



DATE: December 5, 2019

FROM: Wight & Company
2500 N. Frontage Road
Darien, IL 60561

SUBJECT: ADDENDUM #2 TO THE BIDDING DOCUMENTS FOR:
BID GROUP #8
MASTER FACILITY PLAN IMPLEMENTATION
COMMUNITY HIGH SCHOOL DISTRICT 99
1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

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This addendum forms a part of the Bidding Contract Documents, dated November 20, 2019. Bidders must acknowledge receipt of this Addendum in the space provided on the Bid Form. Drawing revisions clouded and tagged throughout with delta 36.

SOUTH

Questions & Answer Log
Notice to Bidders-revised
Bid Packages - #80, #81 and #91 revised scope of work.
Bid Packages - #81 and #91 revised bid forms.
1963 Existing Building Reference Drawings

I. Clarifications

1. **CLARIFICATION:** *The lavatories in the multi-user toilet rooms are currently tagged as LAV-2A. The fixture selections for these rooms are still being finalized with the owner. These fixtures will be specified in an upcoming addendum.*
2. **QUESTION:** Detail 2 on page A7.16 calls out fire rated glazing at the CW, and the floor plan makes note of a 1 hour fire rated system as well. The glass is detailed as GL-3 (9/16" laminated). Could you please specify if this is to be non-fire rated, or if an entire fire rated assembly (framing & glass) is required. **ANSWER:** *Glass type has been revised to indicate correct fire glazing. A fire-rated assembly is required. Refer to specification 084418.23 included within.*
3. **QUESTION:** There are rarely any dimensions on the frames, will these be released via addendum? Will the door hardware spec be released via addendum as well? The specifications state a 1600 System 1 (captured), but some of the architectural details show a Clearwall system. Please advise. **ANSWER:** *Dimensions have been added as required. Door hardware specification and hardware set assignments have been included within. Specifications will be revised for the curtainwall in the next addendum to reflect what is graphically shown.*

4. **QUESTION:** For the storm drainage piping insulation, the spec calls for all horizontal and vertical pipe runs to be insulated. Typically, only the first 20' from the roof drain is insulated. Can you clarify which is correct? **ANSWER: Storm piping is to be insulated throughout per spec section 220719. Limiting the insulation to the first 20'-0" from the roof drain is not acceptable.**
5. **QUESTION:** Specs seem to imply a water-based primer for the exposed steel. Please confirm that we can use a solvent based shop primer similar to primer listed in specs (eg SW KemBond HS) **ANSWER: Water based primer shall be required for field touch-up. Solvent based primer shall be utilized for off-site application.**
6. **QUESTION:** Reference detail2/S2.8C-EP: The drawings do not seem to call out what the floor of this catwalk is. The Arch drawings call out plate but not thickness. On the main catwalk 1/4" plate is called out. Does this catwalk require a 1/4" PL also? **ANSWER: 1/4" steel plate is required.**
7. **QUESTION:** Please include sheet A6.19 if it pertains to this phase of construction. **ANSWER: Sheet A6.19 has been included within.**
8. **QUESTION:** Glass type GL-09 and its aluminum framing in Studio Theater is it required to achieve a certain STC Value? **ANSWER: There is no minimum STC rating for this assembly.**

II. Specifications

1. REVISE Section 012300 – ALTERNATES
 - a. Add Alternates 8.8 and 8.9
2. ADD Section 084418.23 – INTERIOR GLAZED STEEL FIRE-RATED CURTAIN WALLS
3. ADD Section 087111 – DOOR HARDWARE
 - a. Refer to sheet A8.12 for hardware set assignments
4. REVISE Section 088000 - GLAZING
5. REVISE Section 221413, Paragraph 3.10: ADD the following paragraph:
 - E. Underground draitile piping shall be:
 1. Perforated PVC pipe, PVC socket fittings.
6. REVISE Section 221413: ADD the following paragraph:
 - 2.6 PERFORATED PVC PIPE AND FITTINGS
 - A. Perforated PVC Pipe: ASTM D 2665, drain, waste and vent. Piping shall have two rows of holes, 1/2" diameter on 5" centers, 120 degree apart.
 - B. PVC Socket Fittings: ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe.
7. ADD Section 221429 – Sump Pumps
8. ADD Section 224200 – Commercial Plumbing Fixtures
9. REVISE Section 230713 – Duct Insulation to include section 3.11 OUTDOOR DUCT INSULATION SCHEDULE

III. Modified Drawings

STRUCTURAL

1. Sheet S0.1C GENERAL NOTES AND MATERIAL ALLOWANCES (**Full size sheet reissued**)
 - a. Revised tonnages for the steel material allowance summary.

2. Sheet S1.1C TYPICAL SECTIONS AND DETAILS (**Full size sheet reissued**)
 - a. Revised typical detail 13.
3. Sheet S1.4C TYPICAL SECTIONS AND DETAILS (**Full size sheet reissued**)
 - a. Revised typical detail 5.
4. Sheet S1.6C TYPICAL SECTIONS AND DETAILS (**Full size sheet reissued**)
 - a. Removed detail 14.
 - b. Renumbered details 15-19
 - c. Added typical details 18, 20 and 21.
5. Sheet 2.0C-F BASEMENT LEVEL FOUNDATION PLAN - AREA F (**Full size sheet reissued**)
 - a. Revised plan notes 23, 26, 30.
 - b. Added plan notes 35-36
 - c. Revised working point to the north-east corner of the auditorium
 - d. Revised language in note related to sheet piling near grid N.14/N.M
 - e. Removed large backfill note from the plan. Refer to backfill requirements on S0.1C.
 - f. Added section 5/S3.3C-F
 - g. Added elevation 6/S4.6C-F
 - h. Replaced a basement wall with a column footing/pier near N.4/N.N
 - i. Revised footing size near same location.
6. Sheet 2.1C-F LEVEL 1 FOUNDATION PLAN - AREA F (**Full size sheet reissued**)
 - a. Revised plan notes 23, 26, 30.
 - b. Added plan notes 35-36
 - c. Revised working point to the north-east corner of the auditorium
 - d. Revised slab-on-grade information at the events lobby
 - e. Revised N.1/N.A pier information
 - f. Added stepped footing requirements at 4 locations where storm drain and sanitary piping crosses wall footings.
 - g. Revised slab-on-grade step location near the southwest corner of the studio theatre
 - h. Revised slab-on-grade information in the main auditorium box
 - i. Added elevation 6/S4.6C-F
 - j. Revised note referencing the built-up CFMF at auditorium seating
 - k. Revised footing elevation at N.4/N.P and N.4/N.Q
7. Sheet 2.1C-F-EP1 ENLARGED FOUNDATION PLANS (**Full size sheet reissued**)
 - a. Plan 1:

- i. Revised top of wall elevations at wall openings along grid N.J
 - ii. Revised footing information near N.3/N.H
 - iii. Revised framing above rigging pit
 - iv. Added detail 1/S3.12C-F
 - v. Replaced a basement wall with a column footing/pier near N.4/N.N
 - vi. Detailed top of wall along west side of orchestra pit per clouded plan note
 - vii. Revised cantilever beam girder at orchestra pit
 - viii. Added detail 6/S3.2C-F
 - ix. Added elevation 6/S4.6C-F
 - x. Revised slab-on-grade information in auditorium
 - xi. Added section 2/S3.4C-F near southern cheek wall area
 - xii. Added section 2/S3.12C-F
8. Sheet S2.2C-F LEVEL 2 AND LOW ROOF FRAMING PLANS - AREA F (**Full size sheet reissued**)
- a. Added a support beam for the studio theater curtain
9. Sheet S2.6C-F-EP ENLARGED PLANS (**Full size sheet reissued**)
- a. Revised plan information on plans 7 and 8
10. Sheet S2.7C-F-EP ENLARGED PLANS (**Full size sheet reissued**)
- a. Revised plan information on plans 2 and 3.
11. Sheet S2.8C-F-EP ENLARGED PLANS (**Full size sheet reissued**)
- a. Revised plan information on plan 2
12. Sheet S3.1C-F NON-TYPICAL SECTIONS AND DETAILS (**Full size sheet reissued**)
- a. Revised details 1, 5, 6-9.
13. Sheet S3.2C-F NON-TYPICAL SECTIONS AND DETAILS (**Full size sheet reissued**)
- a. Revised all details on this sheet.
14. Sheet S3.3C-F NON-TYPICAL SECTIONS AND DETAILS (**Full size sheet reissued**)
- a. Revised all details on this sheet.
15. Sheet S3.4C-F NON-TYPICAL SECTIONS AND DETAILS (**Full size sheet reissued**)
- a. Revised all details on this sheet.
16. Sheet S3.5C-F NON-TYPICAL SECTIONS AND DETAILS (**Full size sheet reissued**)
- a. Revised all details on this sheet.

17. Sheet S3.12C-F NON-TYPICAL SECTIONS AND DETAILS (**Full size sheet issued**)
 - a. New sheet added.
18. Sheet S4.1C-F AREA F - AUDITORIUM - ELEVATIONS (**Full size sheet reissued**)
 - a. Revised notes on all 3 elevations
19. Sheet S4.2C-F AREA F PRECAST ELEVATIONS (**Full size sheet reissued**)
 - a. Revised notes on elevations 1 and 2
20. Sheet S4.6C-F FOUNDATION ELEVATIONS (**Full size sheet reissued**)
 - a. Revised notes on elevation 2
 - b. Revised footing size on elevation 5
 - c. Added elevation 6
21. Sheet SD2.0C-F BASEMENT LEVEL STRUCTURAL DEMOLITION PLAN - AREA F (**Full size sheet reissued**)
 - a. Added section 2 on the sheet.
22. Sheet SD2.1C-F LEVEL 1 DEMOLITION PLAN - AREA F (**Full size sheet reissued**)
 - a. Added section 2 on the sheet.

ARCHITECTURAL

23. Sheet AD2.11F DEMO PLAN LEVEL 1 AREA F (**Full size sheet issued**)
 - a. Added note to demolish existing slab on grade
24. Sheet A2.10F FLOOR PLAN LOWER LEVEL 1 AREA F (**Full size sheet issued**)
 - a. Added keynote #92
25. Sheet A2.11B FLOOR PLAN LEVEL 1 AREA B (**Full size sheet issued**)
 - a. Added dimensions and keynotes clarifying curtainwall, interior aluminum partition, and fire-rated curtainwall locations.
26. Sheet A2.11D FLOOR PLAN LEVEL 1 AREA D (**Full size sheet reissued**)
 - a. Keynote 22 added to Interior Aluminum Partition locations.
 - b. Horizontal dimensions added for reference.
27. Sheet A2.11F FLOOR PLAN LOWER LEVEL 1 AREA F (**Full size sheet reissued**)
 - a. Added detail callout 10/A7.34
 - b. Added section detail 5/A5.16
 - c. Added horizontal dimensions on curtainwall locations.
28. Sheet A2.12B FLOOR PLAN LEVEL 2 AREA B (**Full size sheet reissued**)

- a. Horizontal dimensions of curtainwall clarified.
29. Sheet A2.12F FLOOR PLAN LEVEL 2 AREA F (**Full size sheet issued**)
- a. Revised partitions types at office area
 - b. Added note locating the lower ante-pro access floor
30. Sheet A2.13F FLOOR PLAN LEVEL 2 AREA F (**Full size sheet issued**)
- a. Added partition types
 - b. Added dimensions at Lobby 3-605
31. Sheet A5.16 EXTERIOR WALL SECTIONS & DETAILS PHASE C (**Full size sheet reissued**)
- a. Added detail 5 transition between stage floor and slab on grade
32. Sheet A5.18 EXTERIOR WALL SECTIONS & DETAILS PHASE C (**Full size sheet reissued**)
- a. Revised detail 13 to include diagonal bracing and removed blocking above curtain wall
33. Sheet A6.19 STAIR, RAMP, & ELEVATOR SECTIONS & DETAILS (**Full size sheet issued**)
- a. Sheet included for reference.
34. Sheet A7.16 INTERIOR ELEVATIONS & DETAILS - PHASE C (**Full size sheet reissued**)
- a. Revised glass type in Elevation 2 to GL-25.
 - b. Vertical dimensions added for reference on Elevations 1 and 2.
35. Sheet A7.17 INTERIOR ELEVATIONS & DETAILS - PHASE C (**Full size sheet reissued**)
- a. Vertical dimensions added for reference on Elevation 1.
36. Sheet A7.22 INTERIOR WALL SECTIONS & DETAILS PHASE S (**Full size sheet reissued**)
- a. Revised detail 10 to include new slab on grade & rebar information at new CMU wall
37. Sheet A7.25 INTERIOR WALL SECTIONS & DETAILS PHASE S (**Full size sheet reissued**)
- a. Revised section 1 to show ship ladder
 - b. Added notes to sections 1, 3 & 4
38. Sheet A7.26 AUDITORIUM SECTIONS & DETAILS PHASE C (**Full size sheet reissued**)
- a. Revised detail 8 to include non-structural topping slab over geofoam
39. Sheet A7.34 INTERIOR PLAN DETAILS PHASE C (**Full size sheet reissued**)
- a. Added detail 10 for expansion joint along 1" isolation joint
 - b. Added detail 4 regarding cheek wall vertical reveals
40. Sheet A7.40 AUDITORIUM CHEEK WALL (**Full size sheet issued**)

- a. Added new sheet for cheek wall framing
41. Sheet A7.41 AUDITORIUM CHEEK WALL (**Full size sheet issued**)
- a. Added new sheet
42. Sheet A8.12 DOOR & WINDOW SCHEDULES & DETAILS – PHASE C (**Full size sheet reissued**)
- a. Added acoustic door details for designations D1, D2, D3, and D4.
 - b. Added hardware set assignments
- PLUMBING**
43. Sheet P1.10B.c SANITARY & DRAINAGE FLOOR PLAN – UNDERGROUND AREA B (PHASE C) (**Full size sheet reissued**)
- a. Revised sanitary main leaving the addition to the north from 4" to 8". Adjusted affected floor cleanout sizes.
44. Sheet P1.10F SANITARY & DRAINAGE FLOOR PLAN – UNDERGROUND AREA F (**Full size sheet reissued**)
- a. Added drantile piping to the basement addition.
 - b. Added new duplex sump pump system SP-1 to the basement, and affected pump discharge/downspout piping.
45. Sheet P1.11B.c SANITARY & DRAINAGE FLOOR PLAN – LEVEL 1 AREA B (PHASE C) (**Full size sheet reissued**)
- a. Revised floor cleanout size.
46. Sheet P1.11F SANITARY & DRAINAGE FLOOR PLAN – LEVEL 1 AREA F (**Full size sheet reissued**)
- a. Removed hub drain to office.
47. Sheet P4.03 PLUMBING SCHEDULES (**Full size sheet reissued**)
- a. Added sump pump schedule SP-1.
 - b. Added model numbers to elevator pit pump schedule.
 - c. Removed fixture schedules for water closets, urinals, sinks, cleanouts, etc. These fixtures are specified in spec sections 221119, 221319, 221423, and 224200.
48. Sheet P5.03 DETAILS (**Full size sheet reissued**)
- a. Added typical identification markers and lavatory details.
49. Sheet P5.04 DETAILS (**Full size sheet issued**)
- a. Added sheet.
50. Sheet PD1.10B.c PLUMBING DEMOLITION - LOWER LEVEL AREA B (PHASE C) (**Full size sheet reissued**)
- a. Added demolition of existing pump discharge piping.

51. Sheet PD1.11B.c PLUMBING DEMOLITION – LEVEL 1 AREA B (PHASE C) **(Full size sheet reissued)**

- a. Added demolition of existing pump discharge piping.

ELECTRICAL

52. Sheet E2.001F-1c LOWER LEVEL POWER PLAN AREA F **(Full size sheet reissued)**

- a. Power for CCP-14 in the lower level tunnel - Added a keynote for exact location coordination.
- b. Added power for newly added sump pump SP-1

53. Sheet E2.01A-1c FIRST FLOOR POWER PLAN AREA A **(Full size sheet reissued)**

- a. Added power for short throw projector in community room-A

54. Sheet E2.01B-1c FIRST FLOOR POWER PLAN AREA B **(Full size sheet reissued)**

- a. Added power for a TV screen below Southwest stairs

55. Sheet E2.01D-1c FIRST FLOOR POWER PLAN AREA D **(Full size sheet reissued)**

- a. Added power for 3 tv screens in the library area.
- b. Added power for av head end equipment.
- c. Moved the location of power of the IDF for library area.

56. Sheet E2.01F-1c FIRST FLOOR POWER PLAN AREA F **(Full size sheet reissued)**

- a. Added 9 GFCI outlets and 4 circuits in the storage 1-615 space in callout view
- b. Keynote added for power shut off switch for storage 1-615
- c. Removed power for EBB-2 as it got removed from HVAC drawings.
- d. Added power for black out roller shades in studio theatre 1-604
- e. Added power for the door access and ADA powered door.
- f. Updated keynote 5 for control switch to the dressing rooms power strip.
- g. Added coordination note for theatre and AV drawings.

57. Sheet E2.02B-1c SECOND FLOOR POWER PLAN AREA B **(Full size sheet reissued)**

- a. Removed power for 2nd TV screen from Study Loft 2-351
- b. Adjusted power location of the 1st TV screen in Study loft 2-351
- c. Move the duplex receptacle to accommodate the TV location.

58. Sheet E2.02F-1c SECOND FLOOR POWER PLAN AREA F **(Full size sheet reissued)**

- a. Added coordination note for theatre and AV drawings.
- b. Added new panel PAD-5B for added acoustical curtain hoist power.
- c. Moved one outlet in the vestibule.
- d. Added power for Acoustic hoist (2) as updated in theatre drawings.
- e. Added (2) circuits for signal processing racks.

- f. Added circuit for motorized screen for projector.
59. Sheet E2.03A-1c THIRD FLOOR POWER PLAN AREA A **(Full size sheet reissued)**
- a. Added power for the return fan for AHU-2, updated power for AHU-2 supply fan.
 - b. Added 120V, 1-phase power for energy recovery wheel for AHU-2.
60. Sheet E2.03B-1c THIRD FLOOR POWER PLAN AREA B **(Full size sheet reissued)**
- a. Removed power for 2nd TV screen from Study Loft 2-376
 - b. Adjusted location of the new panel on the wall and added keynote to move existing FA panel.
61. Sheet E2.03CF CATWALK POWER PLAN AREA F **(Full size sheet reissued)**
- a. Added coordination note for theatre and AV drawings.
62. Sheet E2.03F-1c THIRD FLOOR POWER PLAN AREA F **(Full size sheet reissued)**
- a. Added one convenience outlet to North balcony box
 - b. Moved conv. Receptacle in Vest- 3-603 to accommodate the door.
 - c. Moved conv. Receptacle in Vest- 3-607 to accommodate the door.
 - d. Added coordination note for theatre and AV drawings.
63. Sheet E2.04F-1c POWER ROOF PLAN AREA F **(Full size sheet reissued)**
- a. Circuits updated for FPB-R4-1&2
64. Sheet E3.00F-1c LOWER LEVEL LIGHTING PLAN AREA F **(Full size sheet reissued)**
- a. Removed F-5 type of lights in the basement.
 - b. Added circuit for lights in the basement.
65. Sheet E3.01B-1c FIRST FLOOR LIGHTING PLAN AREA B **(Full size sheet reissued)**
- a. Removed the column fixtures from the learning commons
66. Sheet E5.04c RISER DIAGRAMS **(Full size sheet reissued)**
- a. Added grounding for CSW-101
 - b. Added panel PAD-5B to the riser.
 - c. Updated Grounding and conduit size for P-AV panels per Perf. AV drawings
 - d. Updated Wire and conduit size for AV panels
 - e. Updated keynote 4 for performance AV related electrical scope and details.
67. Sheet E6.01c SCHEDULES **(Full size sheet reissued)**
- a. Updated schedule for PMB-C(added one circuit and updated 2 breaker sizes)
 - b. Updated schedule for PMF-C (added one circuit and 2 spares)

68. Sheet E6.02c SCHEDULES **(Full size sheet reissued)**
- a. Updated schedule for PB-1C
 - b. Updated schedule for PAD-7B
 - c. Updated note for Isolated ground bus for P-AV2 and P-AV3
 - d. Added one circuit to PAD-7B panel schedule for CCP-14 in line pump
69. Sheet E6.03c SCHEDULES **(Full size sheet reissued)**
- a. Circuits added to PAD-1B
 - b. Added panel schedule for LPY-3A1
 - c. Added (2) circuits for door access for EM-AD
 - d. Updated schedule for PCP-1
 - e. Added schedule for E6.03c
 - f. Updated Schedule for PAD-3
 - g. Updated Keynote 22 and 23 text.
 - h. Updated schedule for PAD-2B
70. Sheet E6.04c SCHEDULES **(Full size sheet reissued)**
- a. Updated schedule for EMLP-1
71. Sheet E7.01c DETAILS **(Full size sheet reissued)**
- a. Added text to detail no. 2

This addendum consists of: (10) Text Pages (7) Specification Sections and (71) Drawing Sheets.

END OF ADDENDUM



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Project Name: District 99 MFP Implementation DG South Phase C

Project Number: 180030

Date: December 5, 2019

Bid Question/Answer Log No. 1

The following clarification information is provided in response to questions received in accordance with the bid documents for the following Bid Packages:

Bid Group: 8
 Bid Packages: 80-103

#	Questions	Date	Answers	Date/By
1.	Detail 2 on page A7.16 calls out fire rated glazing at the CW, and the floor plan makes note of a 1 hour fire rated system as well. The glass is detailed as GL-3 (9/16" laminated). Could you please specify if this is to be non-fire rated, or if an entire fire rated assembly (framing & glass) is required.	11/26/19 LSG	Glass type has been revised to indicate correct fire-rated glazing. A fire-rated assembly is required. Refer to specification 08#### included within.	BS
2.	There are rarely any dimensions on the frames, will these be released via addendum? Will the door hardware spec be released via addendum as well? The specifications state a 1600 System 1 (captured), but some of the architectural details show a Clearwall system. Please advise.	11/27/19 LSG	Dimensions have been added as required. Door hardware specification and hardware set assignments have been included within. Specifications will be revised for the curtainwall in the next addendum to reflect what is graphically shown.	BS
3.	Will electrical be bidding on 12/19/19	11/27/19 FEC	Yes. Sealed Bids will be publicly opened 12/19/19.	12/2/19 AP
4.	Is there any food service equipment on this project and how we can get a link to the documents? When is completion date of project?	11/27/19	The kitchen equipment for this project will be bid out in the next bid group. Documents will be issued mid/end-January.	12/2/19 AP

5.	For the storm drainage piping insulation, the spec calls for all horizontal and vertical pipe runs to be insulated. Typically, only the first 20' from the roof drain is insulated. Can you clarify which is correct?	12/2/19 LTT	Storm piping is to be insulated throughout per spec section 220719. Limiting the insulation to the first 20'-0" from the roof drain is not acceptable.	12/4/19 BB
6.	Do you have expected start and finish date on this one?	12/2/19 KCE	Start date of March 30, 2020 thru August 1, 2021. Refer to Bid Schedule for more details.	12/2/19 AP
7.	What bid package is Theater Lighting in?	12/2/19	Theater lighting is included in the Electrical BP#93	12/2/19 AP
8.	If we were to be able to set all of the commons steel from outside we would still need to get lifts inside the courtyard In looking thru the exhibits / logistics plans I am not finding an access area for smaller equipment shown. Am I just not seeing it? I would think there would be access unless it just has to be hoisted over the building also?	12/2/19 WS	Access into the courtyard for smaller equipment will be limited to an 8'wx8'6"h opening thru the existing walls. Any lifts needing access to the courtyard will need to fit thru this size of an opening. Consult lift rental companies for equipment options. If contractor prefers to crane larger lift equipment over building that is the contractor's option and shall be figured as part of base bid.	12/3/19 A.P.
9.	We received a notice that BP#95 Theatre Lighting was not bidding for this project, but we understood that specification section 260961 Theatre Stage Lighting System was being priced to the electrical contractors which would then be a part of BP#93 Electrical. The Theatrical Luminaires are in Specification Section 116134 so they are bidding in BP#103 Theatre Rigging Since the Bid Package documentation does not list the specific specification sections that are associated with them, we need clarification as to whether or what is actually bidding on this project.	12/2/19 GS	Theatrical Luminaires shall be furnished and installed as part of BP#93 Electrical per the scope item #7 in this BP#93.	12/3/19 AP

10.	Specs seem to imply a water-based primer for the exposed steel. Please confirm that we can use a solvent based shop primer similar to primer listed in specs (eg SW KemBond HS)	12/3/19 WS	Water based primer shall be required for field touch-up. Solvent based primer shall be utilized for off-site application.	12/3/19 JG
11.	Reference detail 2/S2.8C-EP: The drawings do not seem to call out what the floor of this catwalk is. The Arch drawings call out plate but not thickness. On the main catwalk ¼" plate is called out. Does this catwalk require a ¼" PL also?	12/3/19 WS	¼" Steel plate is required.	12/3/19 BS
12.	Regarding the 500 tons crane reference: How was this crane size picked? Was there a certain crane company that was involved in the discussion?	12/3/19 WS	Gatwood Crane Company was consulted and used the design development drawings of steel sizes for reference to size the crane.	12/3/19 AP
13.	It looks like in Add #1 with scope #83 change we are to include working each Sat? Appears that Scope #84 for Commons was not updated? Just want to confirm that we do not need to include any OT for Commons unless it is required to meet schedule? Also is the Sat OT just for Structural steel & deck? If it is for Misc metals also how do we determine how many Sats we have to include? Structurally it is easy since the schedule lays out for us the number of weeks For example if we have a misc item that our erector says it will take only a couple of days to install typically one would not think a Sat would be required to complete the work?	12/3/19 WS	Include working Saturdays for structural steel and deck only for the auditorium. The commons steel should not require overtime unless it is required to meet schedule. Do not figure Saturdays for the miscellaneous metals scope unless it is required to meet schedule.	12/3/19 AP
14.	Please include sheet A6.19 if it pertains to this phase of construction.	12/2/19 WS	Sheet A6.19 is included with this addendum.	12/3/2019 BS
15.	Glass type GL-09 and its aluminum framing in Studio Theater is it required to achieve a certain STC Value?	12/4/19	There is no minimum STC rating for this assembly.	BS

16.	<p>There are some details such as 4 & 9/S3.6C-F that do not show an L against the precast for deck support or diaphragm</p> <p>At these locations they are not shown in plan either.</p> <p>If we need to include something at these locations, etc we will need L size & means of attachment</p>	12/4/19 WS		JG
17.	<p>Reference details 3 & 19/S3.7C-F</p> <p>Graphically there looks to be a TS member on top of the beams between the joists to help in deck diaphragm</p> <p>If there is steel here we will to know what size & how it is fastened</p>	12/4/19 WS		JG
18.	<p>Do you have existing building drawings for the theater to aid in bidding demolition?</p>	12/4/19	<p>We have included what we have for the 1963 original building drawings for your use. The information is limited and demolition shall not be limited to what is shown on these existing drawings.</p>	12/5/19 AP
19.	<p>Is the temporary construction access shown on the East side of the building on sheet G2.01B still going to happen?</p>	12/4/19	<p>No. The temporary access to the courtyard area will be from the West side thru the theater area when school is in session. During Spring of 2020 temporary access will be provided thru the 8'wx8'-6"h opening in the existing corridor 1-627 just South of the Theater.</p>	12/5/19 AP
20.	<p>Will all the existing props and theater costumes, etc., be removed prior to demolition?</p>	12/4/19	<p>Yes. The owner is responsible to remove all props, costumes, movable furniture, etc. Prior to demoliton.</p>	12/5/19 AP

DIVISION 0 – BIDDING AND CONTRACT REQUIREMENTS
SECTION 00200 –NOTICE TO BIDDERS

NOTICE TO BIDDERS:

Notice is hereby given that *Community High School District 99* is accepting sealed bids for the **South High School Master Facility Plan**. Such proposals as herein concerned shall be for the following as described:

BID GROUP NO. 8

**BID PACKAGES #80, #81, #82, #83, #84, #85, #86, #87, #88, #89, #90, #91,
#92, #93, #94, #96, #97, #98, #99, #100, #101, #102 and #103**

Bid Package #80 - Selective Demolition & Partial Wrecking

Bid Package #81 - Excavation & Site Utilities

Bid Package #82 - Concrete

Bid Package #83 - Structural Steel & Misc. Metals for Auditorium

Bid Package #84 - Structural Steel & Misc. Metals for Learning Commons & Library

Bid Package #85 - Precast Concrete Panels

Bid Package #86 – NOT USED

Bid Package #87 - Masonry

Bid Package #88 - Roofing

Bid Package #89 - Metal Panels

Bid Package #90 - Curtain Wall, Storefront, Skylights & Glazing

Bid Package #91 - Mechanical

Bid Package #92 – HVAC & Plumbing Insulation

Bid Package #93 - Electrical

Bid Package #94 - Plumbing

Bid Package #95 – NOT USED

Bid Package #96 - Low Voltage – Paging, Security, Data and AV

Bid Package #97 – Performance Audio Visual

Bid Package #98 - Metal Framing & Drywall

Bid Package #99 - General Trades

Bid Package #100 - Doors & Hardware

Bid Package #101 - Ceramic Tile

Bid Package #102 - Theatre Seating

Bid Package #103 - Theatre Rigging

SEALED BIDS will be received by *Community High School District 99* at the place, date and time stated below and publicly opened and read there:

PLACE:

Administrative Center
6301 Springside Avenue
Downers Grove, IL 60516

DUE DATE:

Thursday December 19th, 2019

TIME:

1:00 PM (CST) BP#80, #81, #82, #83, #84,
#85, #86 and #87

1:45 PM (CST) BP#91, BP#92, BP#93,
BP#94, BP#96 and BP#97

2:30 PM (CST) BP#88, BP#89, BP#90,
BP#98, BP#99, BP#100, BP#101, BP#102,
BP#103

(as Date/Time stamped by District 99's receptionist)

DIVISION 0 – BIDDING AND CONTRACT REQUIREMENTS
SECTION 00200 –NOTICE TO BIDDERS

All bids must be sealed and marked on the envelope with the bid package title and bid package number.

Pre-qualification of all bidders in this bid group is required prior to the bid due date. Submit one fully executed copy of AIA Document A305 "Contractor's Qualification Statement" prior to submitting this bid form unless we have one on file. **Please email to Jeaneen Turner- jturner@wightco.com.** In addition to supplying this form, each trade Contractor is also required to answer the following questions and provide these answers with your AIA Document A305:

- 1) List of trade union agreements and date the current agreement expires.
- 2) Within the last seven years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction contract? (if the answer is yes, please attach the details.)
- 3) On a separate sheet, list the major projects your organization has completed in the past five years giving the name of project, owner, architect, contract amount, date of completion and percentage of the cost of the work performed with your own forces.
- 4) Trade/Supplier References (minimum of 3):

The competency and responsibility of the bidders will be considered in making awards. The successful bidder shall, upon acceptance of his bid, be required to procure and pay for a Performance Bond and Labor and Material Payment Bond in an amount equal to one hundred percent (100%) of the bid. Bonds shall comply with all laws of the State of Illinois governing public contracts let by governmental units. Bid security in the form of a Bid Bond, certified check

or cashier's check made payable to Community High School District 99 in an amount equal to not less than ten percent (10%) of the Base Bid shall be submitted with the Bid. Bid security is required of all parties submitting a proposal. A fully executed and compliant Bid Security must be included with the Bid Form.

All Contracts for the Construction of Public Works are subject to the Illinois Prevailing Wage Act (820 ILCS 130/1-12).

The Construction Manager for this project is Wight Construction Services, Inc. All questions concerning this project or those concerning bidding requirements should be directed to: DownersGroveSouth@wightco.com **Questions must be received in writing, or via email (DownersGroveSouth@wightco.com), until 12:00 p.m. Monday December 16th, 2019.**

(Addendum #2) A building walk thru will be held at the Downers Grove South High School on Wednesday December 4th, at 3:30 PM. which is NON-MANDATORY for Bid Packages: BP#80 Selective Demolition & Partial Wrecking, BP#81 Excavation & Site Utilities, and Non-Mandatory for BP#82 Concrete, BP#83 Structural Steel & Misc. Metals for Auditorium, BP#84 Structural Steel & Misc. Metals for Learning Commons & Library, BP#85 Precast Concrete Panels, BP#86 Crane, and BP#87 Masonry.

A non-mandatory building walk thru will be held at the Downers Grove South High School on Monday December 9th, at 7:00 AM. for Bid Packages: BP#91 Mechanical, BP#92 HVAC & Plumbing Insulation, BP#93 Electrical, BP#94 Plumbing, BP#96 Low Voltage and BP#97 Performance Audio Visual.

A non-mandatory building walk thru will be held at the Downers Grove South High School on Tuesday December 10th, at 1:00 PM. for Bid Packages: BP#88 Roofing, BP#89 Metal Panels, BP#90 Curtain Wall, Storefront & Glazing BP#98 Metal Framing & Drywall, BP#99 General Trades, BP#100 Doors & Hardware, BP#101 Ceramic Tile, BP#102 Theatre Seating and BP#103 Theatre Rigging.

DIVISION 0 – BIDDING AND CONTRACT REQUIREMENTS
SECTION 00200 –NOTICE TO BIDDERS

Please contact Nick Sleboda to Schedule walk thru times/access for DG South at 630-442-4569 or via email DownersGroveSouth@wightco.com.

The School District reserves the right to reject any or all bids, to negotiate contract terms with various Bidders, and to waive all formalities or irregularities to any bid when such is deemed by the Owner to be in the Owner's best interests.

- 1) Plans and Specifications can be viewed or downloaded electronically via buildingconnected.com Please send email to DownersGroveSouth@wightco.com to receive electronic invitation after 3:00 PM on Monday, November 25th, 2019.

This invitation is issued in the name of *Community High School District 99*

END OF SECTION 00200

**BG8 BP80 SCOPE OF WORK FOR SELECTIVE DEMOLITION & PARTIAL WRECKING –
SOUTH HIGH SCHOOL PHASE C**

Scope – This TRADE CONTRACTOR's scope shall include but not be limited to the scope listed below. Please see entirety of bid documents for all scope requirements.

1. This TRADE CONTRACTOR shall reference ALL General, Existing Architectural, Architectural Demolition, Architectural, Mechanical, Mechanical Demolition, Plumbing Demolition, Plumbing, Electrical Demolition, Electrical, and Technology Sheets included in this Bid Group 8 as they relate to Demolition. This TRADE CONTRACTOR shall read all Specification Sections in this manual as well as Notes and General Notes included in the drawings as they pertain to this scope of work. This TRADE CONTRACTOR shall review the project SCHEDULE included in this project manual and provide sufficient manpower and equipment to complete this TRADE CONTRACTOR's scope of work within the designated durations provided.

Note: This TRADE CONTRACTOR'S scope of work shall be limited to those areas as indicated on plans for Phase C as shown in Exhibit A Construction Phasing. This is Phase 3 of 3 phases of the Master Facility Plan, thus some drawings may include areas of work not to be included in this scope of work.

Note: This TRADE CONTRACTOR acknowledges there are phased areas of demolition that occur per Exhibit G Demolition Phasing Plan.

2. (Addendum #2) It is highly recommended that this TRADE CONTRACTOR attends a **NON-MANDATORY** pre-bid walk through December 3rd at 1:00 P.M. in order to clearly understand the extent of the building demolition that is required.
3. This TRADE CONTRACTOR shall be responsible for performing all Selective Demolition & Partial Wrecking and activities within the defined demolition work area as shown in the plans and specifications. This TRADE CONTRACTOR shall furnish all manpower, supervision, delegated design for shoring, permitting, equipment, means and methods required for the demolition scope of work. This TRADE CONTRACTOR to furnish all required dumpsters and trucking/hauling to remove and legally dispose of any and all demolished materials off-site.

NOTE: Asbestos Abatement activities will be performed prior to demolition activities and a clean environmental document will be provided. Review Bid Group 8 Schedule provided for more information on abatement of existing areas in school.

NOTE: Reclaiming of refrigerant will be by the Mechanical Trade Contractor.

NOTE: This TRADE CONTRACTOR acknowledges the demolition of any building envelope items (exterior walls, etc.) may need to occur out of sequence with the Project Schedule. Roofing Demolition (membrane and insulation) required over the West Events Entrance where the roof structure shall remain in place (West of gridline 63.EE) area will be by the Roofing Trade Contractor. All other roofing demolition is the responsibility of this TRADE CONTRACTOR.

4. This TRADE CONTRACTOR shall be responsible for safe demolition of all existing building structures (including but not limited to steel framing and joists, decking, roofing, masonry, and concrete), mechanical assemblies, wall assemblies, roof assemblies, expansion joints, brick fascia, roof overhangs, slabs on grade, elevated concrete slabs,

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existing building foundations as shown on the architectural and structural demolition plans. Note, the sequencing of this demolition needs to be reviewed/approved by Construction Manager prior to proceeding and needs to follow overall construction schedule.

5. This TRADE CONTRACTOR shall be responsible for all concrete saw-cutting, steel cutting/torching required for demolition.
6. This TRADE CONTRACTOR required to provide any/all excavation required to demolish/remove existing foundations and foundation walls that are scheduled for demolition. Removal of earth spoils and debris associated to this TRADE CONTRACTOR's scope of work shall be responsibility of this TRADE CONTRACTOR; Backfill will be the responsibility of the EXCAVATION TRADE CONTRACTOR.

Note: There are interior slab areas indicated by Plan Note #20 on the structural drawings that are not the responsibility of this TRADE CONTRACTOR. The EXCAVATION TRADE CONTRACTOR will be responsible for this interior slab removal. All other areas of slab removal shall be the responsibility of this TRADE CONTRACTOR.

7. This TRADE CONTRACTOR shall be responsible for removing and legally disposing of ALL selective demolition material within the Phase C Construction Area of the building including but not limited to all MEP materials (i.e. including but not limited to ductwork, light fixtures, electrical panels, toilet fixtures, conduits, piping, valves, equipment (unit ventilators, fan coil units, RTUs, AHUs, Exhaust Fans, Exhaust Hoods, etc.), etc. scheduled to be removed per the plans and specifications. This TRADE CONTRACTOR shall be responsible for ALL Demolition Keynotes listed on the Demolition sheets.

NOTE: This TRADE CONTRACTOR shall reference the Electrical, Plumbing, Mechanical Demolition Sheets to verify the extents of this work. Any MEP demolition outside the Architectural Demolition Area shall be included in this TRADE CONTRACTOR's scope of work.

NOTE: The safe disconnection of the MEP items in the scope areas shown in the MEP drawings will be by the MEP TRADE CONTRACTORS, but the complete removal/disposal of these MEP items to be by this TRADE CONTRACTOR.

NOTE: Demolition keynotes #1 & #6 on MD2.01BC, keynotes #1 & #5 on MD2.02BC, keynotes #1 on MD2.03BC sheets are NOT this responsibility of this TRADE CONTRACTOR. The MECHANICAL TRADE CONTRACTOR shall be responsible for this work.

NOTE: This TRADE CONTRACTOR shall be responsible to temporarily support any piping or components to remain that were supported by any removed ceilings or structures in the remodeled areas.

NOTE: This TRADE CONTRACTOR shall NOT be responsible for the infill and/or patching of openings or adjacent surfaces.

NOTE: The Mechanical Demolition of existing ductwork required for 2nd & 3rd floors of Areas A & B including the vertical risers between floors shall be the responsibility of this TRADE CONTRACTOR.

NOTE: Any mechanical equipment scheduled for REUSE will be removed/relocated by MECHANICAL TRADE CONTRACTOR.

8. This TRADE CONTRACTOR shall be responsible for all the masonry demolition identified on the demolition drawings.

NOTE: This TRADE CONTRACTOR shall NOT be responsible to remove existing outside air louvers at unit ventilators per Mechanical Sheets.

NOTE: This TRADE CONTRACTOR shall not be responsible for new door openings in existing CMU walls. This work shall be responsibility of the Masonry Trade Contractor.

9. This TRADE CONTRACTOR shall be responsible for removing and disposing of ALL doors, frames and hardware (Aluminum, Hollow Metal, Wood, etc.) scheduled to be removed according to the plans and specifications.

Note: All window / aluminum doors in courtyard area will be removed & disposed of by the Abatement Trade Contractor.

10. This TRADE CONTRACTOR shall be responsible for demolition and disposal of existing elevator, including structure and all associated electrical, mechanical, and hydraulics. Reclamation of hydraulic fluid will be by the Elevator Trade Contractor.

11. This TRADE CONTRACTOR shall be responsible for the demolition and/or removal of all ceiling assemblies (i.e. Acoustical tile, spline, drywall, plaster, etc.), window assemblies, flooring (ie. Ceramic, VCT, carpet, wall base including any and all mastic materials) wall openings and modifications, interior and exterior masonry walls, gypsum board walls, transom windows, paneling, lockers, doors, door frames, borrowed lites, toilet partitions, toilet accessories, plumbing fixtures, window shades, casework, and all other work to be removed per the plans and specifications.

NOTE: This TRADE CONTRACTOR shall be responsible for demo/removal of all ceilings identified on AD 3.01, AD 3.02 and AD 3.03 required for Phase C. Note, some of these ceiling areas will not be removed until Summer of 2021.

12. This TRADE CONTRACTOR shall be responsible for protecting all interior items that are not part of its scope; this includes but is not limited to: adjacent materials/items/fixtures/systems and substrates, and existing structural to remain. Any questions or clarifications regarding the extents of the demolition shall be directed to the construction manager prior to the time and date listed in the specification manual.

Note: Temporary walls to isolate building demolition from existing building areas to remain will be installed by the General Trades Contractor, but this TRADE CONTRACTOR is required to coordinate/ensure these temporary walls are in place prior to proceeding with demolition work.

13. This TRADE CONTRACTOR shall request, in advance, any and all disconnections required to be completed "by others" to the CONSTRUCTION MANAGER and necessary so as not to delay the project schedule.
14. This TRADE CONTRACTOR is NOT responsible for MEP disconnects, this will be completed by others and are NOT under this TRADE CONTRACTOR's scope of work.
15. This Trade Contractor is NOT responsible for any site demolition identified on Civil Demolition Drawings.
16. This TRADE CONTRACTOR is responsible to verify and determine in advance and during demolition whether removal or demolition of any element will result in structural

deficiency, overloading, failure or unplanned collapse, unwarranted triggering of FP systems, alarms, and to detect hazards resulting from demolition related activities.

NOTE: This TRADE CONTRACTOR shall be responsible for removal of all noted partitions, floor and ceiling finishes and must protect all existing structural members to remain.

17. This TRADE CONTRACTOR shall be responsible for temporary shoring and/or bracing identified in the construction documents, or as required by this TRADE CONTRACTOR'S work scope. This includes all delegated design and means & methods associated with this shoring. This TRADE CONTRACTOR shall be responsible for removal of any temporary shoring after all components are structurally tied-in and deemed safe by Construction Manager.
18. This TRADE CONTRACTOR shall be responsible for acquiring all necessary Demolition Permits from AHJ (Authority Having Jurisdiction) i.e. DuPage County prior to beginning any demolition work. If permits are required, this trade contractor shall acquire said permit(s) in a timely manner so as not to hold up any work in accordance with the overall construction schedule included in this specification manual.
19. This TRADE CONTRACTOR to provide sufficient equipment, material, skilled manpower, supervision and/or premium time/shift work (all without additional compensation) as may be required to complete the work of this Trade Contractor in accordance with the overall project schedule.

NOTE: This TRADE CONTRACTOR understands there are areas of this building that will remain occupied and any equipment used indoors that emits toxic fumes/exhaust will need to be approved by the Construction Manager or an alternate fuel/equipment type needs to be provided.

NOTE: This TRADE CONTRACTOR needs to use water or other dust remediating techniques to minimize dust pollution in interior areas. Water connection is available on-site.

NOTE: This TRADE CONTRACTOR understands there will be areas of demolition that may need to run concurrently. Appropriate manpower must be provided to meet the project schedule.

20. This TRADE CONTRACTOR shall leave the site in a safe and orderly manner including barricades and effective deterrents from any and all possible dangers on a daily basis and at the conclusion of this trade contractor's work

ALLOWANCES, BOND, & ALTERNATES

21. This TRADE CONTRACTOR **shall include an allowance of \$75,000.00 in their base bid** to account for any unforeseen conditions. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.
22. This TRADE CONTRACTOR will be required to provide a Performance and Payment Bond for their work in accordance with 002010 of the General Conditions.
23. **Alt. Bid #1 - This TRADE CONTRACTOR shall provide an Alternate Price to remove and legally dispose all window assemblies and aluminum doors in the Commons Courtyard Area that are scheduled for demolition as part of Phase C.**

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- 24. **Alt. Bid #2** – This TRADE CONTRACTOR shall provide an alternate price to remove and legally dispose of existing full bed terrazzo flooring in existing corridors to receive porcelain tile, consider 12,000 S.F. of terrazzo for pricing purposes.

- 25. **Alt. Bid #3** – This TRADE CONTRACTOR shall provide a deductive alternate price to remove from this TRADE CONTRACTOR’s scope of work the demolition of the 4” interior MASONRY wall ALONG WRESTLING ROOM per section 4/AD4.22.

ACCEPTANCE

Accepted as listed above in addition to terms and conditions of the original construction documents on which the bid was based.

Company: Wight Construction Services, Inc.
 2500 North Frontage Road
 Darien, IL 60561

Signed: _____
Printed Name: _____
Position: _____
Date: _____

END OF SECTION 00300 –Scope

Scope – This TRADE CONTRACTOR's scope shall include but not be limited to the scope listed below. Please see entirety of bid documents for all scope requirements.

BG8 BP81 SCOPE OF WORK FOR EXCAVATION & SITE UTILITIES –SOUTH HIGH SCHOOL (Phase C)

1. This TRADE CONTRACTOR shall reference ALL General, Logistics Plan, Civil, Structural, Architectural sheets included in this Bid Group 8 as they relate to Mass Grading, Excavation and Site Utilities This TRADE CONTRACTOR shall read all Specification Sections in this manual as well as Notes and General Notes included in the drawings as they pertain to this scope of work. This TRADE CONTRACTOR shall review the project SCHEDULE included in this project manual and provide sufficient manpower and equipment to complete this trade contractor's scope of work within the designated durations provided.

Note: This TRADE CONTRACTOR'S scope of work shall be limited to those areas as indicated on plans for Phase C as shown in Exhibit A Construction Phasing. This is Phase 3 of 3 phases of the Master Facility Plan, thus some drawings may include areas of work not to be included in this scope of work.

Note: The foundation installations will be broken up into multiple sequences per the Construction Schedule and Exhibits. This TRADE CONTRACTOR shall include multiple mobilizations in the BASE BID for excavation of these foundations. Refer to bid schedule for approximate dates and durations for these phases.

Note: This TRADE CONTRACTOR acknowledges there is substantial work inside of an interior courtyard surrounded by a 3-Story existing building. Access into this courtyard for heavy equipment will be limited to an 8'x8-6" opening in the existing building. All Spoils, Fills, Materials, Equipment, etc., will be limited to this opening. The use of small excavation equipment for this work shall be figured in the Base Bid. If Premium shift work is required to meet the project schedule utilizing small equipment, the costs for this premium shift work will be the responsibility of this TRADE CONTRACTOR. If this TRADE CONTRACTOR elects to crane materials or heavy equipment up over existing building into courtyard, all costs for Crane, hoisting, rigging, etc., are the responsibility of this TRADE CONTRACTOR.

2. This TRADE CONTRACTOR shall be responsible for furnishing all material, labor, supervision, layout and survey services associated with this work. The surveying/layout and utility locating will be done as part of an allowance, see the allowances section of this documents for additional information. Control points and CAD documents will be provided. The accurate layout of the radial foundations and sitework is the responsibility of this TRADE CONTRACTOR. If a professional surveyor is needed to accurately perform this scope of work, this shall be the responsibility of this TRADE CONTRACTOR.

NOTE: Refer to Exhibit B Site Phasing Plan for extents of Phase C work. This TRADE CONTRACTOR shall include all work highlighted as Phase C or Incidental to Phase C.

NOTE: This TRADE CONTRACTOR shall be responsible for furnishing As-builts signed and sealed by a licensed engineer as well as inverts and locations of stormwater utility systems in this scope of work no later than 10 days after the work is completed. Refer to contract documents including As-Built Notes on drawing sheet C0.01 and project manual for further information.

3. This TRADE CONTRACTOR shall be responsible for **all** mass grading, earth moving, re-spread, hauling, importing, excavation, backfill and compaction, rough grading and fine

grading of base to (+/- 0.1 foot or 1.2”) under sidewalks, building pads, etc. as shown on the drawings and specifications to achieve the final working grade.

NOTE: During School days heavy traffic on Dunham Rd and Norfolk Rd is to be expected from 7:30-8:30 & 2:30-3:30. Any trucking/hauling shall not occur during these times.

NOTE: This TRADE CONTRACTOR responsible for all excavation required for new foundations adjacent to existing foundations. This TRADE CONTRACTOR responsible for all precaution required to prevent undermining of existing foundations.

4. This TRADE CONTRACTOR shall be responsible for SITE DEMOLITION including: existing base, sidewalks, topsoil, vegetation, and trees to required sub-grades as indicated on construction documents and/or as specified in the project manual.

This TRADE CONTRACTOR shall be responsible for all site demolition as shown on the drawings including all storm lines and structures, sanitary lines and structures, sidewalks shown for removal, etc... Cut and cap storm and sanitary as shown on contract documents. **All underground utilities shown to be removed or abandoned shall be investigated and confirmed by this TRADE CONTRACTOR. Any utilities that are “live” and need to remain but are shown to be removed shall be indicated to CONSTRUCTION MANAGER PRIOR to demolition.**

NOTE: The tree removal in the existing courtyard was completed previously and shall not be included in this TRADE CONTRACTOR’s scope of work.

5. This TRADE CONTRACTOR shall be responsible for the cut, fill and compaction necessary to construct the slabs on grade. This Trade Contractor is also responsible for the excavation and subsequent backfill and compaction for the Footings, Foundations, Sidewalks, & Frost Stoops.

NOTE: Frost Stoops will be constructed of free draining material to frost depth for the areas indicated on construction documents and shall be the responsibility of this TRADE CONTRACTOR.

NOTE: This TRADE CONTRACTOR shall provide any necessary lifts/proof rolling to complete its scope of work to meet the proper compaction of sub-grade and/or backfill materials. Proof rolls shall be coordinated so that those TRADE CONTRACTORS that will install any work above sub-grade, including but not limited to asphalt/paving contractor, concrete paving contractor, etc., can be present.

NOTE: This TRADE CONTRACTOR shall provide unit price per cubic yard for the excavation and disposal of undercuts and unit prices for clay and stone backfill of undercut areas in the provided area on the bid form.

NOTE: This TRADE CONTRACTOR shall coordinate with concrete contractor regarding phasing, logistics, schedule, etc. All dewatering (if necessary) in the footing excavation shall be the responsibility of this Trade Contractor. Dewatering must be filtered through a filter bag and comply with procedures per Illinois Law.

6. This TRADE CONTRACTOR shall be responsible for the saw-cut and removal of existing interior slabs on grade and excavations required to install new footings in interior spaces. Verify the new foundation plan and architectural drawings for extents of this work.

7. This TRADE CONTRACTOR shall be responsible for the furnish and install of the Compacted Granular Fill under all slab-on-grade installations including sidewalks and pavement, see structural and civil drawings for thickness and details for the Compacted Granular Fill.

NOTE: This Trade Contractor shall account for areas of thickened slabs, depressed slabs, grade beams, stepped footings, etc., and shall be responsible for layout and excavation of those areas as shown on the Structural Drawings.

NOTE: This Trade Contractor is NOT responsible for the removal of spoils for the under-slab Plumbing and Electrical, these trade contractors shall be responsible for their own excavation, backfill and spoil removal.

8. This TRADE CONTRACTOR shall be responsible for topsoil and/or non-topsoil stockpiling, hauling, importing, and management/maintenance thereof for all excavation spoils-(including re-spreading of topsoil and/or non-topsoil). This TRADE CONTRACTOR shall be responsible for all removal and legal off-site disposal of all spoils and debris, which corresponds to this TRADE CONTRACTOR'S scope of work. Stockpile locations must be coordinated with CONSTRUCTION MANAGER.

NOTE: Refer to the Bid Group 8 Schedule for sequence of operations inside the courtyard. Multiple handling of stockpiles will be required per the schedule and bid documents.

9. This TRADE CONTRACTOR shall provide a minimum of 4" of topsoil to all areas that are to be restored to a vegetative condition. Topsoil to be installed per project specifications and standards.

NOTE: Top 2" of topsoil to be free from lumps, stones or foreign matter larger than ½" diameter.

NOTE: No importing of topsoil will be required. All topsoil will be distributed on-site. Haul-off of excess spoils will be required. Spoil locations and distribution to be coordinated with Construction Manager

10. This TRADE CONTRACTOR shall also be responsible for the installation and subsequent removal of construction haul roads and laydown areas around the new addition to construct the building. Top soil will be stripped, and stock piled by this TRADE CONTRACTOR. The haul road shall consist of 9" of CA-1 and capped with 4" of CA-6 stone. Compacted and rolled. This work will be done as part of an allowance, refer to the Allowances section in this document for additional information.

11. This TRADE CONTRACTOR shall be responsible for installation, maintenance, and removal of all sediment and erosion control items required for their work only as indicated on the drawings and/or as required per codes or local authorities. This TRADE CONTRACTOR shall provide silt screen over all inlets to prevent clogging of underground piping. Silt fencing is to be included. Refer to contract documents for specific requirements including all notes on C3 sheets on drawings and associated specific details.

NOTE: Permanent seeding and Erosion Control Blanket shall be by future Landscape Trade Contractor and is NOT part of this scope.

12. This TRADE CONTRACTOR shall be responsible for all dewatering as associated with this TRADE CONTRACTORS work. Dewatering activities including pumping (gas or electric), swales, sump pits, etc. shall be put in place within 24 hours of a rain event so as

to minimize schedule delays. Any dewatering activities shall be in accordance with Illinois Law and proper SWPPP Procedures.

13. This TRADE CONTRACTOR shall provide all associated trucking of imported and exported materials approved by Construction Documents.
14. This TRADE CONTRACTOR shall be responsible for scheduling with Construction Manager of all required testing for compaction, etc... This TRADE CONTRACTOR shall be responsible for adherence with all testing procedures and/or Geo-Technical Engineering findings and recommendations. Testing by others.
15. This TRADE CONTRACTOR shall be responsible for all public access (streets, roads, aprons, curb-cuts, sidewalks, roads, etc.) maintenance on a daily basis and for the duration of all on site activities and to ensure that it is clear of dirt, dust, debris, mud, stones, rocks, sediment and/or project related materials of any kind caused by this TRADE CONTRACTOR. This TRADE CONTRACTOR shall provide all required street sweeper during her/his work period. Refer to contract documents, including General Notes on C0.01 for further information.
16. This TRADE CONTRACTOR shall be responsible for all site Storm, Sanitary, and Water utilities to a point 5' 0" from the building's perimeter foundation wall. This TRADE CONTRACTOR shall be responsible for furnishing and installing the piping (including all trenching, backfill, and accessories) from that point forward with the approved tie-ins.

NOTE: For installation of storm structures inside the courtyard area this TRADE CONTRACTOR shall figure the use of an LP gas forklift to deliver structures thru the existing building to the courtyard area. If the structures need to be sectioned into pieces to accommodate the 8'x8'-6" opening thru the building and load capacities of this forklift all costs associated with this work is the responsibility of this TRADE CONTRACTOR.

NOTE: This TRADE CONTRACTOR shall be responsible for adjusting elevation of any existing storm structures to match final grade, as noted on General Note 20 on C0.01.

(Addendum #2) NOTE: This TRADE CONTRACTOR shall be responsible for the directional boring required to install the new underground storm piping from structure STM8.0 to STM8.1. The directional boring allowance listed below shall be utilized for this work.

17. This TRADE CONTRACTOR is responsible for all backfill to complete the utility work compacted to proper specification of Construction Documents.
18. This TRADE CONTRACTOR is responsible for doing all necessary research on piping and structure sizing with local and/or state authorities as required.
19. The crane required for setting steel and precast in this area will be provided by the CM. This TRADE CONTRACTOR shall comply with the durations in the Bid Group 8 Schedule as to not delay the crane demobilization. If this TRADE CONTRACTOR is responsible for additional crane rental days or crane downtime, the cost for this will be backcharged to this TRADE CONTRACTOR.

ALLOWANCES, BOND, AND ALTERNATES

1. This TRADE CONTRACTOR shall include an allowance of **\$30,000.00 in their base bid** to account for any unforeseen conditions. Contract amounts will be adjusted by

change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.

- 2. This TRADE CONTRACTOR shall include a layout/surveying allowance of **\$10,000.00 in their base bid** to account for layout, surveying and utility locating associated to this TRADE CONTRACTOR’s scope of work per scope item #2 of this document. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.
- 3. This TRADE CONTRACTOR shall include an allowance of **\$15,000.00 in their base bid** to account for the installation and removal of temporary haul road and laydown areas per scope item #10 of this document. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.
- 4. This TRADE CONTRACTOR shall include a **SWPPP allowance of \$5,000.00** to be included in the base bid to account for future maintenance of Sediment and Erosion Control Measures. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.

NOTE: This allowance is for unforeseen maintenance of the Erosion Control Measures. Initial install and maintenance are included in Base Bid work and will not be covered by this allowance.

- 5. (Addendum #2) This TRADE CONTRACTOR shall include a **Directional Boring allowance of \$120,000.00** to be included in the base bid to account for the directional boring associated with scope item #16. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of the Construction Manager.
- 6. This TRADE CONTRACTOR will be required to provide a Performance and Payment Bond for their work in accordance with 00201 of the General Conditions.

ACCEPTANCE

Accepted as listed above in addition to terms and conditions of the original construction documents on which the bid was based.

Company: Wight Construction Services, Inc.
2500 North Frontage Road
Darien, IL 60561

Signed: _____

Printed Name: _____

Position: _____

Date: _____

END OF SECTION 00300 –Scope

BG8 BP091 SCOPE OF WORK FOR HVAC – SOUTH HIGH SCHOOL PHASE C

Scope – This TRADE CONTRACTOR's scope shall include but not be limited to the scope listed below. Please see entirety of bid documents for all scope requirements.

1. This TRADE CONTRACTOR shall reference ALL General, Logistics Plan, Civil, Structural, Existing Architectural, Architectural Demolition, Architectural, Landscape, Mechanical, Plumbing, Electrical, Technology and Food Service drawings in this Bid Group 8 as they relate to HVAC. This TRADE CONTRACTOR shall read all Specification Sections in this manual as well as Notes and General Notes included in the drawings as they pertain to this scope of work. This TRADE CONTRACTOR shall review the project SCHEDULE included in this project manual and provide sufficient manpower and equipment to complete this TRADE CONTRACTOR's scope of work within the designated durations provided.

Note: This TRADE CONTRACTOR'S scope of work shall be limited to those areas as indicated on plans for Phase C as shown in Exhibit A Phasing Plan. This is Phase 3 of 3 phases of the Master Facility Plan, thus some drawings may include areas of work not to be included in this scope of work.

Note: This TRADE CONTRACTOR acknowledges there are phased areas of demolition/Disconnects that occur per Exhibit D Demolition Phasing Plan.

2. This TRADE CONTRACTOR shall be responsible for furnishing and installing all materials, skilled and/or licensed labor, equipment, tools, and coordination, etc... for a complete functioning Heating, Ventilation and Air Conditioning System including all related assemblies and systems. This trade contractor shall include **all piping, tubes, fittings, loops, valves, drain lines (D), flexible connections, all hangers/supports, identification, testing-adjusting-balancing, variable frequency drives, refrigerant piping, pumps, ducts, duct lining, duct accessories, duct silencers, AHU's, RTUs, MAUs, Energy Recovery Equipment, Computer Room Cooling Units, Duct Free Split Systems, VAV's, Fan Power Boxes, Pumps, Hydronic Accessories, Fans, Fan Coil Units, Electric Duct Coils, Electric Baseboard Heaters, Cabinet Unit Heaters, Exhaust Fans, Wall Louvers, Diffusers, Registers, Grilles, Air Compressor, Dust Collectors, Relief Hoods, Transfer Grilles, Balancing Dampers, Motorized Dampers, Fire Dampers, Outside Air Intakes, Coil Circulating Pumps, Radiant Floor Heating (including Fan-Assisted Units and Piping), Wall Sleeves, Gas Piping, joint sealants,** and other specified requirements for a complete, conforming and operable system as shown/stated in the plans and specifications and delivered per the project schedule.

NOTE: THIS TRADE CONTRACTOR shall furnish and Install all Mechanical Equipment shown on M5.01C and M5.02C, including all associated notes.

NOTE: This TRADE CONTRACTOR responsible for all details identified on M6.01C, M6.02C, M6.03C, ME1.01C, and ME1.02C.

This TRADE CONTRACTOR acknowledges there is a portion of work inside utility tunnels where access is restricted

3. This TRADE CONTRACTOR shall review and become familiar with ALL documents included in this bid group. This Trade Contractor shall furnish, install, complete and/or otherwise comply with all work as noted and or implied by the following but not limited to: All Specification sections in Division 23, General Notes on Sheet M0.01C, M, MD, and ME Drawings

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4. This TRADE CONTRACTOR is responsible for shop drawings, layout, and field layout of this Trade Contractor's work. This TRADE CONTRACTOR shall coordinate the installation of his work with plumbing, electrical, HVAC, technology, concrete, metal framing and drywall, ceiling and all other trades as required. Mechanical contractor shall lead in the BIM coordination effort of all of these trades. This shall include obtaining the 3D files from the sprinkler, plumbing and electrical contractor and plotting all systems in color on one drawing. This TRADE CONTRACTOR shall lead BIM coordination meetings for all the MEP trades.

NOTE: There will be no extra costs allowed to this TRADE CONTRACTOR for any field routing or modifications that may be required for piping/duct/conduit due to existing field conditions in existing building

NOTE: This TRADE CONTRACTOR responsible for all field coordination/routing associated with ductwork/piping/equipment installation on 2nd/3rd floors of existing school building areas. Reference Drawings M2.02.B.C, M2.03.B.C, M3.02.B.C, and M3.03.B.C.

5. Exterior wrapped HVAC duct and pipe insulation will be by the INSULATION CONTRACTOR. However, internally lined ductwork or factory insulated piping will be the responsibility of THIS TRADE CONTRACTOR.

NOTE: All exposed ductwork to be internally lined by this TRADE CONTRACTOR per specifications, refer to architectural reflected ceiling plans for locations.

6. All exposed round ducts shall be double wall construction, outer wall is galvanized steel, inner wall is galvanized perforated steel. Interstitial duct liner shall be 1" fiberglass type.
7. Any reference to duct liners in the plans is limited to rectangular ducts only.
8. HVAC trade contractors shall prime coat all ductwork that is required to be painted by Architectural trade. Use spec section 099100 for means and methods. These are limited to exposed ductwork.
9. BAS (Building Automation System) and rough-in for temperature control will be by OTHERS. Instrumentation and Control for HVAC, Direct Digital Control for HVAC, Sequence of Operation for HVAC shall be the responsibility of OTHERS. This TRADE CONTRACTOR is responsible for coordinating with Temperature Controls Contractor on equipment type and location.
10. This TRADE CONTRACTOR is responsible for relocation of all mechanical equipment to be re-used. This includes disconnection, rigging, hoisting, staging, storing, protecting, and reinstallation as required per the Mechanical Drawings. Including Balancing and Startup procedures.
11. This TRADE CONTRACTOR shall coordinate with ACOUSTICAL CEILINGS TRADE CONTRACTOR and CONSTRUCTION MANAGER on all existing ceiling locations where ceiling grid/tile need to be removed for new ductwork/piping install. Existing Ceiling Grid/Tile to be removed/replaced with ACOUSTICAL CEILINGS TRADE CONTRACTOR.
12. All HVAC Demolition work shown on construction documents will be by OTHERS. **However, this TRADE CONTRACTOR, shall mobilize prior to demolition activities to assist in marking existing ducts, piping, equipment, etc., "to remain" and "to be removed" for coordination with the DEMOLITION CONTRACTOR and CONSTRUCTION MANAGER.** This TRADE CONTRACTOR is responsible for disconnecting and MAKING SAFE AND DRAINING all HVAC related piping, ductwork,

equipment, controls that are **“to be removed”**. Removal of these items to be by DEMOLITION CONTRACTOR.

Note: All refrigerant is to be reclaimed and is the responsibility of this TRADE CONTRACTOR.

Note: Demolition, removal, and disposal related to keynotes #1 & #6 on MD2.01BC, keynotes #1 & #5 on MD2.02BC, keynotes #1 on MD2.03BC sheets are the responsibility of this TRADE CONTRACTOR. This involves demolition/removal of unit vents and associated piping.

Note: Unless otherwise noted, all branch HVAC piping **“to be removed”** needs to be disconnected and capped at piping header and labeled for DEMOLITION Contractor. (Tunnel work)

13. The section of 6” DTWS/R piping in tunnel that extends to the south and west shown on M3.00B.C will be by OTHERS. The 6” DTWS/R piping that extends east and west in tunnel shown on M3.00F.C will also be by others. This work is anticipated to be installed over Christmas Break 2019. However, this TRADE CONTRACTOR will be responsible for extending these lines up from tunnel and connecting to existing DTWS/R piping shown on 1st floor (Ref M3.01F.C).
14. This TRADE CONTRACTOR shall be responsible for the installation of smoke detectors in duct work, smoke duct detectors supplied by FIRE ALARM CONTRACTOR. THIS TRADE CONTRACTOR shall coordinate the locations with FIRE ALARM CONTRACTOR. All work completed according to the drawings, specifications and contract documents.
15. This TRADE CONTRACTOR shall be responsible for furnishing and installing any vent piping that may be required for any equipment (HVAC related equipment) as listed in the specifications and shown on the construction documents.
16. This TRADE CONTRACTOR shall furnish and install all roof curbs/rails and associated materials i.e. vibration isolators and/or elastomeric pads required for equipment according to the drawings, specifications and contract documents. This TRADE CONTRACTOR responsible for furnishing and installing all insulated roof curbs for ductwork/equipment openings. Flashing of Curbs and Roofing by ROOFING TRADE CONTRACTOR. Steel Structure for New RTU equipment will be by the STEEL TRADE CONTRACTOR. This TRADE CONTRACTOR responsible for coordinating with STEEL TRADE CONTRACTOR and Structural Engineer for all equipment support requirements, sizes, and locations.
17. This TRADE CONTRACTOR shall install all condensate piping as necessary whether indicated or not. Where drawings do not indicate where to run the condensate drain to, this trade contractor shall seek approval of their proposed location from CONSTRUCTION MANAGER. THIS TRADE CONTRACTOR shall make every effort to install the condensate drain line without the use of a condensate pump. If a condensate pump is needed, this shall be provided. THIS TRADE CONTRACTOR shall provide a pump that does not require hardwiring from the electrician and simply plugs into a standard wall outlet.
18. This TRADE CONTRACTOR shall provide temporary protection of all HVAC equipment, ductwork, and piping during construction according to the specifications. This shall include but is not limited to sealing all open ends of ductwork at all times to prevent dirt and dust from entering this ductwork. This shall apply to ductwork being stored on site prior to installation as well as the ductwork after it is installed. Failure to adequately

protect ductwork will result in THIS TRADE CONTRACTOR being back-charged for any duct cleaning that will be required. Where equipment needs to be installed prior to the building being “watertight” this trade contractor shall provide, install, maintain and subsequently remove protection for this equipment.

NOTE: This TRADE CONTRACTOR shall seal new ductwork airtight with new duct mastic at all existing Joint/Connections.

19. This TRADE CONTRACTOR shall furnish and deliver to the ELECTRICAL CONTRACTOR, at the project site, all loose motor control devices and VFD's for HVAC equipment and any other items considered part of the HVAC system but requiring installation by the ELECTRICAL TRADE CONTRACTOR (Coordinate with electrical specifications). This Trade Contractor shall be aware of the electrical contractor's scope of work. ELECTRICAL CONTRACTOR will always be responsible for a single point of connection for each piece of HVAC equipment at a minimum.
20. This TRADE CONTRACTOR shall furnish and install all required piping identification, valve tagging, equipment tagging, and charts as per the specifications. Valve tags shall not be repeated anywhere in the building. A detailed schematic and list shall be provided and installed in the main mechanical room or in a location as selected by the owner.
21. This TRADE CONTRACTOR shall include all testing and balancing of HVAC system as required in obtaining approval of architect, engineer, owner, inspection authorities and other agencies. Provide required out-of-sequence and/or additional testing and balancing of HVAC systems to permit expedited completion of partitions, ceilings and other work, including furnishing and installing additional valves as required to complete the balancing and testing of work according to the drawings, specifications and contract documents.

NOTE: The project has contracted with a 3rd party Commissioning Agent. This TRADE CONTRACTOR shall be responsible for any required coordination and provide all necessary manpower to work with the Commissioning agent for all required testing. This TRADE CONTRACTOR shall respond to any items brought up by the commissioning agent within a timely order.

22. This TRADE CONTRACTOR shall be responsible for and compliant with all specified requirements including but not limited to all: Performance Requirements, Submittals, QA, Testing, Training, QC, and Extra Materials specified and pertaining to this trade contractor's work as noted in the plans and specifications.

Note: This TRADE CONTRACTOR's Guarantee/warranty period of equipment will not start until after final acceptance, including any and all equipment utilized before final acceptance. Targeted Substantial Completion Date of 8/1/21.

Note: This TRADE CONTRACTOR shall be responsible for any out-of-sequence and/or additional piping & testing of contractor's work to permit expedited completion of partitions, ceilings, and other work, including the furnishing and installation of equipment.

23. This TRADE CONTRACTOR shall **NOT** be responsible for fire stopping and acoustical sealants for all thru wall penetrations in rated and acoustical sensitive walls as indicated on construction documents and/or as specified in the project manual. This work is to be completed by the **General Trades Contractor**.

NOTE: Refer to AC Series Drawings regarding details for penetrations to acoustical-sensitive walls. Any sheet metal flashing or closures required to accomplish these details shall be by this TRADE CONTRACTOR. Any sealants required for it shall be by the General Trades Contractor.

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- 24. This TRADE CONTRACTOR shall provide all sleeves and coring of walls, floors, etc., including caulking, and packing of sleeves and openings as indicated on construction documents and/or as specified in the project manual. Contractor to protect all floor openings left in floors for passage of piping and other items. Any scanning of walls/existing concrete floors shall be included in this TRADE CONTRACTOR's scope of work.
- 25. This TRADE CONTRACTOR shall provide all clip hangers, angles, and miscellaneous metal of any nature, which is required for work covered by this Contract.
- 26. This TRADE CONTRACTOR responsible for all new piping tie-ins and ductwork tie-ins, including new valves, vents, drains that might be required for these tie-ins. This TRADE CONTRACTOR responsible for coordinating all work required to complete the tie-ins, including shutdown/draining of existing systems.
- 27. This TRADE CONTRACTOR shall coordinate all piping & ductwork to avoid conflicts with areas required for other trade contractor's work (i.e., light fixtures, ceiling heights, FP Piping, FP Heads, etc...).

Note: Any Piping or ductwork which is not coordinated and results in re-work either by this TRADE CONTRACTOR or OTHERS, the cost of such re-work will be the responsibility of this TRADE CONTRACTOR.

Note: Any piping or ductwork resulting in lower ceiling heights than indicated in the construction documents will need approval from the CONSTRUCTION MANAGER. This piping or ductwork may be reinstalled at higher elevations at the request of the CONSTRUCTION MANAGER.

- 28. This TRADE CONTRACTOR shall include all rigging, hoisting, cranes, lifts, etc. necessary to install ALL of the mechanical equipment, ductwork or piping. Any crane/lift/hoisting equipment for all mechanical equipment must be mobilized, set up, utilized, taken down and demobilized with approval of the Construction Manager. Cribbing and protection of existing concrete, asphalt, roofing, and landscaping must be provided, and this TRADE CONTRACTOR will be responsible for any damages caused.
- 29. All shutdowns and/or interruptions in mechanical system shall be coordinated through Construction Manager and scheduled to minimize any disruption. Forty eight (48) hour notification must be provided to the Construction Manager of any shutdown or interruption that occurs even when facility is not in operation.
- 30. This TRADE CONTRACTOR shall be responsible for cutting metal decking to allow for main trunk lines. Metal decking support angles furnished and installed by others. Mechanical contractor must provide a detailed roof opening drawing for coordination with steel contractor in a timely manner. This drawing shall indicate size of openings and dimensions from nearest column lines.
- 31. This TRADE CONTRACTOR shall provide layout and direct the Flatwork Concrete Contractor on where to frame and pour concrete housekeeping pads needed for equipment furnished and installed by this TRADE CONTRACTOR.

Note: Concrete Housekeeping pads are by the CONCRETE TRADE CONTRACTOR

This TRADE CONTRACTOR to coordinate location of all Masonry Wall Openings required for new AHU equipment on 2nd and 3rd floors. All Masonry openings for ductwork, piping, and louvers to be by the MASONRY TRADE CONTRACTOR.

- 32. This TRADE CONTRACTOR to identify in bid proposal lead times for all major pieces of equipment.
- 33. This TRADE CONTRACTOR shall furnish and install equipment screens for roof top equipment per contract documents. Refer to specification section 108213 for further details and instructions.

ALLOWANCES, BOND, & ALTERNATES

- 1. This TRADE CONTRACTOR **shall include an allowance of \$50,000.00 in their base bid** to account for any unforeseen conditions with HVAC Demolition. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.
- 2. This TRADE CONTRACTOR will be required to provide a Performance and Payment Bond for their work in accordance with 00201 of the General Conditions.
- 3. (Addendum #2) This TRADE CONTRACTOR shall provide an **Alternate 1.0 AAON Alternate** to substitute AAON as the manufacturer for RTUS 1, 2, 4, and 5.
- 4. (Addendum #2) This TRADE CONTRACTOR shall provide an **Alternate 2.0 AAON Alternate** to substitute AAON as manufacturer for RTUS 3A & 3B, provided that AAON can manufacturer the side discharge roof top units.

ACCEPTANCE

Accepted as listed above in addition to terms and conditions of the original construction documents on which the bid was based.

Company: Wight Construction Services, Inc.
2500 North Frontage Road
Darien, IL 60561

Signed: _____

Printed Name: _____

Position: _____

Date: _____

END OF SECTION 00300 –Scope

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BID DATE: December 19th, 2019 at 1:00 p.m. (CST)
(as date/time stamped by District 99's Receptionist)

BID TO: Community High School District 99
Administrative Center
6301 Springside Avenue
Downers Grove, IL 60516

RECEIVED BY:

BID FROM: _____

BID FOR: **Bid Group 8 Bid Package #81 – Excavation & Site Utilities**

South High School
1436 Norfolk Street
Downers Grove, IL 60516

It is required to have one original and one copy of your bid form.

THE UNDERSIGNED:

Acknowledges receipt of:

Plans and specifications for the work indicated above.

Addenda: No. _____ dated _____
No. _____ dated _____
No. _____ dated _____
No. _____ dated _____

Having examined the site of the work, and having familiarized himself or herself with local conditions affecting the cost of the work and with all requirements of the bidding documents including Instructions to Bidders, drawings, specifications and duly issued addenda as prepared by the architect, Wight & Company, hereby agrees to perform all work and furnish all labor, material and equipment specifically required of him by the bidding documents and such additional work as may be included as related requirements in other divisions or sections of the specifications, exclusive of alternate bids.

Agrees:

To furnish and install the described material and/or services for stated lump sum price.

To hold this bid open until **90** calendar days after bid opening date.

DIVISION 0 – BIDDING & CONTRACT REQUIREMENTS
SECTION 00381 - BID FORM

To accept the provisions of the General Provisions (Project Manual Division 0 – Bidding & Contracting Requirements Section 00201) and disposition of bid security.

To enter into and execute a contract with the Owner, if awarded on the basis of this bid, and in connection therewith to:

1. Furnish all bonds and insurance required by the bidding documents.
2. Accomplish the work in accordance with the contract.
3. Complete the work within the contract time herein specified.

Completion Time:

The undersigned agrees to begin construction immediately, or as directed by the Construction Manager, upon notice of contract award and to perform the following components of the work in accordance with the Construction Manager's Construction. This schedule is bound in the Project Manual. See attached scope of work in section 0300.

SCOPE OF WORK:

The work in this agreement (without additional compensation) shall include, but shall not necessarily be limited to, all skilled labor, supervision, premium time, materials, tools, equipment, plant, supplies, samples, shop drawings, design/engineering drawings, layout, transportation, supervision, contributions, insurance, taxes (if applicable), compliance with all agencies (City / Village, County, State, Federal and/or any other jurisdictional agency, as may be required) and/or all services and facilities necessary and/or required for the performance of all Work shown, detailed, and/or implied by the following documents and as defined herein.

It is understood that this Trade Contractor shall perform the Work for a complete and operational system as indicated or implied in all Contract Documents. It is recognized and understood that the documents upon which the bid is based are at a conceptual phase and this Contractor who has certain skills and judgments based upon his knowledge of techniques, procedures, systems, general state of the art of his specialty is expected to include in the scope of work, all items required in order to carry out a complete and functional system whether or not shown or described in the contract documents. This contract will be awarded on the basis of such documents with the understanding that this contractor is to furnish and install all items required for the proper completion of this work without adjustment to this contract price. No extra payments shall be made of claims entertained as a result of such items, unless it can be clearly demonstrated to be added scope to the contract and beyond the original intent of the documents.

Contractor to provide all Trade Contract work referenced in:

1. Any sheet of this bid group package including (reference Division 0 – Bidding and Contract Requirements, Section 00200 – Notice to Bidders).
2. Specification 00300 Bid Packages Scope Document.

WORK BASE BID: For providing all work including all allowances as required for the completion of the construction of the base bid project as shown on the drawings and specifications and NOT including alternate bids and/or contractor's proposed alternates and substitutes.

BASE BID

TOTAL BASE BID AMOUNT SOUTH HIGH SCHOOL MASTER FACILITY PLAN

_____ Dollars (\$ _____)

1. This TRADE CONTRACTOR **shall include an allowance of \$30,000.00 in their base bid** to account for any unforeseen conditions. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.
2. This TRADE CONTRACTOR **shall include a layout/surveying allowance of \$10,000.00 in their base bid** to account for layout, surveying and utility locating associated to this TRADE CONTRACTOR's scope of work per scope item #2 of this document. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.
3. This TRADE CONTRACTOR **shall include an allowance of \$15,000.00 in their base bid** to account for the installation and removal of temporary haul road and laydown areas per scope item #10 of this document. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.
4. This TRADE CONTRACTOR shall include **a SWPPP allowance of \$5,000.00** to be included in the base bid to account for future maintenance of Sediment and Erosion Control Measures. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.
5. Addendum #2) This TRADE CONTRACTOR shall include a **Directional Boring allowance of \$120,000.00** to be included in the base bid to account for the directional boring associated with scope item #16. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of the Construction Manager.

NOTE: This allowance is for unforeseen maintenance of the Erosion Control Measures. Initial install and maintenance are included in Base Bid work and will not be covered by this allowance.

Alternate 1: This TRADE CONTRACTOR shall be responsible for the directional boring required to install the new underground storm piping from structure STM8.0 to STM8.1. The directional boring allowance listed below shall be utilized for this work.

_____ Dollars (\$ _____)

BONDS:

This TRADE CONTRACTOR will be required to provide a Performance and Payment Bond for their work in accordance with 00201 of the General Conditions.

Award Basis:

The project will be awarded based upon the attached Evaluation Criteria, Section 301a. Owner and Construction Manager alternate's may be considered to find the most qualified bidder if the result of combining the base bid and the selected alternate(s) is the most qualified bid, and is to the benefit of the owner.

Each of the following amounts for alternate construction includes the entire cost of such construction, except as otherwise noted. Acceptance of any or all of the alternates for inclusion in the contract is the sole prerogative of the owner.

All additional costs due to the alternates are included in the amount to be added to the base bid, so that no additional costs will be borne by the owner due to acceptance of alternates. This alternate price is not to be included in the base bid price.

Owner Requested Alternates:

Each of the following amounts for alternate construction includes the entire cost of such construction, except as

DIVISION 0 – BIDDING & CONTRACT REQUIREMENTS
SECTION 00381 - BID FORM

otherwise noted. Acceptance of any or all of the alternates for inclusion in the contract is the sole prerogative of the owner.

All additional costs due to the alternates are included in the amount to be added to the base bid, so that no additional costs will be borne by the owner due to acceptance of alternates.

Proposed Alternates: (Contractors Proposed Alternates)

Item Specified	Proposed Alternate	Change in Bid Price
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____

Owner Requested Unit Prices/Allowances (as applicable to this Trade Contractor's scope of work) (additive or deductive).

This trade contractor includes _____ dumpsters for all refuse caused by this trade contractor's work in the amount of _____ Dollars (\$ _____) Note: trade contractors are to include in their bid form submittal the quantity of dumpsters required to complete their work and the cost associated with same. Dumpster costs will be subtracted by change order. Dumpsters will be procured and managed by Construction Manager. Note: Dumpster use in excess of that proposed by this Trade Contractor will be adjusted by back charge.

Owner Requested Scheduling Information:

Note: The work of this Trade Contractor is to be completed in accordance with the overall project schedule as identified elsewhere in this project manual and/or as subsequently directed by Construction Manager. This Trade Contractor shall submit a proposed submittals list/schedule/material log within five (5) calendar days of Notice To Proceed.

1. Shop drawings / Submittal for this trade contractor will be submitted within 10 calendar days of receipt of notice to proceed.

Bid Acceptance:

If written notice of the acceptance of this bid is mailed, telegraphed or delivered to the undersigned within the time noted herein, after the date of opening of bids or at any time thereafter before this bid is withdrawn, the undersigned agrees that he will execute a construction contract in accordance with the bids as accepted.

The Owner reserves the right to award the contract to its best interests, review and accept any and all value engineering alternatives, negotiate with the lowest responsible bidder, to reject any or all bids, to waive any informalities in bidding and to hold all bids for the bid guarantee period. The Owner reserves the right to award separate contracts for any of the items of work bid herein.

Bid Deposit:

The undersigned furnishes herewith, as required in the Instructions to Bidders, a bid deposit in the amount of ten percent (10%) of the amount bid in the form of Cashier's Check, or Certified Check, made payable to the Owner or Bid Bond, naming the Owner as obligee. (Bidder to check form of deposit furnished.)

It is understood and agreed that should the undersigned fail to enter into a contract with the Owner or furnish acceptable contract security within the time and in the manner herein provided, the bid deposit shall be retained by the Owner as liquidated damages and not as a forfeiture. As it is impossible to determine precisely an exact

amount of damages the Owner will sustain, it is agreed that the bid deposit is a fair and equitable estimate of such damages.

REPRESENTATIONS AND CERTIFICATIONS:

The bidder makes the following representations and certifications as part of his bid on the project herein identified in the Bid Form. In the case of a joint venture bid, each party represents and certifies as to his own organization.

AVAILABILITY. The number and amount of contracts and awards pending which I am and/or will be obligated to perform, now and during the course of the project, will not interfere with or hinder the timely prosecution of my work.

SURETY. I have notified a Surety Company that I am submitting a bid for work to be performed on the project. The Surety Company has agreed to issue a performance and labor and material payment bond for my work, if my bid is accepted and the contract awarded to me.

INDEPENDENT PRICE DETERMINATION. The contract sum in this bid has been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.

PREVAILING WAGE. The contractor and each subcontractor shall pay not less than the general prevailing rate of hourly wages for work of a similar character in the locality in which the work is performed and not less than general prevailing rate of hourly wages for legal holidays and overtime work in the performance of work under this contract, as established by the Illinois Department of Labor, pursuant to an act of the General Assembly of the State of Illinois approved June 26, 1941 as amended according to Section 820 ILCS 130/1.

Pursuant to Section 820 ILCS 130/5, the contractor and each subcontractor shall keep an accurate record showing the names and occupation of all laborers, workers and mechanics employed by them, and also showing the actual hourly wages paid to each such individual, which record shall be open at all reasonable hours to inspection by the Owner, its officers and agents, and to agents of the Illinois Department of Labor.

The contractor and each subcontractor hereby agree, jointly and severally, to defend, indemnify and hold harmless the Owner from any and all claims, demands, liens or suits of any kind or nature whatsoever (including suits for injunctive relief) by the Illinois Department of Labor under the Illinois Prevailing Wage Act, Section 820 ILCS 130/1., or by any laborer, worker or mechanic employed by the contractor or the subcontractor who alleges that he has been paid for his services in a sum less than prevailing wage rates required by Illinois law. The Owner agrees to notify the contractor or subcontractor of the pendency of any such claim, demand, lien or suit.

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By submitting a bid, each bidder agrees to waive any claim it has or may have against the Owner, the Architect, Engineer, Construction Manager and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any bid; waiver of any requirements under the Bid Documents; or the Contract Document; acceptance or rejection of any bids; and award of the Contract.

Signature:

Respectfully submitted this _____ day _____, 2019

Type of Firm (Bidder to indicate)

_____ Individual

_____ Partnership

_____ Corporation

_____ Joint Venture

_____ Other

(Firm Name)

(Address)

(CORPORATE SEAL)

(Telephone Number) (FAX)

(E-mail Address)

(Bidder's Signature)

(Title)

Subscribed and sworn to me
this _____ day of _____, 2019

NOTE: All pages of this bid form must be returned with your proposal. Failure to do so shall disqualify your bid.

CERTIFICATE OF BIDDER ELIGIBILITY

720 ILCS 5/33E-11 REQUIRES THAT ALL CONTRACTORS BIDDING FOR PUBLIC AGENCIES IN THE State of Illinois certify that they are not barred from bidding on public contracts for bid rigging or bid rotation.

The following certification must be signed and submitted with bidder's bid proposal. FAILURE TO DO SO MAY RESULT IN DISQUALIFICATION OF THE BIDDER.

_____, as part of its bid for the _____ work for Community High School District 99, Downers Grove, Illinois, DuPage County, Illinois certified that said contractor is not barred from bidding on the aforementioned contract as a result of violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33-E4.

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

SUBSCRIBED AND SWORN TO before me

This _____ day of _____, 2019

NOTARY PUBLIC

**CRIMINAL CODE CERTIFICATION
AS REQUIRED BY:
STATE OF ILLINOIS CRIMINAL CODE OF 2012, 720 ILCS 5/33E-11**

I, _____ the individual whose signature appears below on this bid/contract
for _____ hereby certify that the bidding
party/contracting party is not barred from bidding on the contract as a result of a violation of either Section 33E-3 or
Section 33E-4 of 720 ILCS 5/33E-3 or 5/33E-4 of the Illinois Compiled Statutes, as amended.

By: _____
Authorized Agent of Contractor (name and title)

SUBSCRIBED AND SWORN to before
me this ____ day _____, 20__.

