOUT
NO SCALE



2 ROOM 1143 RACK LAYOUT
NO SCALE



3 ROOM 2004 RACK LAYOUT
NO SCALE



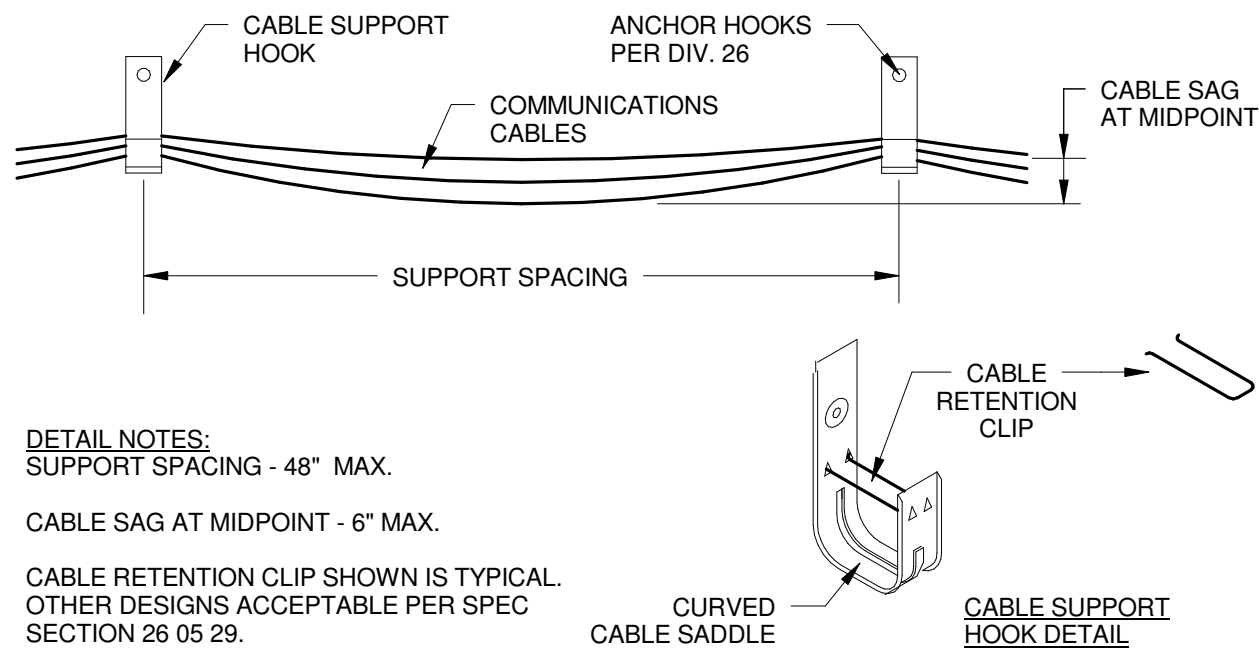
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DATE: 01/11/2019
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DATE: 01/11/2019

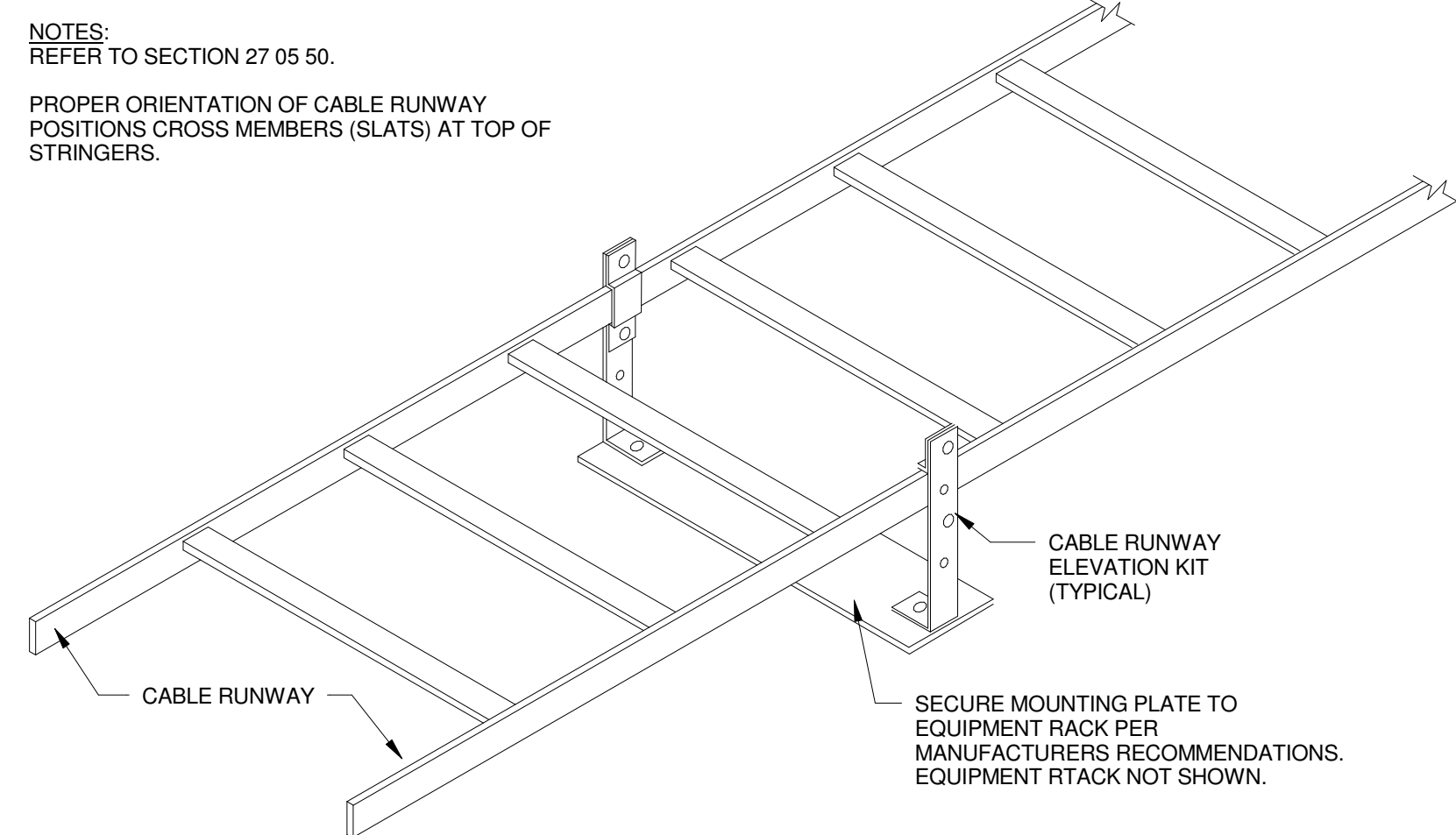
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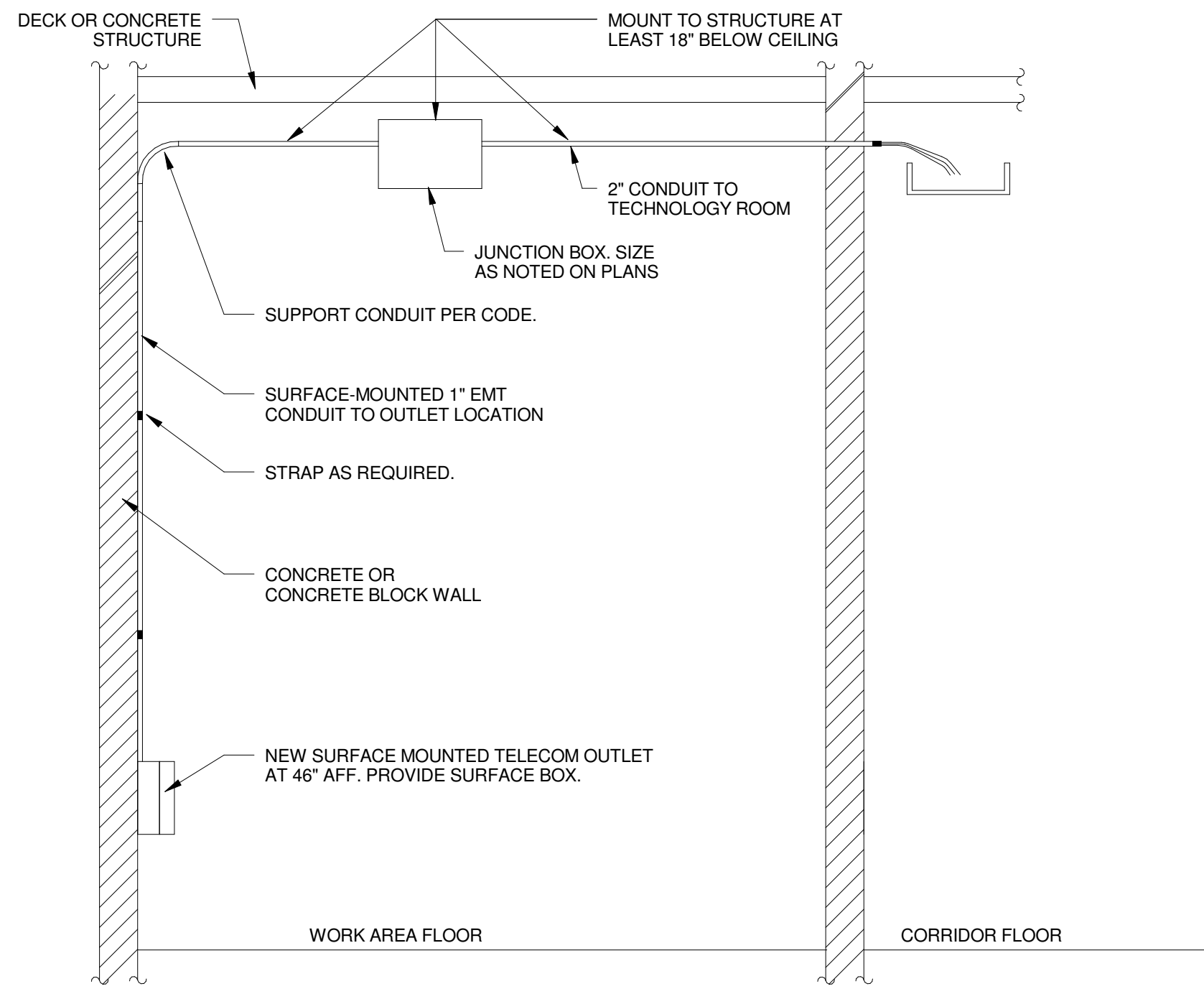
DETAIL NOTES:
SUPPORT SPACING - 48" MAX.
CABLE SAG AT MIDPOINT - 6" MAX.
CABLE RETENTION CLIP SHOWN IS TYPICAL.
OTHER DESIGNS ACCEPTABLE PER SPEC
SECTION 28.05.25.