Notary Public

EQUAL EMPLOYMENT OPPORTUNITY

Section I. This EQUAL EMPLOYMENT OPPORTUNITY CLAUSE is required by the Illinois Human Rights Act and the Rules and Regulations of the Illinois Department of Human Rights published at 44 Illinois Administrative Code Section 750, *et seq.*

Section II. In the event of the Contractor's noncompliance with any provision of this Equal Employment Opportunity Clause, the Illinois Human Rights Act, or the Rules and Regulations of the Department of Human Rights (hereinafter referred to as the Department) the Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and this Contract may be canceled or voided in whole or in part, and other sanctions or penalties may be imposed or remedies involved as provided by statute or regulation.

During the performance of this Agreement, the Contractor agrees:

A. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.

B. That, if it hires additional employees in order to perform this Contract, or any portion hereof, it will determine the availability (in accordance with the Department's Rules and Regulations) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.

C. That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizenship status, age, or physical or mental handicap unrelated to ability, military status or an unfavorable discharge from military service.

D. That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Vendor's obligations under the Illinois Human Rights Act and Department's Rules and Regulations. If any labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with the Act and Rules and Regulations, the Contractor will promptly notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations under the Contract.

E. That it will submit reports as required by the Department's Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and Department's Rules and Regulations.

F. That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and Department's Rules and Regulations.

G. That it will include verbatim or by reference the provisions of this Equal Employment Opportunity Clause in every subcontract it awards under which any portion of this Contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as the other provisions of this Agreement, the Contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the Contractor will not utilize any subcontractor declared by the Illinois Human Rights Department to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

ACKNOWLEDGED AND AGREED TO:

By: _____
Authorized Agent of Contractor (name and title)

DATE: _____

SEXUAL HARASSMENT POLICY

_____, having submitted a bid for _____ (Name of Contractor)
_____ to Community High School District No. 00, hereby
certifies that said contractor has a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-
105 (A) (4).

By: _____
Authorized Agent of Contractor (name and title)

SUBSCRIBED AND SWORN to before
me this ____ day _____, 20__.

Notary Public

TAX CERTIFICATION

I, _____, having been first duly sworn depose and state as follows:

I, _____, am the duly authorized agent for
_____ which has submitted a proposal to Community
High School District No. 99 for

_____ and I hereby certify that
_____ is not delinquent in the payment of any tax administered by the
Illinois Department of Revenue, or if it is:

a. it is contesting its liability for the tax or the amount of tax in accordance with procedures established by the appropriate Revenue Act; or

b. it has entered into an agreement with the Department of Revenue for payment of all taxes due and is currently in compliance with that agreement.

By: _____
Authorized Agent of Contractor (name and title)

SUBSCRIBED AND SWORN to before
me this _____ day _____, 20__.

Notary Public

SUBSTANCE ABUSE PREVENTION ON PUBLIC WORKS PROJECTS

The Contractor certifies that it has in place a written program that meets or exceeds the program requirements of the Substance Abuse Prevention on Public Works Projects Act (Public Act 95-0635), and will provide a copy thereof to Community High School District No. 99 prior to commencement of work on the Project.

By: _____
Authorized Agent of Contractor (name and title)

SUBSCRIBED AND SWORN to before
me this ____ day _____, 20__.

Notary Public

**CERTIFICATE REGARDING
EMPLOYMENT OF ILLINOIS WORKERS ON PUBLIC WORKS**

_____ agrees if at the time the Agreement is executed, or if during the term of the Agreement, there is excessive unemployment in Illinois as defined in the Employment of Illinois Workers on Public Works Act, 30- ILCS 570/0/01 et seq., as two consecutive months of unemployment exceeding 5%, then _____ agrees to employ Illinois laborers in accordance with the Employment of Illinois Workers on Public Works Act. An "Illinois laborer" is defined as any person who has resided in Illinois for at least thirty (30) days and intends to become or remain an Illinois resident.

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

SUBSCRIBED AND SWORN TO before me

This _____ day of _____, 2019

NOTARY PUBLIC

PREVAILING WAGE AFFIDAVIT

AFFIDAVIT: "I (we) hereby certify and affirm that if awarded a contract with Community High School District 99, we will comply fully with the "Illinois Prevailing Wage Act (Ill. Rev. Stat., 1987 Ch. 48, Sections 398 s-1-12 as amended by Public Act 86-693 and 86-799 effected January 1, 1990, and any other amendments effective thereafter)". We further understand that current prevailing wage standards are included in the Supplementary General Conditions.

The following affidavit must be signed and submitted with bidder's bid proposal. FAILURE TO DO SO MAY RESULT IN DISQUALIFICATION OF THE BIDDER.

_____, as part of its bid for the _____ work for Community High School District 99, Downers Grove, Illinois, certifies that said contractor is not barred from bidding on the aforementioned contract as a result of a violation of the Illinois Prevailing Wage Act (Ill. Rev. Stat., 1987 Ch. 48, Sections 398 s-1-12 as amended by Public Act 86-693 and 86-799 effected January 1, 1990).

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

SUBSCRIBED AND SWORN TO before me

This _____ day of _____, 2019

NOTARY PUBLIC

NON-COLLUSION AFFIDAVIT

AFFIDAVIT: "I (we) hereby certify and affirm that my (our) proposal was prepared independently for this project and that it contains no fees or amounts other than that for the legitimate execution of this work as specified and that it includes no understanding or agreements in restraint of trade."

The following affidavit must be signed and submitted with bidder's bid proposal.
FAILURE TO DO SO MAY RESULT IN DISQUALIFICATION OF THE BIDDER.

_____, as a part of its bid for the _____ work for
Community High School District 99, Downers Grove, Illinois, certifies that said Contractor is not barred from bidding
on the aforementioned contract as a result of a violation of the above Non-Collusion Affidavit.

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

SUBSCRIBED AND SWORN TO before me

This _____ day of _____, 2019

NOTARY PUBLIC

Criminal Background Investigations

Contractor hereby represents, warrants and certified that no officer or director thereof has any knowledge that any employee thereof has been convicted of committing or attempting to commit "Criminal Code of 1961," 720 ILCS, Sections 5/11-6 (Indecent solicitation of a child), 5/11-9 (Public indecency), 5/11-14 (Prostitution), 5/11-15 (Soliciting for a prostitute), 5/11-15.1 (Soliciting for a juvenile prostitute), 5/11-19 (Pimping), 5/11-19.1 (Juvenile pimping), 5/11-19.2 (Exploitation of a child), 5/11-20 (Obscenity), 5/11-20.1 (Sexual assault), 5/12-14 (Aggravated criminal sexual assault), 5/12-15 (Criminal sexual abuse), and 5/120-16 (Aggravated criminal sexual abuse), and/or those offenses defined in the "Cannabis Control Act," 720 ILCS, 550/1 et seq. (except the "Illinois Controlled Substances Act," 720 ILCS 570/100 et seq. and/or any offense committed or attempted in any other state or against the laws of the United States, which if committed or attempted in this State, would have been punishable as one or more of the foregoing offenses.

Contractor further agrees that it shall not employ any person who have or may have direct, daily contact with the pupils of any school in the district, and for whom a criminal background investigation has not been conducted pursuant hereto, and further represents and agrees that all applicants for any such employment shall furnish with their applications the attached written "Authorization for Criminal Background Information" form authorizing the Board of Education to request a criminal background investigation of said applicant pursuant to Section 5/10-21.9 of the School Code of Illinois and to receive criminal history record information pursuant thereto to determine if the applicant has been convicted of committing or attempting to commit any of the criminal or drug offenses enumerated above. Contractor further agrees to submit with said authorization payment for any costs and expenses associated with the criminal background investigation.

Contractor further represents, warrants, and certifies that no applicant for employment with respect to whom the criminal investigation reveals any conviction for committing and/or attempting to commit any of the above enumerated offenses shall be employed thereby in any position that involves or may involve contact with the students of the school district.

This certification is executed on the date hereinafter indicated by the designated contractor by its duly authorized officer.

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

Date: _____

Criminal Background Investigation

The undersigned hereby authorizes in Board of Education of Community High School District 99, Downers Grove, Illinois, to request a criminal background investigation from the Illinois State Police, pursuant to Section 5/10-21.9 of the School Code of Illinois, 105 ILCS 5/10-21.9 and to receive criminal history record information pursuant thereto.

By: _____
(Signature of Applicant of Employee)

(Printed or Typed Name of Applicant Employee)

Date: _____

BUSINESS CLASSIFICATION

a) Business Entity (check one)

Corporation (Publicly held)* Not-for-Profit* Government Agency/Public Institution*
 Corporation (Privately held) Partnership Sole Proprietor

* If checked, do not complete section III (b) and (c) below.

b) Business Ownership (check one) If minority or woman owned, attach copy of certification evidence.

Large Business: Male Owned Woman Owned
Small Business: Male Owned Woman Owned

BUSINESS DEFINITIONS

Small Business Concern - an independently owned and operated concern certified, or certifiable, as a small business by the Federal Small Business Administration (SBA). Standard Industrial Classification (SIC) codes may be found in the Federal Acquisition Regulations, Section 19.102 or in the Federal Procurement Regulations, Section 1-1.701.

Small Disadvantaged or Minority Business Concern - a small business concern which is at least fifty-one percent (51%) owned by one or more socially and economically disadvantaged individuals or in the case of any publicly owned business, at least fifty-one percent (51%) of the stock of which is owned by such individuals; and whose management and daily business operations are controlled by one or more of such individuals. Business owners who certify that they are members of named groups (Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans) are considered socially and economically disadvantaged.

Woman-Owned Business - a business concern that is at least fifty-one percent (51%) owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" in this context means being actively involved in the day-to-day management.

c) Race/Ethnicity of Ownership (check one) based on definitions below.

Black Asian/Pacific or Asian/Indian Caucasian
 Hispanic Native American (American Indians, Eskimos, Aleuts and native Hawaiians)

ETHNIC GROUP DEFINITIONS

Black Americans: United States citizens whose origins are in any of the Black racial groups of Africa.
Hispanic Americans: United States citizens whose origins are in Mexico, Puerto Rico, Cuba, Portugal, Central or Central America.
Native Americans: United States citizens whose origins are in any of the original peoples of North America, i.e., American Indians, Eskimos, Aleuts and native Hawaiians.
Asian Pacific/Asian Indian Americans: United States citizens whose origins are in Japan, China, Korea, Taiwan, Cambodia, Laos, Vietnam, the Philippines, Samoa, Guam, the U.S. Trust Territories of the Pacific Islands, the Northern Mariana Islands, India, Pakistan, or Bangladesh.

I certify that the business classification and ethnicity indicated above reflects the true and correct status of this business in accordance with current Federal Small Business Administration criteria. I agree to inform Community High School District 99 immediately in writing of any changes to the information contained herein, including changes in ownership, controlling interest or operations. I understand that falsely certifying this information may result in suspension from participation in Community High School District 99 - North High School Phase II project.

Name: _____ Title: _____
(Print or Type)

Signature: _____ Date: _____

END OF SECTION 00301

BID DATE: December 19th, 2019 at 1:45 p.m. (CST)
(as date/time stamped by District 99's Receptionist)

BID TO: Community High School District 99
Administrative Center
6301 Springside Avenue
Downers Grove, IL 60516

RECEIVED BY:

BID FROM: _____

BID FOR: ***Bid Group 8 Bid Package #91 - Mechanical***

South High School
1436 Norfolk Street
Downers Grove, IL 60516

It is required to have one original and one copy of your bid form.

THE UNDERSIGNED:

Acknowledges receipt of:

Plans and specifications for the work indicated above.

Addenda: No. _____ dated _____
No. _____ dated _____
No. _____ dated _____
No. _____ dated _____

Having examined the site of the work, and having familiarized himself or herself with local conditions affecting the cost of the work and with all requirements of the bidding documents including Instructions to Bidders, drawings, specifications and duly issued addenda as prepared by the architect, Wight & Company, hereby agrees to perform all work and furnish all labor, material and equipment specifically required of him by the bidding documents and such additional work as may be included as related requirements in other divisions or sections of the specifications, exclusive of alternate bids.

Agrees:

To furnish and install the described material and/or services for stated lump sum price.

To hold this bid open until **90** calendar days after bid opening date.

DIVISION 0 – BIDDING & CONTRACT REQUIREMENTS
SECTION 00391 - BID FORM

To accept the provisions of the General Provisions (Project Manual Division 0 – Bidding & Contracting Requirements Section 00201) and disposition of bid security.

To enter into and execute a contract with the Owner, if awarded on the basis of this bid, and in connection therewith to:

1. Furnish all bonds and insurance required by the bidding documents.
2. Accomplish the work in accordance with the contract.
3. Complete the work within the contract time herein specified.

Completion Time:

The undersigned agrees to begin construction immediately, or as directed by the Construction Manager, upon notice of contract award and to perform the following components of the work in accordance with the Construction Manager's Construction. This schedule is bound in the Project Manual. See attached scope of work in section 0300.

SCOPE OF WORK:

The work in this agreement (without additional compensation) shall include, but shall not necessarily be limited to, all skilled labor, supervision, premium time, materials, tools, equipment, plant, supplies, samples, shop drawings, design/engineering drawings, layout, transportation, supervision, contributions, insurance, taxes (if applicable), compliance with all agencies (City / Village, County, State, Federal and/or any other jurisdictional agency, as may be required) and/or all services and facilities necessary and/or required for the performance of all Work shown, detailed, and/or implied by the following documents and as defined herein.

It is understood that this Trade Contractor shall perform the Work for a complete and operational system as indicated or implied in all Contract Documents. It is recognized and understood that the documents upon which the bid is based are at a conceptual phase and this Contractor who has certain skills and judgments based upon his knowledge of techniques, procedures, systems, general state of the art of his specialty is expected to include in the scope of work, all items required in order to carry out a complete and functional system whether or not shown or described in the contract documents. This contract will be awarded on the basis of such documents with the understanding that this contractor is to furnish and install all items required for the proper completion of this work without adjustment to this contract price. No extra payments shall be made of claims entertained as a result of such items, unless it can be clearly demonstrated to be added scope to the contract and beyond the original intent of the documents.

Contractor to provide all Trade Contract work referenced in:

1. Any sheet of this bid group package including (reference Division 0 – Bidding and Contract Requirements, Section 00200 – Notice to Bidders).
2. Specification 00300 Bid Packages Scope Document.

WORK BASE BID: For providing all work including all allowances as required for the completion of the construction of the base bid project as shown on the drawings and specifications and NOT including alternate bids and/or contractor's proposed alternates and substitutes.

BASE BID

TOTAL BASE BID AMOUNT SOUTH HIGH SCHOOL MASTER FACILITY PLAN

_____ Dollars (\$ _____)

1. This TRADE CONTRACTOR **shall include an allowance of \$50,000.00 in their base bid** to account for any unforeseen conditions with HVAC Demolition. Contract amounts will be adjusted by change order for amounts greater or less than the allowance. Allowance to be utilized only at the direction of Construction Manager.

1. (Addendum #1) This TRADE CONTRACTOR shall provide an **Alternate 1.0 AAON Alternate** to substitute AAON as the manufacturer for RTUS 1, 2, 4, and 5.

_____ Dollars(\$ _____)

2. (Addendum #2) This TRADE CONTRACTOR shall provide an **Alternate 2.0 AAON Alternate** to substitute AAON as manufacturer for RTUS 3A & 3B, provided that AAON can manufacturer the side discharge roof top units.

_____ Dollars(\$ _____)

BONDS:

This TRADE CONTRACTOR will be required to provide a Performance and Payment Bond for their work in accordance with 00201 of the General Conditions.

Award Basis:

The project will be awarded based upon the attached Evaluation Criteria, Section 301a. Owner and Construction Manager alternate’s may be considered to find the most qualified bidder if the result of combining the base bid and the selected alternate(s) is the most qualified bid, and is to the benefit of the owner.

Each of the following amounts for alternate construction includes the entire cost of such construction, except as otherwise noted. Acceptance of any or all of the alternates for inclusion in the contract is the sole prerogative of the owner.

All additional costs due to the alternates are included in the amount to be added to the base bid, so that no additional costs will be borne by the owner due to acceptance of alternates. This alternate price is not to be included in the base bid price.

Owner Requested Alternates:

Each of the following amounts for alternate construction includes the entire cost of such construction, except as otherwise noted. Acceptance of any or all of the alternates for inclusion in the contract is the sole prerogative of the owner.

All additional costs due to the alternates are included in the amount to be added to the base bid, so that no additional costs will be borne by the owner due to acceptance of alternates.

Proposed Alternates: (Contractors Proposed Alternates)

1.	Item Specified	Proposed Alternate	Change in Bid Price
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

Owner Requested Unit Prices/Allowances (as applicable to this Trade Contractor’s scope of work) (additive or deductive).

This trade contractor includes _____ dumpsters for all refuse caused by this trade contractor's work in the amount of _____ Dollars (\$ _____) Note: trade contractors are to include in their bid form submittal the quantity of dumpsters required to complete their work and the cost associated with same. Dumpster costs will be subtracted by change order. Dumpsters will be procured and managed by Construction Manager. Note: Dumpster use in excess of that proposed by this Trade Contractor will be adjusted by back charge.

Owner Requested Scheduling Information:

Note: The work of this Trade Contractor is to be completed in accordance with the overall project schedule as identified elsewhere in this project manual and/or as subsequently directed by Construction Manager. This Trade Contractor shall submit a proposed submittals list/schedule/material log within five (5) calendar days of Notice To Proceed.

1. Shop drawings / Submittal for this trade contractor will be submitted within 10 calendar days of receipt of notice to proceed.

Bid Acceptance:

If written notice of the acceptance of this bid is mailed, telegraphed or delivered to the undersigned within the time noted herein, after the date of opening of bids or at any time thereafter before this bid is withdrawn, the undersigned agrees that he will execute a construction contract in accordance with the bids as accepted.

The Owner reserves the right to award the contract to its best interests, review and accept any and all value engineering alternatives, negotiate with the lowest responsible bidder, to reject any or all bids, to waive any informalities in bidding and to hold all bids for the bid guarantee period. The Owner reserves the right to award separate contracts for any of the items of work bid herein.

Bid Deposit:

The undersigned furnishes herewith, as required in the Instructions to Bidders, a bid deposit in the amount of ten percent (10%) of the amount bid in the form of Cashier's Check, or Certified Check, made payable to the Owner or Bid Bond, naming the Owner as obligee. (Bidder to check form of deposit furnished.)

It is understood and agreed that should the undersigned fail to enter into a contract with the Owner or furnish acceptable contract security within the time and in the manner herein provided, the bid deposit shall be retained by the Owner as liquidated damages and not as a forfeiture. As it is impossible to determine precisely an exact amount of damages the Owner will sustain, it is agreed that the bid deposit is a fair and equitable estimate of such damages.

REPRESENTATIONS AND CERTIFICATIONS:

The bidder makes the following representations and certifications as part of his bid on the project herein identified in the Bid Form. In the case of a joint venture bid, each party represents and certifies as to his own organization.

AVAILABILITY. The number and amount of contracts and awards pending which I am and/or will be obligated to perform, now and during the course of the project, will not interfere with or hinder the timely prosecution of my work.

SURETY. I have notified a Surety Company that I am submitting a bid for work to be performed on the project. The Surety Company has agreed to issue a performance and labor and material payment bond for my work, if my bid is accepted and the contract awarded to me.

INDEPENDENT PRICE DETERMINATION. The contract sum in this bid has been arrived at independently, without consultation, communication or agreement for the purpose of restricting competition.

DIVISION 0 – BIDDING & CONTRACT REQUIREMENTS
SECTION 00391 - BID FORM

PREVAILING WAGE. The contractor and each subcontractor shall pay not less than the general prevailing rate of hourly wages for work of a similar character in the locality in which the work is performed and not less than general prevailing rate of hourly wages for legal holidays and overtime work in the performance of work under this contract, as established by the Illinois Department of Labor, pursuant to an act of the General Assembly of the State of Illinois approved June 26, 1941 as amended according to Section 820 ILCS 130/1.

Pursuant to Section 820 ILCS 130/5, the contractor and each subcontractor shall keep an accurate record showing the names and occupation of all laborers, workers and mechanics employed by them, and also showing the actual hourly wages paid to each such individual, which record shall be open at all reasonable hours to inspection by the Owner, its officers and agents, and to agents of the Illinois Department of Labor.

The contractor and each subcontractor hereby agree, jointly and severally, to defend, indemnify and hold harmless the Owner from any and all claims, demands, liens or suits of any kind or nature whatsoever (including suits for injunctive relief) by the Illinois Department of Labor under the Illinois Prevailing Wage Act, Section 820 ILCS 130/1., or by any laborer, worker or mechanic employed by the contractor or the subcontractor who alleges that he has been paid for his services in a sum less than prevailing wage rates required by Illinois law. The Owner agrees to notify the contractor or subcontractor of the pendency of any such claim, demand, lien or suit.

DIVISION 0 – BIDDING & CONTRACT REQUIREMENTS
SECTION 00391 - BID FORM

By submitting a bid, each bidder agrees to waive any claim it has or may have against the Owner, the Architect, Engineer, Construction Manager and their respective employees, arising out of or in connection with the administration, evaluation, or recommendation of any bid; waiver of any requirements under the Bid Documents; or the Contract Document; acceptance or rejection of any bids; and award of the Contract.

Signature:

Respectfully submitted this _____ day _____, 2019

Type of Firm (Bidder to indicate)

_____ Individual

_____ Partnership

_____ Corporation

_____ Joint Venture

_____ Other

(CORPORATE SEAL)

(Firm Name)

(Address)

(Telephone Number) (FAX)

(E-mail Address)

(Bidder's Signature)

(Title)

Subscribed and sworn to me
this _____ day of _____, 2019

NOTE: All pages of this bid form must be returned with your proposal. Failure to do so shall disqualify your bid.

CERTIFICATE OF BIDDER ELIGIBILITY

720 ILCS 5/33E-11 REQUIRES THAT ALL CONTRACTORS BIDDING FOR PUBLIC AGENCIES IN THE State of Illinois certify that they are not barred from bidding on public contracts for bid rigging or bid rotation.

The following certification must be signed and submitted with bidder's bid proposal. FAILURE TO DO SO MAY RESULT IN DISQUALIFICATION OF THE BIDDER.

_____, as part of its bid for the _____ work for Community High School District 99, Downers Grove, Illinois, DuPage County, Illinois certified that said contractor is not barred from bidding on the aforementioned contract as a result of violation of either 720 ILCS 5/33E-3 or 720 ILCS 5/33-E4.

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

SUBSCRIBED AND SWORN TO before me

This _____ day of _____, 2019

NOTARY PUBLIC

**CRIMINAL CODE CERTIFICATION
AS REQUIRED BY:
STATE OF ILLINOIS CRIMINAL CODE OF 2012, 720 ILCS 5/33E-11**

I, _____ the individual whose signature appears below on this bid/contract
for _____ hereby certify that the bidding
party/contracting party is not barred from bidding on the contract as a result of a violation of either Section 33E-3 or
Section 33E-4 of 720 ILCS 5/33E-3 or 5/33E-4 of the Illinois Compiled Statutes, as amended.

By: _____
Authorized Agent of Contractor (name and title)

SUBSCRIBED AND SWORN to before
me this ____ day _____, 20__.

Notary Public

EQUAL EMPLOYMENT OPPORTUNITY

Section I. This EQUAL EMPLOYMENT OPPORTUNITY CLAUSE is required by the Illinois Human Rights Act and the Rules and Regulations of the Illinois Department of Human Rights published at 44 Illinois Administrative Code Section 750, *et seq.*

Section II. In the event of the Contractor's noncompliance with any provision of this Equal Employment Opportunity Clause, the Illinois Human Rights Act, or the Rules and Regulations of the Department of Human Rights (hereinafter referred to as the Department) the Contractor may be declared ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and this Contract may be canceled or voided in whole or in part, and other sanctions or penalties may be imposed or remedies involved as provided by statute or regulation.

During the performance of this Agreement, the Contractor agrees:

A. That it will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, national origin or ancestry, citizenship status, age, physical or mental disability unrelated to ability, military status or an unfavorable discharge from military service; and further that it will examine all job classifications to determine if minority persons or women are underutilized and will take appropriate affirmative action to rectify any such underutilization.

B. That, if it hires additional employees in order to perform this Contract, or any portion hereof, it will determine the availability (in accordance with the Department's Rules and Regulations) of minorities and women in the area(s) from which it may reasonably recruit and it will hire for each job classification for which employees are hired in such a way that minorities and women are not underutilized.

C. That, in all solicitations or advertisements for employees placed by it or on its behalf, it will state that all applicants will be afforded equal opportunity without discrimination because of race, color, religion, sex, sexual orientation, marital status, national origin or ancestry, citizenship status, age, or physical or mental handicap unrelated to ability, military status or an unfavorable discharge from military service.

D. That it will send to each labor organization or representative of workers with which it has or is bound by a collective bargaining or other agreement or understanding, a notice advising such labor organization or representative of the Vendor's obligations under the Illinois Human Rights Act and Department's Rules and Regulations. If any labor organization or representative fails or refuses to cooperate with the Contractor in its efforts to comply with the Act and Rules and Regulations, the Contractor will promptly notify the Department and the contracting agency and will recruit employees from other sources when necessary to fulfill its obligations under the Contract.

E. That it will submit reports as required by the Department's Rules and Regulations, furnish all relevant information as may from time to time be requested by the Department or the contracting agency, and in all respects comply with the Illinois Human Rights Act and Department's Rules and Regulations.

F. That it will permit access to all relevant books, records, accounts and work sites by personnel of the contracting agency and Department for purposes of investigation to ascertain compliance with the Illinois Human Rights Act and Department's Rules and Regulations.

G. That it will include verbatim or by reference the provisions of this Equal Employment Opportunity Clause in every subcontract it awards under which any portion of this Contract obligations are undertaken or assumed, so that such provisions will be binding upon such subcontractor. In the same manner as the other provisions of this Agreement, the Contractor will be liable for compliance with applicable provisions of this clause by such subcontractors; and further it will promptly notify the contracting agency and the Department in the event any subcontractor fails or refuses to comply therewith. In addition, the Contractor will not utilize any subcontractor declared by the Illinois Human Rights Department to be ineligible for contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations.

ACKNOWLEDGED AND AGREED TO:

By: _____
Authorized Agent of Contractor (name and title)

DATE: _____

SEXUAL HARASSMENT POLICY

_____, having submitted a bid for _____ (Name of Contractor)
_____ to Community High School District No. 00, hereby
certifies that said contractor has a written sexual harassment policy in place in full compliance with 775 ILCS 5/2-
105 (A) (4).

By: _____
Authorized Agent of Contractor (name and title)

SUBSCRIBED AND SWORN to before
me this ____ day _____, 20__.

Notary Public

TAX CERTIFICATION

I, _____, having been first duly sworn depose and state as follows:

I, _____, am the duly authorized agent for
_____ which has submitted a proposal to Community
High School District No. 99 for

_____ and I hereby certify that
_____ is not delinquent in the payment of any tax administered by the
Illinois Department of Revenue, or if it is:

a. it is contesting its liability for the tax or the amount of tax in accordance with procedures established by the appropriate Revenue Act; or

b. it has entered into an agreement with the Department of Revenue for payment of all taxes due and is currently in compliance with that agreement.

By: _____
Authorized Agent of Contractor (name and title)

SUBSCRIBED AND SWORN to before
me this ____ day _____, 20__.

Notary Public

SUBSTANCE ABUSE PREVENTION ON PUBLIC WORKS PROJECTS

The Contractor certifies that it has in place a written program that meets or exceeds the program requirements of the Substance Abuse Prevention on Public Works Projects Act (Public Act 95-0635), and will provide a copy thereof to Community High School District No. 99 prior to commencement of work on the Project.

By: _____
Authorized Agent of Contractor (name and title)

SUBSCRIBED AND SWORN to before
me this ____ day _____, 20__.

Notary Public

**CERTIFICATE REGARDING
EMPLOYMENT OF ILLINOIS WORKERS ON PUBLIC WORKS**

_____ agrees if at the time the Agreement is executed, or if during the term of the Agreement, there is excessive unemployment in Illinois as defined in the Employment of Illinois Workers on Public Works Act, 30- ILCS 570/0/01 et seq., as two consecutive months of unemployment exceeding 5%, then _____ agrees to employ Illinois laborers in accordance with the Employment of Illinois Workers on Public Works Act. An "Illinois laborer" is defined as any person who has resided in Illinois for at least thirty (30) days and intends to become or remain an Illinois resident.

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

SUBSCRIBED AND SWORN TO before me

This _____ day of _____, 2019

NOTARY PUBLIC

PREVAILING WAGE AFFIDAVIT

AFFIDAVIT: "I (we) hereby certify and affirm that if awarded a contract with Community High School District 99, we will comply fully with the "Illinois Prevailing Wage Act (Ill. Rev. Stat., 1987 Ch. 48, Sections 398 s-1-12 as amended by Public Act 86-693 and 86-799 effected January 1, 1990, and any other amendments effective thereafter)". We further understand that current prevailing wage standards are included in the Supplementary General Conditions.

The following affidavit must be signed and submitted with bidder's bid proposal. FAILURE TO DO SO MAY RESULT IN DISQUALIFICATION OF THE BIDDER.

_____, as part of its bid for the _____ work for Community High School District 99, Downers Grove, Illinois, certifies that said contractor is not barred from bidding on the aforementioned contract as a result of a violation of the Illinois Prevailing Wage Act (Ill. Rev. Stat., 1987 Ch. 48, Sections 398 s-1-12 as amended by Public Act 86-693 and 86-799 effected January 1, 1990).

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

SUBSCRIBED AND SWORN TO before me

This _____ day of _____, 2019

NOTARY PUBLIC

NON-COLLUSION AFFIDAVIT

AFFIDAVIT: "I (we) hereby certify and affirm that my (our) proposal was prepared independently for this project and that it contains no fees or amounts other than that for the legitimate execution of this work as specified and that it includes no understanding or agreements in restraint of trade."

The following affidavit must be signed and submitted with bidder's bid proposal.
FAILURE TO DO SO MAY RESULT IN DISQUALIFICATION OF THE BIDDER.

_____, as a part of its bid for the _____ work for
Community High School District 99, Downers Grove, Illinois, certifies that said Contractor is not barred from bidding
on the aforementioned contract as a result of a violation of the above Non-Collusion Affidavit.

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

SUBSCRIBED AND SWORN TO before me

This _____ day of _____, 2019

NOTARY PUBLIC

Criminal Background Investigations

Contractor hereby represents, warrants and certified that no officer or director thereof has any knowledge that any employee thereof has been convicted of committing or attempting to commit "Criminal Code of 1961," 720 ILCS, Sections 5/11-6 (Indecent solicitation of a child), 5/11-9 (Public indecency), 5/11-14 (Prostitution), 5/11-15 (Soliciting for a prostitute), 5/11-15.1 (Soliciting for a juvenile prostitute), 5/11-19 (Pimping), 5/11-19.1 (Juvenile pimping), 5/11-19.2 (Exploitation of a child), 5/11-20 (Obscenity), 5/11-20.1 (Sexual assault), 5/12-14 (Aggravated criminal sexual assault), 5/12-15 (Criminal sexual abuse), and 5/120-16 (Aggravated criminal sexual abuse), and/or those offenses defined in the "Cannabis Control Act," 720 ILCS, 550/1 et seq. (except the "Illinois Controlled Substances Act," 720 ILCS 570/100 et seq. and/or any offense committed or attempted in any other state or against the laws of the United States, which if committed or attempted in this State, would have been punishable as one or more of the foregoing offenses.

Contractor further agrees that it shall not employ any person who have or may have direct, daily contact with the pupils of any school in the district, and for whom a criminal background investigation has not been conducted pursuant hereto, and further represents and agrees that all applicants for any such employment shall furnish with their applications the attached written "Authorization for Criminal Background Information" form authorizing the Board of Education to request a criminal background investigation of said applicant pursuant to Section 5/10-21.9 of the School Code of Illinois and to receive criminal history record information pursuant thereto to determine if the applicant has been convicted of committing or attempting to commit any of the criminal or drug offenses enumerated above. Contractor further agrees to submit with said authorization payment for any costs and expenses associated with the criminal background investigation.

Contractor further represents, warrants, and certifies that no applicant for employment with respect to whom the criminal investigation reveals any conviction for committing and/or attempting to commit any of the above enumerated offenses shall be employed thereby in any position that involves or may involve contact with the students of the school district.

This certification is executed on the date hereinafter indicated by the designated contractor by its duly authorized officer.

Firm: _____

By: _____
(Signature)

(Printed Name & Title)

Date: _____

Criminal Background Investigation

The undersigned hereby authorizes in Board of Education of Community High School District 99, Downers Grove, Illinois, to request a criminal background investigation from the Illinois State Police, pursuant to Section 5/10-21.9 of the School Code of Illinois, 105 ILCS 5/10-21.9 and to receive criminal history record information pursuant thereto.

By: _____
(Signature of Applicant of Employee)

(Printed or Typed Name of Applicant Employee)

Date: _____

BUSINESS CLASSIFICATION

a) Business Entity (check one)

Corporation (Publicly held)* Not-for-Profit* Government Agency/Public Institution*
 Corporation (Privately held) Partnership Sole Proprietor

* If checked, do not complete section III (b) and (c) below.

b) Business Ownership (check one) If minority or woman owned, attach copy of certification evidence.

Large Business: Male Owned Woman Owned
Small Business: Male Owned Woman Owned

BUSINESS DEFINITIONS

Small Business Concern - an independently owned and operated concern certified, or certifiable, as a small business by the Federal Small Business Administration (SBA). Standard Industrial Classification (SIC) codes may be found in the Federal Acquisition Regulations, Section 19.102 or in the Federal Procurement Regulations, Section 1-1.701.

Small Disadvantaged or Minority Business Concern - a small business concern which is at least fifty-one percent (51%) owned by one or more socially and economically disadvantaged individuals or in the case of any publicly owned business, at least fifty-one percent (51%) of the stock of which is owned by such individuals; and whose management and daily business operations are controlled by one or more of such individuals. Business owners who certify that they are members of named groups (Black Americans, Hispanic Americans, Native Americans, Asian-Pacific Americans) are considered socially and economically disadvantaged.

Woman-Owned Business - a business concern that is at least fifty-one percent (51%) owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" in this context means being actively involved in the day-to-day management.

c) Race/Ethnicity of Ownership (check one) based on definitions below.

Black Asian/Pacific or Asian/Indian Caucasian
 Hispanic Native American (American Indians, Eskimos, Aleuts and native Hawaiians)

ETHNIC GROUP DEFINITIONS

Black Americans: United States citizens whose origins are in any of the Black racial groups of Africa.
Hispanic Americans: United States citizens whose origins are in Mexico, Puerto Rico, Cuba, Portugal, Central or Central America.
Native Americans: United States citizens whose origins are in any of the original peoples of North America, i.e., American Indians, Eskimos, Aleuts and native Hawaiians.
Asian Pacific/Asian Indian Americans: United States citizens whose origins are in Japan, China, Korea, Taiwan, Cambodia, Laos, Vietnam, the Philippines, Samoa, Guam, the U.S. Trust Territories of the Pacific Islands, the Northern Mariana Islands, India, Pakistan, or Bangladesh.

I certify that the business classification and ethnicity indicated above reflects the true and correct status of this business in accordance with current Federal Small Business Administration criteria. I agree to inform Community High School District 99 immediately in writing of any changes to the information contained herein, including changes in ownership, controlling interest or operations. I understand that falsely certifying this information may result in suspension from participation in Community High School District 99 - North High School Phase II project.

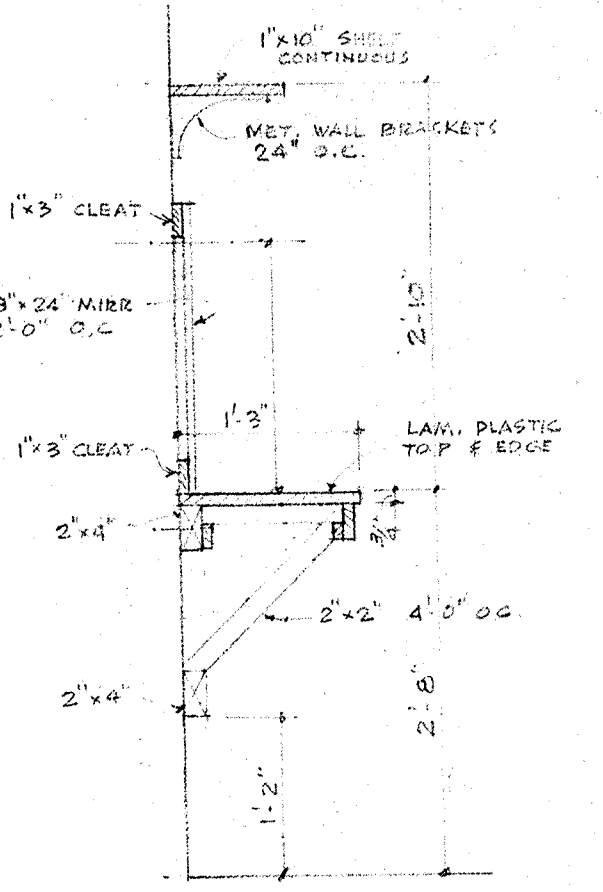
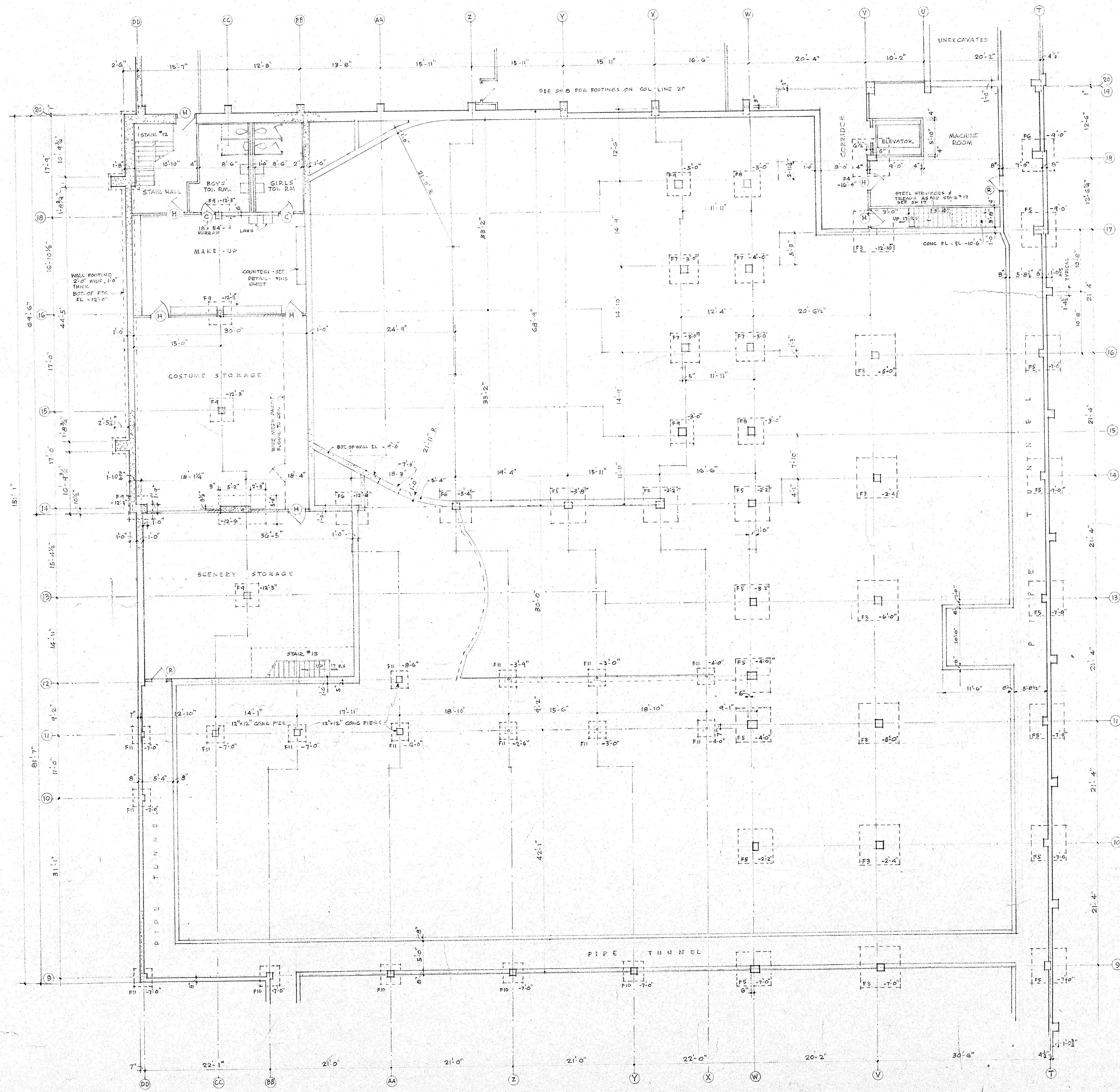
Name: _____ Title: _____
(Print or Type)

Signature: _____ Date: _____

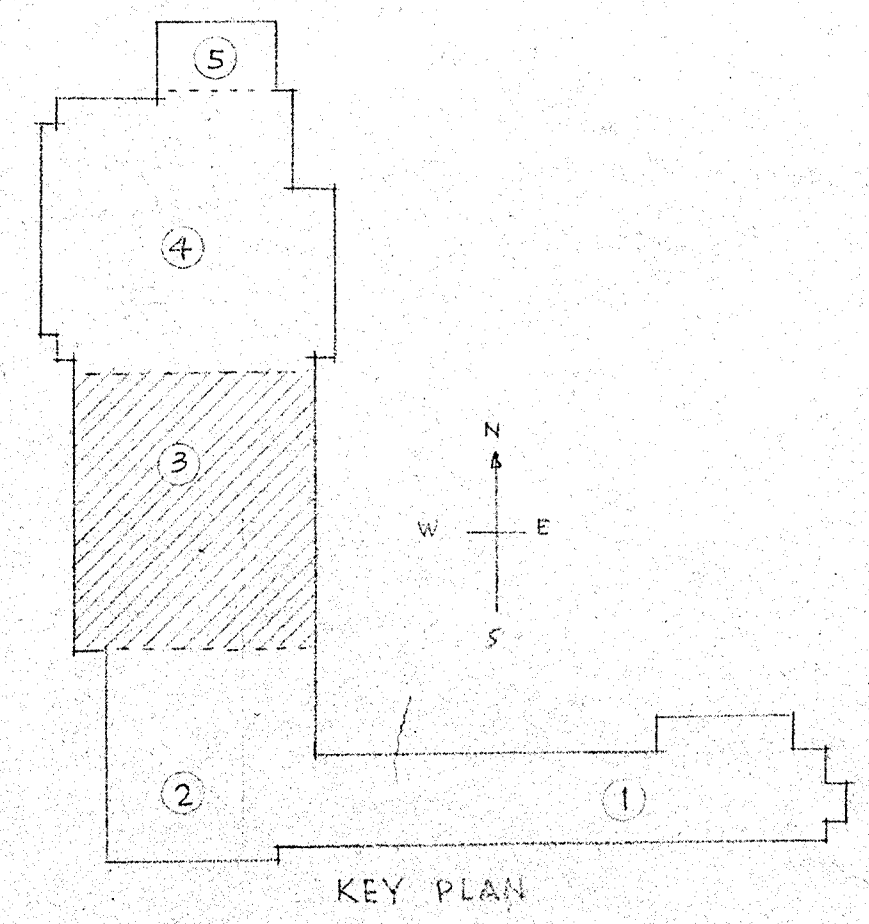
END OF SECTION 00301

ROOM FINISH SCHEDULE

ROOM	FLOOR	CEILING	WALLS	FINISH	REMARKS
STAIR HALL	CEM	SFT CONG.	CB CONG.	E.C.	
TOILET ROOMS	VT	SFT	CB	E.C.	METAL TOILET STALLS
MAKE-UP RM.	CEM	SFT	CB	E.C.	
COSTUME STORAGE	CEM	-	CB	E.C.	
SCENERY STORAGE	CEM	-	CB	E.C.	
CORRIDOR	CEM	-	CB CONG.	E.C.	
MACHINE ROOM	CEM	-	CB CONG.	E.C.	

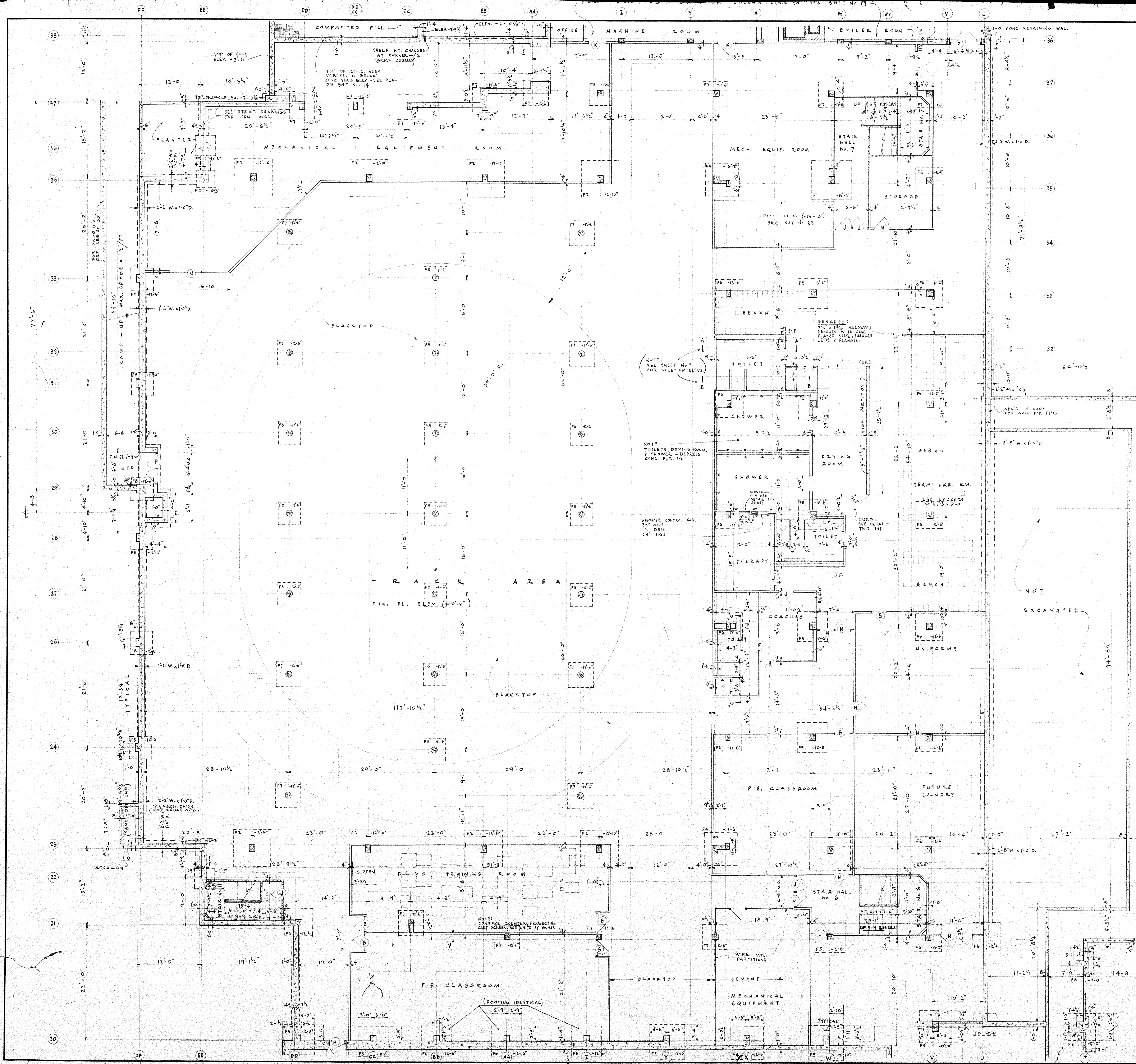


COUNT. DETAIL FOR MAKE-UP ROOM 34" x 16"



SCALE 1/8" = 1'-0"

REVISIONS	BASEMENT PART 3	DATE
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT No. 99 <td>6/15/63 </td>	6/15/63
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 220 N. MICHIGAN AVE. CHICAGO <td>7</td>	7
		COMM.
		1118



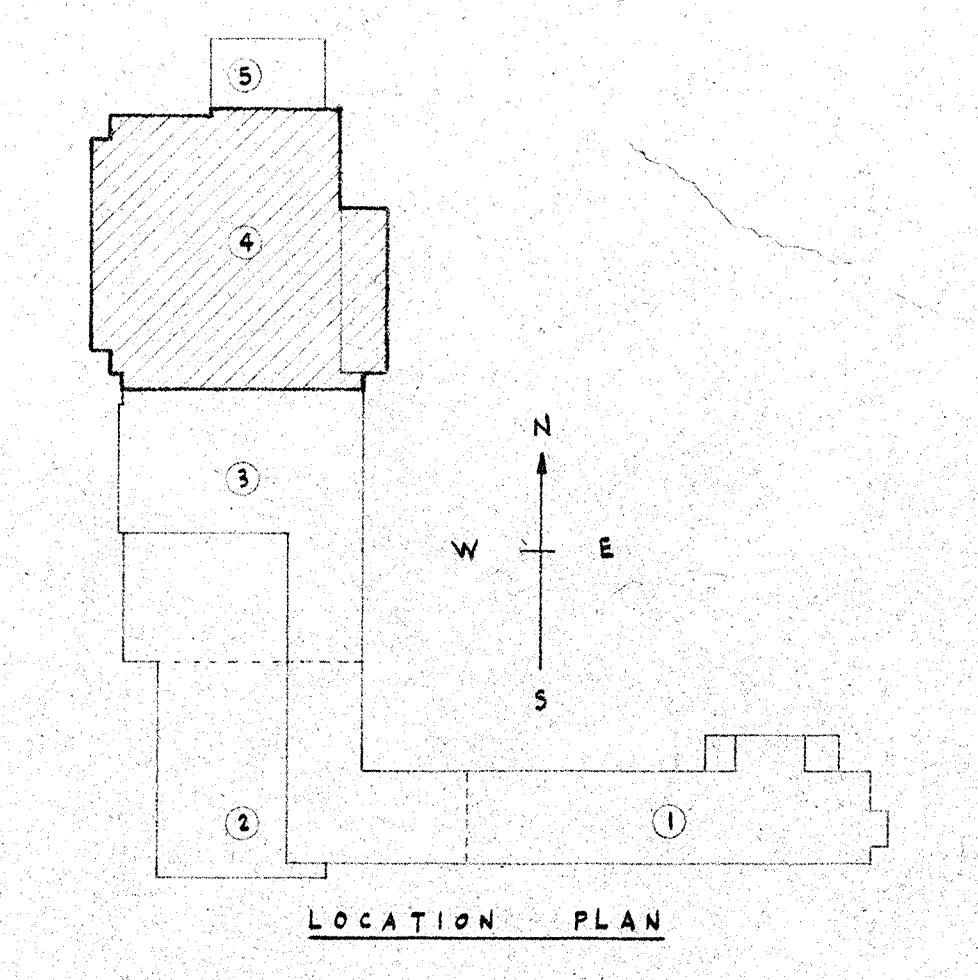
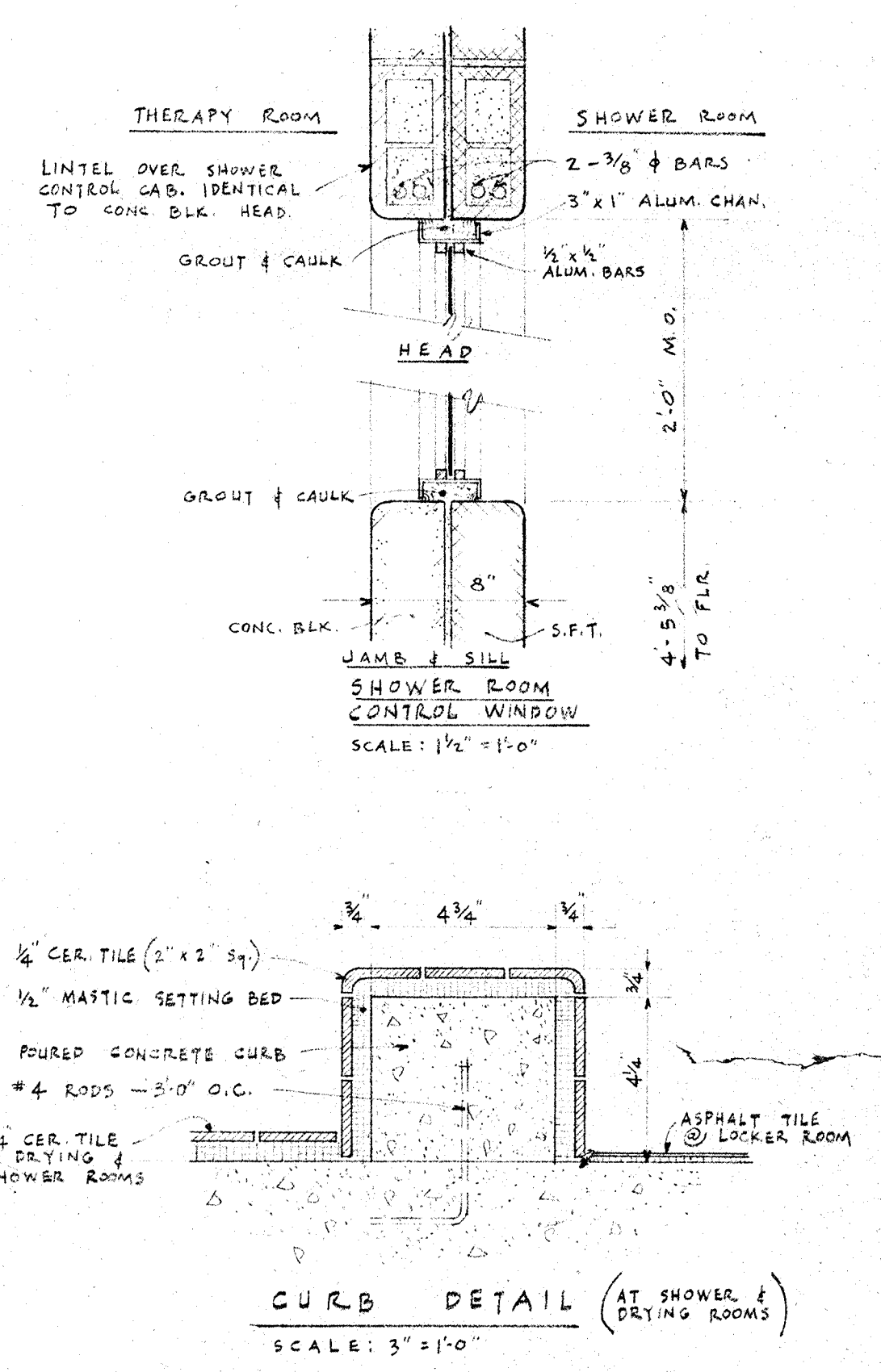
ROOM FINISH SCHEDULE

ROOM	FLOOR	BASE	WALL	CEILING
TRACK AREA	BLACKTOP	S.F.T.	C.B.	MATERIAL HEIGHT EMPLOYED
STAIR HALLS	V.T.	"	S.F.T./C.B.	"
DRIVE TRAINING	A.T.	"	C.B.	"
P.E. CLASSROOMS	A.T.	"	C.B.	"
FUTURE LAUNDRY	CEM.	"	C.B.	"
UNIFORMS	A.T.	"	C.B.	"
TOILETS	C.T.	"	S.F.T.	"
COACHES OFFICE	A.T.	"	C.B.	"
THERAPY	A.T.	"	C.B.	"
SHOWERS	C.T.	"	S.F.T.	"
DRYING ROOM	C.T.	"	S.F.T.	C.T. CURBS
LOCKER ROOM	A.T.	"	S.F.T./C.B.	S.F.T. LOCKER BASES - MU. BEHIND LOCKERS
STORAGE	CEM.	"	C.B.	"
MECH. EQUIP. ROOM	CEM.	"	C.B.	"

NOTE: SEE SHEET No. 7 FOR TOILET RM ELEV.

NOTE: TOILETS, DRYING ROOM, & SHOWER - DEPRESS CONC. FL.

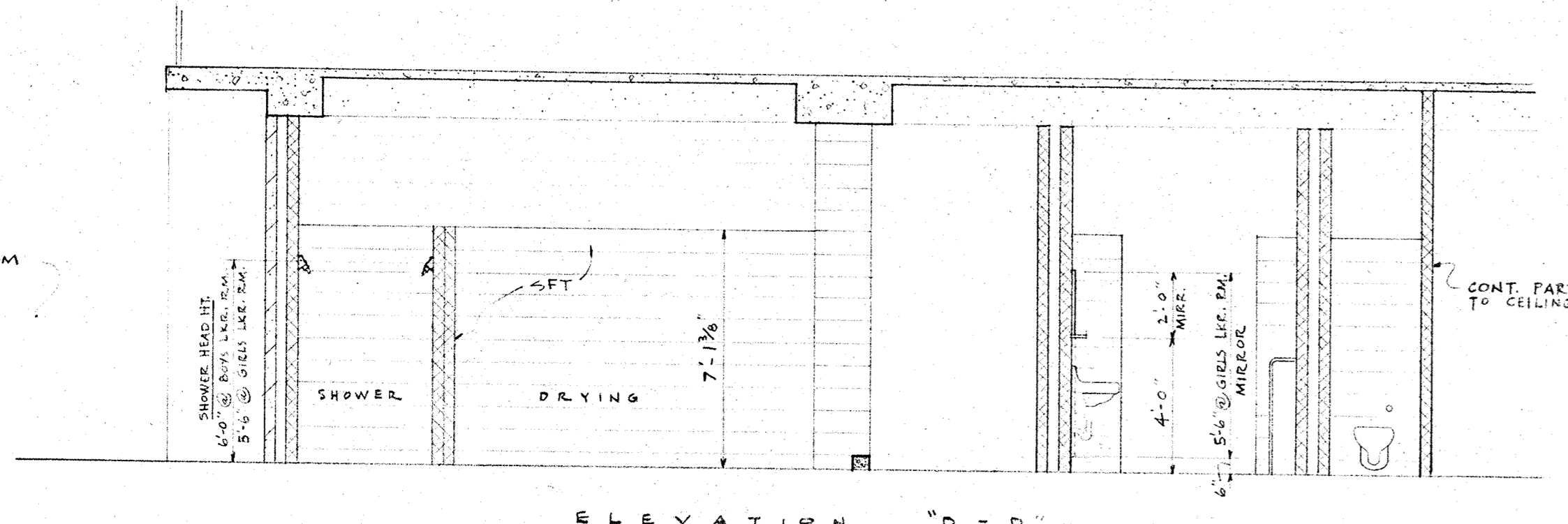
SHOWER CONTROL CAB. 32" WIDE 17" DEEP 24" HIGH



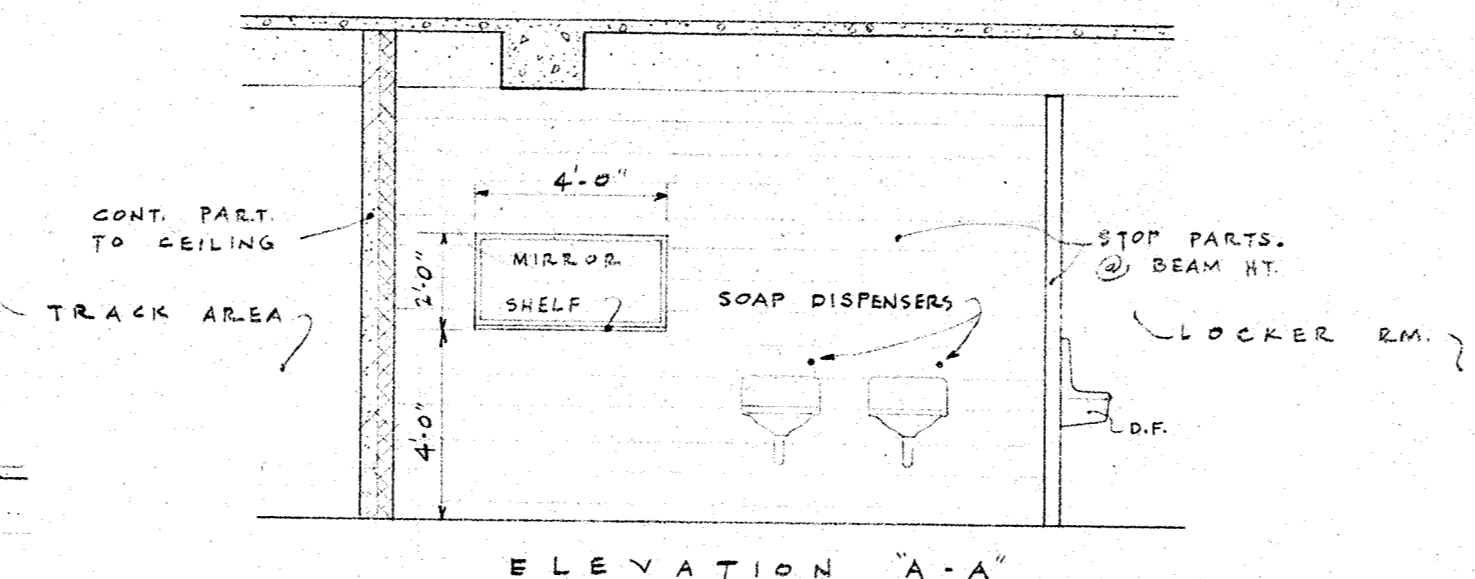
REVISIONS	BASEMENT FLOOR - PART 4	DATE
		6/15/63
		SHEET
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT No. 99	
	FUGARD, BURT, WILKINSON & ORTH ARCHITECTS	
	880 N. MICHIGAN AVE. CHICAGO	
		COMM. 1118

ROOM FINISH SCHEDULE

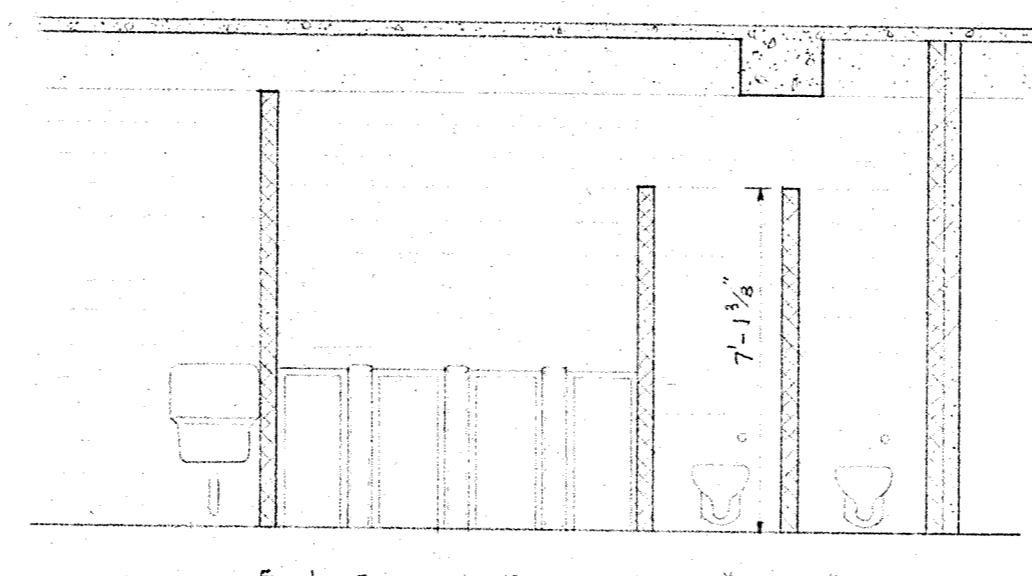
ROOM	FLOOR	BASE	WALL	Ceiling	Material	Height	REMARKS
BOILER ROOM	CEM.	S.F.T.	C.B.	EXPOSED CONCR.			
MACHINE ROOM	CEM.	S.F.T.	C.B.	"			
OFFICE	A.T.	S.F.T.	C.B.	"			
CORRIDOR	A.T.	S.F.T.	C.B.	"			
LUNCH ROOM	A.T.	S.F.T.	C.B.	"			
LOCKER ROOM	A.T.	S.F.T.	C.B.	"			
TOILET	C.T.	S.F.T.	C.B.	"			S.F.T. WALLS IN SHOWER STALL
GAS METER ROOM	CEM.	S.F.T.	C.B.	"			
STAIR No. 9		S.F.T.	C.B.	"			CONCRETE STAIR



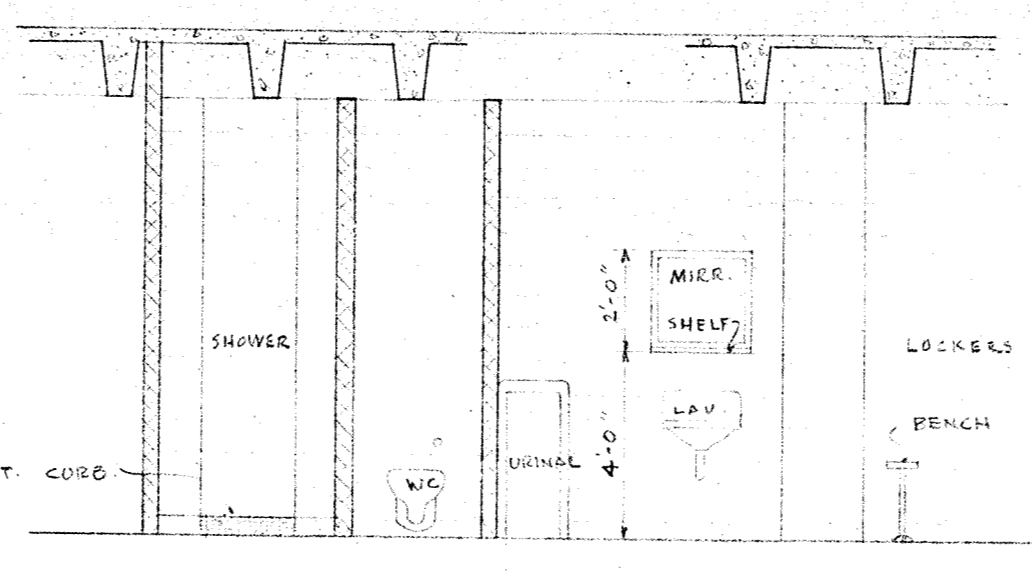
ELEVATION "D-D"



ELEVATION "A-A"



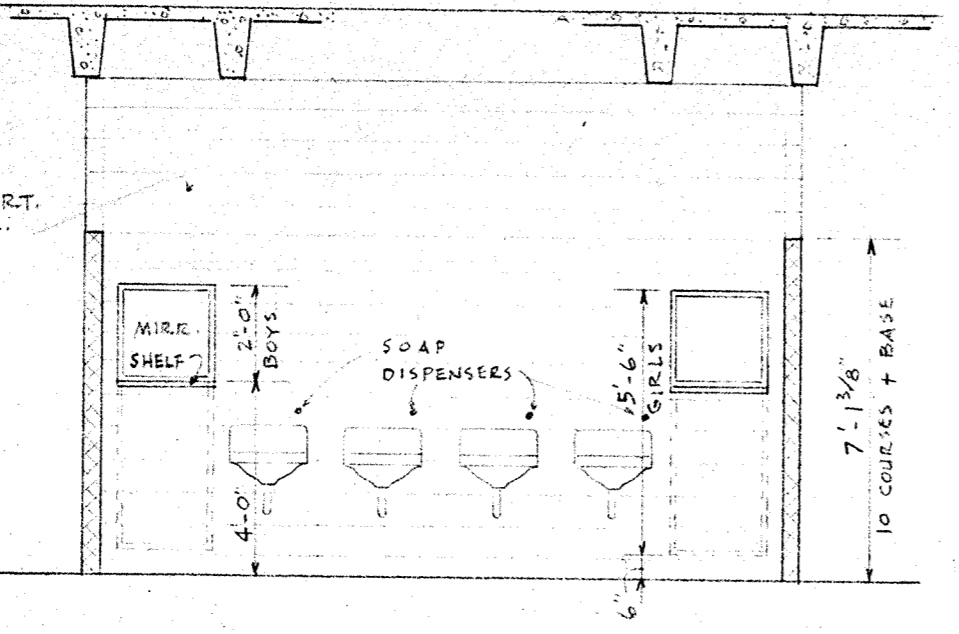
ELEVATION "B-B"



ELEVATION "C-C"

TEAM LOCKER ROOM

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

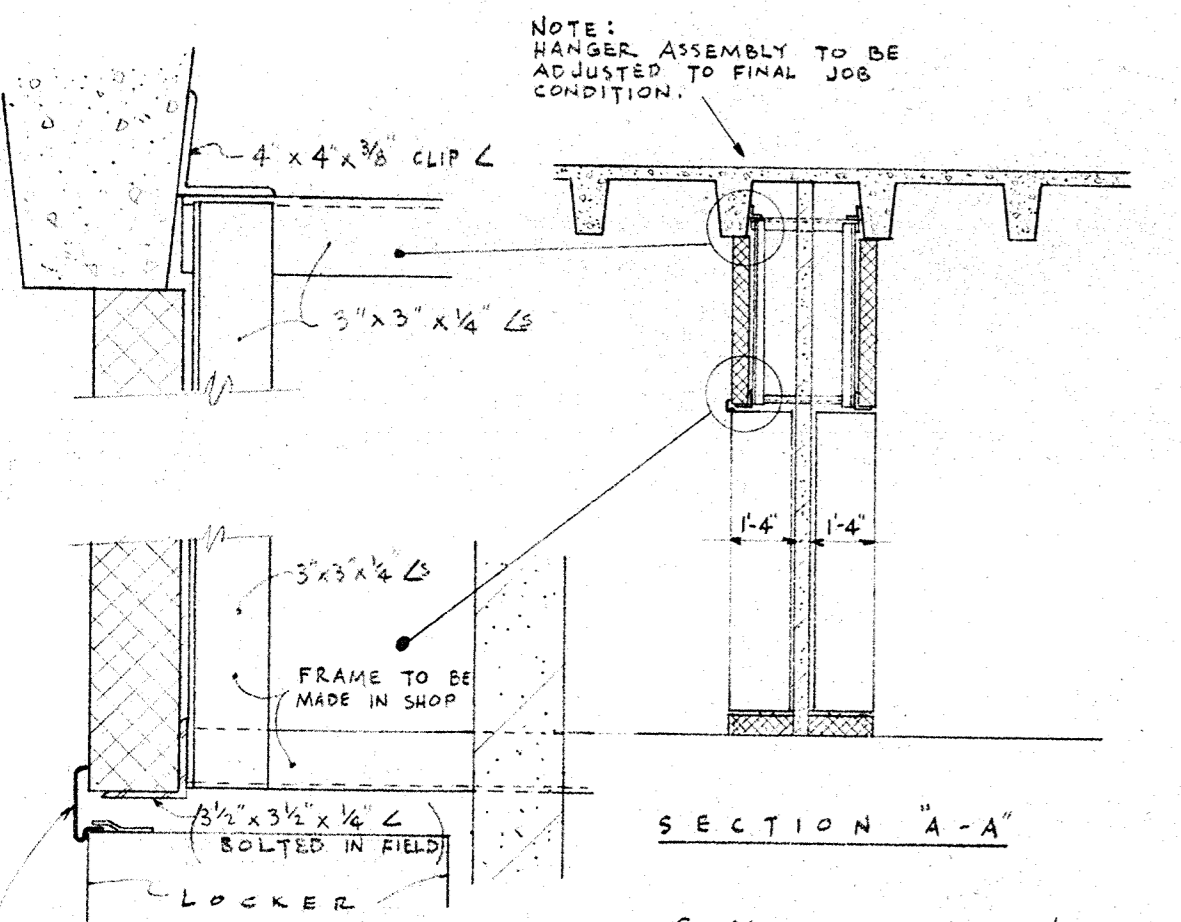


ELEVATION "E-E"

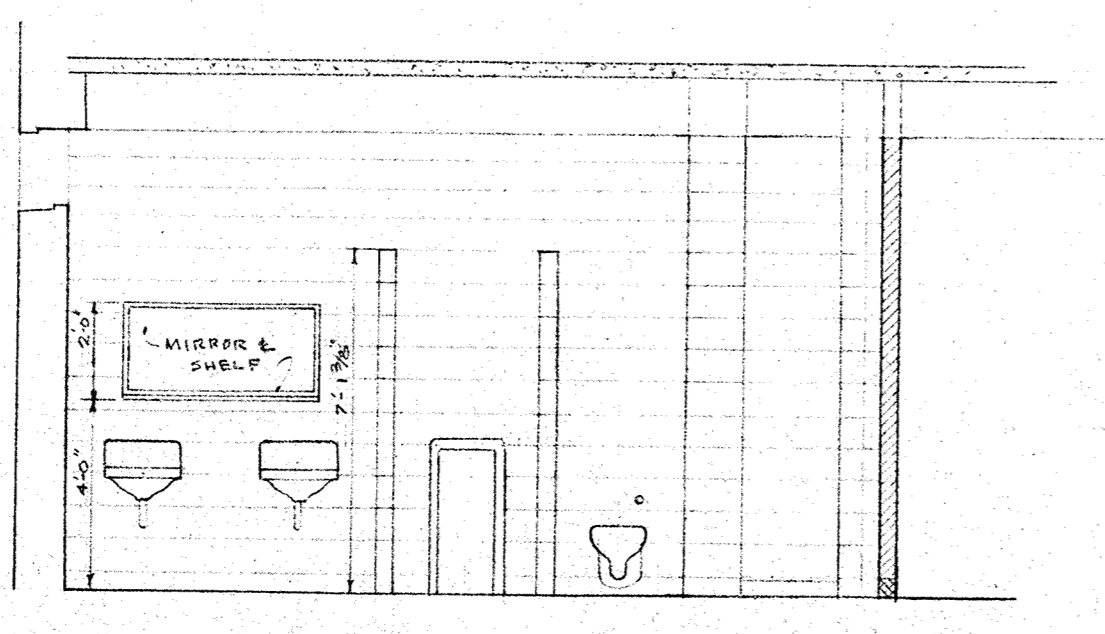
GYM LOCKER ROOM

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

DETAILS - 1/4" = 1'-0"

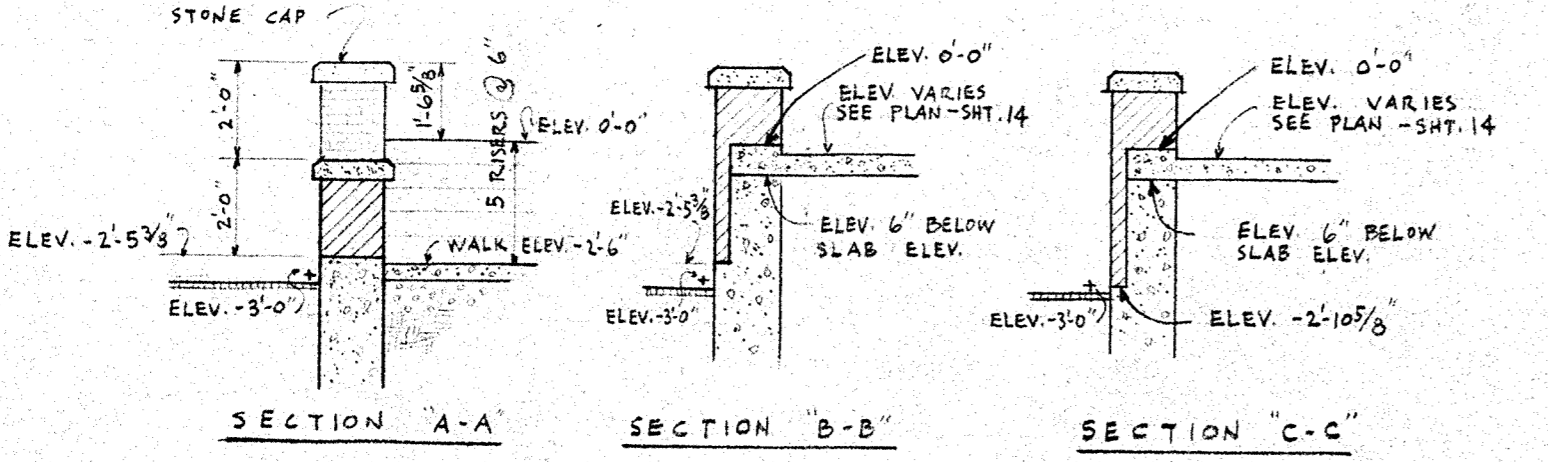


SECTION "A-A"



ELEVATION OF BOILER ROOM TOILET EAST WALL

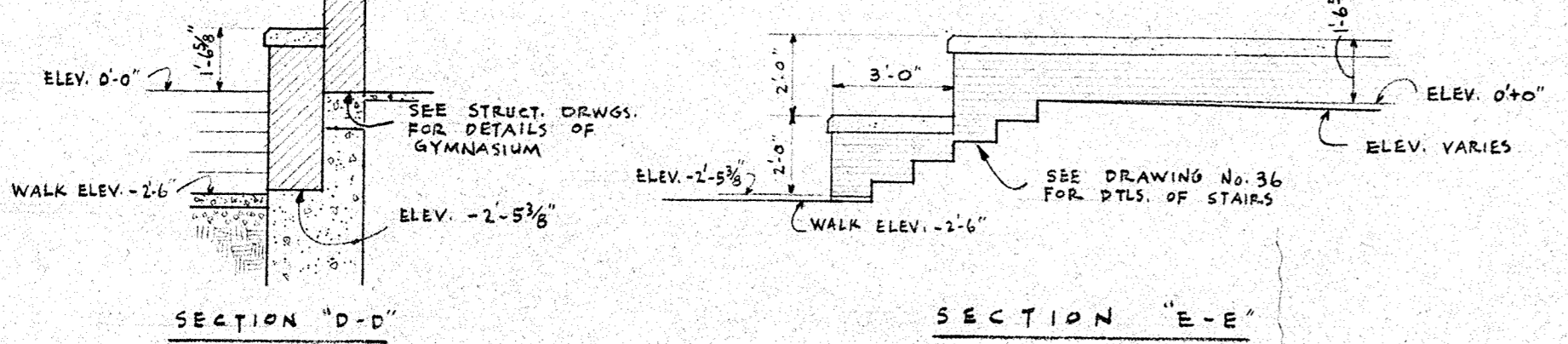
SCALE: 1/4" = 1'-0"



SECTION "A-A"

SECTION "B-B"

SECTION "C-C"

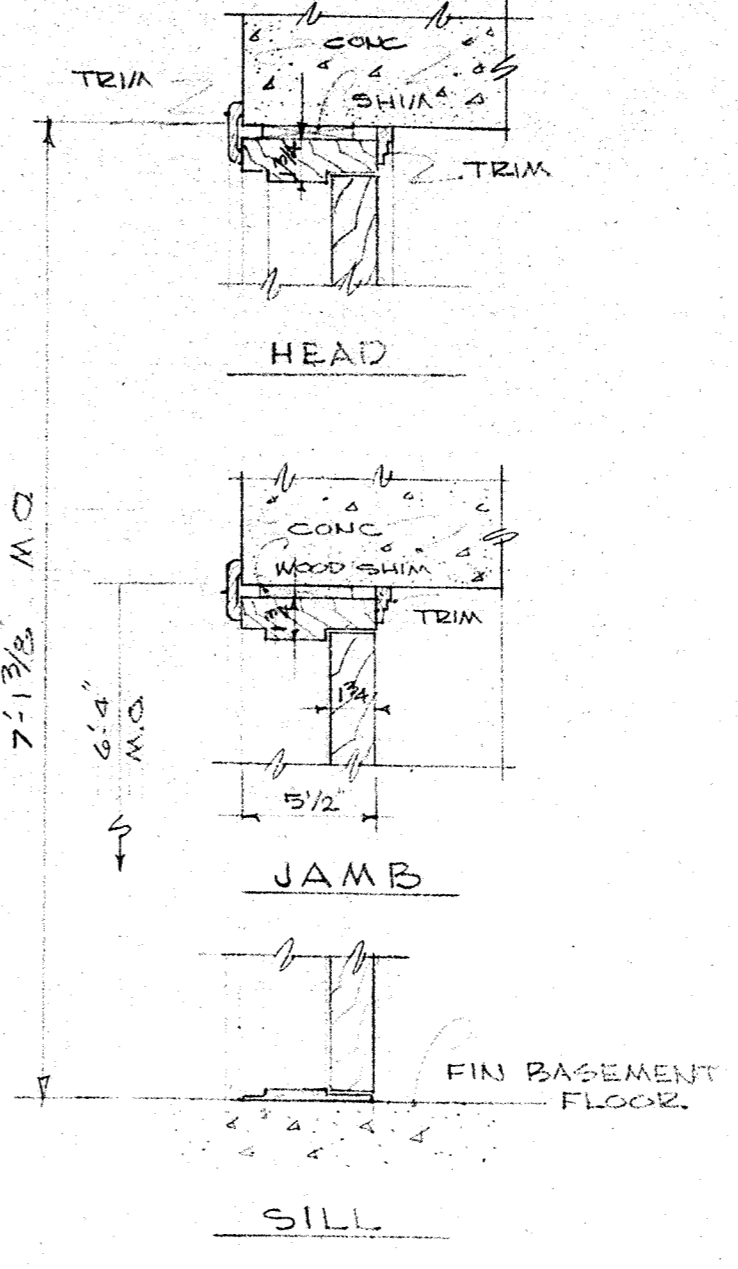


SECTION "D-D"

SECTION "E-E"

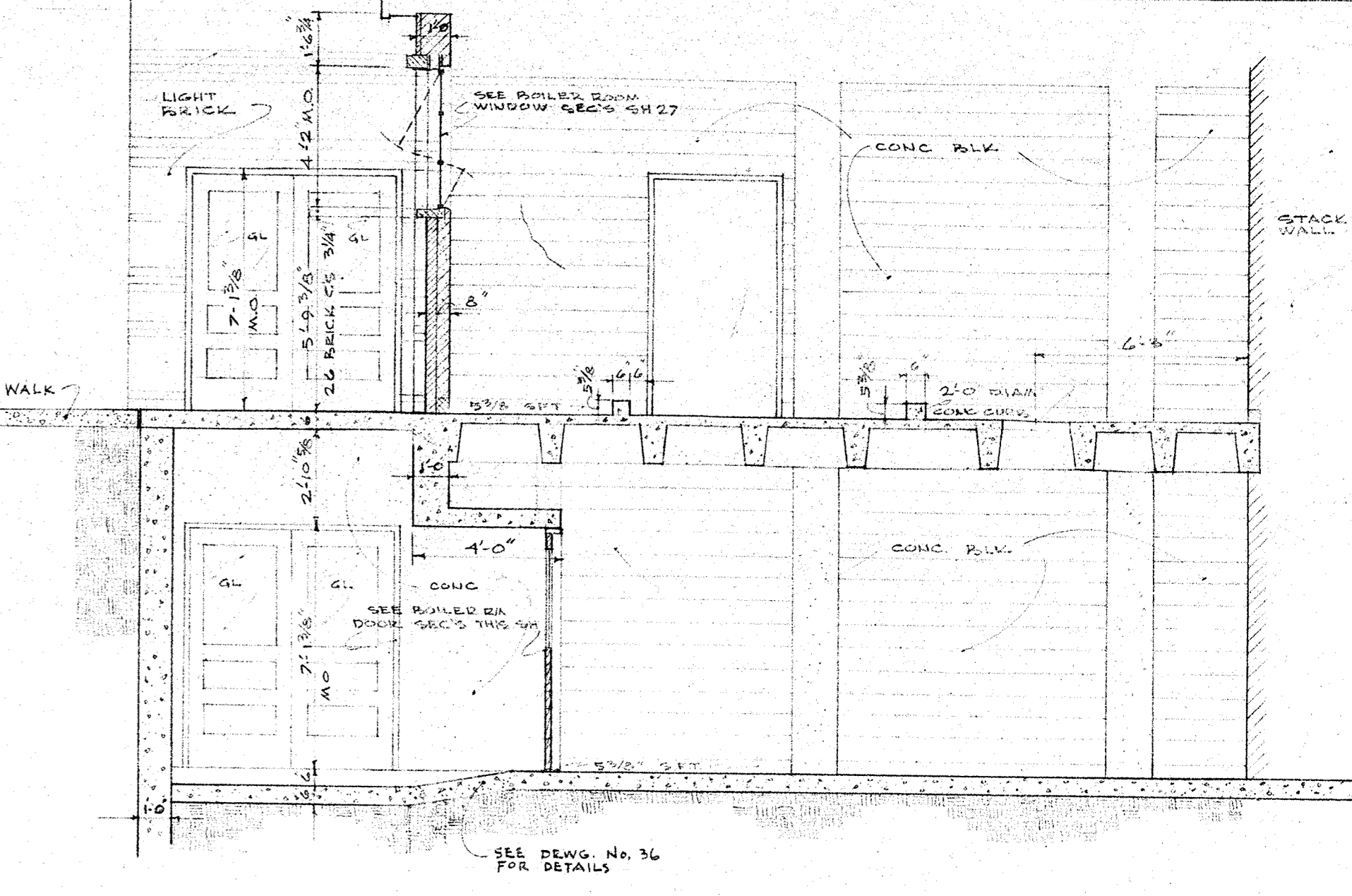
DETAILS AT NORTH ENTRANCE PORCH

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



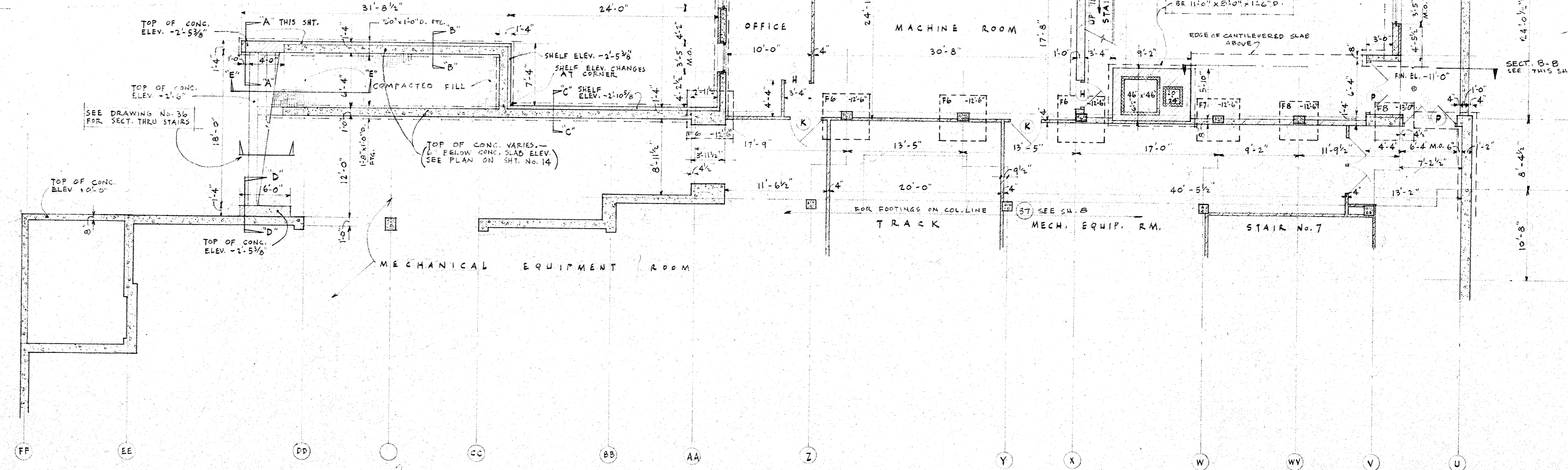
BOILER ROOM DOOR SECTIONS

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

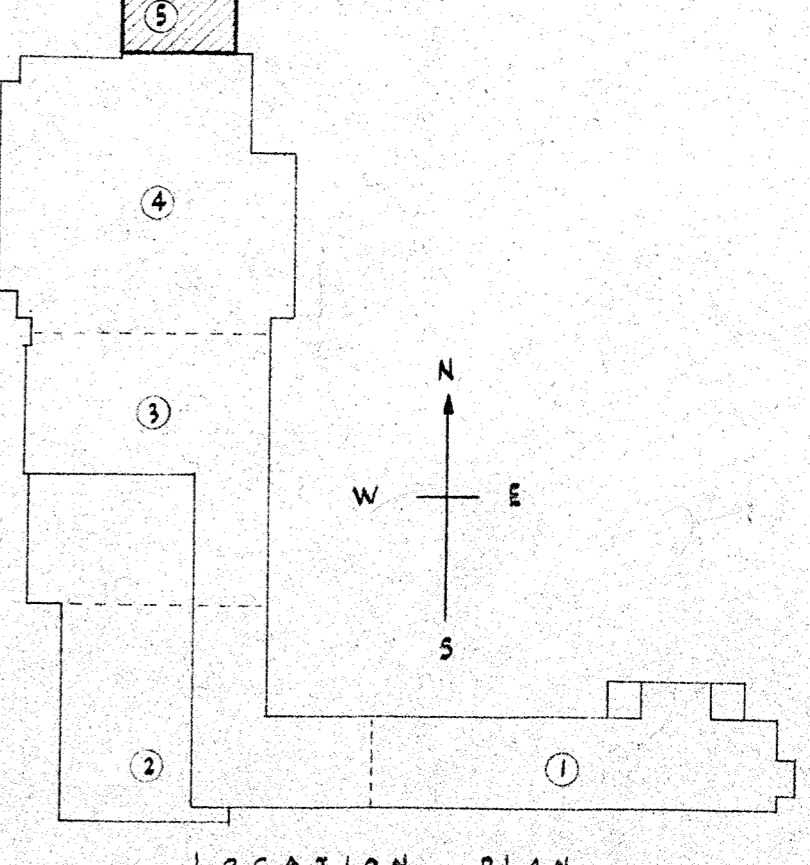


GARBAGE ROOM SECTION B-B

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



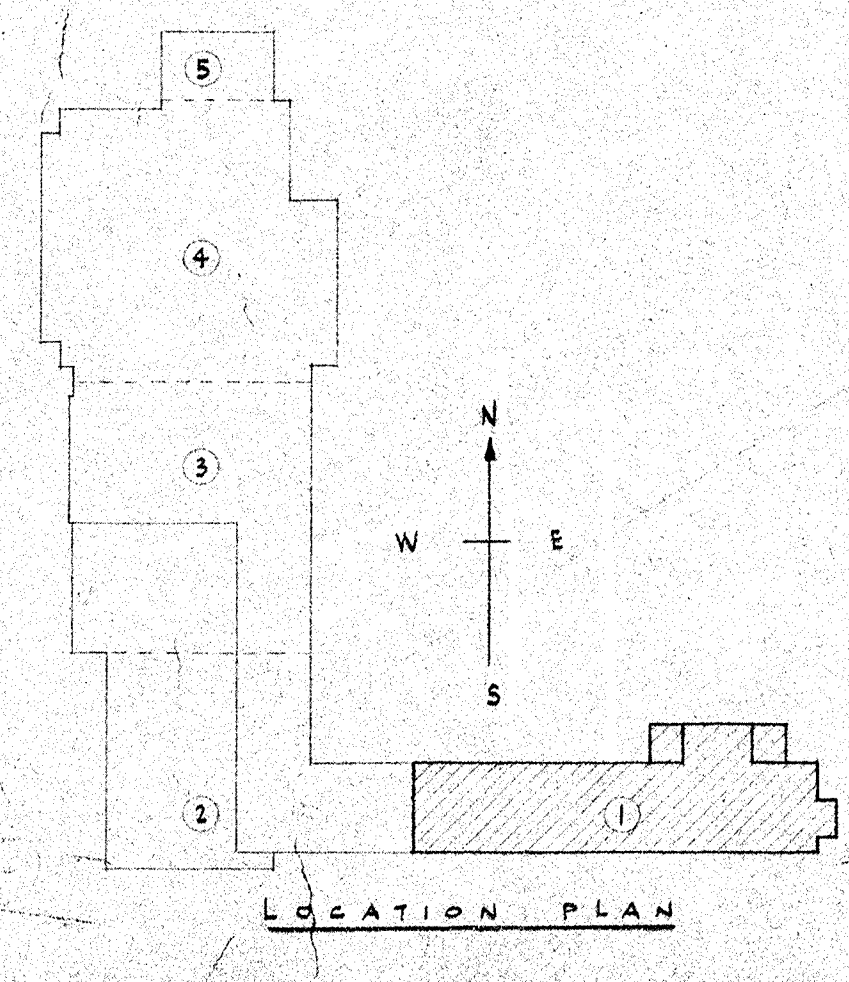
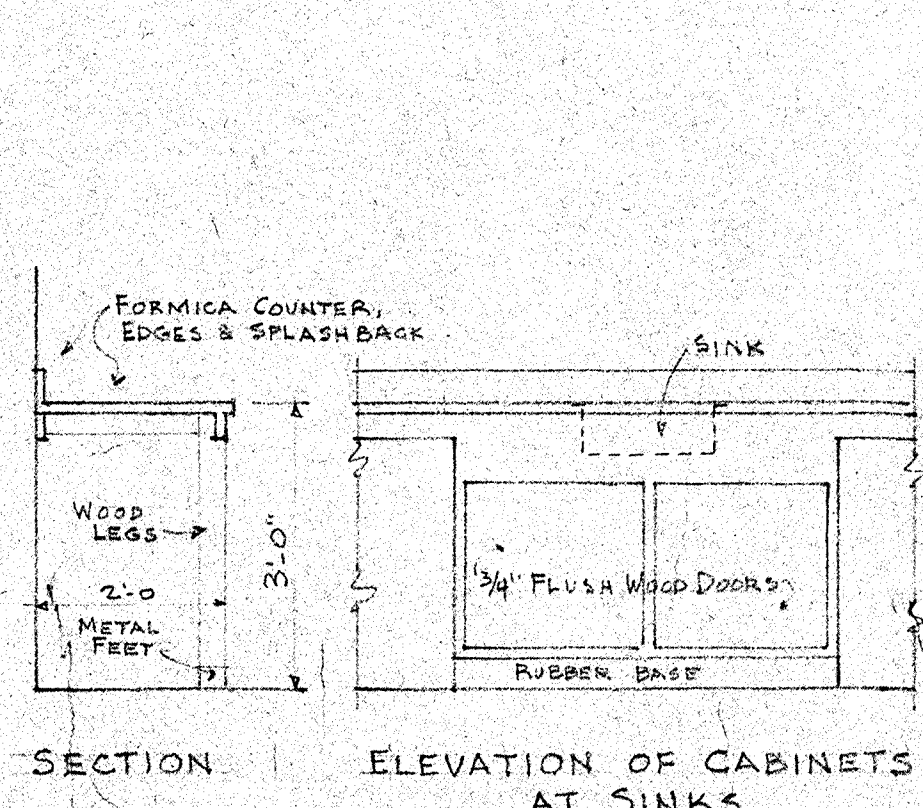
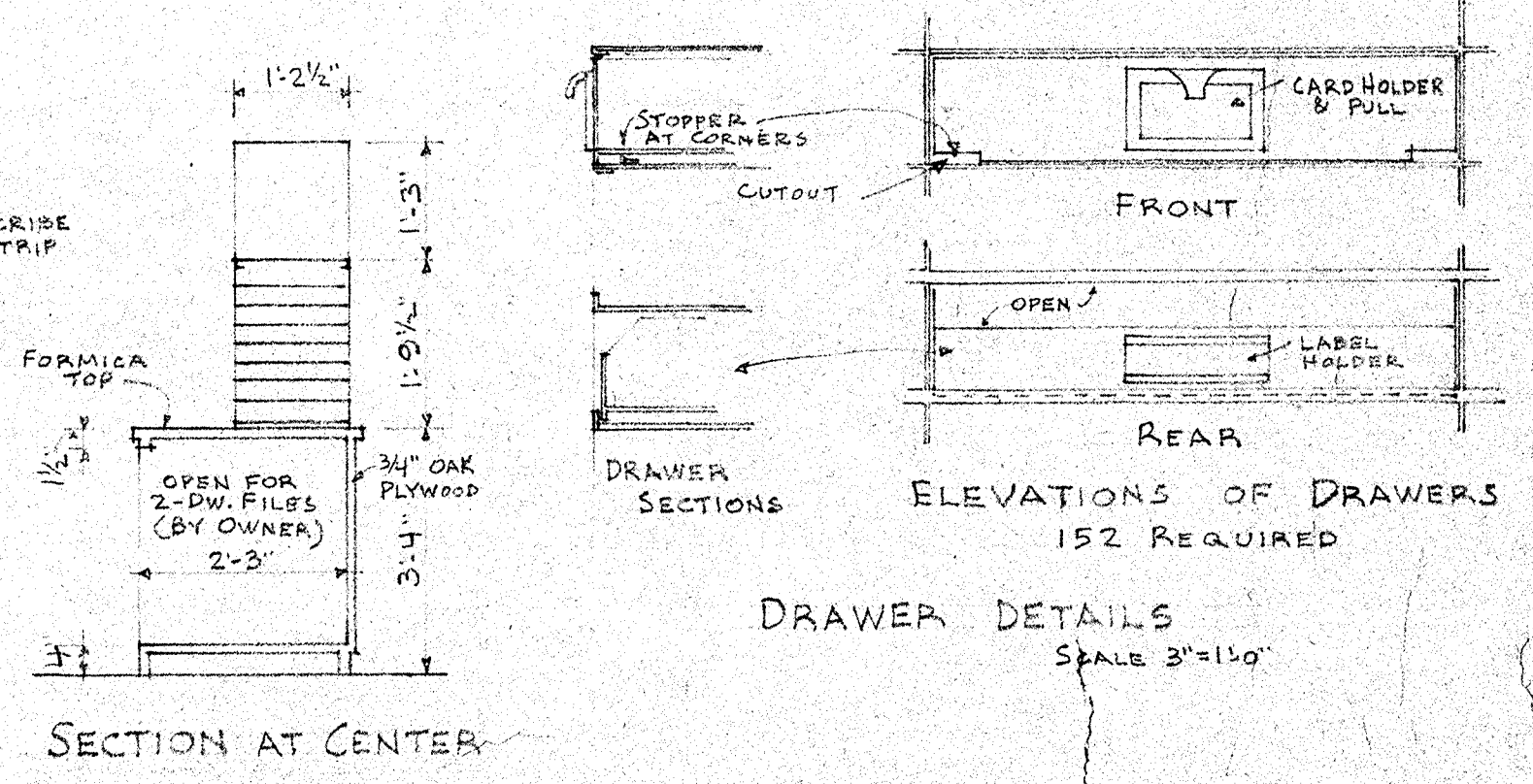
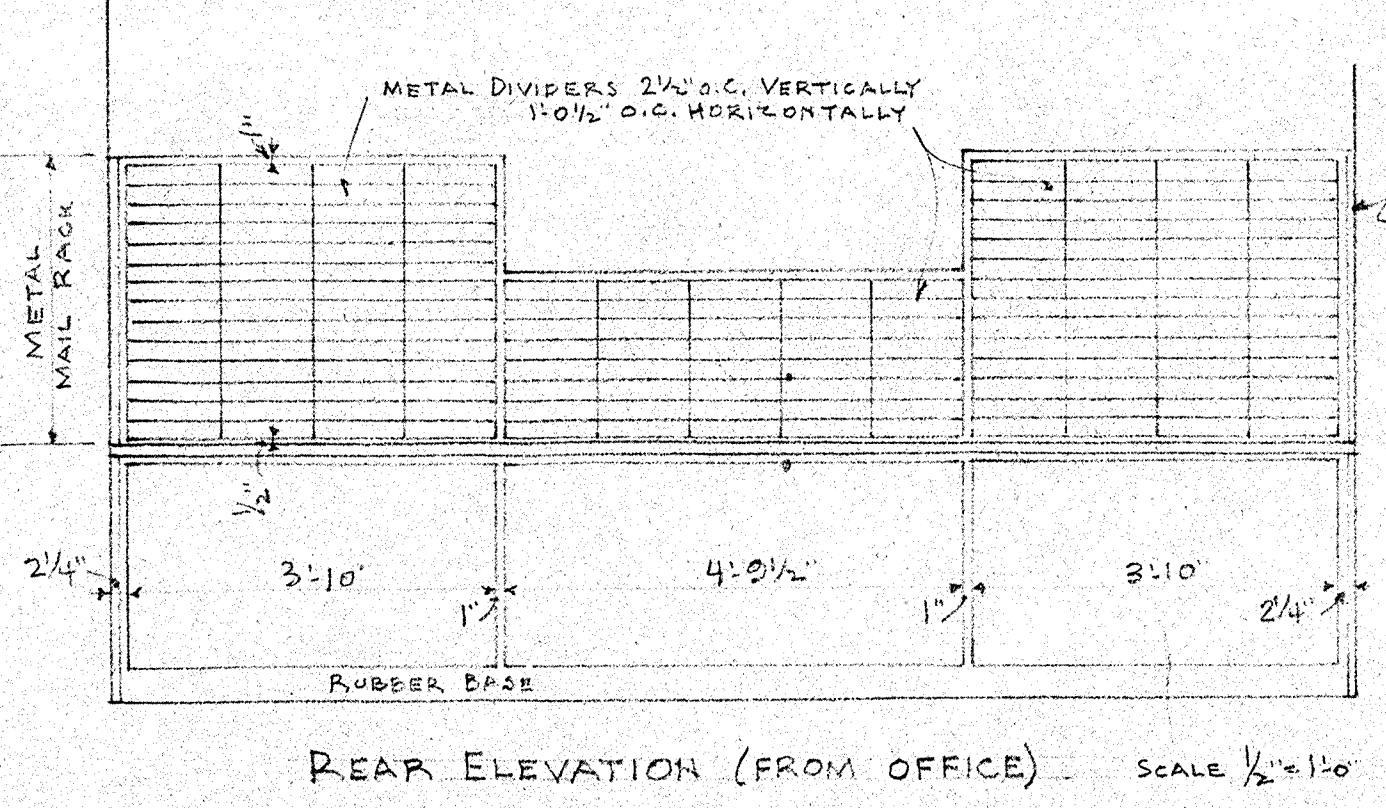
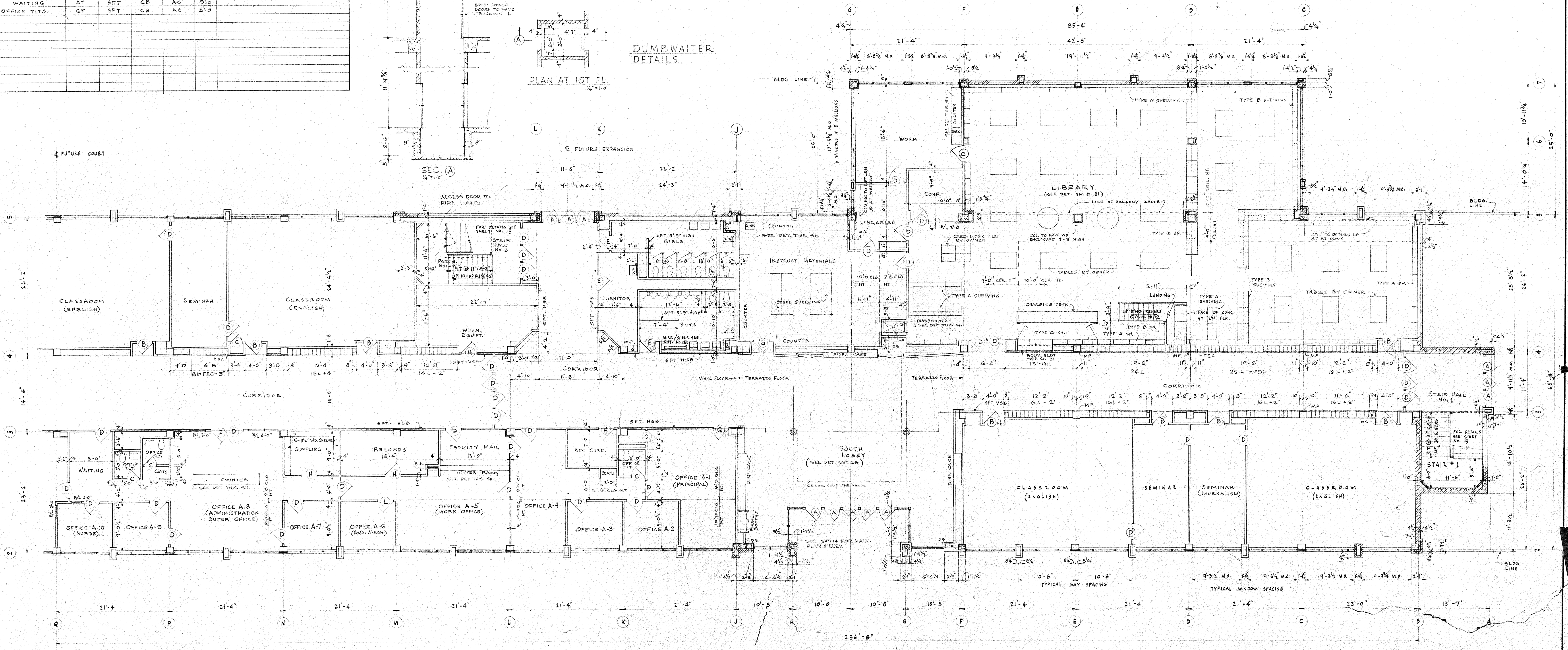
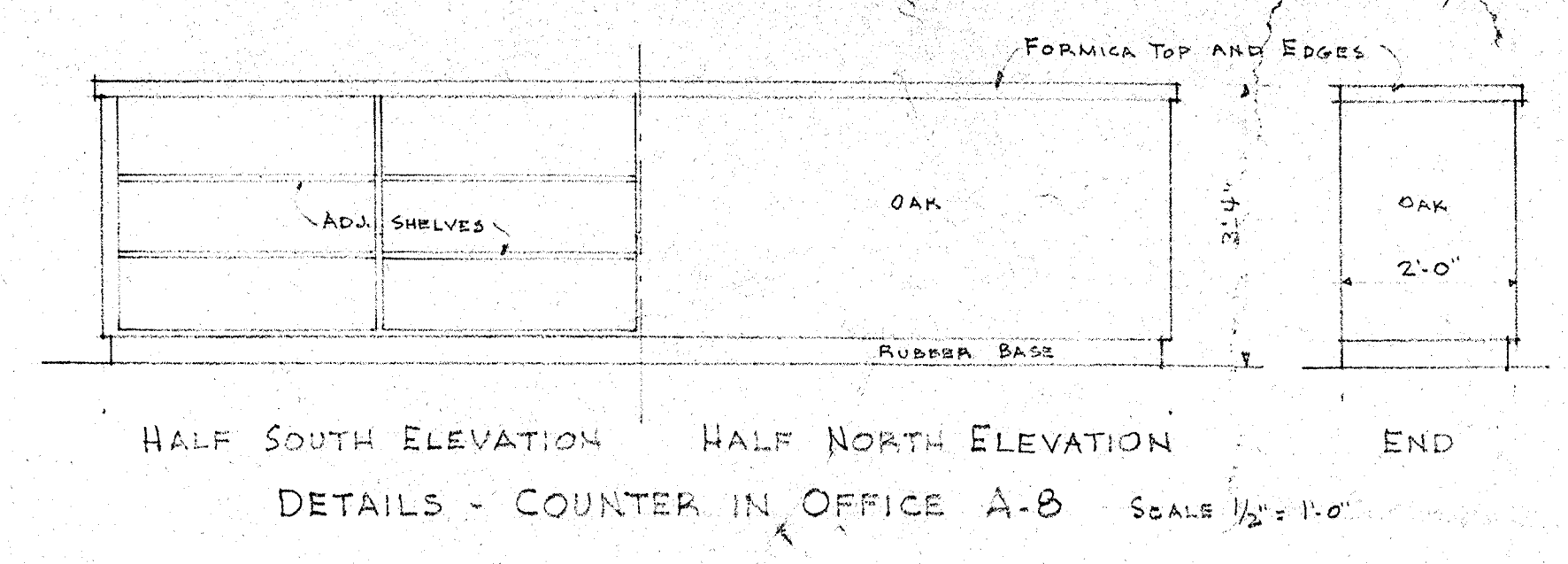
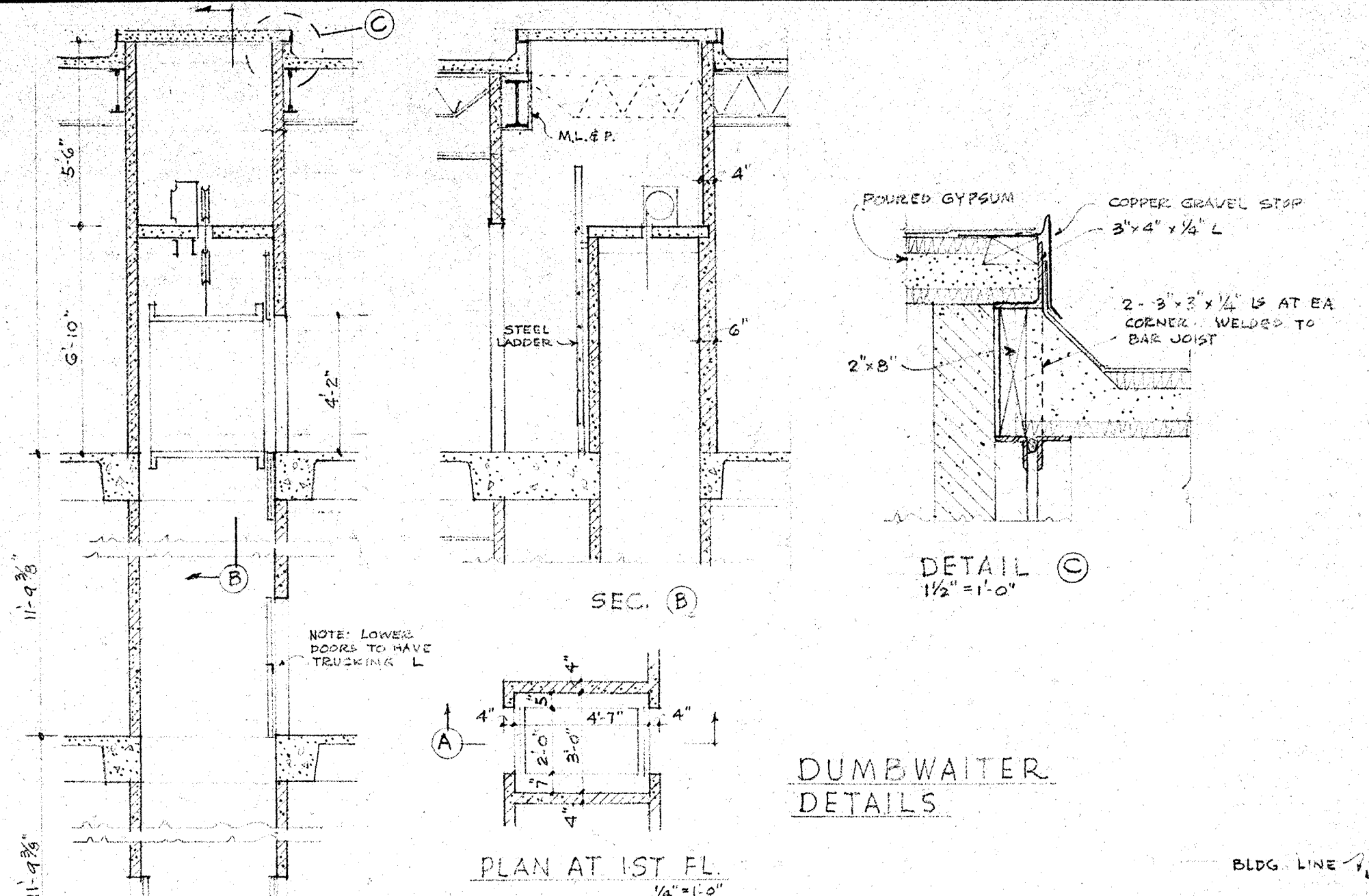
MECHANICAL EQUIPMENT ROOM



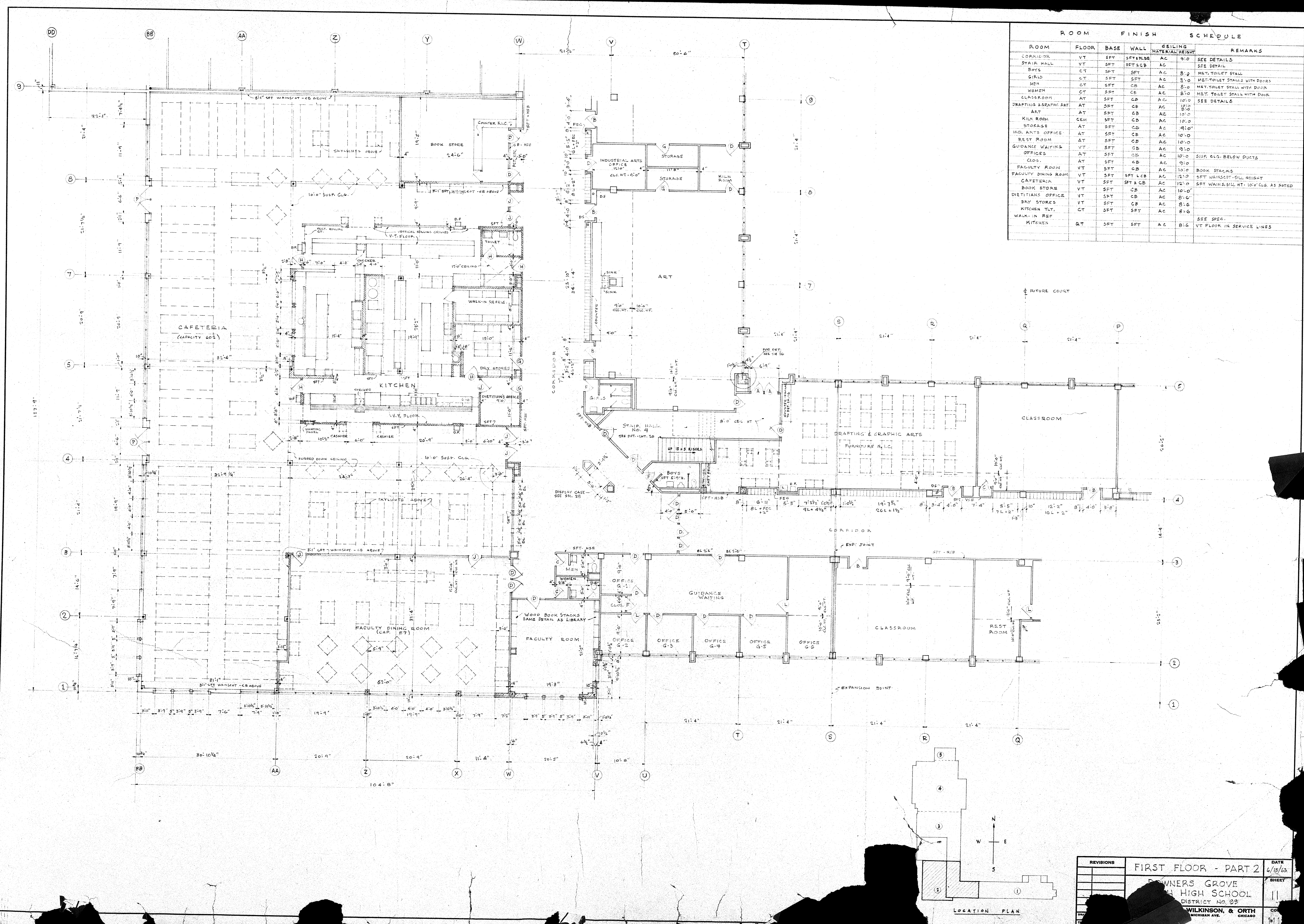
LOCATION PLAN

REVISIONS	BASEMENT - PART 5	DATE
	DOWNERS GROVE	6/15/46
	SOUTH HIGH SCHOOL	9
	SCHOOL DISTRICT No. 99	
	FUGARD, BURT, WILKINSON, & ORTH	COM
	ARCHITECTS	118
	820 N. MICHIGAN AVE. CHICAGO	

ROOM		FINISH		SCHEDULE		REMARKS
FLOOR	BASE	WALL	Ceiling	MATERIAL	HEIGHT	
CORRIDOR	VT	SFT	SFT	AC	9'-0"	
SOUTH LOBBY	VT	SFT	MT&ND	AC	9'-0"	
STAIR HALLS	VT	SFT	SFT	CB	AC	SEE DETAILS
BOYS	CT	SFT	SFT	AC	8'-0"	MET. STALLS
GIRLS	CT	SFT	SFT	AC	8'-0"	MET. STALLS WITH DOORS
JANITOR	CEM	SFT	CB	NONE		
MECH. EQUIPT.	CEM	SFT	CB	NONE		
AIR COND.	CEM	SFT	CB	NONE		
LIBRARY	VT	SFT	WD ACB	AC		SEE DETAILS ON SH 31
CONF.	AT	SFT	CB	AC	10'-0"	
LIBRARIAN	AT	SFT	CB	AC	9'-0"	
WORK	AT	SFT	CB	AC	10'-0"	
INSTRUCT. MATERIALS	AT	SFT	CB	AC	10'-0"	
CLASSROOMS	AT	SFT	CB	AC	10'-0"	SEE DETAILS ON SH 30
SEMINARS	AT	SFT	CB	AC	10'-0"	
OFFICES	AT	SFT	CB	AC	9'-0"	AC ON EAST & WEST WALLS - OFFICE A-G
FACULTY MAIL	AT	SFT	CB	AC	9'-0"	
RECORDS	AT	SFT	CB	AC	9'-0"	
SUPPLIES	AT	SFT	CB	AC	9'-0"	WOOD SHELVES
WAITING	AT	SFT	CB	AC	9'-0"	
OFFICE TLDO.	CT	SFT	CB	AC	9'-0"	



REVISIONS	FIRST FLOOR - PART 1	DATE
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT NO. 99	6/15/63
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 820 N. MICHIGAN AVE. CHICAGO	10
		1118



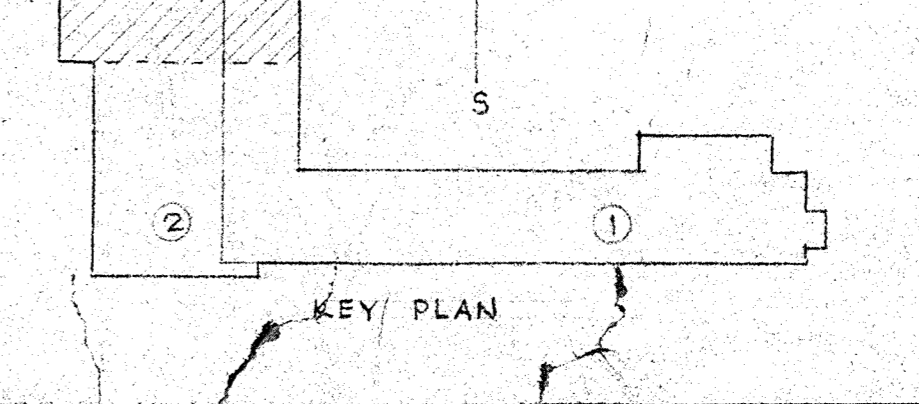
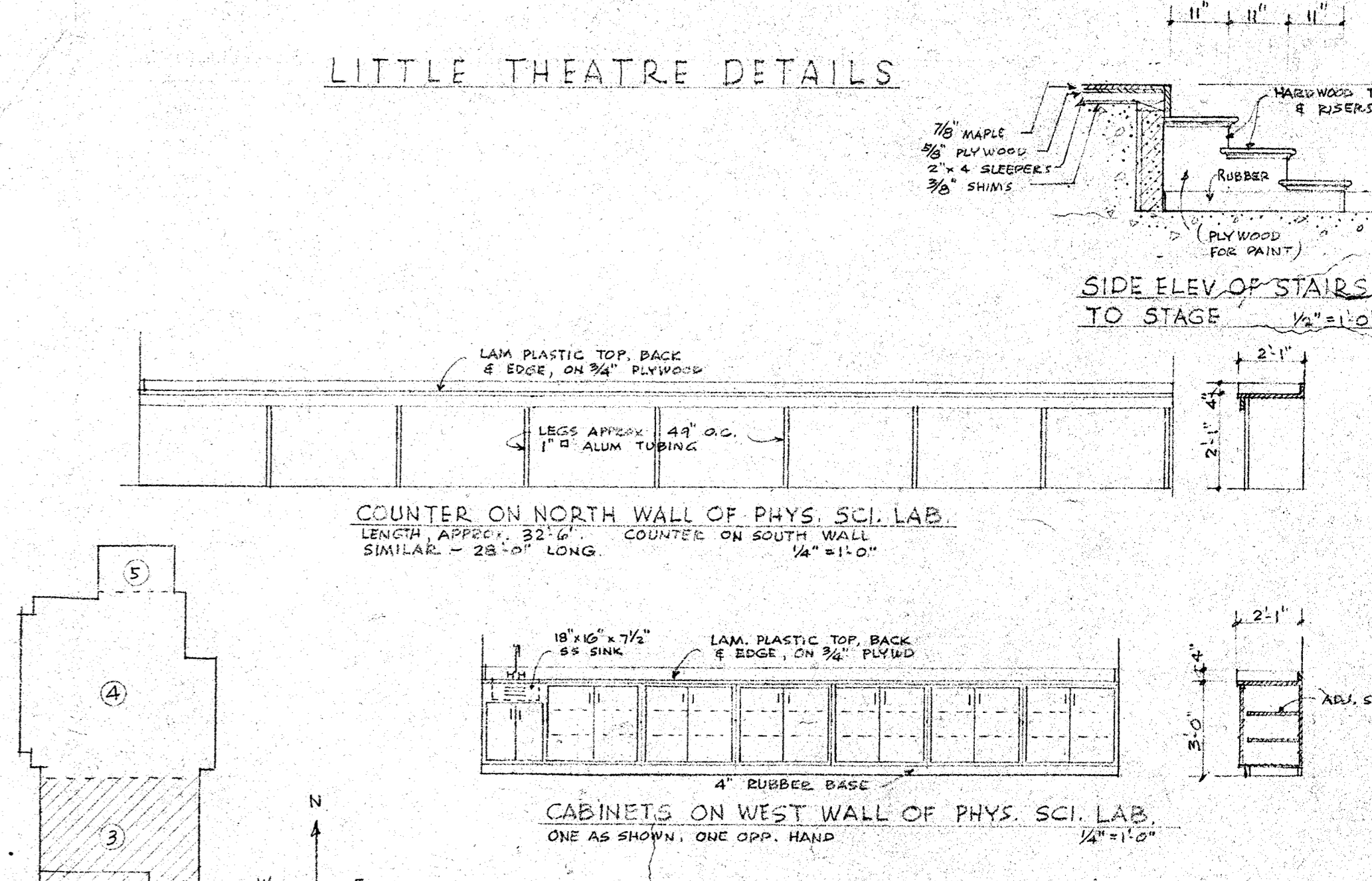
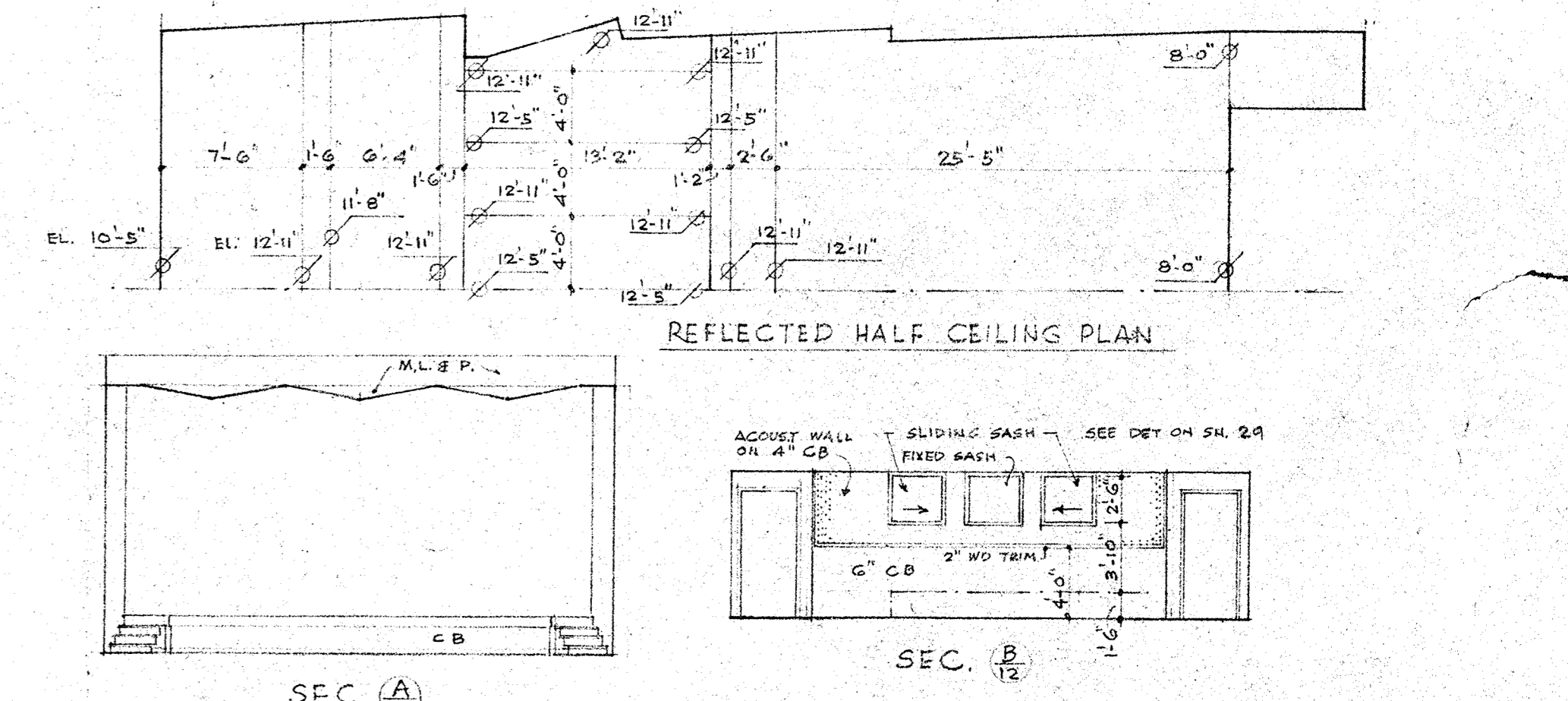
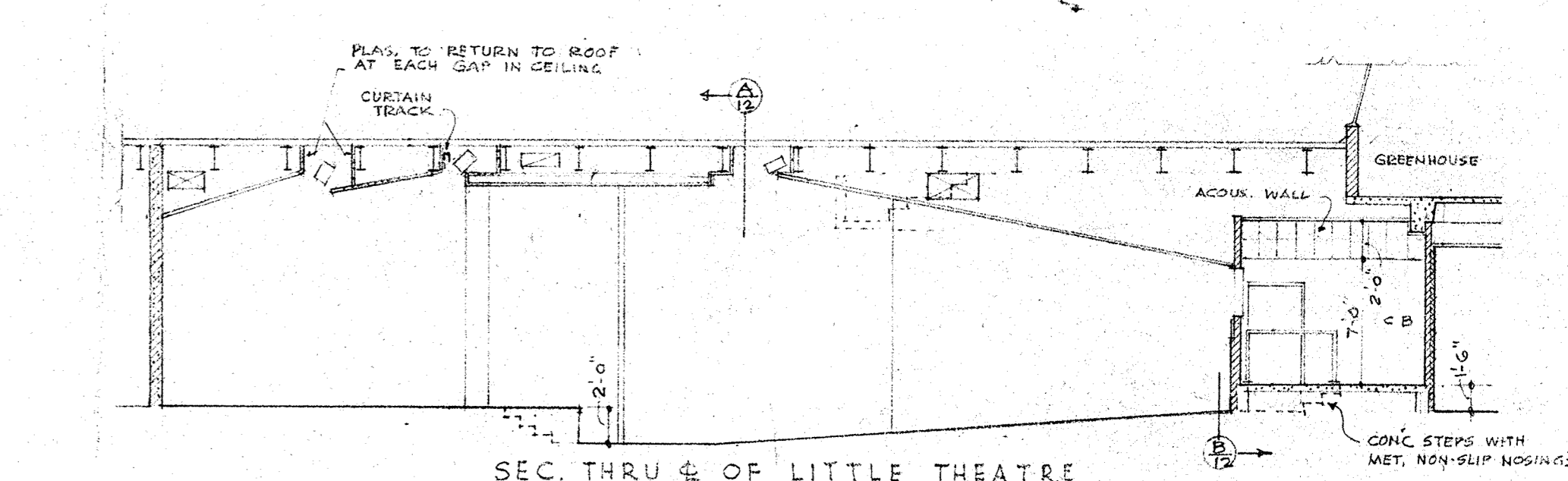
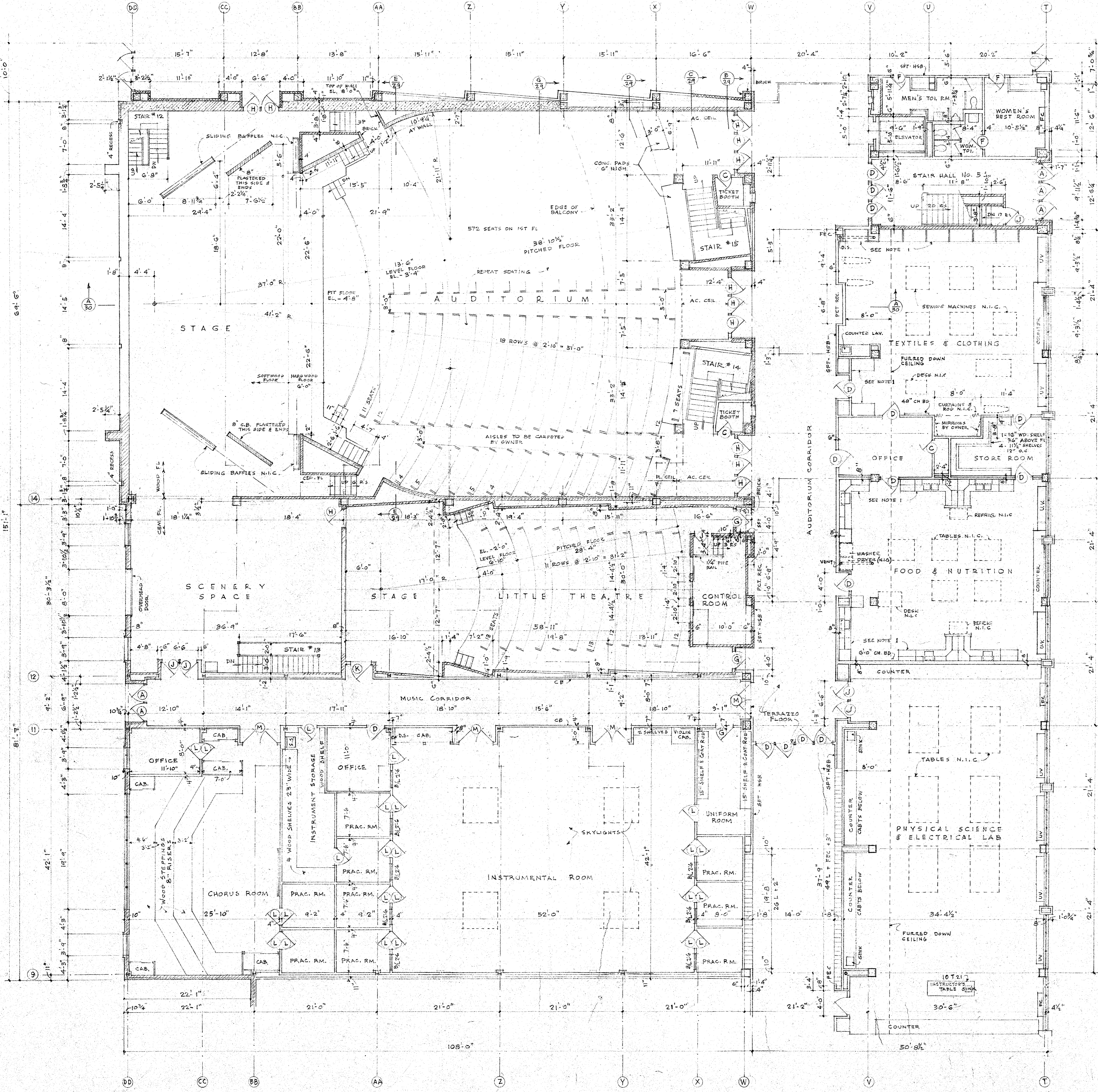
ROOM		FINISH		SCHEDULE		REMARKS
FLOOR	BASE	WALL	CEILING	MATERIAL	HEIGHT	
CORRIDOR	VT	SFT	SFT/BR	AC	9'-0"	SEE DETAILS
STAIR HALL	VT	SFT	SET/CS	AC		SEE DETAIL
BOYS	CT	SFT	SFT	AC	8'-0"	MET. TOILET STALL
GIRLS	CT	SFT	SFT	AC	8'-0"	MET. TOILET STALL WITH DOOR
MEN	CT	SFT	CB	AC	8'-0"	MET. TOILET STALL WITH DOOR
WOMEN	CT	SFT	CB	AC	8'-0"	MET. TOILET STALL WITH DOOR
CLASSROOM	AT	SFT	CB	AC	10'-0"	SEE DETAILS
DRAFTING & GRAPHIC ART	AT	SFT	CB	AC	10'-0"	
ART	AT	SFT	CB	AC	10'-0"	
KILN ROOM	CEM	SFT	CB	AC	10'-0"	
STORAGE	AT	SFT	CB	AC	10'-0"	
IND. ARTS OFFICE	AT	SFT	CB	AC	10'-0"	
REST ROOM	AT	SFT	CB	AC	10'-0"	
GUIDANCE WAITING	VT	SFT	CB	AC	9'-0"	
OFFICES	AT	SFT	CB	AC	10'-0"	SUSP. CAS. BELOW DUCTS
CLOS.	AT	SFT	CB	AC	9'-0"	
FACULTY ROOM	VT	SFT	CB	AC	10'-0"	BOOK STACKS
FACULTY DINING ROOM	VT	SFT	SFT & CB	AC	12'-0"	SFT WAINSCOT - SILL HEIGHT
CAFETERIA	VT	SFT	SFT & CB	AC	12'-0"	SFT WAINSCOT - SILL HT. 10'-0" CLG. AS NOTED
BOOK STORE	VT	SFT	CB	AC	10'-0"	
DIETITIAN'S OFFICE	VT	SFT	CB	AC	8'-6"	
DRY STORES	VT	SFT	CB	AC	8'-6"	
KITCHEN TLT.	CT	SFT	SFT	AC	8'-6"	
WALK-IN REF.	AT	SFT	SFT	AC	8'-6"	SEE SPEC.
KITCHEN	AT	SFT	SFT	AC	8'-6"	VT FLOOR IN SERVICE LINES

REVISIONS	FIRST FLOOR - PART 2	DATE
	OWNER'S GROVE	6/18/63
	HIGH SCHOOL	
	DISTRICT NO. 23	
	WILKINSON, & ORTH	
	MICHIGAN AVE. CHICAGO	

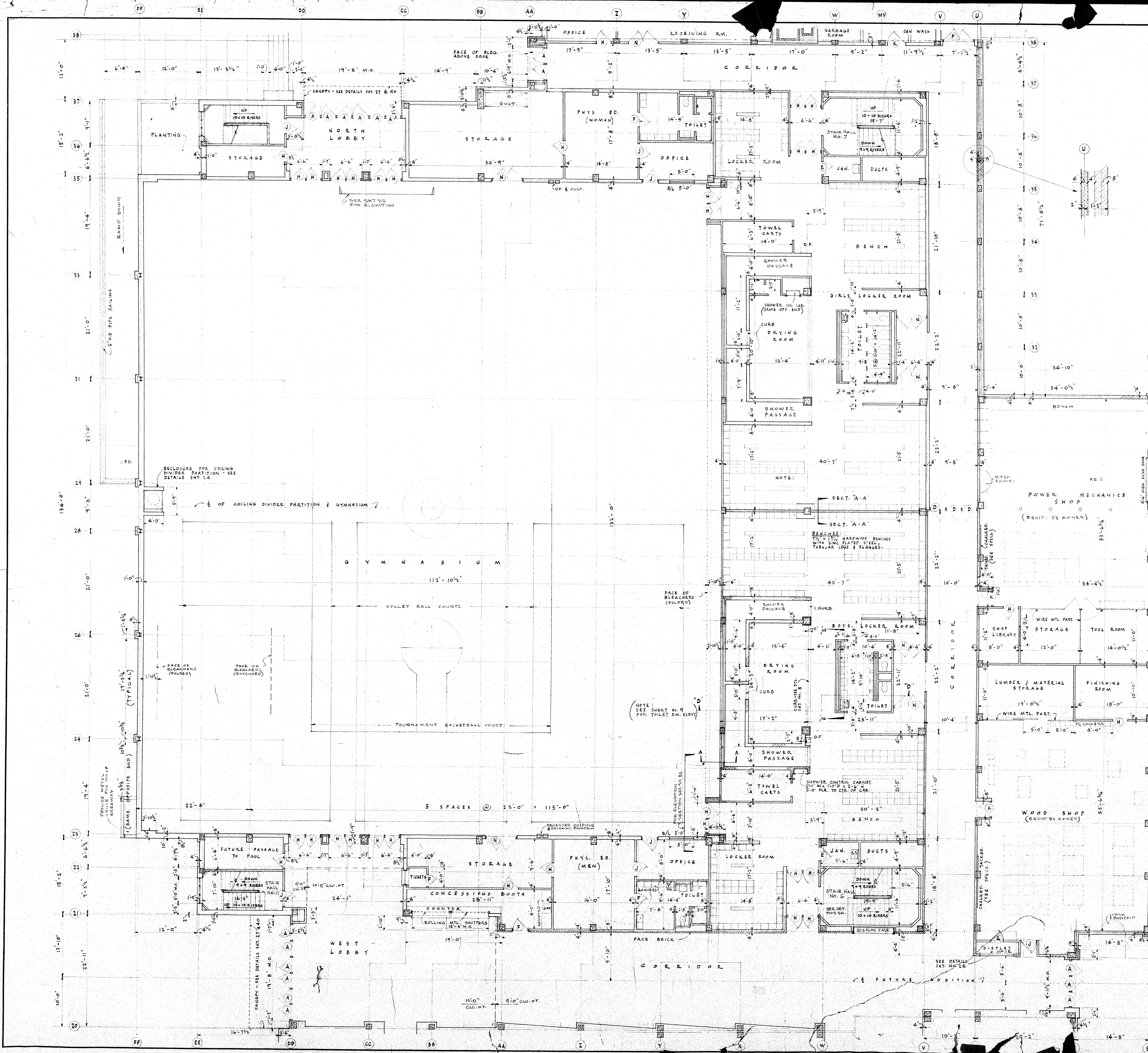
ROOM FINISH SCHEDULE

ROOM	FLOOR	BASE	WALLS	CEILING	REMARKS
STAGE OF AUDITORIUM	WF	WF	WF	WF	SEE SH. 29 FOR PLAZ. REFLECTORS
STAIR BENCHES	CEM	SEE SH. 24	SP	SEE SH. 24	WOOD TRIM - SEE SH. 24 - SEE PLANS FOR AC. CEL. AFRAS & ACBL. WALL AFRAS
AUDITORIUM	CEM	SFT	AC	AC	
STAIRWAYS TO BALCONY	CEM	SFT	P	P	SEE DET. ON SH. 21 & SECTIONS ON SH. 20
TICKET BENCHES	AT	SFT	P	P	
SCENERY SPACE	CEM	SFT	CB	EXP. SCENE	7'-0"
STAGE OF LITTLE THEATRE	WF	WF	WF	WF	SEE SECTION
LITTLE THEATRE	CEM	RT	CB	P	CARPET IN AISLES BY OWNER
CONTROL ROOM	AT	SFT	CB	AC	ACQU. WALL ABOVE 7'-0" HEIGHT
MUSIC OFFICES	AT	SFT	CB	AC	
CHORUS ROOM	AT	SFT	CB	EXP. SCENE	PL. ON ROOF JOISTS - AC. ON 3' SUPPER WALLS
INSTRUMENT STORAGE	AT	SFT	CB	AC	8'-0"
PRACTICE ROOMS	AT	SFT	CB	AC	8'-0"
UNIFORM ROOM	AT	SFT	CB	AC	8'-0"
INSTRUMENTAL RM.	AT	SFT	CB	EXP. SCENE	PL. ON ROOF JOISTS - AC. ON 3' SUPPER WALLS
MEN'S TOILET RM.	CT	SFT	CB	AC	8'-0"
WOMEN'S TOILET RM.	CT	SFT	CB	AC	8'-0"
WOMEN'S REST RM.	AT	SFT	CB	AC	8'-0"
WOMEN'S REST RM.	AT	SFT	CB	AC	8'-0"
STAIR HALL NO. 5	TER	SFT	SFT & CB	AC	8'-0"
TEXTILE & CLOTHING RM.	AT	SFT	CB	AC	10'-0"
OFFICE	AT	SFT	CB	AC	10'-0"
STORE RM.	AT	SFT	CB	AC	10'-0"
FOOD & NUTRITION RM.	AT	SFT	CB	AC	10'-0"
PHYSICAL SCIENCE & ELECTRICAL LAB	AT	SFT	CB	AC	10'-0"
AUDITORIUM CORRIDOR	TER	SFT	SFT	AC	8'-0"
MUSIC CORRIDOR	AT	SFT	CB	AC	8'-0"

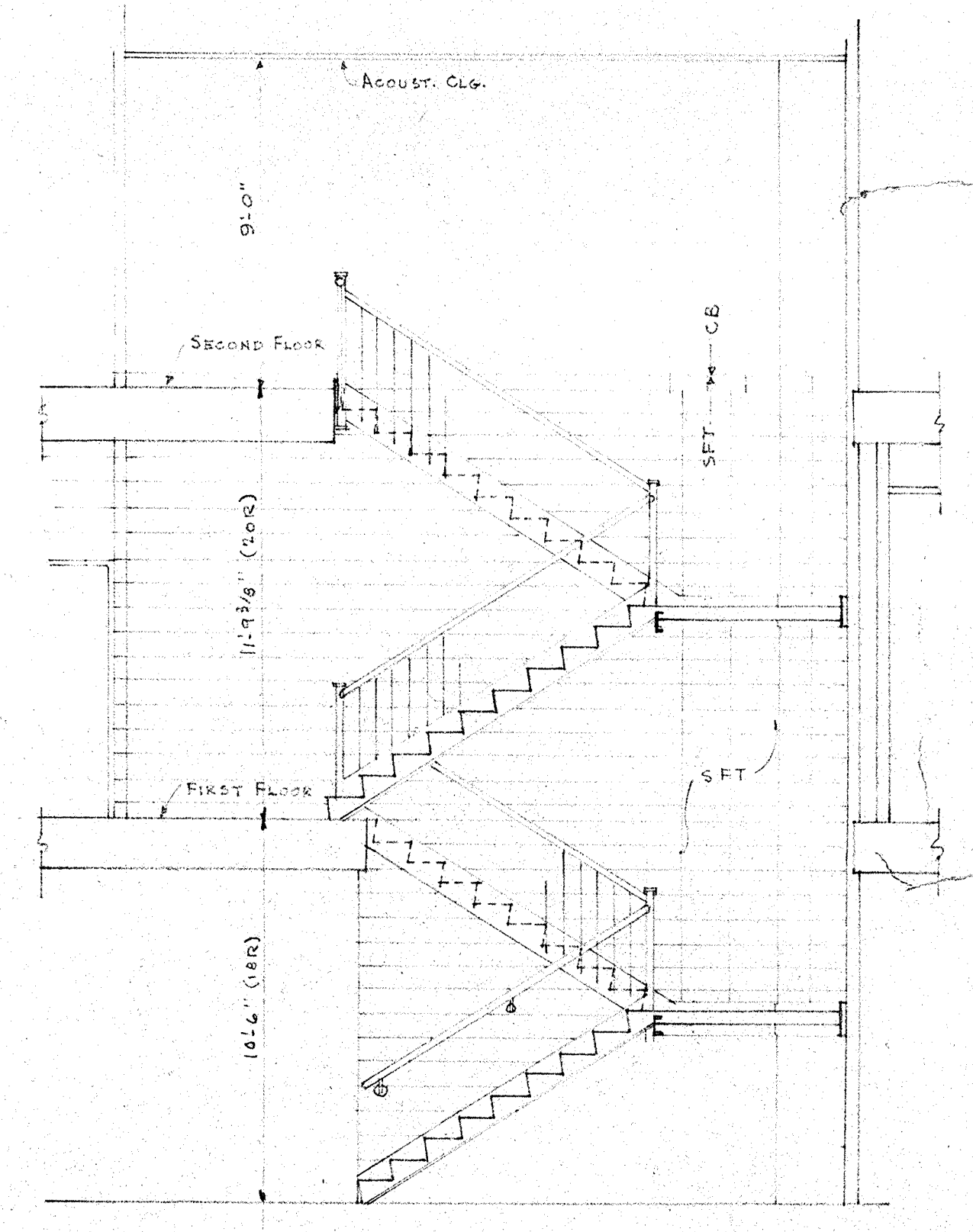
NOTE: EQUIPMENT DESIGNATED IS TO BE PURCHASED BY OWNER BUT INSTALLED BY GEN. CONTRACTOR



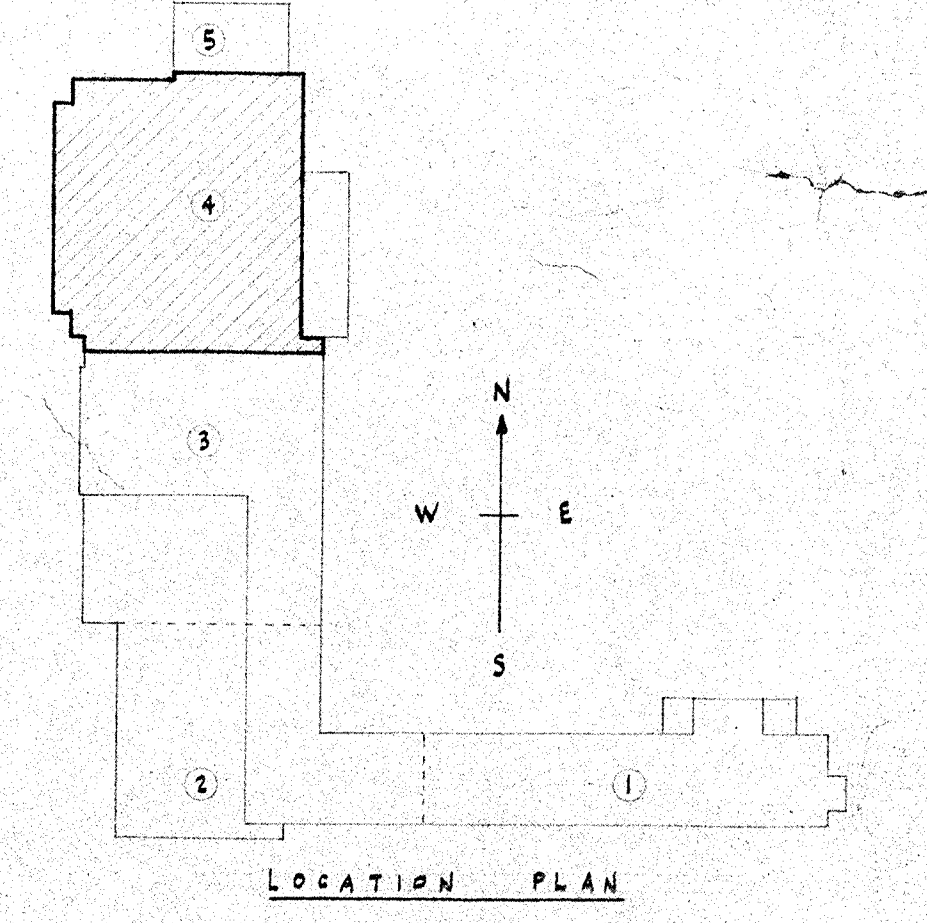
REVISIONS	FIRST FLOOR - PART 3	DATE
	DOWNERS GROVE SOUTH HIGH SCHOOL	5/15/63
	SCHOOL DISTRICT NO. 92	
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS	
	1118	



ROOM	FLOOR	BASE	WALL	FINISH
GYMNASIUM	WOOD	METAL	SFT/CD	
STAIR HALLS	VT	SFT	SFT	
WEST LOBBY	TER.			
STORAGE	AT	SFT	SFT	
TICKETS	AT	SFT	SFT	
CONCESSION	VT	SFT	SFT	
PHYS. ED.	AT	SFT	SFT	
OFFICES	AT	SFT	SFT	
LOCKER ROOMS	AT	SFT	SFT/CD	SFT LOCKER BASES / C.B. BEHIND LOCKERS
TOILETS	CT	SFT	SFT	
SHOWERS	CT	SFT	SFT	CT GUARDS
DEYING	CT	SFT	SFT	CT CURBS
JANITOR	CEM	SFT	SFT	
TOWELS	VT	SFT	SFT	
CORRIDORS	TEL.	SFT	SFT	AC 9'-0"
NORTH LOBBY	TER.	SFT	SFT	AC
POWER MECH. SHOP	CEM	SFT	SFT/CA	
WOOD SHOP	AT	SFT	SFT/CD	
SHOP LIBRARY	AT	SFT	CB	
SHOP STORAGE	CEM	SFT	CB	WIRE MTL. PARTITIONS
SHOP TOOLS	CEM	SFT	CB	WIRE MTL. PARTITIONS
SHOP FINISHING RM.	AT	SFT	CB	

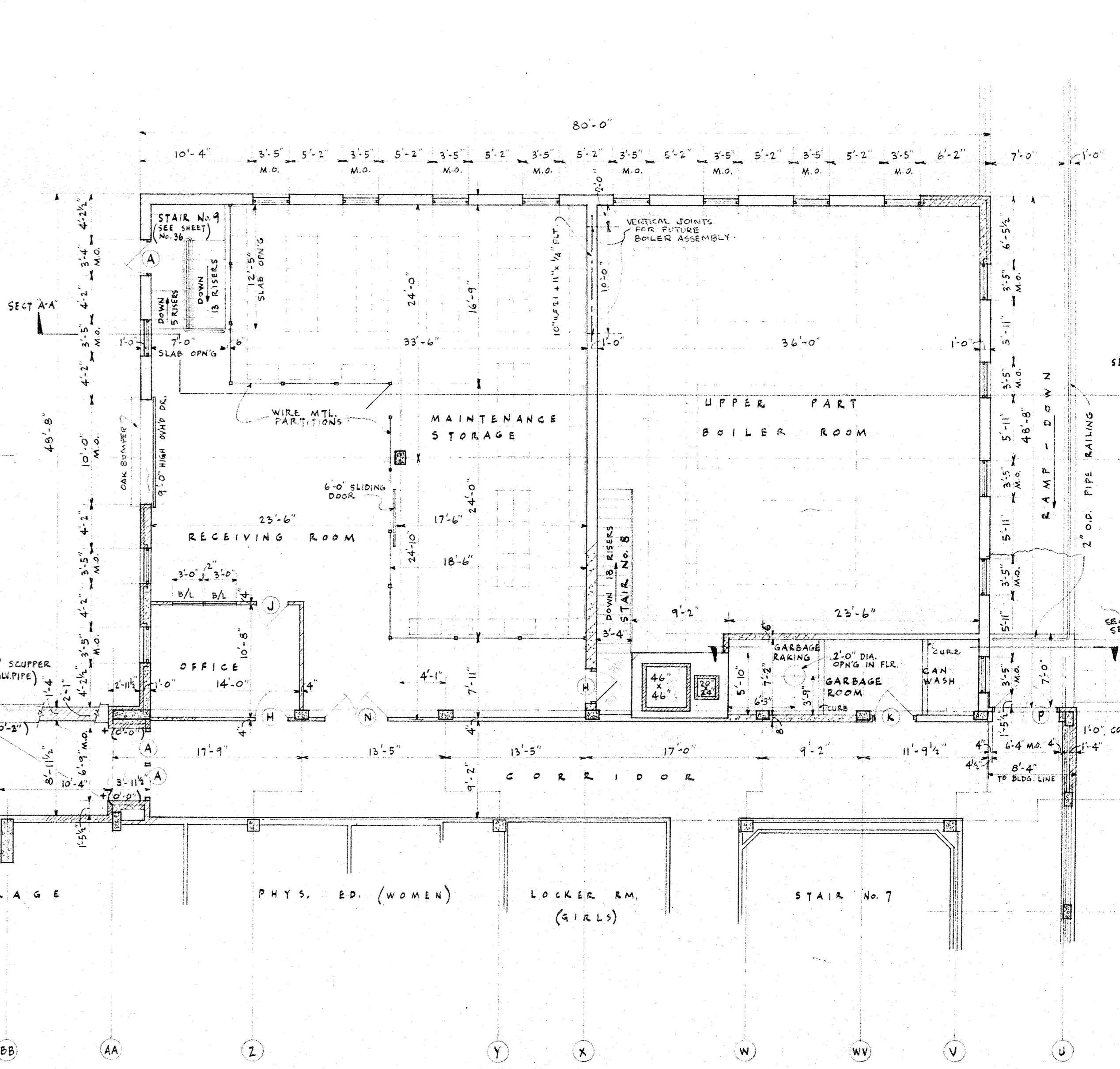
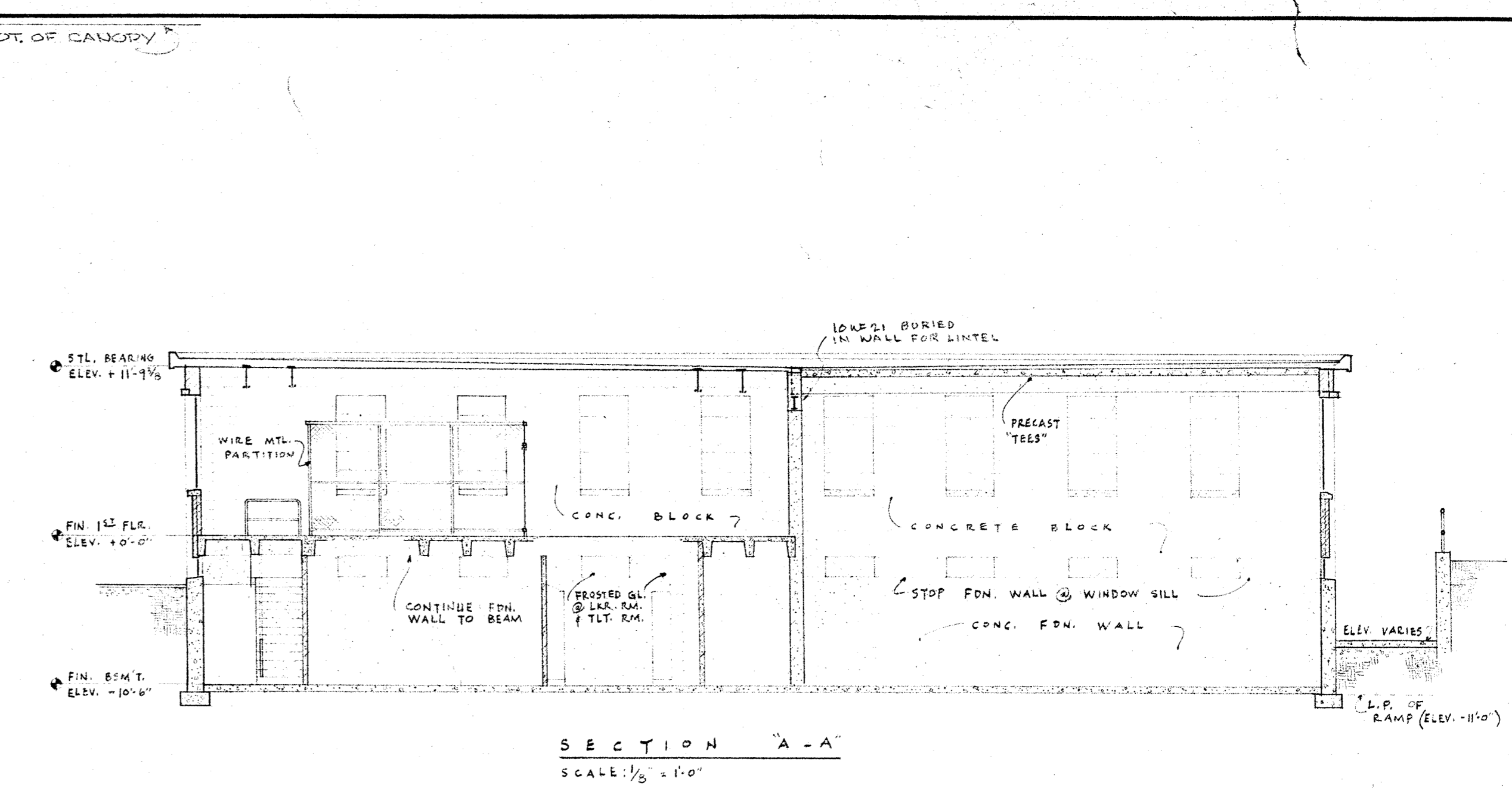
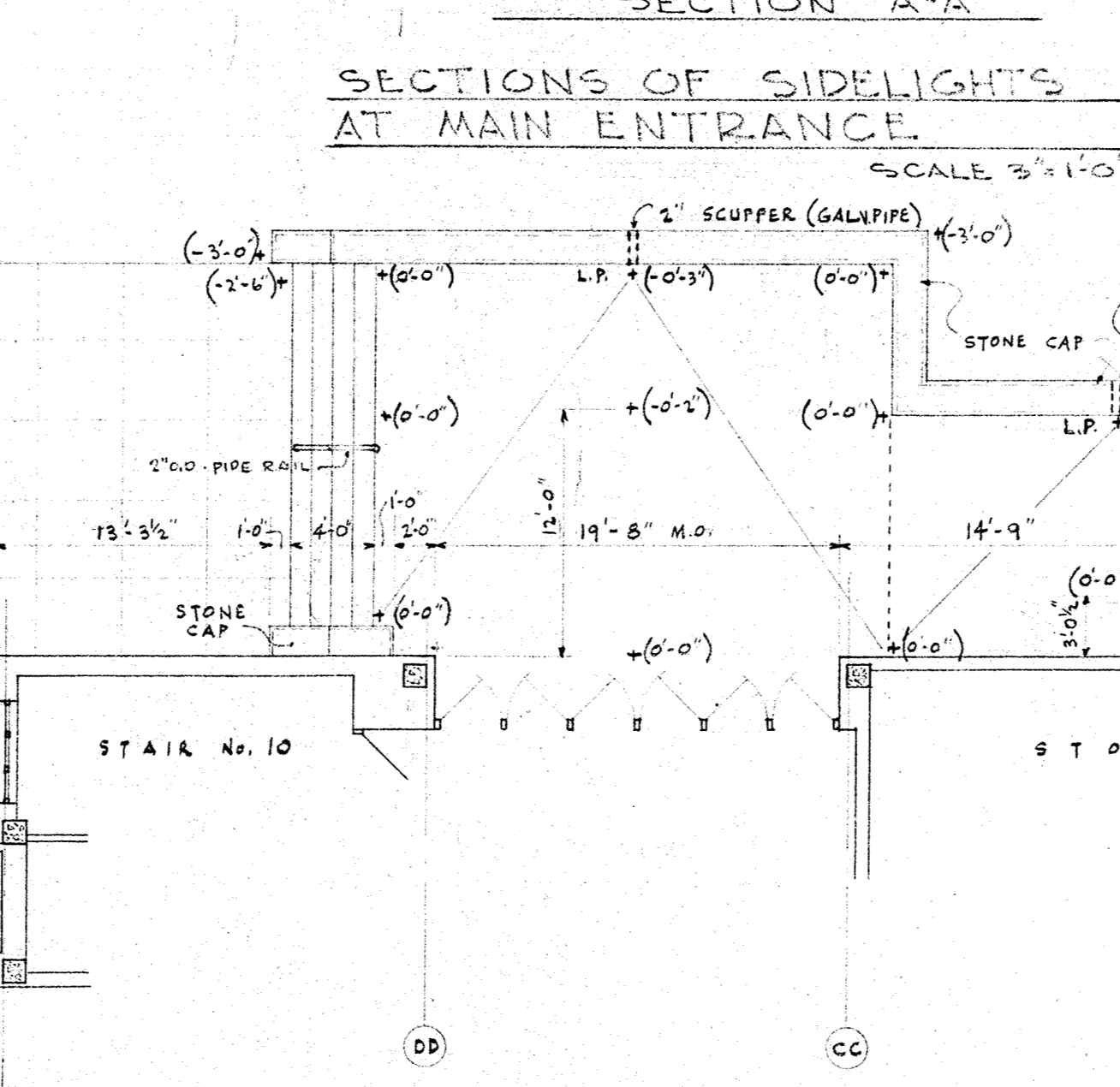
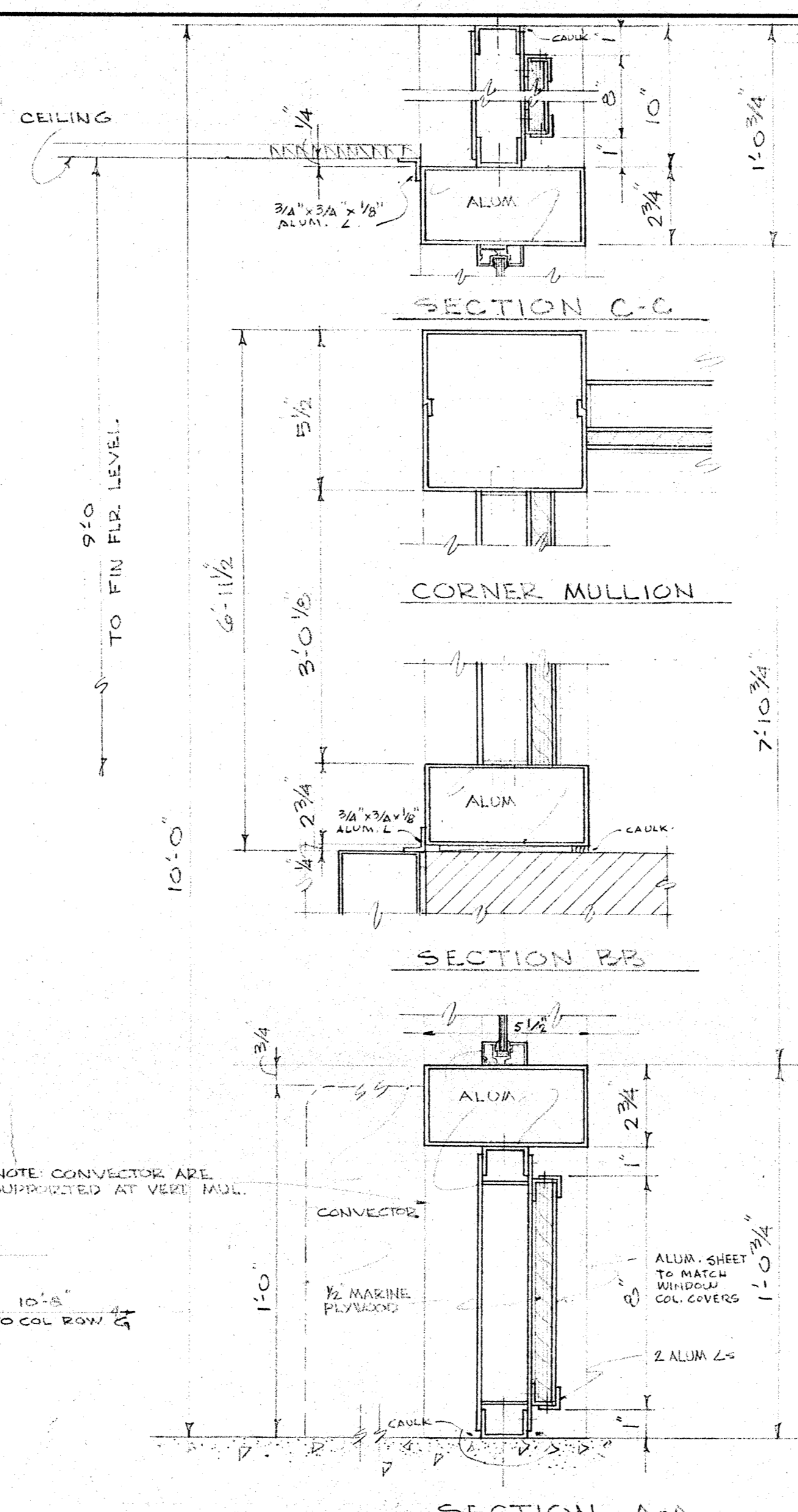
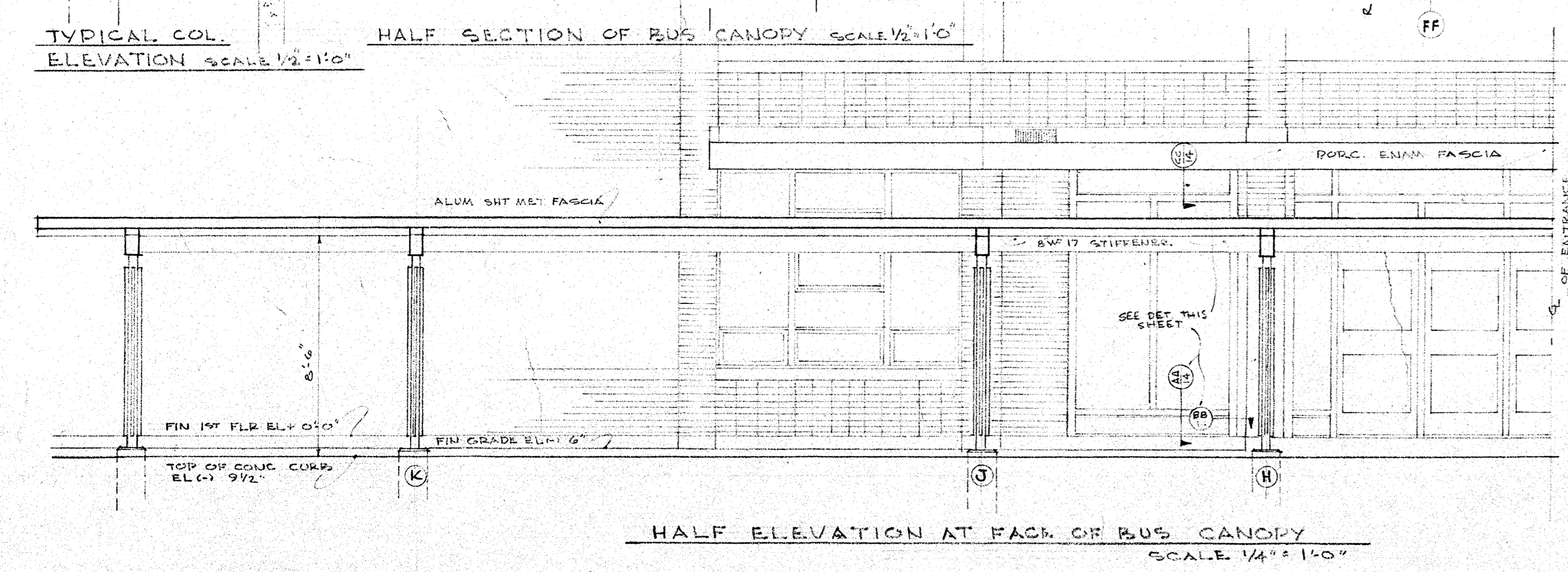
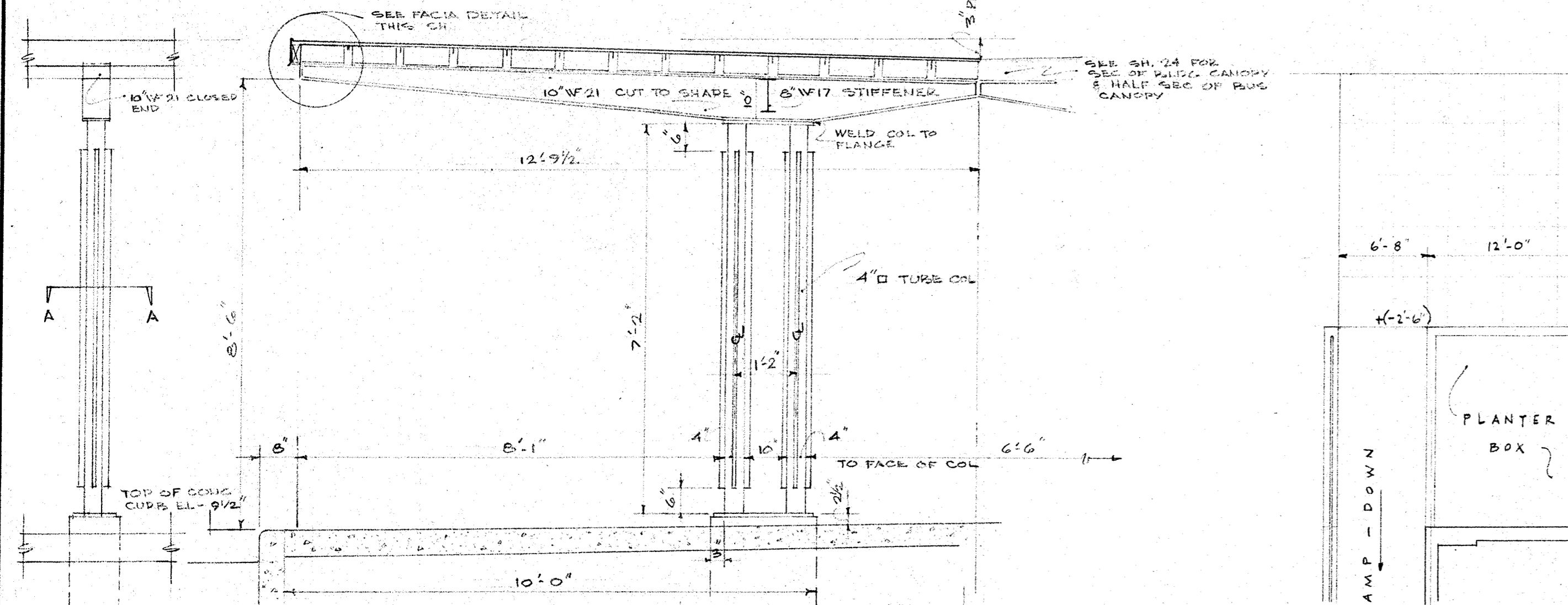
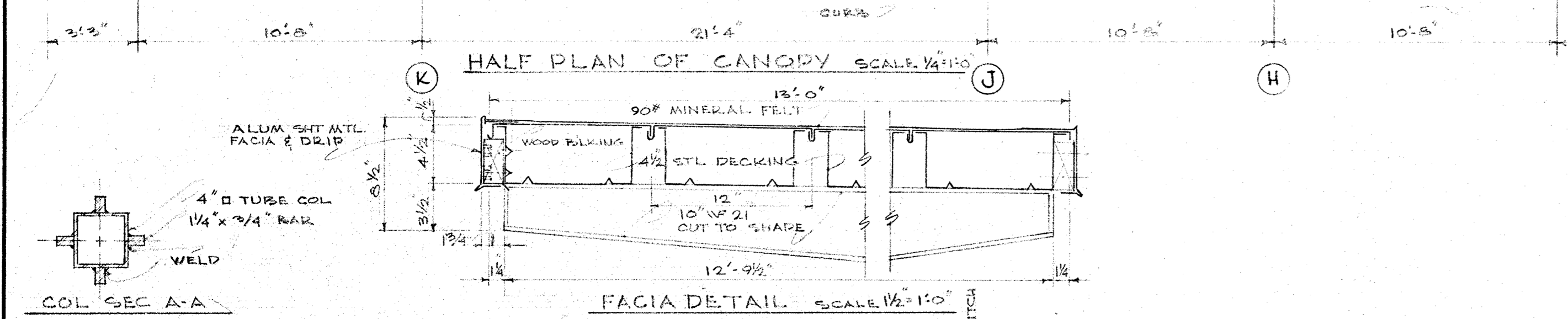
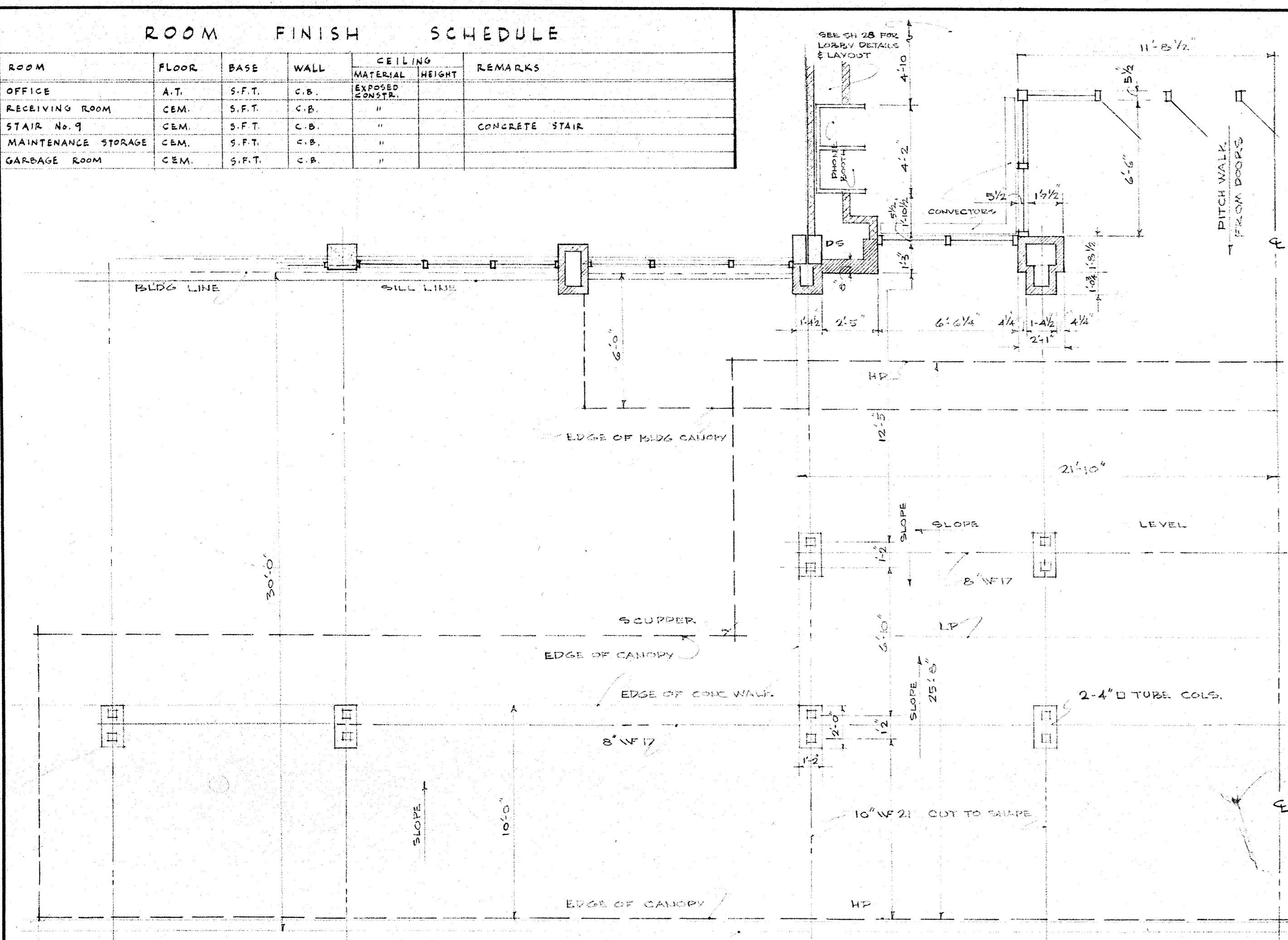


SECTION THRU STAIR HALL NO. 6 SCALE 1/4"=1'-0"
NOTE: STAIR HALLS NO. 7, 10 AND 11 SHALL HAVE SIMILAR TREATMENT



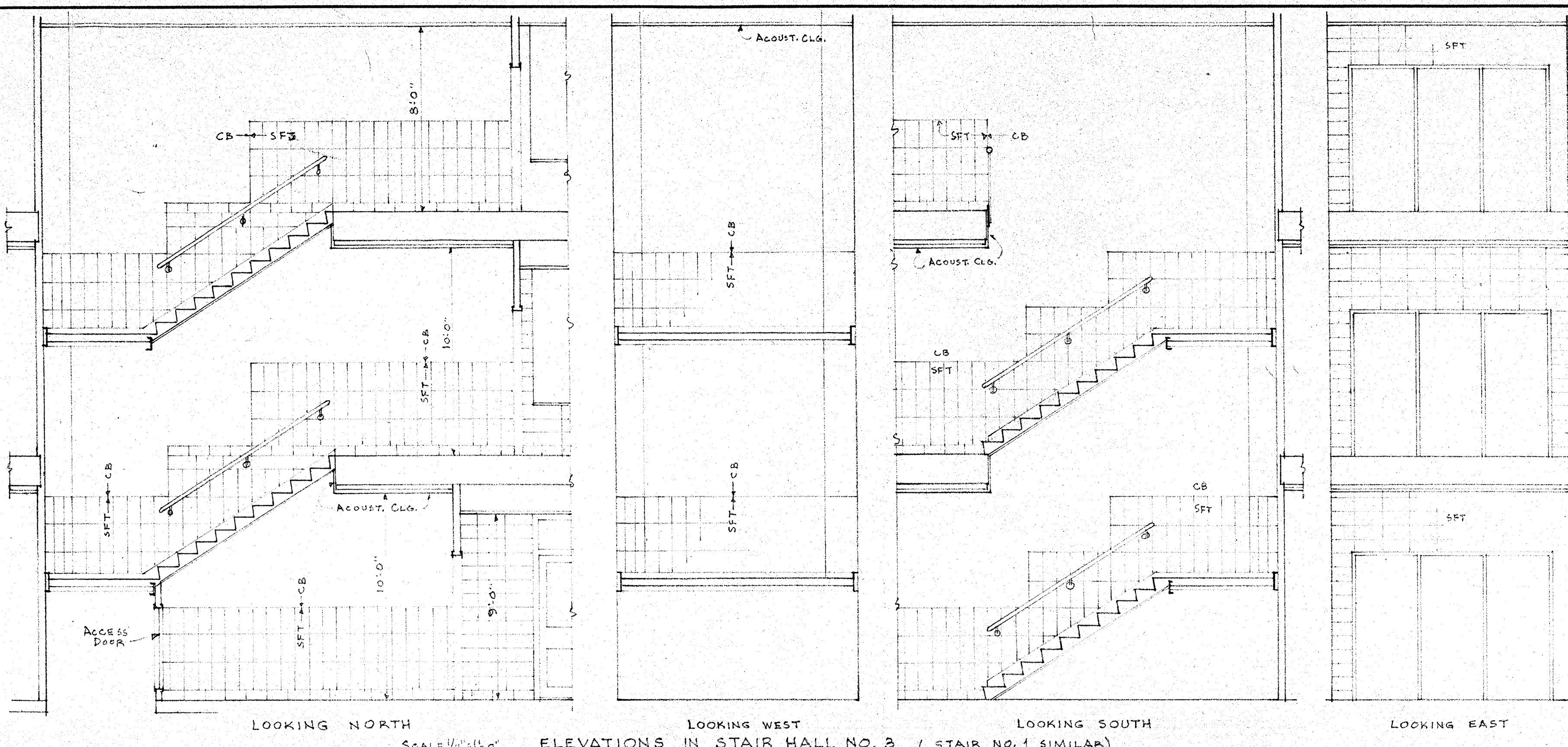
REVISIONS	FIRST FLOOR - PART 4	DATE
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT NO. 99 <td>6/15/68 </td>	6/15/68
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 880 N. MICHIGAN AVE. CHICAGO <td>1418</td>	1418

ROOM FINISH SCHEDULE						
ROOM	FLOOR	BASE	WALL	CEILING	HEIGHT	REMARKS
OFFICE	A.T.	S.F.T.	C.B.	EXPOSED		
RECEIVING ROOM	CEM.	S.F.T.	C.B.			CONCRETE STAIR
STAIR No. 9	CEM.	S.F.T.	C.B.			
MAINTENANCE STORAGE	CEM.	S.F.T.	C.B.			
GARAGE ROOM	CEM.	S.F.T.	C.B.			