4 TO PATHWAY - J-HOOKS
NO SCALE



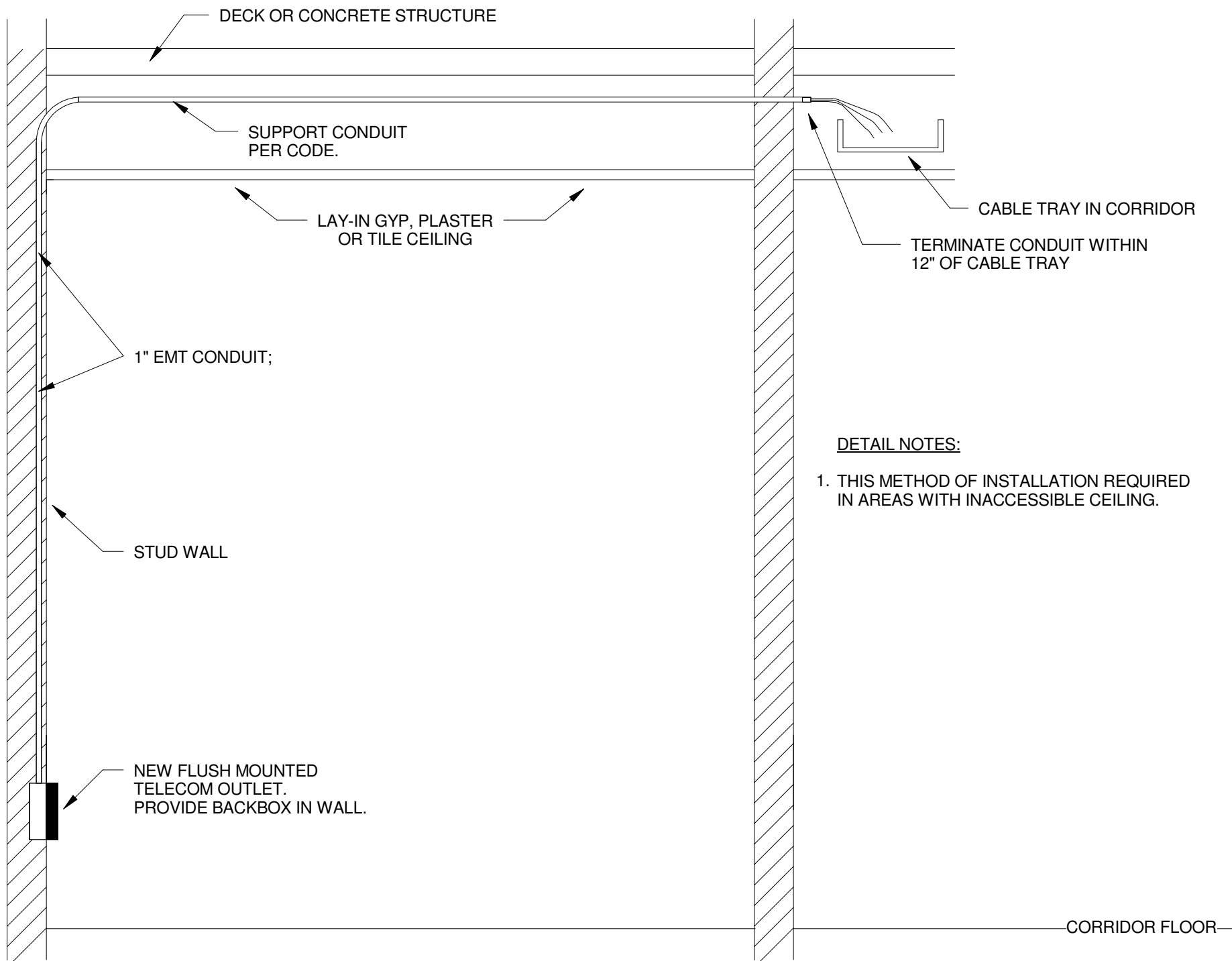
NOTES:
REFER TO SECTION 27.05.50.
PROPER ORIENTATION OF CABLE RUNWAY
POSITIONS CROSS MEMBERS (SLATS) AT TOP OF
STRINGERS.