REVISIONS	FIRST FLOOR - PART 5	DATE
	DOWNERS GROVE SOUTH HIGH SCHOOL	6/15/28
	SCHOOL DISTRICT No. 99	14
	FUGARD, BURT, WILKINSON, & ORTH	COMM.
	ARCHITECTS	220 N. MICHIGAN AVE. CHICAGO
		1118

ROOM	FLOOR	BASE	WALL	CEILING	SCHEDULE	REMARKS
CORRIDOR	VT	SFT	SFT&PDB	AC	9'-0"	SEE DETAILS
STAIR HALLS	VT	SFT	SFT&CB	AC	10'-0"	SEE DETAILS
BOYS	CT	SFT	SFT	AC	8'-0"	MET. TOILET STALLS
GIRLS	CT	SFT	SFT	AC	8'-0"	MET. TOILET STALLS WITH DOORS
JANITOR	CEM	SFT	CB	NONE		
MECHANICAL	CEM	SFT	CB	NONE		
CARTS	AT	SFT	CB	AC	8'-0"	
STUDY HALL	AT	SFT	SFT&CB	AC	10'-0"	
DEPT. OFFICE	AT	SFT	SFT&CB	AC	10'-0"	
LANGUAGES LAB.	AT	SFT	SFT&CB	AC	10'-0"	
RECORDING	AT	SFT	CB	AC	8'-0"	
CLASSROOMS	AT	SFT	SFT&CB	AC	10'-0"	
SEMINARS	AT	SFT	SFT&CB	AC	10'-0"	

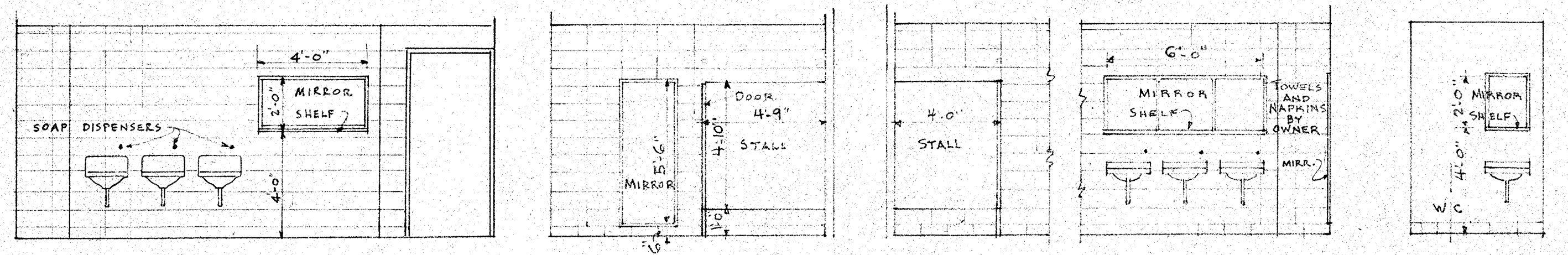
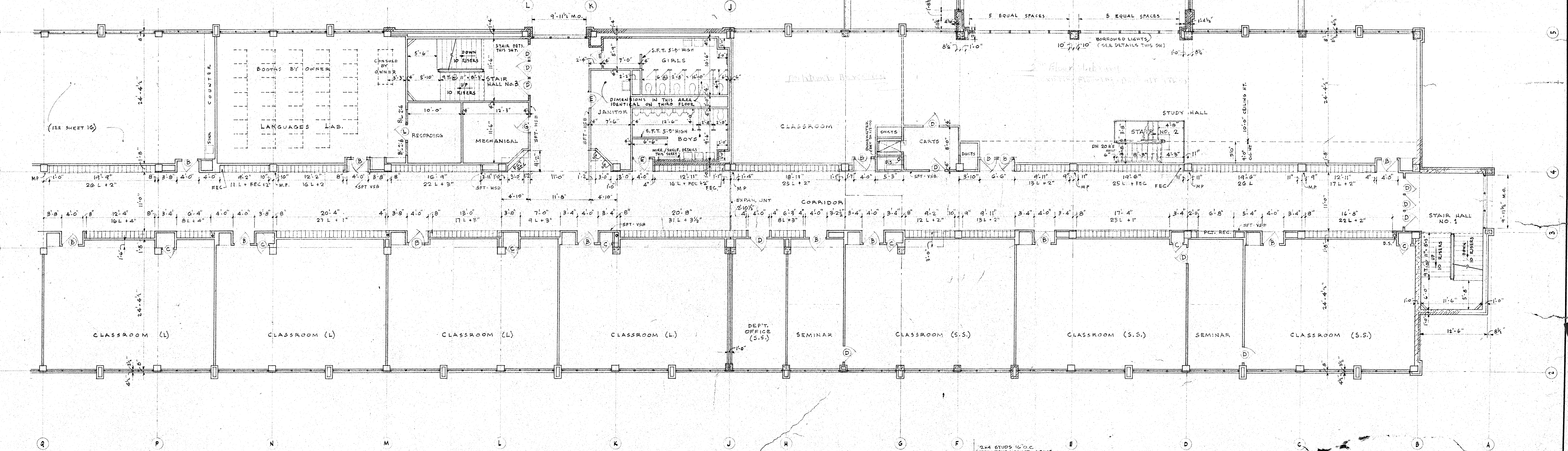


LOOKING NORTH
SCALE 1/4" = 1'-0"

LOOKING WEST
ELEVATIONS IN STAIR HALL NO. 2 (STAIR NO. 1 SIMILAR)

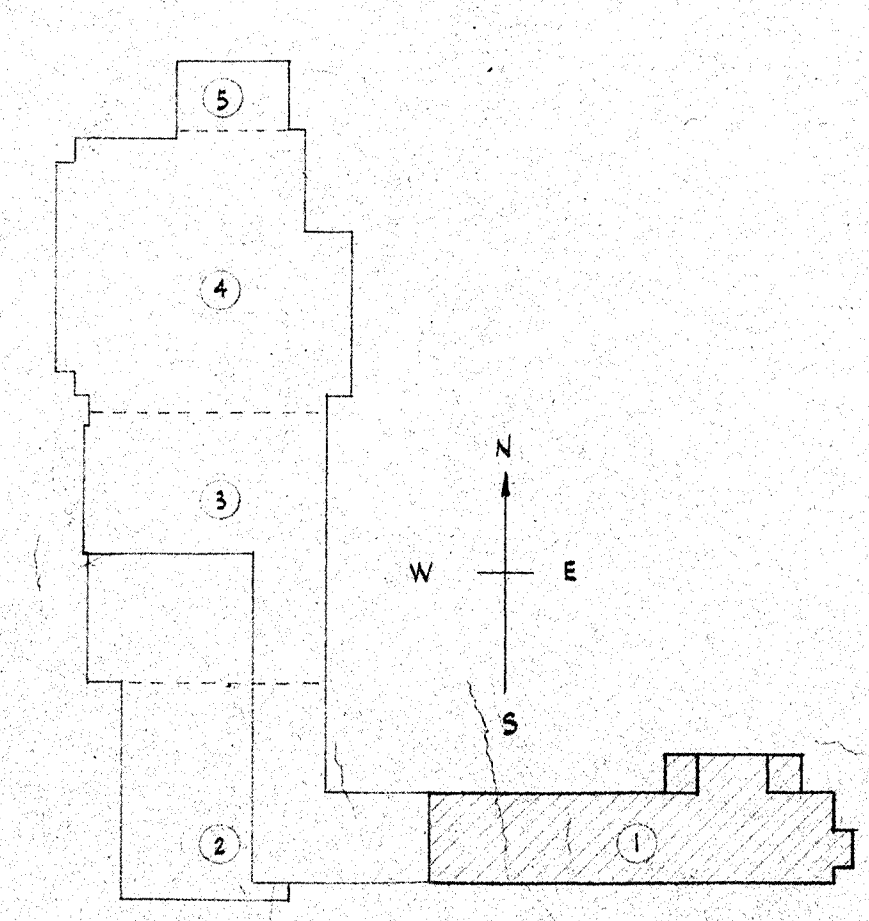
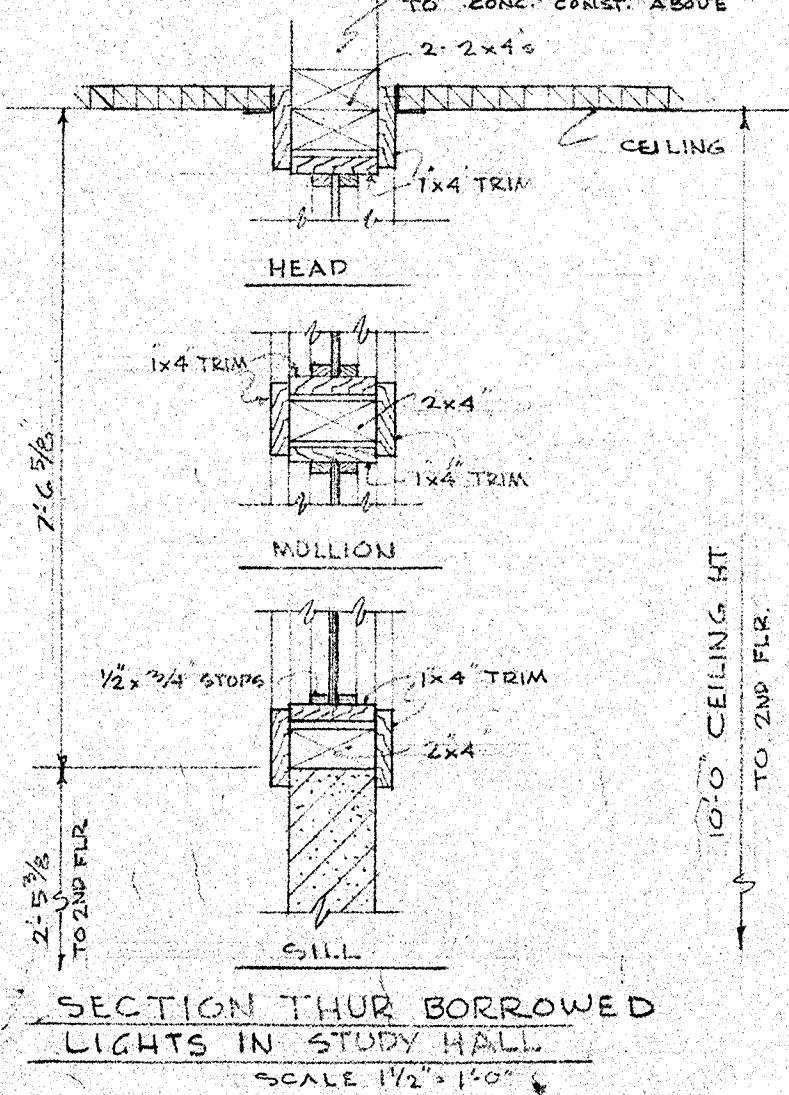
LOOKING SOUTH

LOOKING EAST



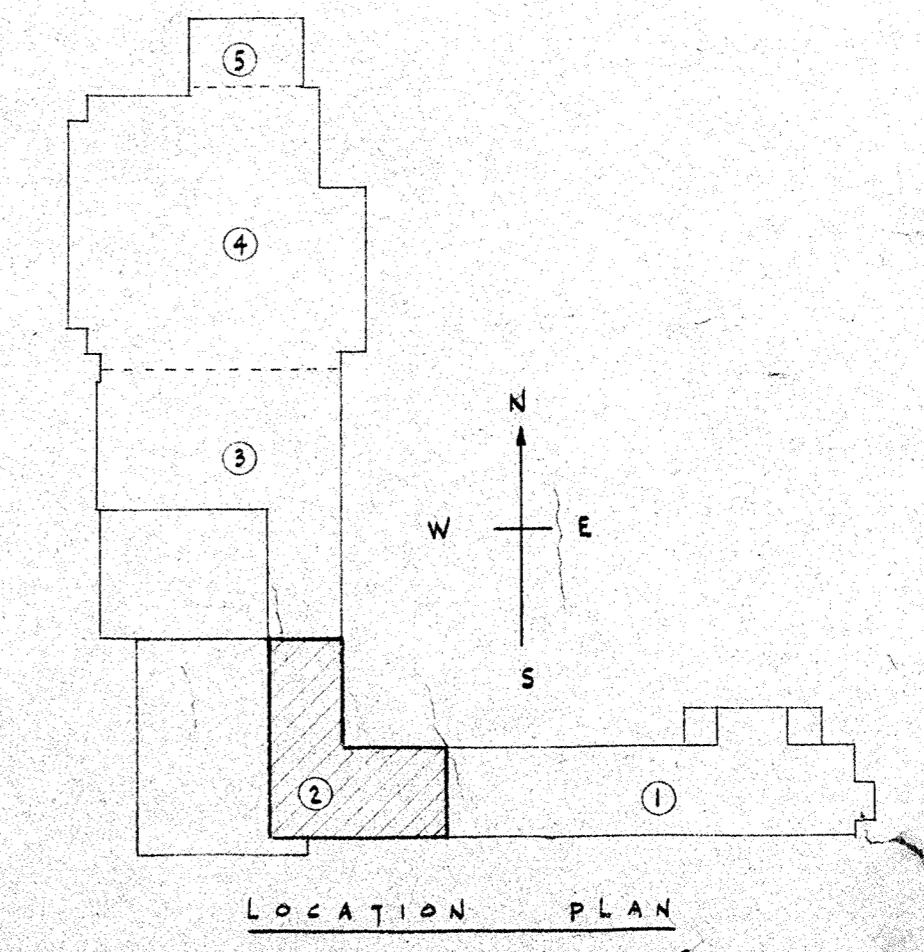
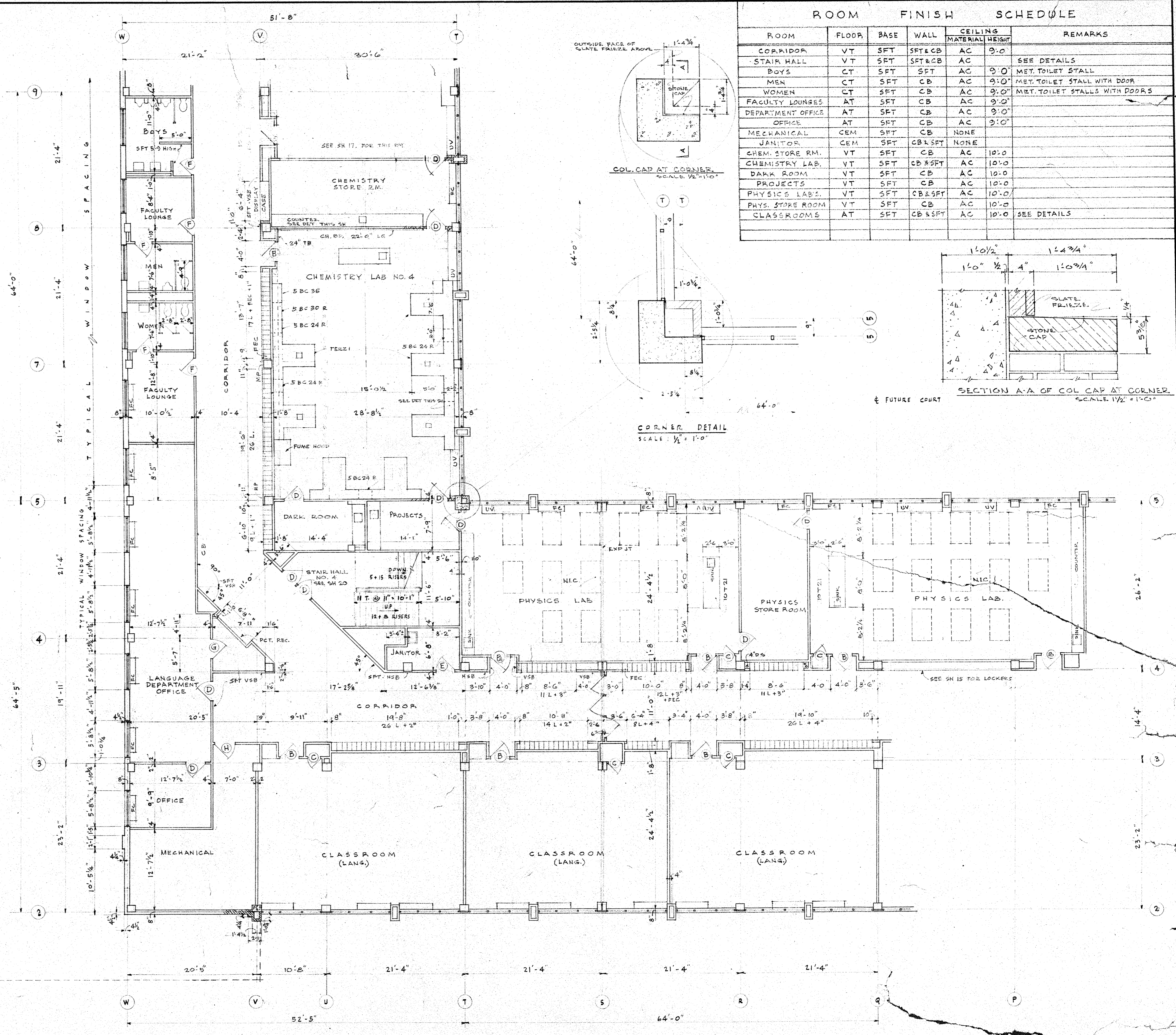
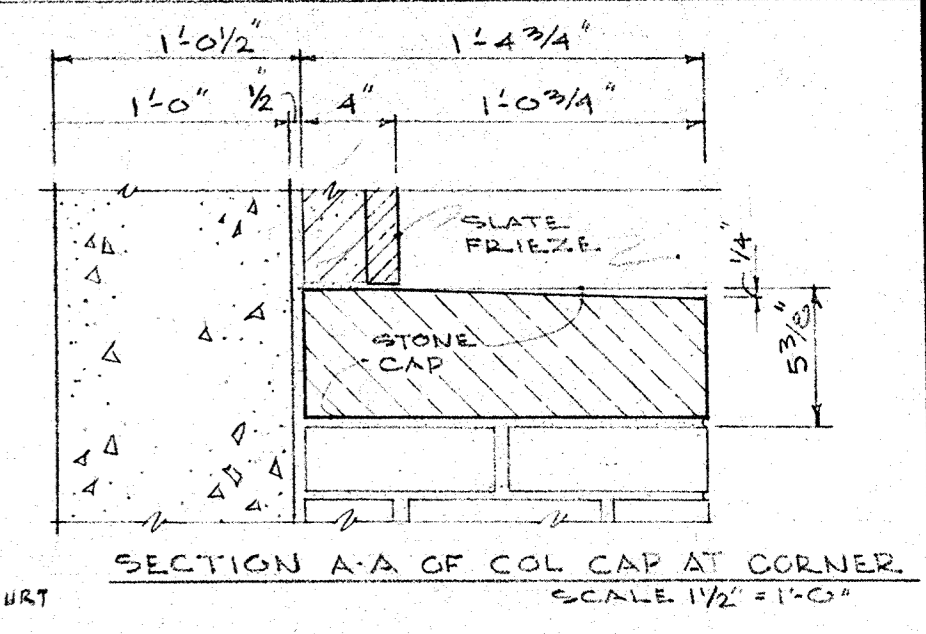
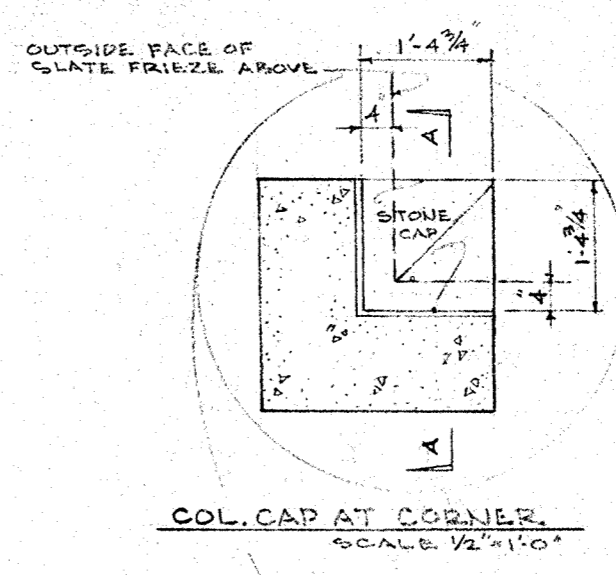
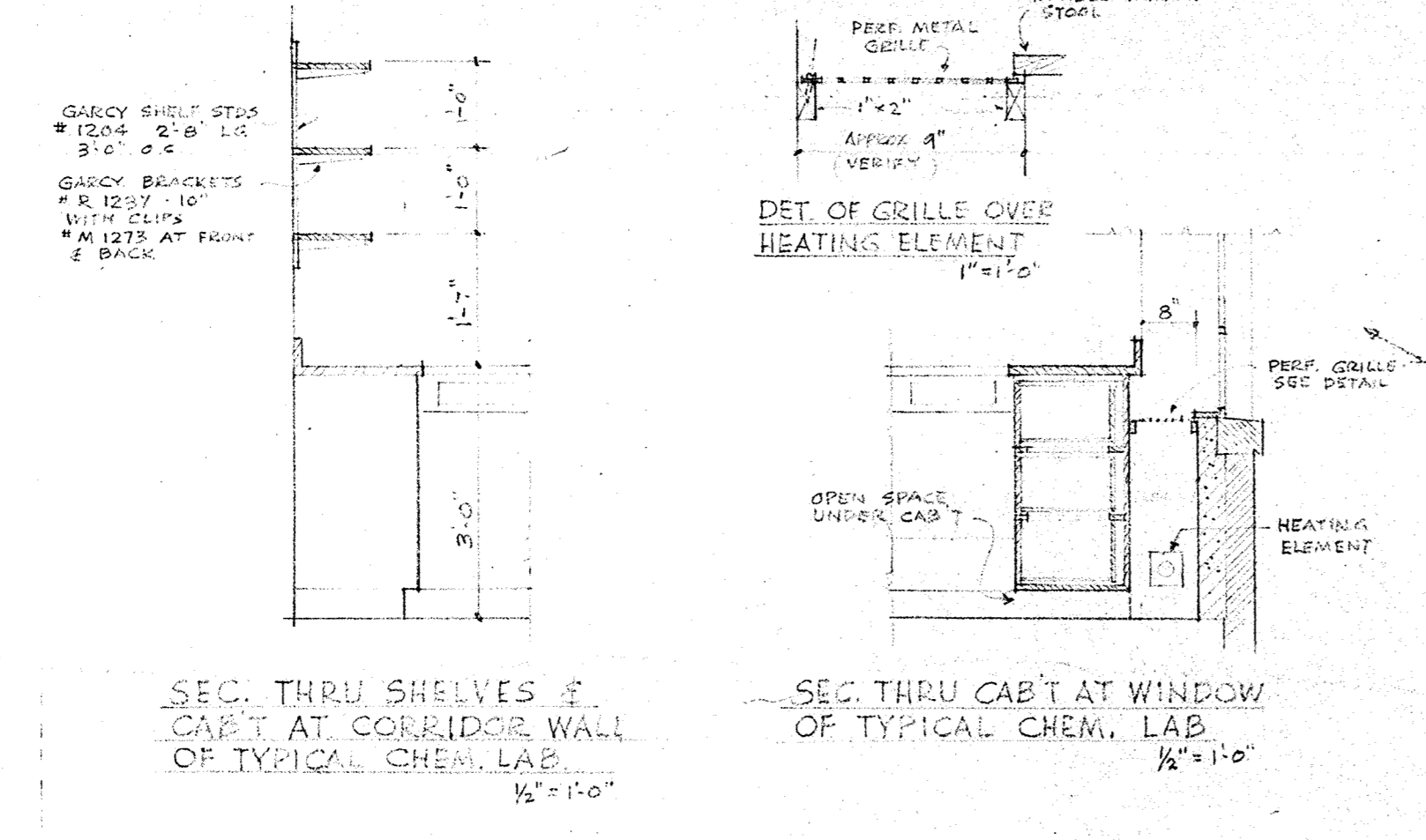
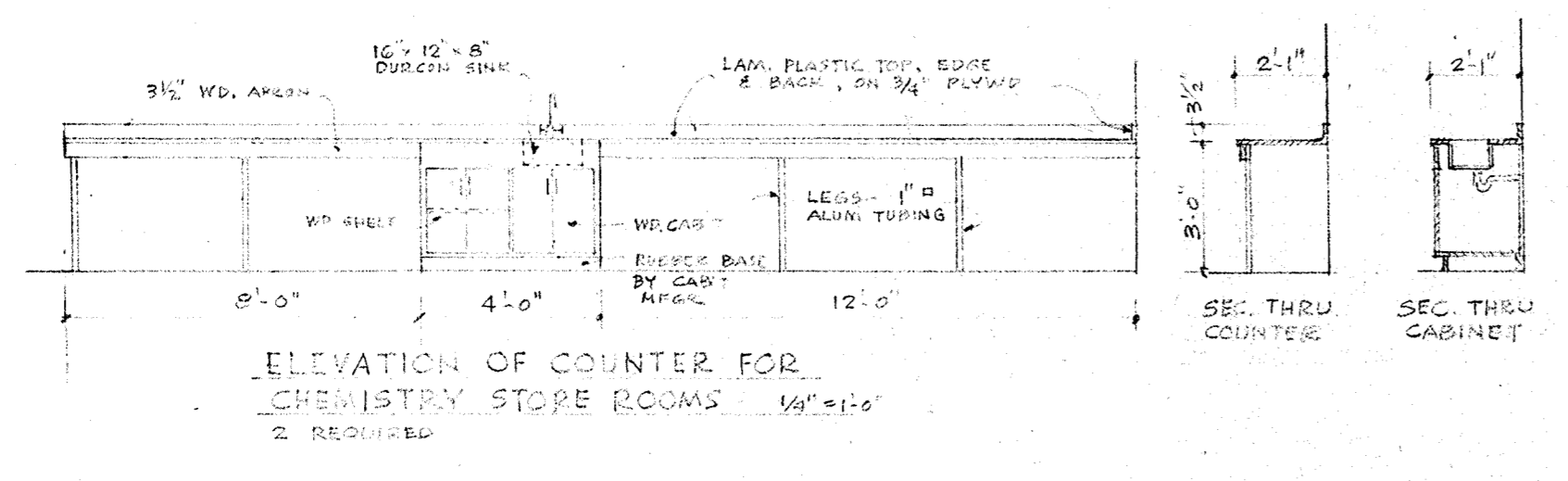
SOUTH ELEVATION - BOYS
EAST ELEVATION - GIRLS
PART EAST - BOYS
PART NORTH - GIRLS
OFFICE TOILETS

NOTE: ALL LAVATORIES IN PARTS 2 AND 3 SHALL HAVE MIRROR WITH SHELF.



REVISIONS	SECOND FLOOR - PART 1	DATE
	DOWNERS GROVE	6/15/23
	SOUTH HIGH SCHOOL	15
	SCHOOL DISTRICT NO. 93	
	FUGARD, BURT, WILKINSON, & ORTH	COMM.
	ARCHITECTS	CHICAGO
	880 N. MICHIGAN AVE.	1118

ROOM	FLOOR	BASE	WALL	CEILING	SCHEDULE	REMARKS
CORRIDOR	VT	SFT	SFT&CB	AC	9'-0"	SEE DETAILS
STAIR HALL	VT	SFT	SFT&CB	AC	9'-0"	SEE DETAILS
BOYS	CT	SFT	SFT	AC	9'-0"	MET. TOILET STALL
MEN	CT	SFT	CB	AC	9'-0"	MET. TOILET STALL WITH DOOR
WOMEN	CT	SFT	CB	AC	9'-0"	MET. TOILET STALLS WITH DOORS
FACULTY LOUNGE	AT	SFT	CB	AC	9'-0"	
DEPARTMENT OFFICE	AT	SFT	CB	AC	9'-0"	
OFFICE	AT	SFT	CB	AC	9'-0"	
MECHANICAL	CEM	SFT	CB	NONE		
JANITOR	CEM	SFT	CB&SFT	NONE		
CHEM. STORE RM.	VT	SFT	CB	AC	10'-0"	
CHEMISTRY LAB.	VT	SFT	CB&SFT	AC	10'-0"	
DARK ROOM	VT	SFT	CB	AC	10'-0"	
PROJECTS	VT	SFT	CB	AC	10'-0"	
PHYSICS LAB.	VT	SFT	CB&SFT	AC	10'-0"	
PHYS. STORE ROOM	VT	SFT	CB	AC	10'-0"	
CLASSROOMS	AT	SFT	CB&SFT	AC	10'-0"	SEE DETAILS



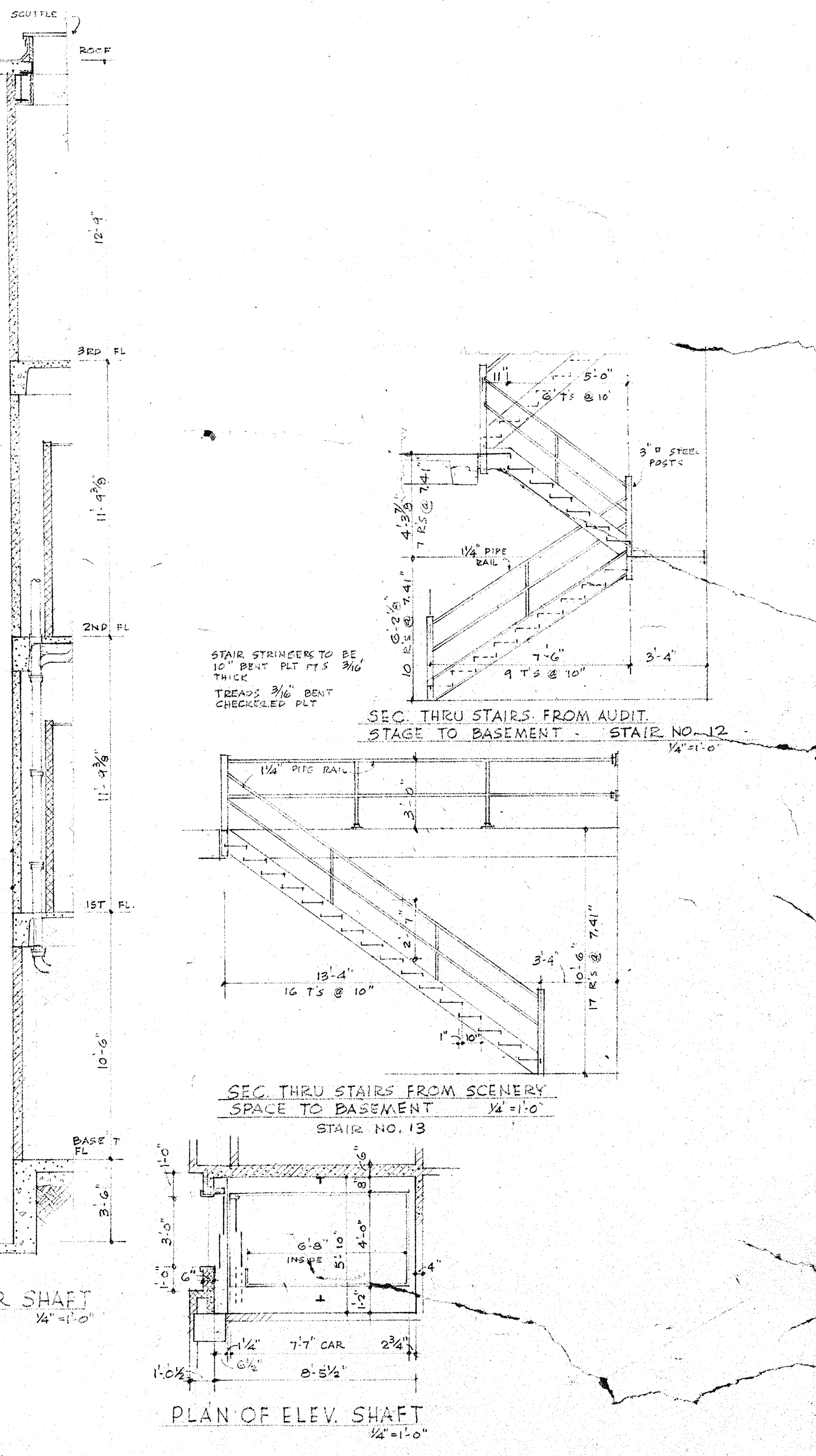
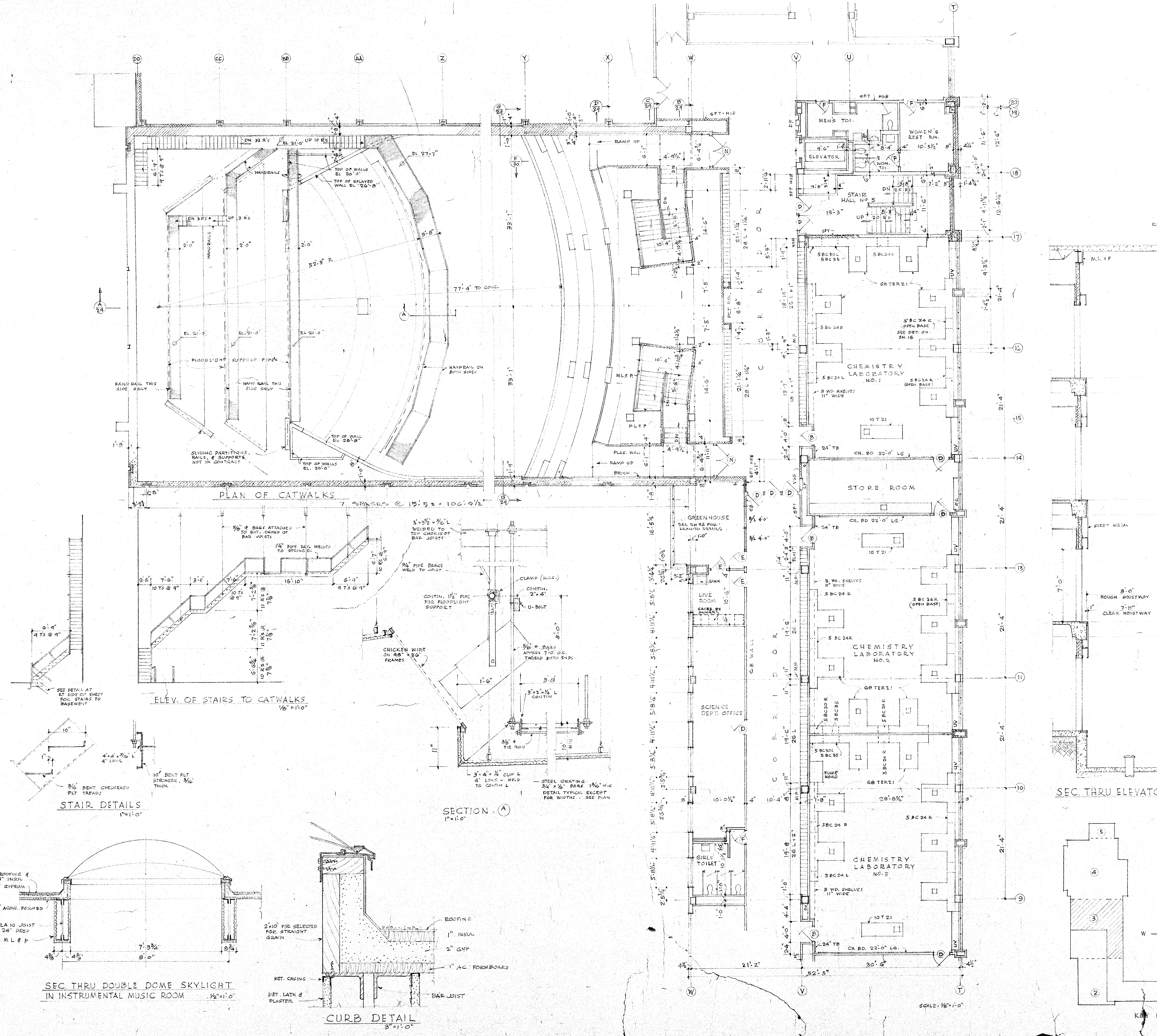
REVISIONS	DATE
	6/15/63

SECOND FLOOR - PART 2
DOWNS GROVE
SOUTH HIGH SCHOOL
SCHOOL DISTRICT NO. 23

FUGARD, BURT, WILKINSON, & ORTH
ARCHITECTS
880 N. MICHIGAN AVE.
CHICAGO

DATE: 6/15/63
SHEET: 16
COMM. NO.: 1118

ROOM FINISH SCHEDULE						
ROOM	FLOOR	BASE	WALLS	CEILING	MATERIAL	REMARKS
ADDITIONAL BALCONY						SEE SH. 24 FOR FINISHES
PASSAGES TO BALCONY						SEE SH. 24 FOR FINISHES
BALCONY STAIRWAYS						
BRICK HOUSE	AT	SFT	CB	AC	9'-6"	
LIVE ROOM	AT	SFT	CB	AC	9'-0"	
SCIENCE DEPT. OFFICE	AT	SFT	CB	AC	9'-0"	
GIRLS TOI ROOM	CT	SFT	CB	AC	8'-0"	
MENS TOI ROOM	CT	SFT	CB	AC	8'-0"	
WOMENS REST ROOM	AT	SFT	CB	AC	10'-0"	
WOMENS TOI	CT	SFT	CB	AC	8'-0"	
LABORATORIES	VT	SFT	CB	AC	10'-0"	
STORE ROOM	VT	SFT	CB	AC	10'-0"	
CORRIDOR	VT	SFT	CB	AC	11'-0"	
STAIR HALL	VT	SFT	SET CB	AC		SEE DETAIL, SHEET 20

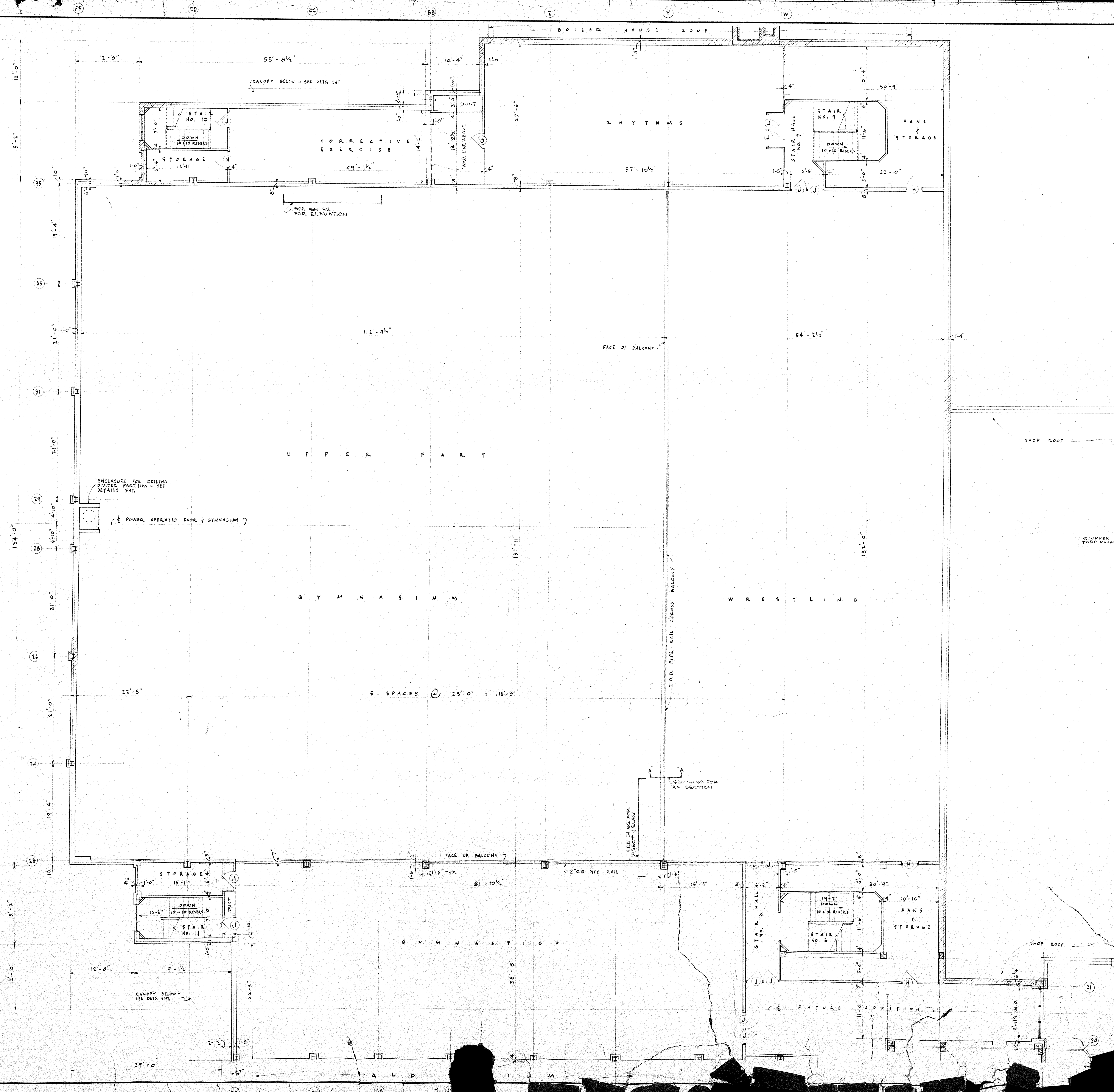


REVISIONS	DATE

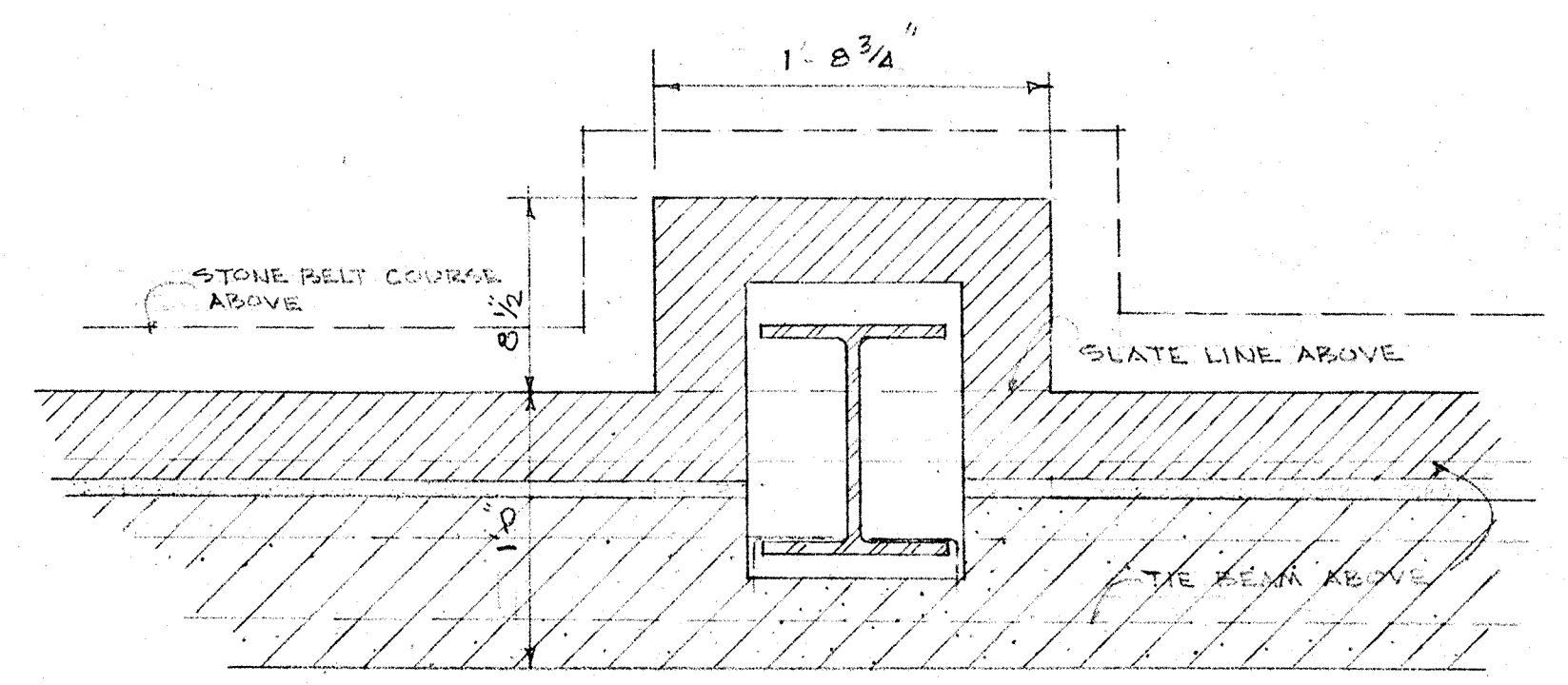
SECOND FLOOR - PART 3

DOWNERS GROVE
SOUTH HIGH SCHOOL DISTRICT

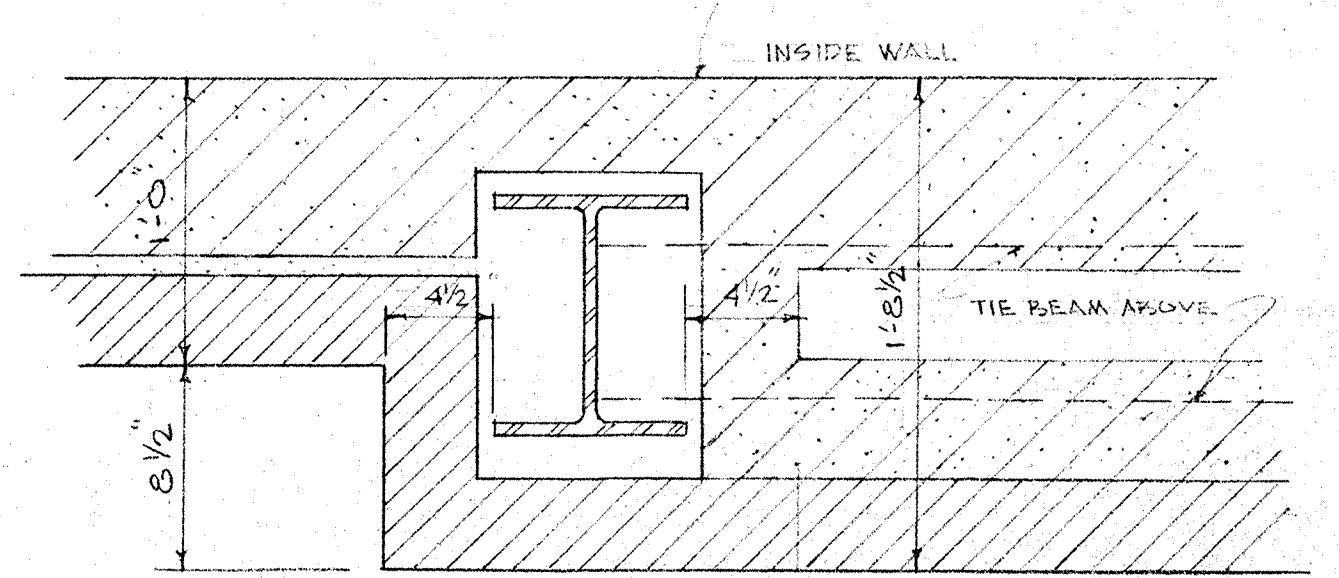
FUGARD, BURT, WILSON
ARCHITECTS
820 N. MICHIGAN



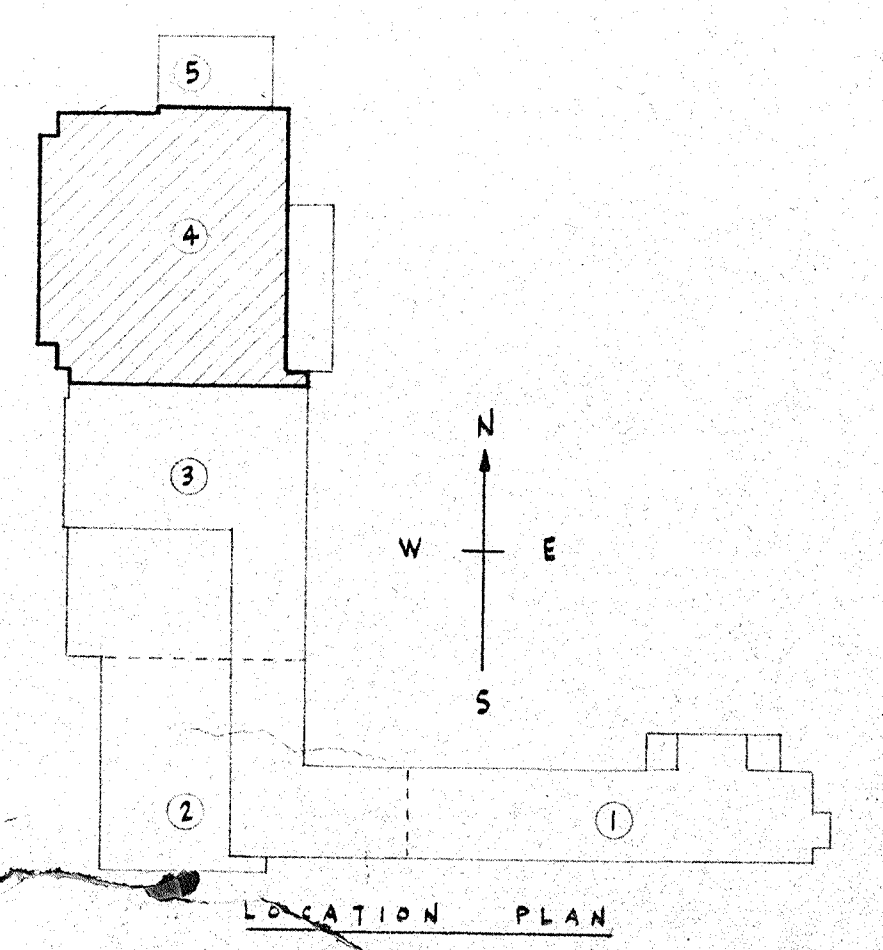
ROOM FINISH SCHEDULE					
ROOM	FLOOR	BASE	WALL	CEILING MATERIAL	REMARKS
GYMNASIUMS	AT	SFT	C.B.	---	---
STAIR HALLS	VT	SFT	SFT/EB	---	---
STORAGE	CEM	SFT	C.B.	---	---
WRESTLING	AT	SFT	C.B.	---	---
RHYTHMS	AT	SFT	C.B.	---	---
CORRECTIVE EXERCISE	AT	SFT	C.B.	---	---



PLAN OF WALL ABOVE ROOF
AT COLUMN DD-35 SCALE 1/2\"/>



PLAN OF WALL ABOVE STAIRWELL ROOF
AT COLUMN DD 23 SCALE 1/2\"/>

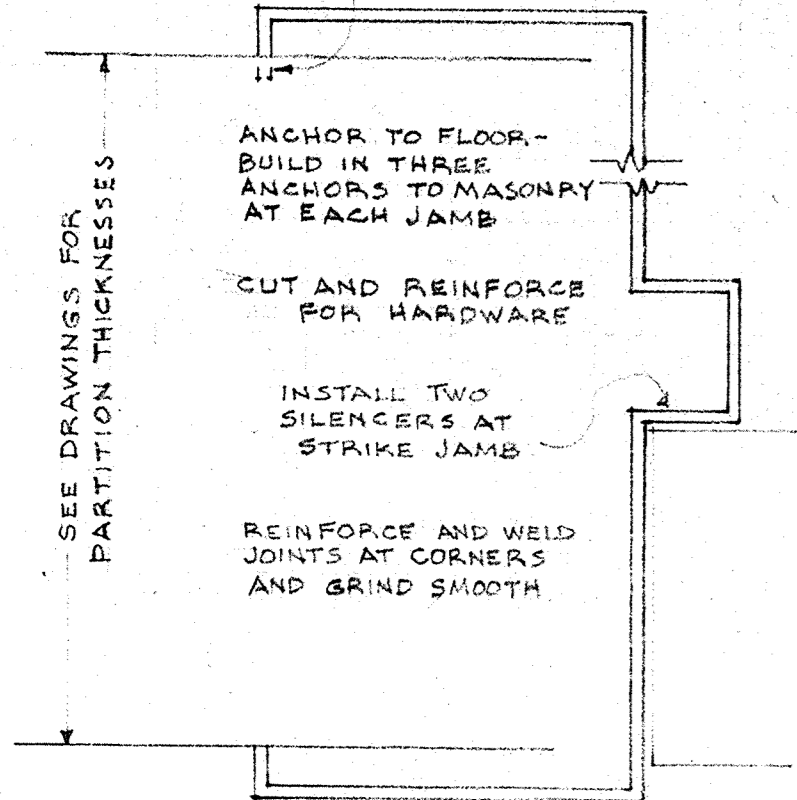


REVISIONS	DATE

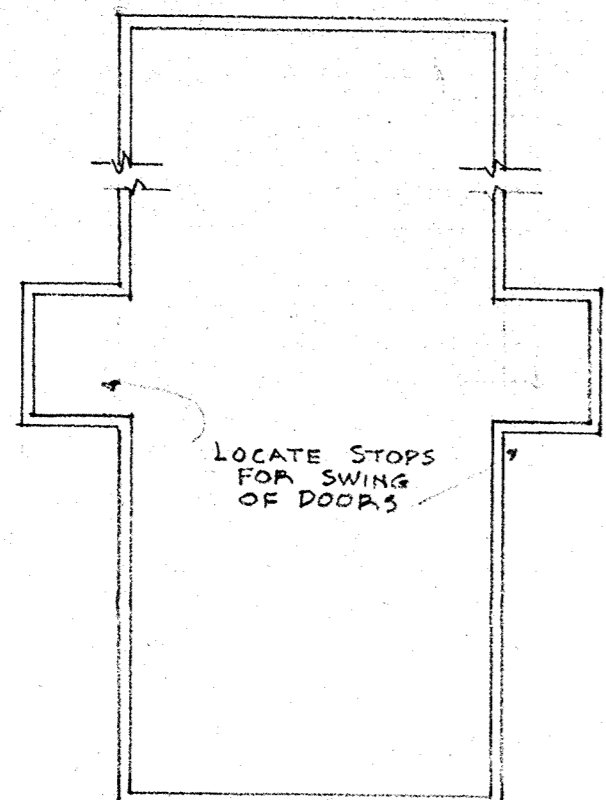
SECOND FLOOR PART 4 DATE 6/15/62 SHEET

DOWNERS GROVE
SOUTH HIGH SCHOOL
SCHOOL DISTRICT NO. 99
FUGARD, BURT, WILKINSON, & ORY
ARCHITECTS
830 N. MICHIGAN AVE. CHICAGO, ILL.

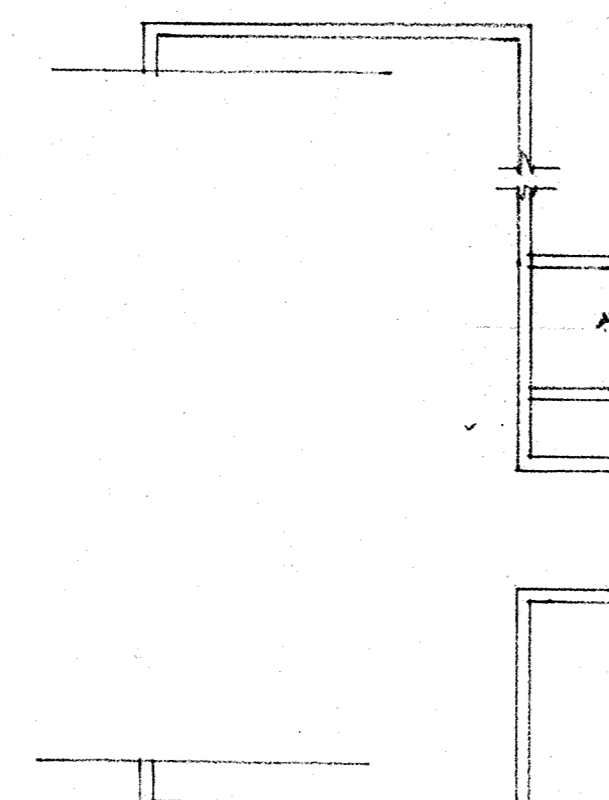
WHERE TWO THICKNESSES OF MASONRY OCCUR IN HEIGHT OF FRAME, ADD FILLET TO FORM TIGHT JOINT



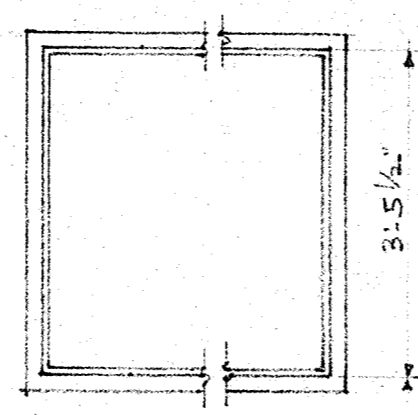
FULL SIZE SECTION TYPICAL INTERIOR DOOR FRAME 1/2 GAUGE STEEL



TYPICAL INTERIOR DOOR MULLION

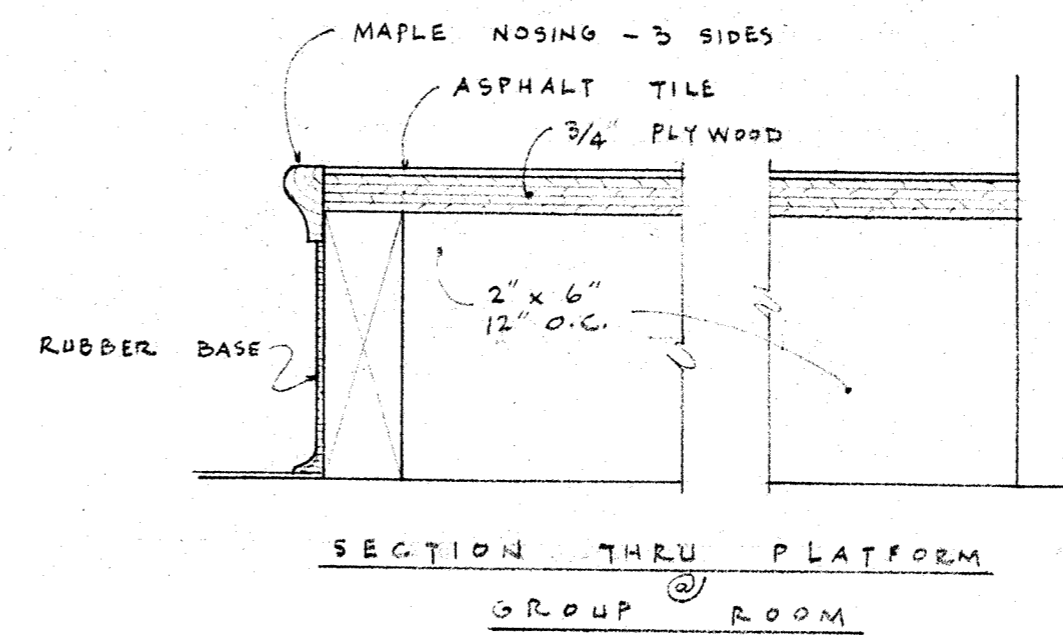


TYPICAL BORROWED LIGHT FRAME



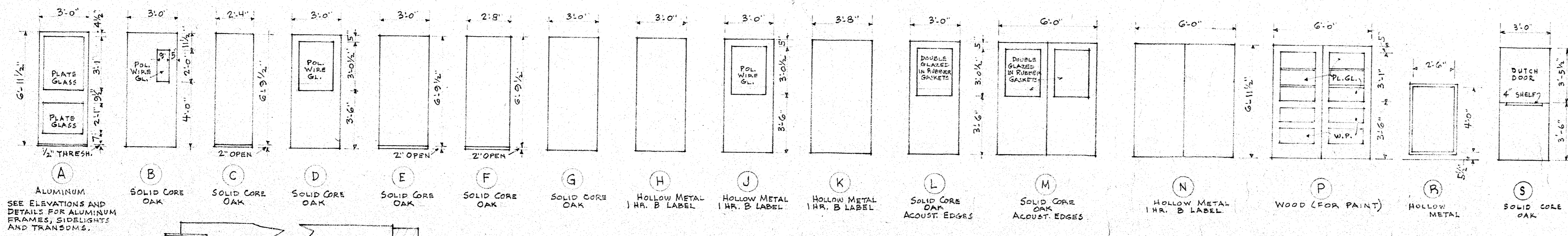
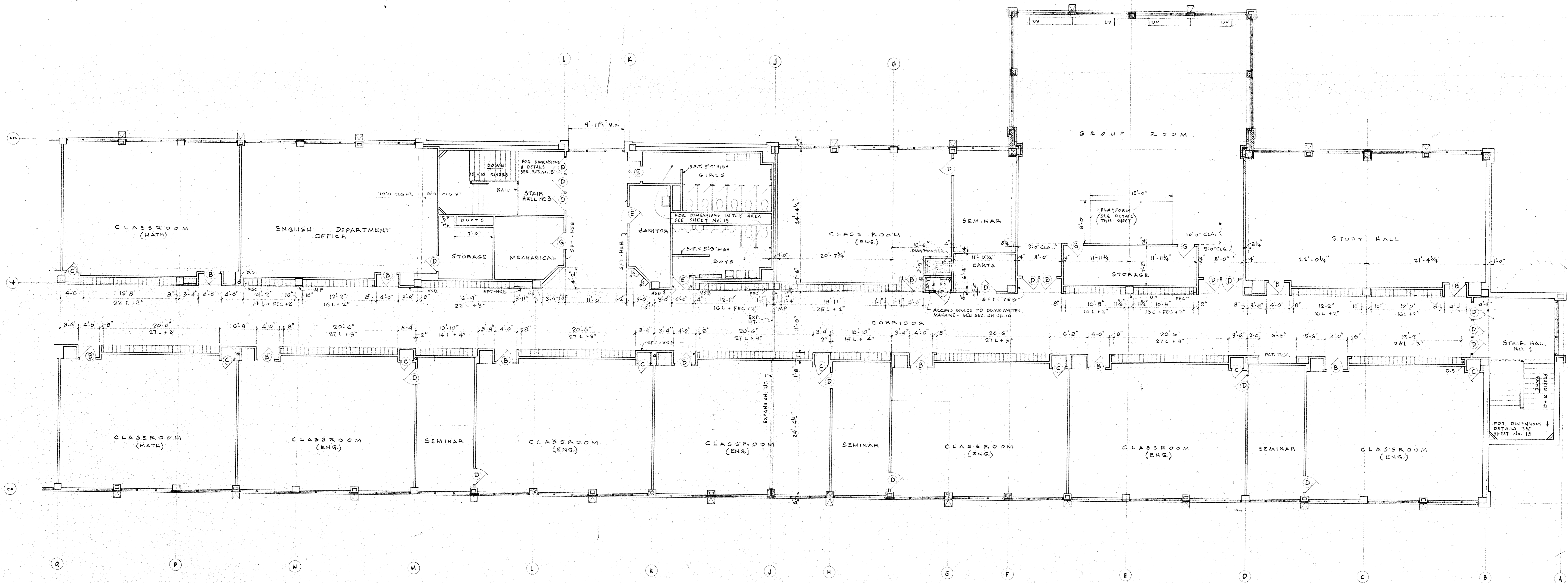
TYPICAL ELEVATION OF BORROWED LIGHTS

NOTE: THE LETTERS B/W ON PLANS INDICATE LOCATIONS OF BORROWED LIGHTS. FIGURES FOLLOWING THE LETTERS B/W IS THE WIDTH OF BORROWED LIGHT BETWEEN JAMBS (GLASS WIDTH).



ROOM	FLOOR	BASE	WALL	CEILING	REMARKS
CORRIDOR	VT	SFT	SFT & BR	AC	9'-0" SEE DETAILS
STAIR HALLS	VT	SFT	SFT & CB	AC	8'-0" SEE DETAILS
BOYS	CT	SFT	SFT	AC	8'-0" MET. TOILET STALLS
GIRLS	CT	SFT	SFT	AC	8'-0" MET. TOILET STALLS WITH DOORS
JANITOR	CEM	SFT	CB	AC	8'-0"
STORAGE	AT	SFT	CB	AC	9'-0"
CARTS	CEM	SFT	CB	AC	9'-0"
ACCESS	AT	SFT	CB	AC	9'-0"
MECHANICAL	CEM	SFT	CB	AC	9'-0"
DEPARTMENT OFFICE	AT	SFT	CB	AC	10'-0"
GROUP ROOM	AT	SFT	CB	AC	10'-0"
STUDY HALL	AT	SFT	CB	AC	10'-0"
CLASS ROOMS	AT	SFT	CB	AC	10'-0" SEE DETAILS
SEMINARS	AT	SFT	CB	AC	10'-0"

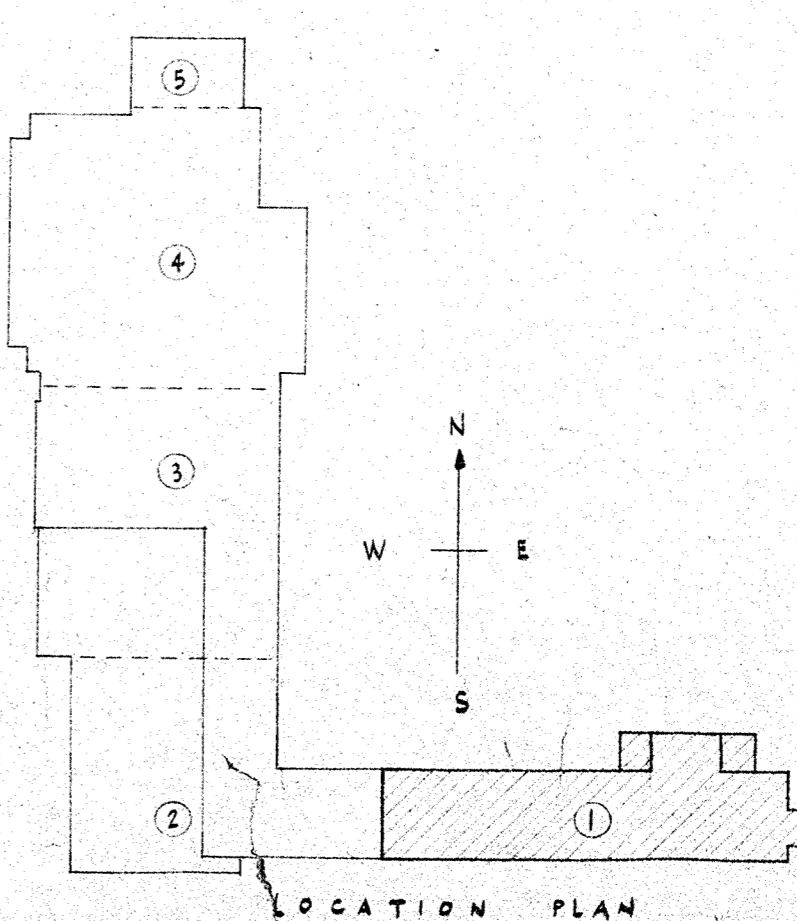
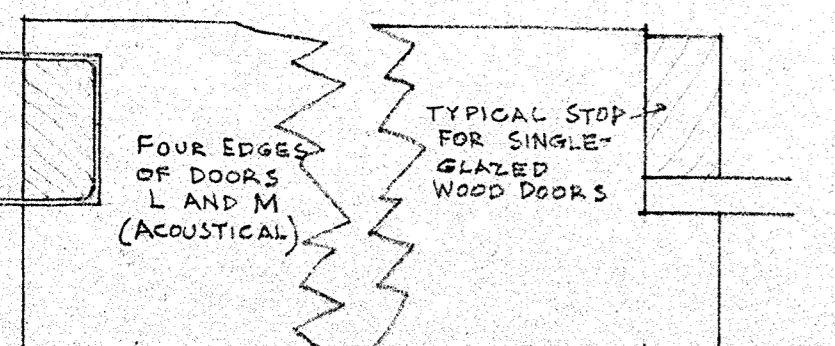
NOTE: CONCRETE BLOCK OF NOMINAL 4" IS 3 3/4" THICK. STRUCT. FACING TILE OF NOMINAL 4" IS 3 3/4" THICK.



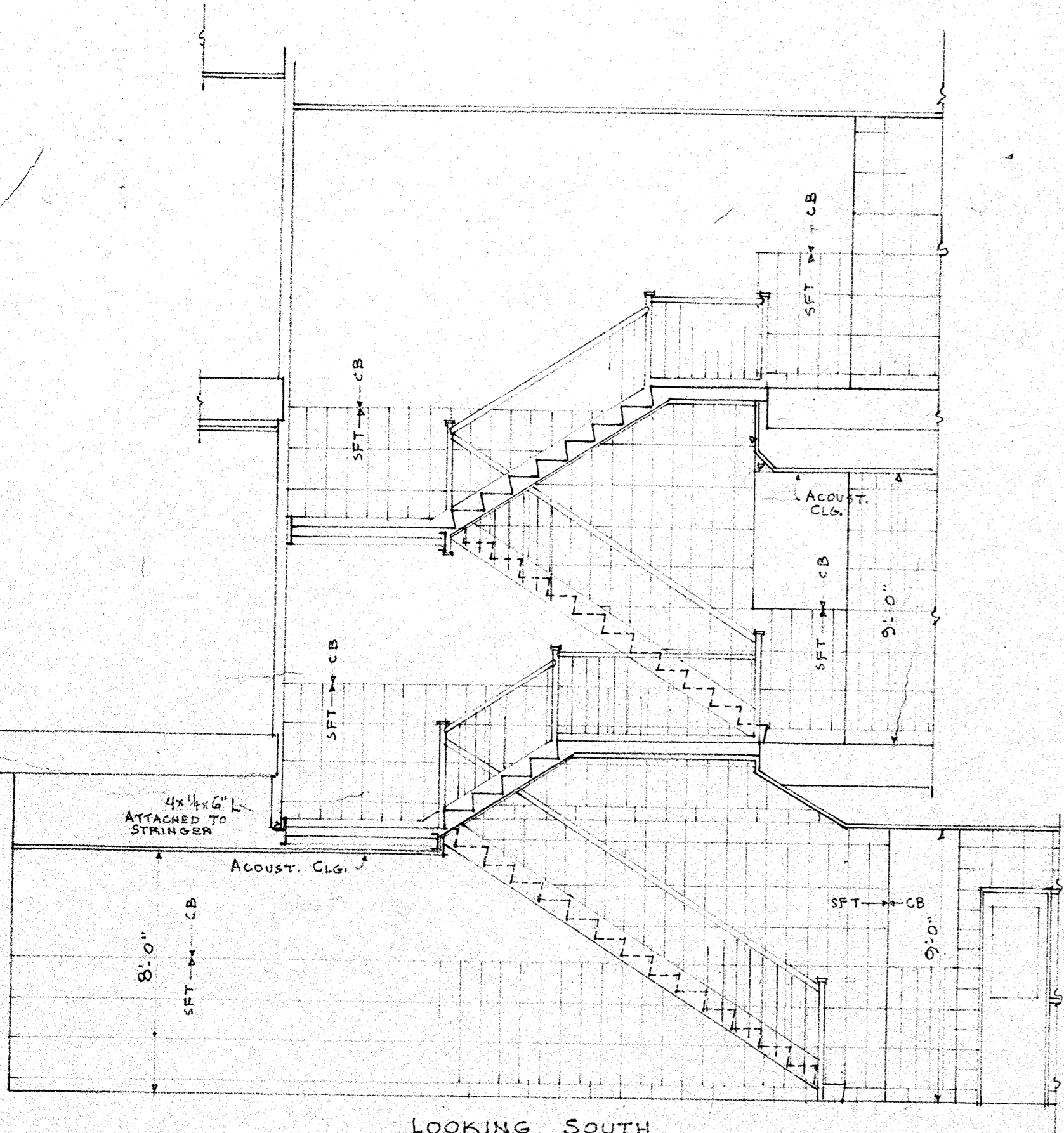
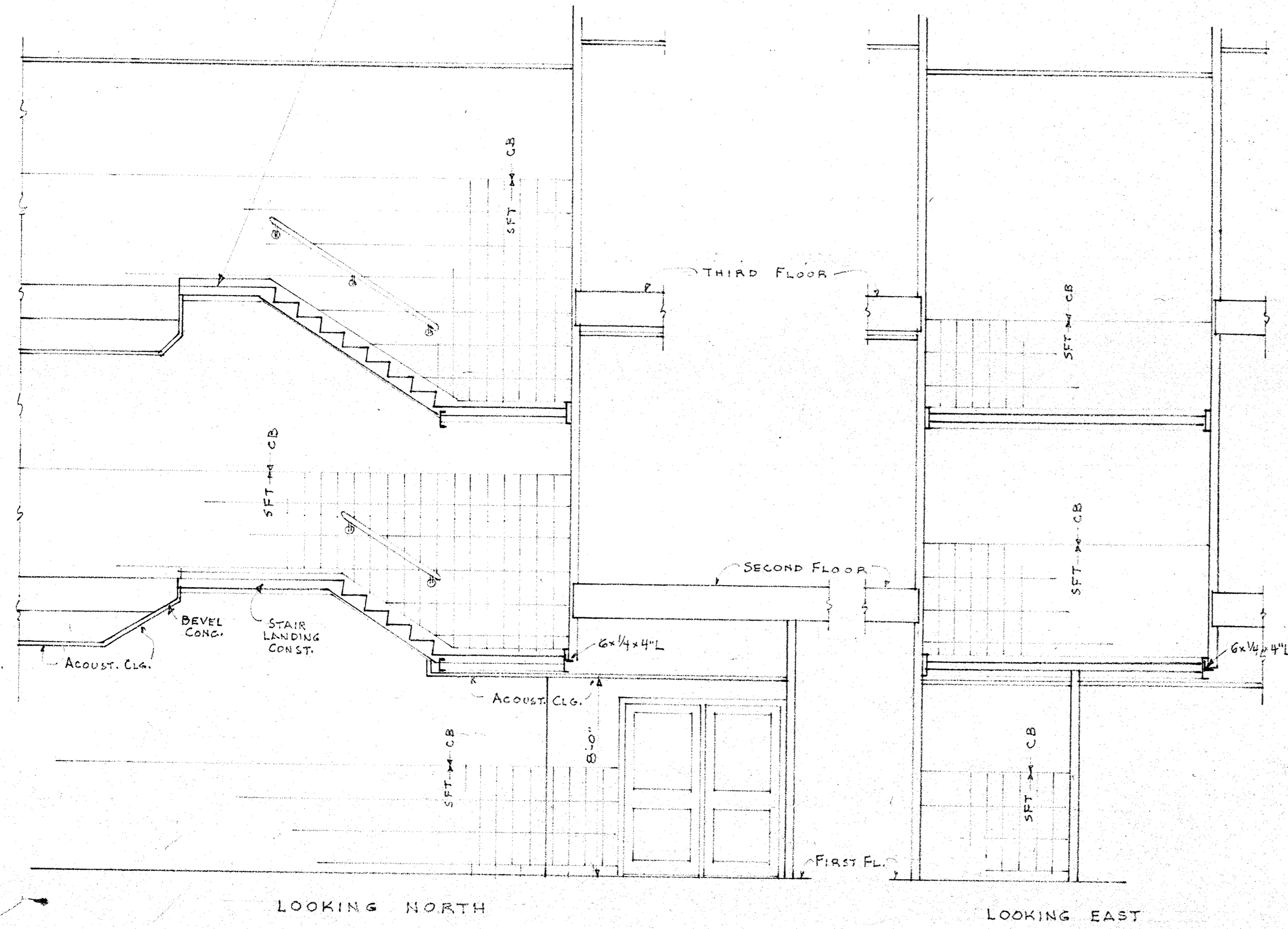
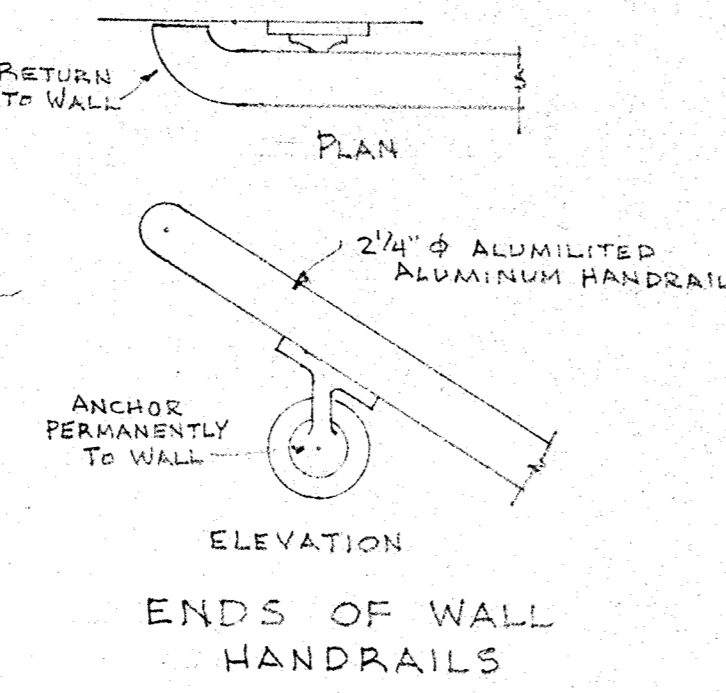
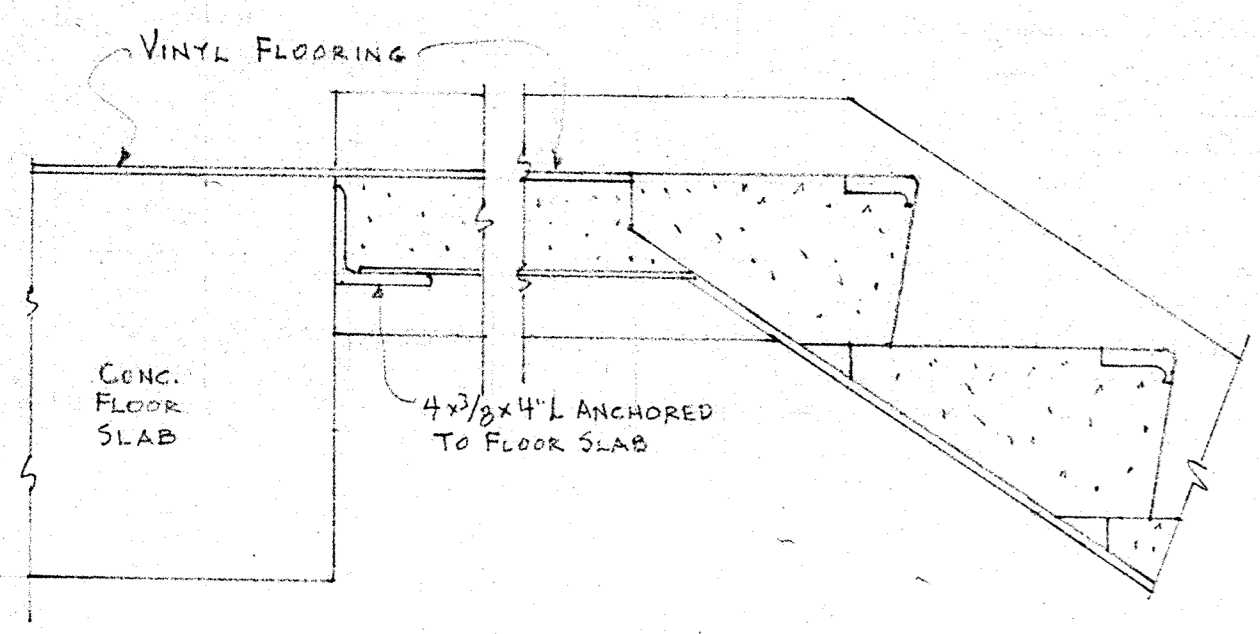
DOOR SCHEDULE

ALL DOORS 1 3/4" THICK UNLESS OTHERWISE NOTED. SEE DETAILS AND SPECIFICATIONS FOR VAULT DOOR, GATES IN CORRIDORS, GYMNASIUM DIVIDING DOOR, OVERHEAD DOORS, ELEVATOR AND DUMBWAITER HATCHWAY DOORS, ETC.