1 CABLE RUNWAY/RACK
NO SCALE



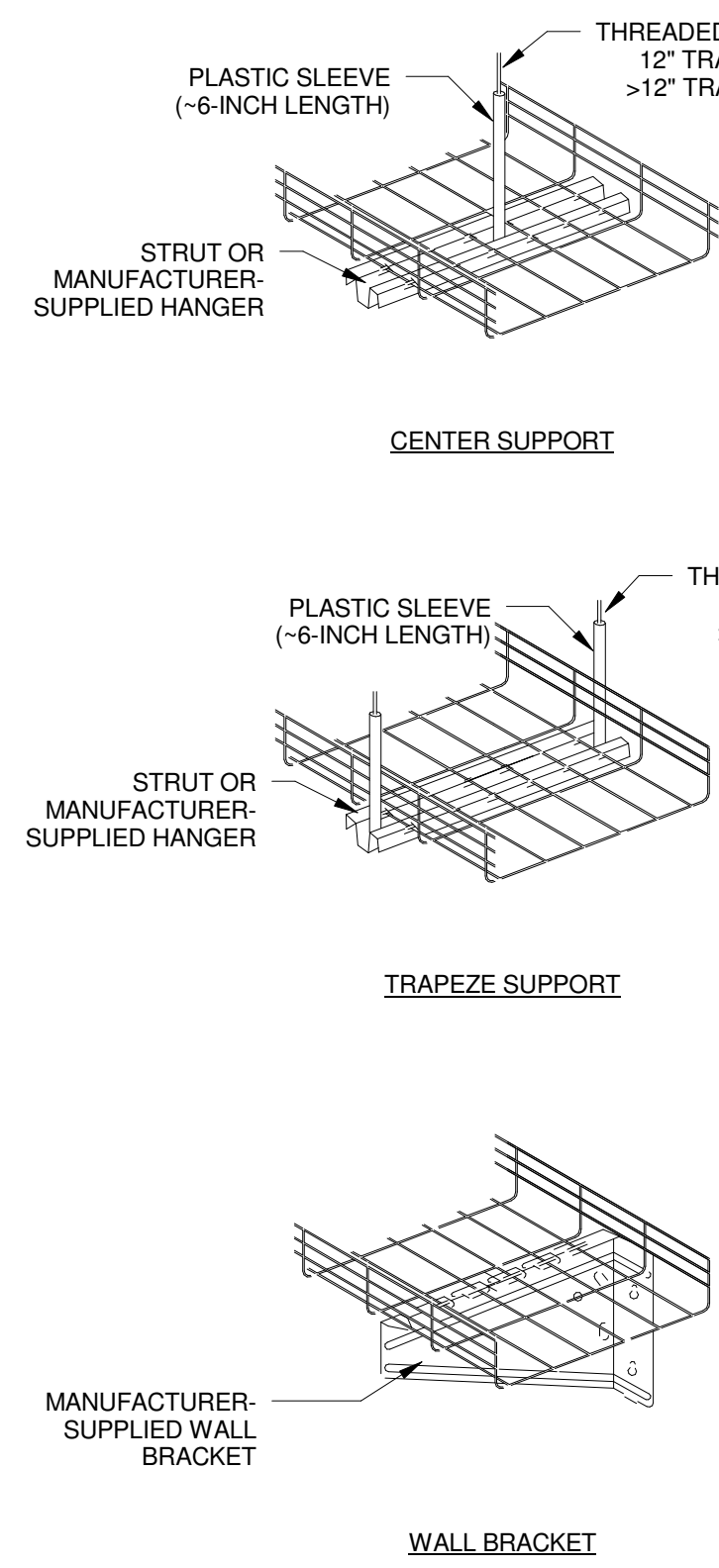
NOTE:
ALL RACEWAYS IN THIS ROOM SHALL BE LOCATED SO THAT THEY ARE MORE
THAN 18" ABOVE FINISHED FLOOR AND MORE THAN 18" BELOW BOTTOM OF
CEILING. WHERE THIS IS NOT POSSIBLE, RACEWAYS SHALL BE INSTALLED AND
RATED FROM CLASS 1, DIVISION 2 IN ACCORDANCE WITH NEC ARTICLE 901.