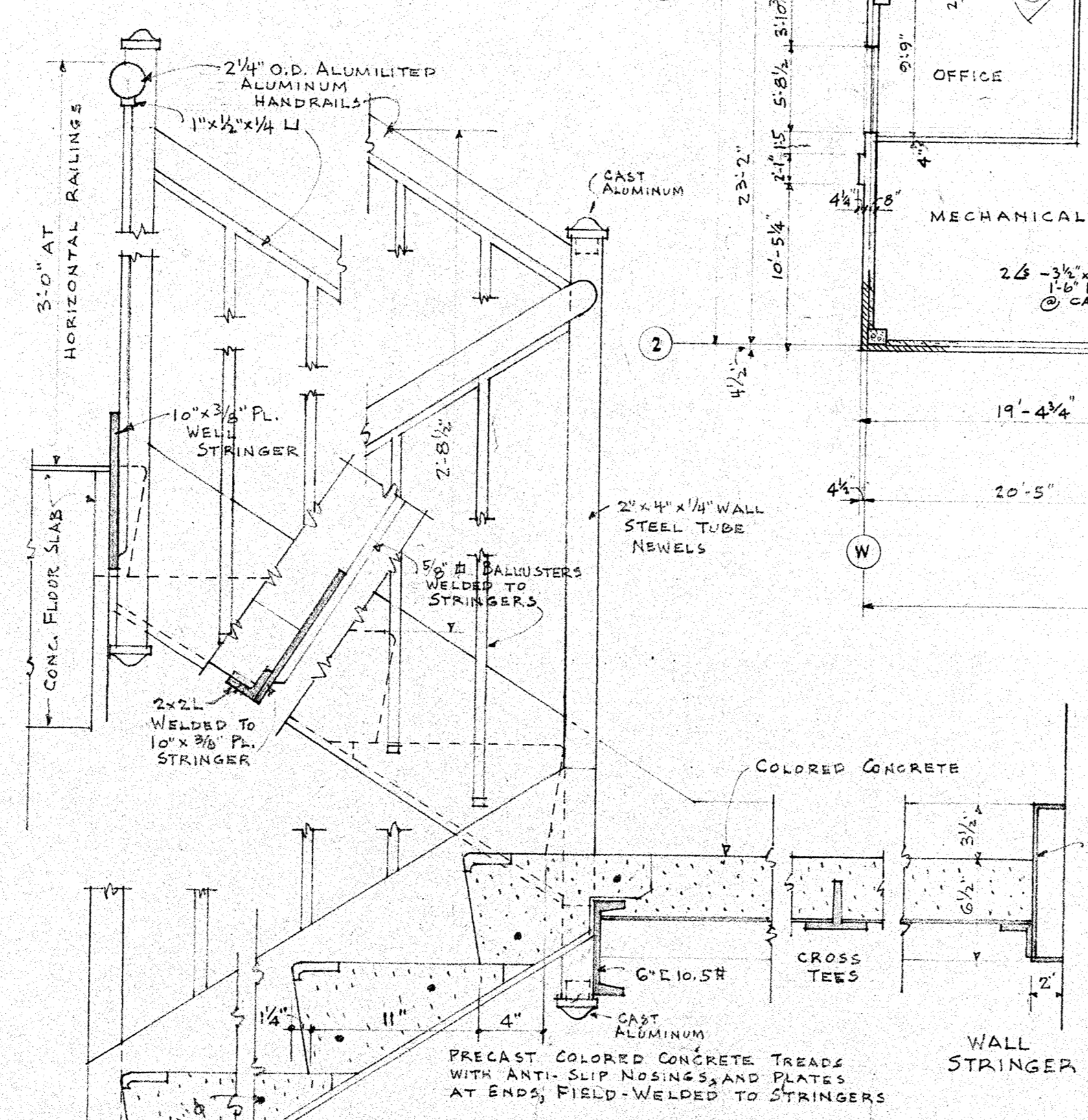
SHEET OF APPROVED VINYL HELD IN REBATS WITH HARDWOOD STRIP TO MAKE TWO CONTINUOUS CONTACTS AT FLOOR, JAMBS & HEAD



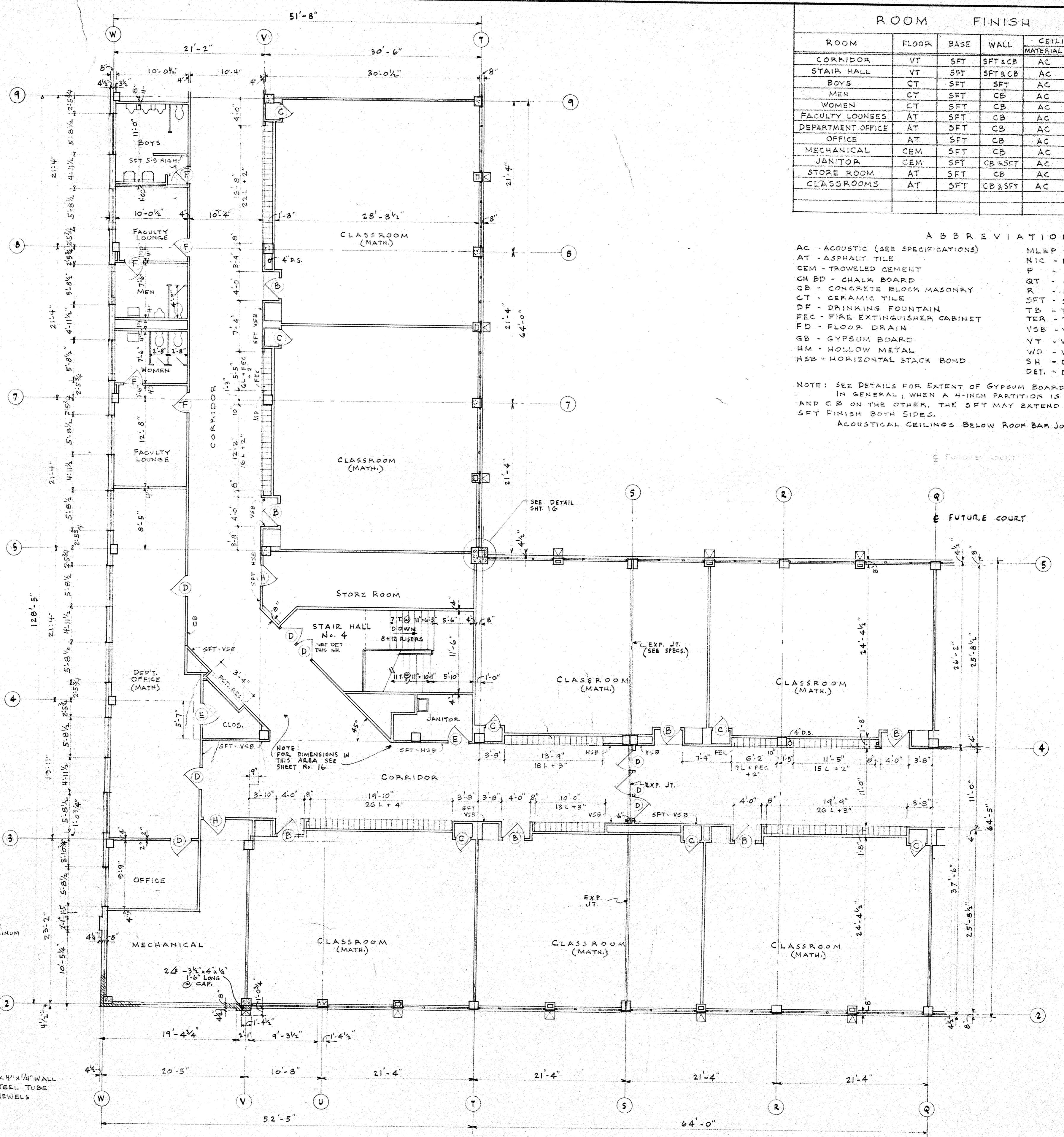
REVISIONS	THIRD FLOOR - PART 1	DATE
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT NO. 99 <td>4/16/53</td>	4/16/53
	FIGARD, BURT, WILKINSON, & WORTH ARCHITECTS 800 N. MICHIGAN AVE. CHICAGO <td>19</td>	19
		COMM.
		1118



LOOKING SOUTH
ELEVATIONS IN STAIR HALL NO. 4
SCALE 1/4" = 1'-0"



TYPICAL STAIR DETAILS
FOR STAIRS NO. 1, 2, 3, 4, 5, 6, 7, 10 AND 11
SCALE 1/4" = 1'-0"



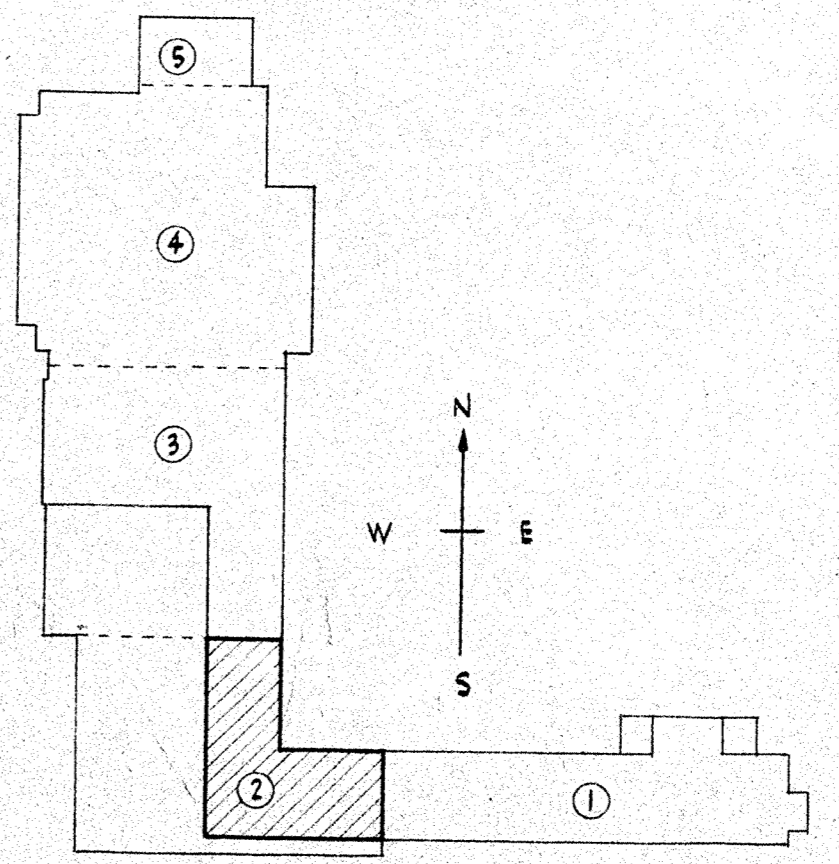
ROOM	FLOOR	BASE	WALL	CEILING	SCHEDULE	REMARKS
CORRIDOR	VT	SFT	SFT & CB	AC	9'-0"	SEE DETAILS
STAIR HALL	VT	SFT	SFT & CB	AC	9'-0"	SEE DETAILS
BOYS	CT	SFT	SFT	AC	9'-0"	MET. TOILET STALL
MEN	CT	SFT	SFT	AC	9'-0"	MET. TOILET STALL WITH DOOR
WOMEN	CT	SFT	SFT	AC	9'-0"	MET. TOILET STALLS WITH DOORS
FACULTY LOUNGE	AT	SFT	CB	AC	9'-0"	
DEPARTMENT OFFICE	AT	SFT	CB	AC	9'-0"	
OFFICE	AT	SFT	CB	AC	9'-0"	
MECHANICAL	CEM	SFT	CB	AC	9'-0"	
JANITOR	CEM	SFT	CB & SFT	AC	9'-0"	
STORE ROOM	AT	SFT	CB	AC	10'-0"	
CLASSROOMS	AT	SFT	CB & SFT	AC	10'-0"	SEE DETAILS

ABBREVIATIONS

AC - ACOUSTIC (SEE SPECIFICATIONS)
 AT - ASPHALT TILE
 CEM - TRAVELER CEMENT
 CH BD - CHALK BOARD
 CB - CONCRETE BLOCK MASONRY
 CT - CERAMIC TILE
 DF - DRINKING FOUNTAIN
 FEC - FIRE EXTINGUISHER CABINET
 FD - FLOOR DRAIN
 GB - GYPSUM BOARD
 HM - HOLLOW METAL
 HSB - HORIZONTAL STACK BOND

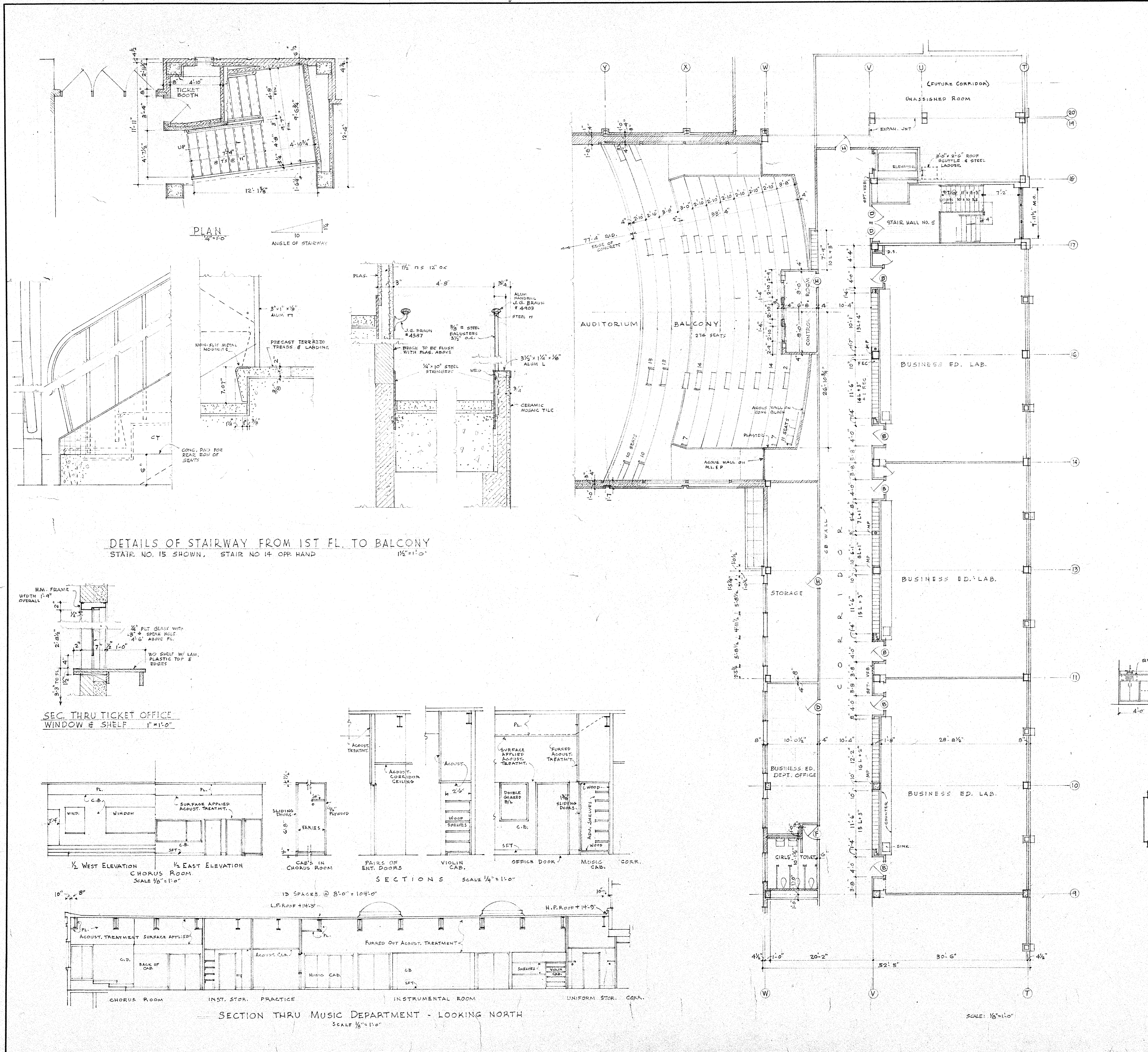
MLSP - METAL LATH & PLASTER
 NIC - NOT IN CONTRACT
 P - PLASTER
 QT - QUARRY TILE
 R - RUBBER
 SFT - STRUCTURAL FACING TILE
 TB - TAGBOARD
 TER - TERRAZZO
 VSB - VERTICAL STACK BOND
 VT - VINYL TILE (SEE SPECIFICATIONS)
 WD - WOOD
 SH - DRAWING SHEET
 DET. - DETAIL

NOTE: SEE DETAILS FOR EXTENT OF GYPSUM BOARD.
 IN GENERAL, WHEN A 4-INCH PARTITION IS SCHEDULED FOR SFT ON ONE SIDE AND CB ON THE OTHER, THE SFT MAY EXTEND THROUGH THE PARTITION, SHOWING SFT FINISH BOTH SIDES.
 ACOUSTICAL CEILINGS BELOW ROOF BARR JOISTS SHALL HAVE 1 HOUR RATING.



REVISIONS	THIRD FLOOR - PART 2	DATE
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT No. 99 <td>4/15/63 </td>	4/15/63
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 820 N. MICHIGAN AVE. CHICAGO <td>SHEET 20</td>	SHEET 20
		COMM. 1118

ROOM	FLOOR	BASE	WALLS	Ceilings	REMARKS
AUDITORIUM BALCONY	CEM		P		SET 50' 2" FOR WALL FINISHES
CONTROL ROOM	AT	SFT	CB	AC	4'-0"
STORAGE ROOM	CEM	SFT	CB	AC	9'-0"
BUSINESS EDUCATION DEPT. OFFICE	AT	SFT	CB	AC	4'-0"
GIRLS TOILET	GT	SFT	SFT	AC	4'-0"
STORAGE ROOM	CEM	SFT	CB	AC	4'-0"
STAIR HALL NO. 2	VT	SFT	CB	AC	9'-0"
BUSINESS ED. LAB.	AT	SFT	CB	AC	10'-0"
CORRIDOR	VT	SFT	CB	AC	4'-0"
UNASSIGNED	CEM	SFT	CB	EXPOSED	



REVISIONS	THIRD FLOOR - PART 3	DATE
		4/15/63
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT NO. 99	SHEET 21
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 222 N. MICHIGAN AVE. CHICAGO	CON. 1118

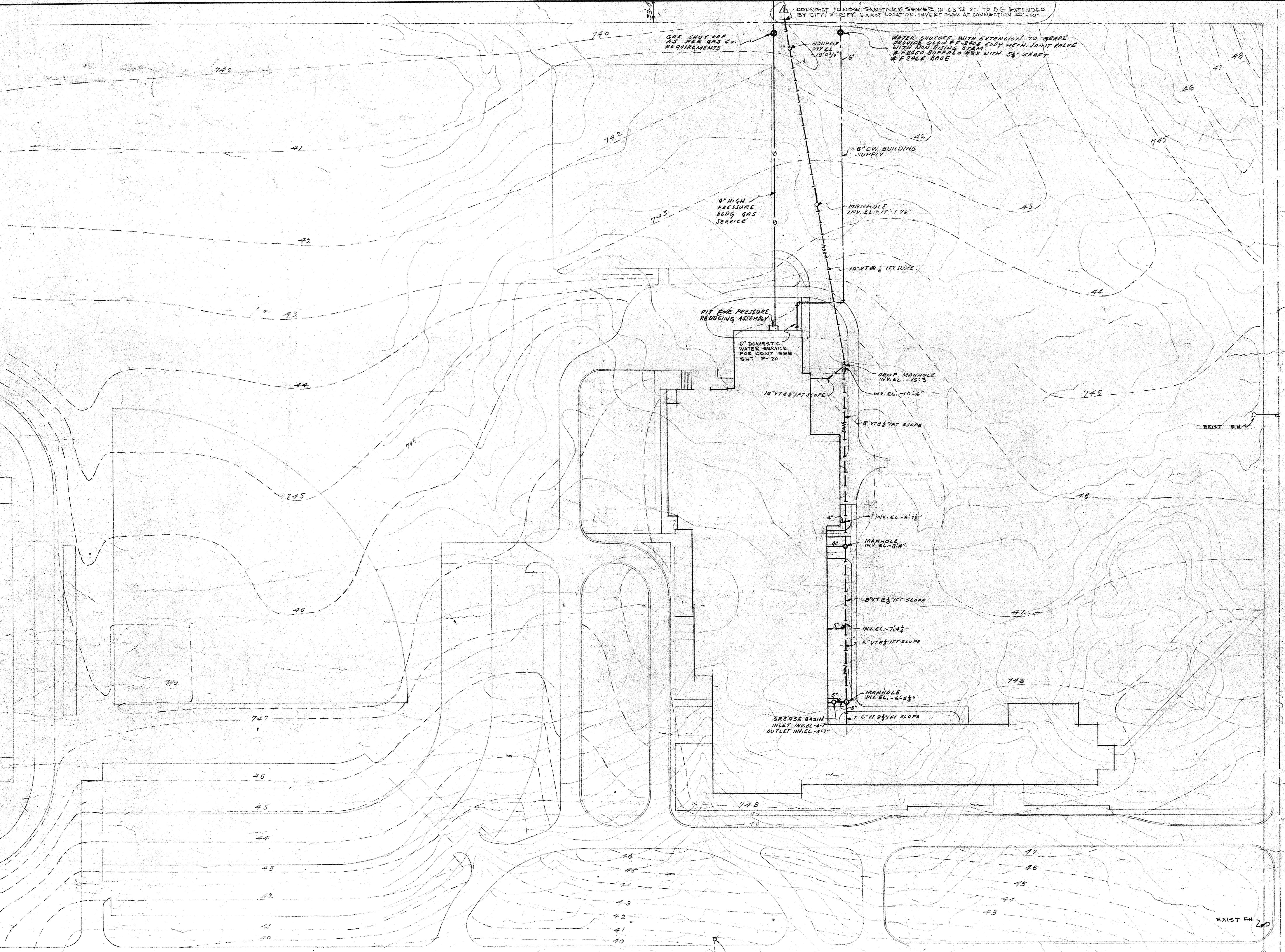
EXISTING GAS MAIN LOCATION TO BE VERIFIED

12" WATER MAIN EXTENDED IN 63 RD STREET BY VILLAGE EXACT LOCATION TO BE VERIFIED

CONNECT TO NEW SANITARY SEWER IN 63 RD ST. TO BE EXTENDED BY CITY. VERIFY EXACT LOCATION. INVERT 6.5V AT CONNECTION 20'-10"

GAS SHUT OFF AS PER GAS CO. REQUIREMENTS

WATER SHUTOFF WITH EXTENSION TO SEWER PROVIDED. GLOW # 2465 EMB. MECH. JOINT INLVG WITH 1" DIA. BRASS SIZING # 2460 BUILDING SYSTEM WITH 5/8" SHIRT # 2465 BASE



NOTE:

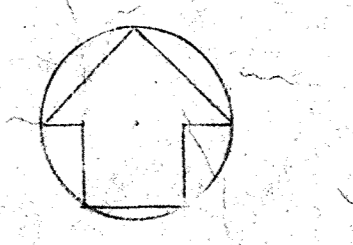
- 0'-0" F.R. ELEV. = 749.0 GRADE ELEV.
- ALL SANITARY SEWERS & STORM SEWERS ON SHEET #2 TO BE TILE FROM A POINT 5'-0" BEYOND BLDG. FOUNDATION WALL. MINIMUM SIZE OF TILE BRANCHES TO BE 6".

NOTE: FOR STORM SEWERS SEE GENERAL SITE PLAN SHEET NO. 2

PLUMBING HEATING VENTILATION

REVISIONS	DATE
7-1-G3	6-18-69

PLOT PLAN	
DOWNS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT NO. 99	
ARCHITECTS	COMM.
FUGARD, BURT, WILKINSON, & ORTH	H18
140 N. MICHIGAN AVE. CHICAGO	
TRACED BY	



SCALE 1" = 30'-0"

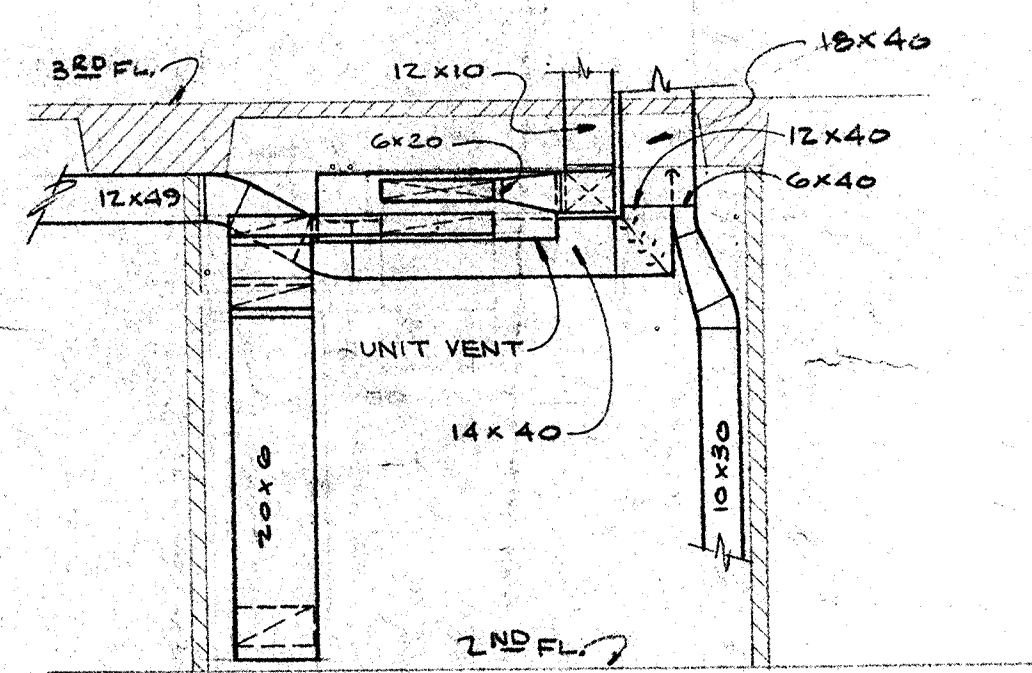
EXIST. 8" WATER MAIN

EXIST. F.M. 2

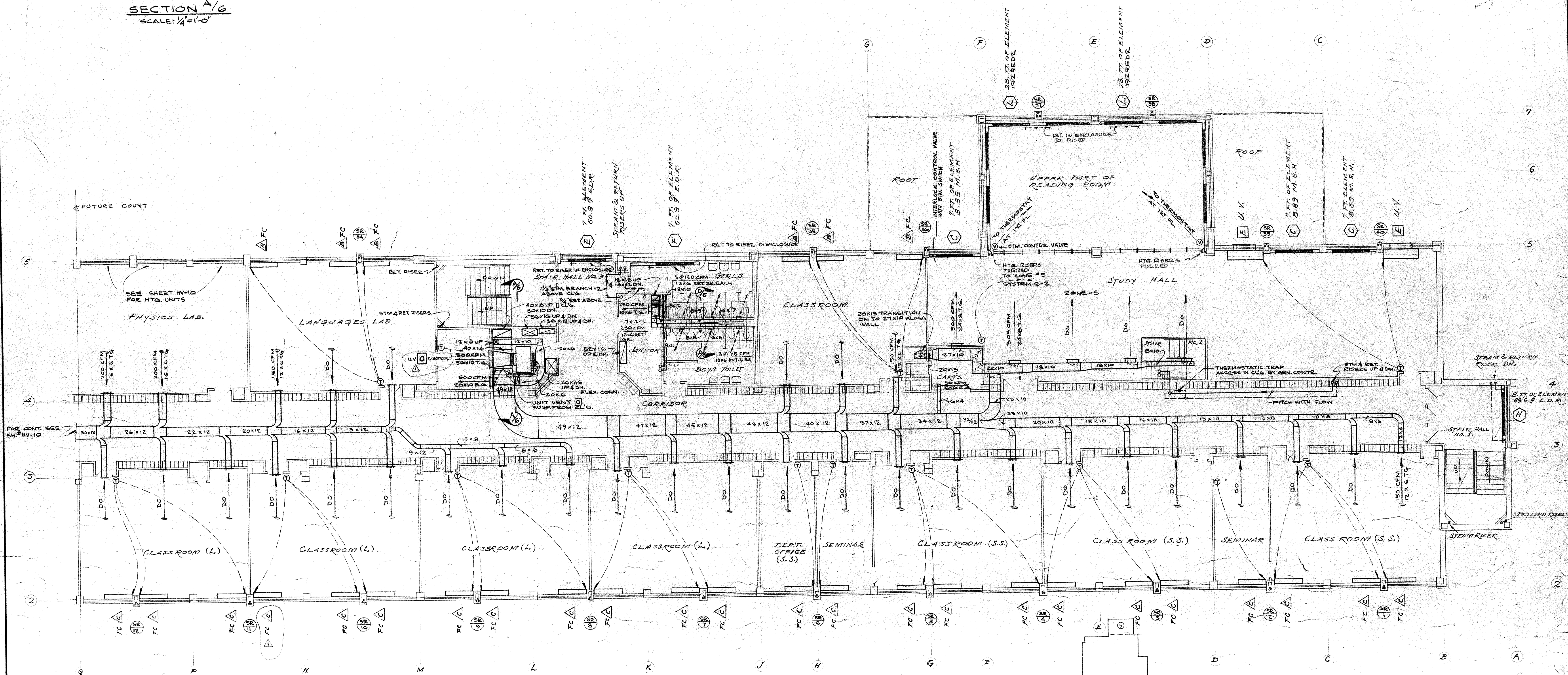
EXIST. F.M. 2

FUTURE FIRE HYDRANT BY CITY

FUTURE WATER MAIN BY CITY



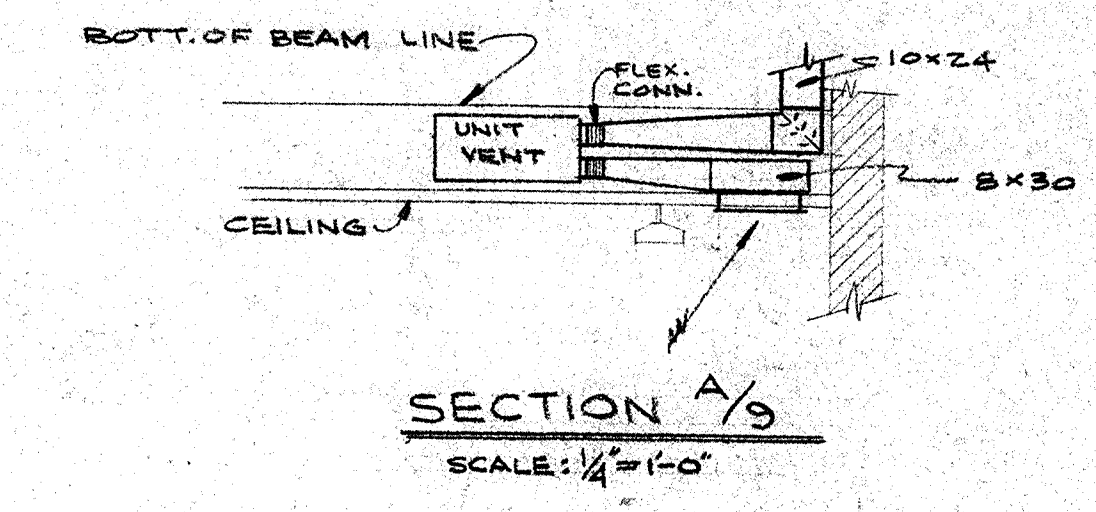
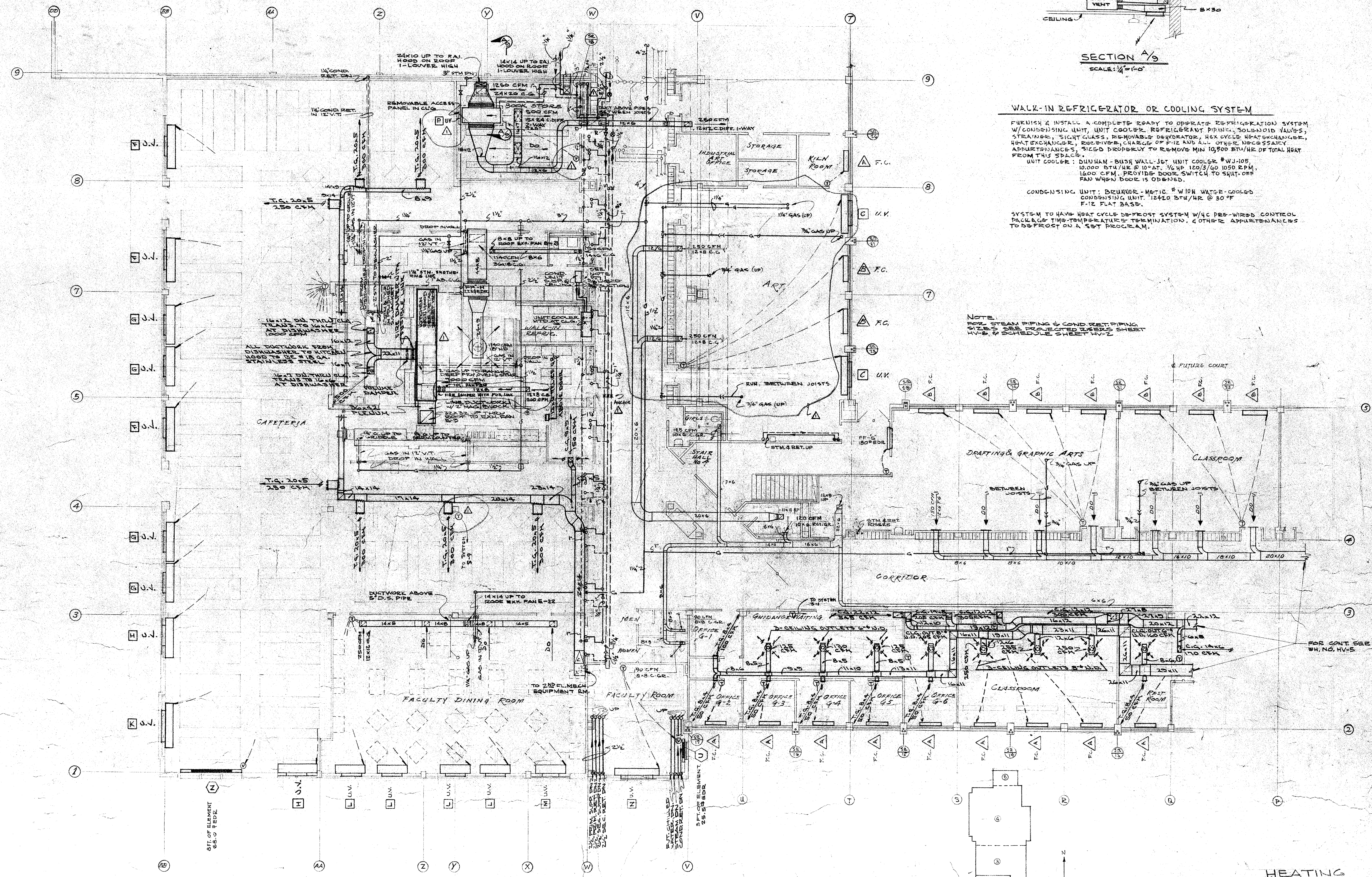
SECTION A/G
SCALE: 1/4"=1'-0"



SECOND FLOOR PLAN
SCALE 1/8"=1'-0"

HEATING
VENTILATION

REVISIONS	SECOND FLOOR PART 1	DATE
Δ 7-1-62	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT NO. 99	6-15-62
		SHEET HV 6
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS NEILER, RICH & BLAKEN ENGINEERS	COMM. 1118



WALK-IN REFRIGERATOR OR COOLING SYSTEM

FURNISH & INSTALL A COMPLETE READY TO OPERATE REFRIGERATION SYSTEM W/ CONDENSING UNIT, UNIT COOLER, REFRIGERANT PIPING, SOLID STATE VALVES, STRAINERS, SIGHT GLASS, REMOVABLE DEHYDRATOR, HEX CYCLE HEAT EXCHANGER, HEAT EXCHANGER, RECEIVER, CHARGE OF R-12 AND ALL OTHER NECESSARY APPURTENANCES, SIZED PROPERLY TO REMOVE MIN 10,500 BTU/HR OF TOTAL HEAT FROM THIS SPACE.

UNIT COOLER: DUNHAM-BUSH WALL-JET UNIT COOLER #WJ-105, 10,000 BTU/HR @ 10°AT, 1/2 HP, 120/3/60 1050 RPM, 1500 CFM, REFRIG. DOOR, SWITCH TO SHUT-OFF FAN WHEN DOOR IS OPENED.

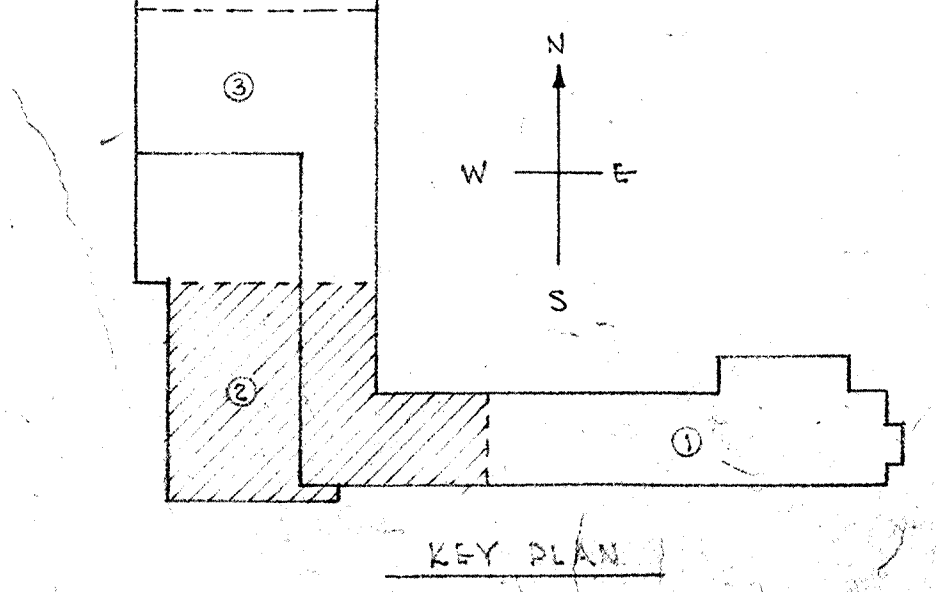
CONDENSING UNIT: BUNNEN-METIC #W18 WITH WATER-COOLED CONDENSING UNIT, 12420 BTU/HR @ 30°AT, F-12 FLAT BASE.

SYSTEM TO HAVE HEAT CYCLE DE-FROST SYSTEM W/4 PRE-WIRED CONTROL PACKAGE TIME-TEMPERATURE TERMINATION, & OTHER APPURTENANCES TO DE-FROST ON A SET PROGRAM.

NOTE: SEE STEAM PIPING & COND. RET. PIPING SCHEDULE SHEET HV-2 & SCHEDULE SHEET HV-2

FIRST FLOOR PLAN

SCALE 1/8" = 1'-0"

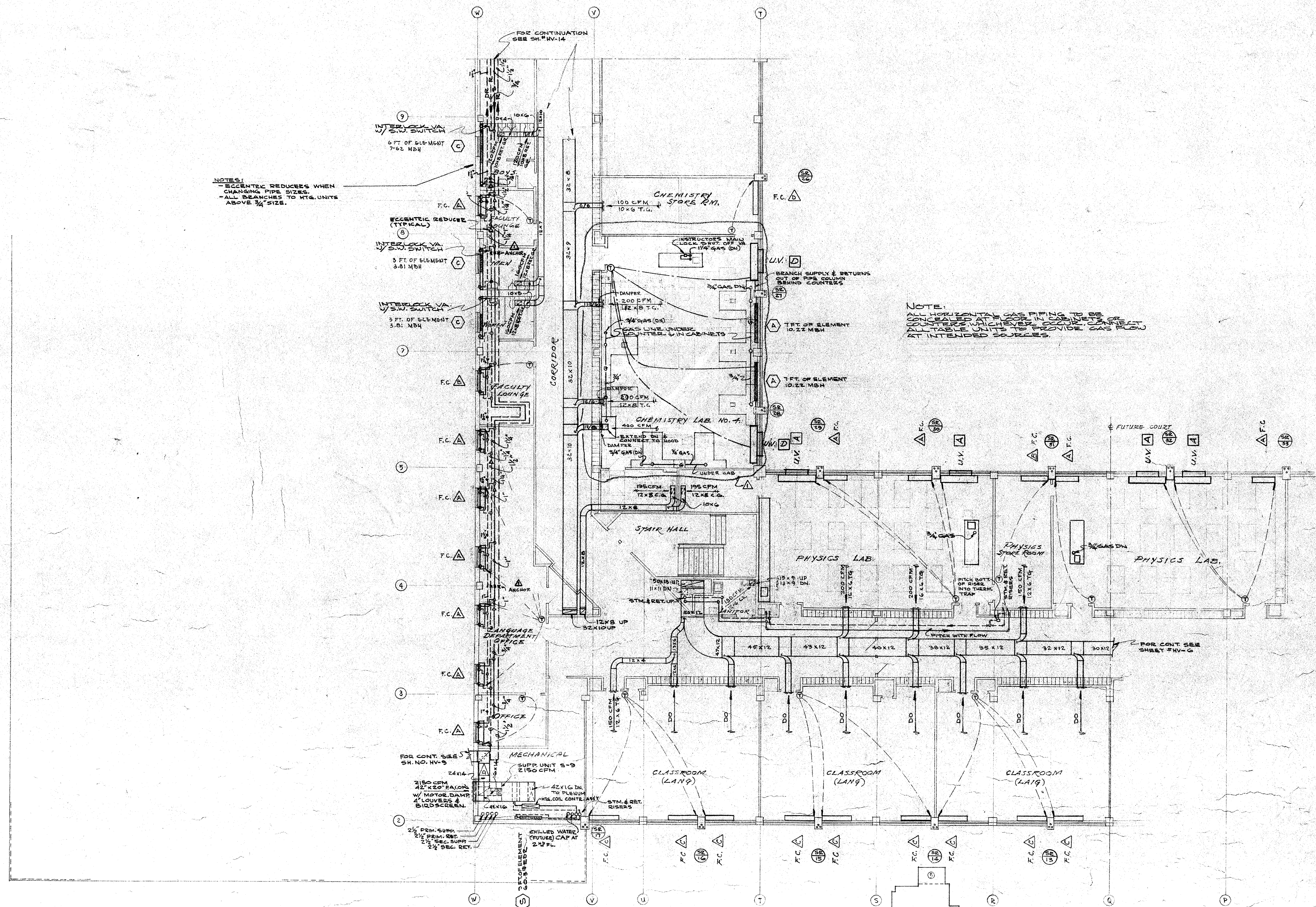


HEATING VENTILATION

REVISIONS	FIRST FLOOR PART 2	DATE
1		7-1-63
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9		

DOWNERS GROVE
 SOUTH HIGH SCHOOL
 SCHOOL DISTRICT NO. 99
 FUGARD, BURT, WILKINSON, & ORTH
 ARCHITECTS
 122 N. MICHIGAN AVE.
 CHICAGO
 NILES E. RICH & BLADEN ENGINEERS
 431 S. DEARBORN CHICAGO, ILL.

SHEET
 HV
 9
 COMB.
 1118



NOTES:
 - ECCENTRIC REDUCES WHEN CHANGING PIPE SIZES.
 - ALL BRANCHES TO HTG. UNITS ABOVE 3/4" SIZE.

NOTE:
 ALL HORIZONTAL GAS PIPING TO BE CONCEALED AT FLOOR FINISH TO BE COVERED WITH CHEVON PROTECTIVE COATING UNLESS OTHERWISE NOTED AT INTENDED LOCATIONS.

SECOND FLOOR PLAN

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

HEATING VENTILATION

REVISIONS	DATE
	6-15-69

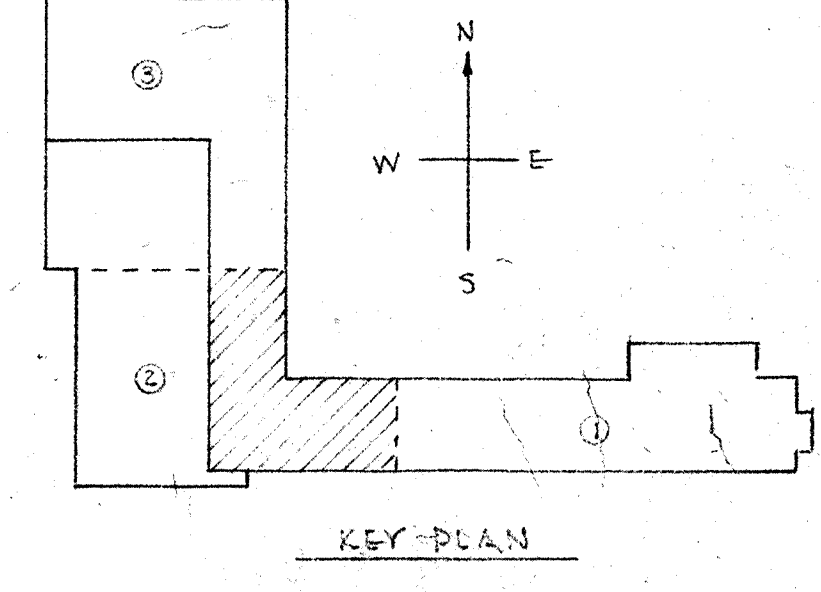
SECOND FLOOR PART - 2

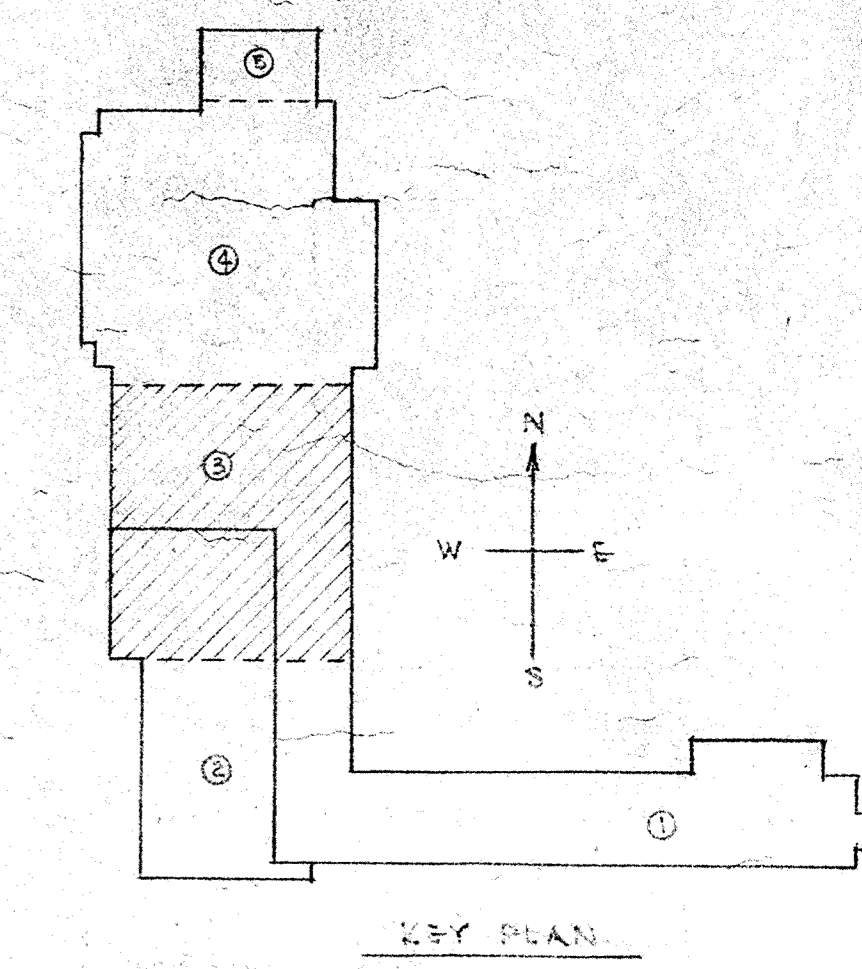
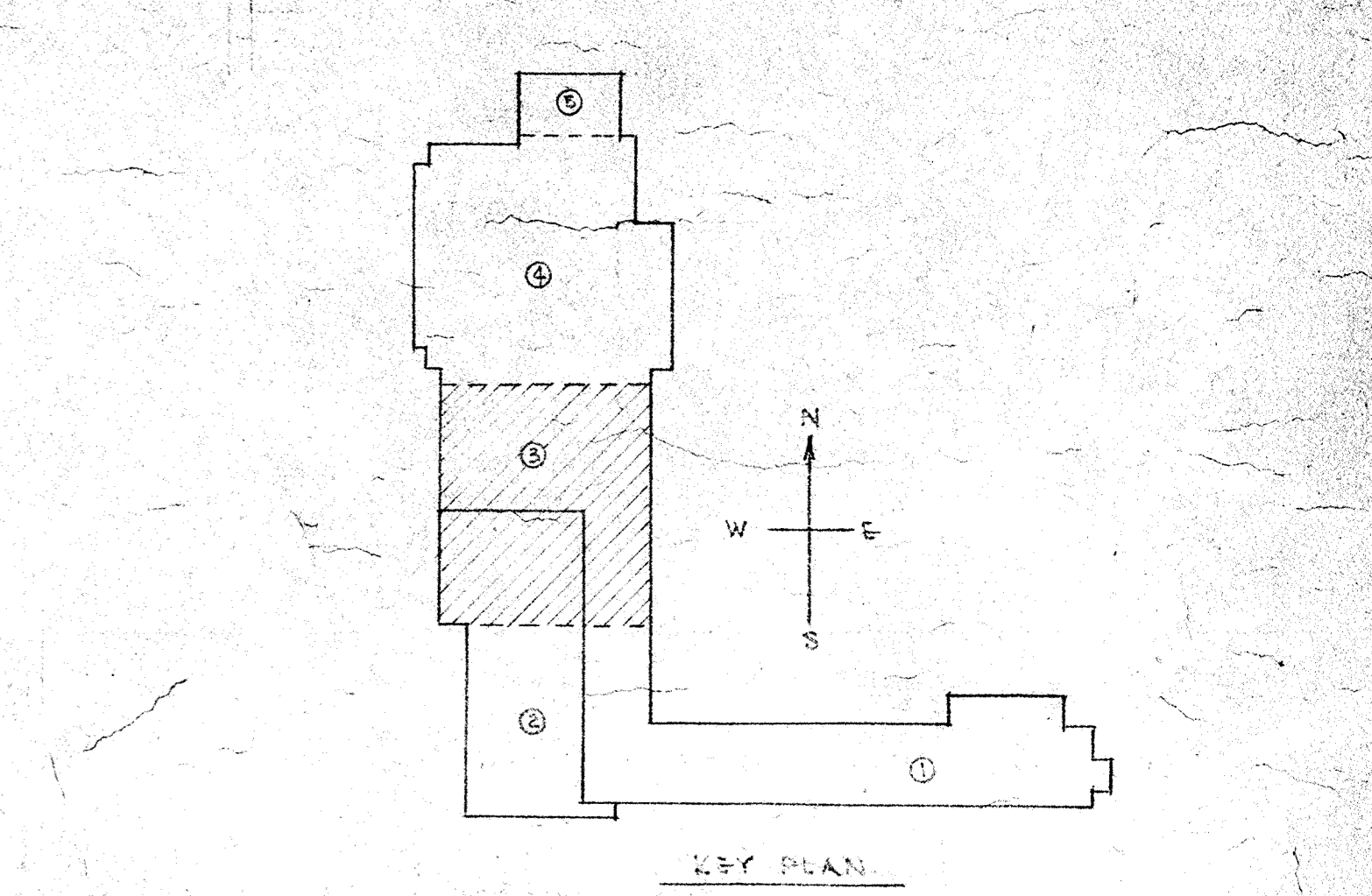
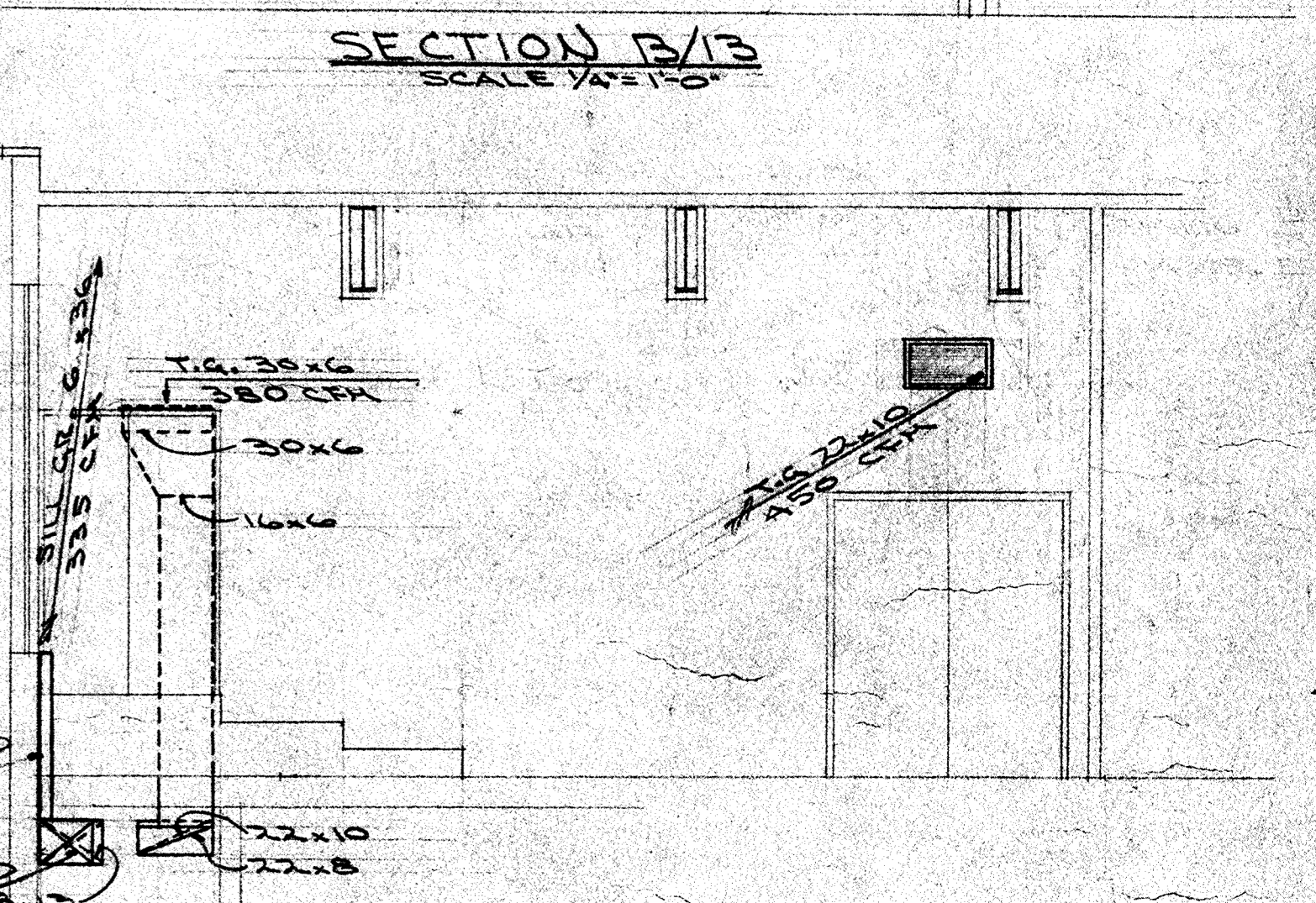
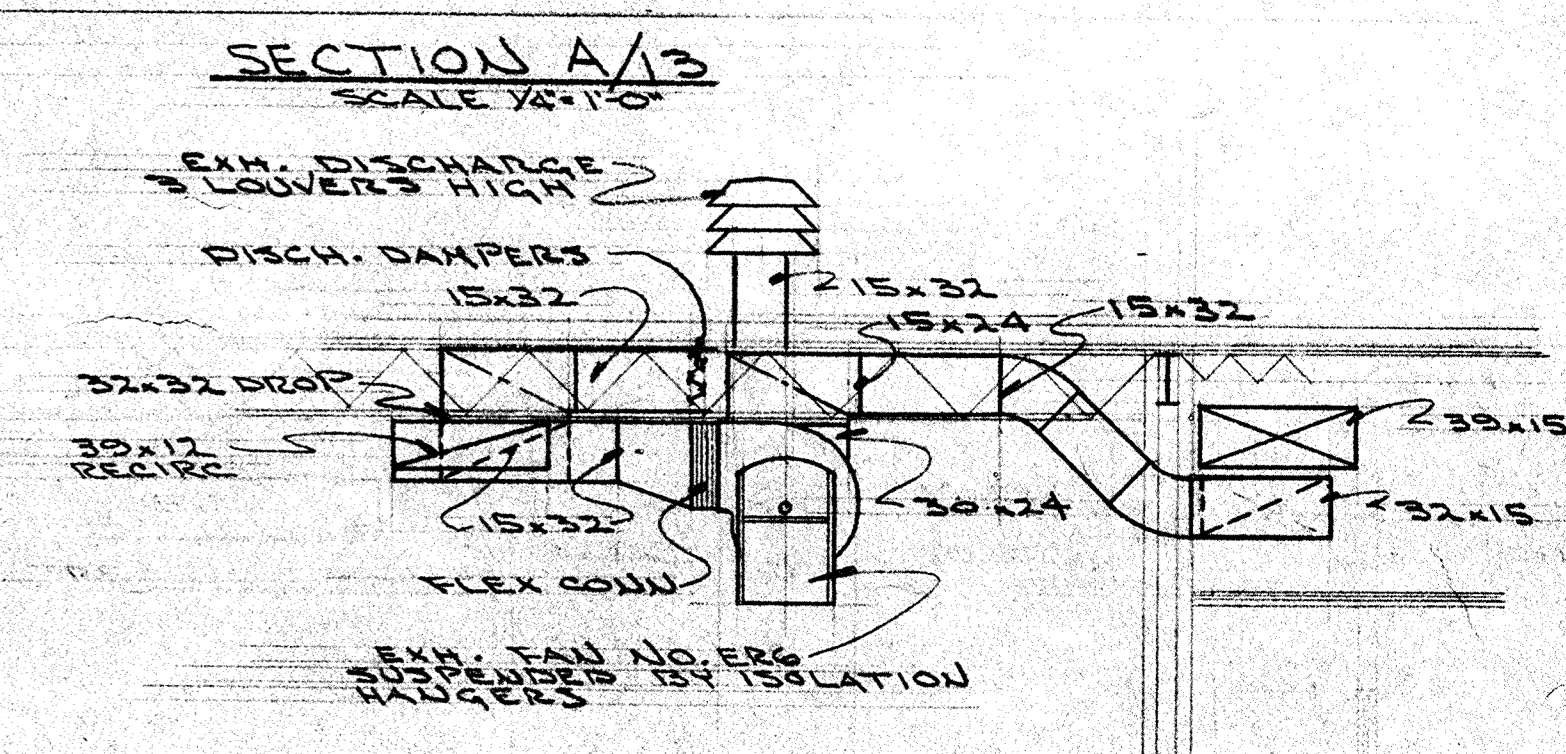
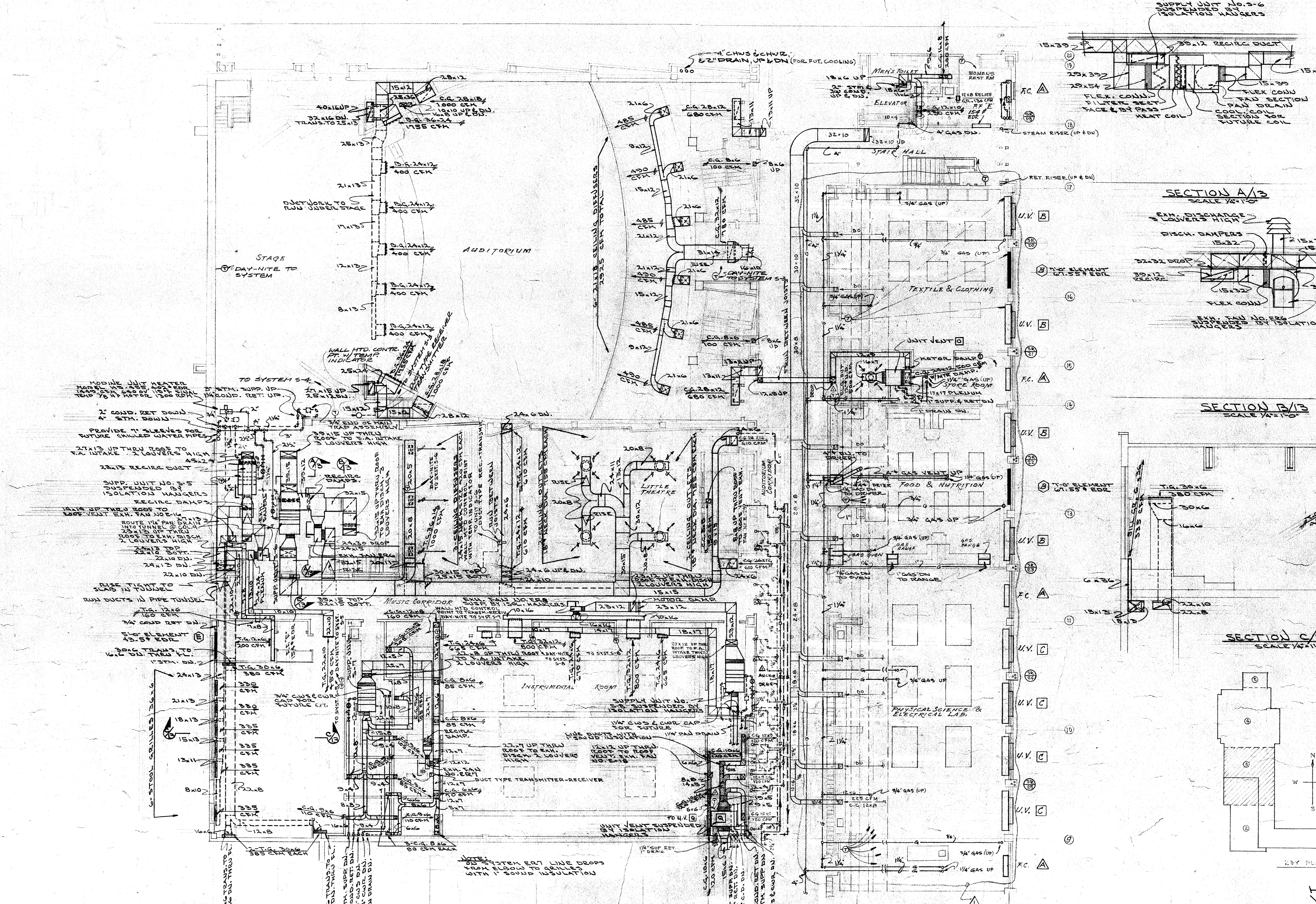
DOWNERS GROVE
 SOUTH HIGH SCHOOL
 SCHOOL DISTRICT NO. 99

FUGARD, BURT, WILKINSON, & ORTH
 ARCHITECTS
 850 N. MICHIGAN AVE. CHICAGO
 MILLER, RICH & SLADEN ENGINEERS
 431 S. DEARBORN CHICAGO, ILL.

SHEET
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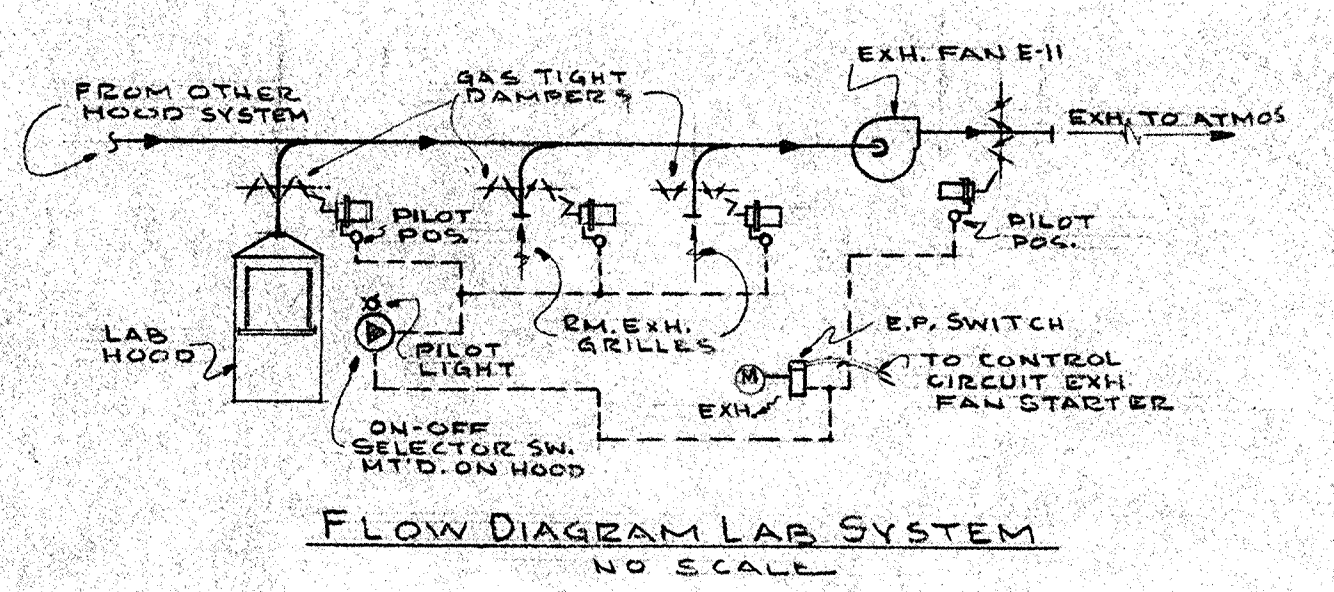
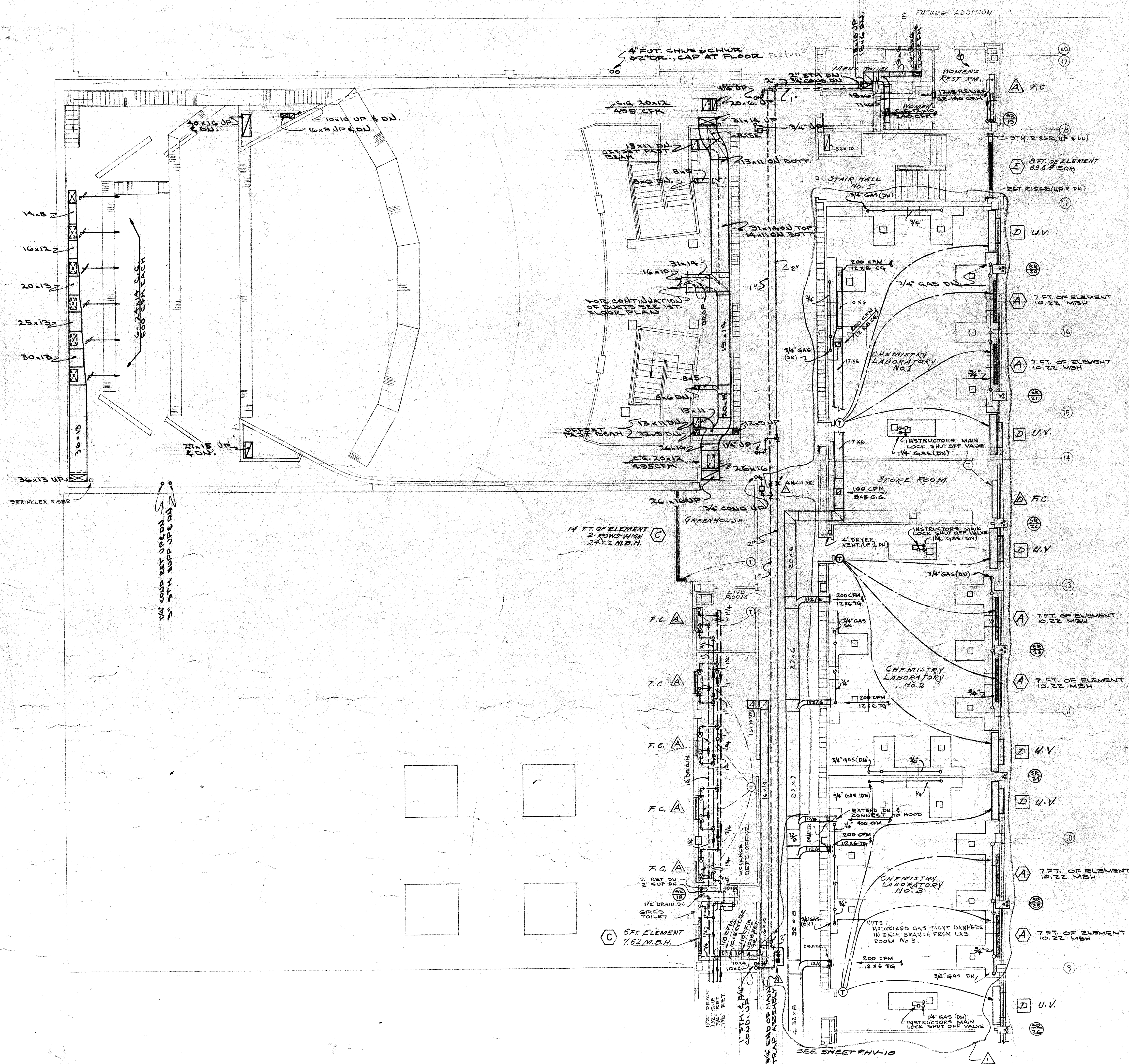




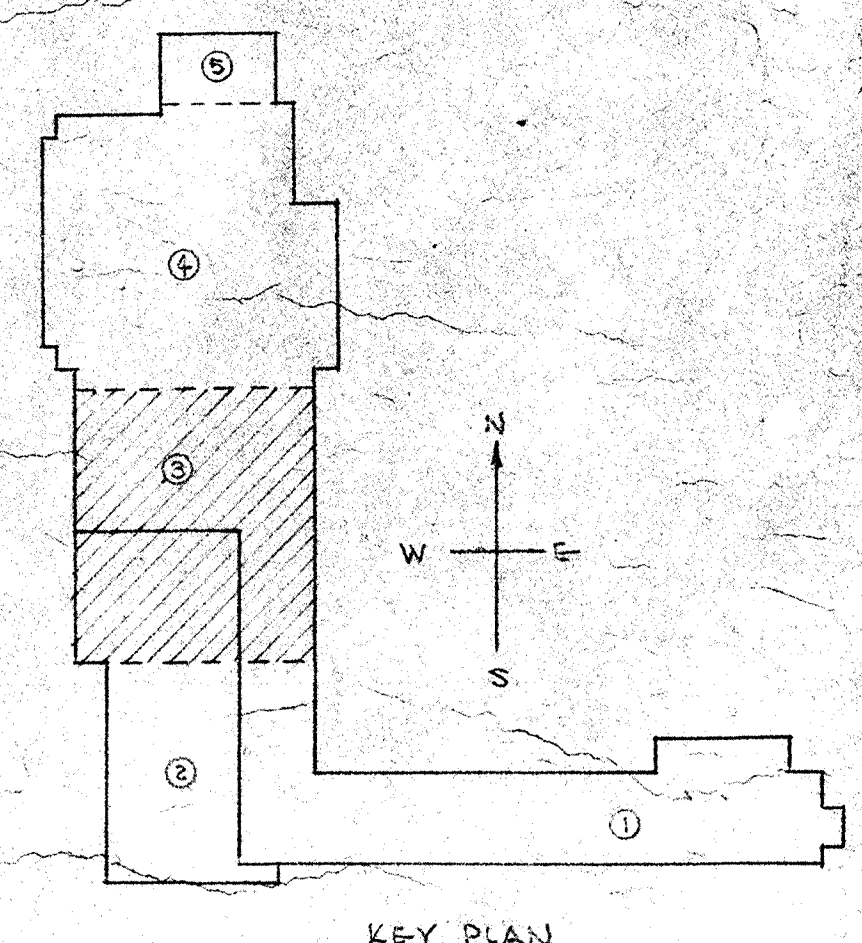
HEATING VENTILATION

REVISIONS	FIRST FLOOR PART 3	DATE
A 7-1-63		6-15-63
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT No. 99	SHEET HV 13
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 222 N. MICHIGAN AVE. CHICAGO	CONN. 1118
	NEILER, RICH & BLADEN ENGINEERS 431 S. DEARBORN CHICAGO ILL.	

SCALE 1/8" = 1'-0"



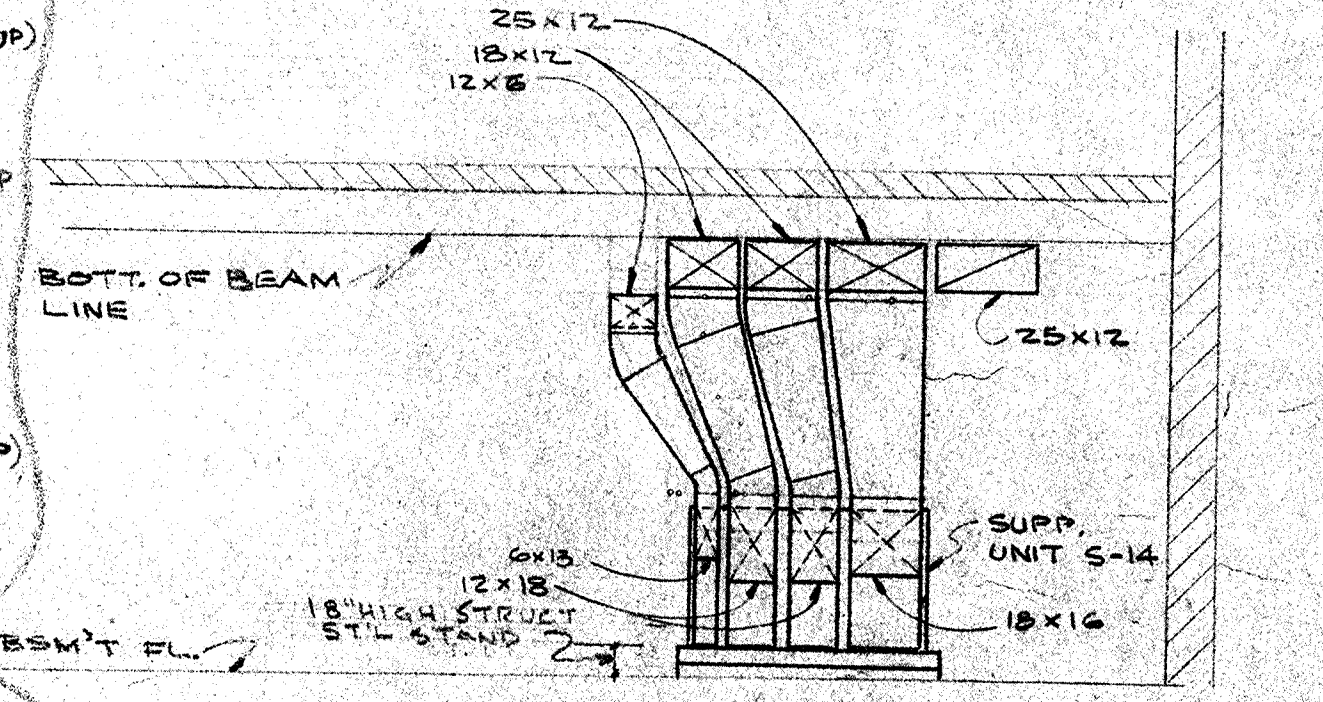
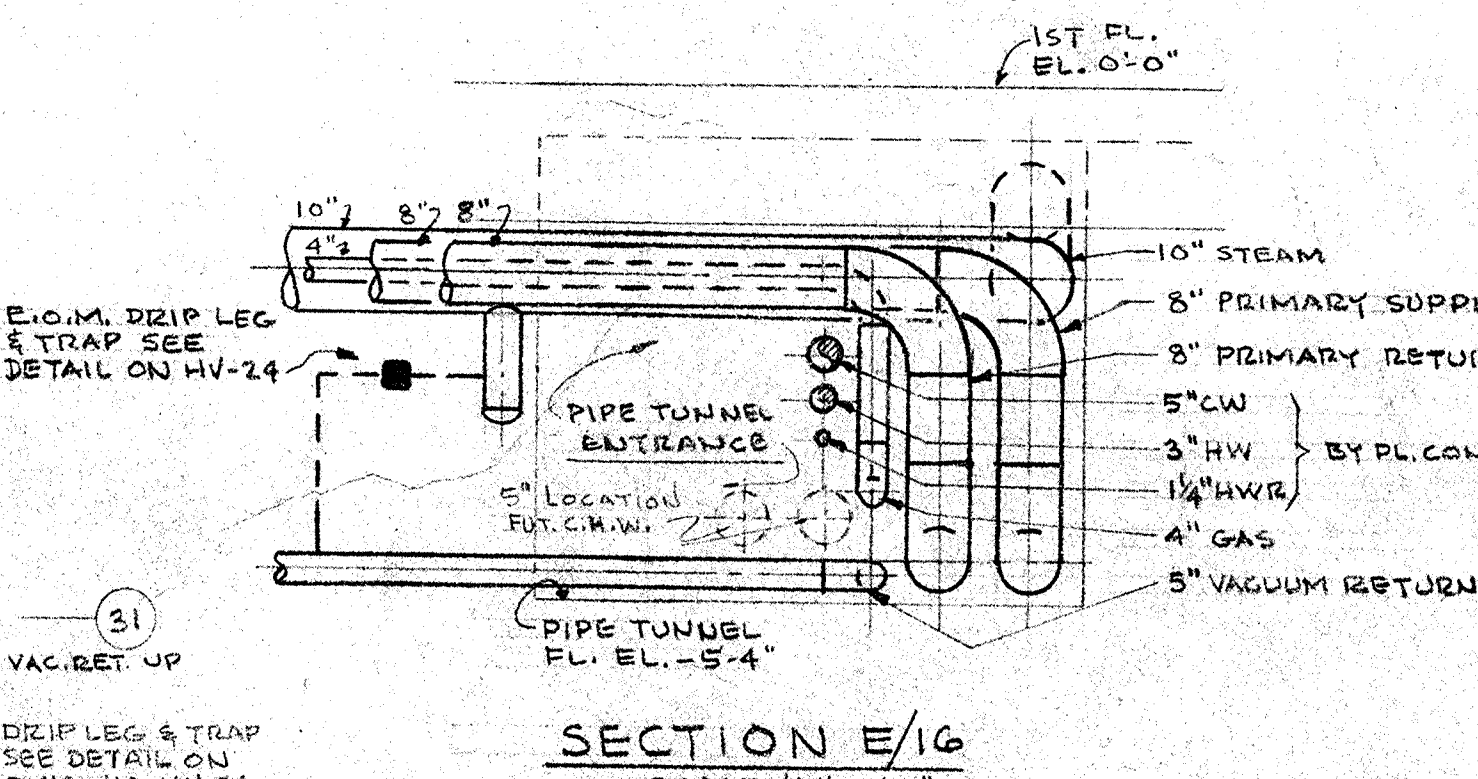
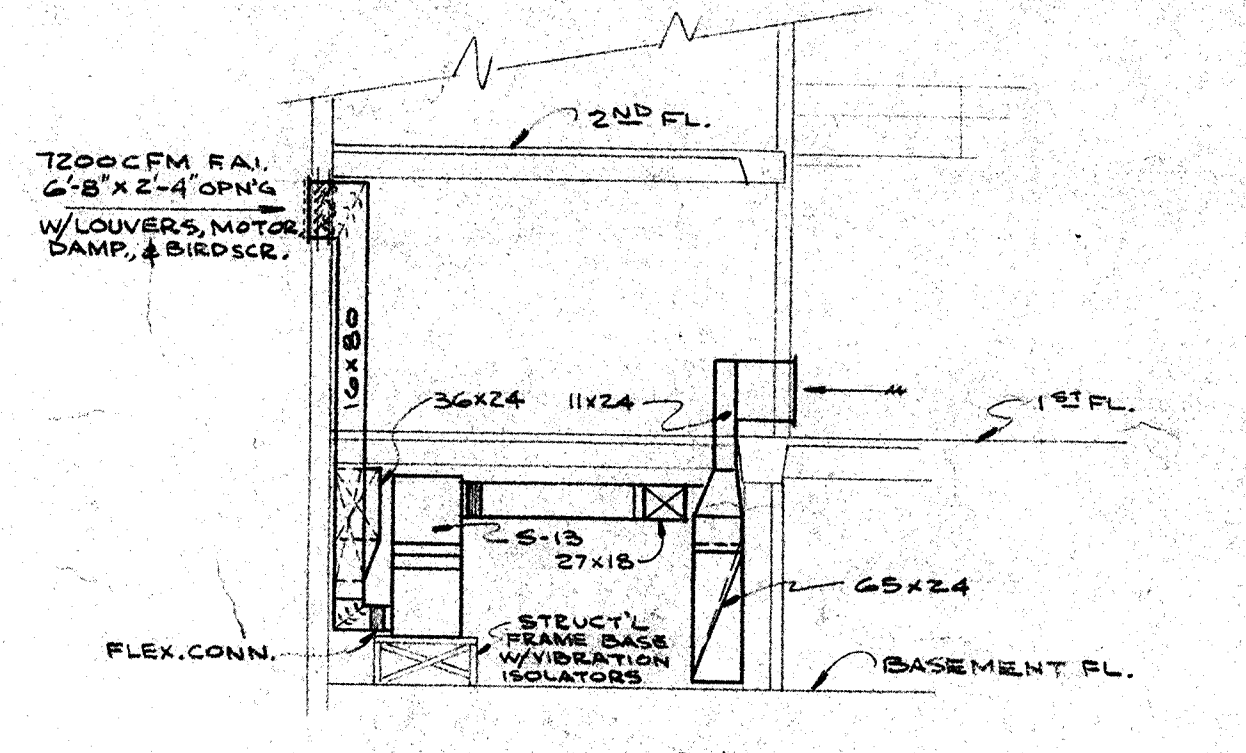
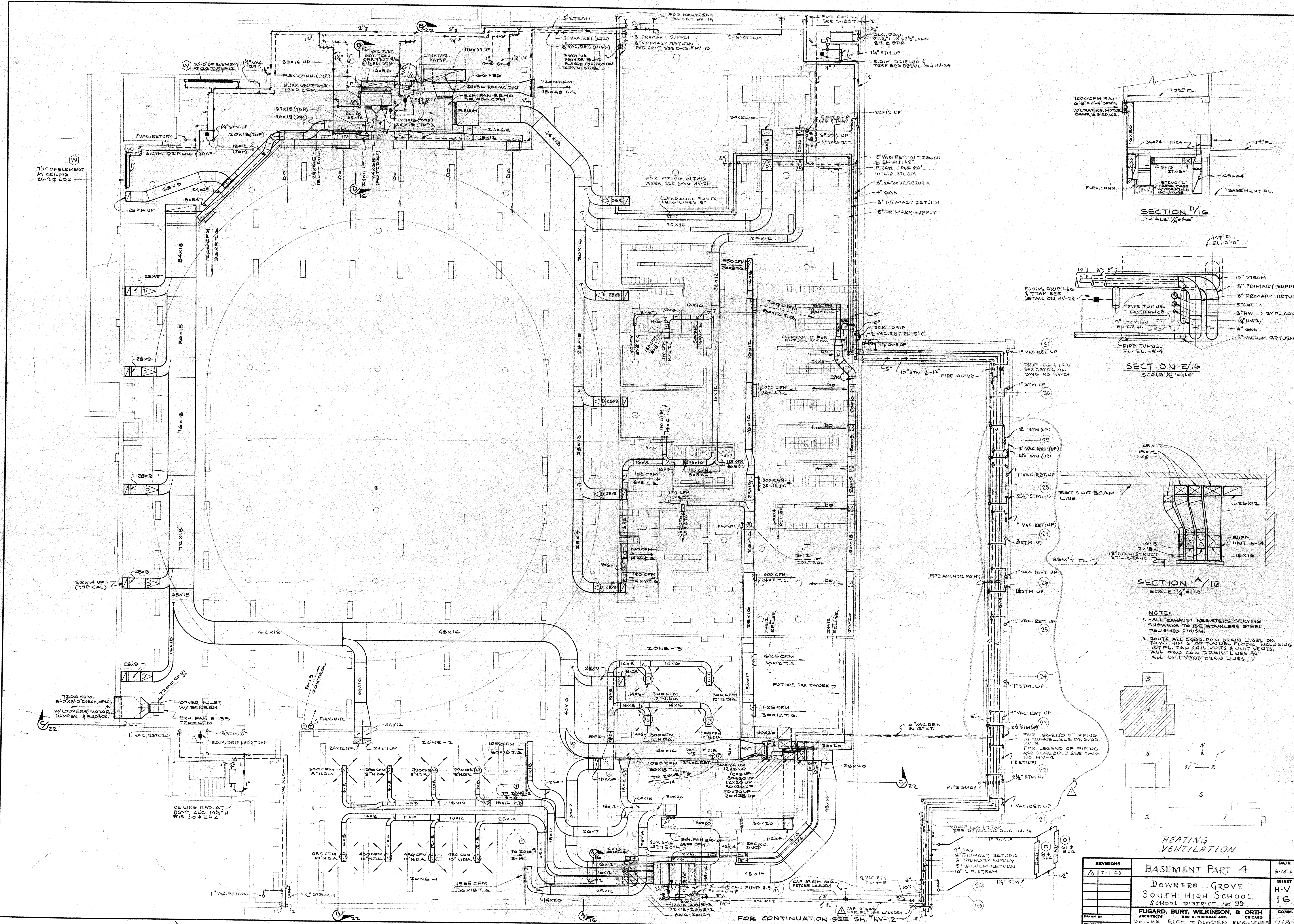
NOTE: ALL HORIZONTAL GAS PIPING TO BE CONCEALED AT FLOOR UNDER COUNTERS OR IN CABINETS. CONNECT ALL TABLE UNITS TO PROVIDE GAS FLOW AT ALL INTENDED SOURCES.



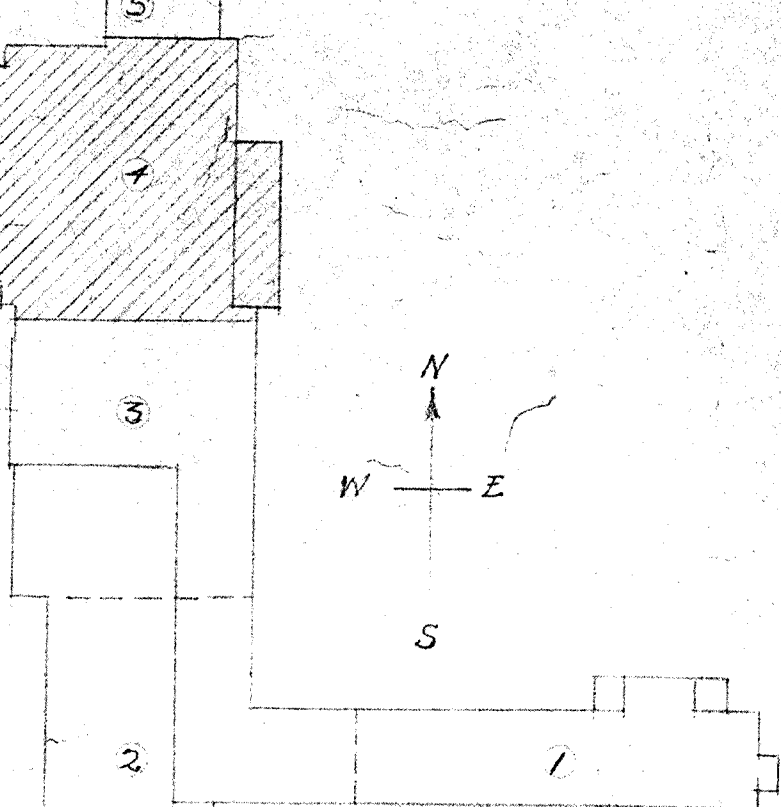
HEATING VENTILATION

REVISIONS	SECOND FLOOR PART 3	DATE
	DOWNERS GROVE	6-15-23
	SOUTH HIGH SCHOOL	
	SCHOOL DISTRICT NO 99	
	FUGARD, BURT, WILKINSON, & ORTH	
	ARCHITECTS	
	NEILER, RICH & BLADEN ENGINEERS	
	431 S. DEARBORN CHICAGO ILL.	

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



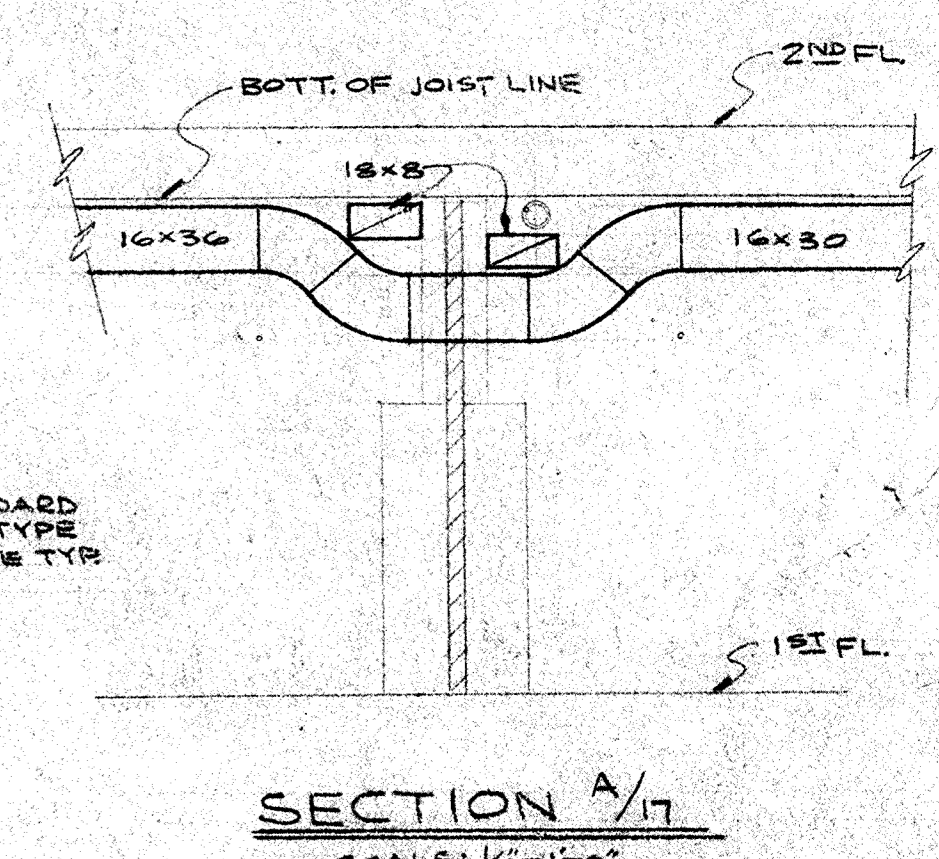
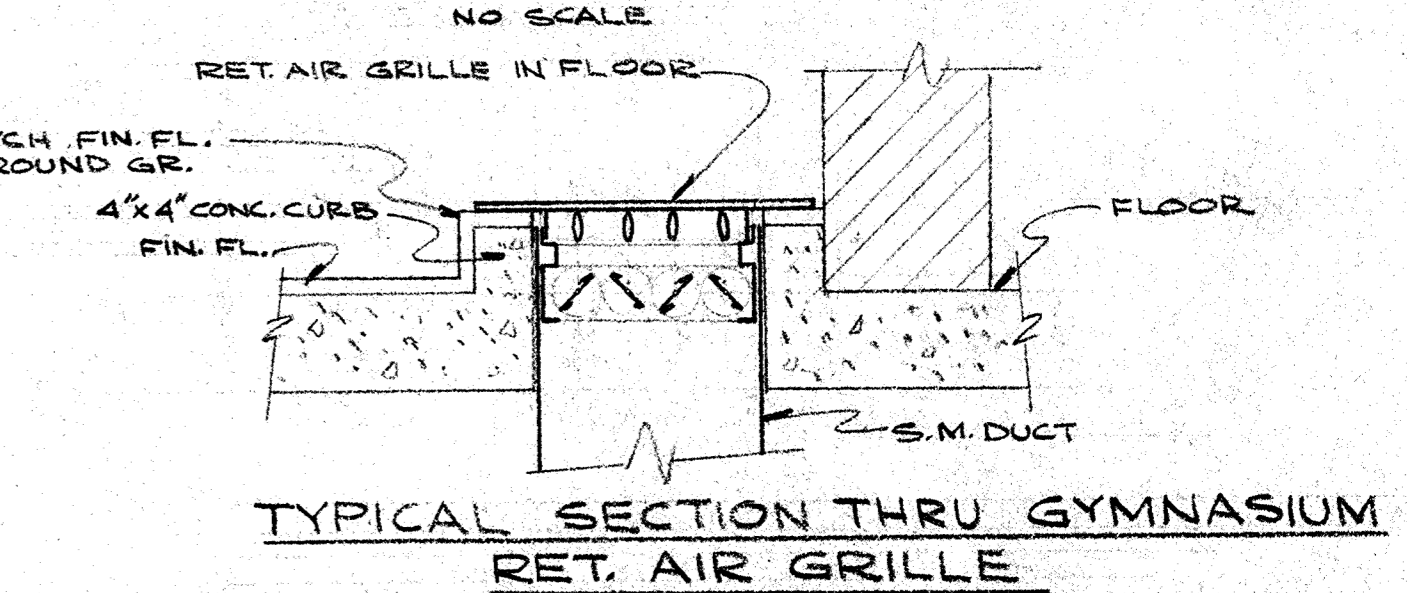
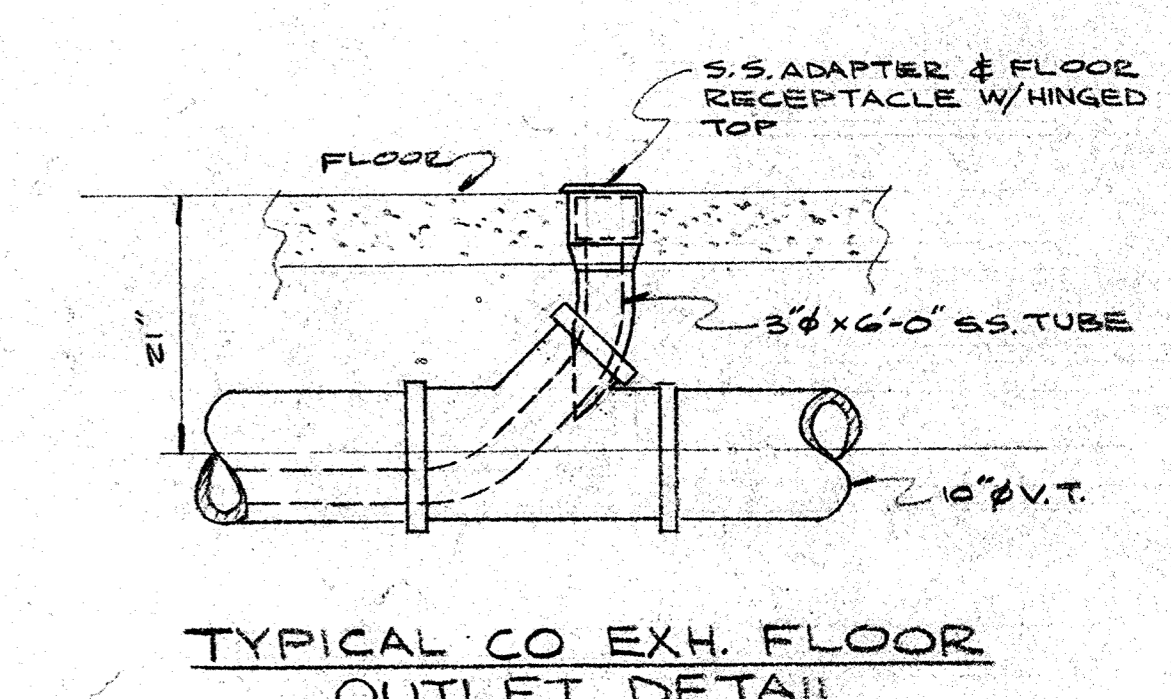
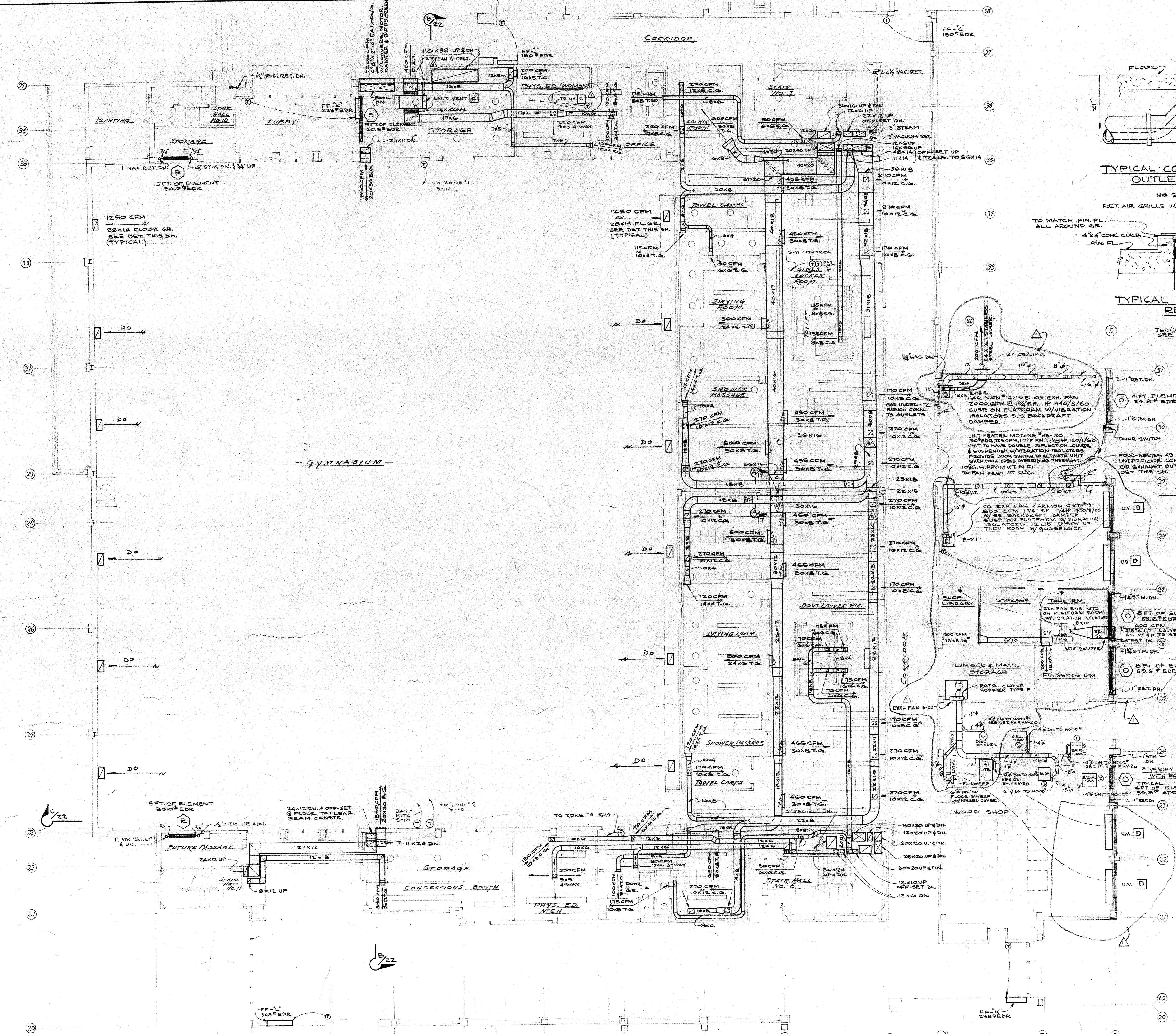
NOTE:
 1. - ALL EXHAUST REGISTERS SERVING SHOWERS TO BE STAINLESS STEEL, POLISHED FINISH.
 2. - ROUTE ALL EXHAUST DRAIN LINES DOWN TO WITHIN OF TUNNEL FLOOR, INCLUDING 1" STEEL PAN COIL UNITS & JUIT VENTS. ALL PAN COIL DRAIN LINES 3/4" ALL UNIT VENT. DRAIN LINES 1"



HEATING VENTILATION

REVISIONS	BASEMENT PART 4	DATE
7-1-63	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT NO 99	6-15-63
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 808 N. MICHIGAN AVE. CHICAGO	SHEET H-V 16
	NEILER RICH & BLADEN ENGINEERS 431 S. DEARBORN CHICAGO, ILL.	CONM. 1118

FOR CONTINUATION SEE SH. HV-12

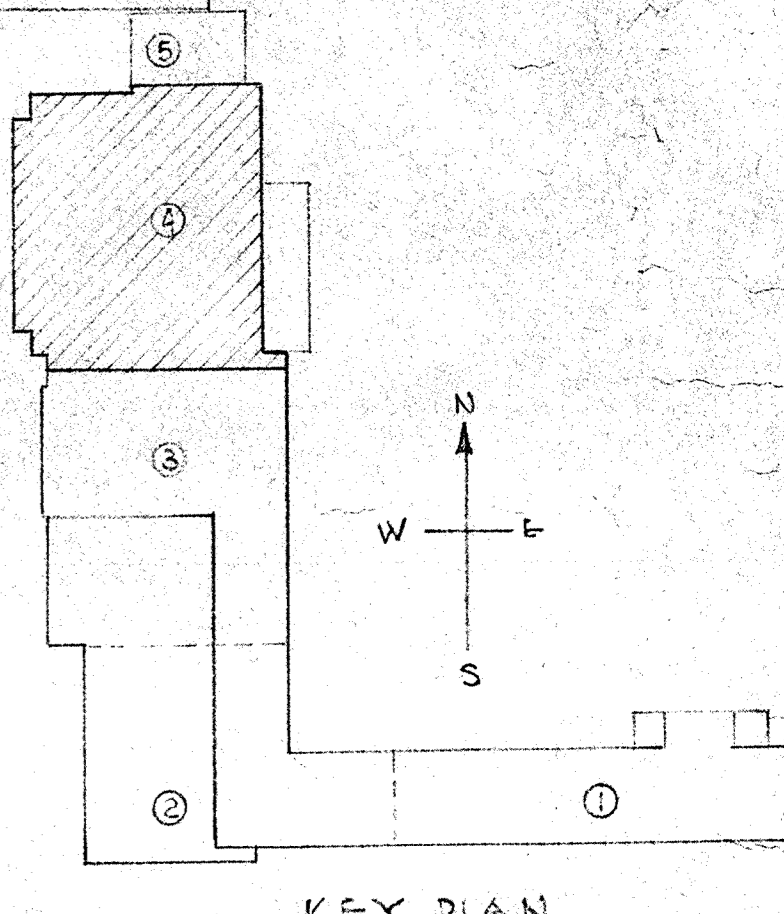


NOTE: ALL CO EXH. SYSTEM COMPONENTS TO BE S.S. & INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. DROP TEN (10) 3/8" FLEXIBLE BRANCHES TO 1/4" BELOW TOP OF WORK BENCH FOR ENGINES. BRANCHES TO HAVE ADAPTERS TO RECEIVE BRANCHES WHEN NOT IN USE.

NOTE: ALL EXHAUST REGISTERS SERVING SHOWERS TO BE STAINLESS STEEL POLISHED FINISH.

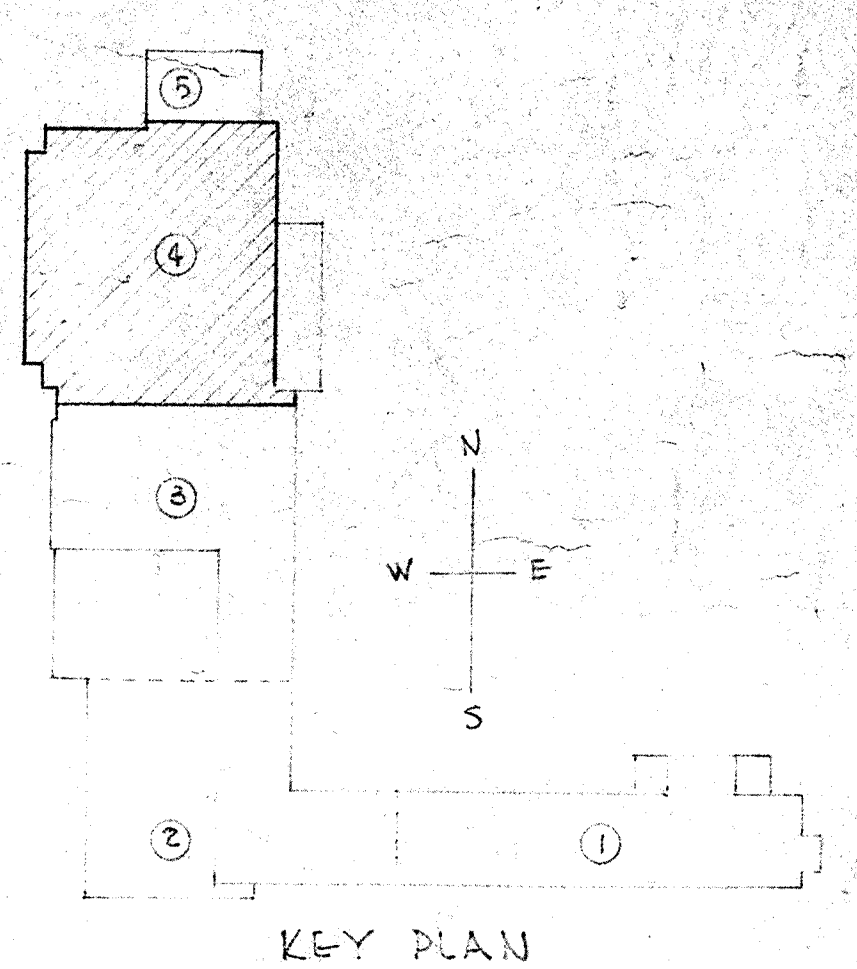
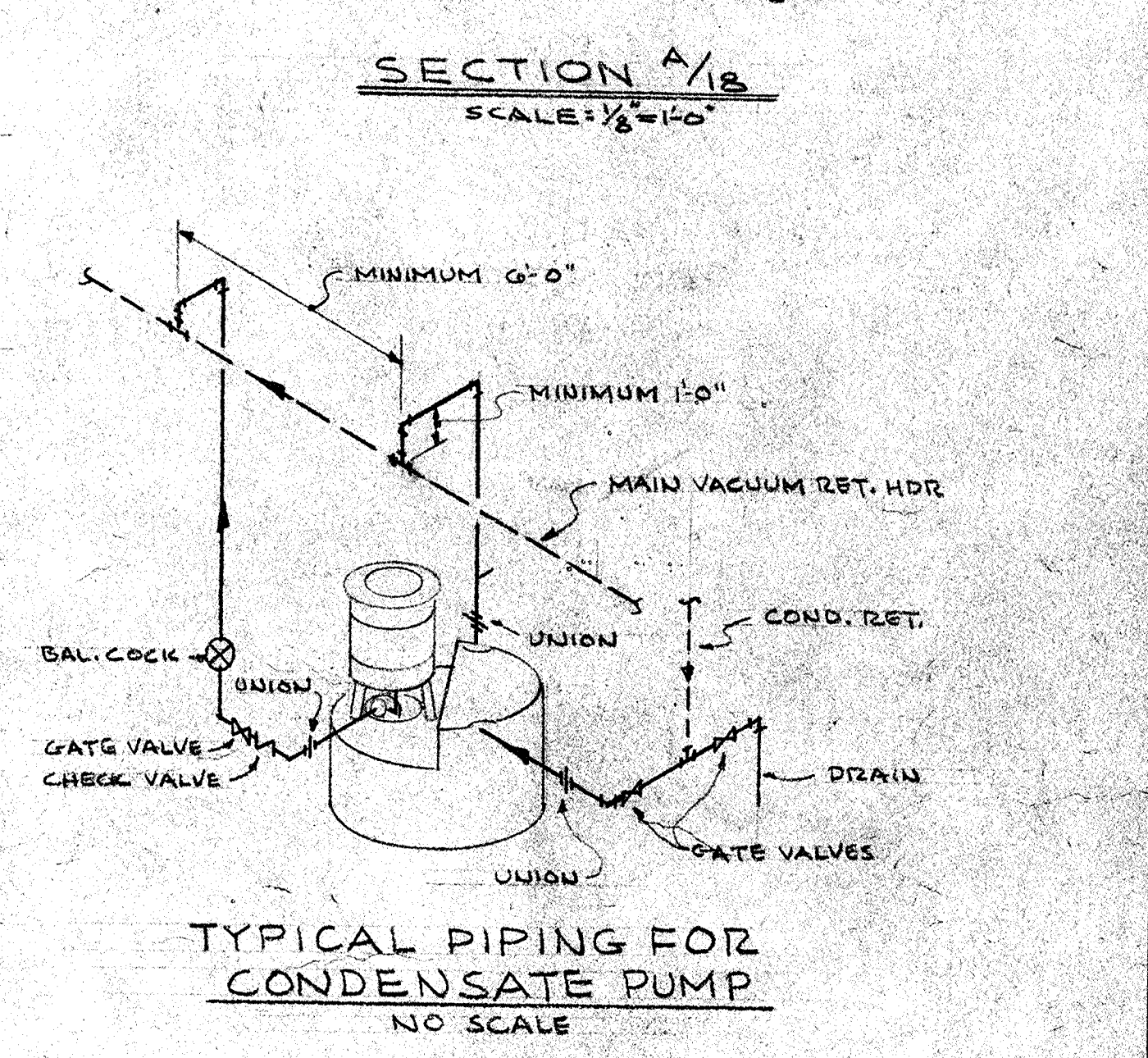
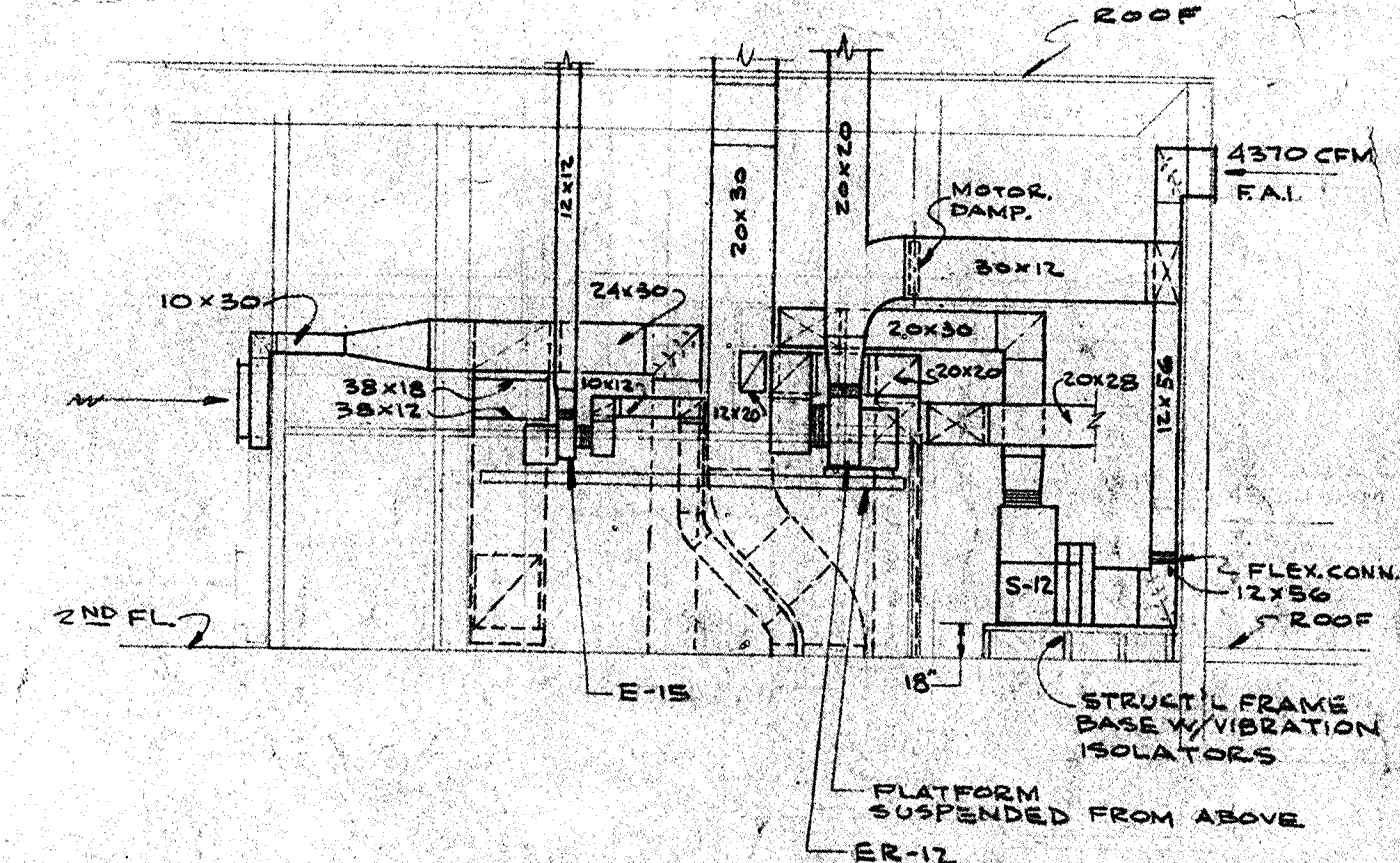
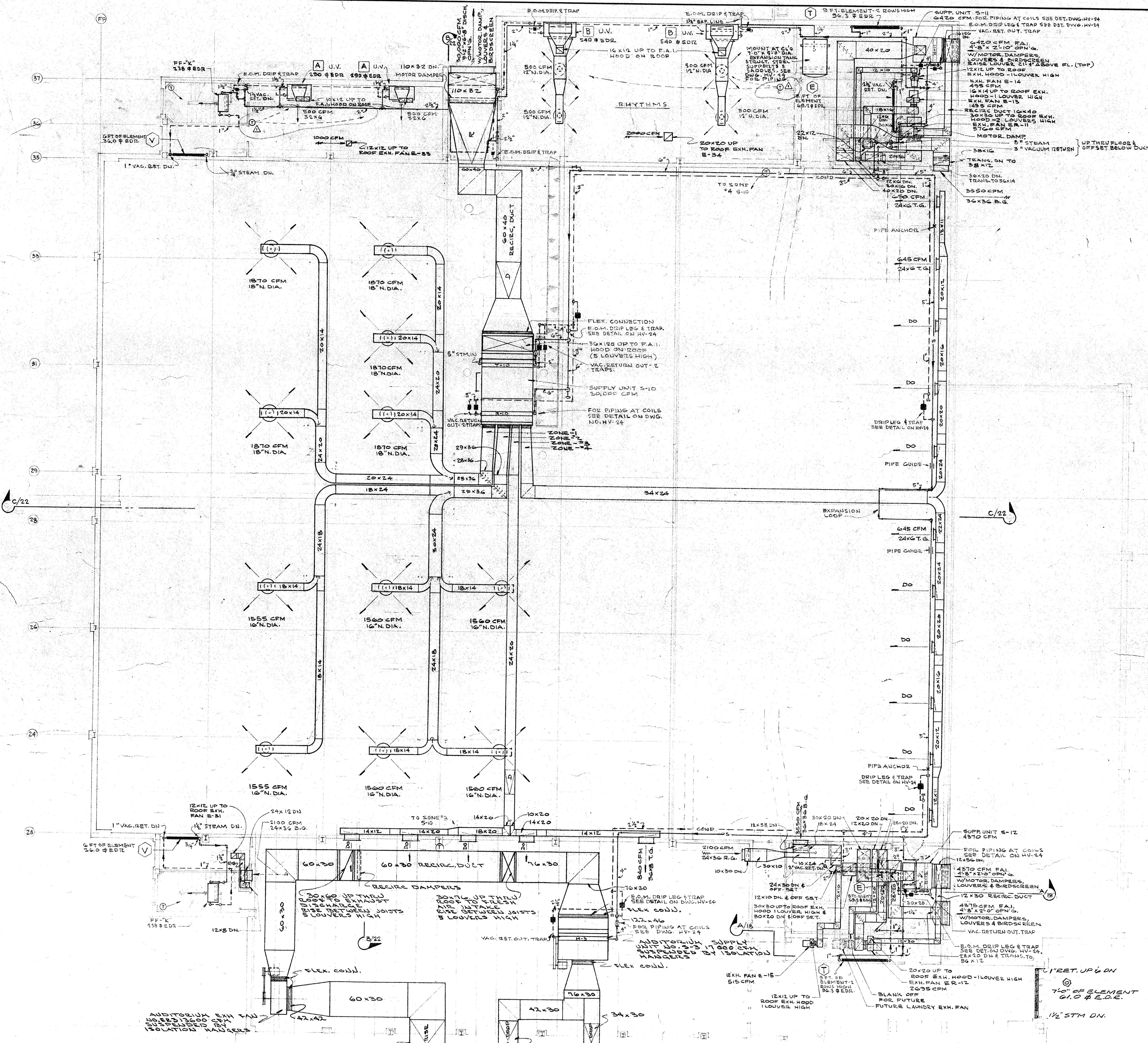
EQUIPMENT SCHEDULE

1 BAND SAW	750 CFM
2 RADIAL SAW	350 "
3 SURF.	800 "
4 JTR	350 "
5 CIRC SAW	350 "
6 DISC SANDER	350 "

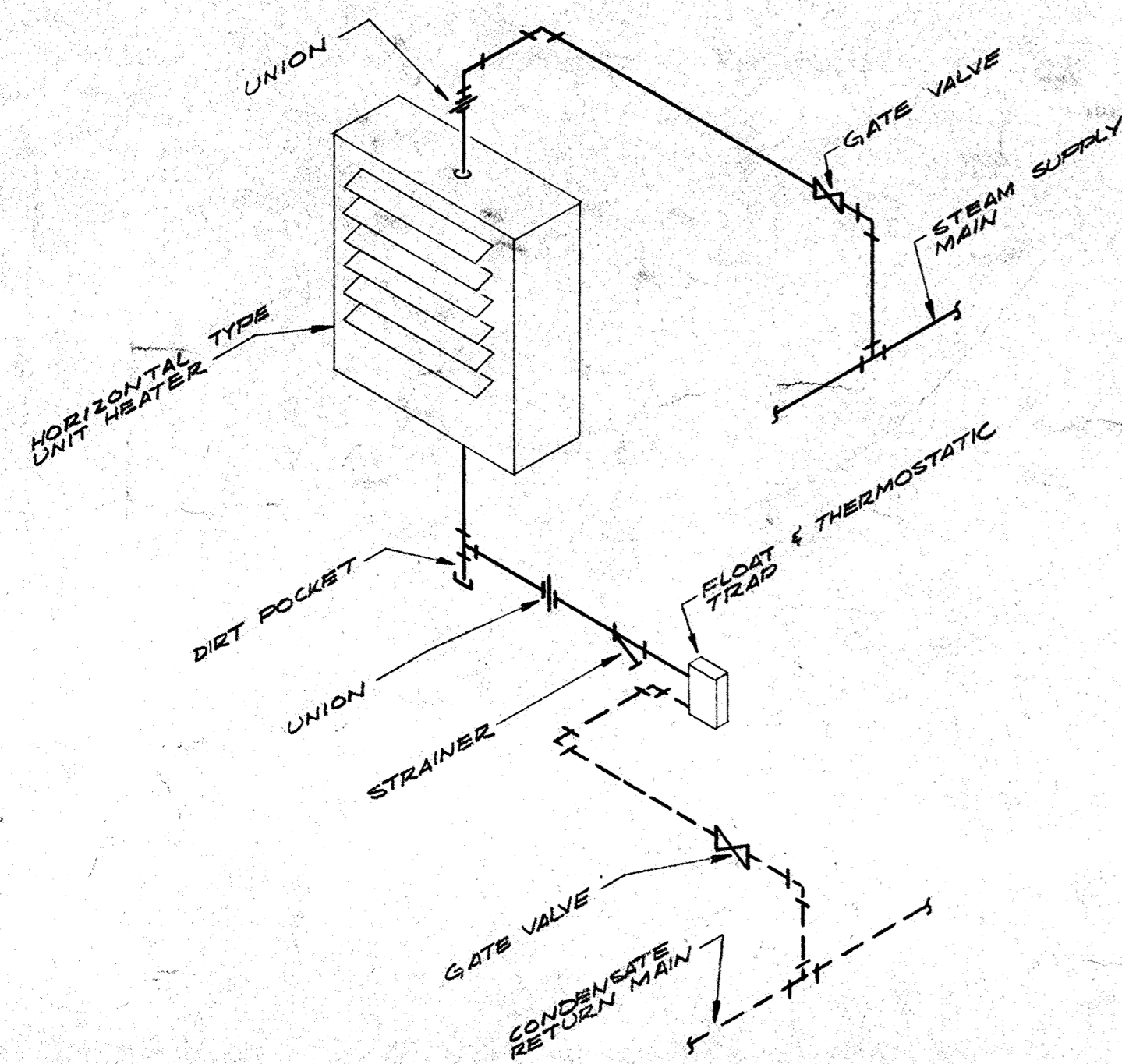


HEATING VENTILATION

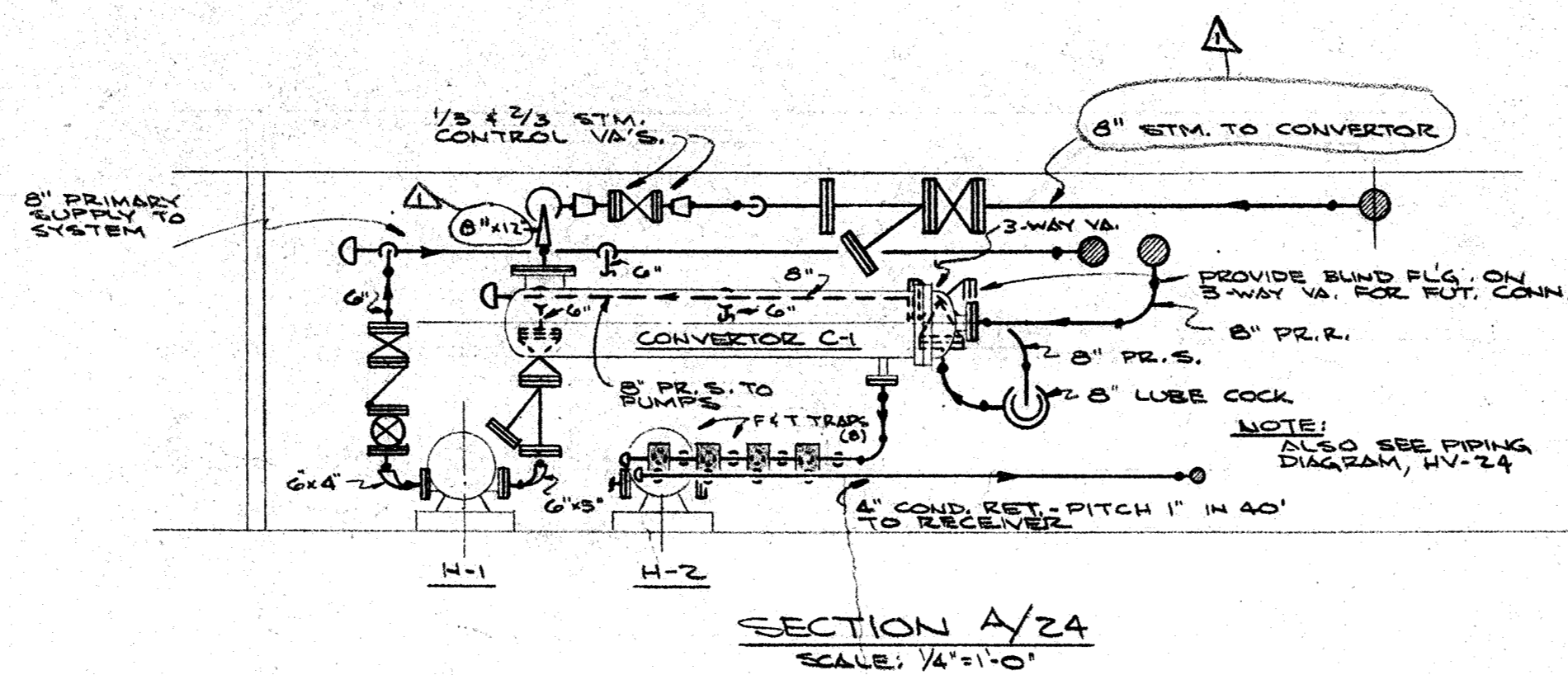
REVISIONS	FIRST FLOOR PART 4	DATE
7-1-63		6-15-63
DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT No. 99		SHEET H.V 17
FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 822 N. MICHIGAN AVE. CHICAGO		COMM. 1118
NETLER, RICH & BLADEN ENGINEERS 431 S. DEARBORN CHICAGO ILL.		



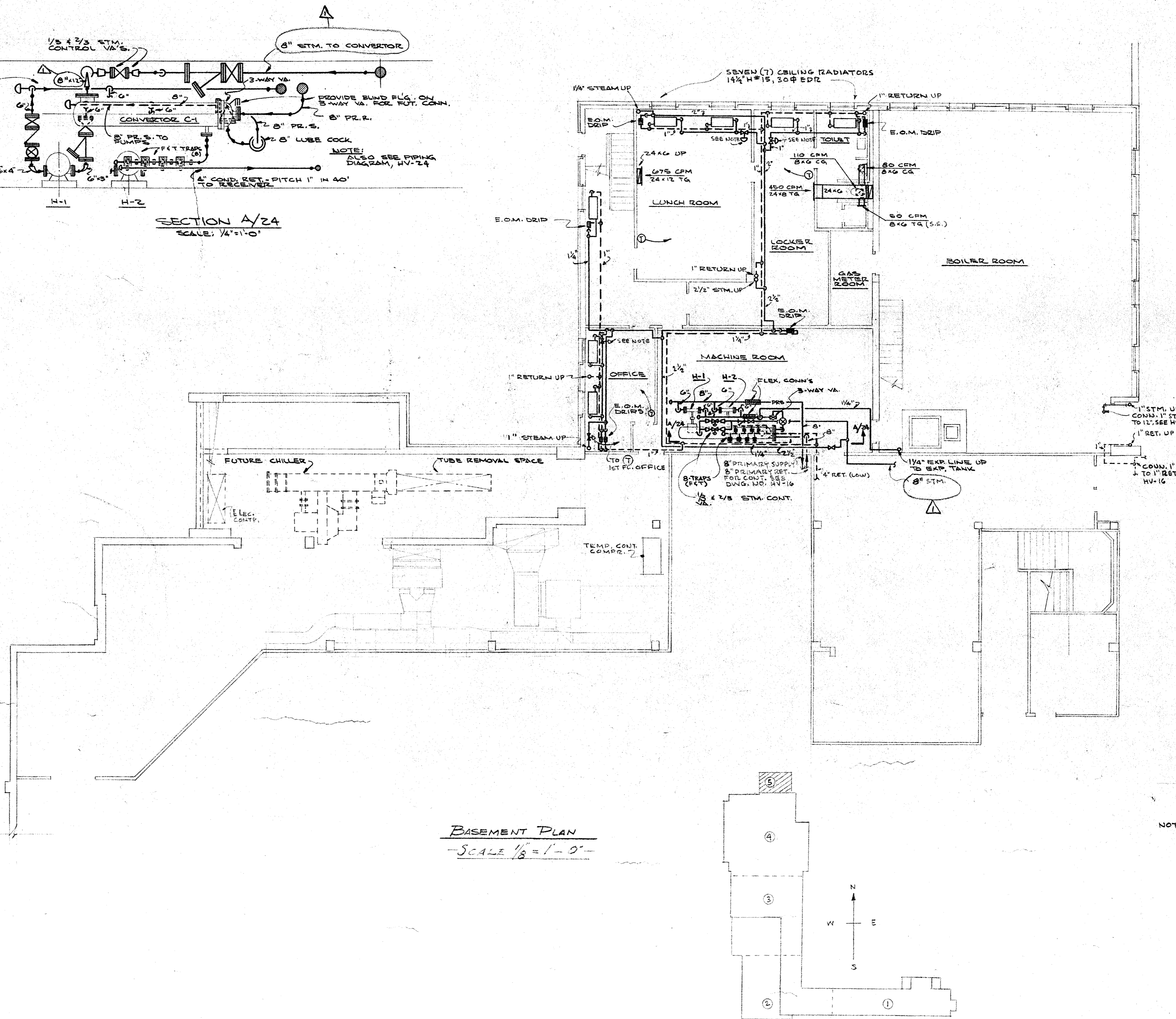
REVISIONS	SECOND FLOOR - PART 4	DATE
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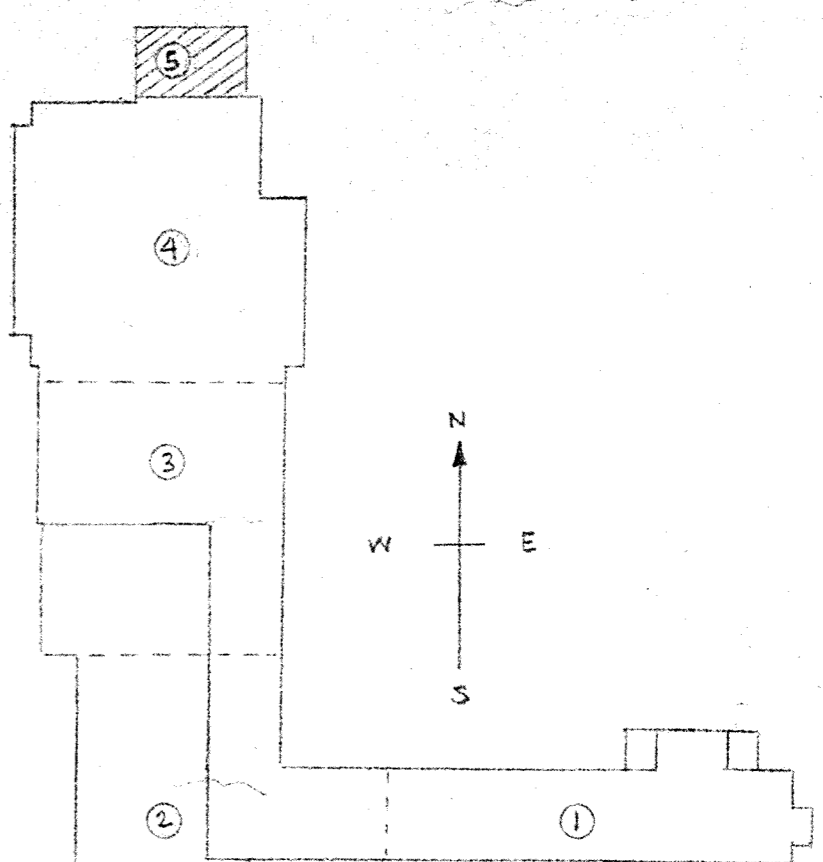
ISOMETRIC SHOWING TYPICAL PIPING & CONNS. TO HORIZONTAL TYPE UNIT HEATERS



SECTION A/24
SCALE: 1/4" = 1'-0"



Basement Plan
SCALE 1/8" = 1'-0"

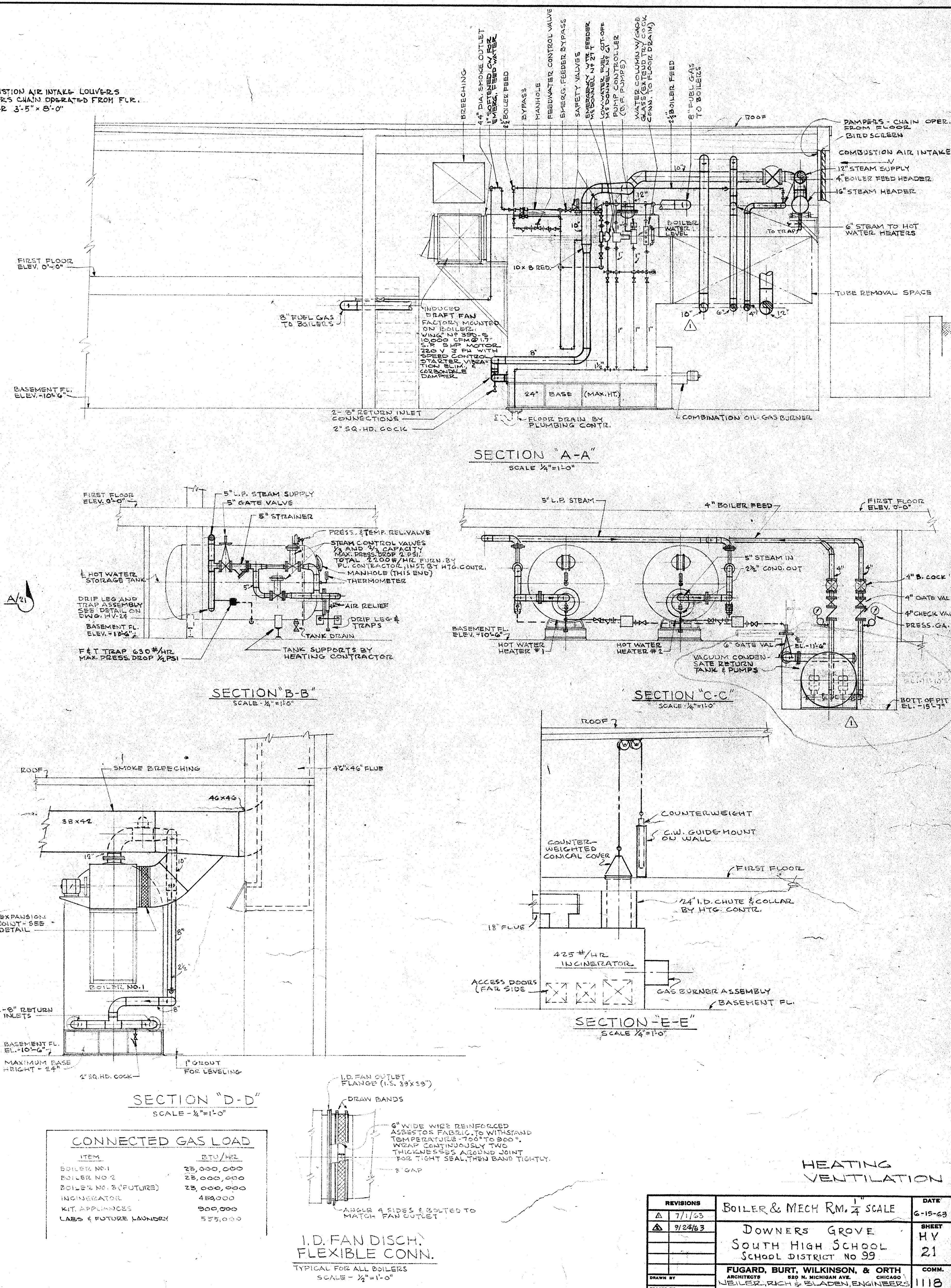
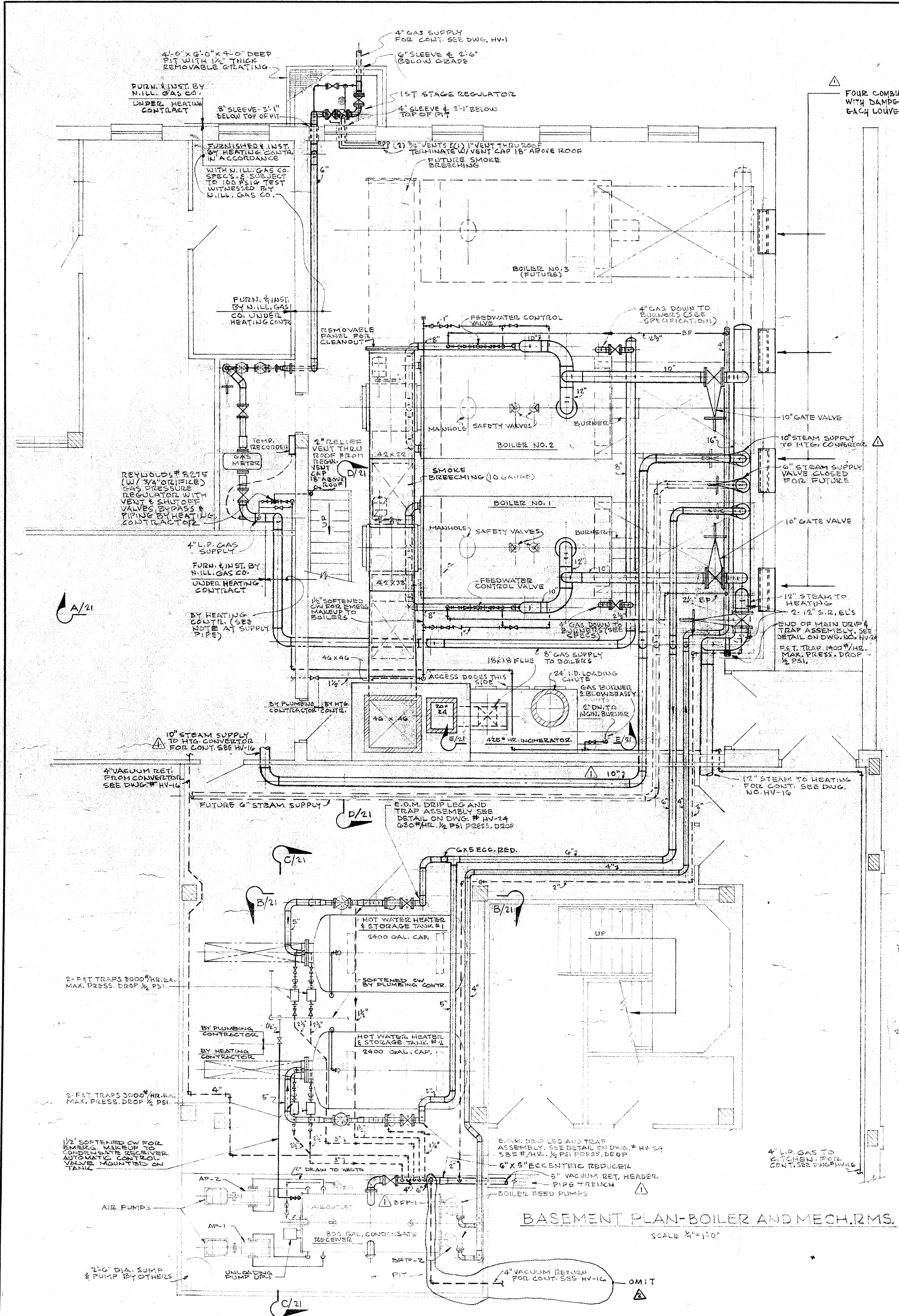


NOTE - WHERE SHOWN, PROVIDE MODULATING THERMOSTAT CONTROLLER, AUTOMATIC STEAM VALVE, TO MODULATE MAINTAINING SET ROOM TEMPERATURE. CEILING RADIATORS TO BE SHAW-PECKINS AIR RADIATORS OF INDICATED SIZE.

HEATING VENTILATION

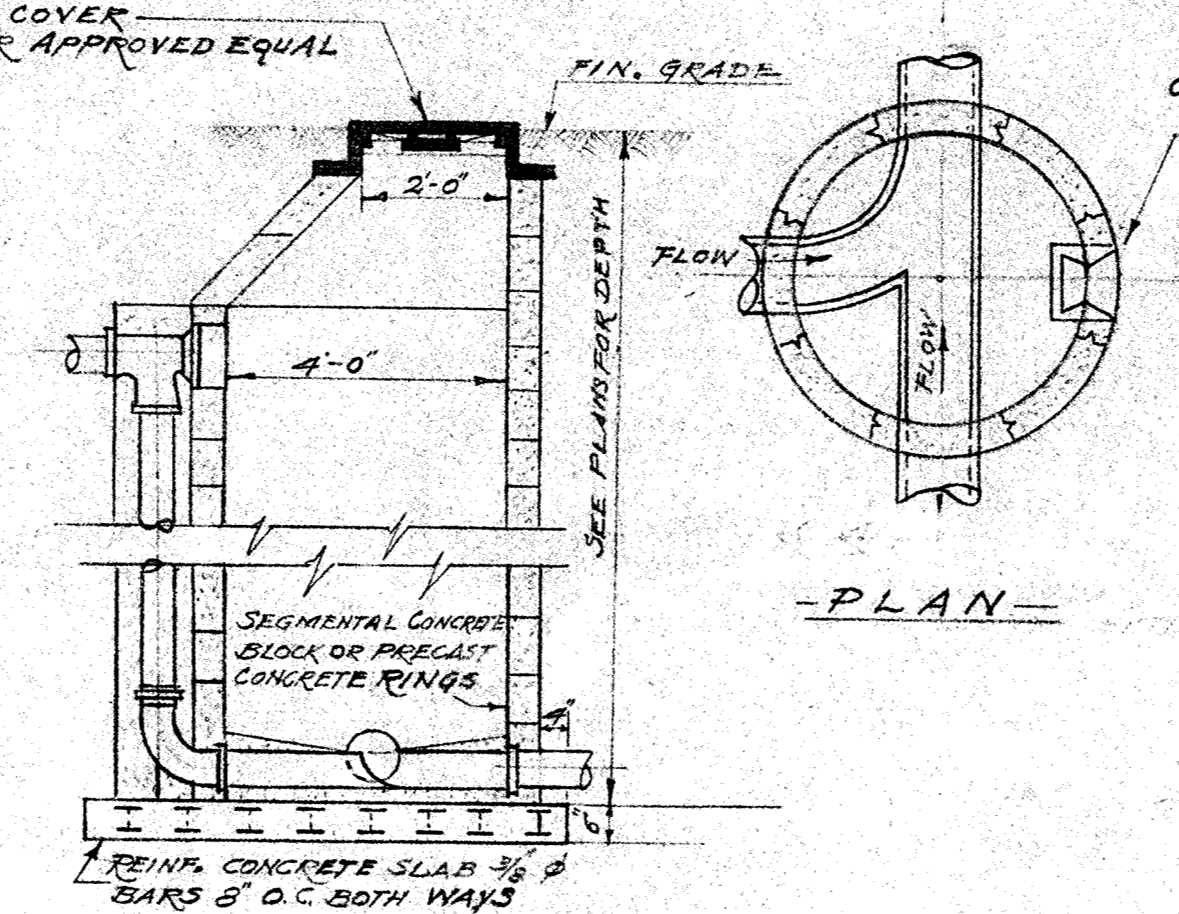
REVISIONS	BASEMENT PART 5	DATE
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DRAWN BY
 CHECKED BY
 TRACED BY
 ARCHITECTS
 820 N. MICHIGAN AVE. CHICAGO
 NEILLER RICH & BLADEN ENGINEERS
 437 S. DEARBORN CHICAGO ILL.

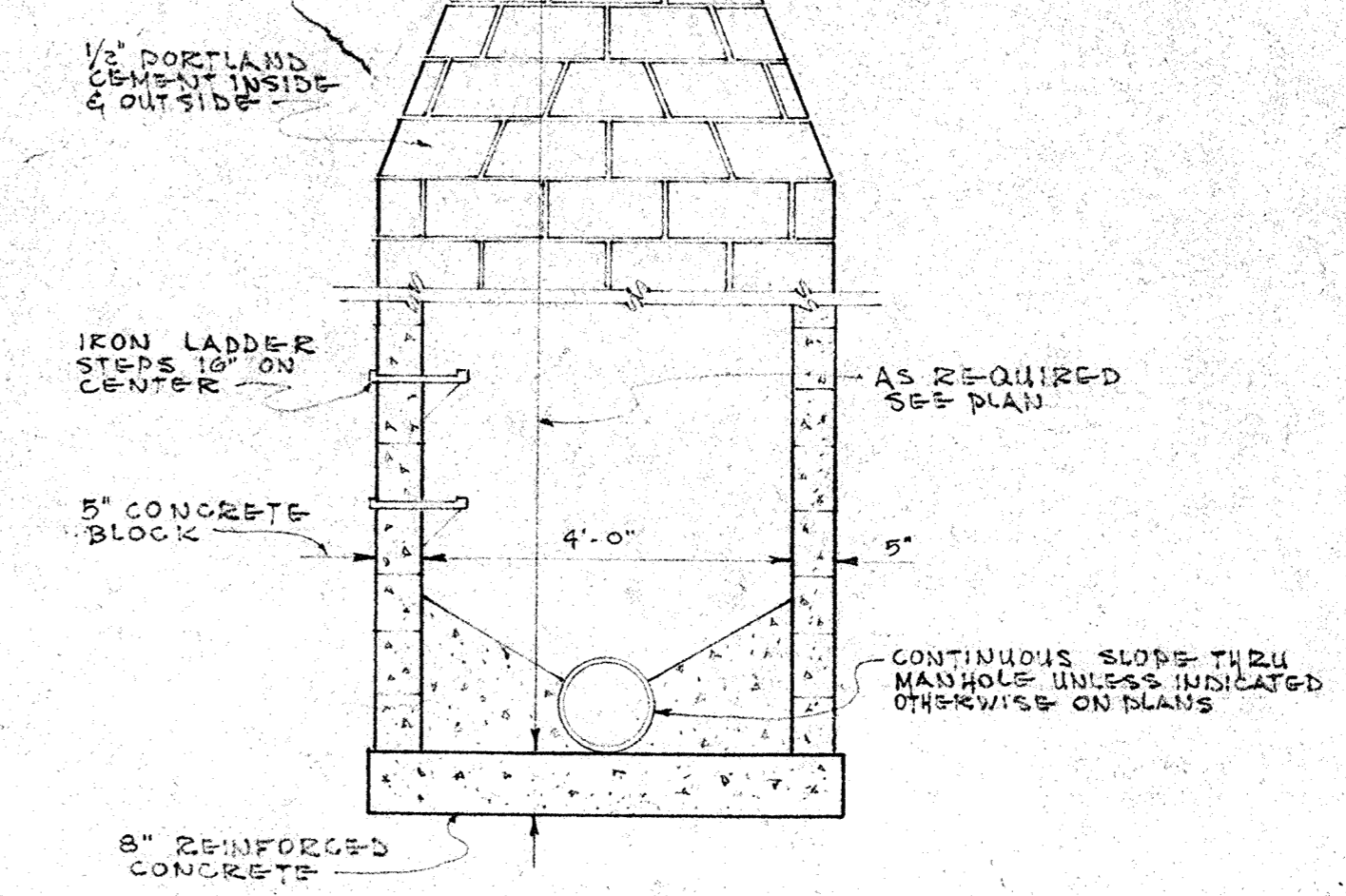


CATCH BASIN FRAME & PERFORATED COVER
 JAMES B. CLOW & SONS #F-3230 WT NO. 1-A

C.I. FRAME & COVER
 CLOW #F3220-1 OR APPROVED EQUAL

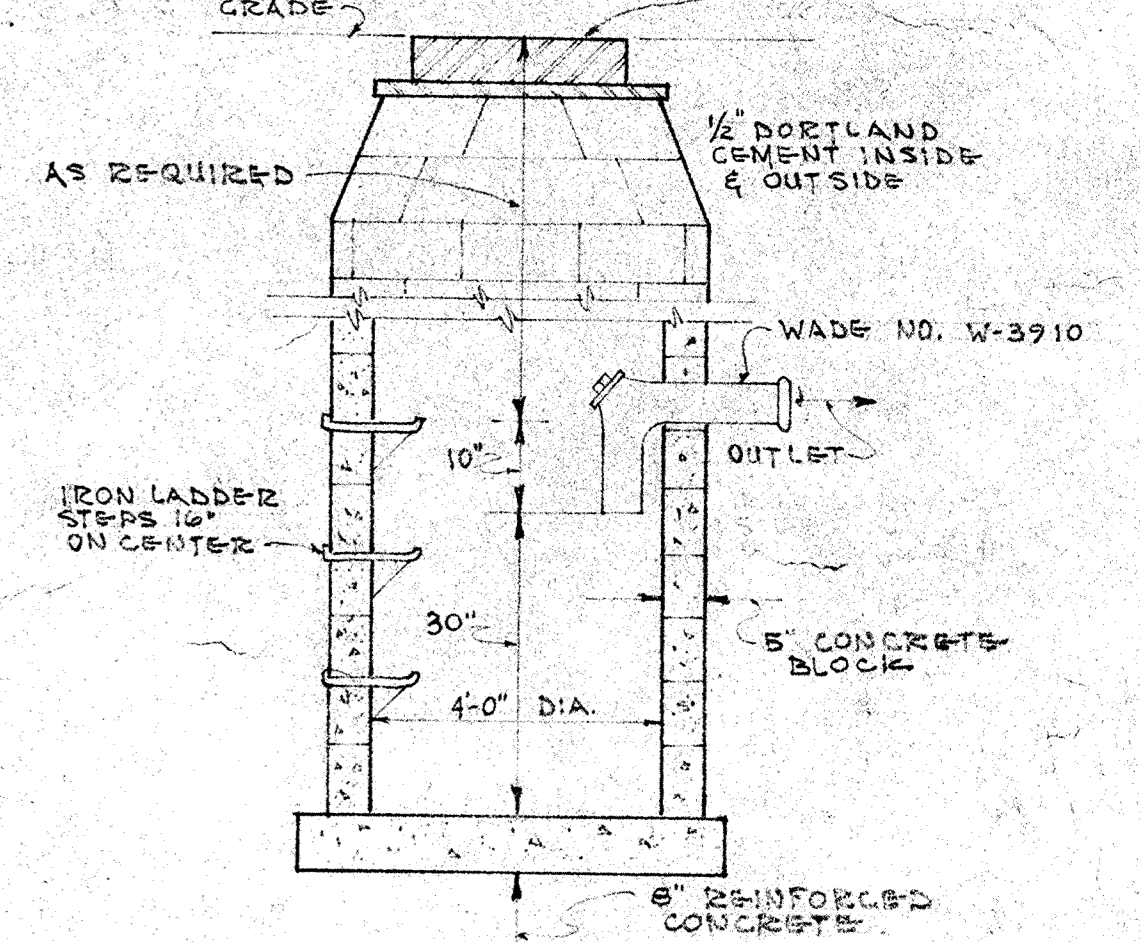


-SECTION
 DETAIL OF DROP MANHOLE
 NOT TO SCALE

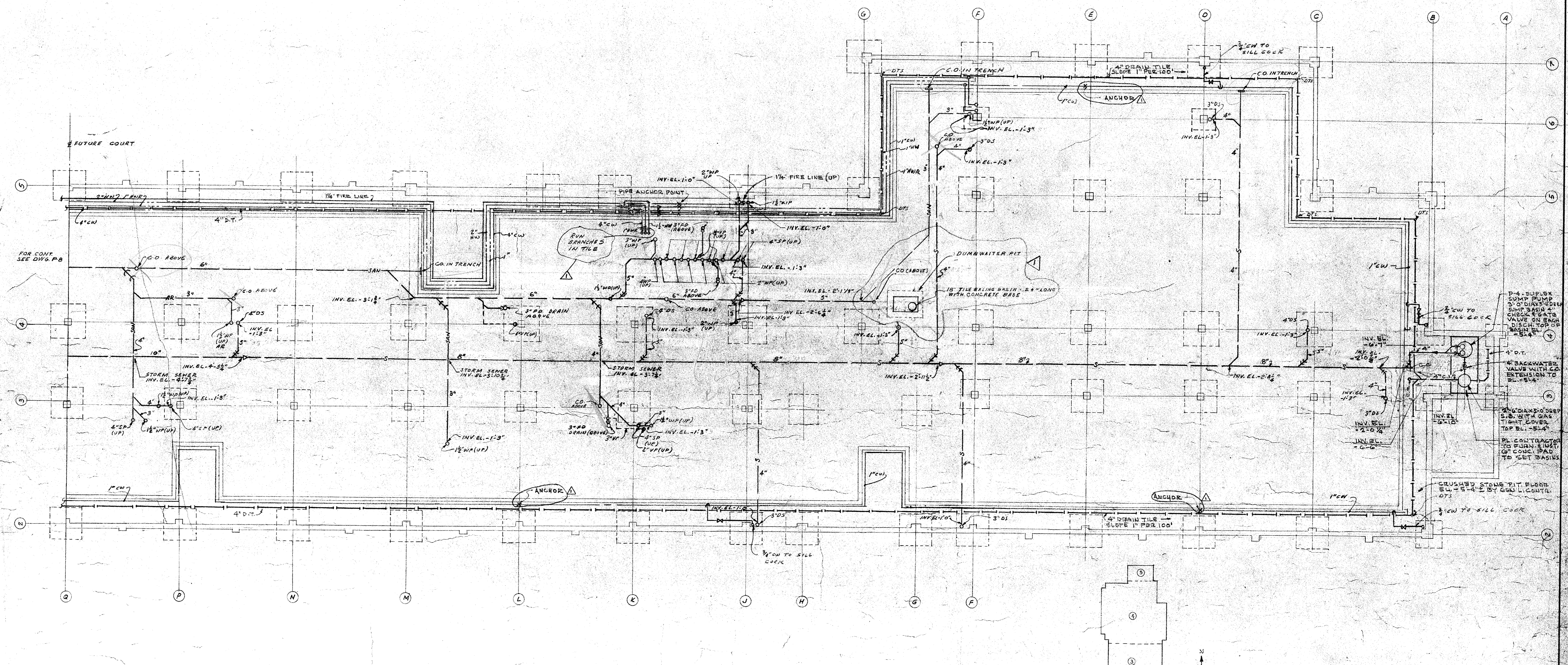


DETAIL OF
 MANHOLE
 NO SCALE

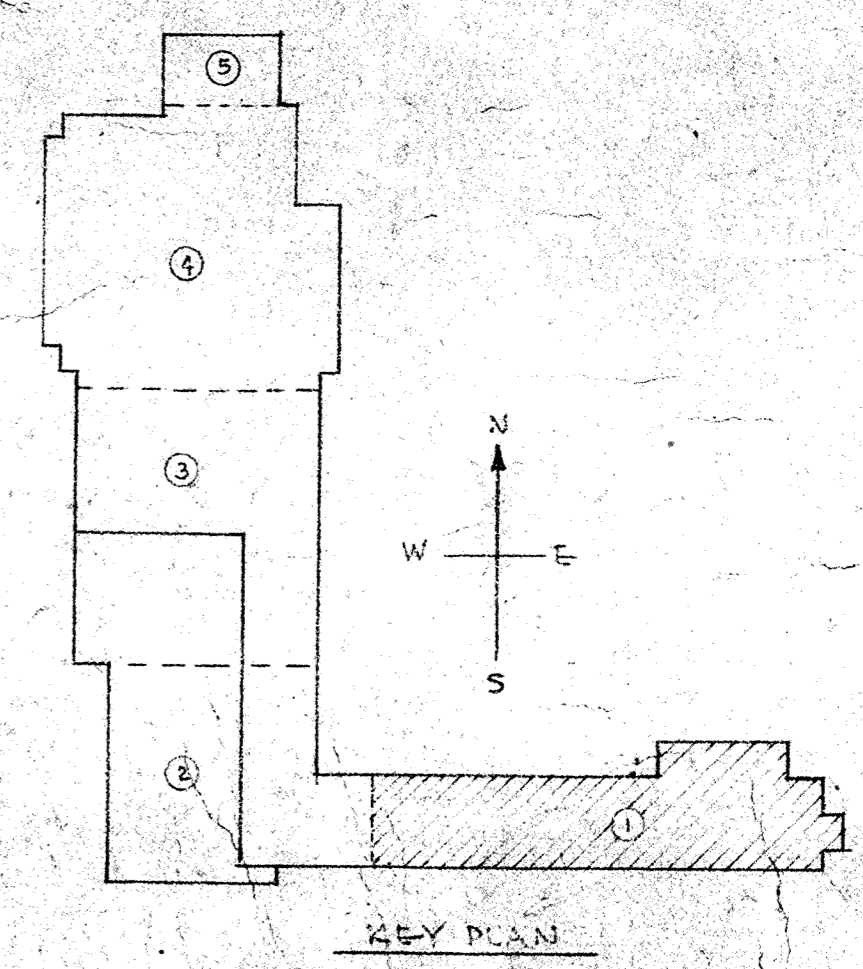
CATCH BASIN FRAME & PERFORATED COVER
 JAMES B. CLOW & SONS #F-3230 WT NO. 1-A



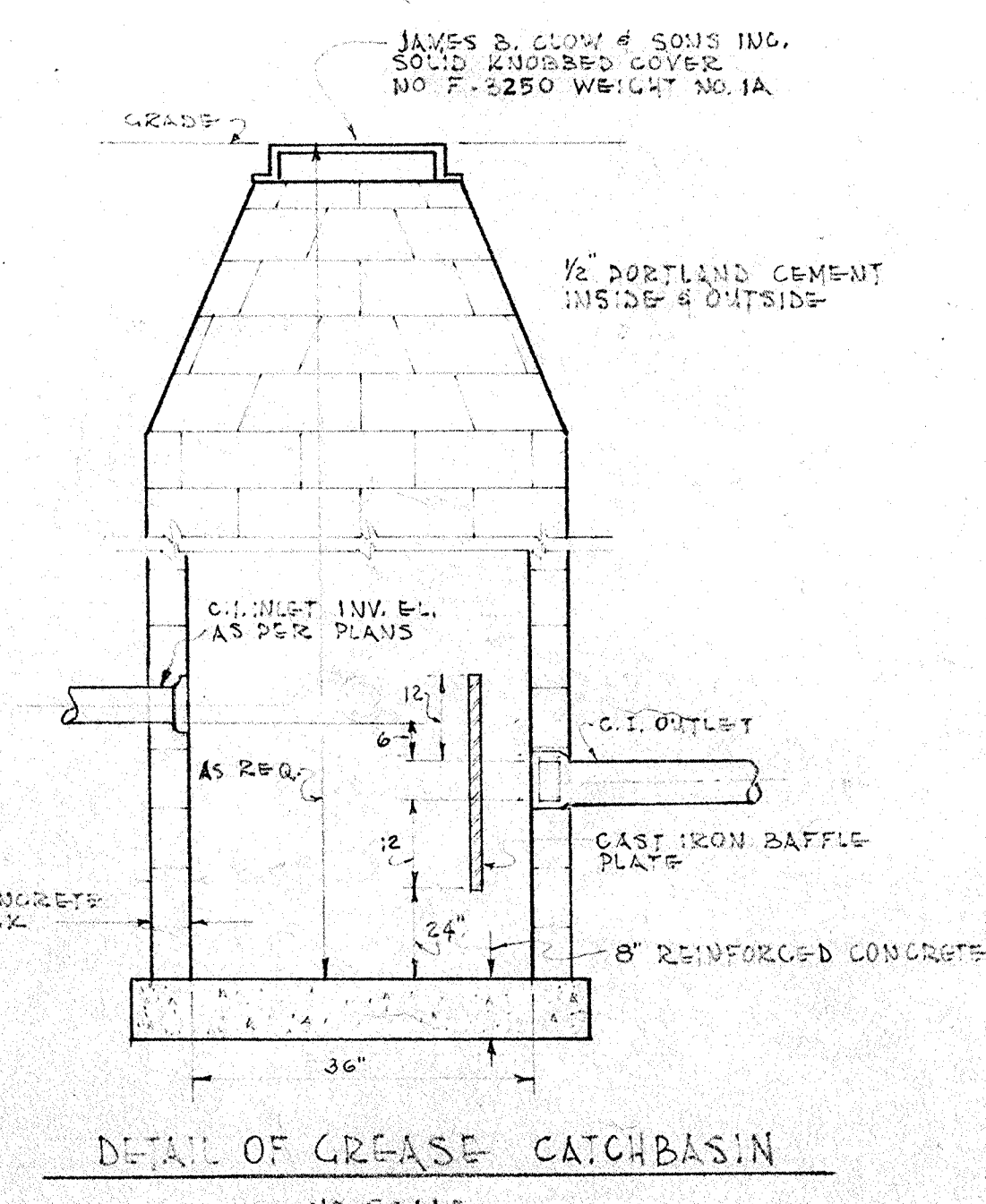
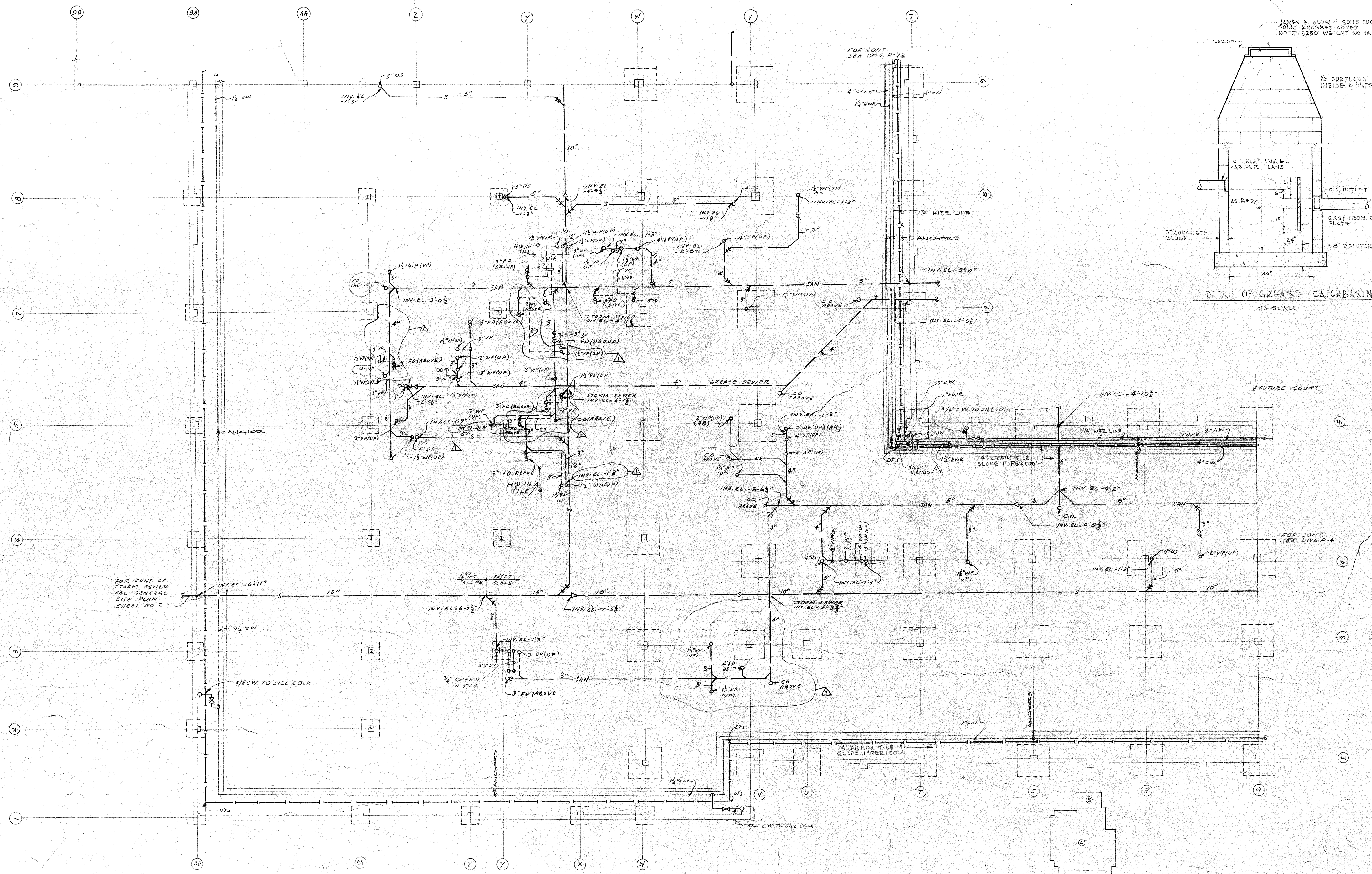
DETAIL OF
 CATCH BASIN
 NO SCALE



SCALE 3/8" = 1'-0"



REVISIONS	UNDERGROUND PART-1	DATE
7-1-63		6-15-63
	SOUTH HIGH SCHOOL	
	SCHOOL DISTRICT No 98	
	FUGARD, BURT, WILKINSON, & ORTH	
	ARCHITECTS	
	1118	

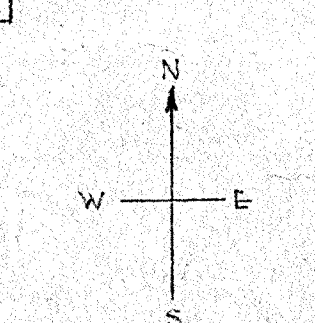


FOR CONT. OF STORM SEWER SEE GENERAL SITE PLAN SHEET NO. 2

FOR CONT. SEE DWG. P-12

FOR CONT. SEE DWG. P-4

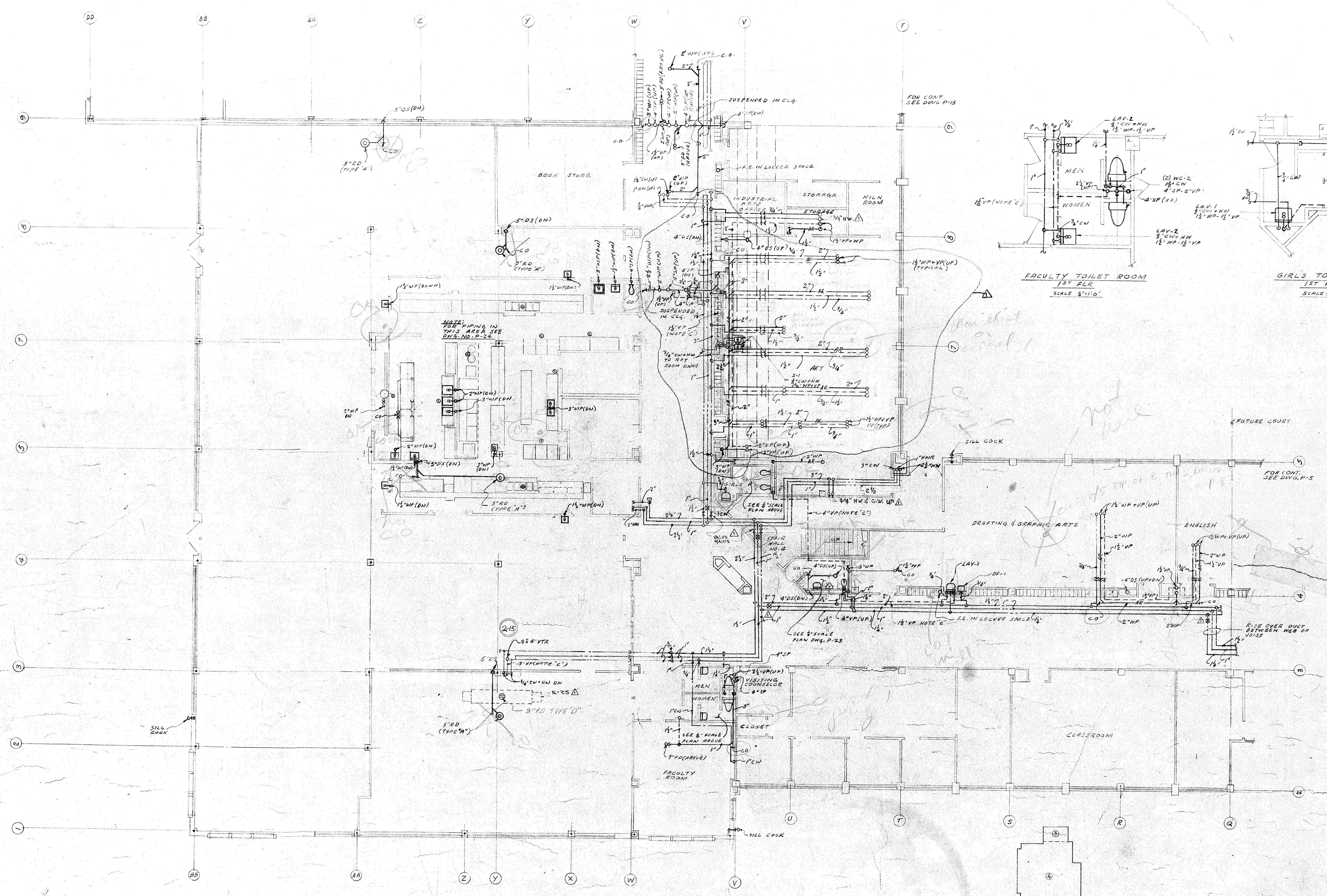
SCALE 1/8" = 1'-0"



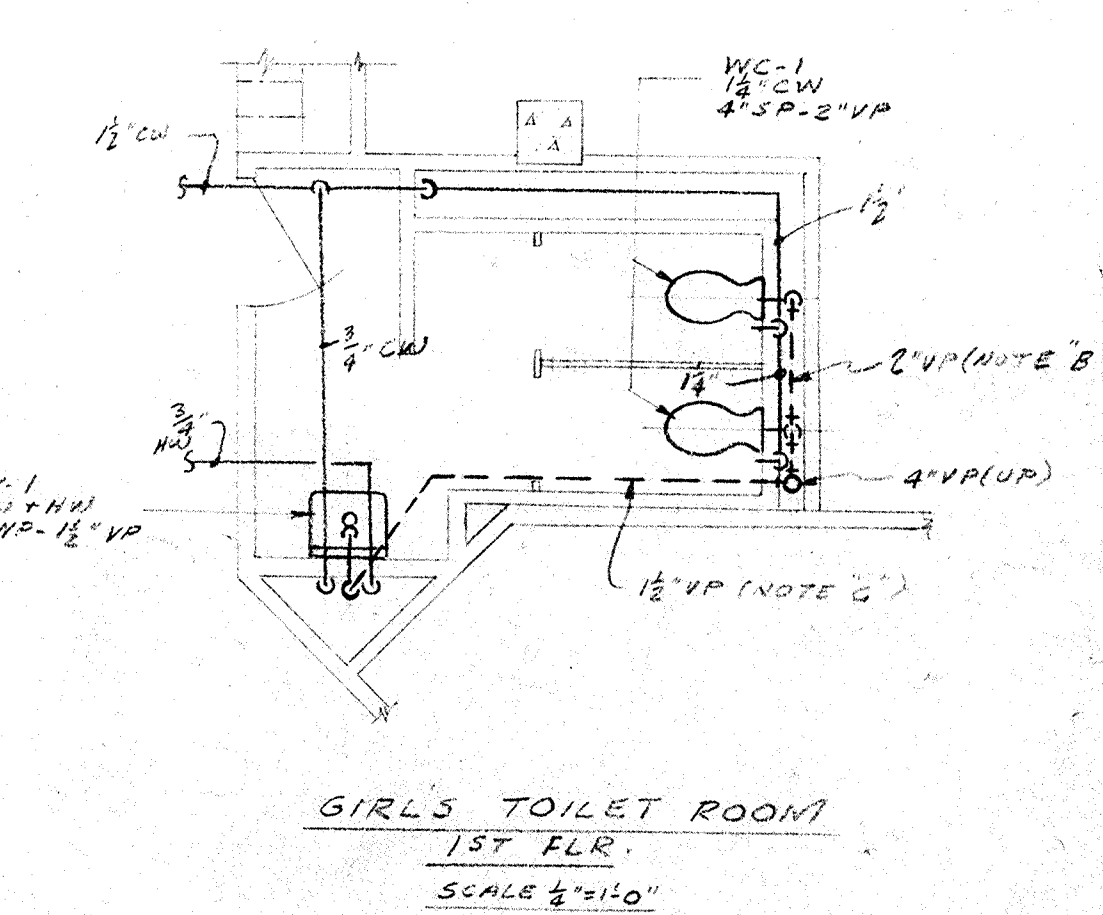
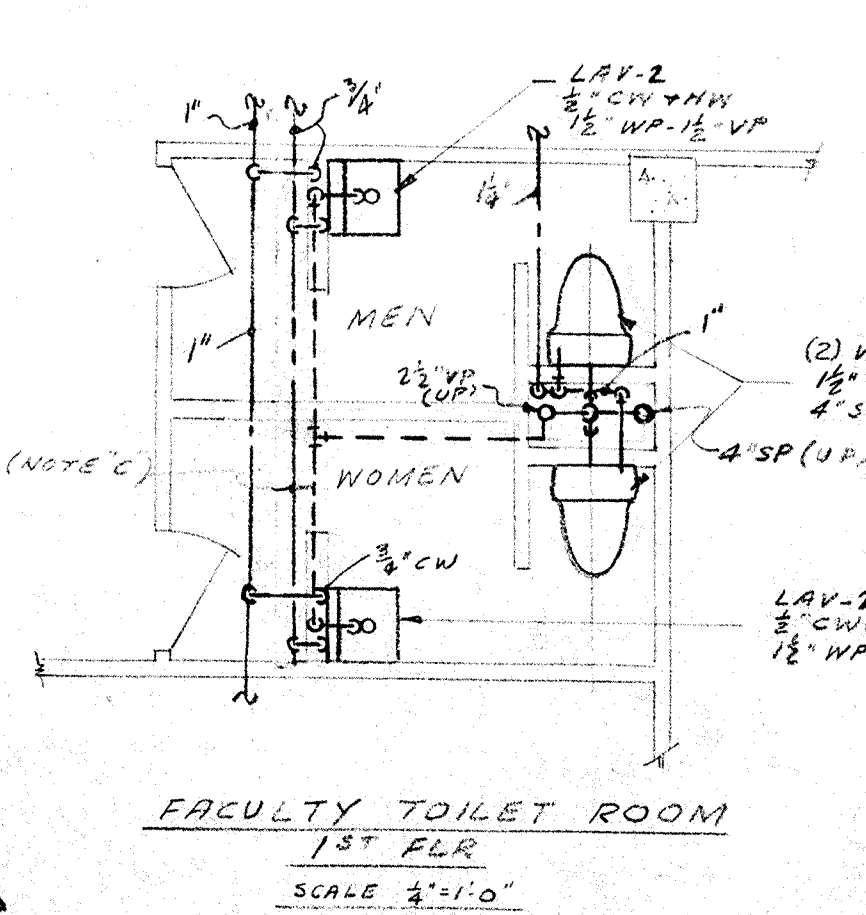
PLUMBING -