7 TO PATHWAY - BAY OUTLETS
NO SCALE



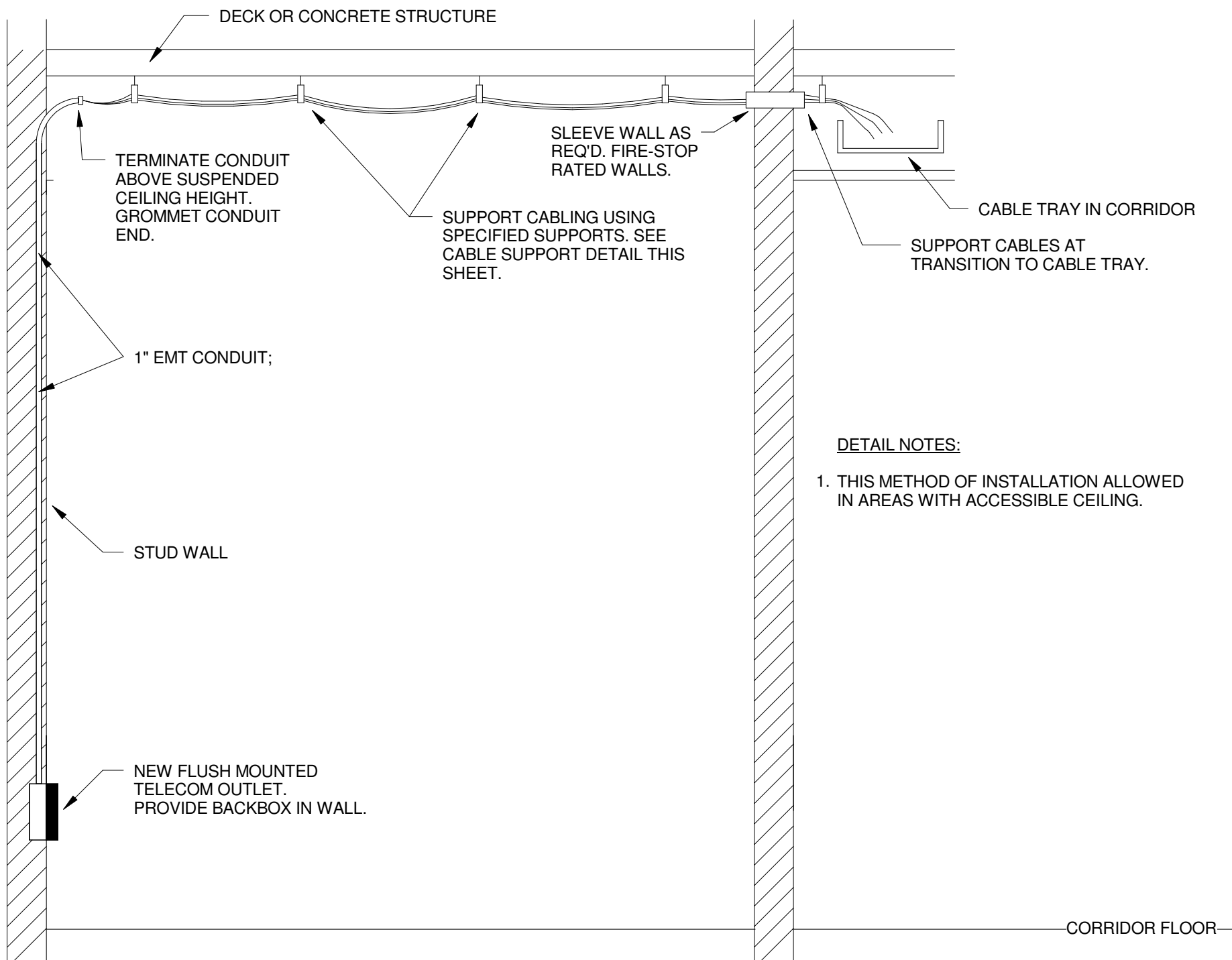
DETAIL NOTES:
1. THIS METHOD OF INSTALLATION REQUIRED
IN AREAS WITH INACCESSIBLE CEILING.