REVISIONS	UNDERGROUND PART- 2	DATE
1	7-1-63	6-15-63
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT No. 99	P8
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 280 N. MICHIGAN AVE. CHICAGO	CONM.
	NEELER RICH & BLADEN ENGINEERS 431 S. DEARBORN CHICAGO, ILL.	1118

15

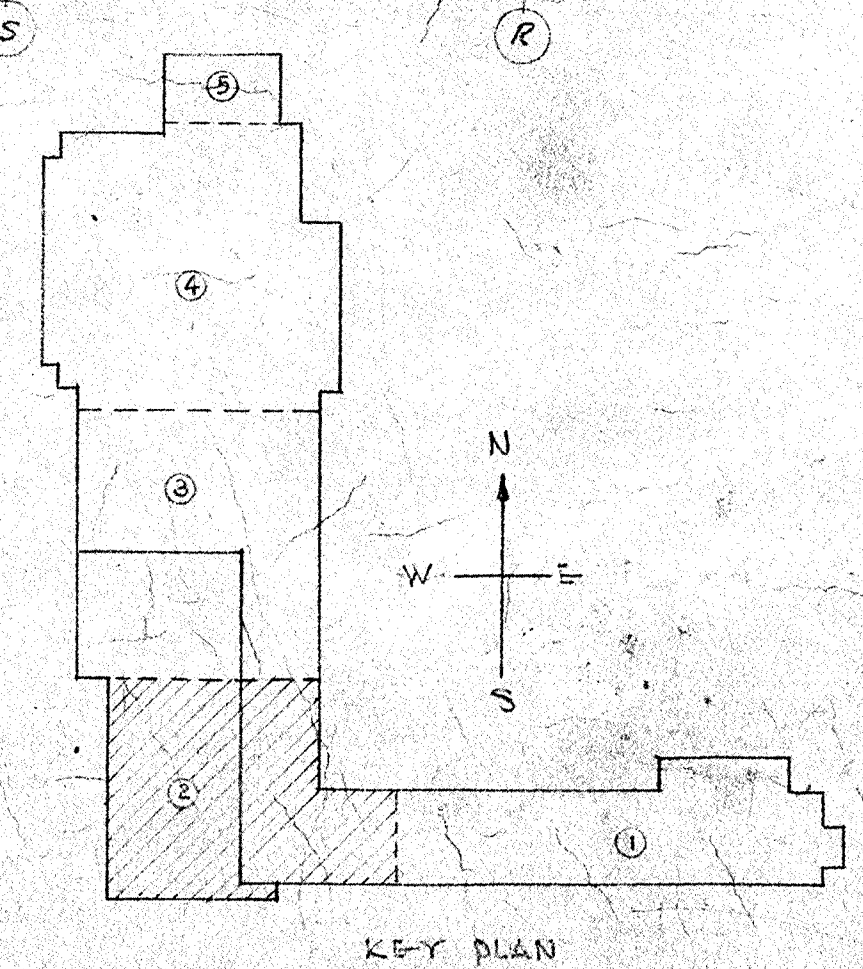


SCALE 1/8" = 1'-0"



FACULTY TOILET ROOM
1ST FLR.
SCALE 1/4" = 1'-0"

GIRLS TOILET ROOM
1ST FLR.
SCALE 1/4" = 1'-0"

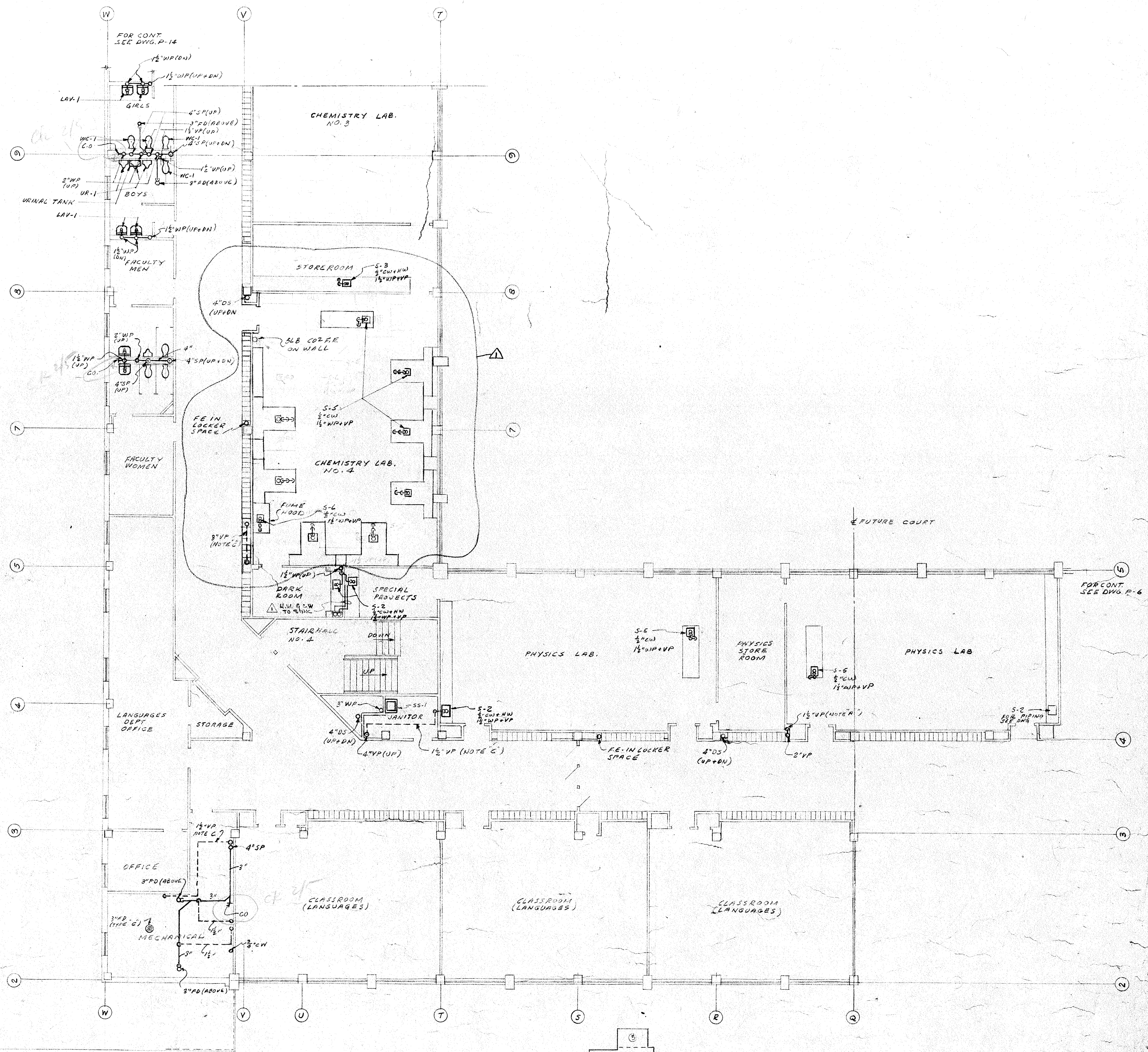


KEY PLAN

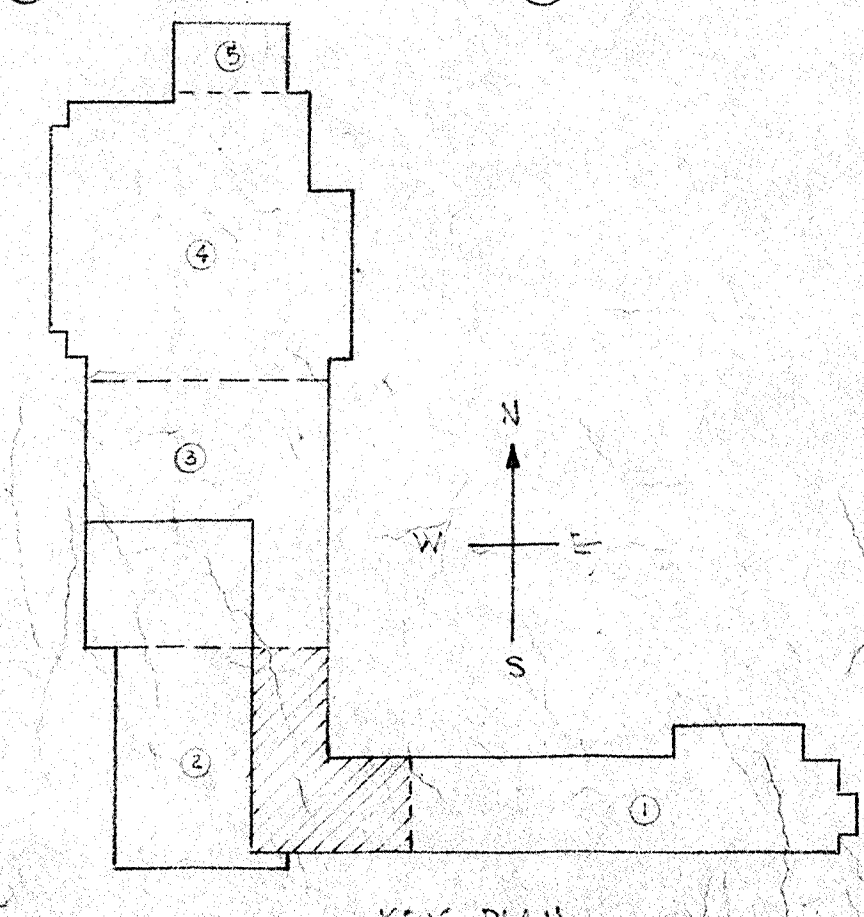
PLUMBING

REVISIONS	DATE
1-7-1-03	6-16-03
FIRST FLOOR PART- 2	
DOWNERS GROVE SOUTH HIGH SCHOOL	
SCHOOL DISTRICT No 99	
FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 200 N. MICHIGAN AVE. CHICAGO ILL. 60601	
NEILER, RICH & BLADEN ENGINEERS 134 S. DEARBORN CHICAGO ILL. 60605	
DRAWN BY	COMD.
TRACED BY	1118

16



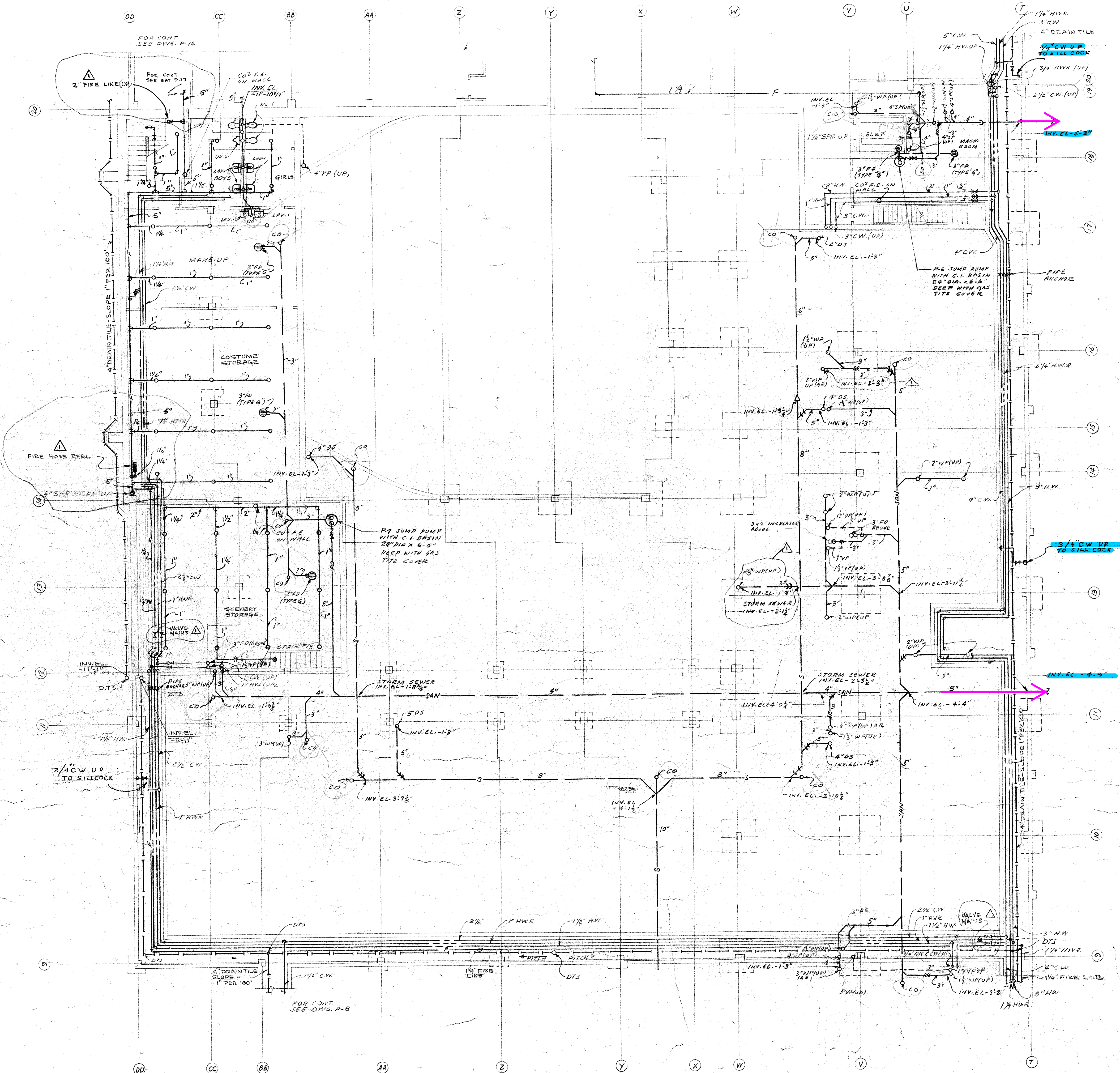
SCALE 1/8" = 1'-0"



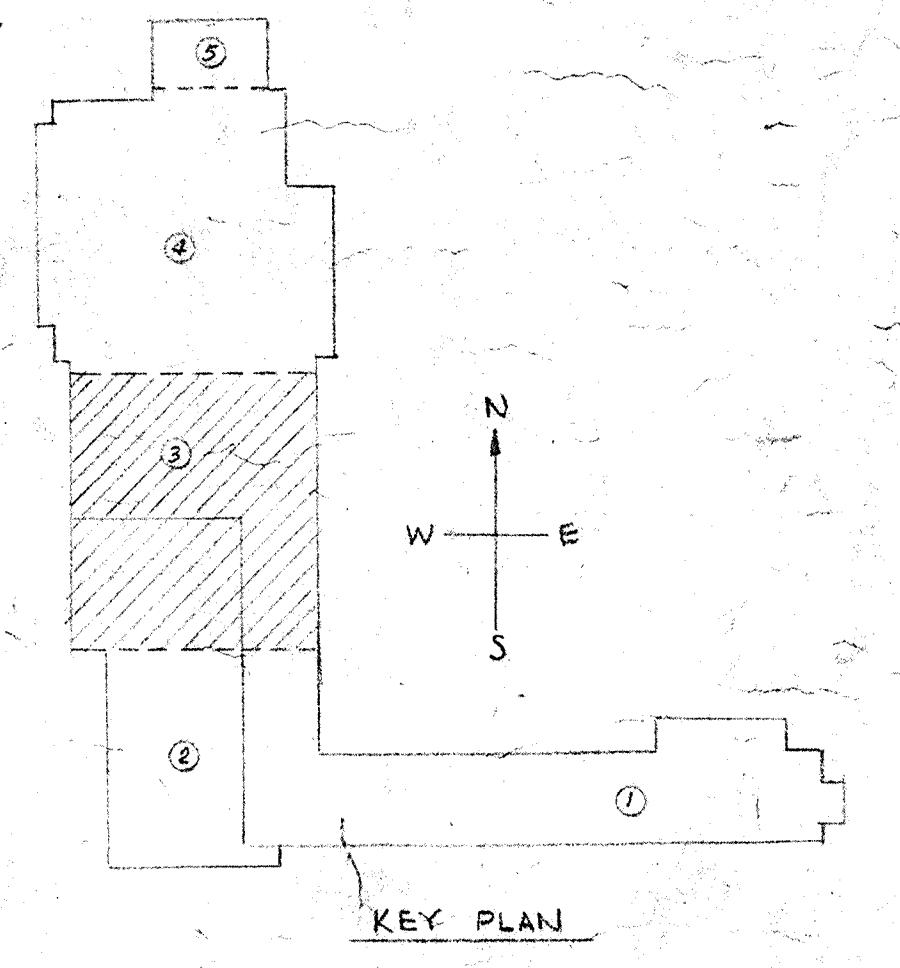
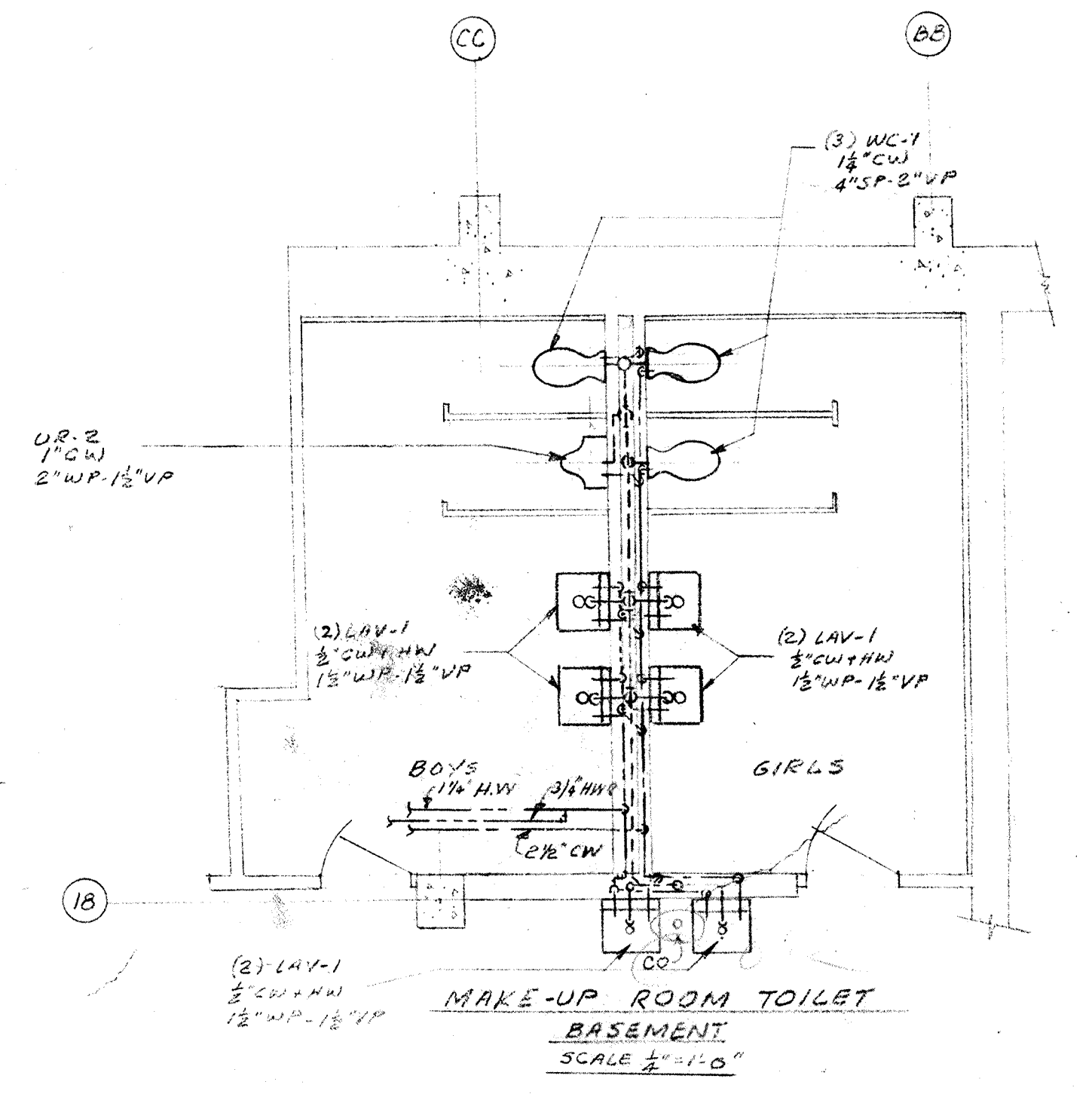
PLUMBING

REVISIONS	DATE
Δ 7-1-63	6-15-63

SECOND FLOOR PART-2		SHEET
DOWNERS GROVE		P 10
SOUTH HIGH SCHOOL		
SCHOOL DISTRICT No 99		
FUGARD, BURT, WILKINSON, & ORTH		COMM.
ARCHITECTS		1118
343 N. MICHIGAN AVE. CHICAGO		
NEILER RICH & BLADEN ENGINEERS		
431 S. DEARBORN CHICAGO ILL.		



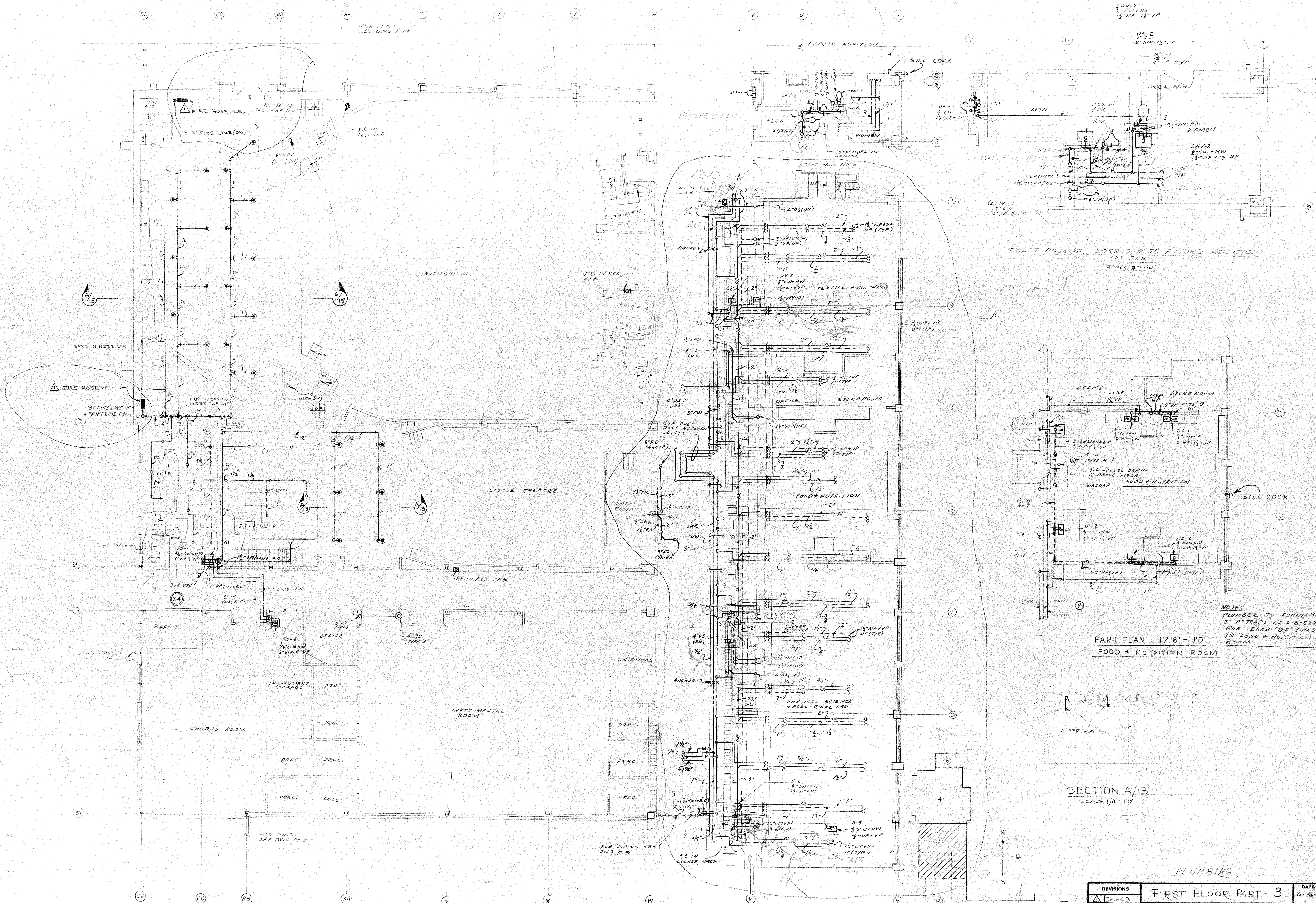
NOTE
TYPE 'G' FLOOR DRAINS
TO BE JOSAM TYPE
300 X W/DEEP SEAL TRAP



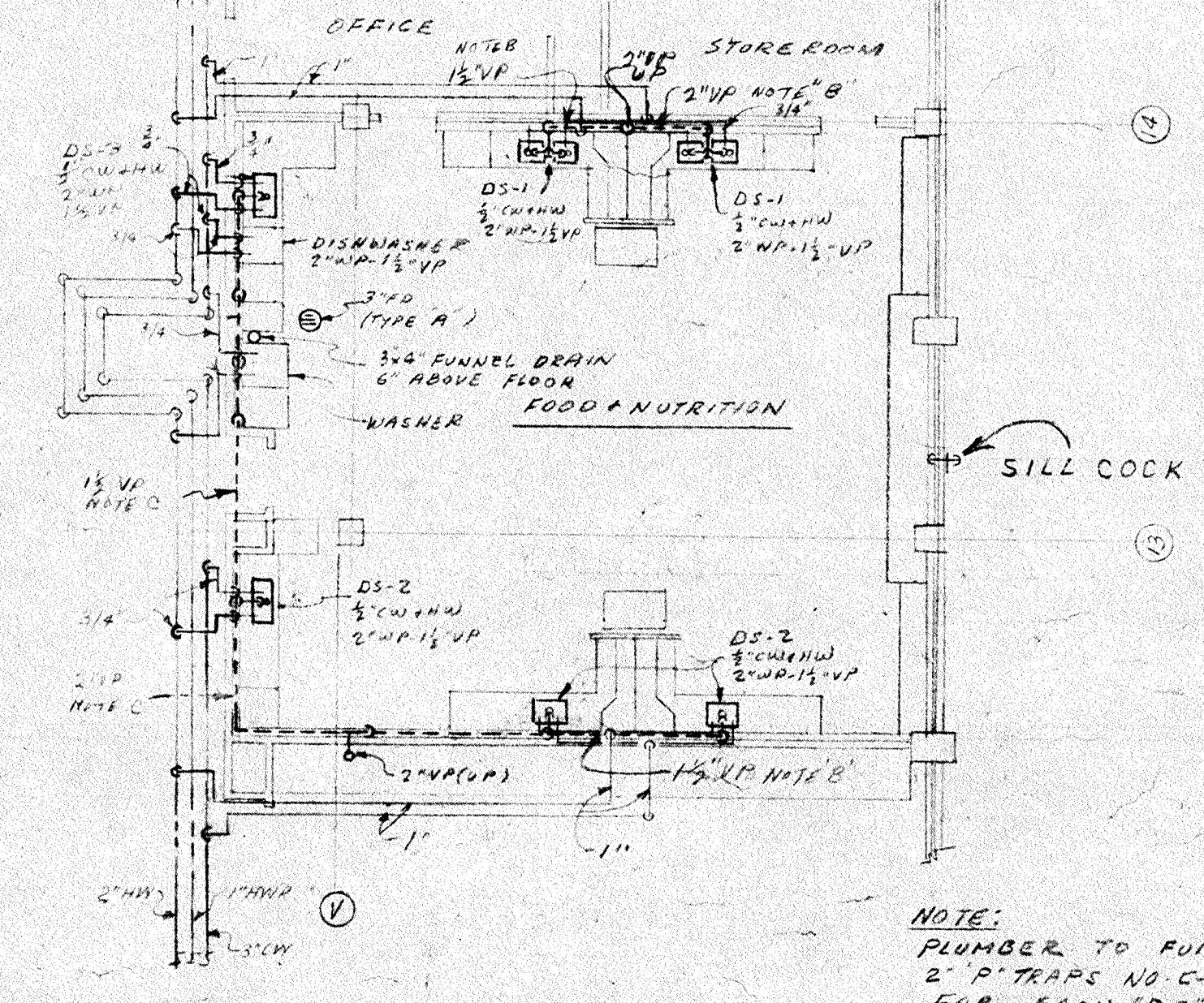
NOTE:
SEE DWG. HY-12 FOR SECTIONS
OF PIPING ARRANGEMENT
IN TUNNEL

PLUMBING

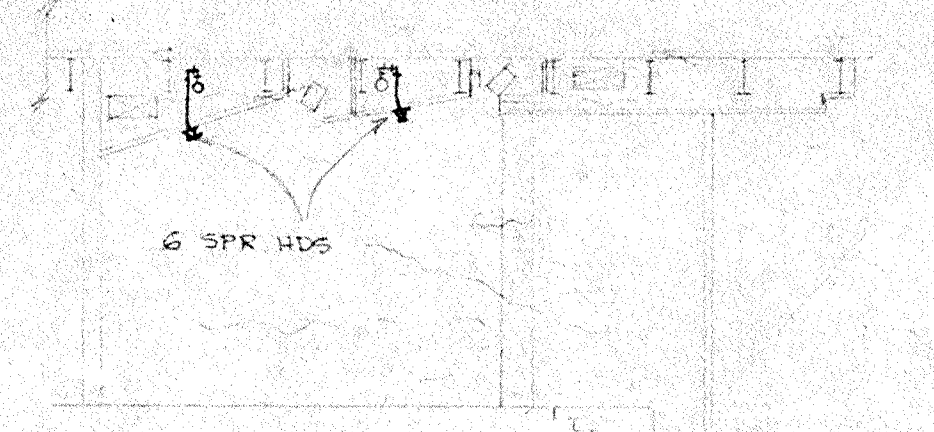
REVISIONS	UNDERGROUND & BSMT. PART-3	DATE
△ 2-1-63		6-15-63
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT No 99	SHEET P12
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 250 N. MICHIGAN AVE. NEILER, RICH & BLADEN ENGINEERS 431 S. DEARBORN, CHICAGO ILL.	COMM. 1118



TOILET ROOM AT CORRIDOR TO FUTURE ADDITION
1ST FLR
SCALE 1/8" = 1'-0"



PART PLAN 1/8" = 1'-0"
FOOD + NUTRITION ROOM



SECTION A/13
SCALE 1/8" = 1'-0"

NOTE:
PLUMBER TO FURNISH
2" TRAPS NO. C-8-S270
FOR EACH "DS" SINKS
IN FOOD + NUTRITION
ROOM

PLUMBING

REVISIONS	DATE
Δ 7-1-63	6-15-63

FIRST FLOOR PART - 3

**DOWNERS GROVE
SOUTH HIGH SCHOOL
SCHOOL DISTRICT No 99**

**FUGARD, BURT, WILKINSON, & ORTH
ARCHITECTS
110 N. RICHMOND AVE.
CHICAGO**

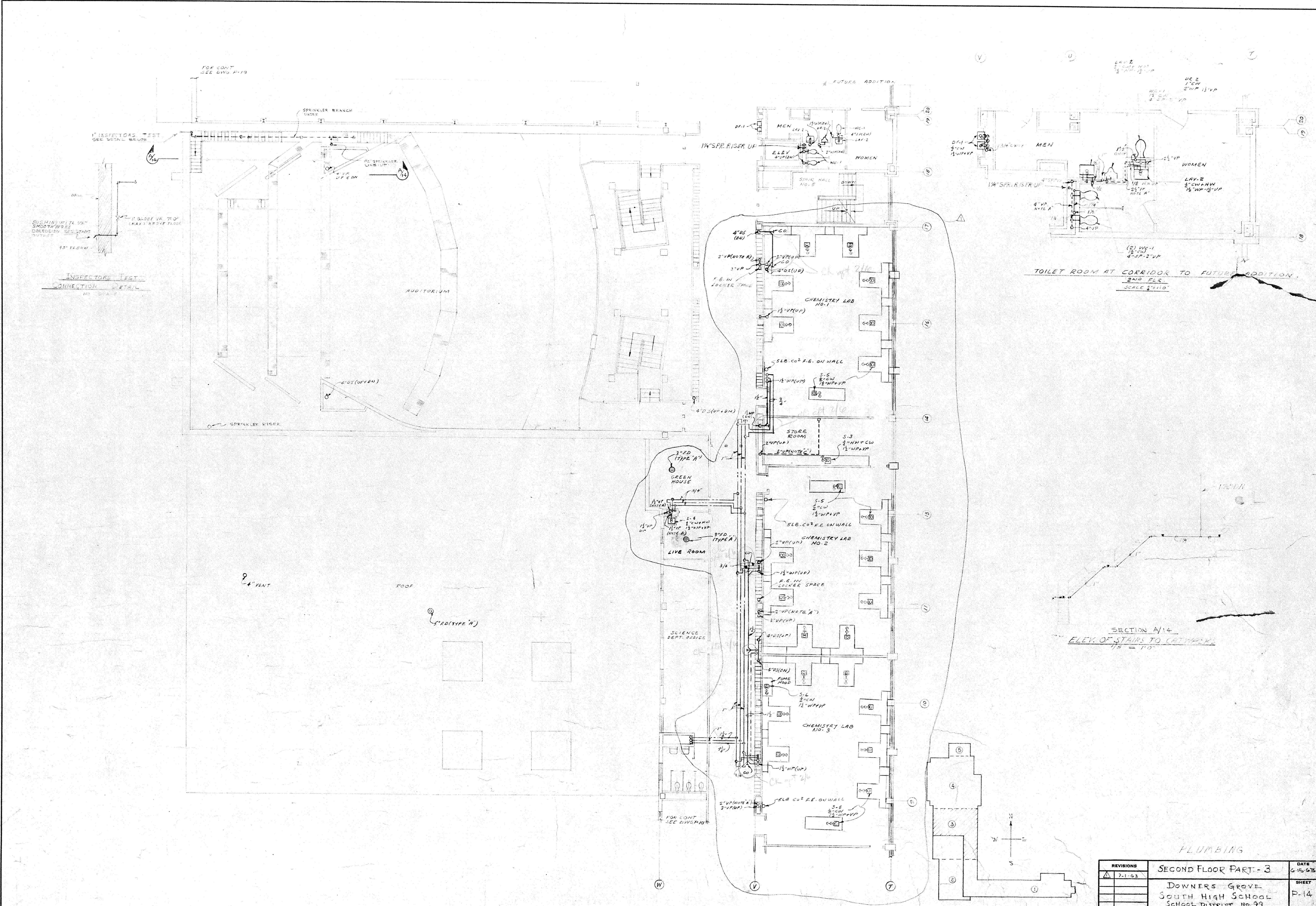
**NEILER, RICH & BLADEN ENGINEERS
431 S. DEARBORN CHICAGO ILL.**

**SHEET
P13
11/5**

SCALE 3/8" = 1'-0"

KEY PLAN

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FOR CONT. SEE DWG. P-13

INSPECTOR'S TEST CONNECTION DETAIL

SPRINKLER BRANCH

AUDITORIUM

1/4" SPR. RISER UP

4" BS (DW)

2" VP (NOTE A)

3" VP

1" E. IN LOCKER SPACE

4" DS (UP DN)

3" VP (UP)

2" VP (UP)

1" E. IN LOCKER SPACE

3" VP (UP)

2" VP (UP)

1" E. IN LOCKER SPACE

3" VP (UP)

2" VP (UP)

1" E. IN LOCKER SPACE

3" VP (UP)

2" VP (UP)

1" E. IN LOCKER SPACE

3" VP (UP)

2" VP (UP)

1" E. IN LOCKER SPACE

3" VP (UP)

2" VP (UP)

1" E. IN LOCKER SPACE

3" VP (UP)

2" VP (UP)

1" E. IN LOCKER SPACE

3" VP (UP)

2" VP (UP)

1" E. IN LOCKER SPACE

3" VP (UP)

2" VP (UP)

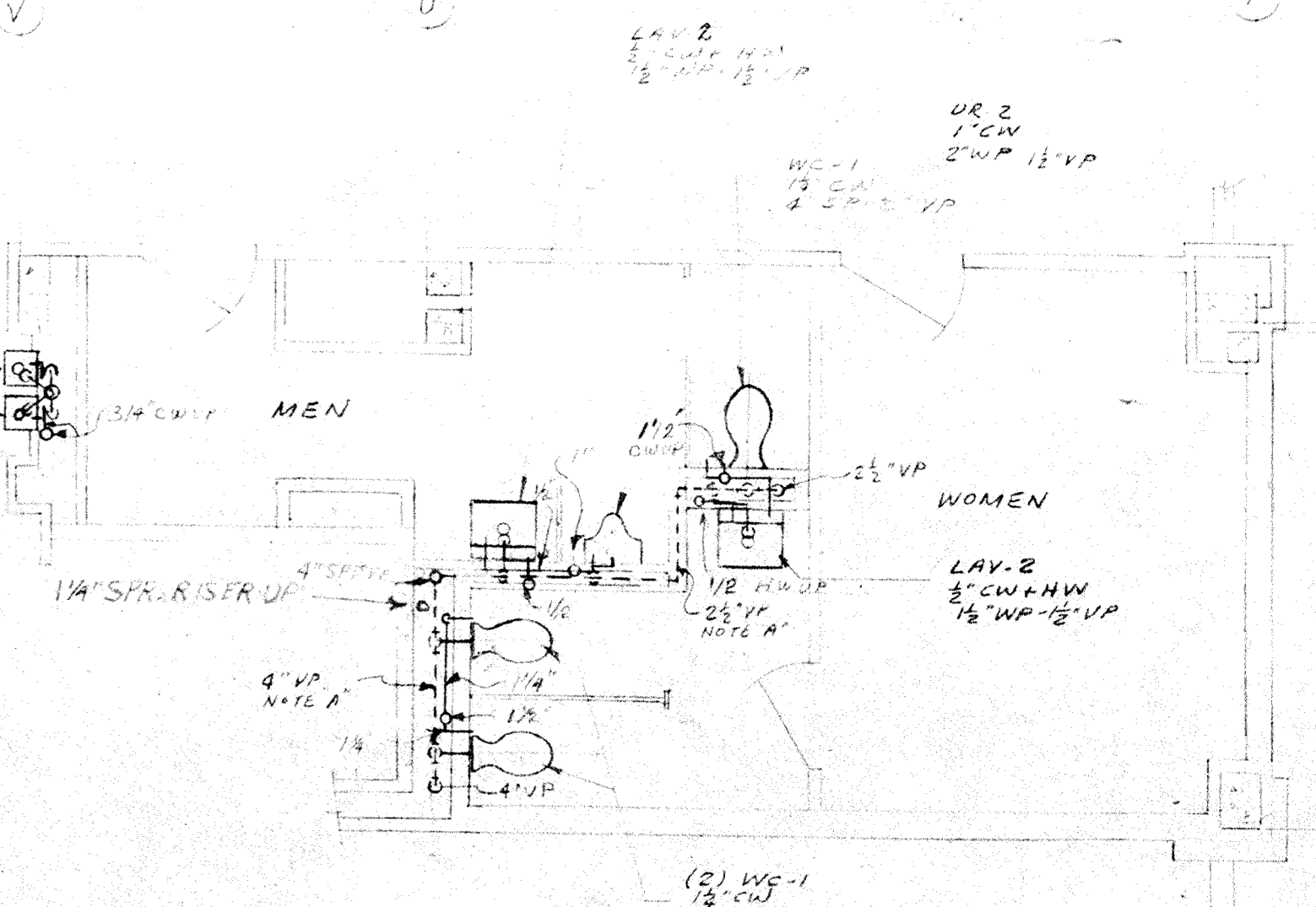
1" E. IN LOCKER SPACE

3" VP (UP)

2" VP (UP)

1" E. IN LOCKER SPACE

3" VP (UP)



TOILET ROOM AT CORRIDOR TO FUTURE ADDITION. 2ND FLR. SCALE 1/8" = 1'-0"

SECTION A-14. ELEV. OF STAIRS TO CATHEDRAL. 1/8" = 1'-0"

PLUMBING

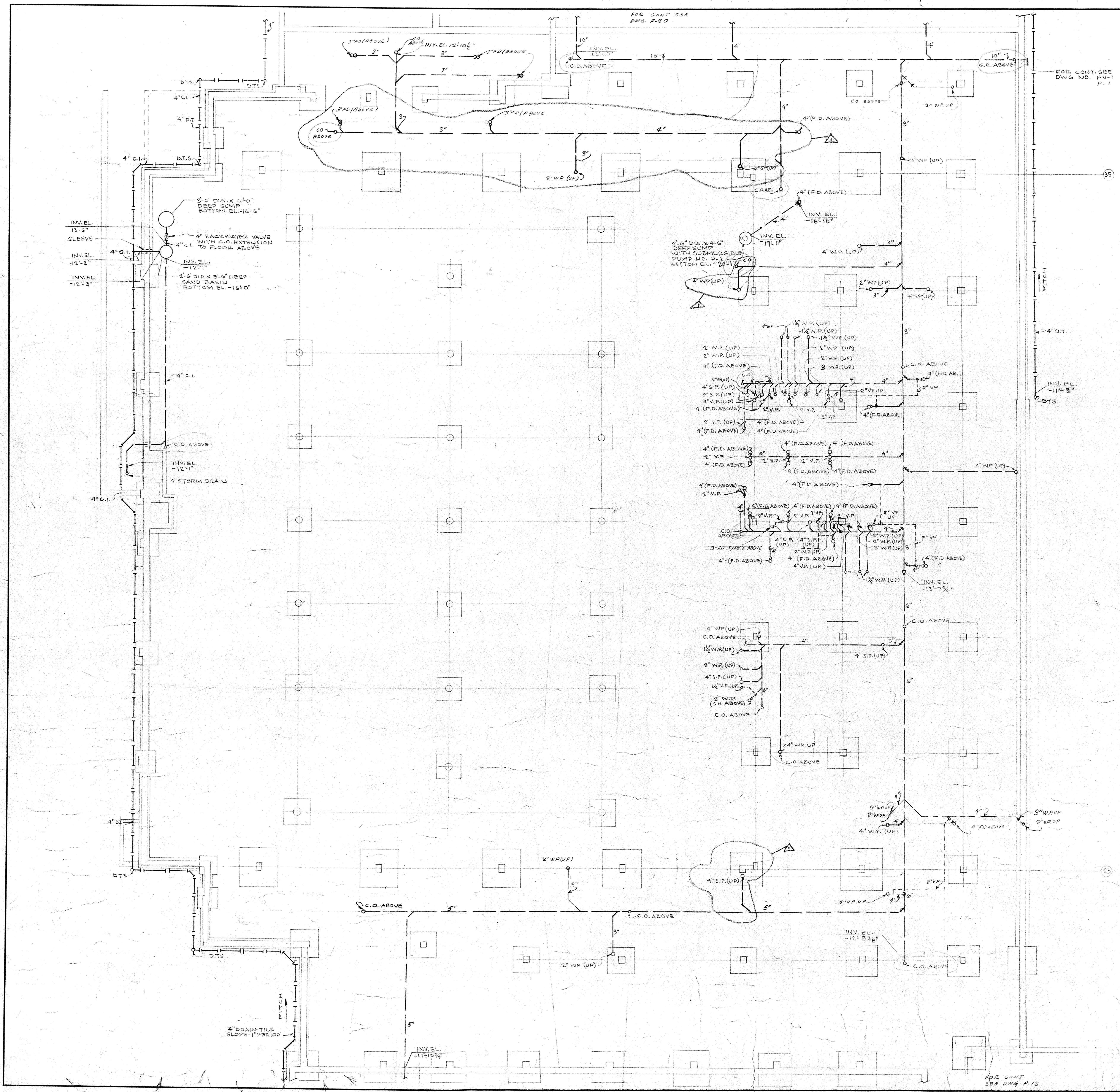
REVISIONS	DATE
1-1-53	6-15-53

SECOND FLOOR PART - 3
 DOWNERS GROVE
 SOUTH HIGH SCHOOL
 School District No. 99

DRAWN BY	FLUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 833 N. BICHMAN AVE. CHICAGO	DATE	6-15-53
TRACED BY	NEILER, RICH & BLADEN ENGINEERS 431 S. DEARBORN CHICAGO ILL.	SHEET	P-14
		COMM.	1118

KEY PLAN

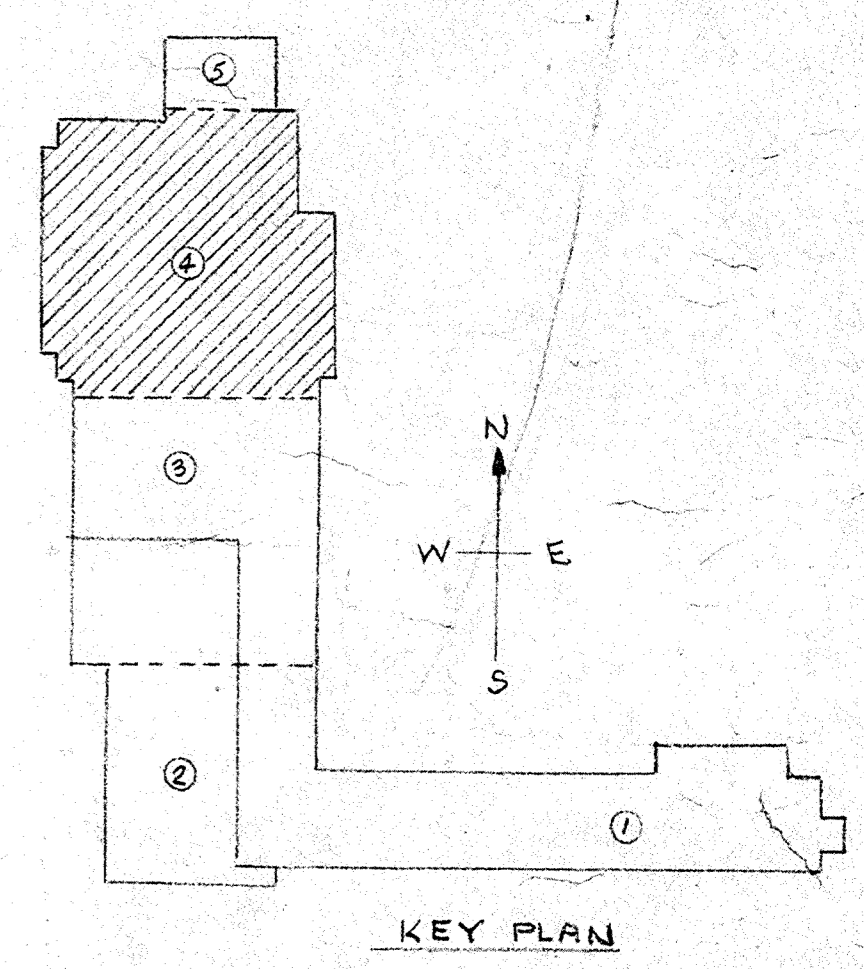
SCALE 1/8" = 1'-0"



FOR CONT. SEE
DWG. P. 10

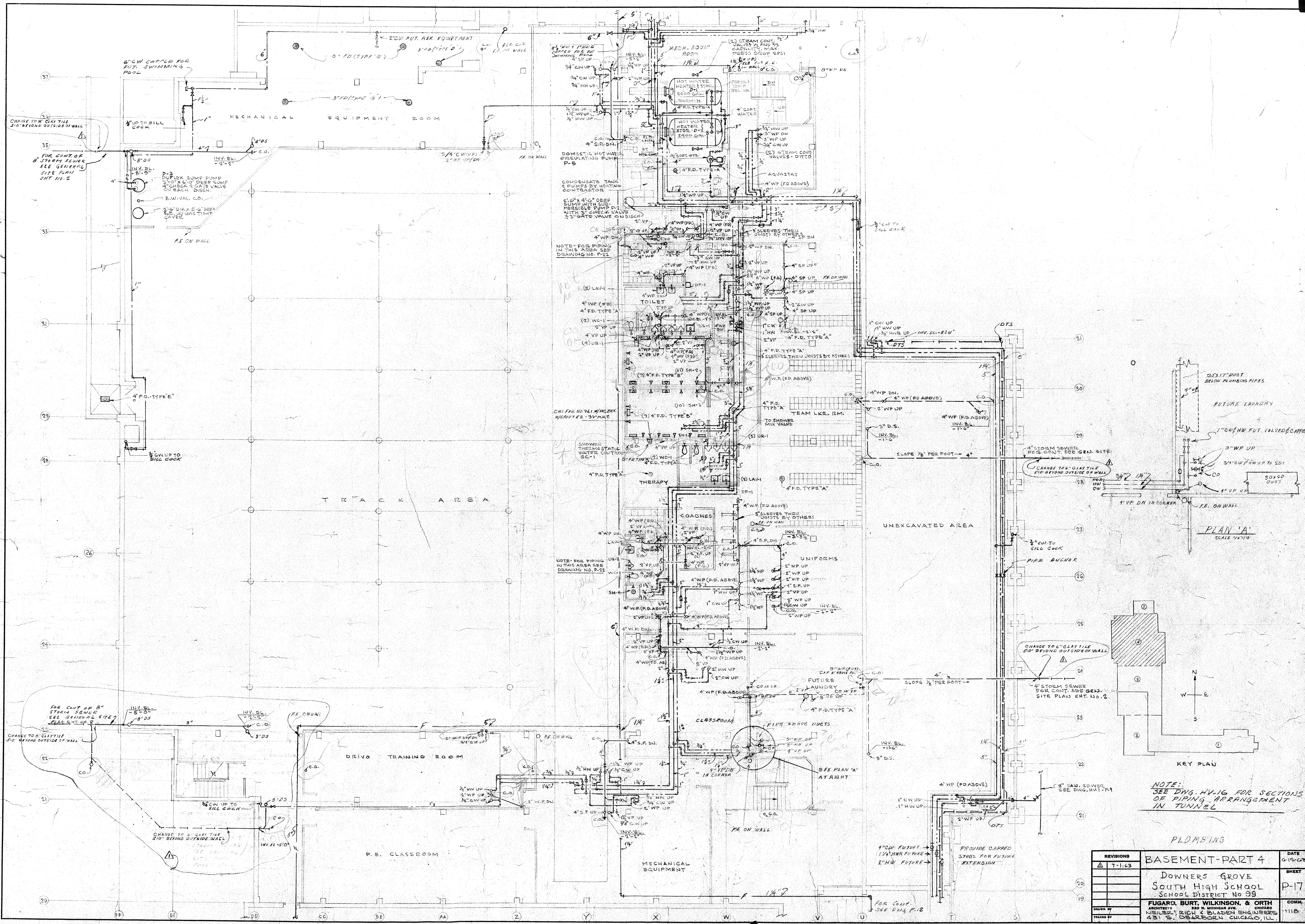
FOR CONT. SEE
DWG. NO. HV-1
P. 1

FOR CONT.
SEE DWG. P. 12



PLUMBING

REVISIONS	UNDERGROUND PART-4	DATE
A		7-1-63
	DOWNS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT NO. 99	SHEET P-16
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 350 N. MICHIGAN AVE. CHICAGO, ILL. 60601	COMM. 1118



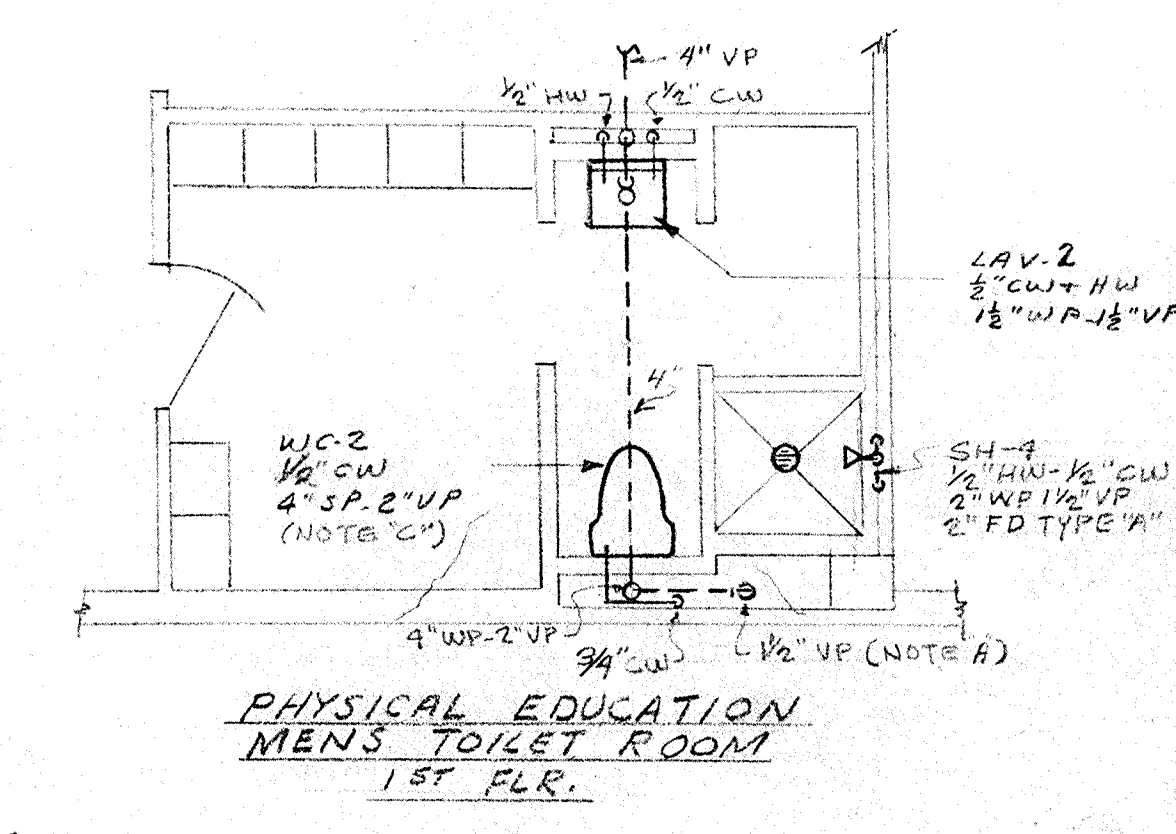
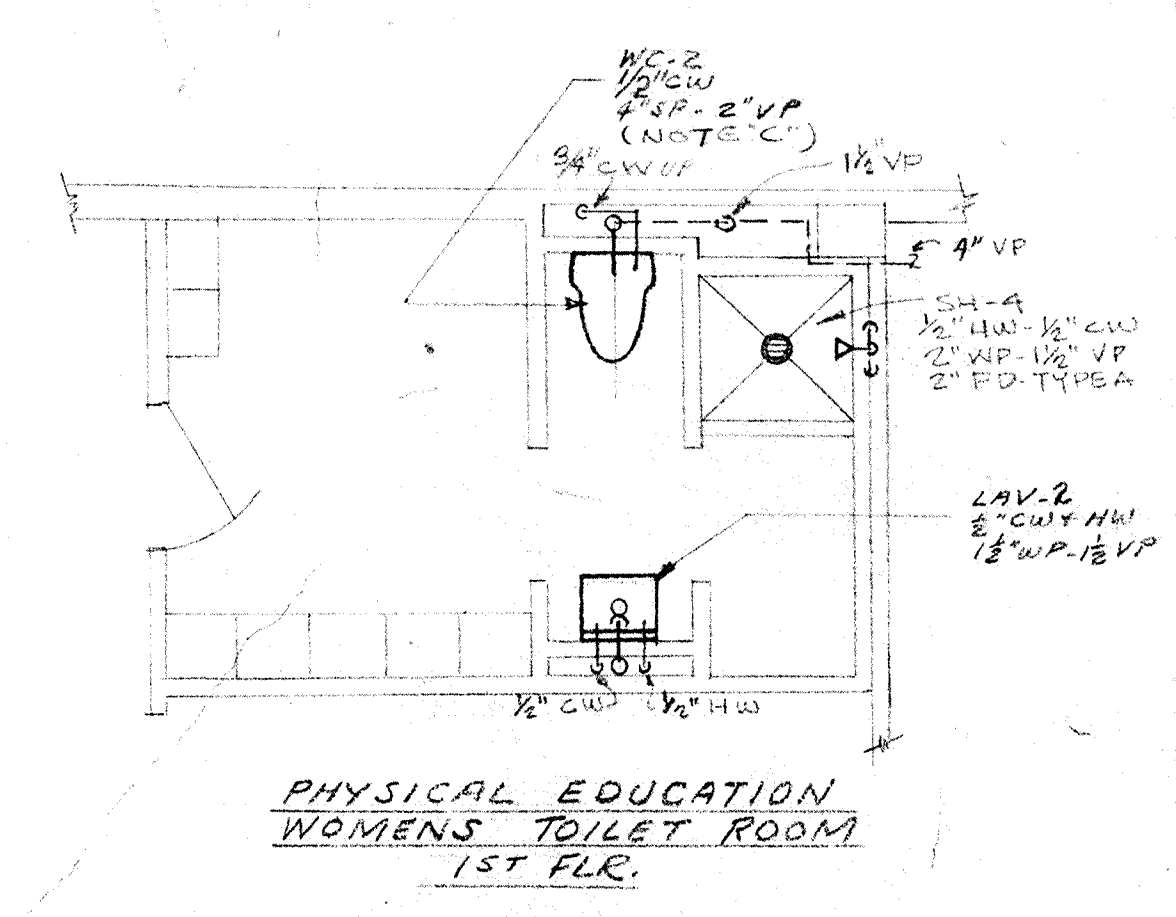
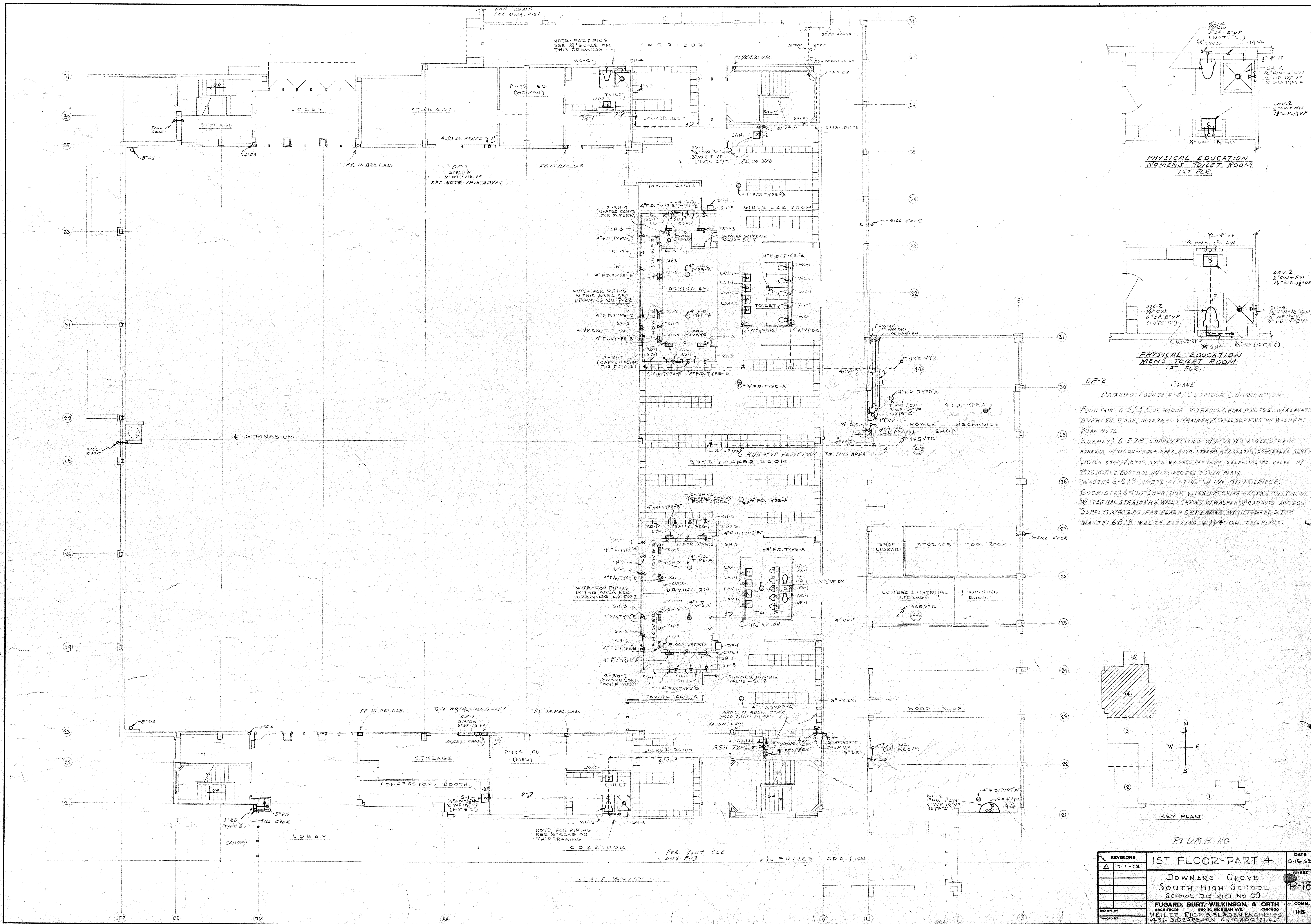
NOTE: SEE DWG. HV-16 FOR SECTIONS OF PIPING ARRANGEMENT IN TUNNEL

PLDMS'ING

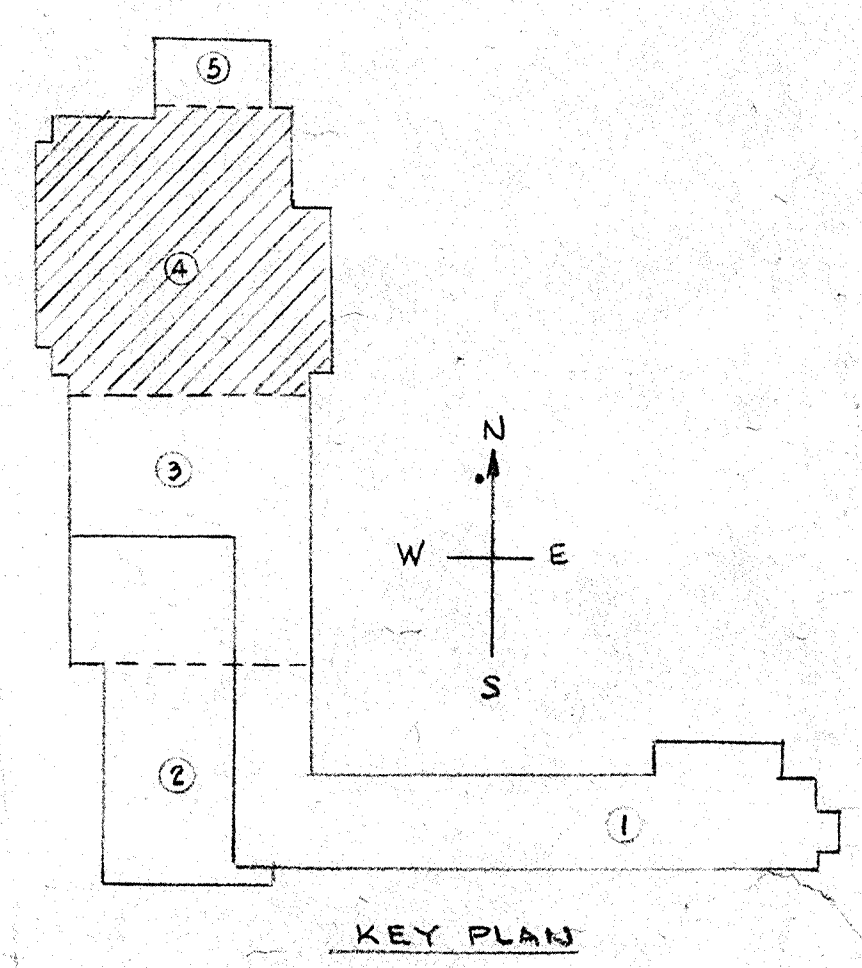
REVISIONS	DATE
7-1-63	6-15-63

BASEMENT-PART 4		DATE	6-15-63
Downers Grove South High School		SHEET	P-17
SCHOOL DISTRICT No 99		COMM.	1118
FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS		CHICAGO	
NEILSON, RICH & BLADEN ENGINEERS		CHICAGO	
431 S. DEARBORN CHICAGO, ILL.			

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DF-2 CRANE
DINKING FOUNTAIN & CUSPIDOR COMBINATION
 FOUNTAIN: 6-575 CORRIDOR VITREOUS CHINA RECESS, W/ ELEVATED BUBBLER BASE, INTEGRAL STRAINER, W/ WALL SCREWS W/ WASHERS
 SUPPLY: 6-578 SUPPLY FITTING W/ PURGED ANGLE STEAM BUBBLER W/ WIND-PROOF BASE, AUTO. STEERING REGULATOR, CONTOURED SCREEN, LAMER STOP, VICTOR TYPE BY-PASS PATTERNS, SELF-CLOSING VALVE, W/ MAGNETIC CONTROL UNIT, ACCESS COVER PLATE
 WASTE: 6-819 WASTE FITTING W/ 1/4" O.D. TAILPIECE
 CUSPIDOR: 4-410 CORRIDOR VITREOUS CHINA RECESS CUSPIDOR W/ INTEGRAL STRAINER & WALL SCREWS W/ WASHERS & CAPNUTS, ACCESS
 SUPPLY: 3/8" S.P.S. FAN FLASH SPREADER W/ INTEGRAL STOP
 WASTE: 6-815 WASTE FITTING W/ 1/4" O.D. TAILPIECE



PLUMBING

REVISIONS	DATE
1. 7-1-63	6-15-63

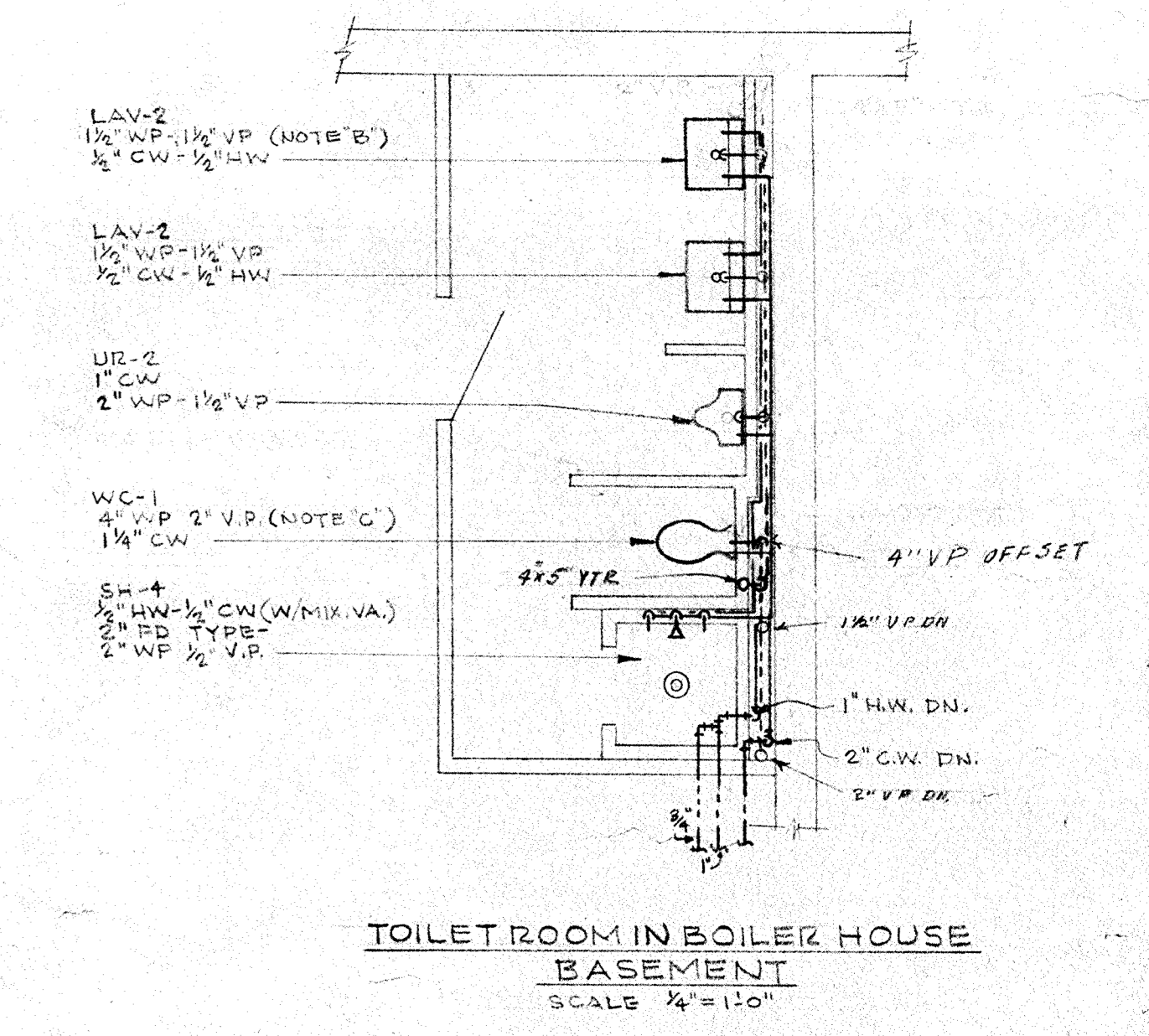
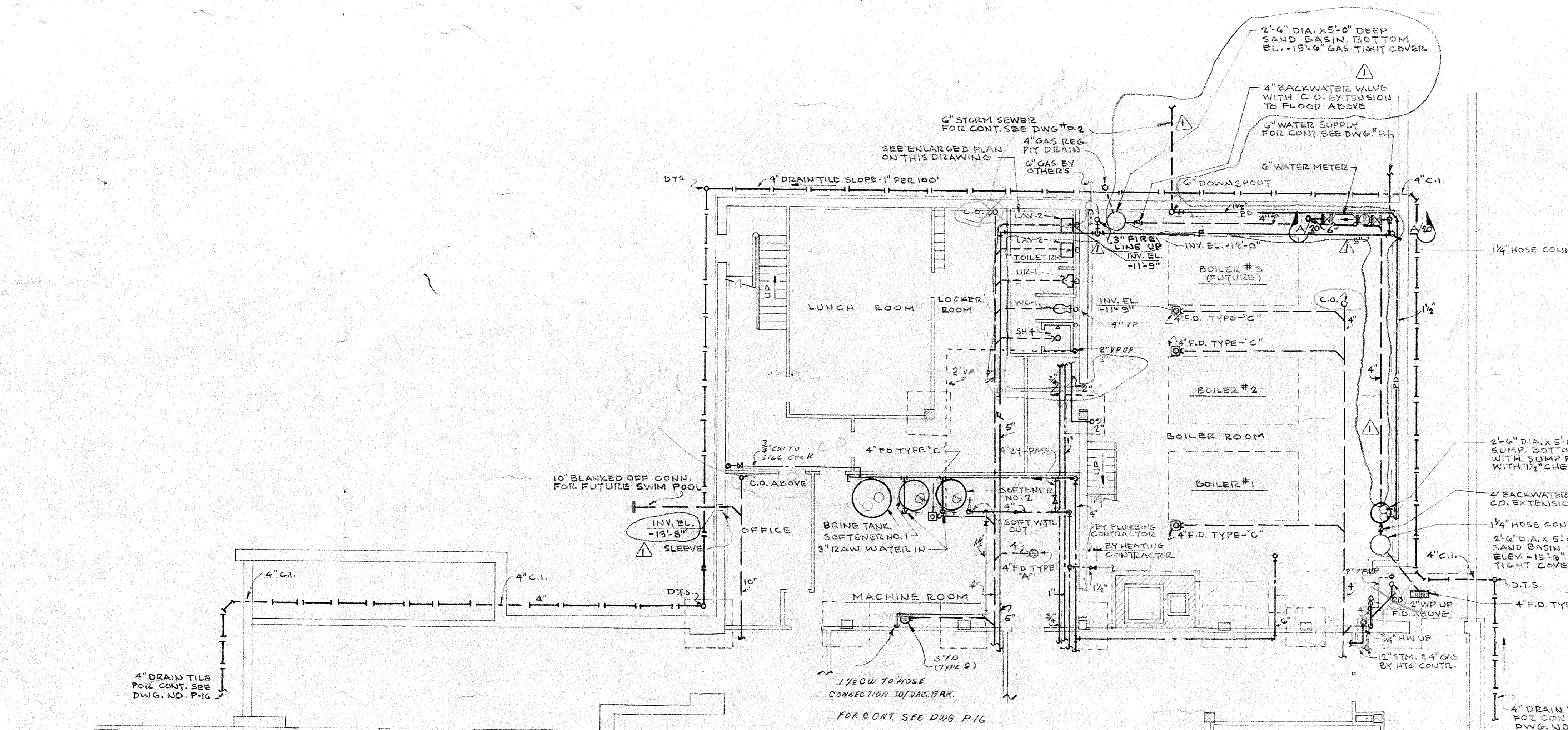
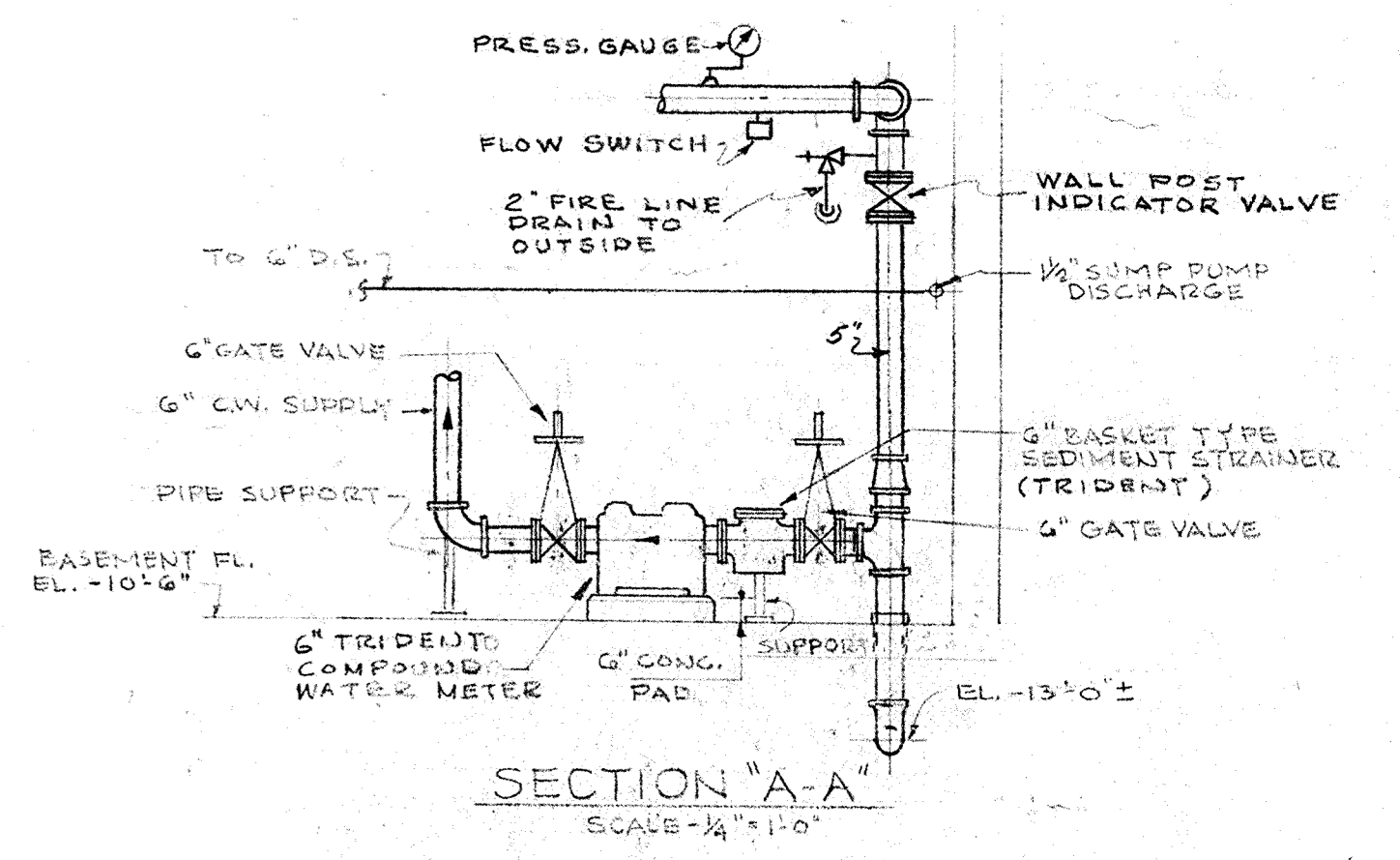
1ST FLOOR-PART 4

DOWNERS GROVE
 SOUTH HIGH SCHOOL
 SCHOOL DISTRICT NO 99

FUGARD, BURT, WILKINSON, & ORTH
 ARCHITECTS
 880 N. MICHIGAN AVE.
 CHICAGO, ILL.

NEILLER, FISH & BLODGEN ENGINEERS
 431 S. DEARBORN CHICAGO, ILL.

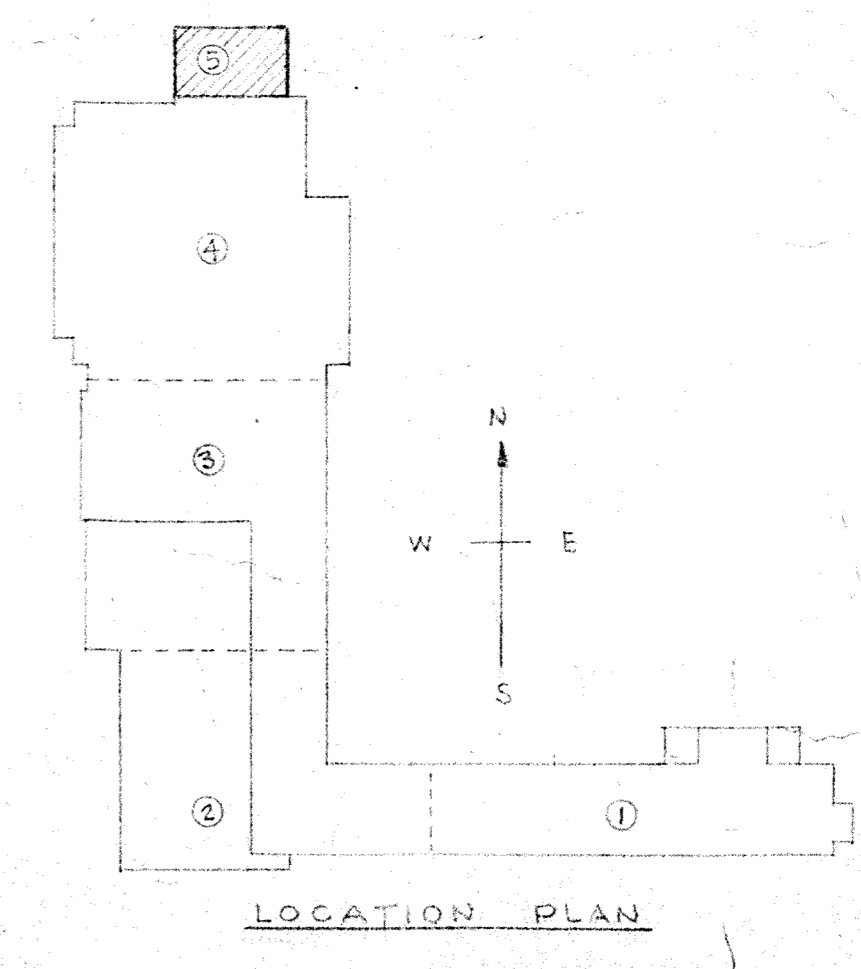
23



- SPRINKLER LEGEND
- UPRAISE SPRINKLER HEAD
 - INVERTED SPRINKLER HEAD
 - ⊙ DOWNCAST SPRINKLER HEAD
 - ⊙ QUARTZ GLO SPRINKLER HEAD

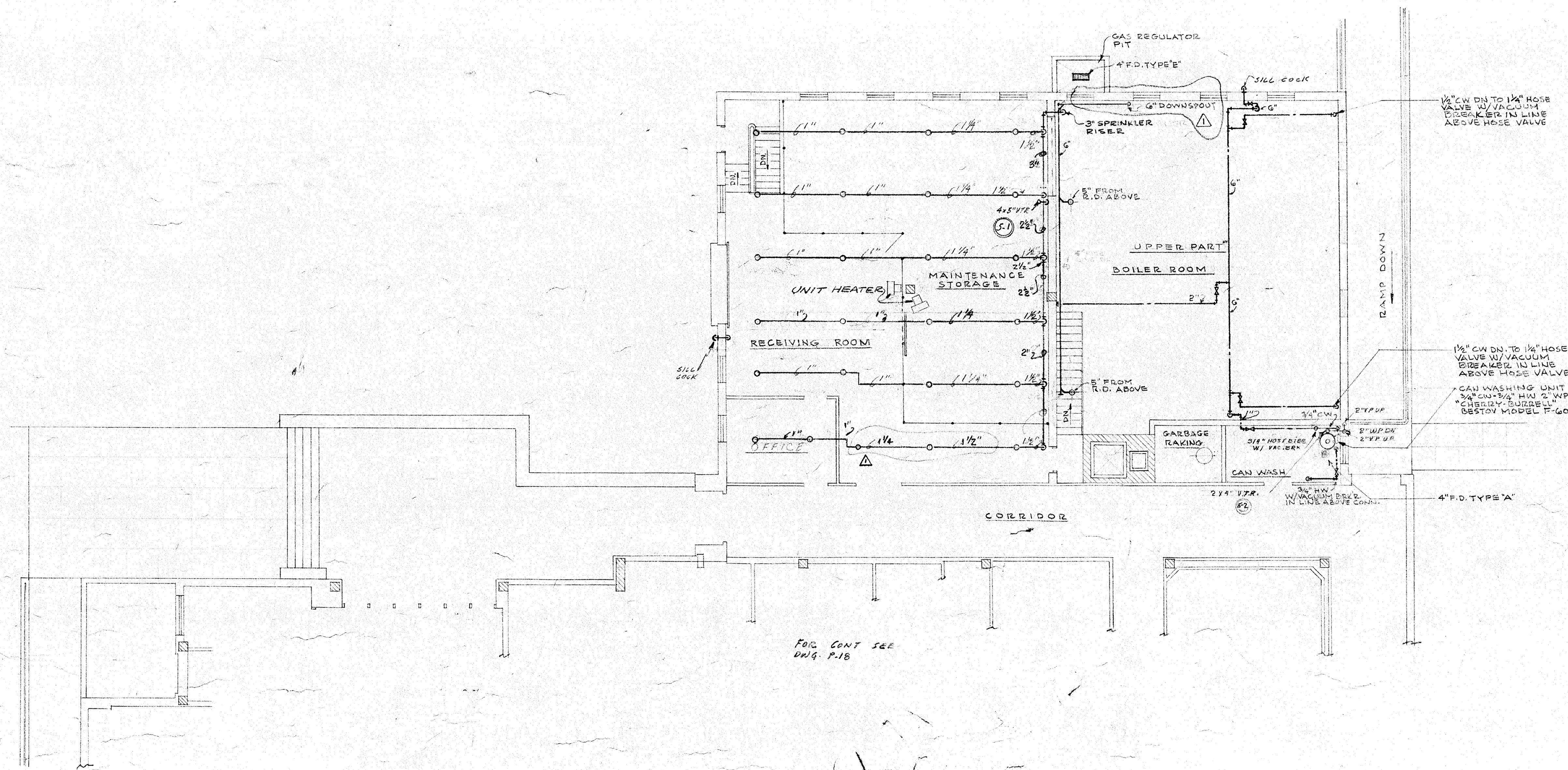
SCHEDULE OF WATER SOFTENER EQUIPMENT

BRINE TANK — 31" DIA. X 60" HIGH
 SOFTENER TANKS — TWO (2) EACH 42" DIA. X 60" HIGH
 SOFTENER CAPACITY EACH UNIT — 864,000 GRAINS
 BASED ON 10 GRAIN HARDNESS BETWEEN REGENERATION
 AT SUSTAINED FLOW RATE OF 144 GPM & PRESSURE
 DROP NOT TO EXCEED 13.8 P.S.I.G.