5 TO PATHWAY - FLUSH - CONDUIT TRAY
NO SCALE



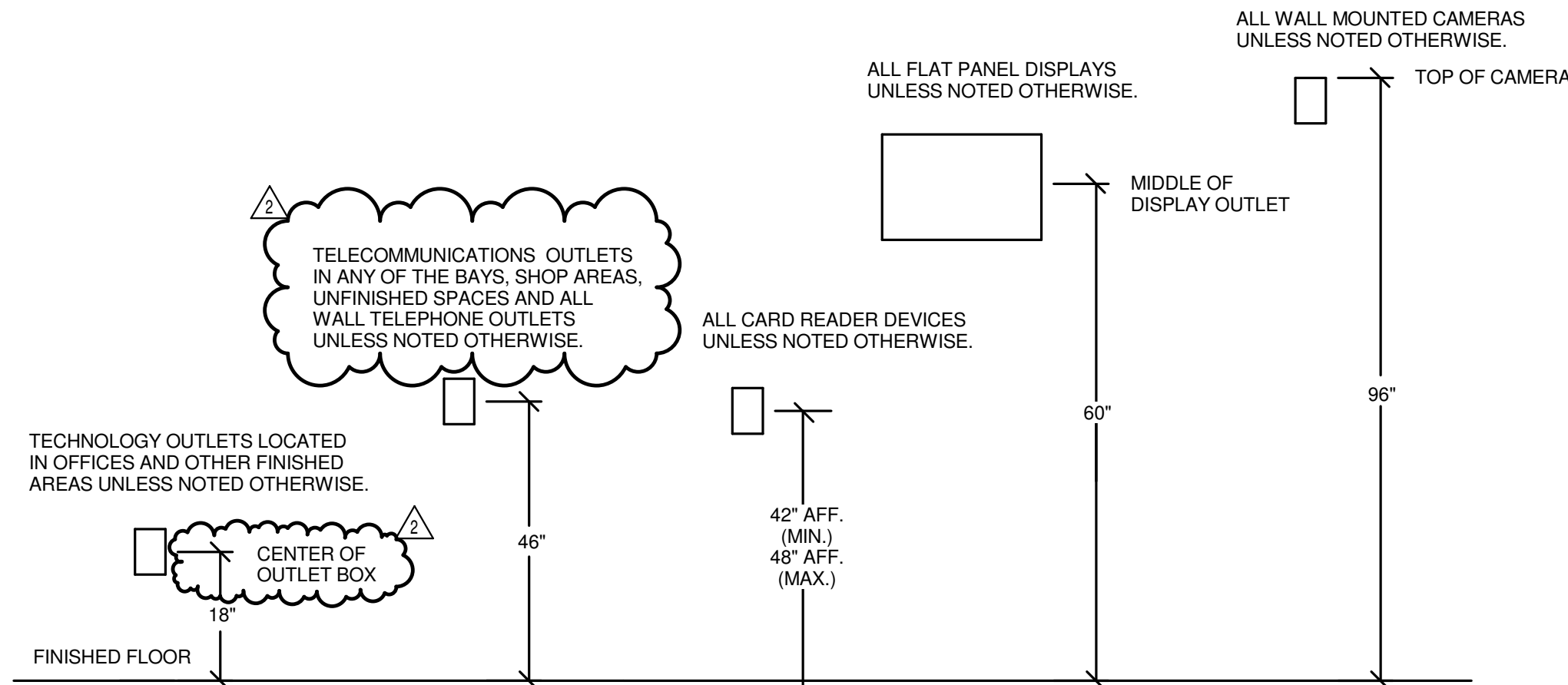
CABLE TRAY DETAIL GENERAL NOTES:
REFER TO SPECIFICATION SECTION 26.05.36 FOR TRAY SPACING AND OTHER
INSTALLATION REQUIREMENTS.
SEE PLAN DRAWINGS FOR WIDTH(S) AND DEPTH(S).
ANCHOR THREADED ROD TO STEEL WITH BEAM CLAMPS OR USING STEEL
DROP-IN ANCHORS. PLASTIC OR LEAD TYPE ANCHORS ARE NOT APPROVED.
COORDINATE WITH OTHER TRADES TO MAINTAIN CLEARANCE OF ONE (1)
FOOT ON BOTH SIDES OF THE TRAY AND EIGHT (8) INCHES ABOVE TOP OF
THE TRAY.
PROVIDE ALL ANGLES, TEE'S, CROSSES, SPLICES, ACCESSORIES, ETC. AS
REQUIRED.
PROVIDE OFFSETS AS REQUIRED TO CHANGE ELEVATIONS AS
OBSTRUCTIONS DICTATE. WHERE CABLE TRAY CONTINUITY CANNOT BE
MAINTAINED, PROVIDE STRAP BONDED TO ADJACENT TRAY SECTIONS.
MAINTAIN MINIMUM SEPARATION DISTANCES FROM <480V POWER LINES AS
FOLLOWS:
12" FROM POWER LINES OF <5-KVA
18" FROM HIGH VOLTAGE LIGHTING (INCL. FLUORESCENT)
36" FROM POWER LINES OF 5-KVA OR GREATER
36" FROM TRANSFORMERS AND MOTORS.
PROVIDE RADIUS DROP-OUT AT LOCATIONS WHERE CABLE EXITS THE
TRAY.
CENTER SUPPORT SHALL ONLY BE USED ON TRAY WITH 8" WIDTH AND LESS.

2 CABLE TRAY
NO SCALE



DETAIL NOTES:
1. THIS METHOD OF INSTALLATION ALLOWED
IN AREAS WITH ACCESSIBLE CEILING.

6 TO PATHWAY - FLUSH FREEAIR
NO SCALE



TELECOMMUNICATIONS OUTLETS
IN ANY OF THE BAYS, SHOP AREAS,
UNFINISHED SPACES AND ALL
WALL TELEPHONE OUTLETS
UNLESS NOTED OTHERWISE.

TECHNOLOGY OUTLETS LOCATED
IN OFFICES AND OTHER FINISHED
AREAS UNLESS NOTED OTHERWISE.

ALL FLAT PANEL DISPLAYS
UNLESS NOTED OTHERWISE.

ALL WALL MOUNTED CAMERAS
UNLESS NOTED OTHERWISE.

3 DEVICE MOUNTING HEIGHTS DETAIL
NO SCALE



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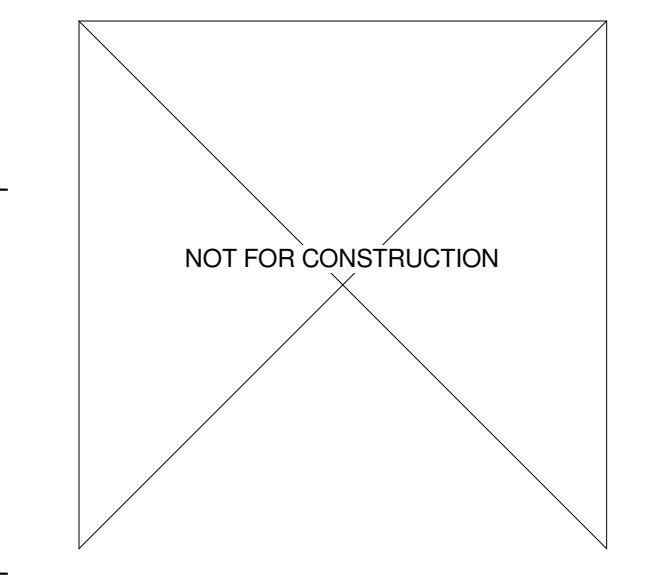


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DETAILS

T-502