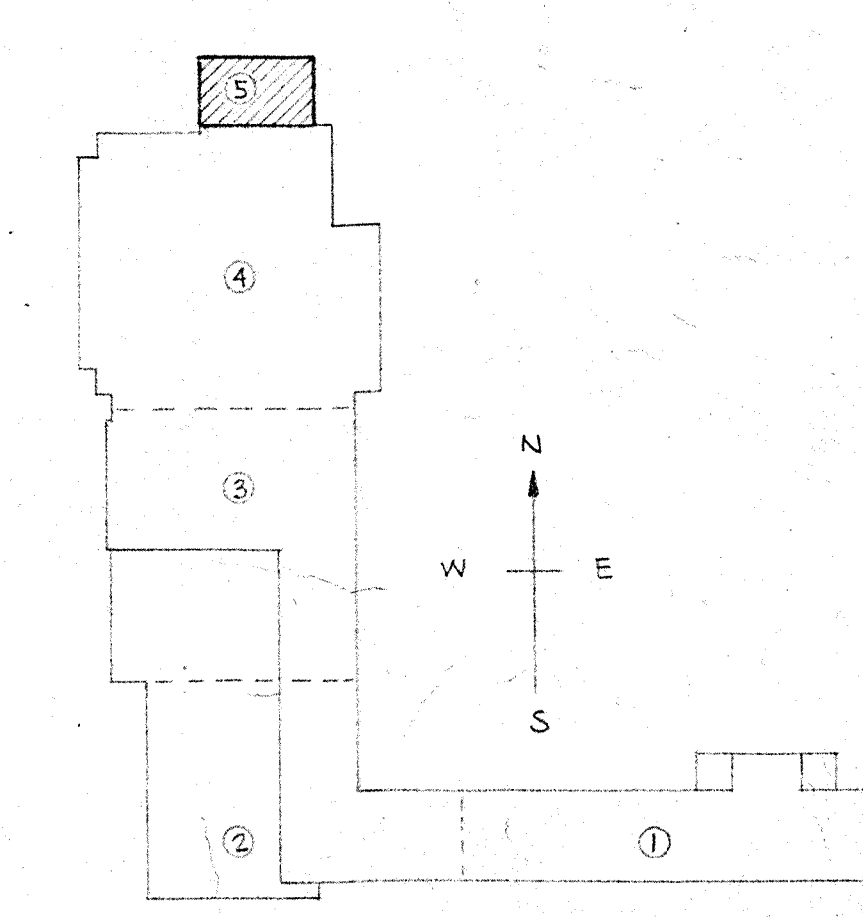
REVISIONS	UNDERGROUND & BSMT. PART-5	DATE
Δ 7-1-63		6-15-63
	Downers Grove South High School School District No 99	P-20
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 822 N. MICHIGAN AVE. CHICAGO	COMM.
	NEILER RICH & BLADEN ENGINEERS 431 S. DEARBORN - CHICAGO ILL.	1118

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FOR CONT SEE
DWG. P-18

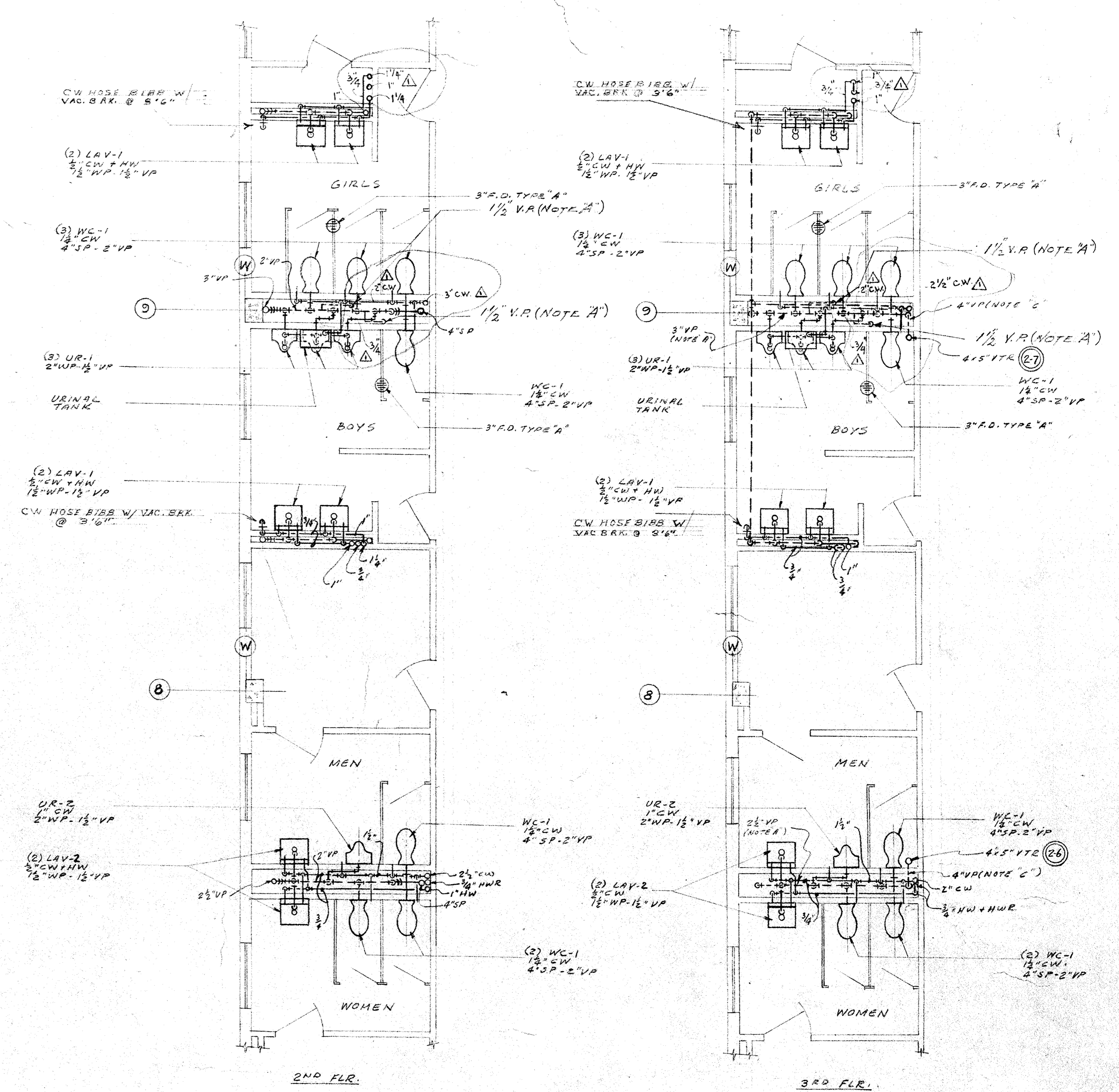
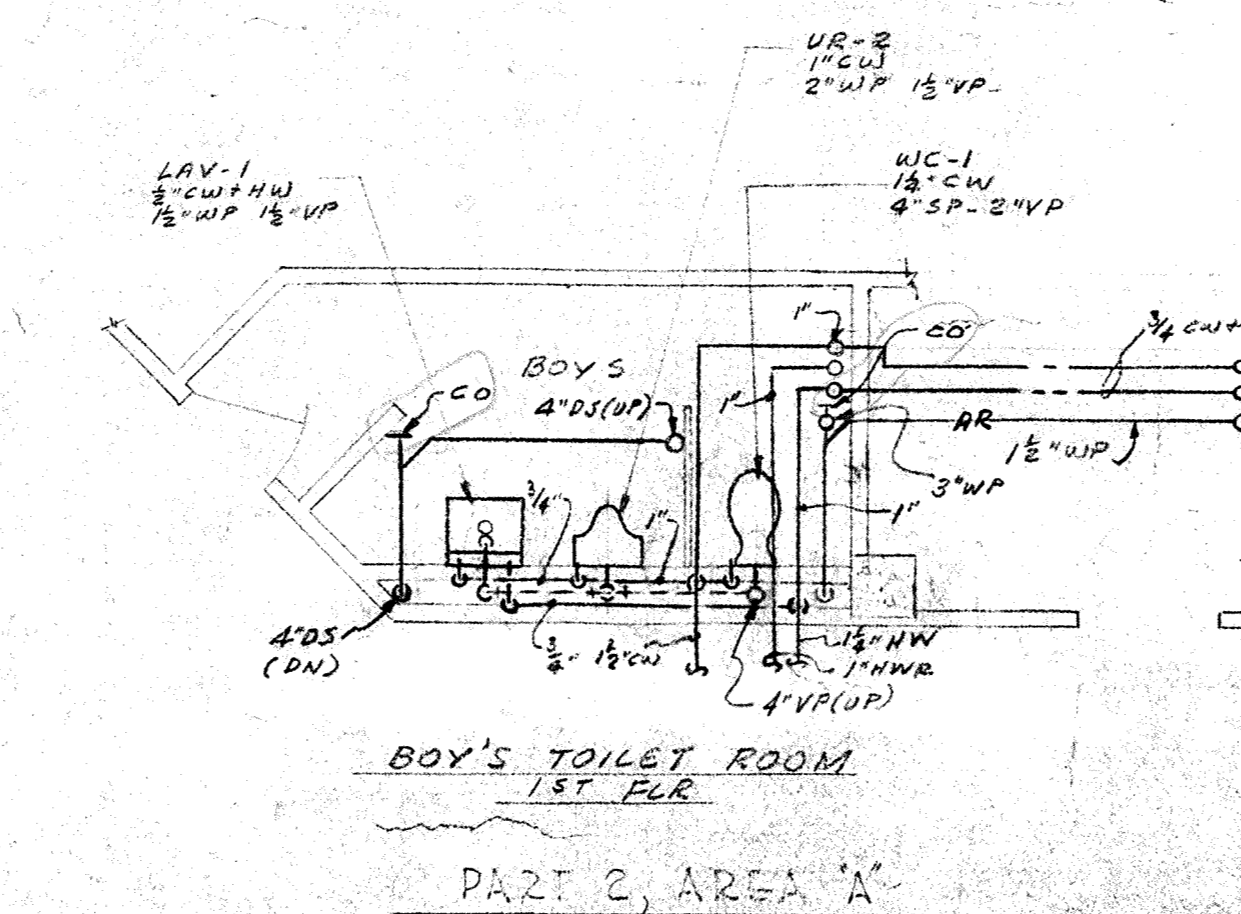
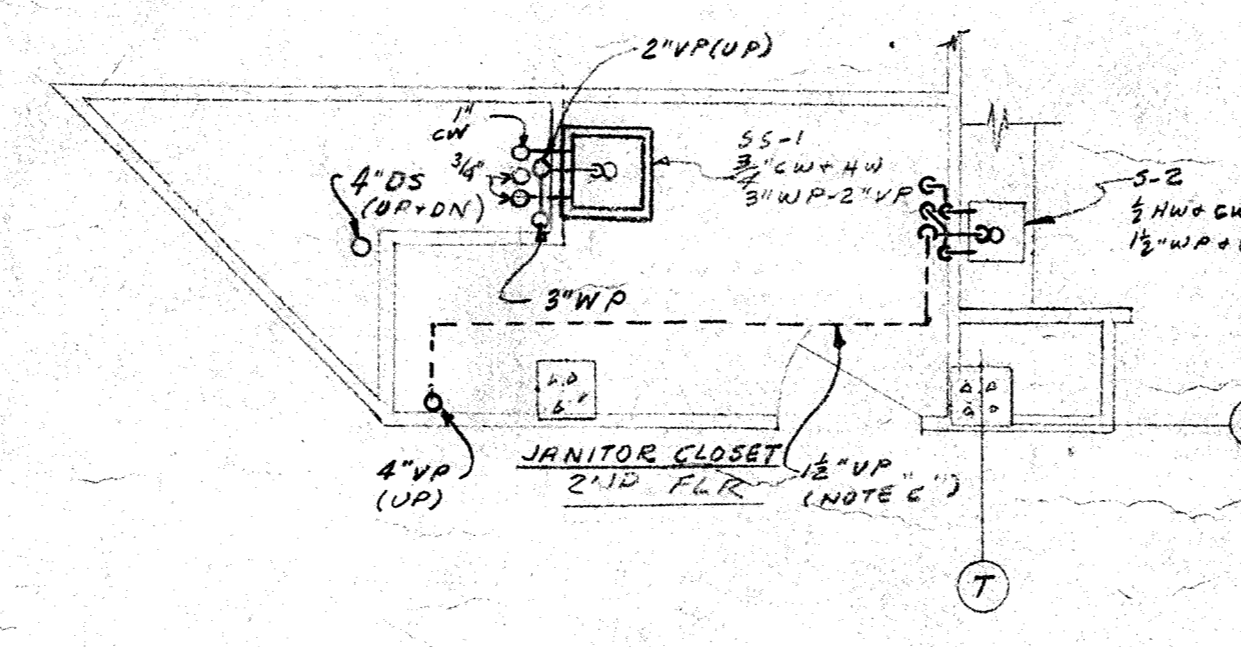
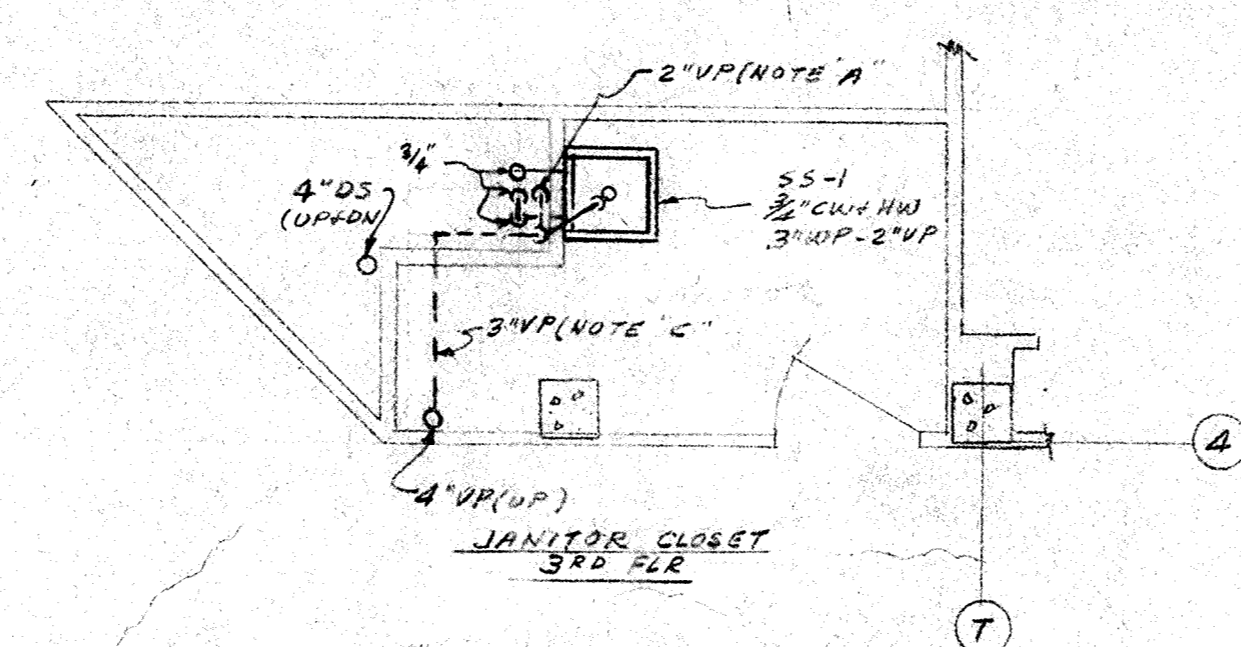
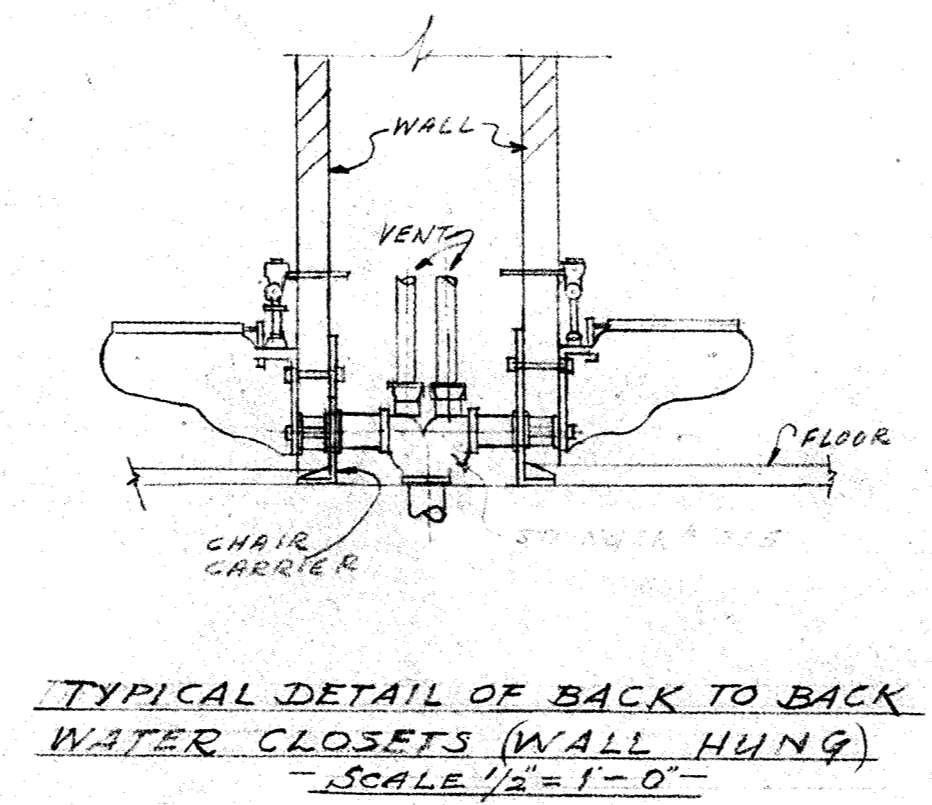
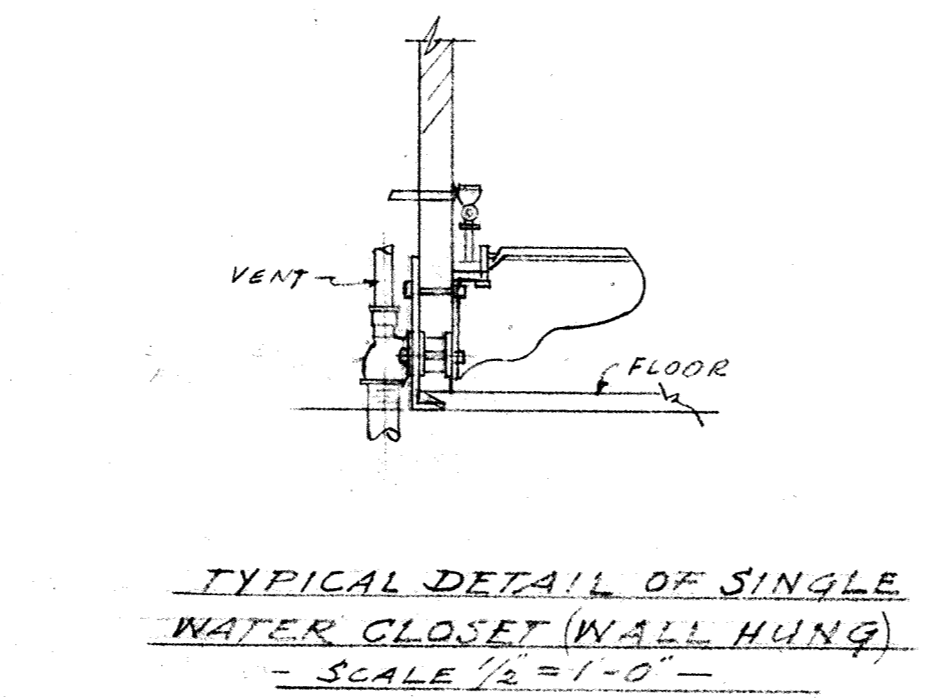
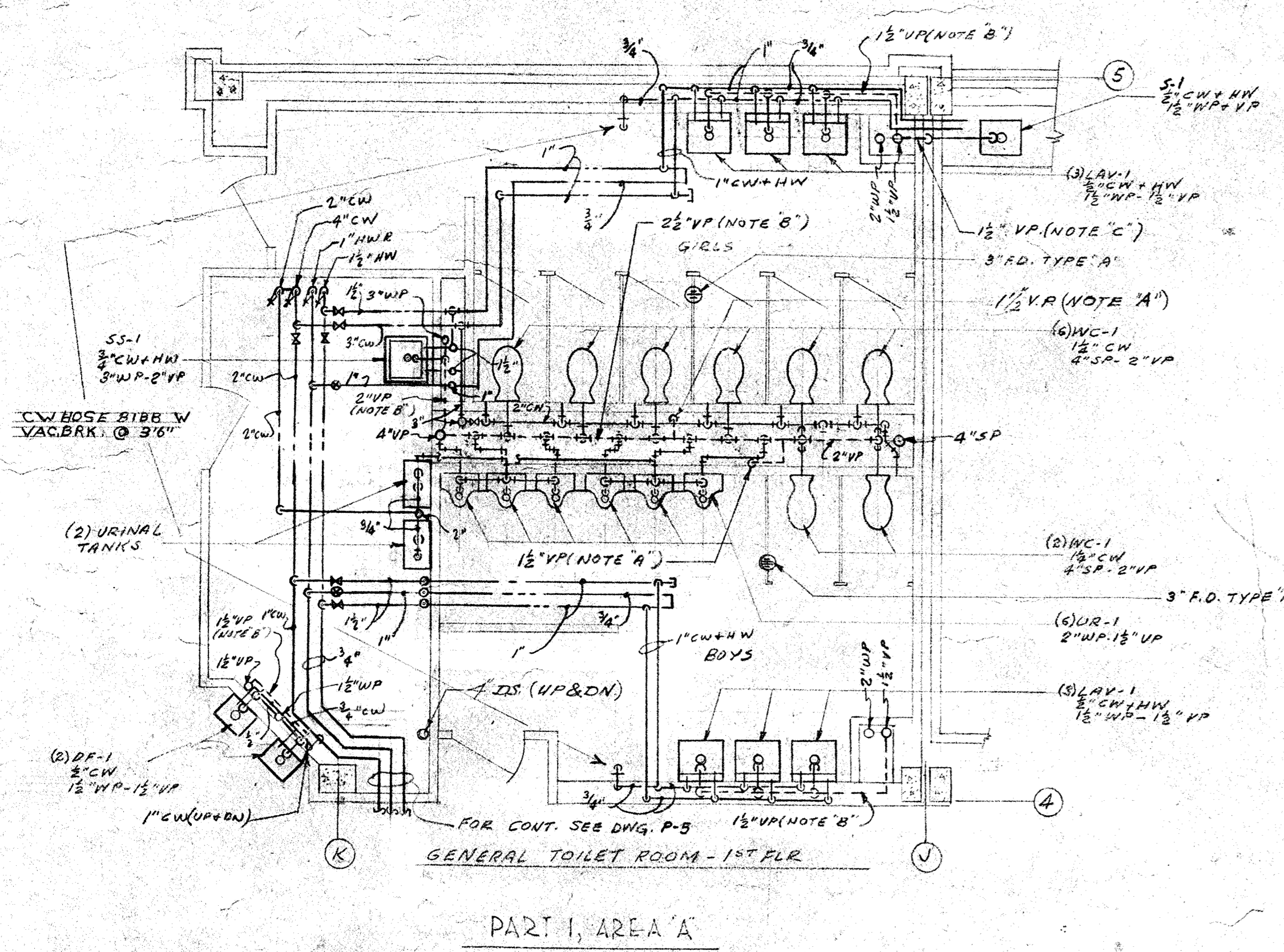
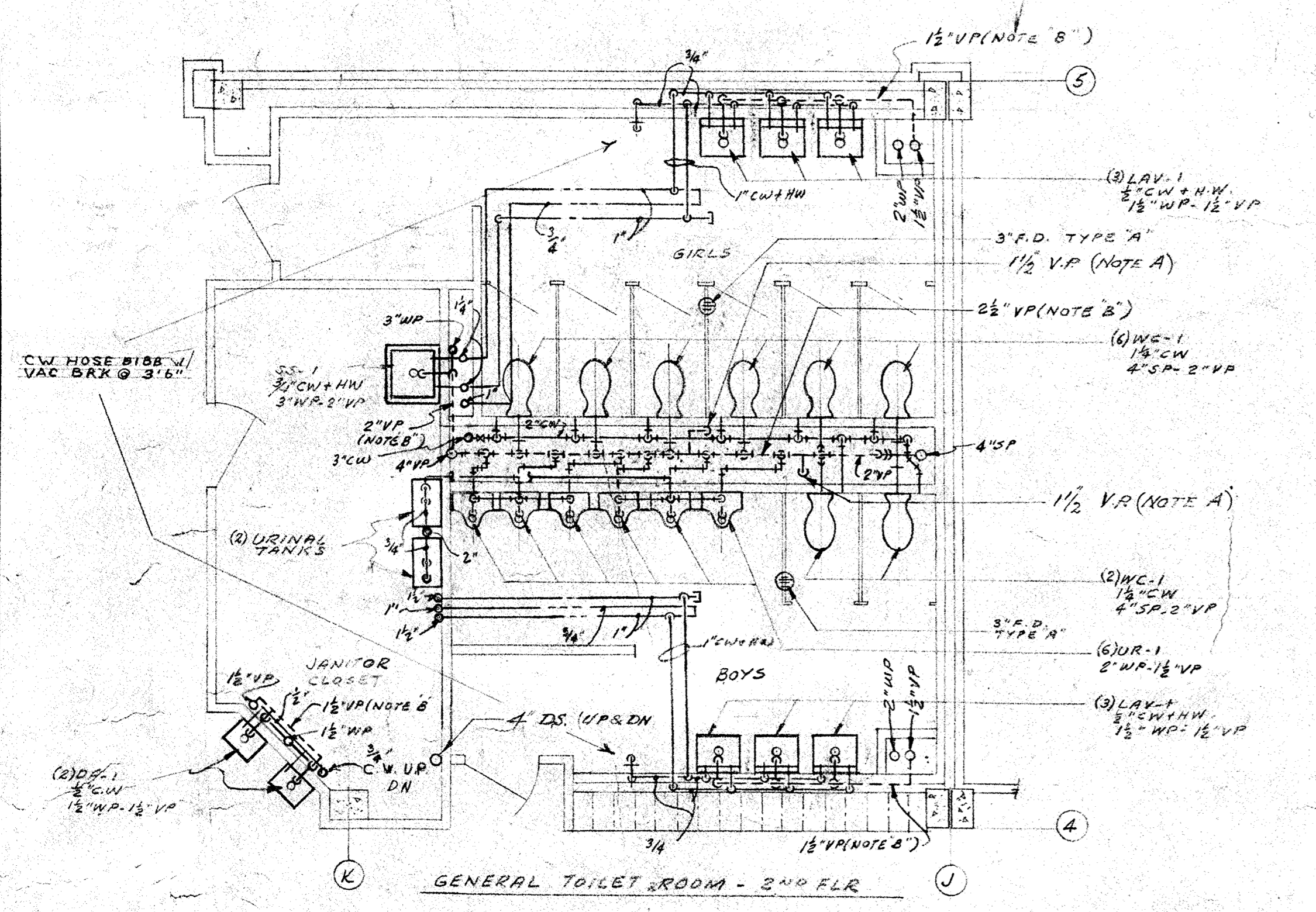
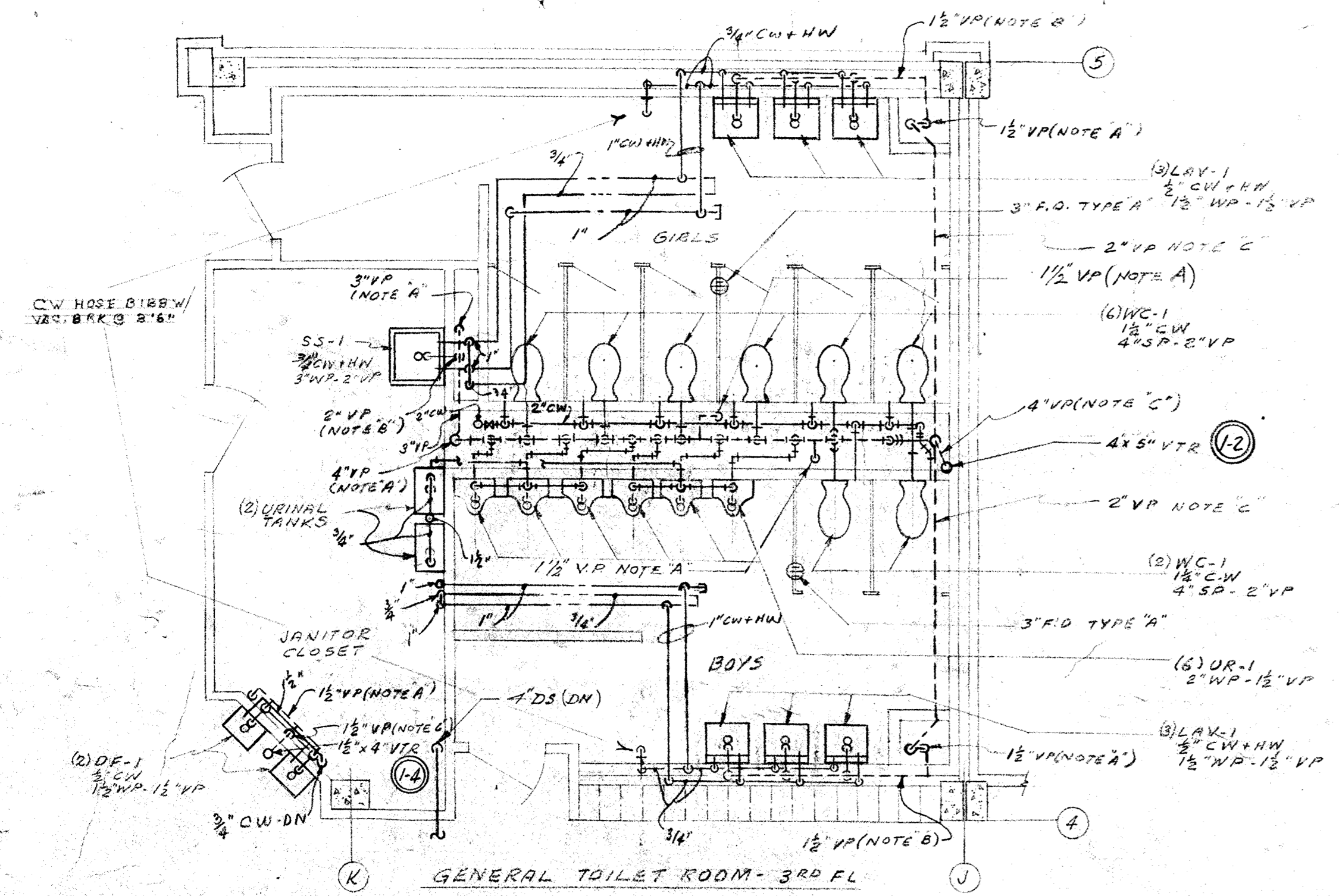
SCALE 1/8"=1'-0"



LOCATION PLAN

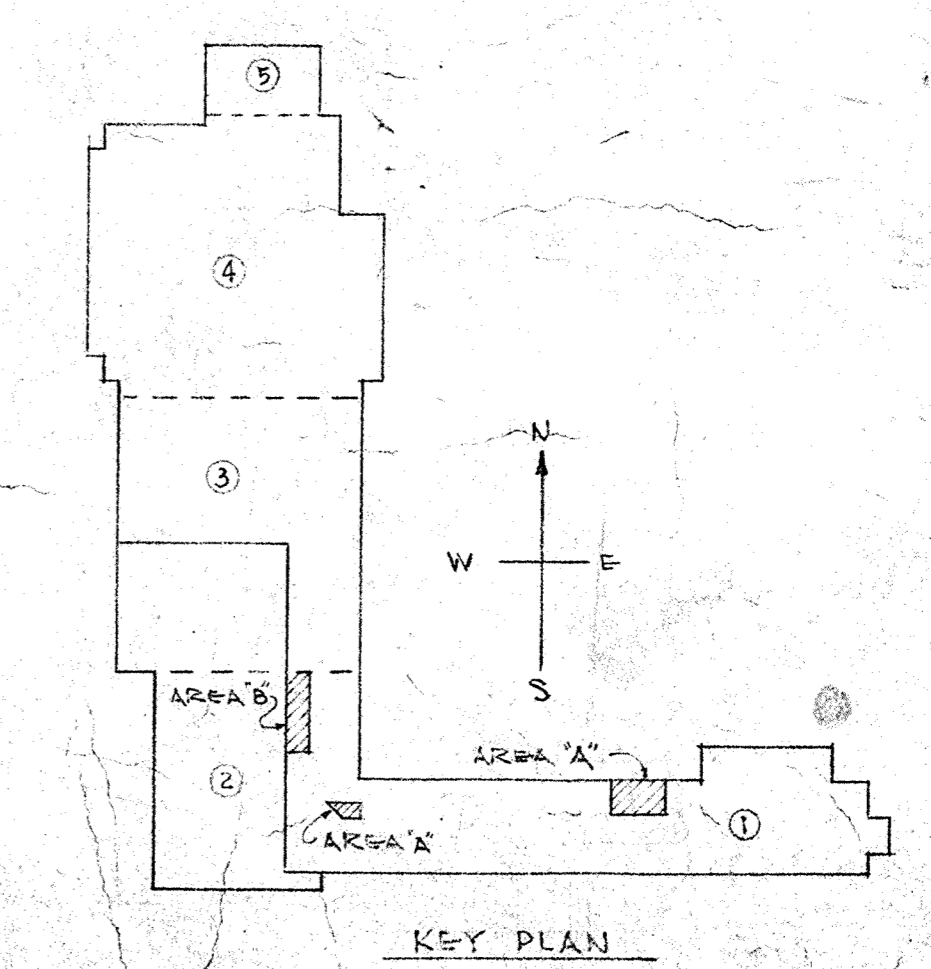
PLUMBING

REVISIONS	FIRST FLOOR PART 5	DATE
A	7-1-63	6-15-63
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT No 99	SHEET P21
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 820 N. MICHIGAN AVE. CHICAGO NEHLER, RICH & BLADEN ENGINEERS 431 S. DEARBORN CHICAGO ILL.	COMM. 1118



TOILET ROOMS ABOVE CAFETERIA

PART 2 AREA B



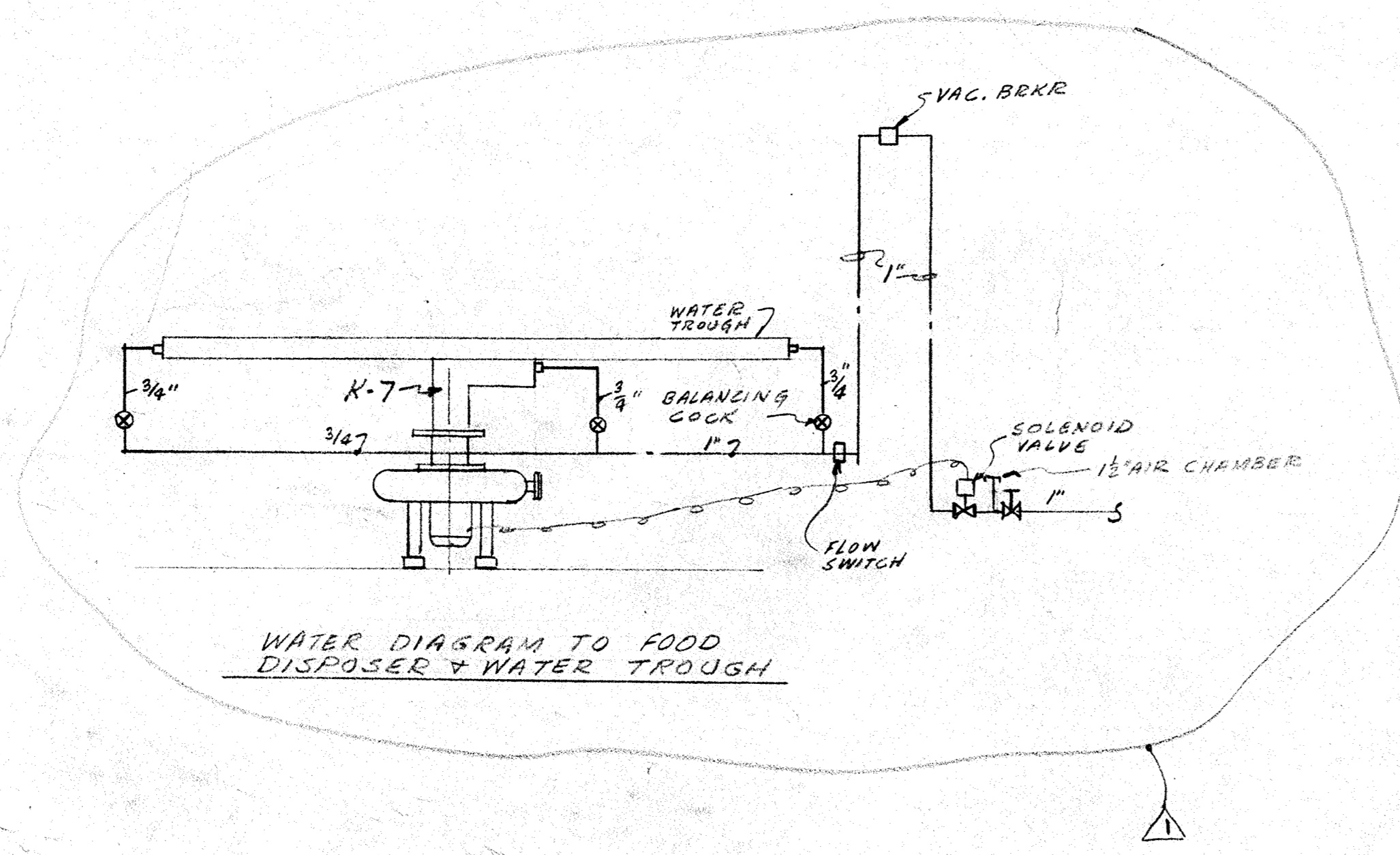
REVISIONS			TOILETS 1/4" SCALE		DATE
Δ	7-1-63				6-15-63
					SHEET
					P.23
DRAWN BY					COMM.
FUGARD, BURT, WILKINSON & ORTH					1118
ARCHITECTS					
NEILER RICH & BLADEN ENGINEERS					
431 S. DEARBORN CHICAGO ILL.					

PLUMBING

TOILETS 1/4" SCALE

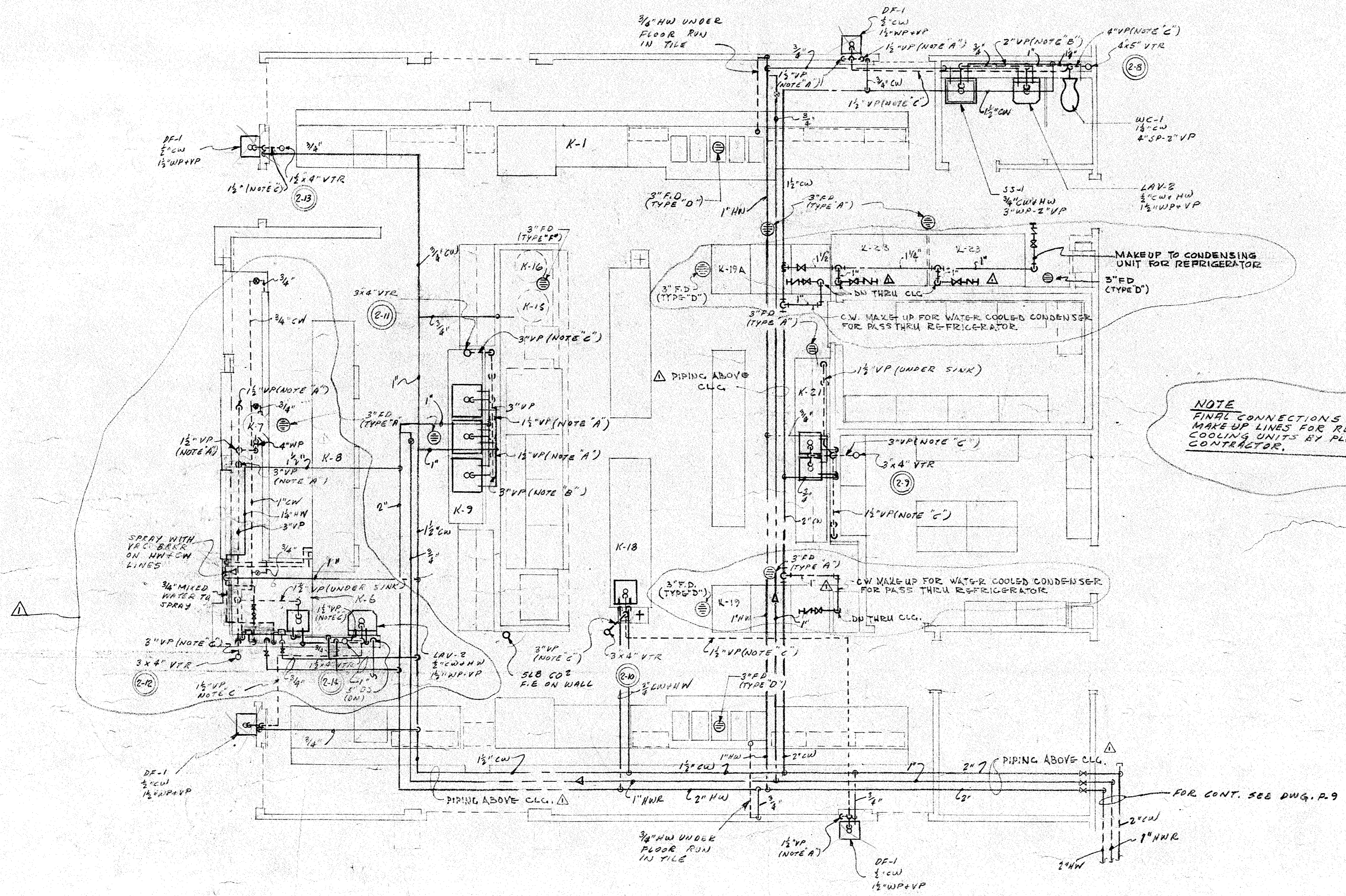
DOWNERS GROVE
SOUTH HIGH SCHOOL
SCHOOL DISTRICT NO. 99

FUGARD, BURT, WILKINSON & ORTH
ARCHITECTS
NEILER RICH & BLADEN ENGINEERS
431 S. DEARBORN CHICAGO ILL.



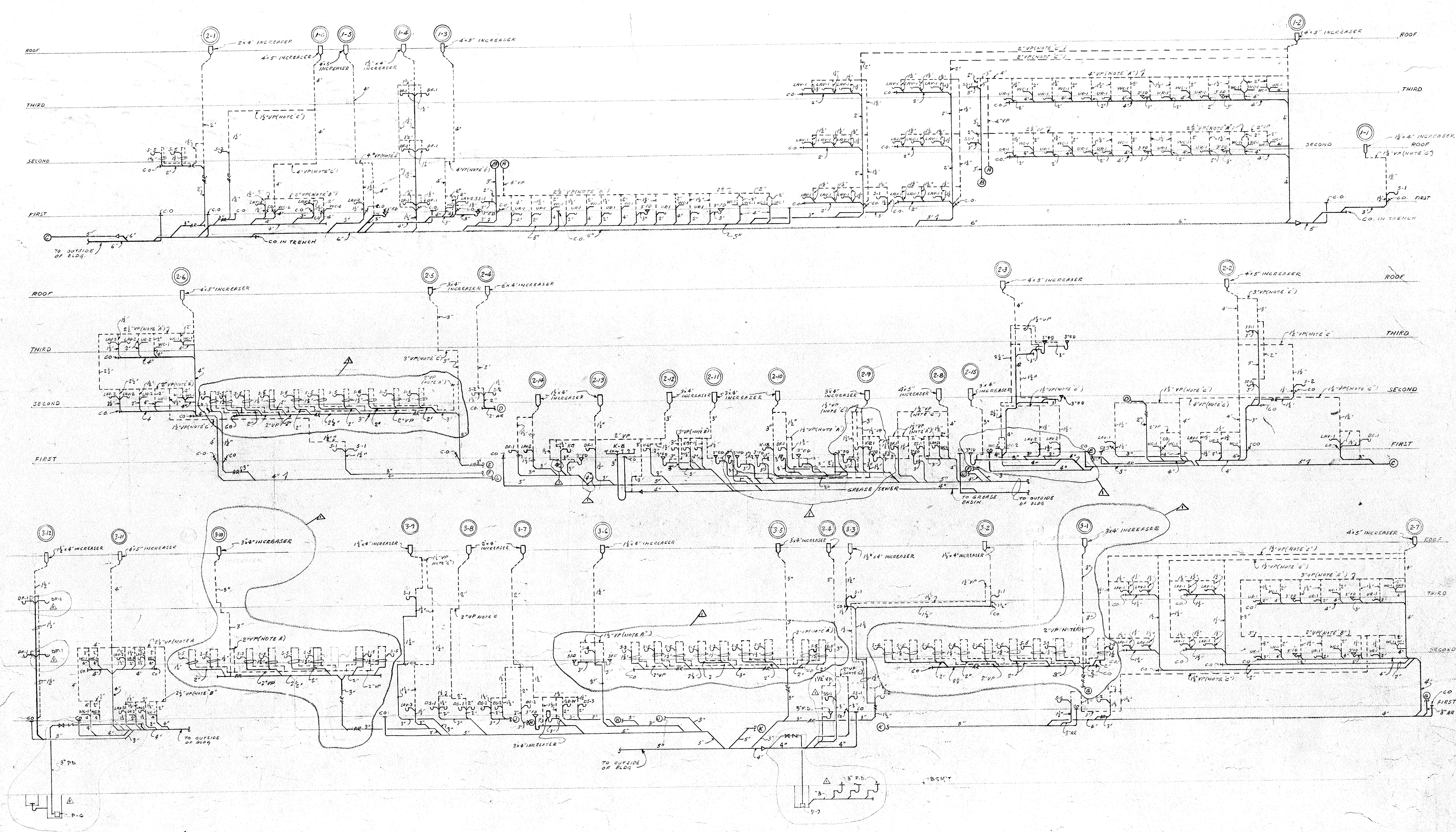
KITCHEN EQUIPMENT SCHEDULE											
NUMBER	DESCRIPTION	WASTE	VENT	COLD WATER	HOT WATER	FIXTURES	TRAP	SUPPLY	FAUCET	SPECIAL	MISCELLANEOUS
								STOPS	NO		
K-1	SERVING COUNTER (HOT)			—	2"					*	
K-6	SOILED DISH COUNTER	2"	1 1/2"	2"	2"		2"				
K-7	FOOD WASTE DISPOSAL	4"	1 1/2"	2"	2 1/2"		4"				
K-8	DISH WASHER	4"	2"	2"	2 1/2"		4"				
K-9	POT SINKS	2"	1 1/2"	2"	2"		2"				
K-15	KETTLE			—	—						
K-16	KETTLE			—	—						
K-18	COOKING TABLE WITH SINK	2"	1 1/2"	2"	2"		2"				
K-21	COUNTER WITH SINK	2"	1 1/2"	2"	2"		2"				

* PROVIDE CHICAGO FAUCET # 492K0E 45LK STOPS FOR ALL HOT & CW FIXTURES.
 PROVIDE APPROVED VACUUM BREAKERS FOR ALL SUBMERGED WATER CONN. OR EQUIP. WITH HISS CONN.
 LOCATE BETWEEN CONTROL VALVE OR FAUCET & FIXTURE.



PLUMBING

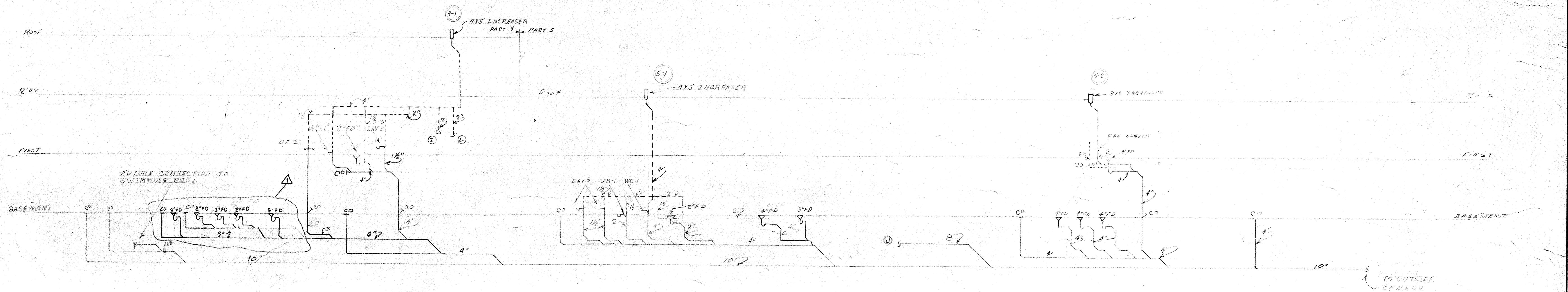
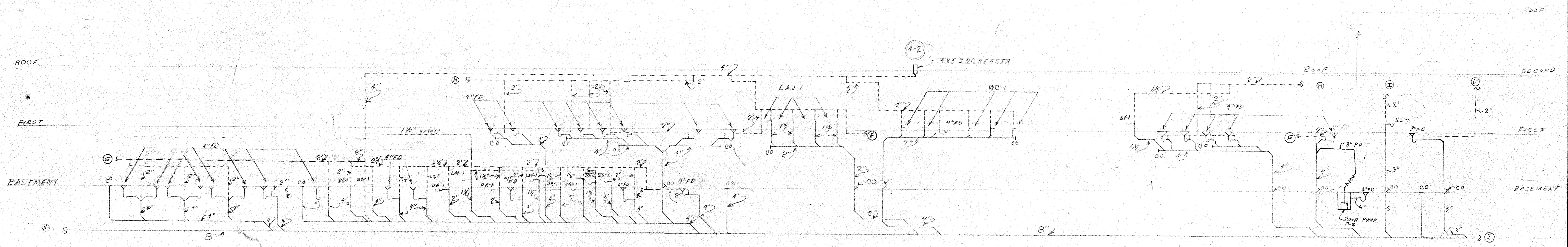
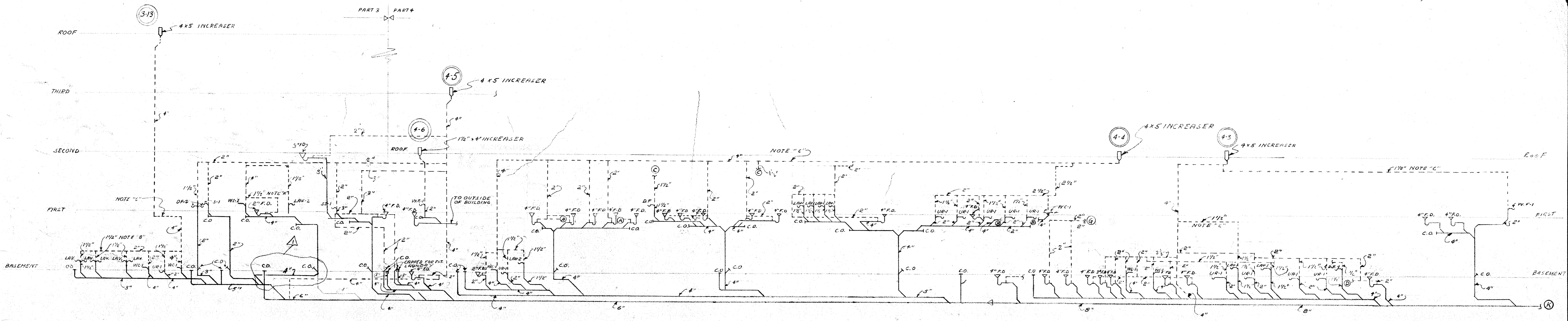
REVISIONS	KITCHEN 1/4" SCALE	DATE
7-1-63		6-15-63
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT No 99	SHEET P.24
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 350 N. MICHIGAN AVE. CHICAGO NEILER, RICH & BLADEN ENGINEERS 451 S. DEARBORN CHICAGO ILL.	COMM. 1118



PLUMBING

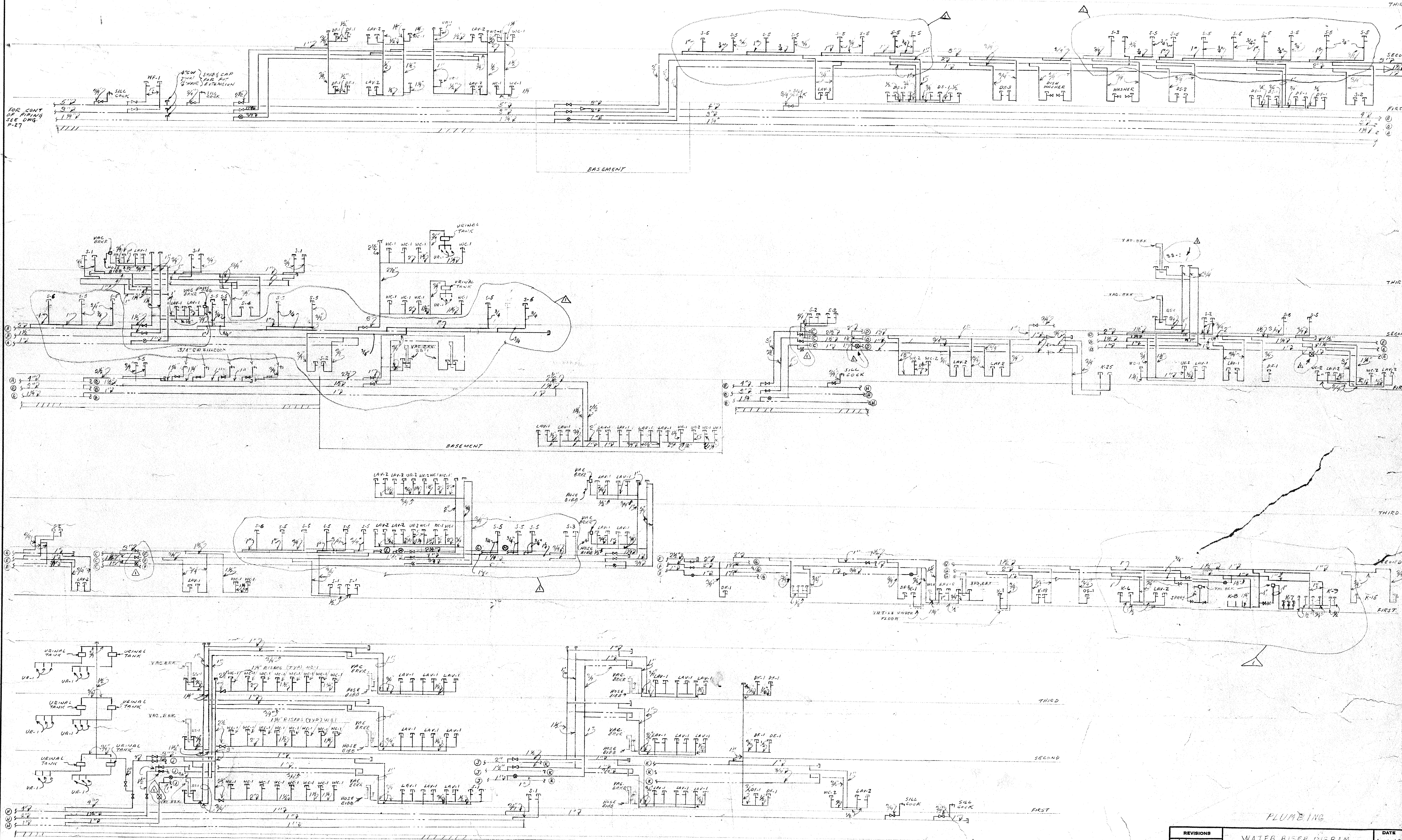
REVISIONS	PLUMBING RISER DIAGRAM	DATE
7-1-63		6-19-63
	DOWNERS GROVE SOUTH HIGH SCHOOL SCHOOL DISTRICT NO 99	SHEET P 25
	FUGARD, BURT, WILKINSON, & ORTH ARCHITECTS 850 N. MICHIGAN AVE. CHICAGO NEILER, RICH & BLADEN ENGINEERS 4-21 S. DEARBORN CHICAGO ILL.	COMM. 1118

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PLUMBING

REVISIONS	PLUMBING RISER DIAGRAM	DATE
7-1-63		6-15-63
	DOWNERS GROVE	SHEET
	SOUTH HIGH SCHOOL	P.26
	SCHOOL DISTRICT No. 94	
DRAWN BY	FUGARD, BURT, WILKINSON, & ORTH	COMM.
TRACED BY	ARCHITECTS	1118
	820 N. MICHIGAN AVE. CHICAGO	
	WELLEN SCHUMACHER ENGINEERS	
	731 S. DEARBORN CHICAGO, ILL.	



FOR CONT. OF PIPING SEE DWG. P-27

REVISIONS	DATE
Δ 1-1-63	6-15-63

WATER RISER DIAGRAM		SHEET
DOWNS GROYE		P-28
SOUTH HIGH SCHOOL		COMM.
SCHOOL DISTRICT NO. 99		1118

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PLUMBING

SECTION 012300 – ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1.4 Alternates described in this Section are part of the Work only if enumerated in the Agreement.

1.5 The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.6 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.

1.7 Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.

1.8 Include as part of each alternate, costs of related coordination, modification, or adjustment incidental to or required for a complete installation whether or not mentioned as part of the Alternate.

- A. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.

- B. Execute accepted alternates under the same conditions as other work of the Contract.

- C. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

A. **Alternate No. 8.1 METAL FRAMED SKYLIGHTS:** Provide pricing to remove metal framed skylights. Pricing for this alternate should include the following:

1. Removal of the metal framed skylights.
2. Removal of the skylight support beams (W16x26(H) and W14x22(H)) at either side of the skylight openings. Beams below, within the plane of the roof, to be respaced.
3. Removal of cold-formed metal framing curb surrounding the openings.
4. Removal of the brake metal coping surrounding the openings.
5. Removal of the temporary wood platforms infilling the skylight openings.
6. Addition of metal roof deck to fill the area that would be skylight opening.
7. Addition of roofing insulation and membrane for the area that would be skylight opening.
8. Addition of acoustical ceiling tile to cover the are that would be skylight opening.

B. **Alternate No. 8.2 PLATFORMING ADDITIVE ALTERNATE:** Provide pricing to furnish and install Studio Theatre Seating Platforms as shown on TP-series of Drawings and as specified in Section 11 62 23 – Stage Platform Systems.

C. **Alternate No. 8.3 LOOSE THEATRE SEATING ADDITIVE ALTERNATE:** Provide pricing to furnish and install Loose Theatre Seating in Studio Theatre as shown on TS-series of Drawings and as specific in Section 12 62 16 – Loose Theatre Seating

D. **Alternate No. 8.4 STAGE RIGGING DEDUCTIVE ALTERNATE:** Provide pricing to furnish and install 2nd, 3rd and 4th electric linesets as manually operated counterweight linesets in lieu of motorized, counterweight-assisted linesets.

E. **Alternate No. 8.5 THEATRICAL LUMINAIRES DEDUCTIVE ALTERNATE:** Provide pricing to revise the schedule of quantities for the Proscenium Theatre as noted below:

1. Tungsten Luminaires:	
B Ellipsoidal Spotlights	
90 degree	8
70 degree	0
50 degree	12 8
36 degree	20 15
26 degree	20 15
19 degree	20 15
14 degree	0
10 degree	20
C PAR Spotlights	24

2.	LED Luminaires:	
	J Ellipsoidal Spotlights	
	90 degree	40 8
	70 degree	0
	50 degree	40 8
	36 degree	40 8
	26 degree	40 8
	19 degree	0
	14 degree	8 0
	10 degree	0
	K Par Spotlights	24
	L Linear Striplights	24
	M Single Cell Cyclorama Lights	0
3.	Ellipsoidal Reflector spotlights - Spare Lens tubes	
	B1 90 degree	2 0
	B2 70 degree	2 0
	B3 50 degree	2 0
	B4 36 degree	2 0
	B5 26 degree	2 0
	B6 19 degree	2 0
	B7 14 degree	2 0
4.	DMX Cable -	
	5 ft.....	100 84

F. **Alternate No. 8.6 Theatrical Luminaires Deductive Alternate:** Provide pricing to revise the schedule of quantities for the Proscenium Theatre as noted below:

1.	LED Luminaires:	
	J Ellipsoidal Spotlights	
	90 degree	40 8
	70 degree	0
	50 degree	40 8
	36 degree	40 8
	26 degree	40 8
	19 degree	0
	14 degree	40 8
	10 degree	0
	K Par Spotlights	36 24
	L Linear Striplights	0
	M Single Cell Cyclorama Lights	20
2.	H DMX Cable:	
	5 ft.	440 88

G. **Alternate No. 8.7 Demolition and Removal of Existing Terrazzo Flooring Additive Alternate:** Provide an additive alternate price to demolish and remove the existing Terrazzo flooring as indicated on Drawing AD2.01.

- H. ***Alternate No. 8.8 AAON Substitution: Provide an additive/deductive alternate to provide AAON manufactured units for RTU's 1, 2, 4, and 5.***

- I. ***Alternate No. 8.9 AAON Substitution: Provide an additive/deductive alternate to provide AAON manufactured units for RTU's 3A & 3B. Note: these units must remain side discharge.***

- J. Refer to Wight Construction's documents for additional instructions and/or alternates.

END OF SECTION 012300

SECTION 084418.23 – INTERIOR GLAZED STEEL FIRE-RATED CURTAIN WALLS
(Addendum No. 2)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes interior glazed steel fire-rated curtain wall systems, and glazing.

1.3 COORDINATION

- A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for interior glazed steel fire-rated curtain wall systems.
- B. Shop Drawings: For interior glazed steel fire-rated curtain wall system components. Include plans, elevations, sections, details, and attachments to other work.
- C. Samples for Initial Selection: For units with factory-applied color finishes.
- D. Samples for Verification:
 - 1. For each type of exposed finish required, in manufacturer's standard sizes.
 - 2. Fire-Resistance-Rated Glazing: 12 inches square.
- E. Glazing Schedule: Use same designations indicated on Drawings for glazed openings in preparing a schedule listing glass types and thicknesses for each size opening and location.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified Installer.
- B. Certification: Signed by manufacturers of glass and glazing products certifying that products furnished comply with requirements.
 - 1. Fire-rated glass and framing assemblies shall be tested to the acceptance criteria of ASTM E 2010-01, NFPA 257, UL 10-B, UL 10-C standard methods for fire tests of fire-rated glass and framing assemblies.
 - 2. Underwriters Laboratories (UL) shall conduct fire test.
- C. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for fire-resistance-rated glass and interior glazed steel fire-rated curtain wall systems, indicating compliance with performance requirements.
- D. Sample Warranties: For special warranties.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.

1.8 FIELD CONDITIONS

- A. Field Measurements: Verify actual locations of structural supports for interior glazed steel fire-rated curtain wall systems by field measurements before fabrication and indicate measurements on Shop Drawings.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and handle under provisions specified by manufacturer. For details on storage and product handling, please contact Technical Glass Products and request information on storage and product handling.
- B. Deliver materials to specified destination in manufacturer or distributor's packaging undamaged, complete with installation instructions.
- C. Store off ground, under cover, protected from weather and construction activities.

1.10 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of fire-resistance-rated glass and interior glazed steel fire-rated curtain wall systems that do not comply with requirements or that fail in materials or workmanship within specified warranty period.
 - 1. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain interior glazed steel fire-rated curtain walls and fire-rated glazing and accessories from one source for each product and installation method indicated.

2.2 PERFORMANCE REQUIREMENTS

- A. Fire-Resistance-Rated Window Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by UL, for fire ratings indicated, based on testing according to NFPA 257, ASTM E 119. Assemblies must be factory-welded or come complete with factory-installed mechanical joints and must not require job site fabrication.
- B. Logo: Label each piece of fire-resistance-rated glazing with a permanent logo including name of product, manufacture, UL testing laboratory, fire rating period, safety glazing standards, and date of manufacture.
- C. Listings and Labels - Fire Rated Assemblies: Under current follow-up service by an approved independent agency maintaining a current listing or certification. Label assemblies in accordance with limits of manufacturer's listing.

2.3 FIRE-RESISTANCE-RATED GLAZING

- A. Basis-of-Design Product: Subject to compliance with requirements, provide products by Pilkington Group; Pyrostop fire-resistance-rated glazing, or comparable products by one of the following:
 - 1. AGC InterEdge Technologies LLC.
 - 2. Technical Glass Products.
- B. Fire-Resistance-Rated Glazing: Composed of multiple sheets of Optiwhite high visible light transmission glass laminated with an intumescent interlayer.
- C. Properties for Glazing:
 - 1. Fire-rating: 1 hour.
 - 2. Thickness for Interior Use: 7/8 inches, Model No. 60-101.
 - 3. Approximate Visible Transmission: 87 percent.
 - 4. Weight: Approximately 10.85 lb/sq ft.
 - 5. Fire-rating: 60 minutes.
 - 6. Impact Safety Resistance: ANSI Z97.1 and CPSC 16CFR1201 (Cat. I and II).
 - 7. STC Rating: 41 dB.

2.4 INTERIOR GLAZED STEEL FIRE-RATED CURTAIN WALLS

- A. Basis-of-Design Product: Technical Glass Products; Fireframes Curtainwall Series, or a comparable product by AGC InterEdge Technologies LLC.

- B. Steel Fire-Rated Framing System, 60-minute fire rating:
1. System Description: Steel fire-rated glazed curtain wall system, outside glazed pressure plate, cover cap format.
 2. Frame: Steel: profiled steel tubing permanently joined with steel bolts.
 - a. Face Width: 1-3/4 inches.
 3. Insulation: Insulate framing system against effects of fire, smoke, and heat transfer from either side. Firmly pack perimeter of framing system to rough opening with mineral wool fire stop insulation or appropriately rated intumescent sealant.
 4. Fasteners: Type recommended by manufacturer.
 5. Glazing Gaskets, Compounds and tapes: Glaze fire-resistance-rated glass with approved EPDM glazing gaskets and closed cell PVC tape, or pure silicone sealant.
 6. Steel Pressure Plates: Formed stainless steel pressure plate with dimensions recommended by manufacturer to securely hold glazing material in place.
 7. Cover Caps: Formed steel.
 8. Steel Reinforcement: With manufacturer's standard corrosion-resistant primer complying with SSPC-PS Guide No. 12.00 applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM and prepare surfaces according to applicable SSPC standard.
 - a. Structural Shapes, Plates, and Bars: ASTM A36/A36M.
 - b. Cold-Rolled Sheet and Strip: ASTM A611.
 - c. Hot-Rolled Sheet and Strip: ASTM A570/A570M.
 9. Brackets and Reinforcements: Manufacturer's standard high-strength materials with nonstaining, nonferrous shims for aligning system components.
 10. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
 - a. Where fasteners are subject to loosening or turn out from thermal and structural movements, wind loads, or vibration, use self-locking devices.
 - b. Reinforce members as required to receive fastener threads.
 11. Anchors: Three-way adjustable anchors that accommodate fabrication and installation tolerances in material and finish compatible with adjoining materials and recommended by manufacturer.
 - a. Concrete and Masonry Inserts: Hot-dip galvanized cast-iron, malleable-iron, or steel inserts complying with ASTM A123/A123M or ASTM A153/A153M requirements.

2.5 ACCESSORIES

- A. Intumescent Tape: As supplied by frame manufacturer.

- B. Setting Blocks: 1/4 inch calcium silicate.
- C. Perimeter Anchors: Steel or Type 316 stainless steel when exposed.
- D. Silicone Sealant: One-Part Low Modulus, neutral cure High Movement-Capable Sealant: Type S; Grade NS; Class 25 with additional movement capability of 100 percent in extension and 50 percent in compression (total 150 percent); Use (Exposure) NT; Uses (Substrates) M, G, A, and O as applicable. (Use-O joint substrates include: Metal factory-coated with a high-performance coating; galvanized steel; ceramic tile.)
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Dow Corning Corp.; Dow Corning 790 or 795, or comparable product by one of the following:
 - a. Mumentive.
 - b. Tremco
- E. Intumescent Caulk: Single component, latex-based, intumescent caulk designed to stop passage of fire, smoke, and fumes through fire-rated separations; permanently flexible after cure; will not support mold growth; flame spread/smoke developed 10/10.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide 3M CP-25 WP+, or equal.

2.6 SLAG-WOOL-FIBER/ROCK-WOOL-FIBER INSULATION

- A. Available Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Fibrex Insulations Inc.
 - 2. Owens Corning.
 - 3. Thermafiber.
 - 4. Rockwool.
- B. Unfaced, Slag-Wool-Fiber/Rock-Wool-Fiber Board Insulation: ASTM C612, maximum flame-spread and smoke-developed indexes of 15 and 0, respectively; passing ASTM E 136 for combustion characteristics; and of the following nominal density and thermal resistivity:
 - 1. Nominal density of 4 lb/cu. ft. (64 kg/cu. m), Types IA and IB, thermal resistivity of 4 deg F x h x sq. ft./Btu x in. at 75 deg F (27.7 K x m/W at 24 deg C).
 - 2. Fiber Color: Regular color, unless otherwise indicated.

2.7 FABRICATION

- A. Fabricate components per manufacturer's installation instructions and with minimum clearances and shim spacing around perimeter of assembly, yet enabling installation and dynamic movement of perimeter seal.
- B. Accurately fit and secure joints and corners. Make joints flush and weatherproof.

- C. Prepare components to receive anchor devices.
- D. Provide physical and thermal isolation of glazing from framing members.
- E. Provide internal guttering to drain water from joints and condensation occurring within glazing pocket.
- F. Fabricate anchors.
- G. Arrange fasteners and attachments to be concealed from view.
- H. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
 - 1. Provide safety glazing labeling.

2.8 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Finish fire-resistance-rated framing system after fabrication.
- C. Protect finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- D. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable. Noticeable variations in the same piece are not acceptable.

2.9 FACTORY FINISHES

- A. High-Performance Organic Finish (2-Coat Fluoropolymer): AA-C12C40R1x (Chemical Finish: cleaned with inhibited chemicals; Chemical Finish: conversion coating; Organic Coating: manufacturer's standard 2-coat, thermocured system consisting of specially formulated inhibitive primer and fluoropolymer color topcoat containing not less than 70 percent polyvinylidene fluoride resin by weight). Prepare, pretreat, and apply coating to exposed metal surfaces to comply with AAMA 2604 and with coating and resin manufacturers' written instructions.
 - 1. Color and Gloss: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and members to which the work of this section attaches or adjoins prior to frame installation.

- B. Provide openings plumb, square and within manufacturer's recommended tolerances.
- C. Notify Architect of any conditions which jeopardize the integrity of the proposed fire wall system.
- D. Do not proceed until such conditions are corrected.

3.2 INSTALLATION

- A. Install interior glazed steel fire-rated curtain wall system according to manufacturer's written instructions and shop drawings.
- B. Install fire safing and fire stopping materials at edges of fire-resistance-rated window system.
- C. Install glazing according to fire-resistant-glazing material manufacturer's written instructions. Do not field cutting or modify fire-resistance-rated glazing materials.
- D. Do not install damaged frames or chipped glazing units.
- E. Install fire-resistance-rated glazing systems plumb and level to a tolerance of 1/8 inch in 10 feet in any dimension.

3.3 PROTECTION AND CLEANING

- A. Protect glass from damage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels, and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations, including weld splatter. If, despite such protection, contaminating substances do come into contact with glass, remove them immediately as recommended by glass manufacturer.
- C. Replace glass that is broken, chipped, cracked, abraded, or damaged in any way, including natural causes, accidents, and vandalism, during construction period.
- D. Wash glass on both exposed surfaces in each area of Project not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended by glass manufacturer.

END OF SECTION 084418.23

SECTION 087111 – DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

- 1. Commercial door hardware for the following:
 - a. Swinging doors.
 - b. Other doors to the extent indicated.
- 2. Cylinders for door hardware specified in other Sections.

B. Related Requirements:

- 1. Division 06 Section "Architectural Woodwork" for cabinet door hardware provided as part of architectural woodwork.
- 2. Division 08 Section "Hollow Metal Doors and Frames" for door silencers provided as part of the frame.
- 3. Division 08 Section "Aluminum-Framed Entrances and Storefronts" for installation of entrance door hardware, except cylinders.
- 4. Division 08 Section "Flush Wood Doors" for integral intumescent seals provided as part of labeled fire-rated assemblies.
- 5. Division 26 Sections for connections to electrical power system and for low-voltage wiring work.

- C. Products furnished, but not installed, under this Section include the following. Coordinating, purchasing, delivering, and scheduling remain requirements of this Section.

- 1. Hardware for aluminum entrance doors and frames specified in other Sections.

1.3 ACTION SUBMITTALS

- A. Product Data: Include installation details, material descriptions, dimensions of individual components and profiles, and finishes.

- B. Shop Drawings: Details of electrified door hardware, indicating the following:
1. Wiring Diagrams: For power, signal, and control wiring and including the following:
 - a. Details of interface of electrified door hardware and building safety and security systems.
 2. Operation Narrative: Describe the operation of doors controlled by electrified door hardware.
- C. Samples for Verification: For exposed door hardware of each type, in specified finish, full size. Tag with full description for coordination with the door hardware sets. Submit Samples before, or concurrent with, submission of the final door hardware sets.
1. Samples will be returned to Contractor. Units that are acceptable and remain undamaged through submittal, review, and field comparison process may, after final check of operation, be incorporated into the Work, within limitations of keying requirements.
- D. Other Action Submittals:
1. Door Hardware Schedule: Prepared by or under the supervision of Installer, detailing fabrication and assembly of door hardware, as well as installation procedures and diagrams. Coordinate the final door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
 - a. Submittal Sequence: Submit door hardware schedule after or concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate the fabrication of other work that is critical in Project construction schedule.
 - b. Format: Use same scheduling sequence and format and use same door numbers as in the Contract Documents. Double space entries, and number and date each page.
 - c. Content: Include the following information:
 - 1) Identification number, location, hand, fire rating, size, and material of each door and frame.
 - 2) Locations of each door hardware set, cross-referenced to Drawings on floor plans and to door and frame schedule.
 - 3) Complete designations, including name and manufacturer, type, style, function, size, quantity, function, and finish of each door hardware product.
 - 4) Description of electrified door hardware sequences of operation and interfaces with other building control systems.
 - 5) Fastenings and other pertinent information.
 - 6) Explanation of abbreviations, symbols, and codes contained in schedule.
 - 7) Mounting locations for door hardware.

- 8) List of related door devices specified in other Sections for each door and frame.
2. Keying Schedule: Prepared by or under the supervision of Installer, detailing Owner's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations that are coordinated with the Contract Documents.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and Architectural Hardware Consultant.
- B. Product Certificates: For electrified door hardware, from the manufacturer.
 1. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
- C. Product Test Reports: For compliance with accessibility requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for door hardware on doors located in accessible routes.
- D. Warranty: Special warranty specified in this Section.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For each type of door hardware to include in maintenance manuals. Include final hardware and keying schedule.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and approved by product manufacturers with experience in installing specified items.
- B. Hardware Supplier Qualifications:
 1. Supplier must be a corporate member in good standing of The Door and Hardware Institute (DHI).
 2. Supplier shall employ an active Architectural Hardware Consultant (AHC), who is currently participating in DHI's continuing education program (CEP).
 3. Warehousing Facilities: In Project's vicinity.
 4. Scheduling Responsibility: Preparation of door hardware schedule.
 5. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.

- C. Source Limitations: Obtain each type of door hardware from a Source Limitations: Obtain each type of door hardware from a single manufacturer.
1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated. Manufacturers that perform electrical modifications and that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.
- D. Fire-Rated Door Assemblies: Where fire-rated door assemblies are indicated, provide door hardware rated for use in assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL 10C, unless otherwise indicated.
- E. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
1. Air Leakage Rate: Maximum air leakage of 0.3 cfm/sq. ft. at the tested pressure differential of 0.3-inch wg of water.
- F. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- G. Means of Egress Doors: Latches do not require more force than 8-1/2 lbf to release the latch for exterior doors and 5 lbf for interior doors. Locks do not require use of a key, tool, or special knowledge for operation.
- H. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines and the Illinois Accessibility Act.
1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.
 2. Comply with the following maximum opening-force requirements:
 - a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf applied perpendicular to door.
 - b. Fire Doors: Minimum opening force allowable by authorities having jurisdiction.
 3. Adjust door closer sweep periods so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.

- I. Keying Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination." In addition to Owner, Construction Manager, Contractor, and Architect, conference participants shall also include Installer's Architectural Hardware Consultant. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including, but not limited to, the following:
 1. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 2. Preliminary key system schematic diagram.
 3. Requirements for key control system.
 4. Requirements for access control.
 5. Address for delivery of keys.

- J. Preinstallation Conference: Conduct conference at Project site.
 1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 2. Inspect and discuss preparatory work performed by other trades.
 3. Inspect and discuss electrical roughing-in for electrified door hardware.
 4. Review sequence of operation for each type of electrified door hardware.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.
- B. Tag each item or package separately with identification coordinated with the final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.
- C. Deliver keys and permanent cores to Owner by registered mail or overnight package service.

1.8 COORDINATION

- A. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- B. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- C. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.9 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including excessive deflection, cracking, or breakage.
 - b. Faulty operation of operators and door hardware.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- B. Warranty Period: One year from date of Substantial Completion, except as follows:
 - 1. Exit Devices: Two years from date of Substantial Completion.
 - 2. Locks: 3 years from date of Substantial Completion.
 - 3. Manual Closers: 10 years from date of Substantial Completion.

1.10 MAINTENANCE SERVICE

- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

- A. Provide door hardware for each door as scheduled in Part 3 "Door Hardware Schedule" Article to comply with requirements in this Section.
 - 1. Door Hardware Sets: Provide quantity, item, size, finish or color indicated.
 - 2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
- B. Designations: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of door hardware are indicated in Part 3 "Door Hardware Schedule" Article. Products are identified by descriptive titles corresponding to requirements specified in Part 2.
- C. Hardware shall be BHMA Grade 1.

2.2 HINGES

- A. Hinges: BHMA A156.1, Grade 1. Provide template-produced hinges for hinges installed on hollow-metal doors and hollow-metal frames.
1. Approved Manufacturers: Subject to compliance with requirements, provide product indicated on schedule or equal product by one of the following:
 - a. Hager.
 - b. Ives.
 - c. Stanley.
 - d. No alternate manufacturers will be accepted without architect's approval prior to bidding.
- B. Quantity: Provide the following, unless otherwise indicated:
1. Two Hinges: For doors with heights up to 60 inches.
 2. Three Hinges: For doors with heights 61 to 90 inches.
 3. Four Hinges: For doors with heights 91 to 120 inches.
 4. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
- C. Hinge Weight: Unless otherwise indicated, provide the following:
1. Entrance Doors and other high frequency doors: Heavy duty continuous hinges.
 2. Interior Doors: Standard weight ball bearing hinges.
 3. Interior Doors 3'4" wide or greater: Heavy weight ball bearing hinges.
 4. Interior Doors 2 1/4" thick: Heavy weight ball bearing hinges. Provide 5" x 5" hinges.
- D. Hinge Base Metal:
1. Exterior Butt Hinges: Stainless steel, with stainless-steel pin.
 2. Continuous gear hinges: Anodized aluminum anodized
 3. Interior Hinges: Steel with steel pin.
- E. Hinge Options:
1. Nonremovable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for outswinging exterior doors.
 2. Corners: Square.
 3. All hinges to be ball bearing hinges.
- F. Fasteners: Comply with the following:
1. Machine Screws: For metal doors and frames. Install into drilled and tapped holes.
 2. Wood Screws: For wood doors and frames.
 3. Threaded-to-the-Head Wood Screws: For fire-rated wood doors.

4. Screws: Phillips flat-head; machine screws (drilled and tapped holes) for metal doors. Wood screws for wood doors and frames]. Finish screw heads to match surface of hinges.

2.3 CONTINUOUS HINGES

- A. Continuous Hinges: BHMA 156.26, minimum 0.120-inch-thick, hinge leaves with minimum overall width of 4 inches; fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete.
- B. Continuous, Gear-Type Hinges: Extruded-aluminum, pinless, geared hinge leaves joined by a continuous extruded-aluminum channel cap; with concealed, self-lubricating thrust bearings.
 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on schedule or comparable product by one of the following:
 - a. Hager.
 - b. Ives.
 - c. Select.
 - d. No alternate manufacturers will be accepted without architect's approval prior to bidding.
 2. Grade: Grade 1-300.
 3. Hinges for Fire-Rated Assemblies: With steel fire pins to hold fire-rated doors in place if required by tested listing.
 4. Mounting: Concealed leaf.

2.4 MECHANICAL LOCKS AND LATCHES

- A. Lock Functions: As indicated in door hardware schedule. Provide mortise and cylindrical locksets as indicated in hardware sets.
- B. Lock Throw: Comply with testing requirements for length of bolts to comply with labeled fire door requirements, and as follows:
 1. Mortise Locks: Minimum 3/4-inch latchbolt throw.
 2. Deadbolts: Minimum 1-inch bolt throw.
- C. Lock Backset: 2-3/4 inches, unless otherwise indicated.
- D. Lock Trim:
 1. Description: As indicated in door hardware schedule.
 2. Dummy Trim: Match lever lock trim and escutcheons.
 3. Operating Device: Lever with escutcheons (roses).

- E. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; finished to match lock or latch.
 - 1. Aluminum-Frame Strike Box: Manufacturer's special strike box fabricated for aluminum framing.
- F. Mortise Locks: BHMA A156.13; Grade 1.
 - 1. Approved Manufacturers: Subject to compliance with requirements, provide product indicated on schedule or equal product by one of the following:
 - a. Schlage.
 - b. No alternate manufacturers will be accepted without architect's approval prior to bidding.

2.5 DOOR BOLTS

- A. Automatic Flush Bolts: BHMA A156.3, Grade 1; designed for mortising into door edge.
- B. Dustproof Strikes: Grade 1, polished wrought brass, with 3/4-inch-diameter, spring-tension plunger.
- C. Approved Manufacturers: Subject to compliance with requirements, provide product indicated on schedule or equal product by one of the following:
 - 1. Flush Bolts:
 - a. Hager.
 - b. Ives.
 - c. Rockwood.
 - d. No alternate manufacturers will be accepted without architect's approval prior to bidding.
- D. Bolt Throw: Comply with testing requirements for length of bolts to comply with labeled fire door requirements, and as follows:
 - 1. Mortise Flush Bolts: Minimum 3/4-inch throw.

2.6 EXIT DEVICES AND AUXILIARY ITEMS

- A. Exit Devices and Auxiliary Items: BHMA A156.3, Grade 1.
 - 1. Approved Manufacturers: Subject to compliance with requirements, provide product indicated on schedule or equal product by one of the following:
 - a. Von Duprin
 - b. No alternate manufacturers will be accepted without architect's approval prior to bidding.

- B. Panic Exit Devices: Listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing according to UL 305.
- C. Fire Exit Devices: Devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252.
- D. Fire-Exit Removable Mullions: Provide removable mullions for use with fire exit devices complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire and panic protection, based on testing according to UL 305 and NFPA 252. Mullions shall be used only with exit devices for which they have been tested.
- E. Through-Bolt Fasteners: For exit devices and trim on metal doors and fire-rated wood doors.

2.7 LOCK CYLINDERS

- A. Lock Cylinders: Manufacturers interchangeable core, constructed from brass or bronze, stainless steel, or nickel silver.
 - 1. Approved Manufacturers: Subject to compliance with requirements, provide product indicated on schedule or equal product by one of the following:
 - a. Schlage.
 - b. No alternate manufacturers will be accepted without architect's approval prior to bidding.

2.8 KEYING

- A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, Appendix A. Incorporate decisions made in keying conference.
 - 1. Key all new cylinders into the existing masterkey system.
- B. Keys: Nickel-silver.
 - 1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
 - a. Notation: "DO NOT DUPLICATE."
 - 2. Quantity: In addition to one extra blank key for each lock, provide the following:
 - a. Cylinder Change Keys: Three.
 - b. Master Keys: Five.
 - c. Grand Master Keys: Five.
 - d. Control Keys: Two.

2.9 OPERATING TRIM

- A. Operating Trim: BHMA A156.6, Grade 1; stainless steel, unless otherwise indicated.
 - 1. Approved Manufacturers: Subject to compliance with requirements, provide product indicated on schedule or equal product by one of the following:
 - a. Hager.
 - b. Ives.
 - c. Rockwood.
 - d. No alternate manufacturers will be accepted without architect's approval prior to bidding.
- B. Flat Push Plates: 0.050 inch thick, 4 inches wide by 16 inches high with square corners and beveled edges; secured with exposed screws.
- C. Straight Door Pulls: With minimum clearance of 1-1/2 inches from face of door.
 - 1. Type: 1-inch constant diameter pull.
 - 2. Mounting: Through bolted with oval-head machine screws and countersunk washers.
 - 3. Center to Center Length: 10 inches.

2.10 SURFACE CLOSERS

- A. Surface Closers: BHMA A156.4, Grade 1; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force. Provide extra duty arm at parallel arm locations.
 - 1. Approved Manufacturers: Subject to compliance with requirements, provide product indicated on schedule or equal product by one of the following:
 - a. LCN
 - b. No alternate manufacturers will be accepted without architect's approval prior to bidding.
- B. Surface Closer with Cover: Grade 1; Modern Type with mechanism enclosed in cover. Mounting and type as indicated, with adjustable backcheck effective between 60 and 85 degrees of door opening, and molded plastic cover.
- C. Size of Units: Unless otherwise indicated, comply with manufacturer's written recommendations for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.

2.11 AUTOMATIC DOOR OPERATORS

- A. General: Provide operators of size recommended by manufacturer for door size, weight, and movement; for condition of exposure; and for compliance with UL325. Coordinate operator mechanisms with door operation, hinges, and activation devices.

Fire Rated Doors: Provide door operators for fire-rated door assemblies that comply with NFPA80 for fire-rated door components and are listed and labeled by a qualified testing agency.

- B. Brackets and Reinforcements: Manufacturer's standard, fabricated from aluminum with nonferrous shims for aligning system components.
- C. Standard: Certified ANSI/BHMA A156.19.

Performance Requirements:

- a. Opening force if power fails: Not more than 15lbf to release a latch if provided, not more than 30lbf required to manually set door in motion, and not more than 15lbf required to fully open door.
 - b. Entrapment Protection: Not more than 15lbf required to prevent stopped door from closing or opening.
- D. Configuration: Surface mounted. Door operators to control single swinging and pair of swinging doors.
- E. Operation: Power opening and spring closing capable of meeting ANSI A117.1 accessibility guideline. Provide time delay for door to remain open before initiating closing cycle as required by ANSI/BHMA A156.19. When not in automatic mode, door operator to function as manual door closer with fully adjustable opening and closing forces, with or without electrical power.
- F. Features: Operator units to have full feature adjustments for door opening and closing force and speed, backcheck, motor assist acceleration from 0 to 30 seconds, time delay, vestibule interface delay, obstruction recycle, and hold open time from 0 up to 30 seconds.
- G. Provide outputs and relays on board the operator to allow for coordination of exit device latch retraction, electric strikes, magnetic locks, card readers, safety and motion sensors and specified auxiliary contacts.
- H. Activation Devices: Provide activation devices in accordance with ANSI/BHMA A156.19 standard, for condition of exposure indicated and for long term, maintenance free operation under normal traffic load operation. Coordinate activation control with electrified hardware and access control interfaces. Activation switches are standard SPST, with option DPDT availability.

1. Manufacturers:

- a. LCN

- b. Horton
- c. Motion Access
- d.. No alternate manufacturers will be accepted without architect's approval prior to bidding.

2.12 MECHANICAL STOPS AND HOLDERS

- A. Wall- and Floor-Mounted Stops: BHMA A156.16, Grade 1; polished cast brass, bronze, or aluminum base metal; with rubber bumper.
 - 1. Approved Manufacturers: Subject to compliance with requirements, provide product indicated on schedule or equal product by one of the following:
 - a. Hager.
 - b. Ives.
 - c. Rockwood.
 - d. No alternate manufacturers will be accepted without architect's approval prior to bidding.

2.13 OVERHEAD STOPS AND HOLDERS

- A. Overhead Stops and Holders: BHMA A156.8, Grade 1.
 - 1. Approved Manufacturers: Subject to compliance with requirements, provide product indicated on schedule or equal product by one of the following:
 - a. ABH.
 - b. Glynn-Johnson.
 - c. Rixson.
 - d. No alternate manufacturers will be accepted without architect's approval prior to bidding.

2.14 METAL PROTECTIVE TRIM UNITS

- A. Metal Protective Trim Units: BHMA A156.6, Grade 1; fabricated from 0.050-inch-thick sheet; with manufacturer's standard machine or self-tapping screw fasteners.
 - 1. Approved Manufacturers: Subject to compliance with requirements, provide product indicated on schedule or equal product by one of the following:
 - a. Hager.
 - b. Ives.
 - c. Rockwood.
 - d. No alternate manufacturers will be accepted without architect's approval prior to bidding.

2.15 ELECTRIC STRIKES

- A. Electric Strikes: Heavy duty, confirming to ANSI/BHMA A156.31, UL listed for both Burglary Resistance and for use on fire rated door assemblies. Stainless Steel construction tested to 2000lbs of static strength and 120ft-lbs dynamic strength. Strikes tested for a minimum 1 million operating cycles. Provide strikes with 12 or 24VDC capability and supplied as fail secure unless otherwise specified.
1. Acceptable Manufacturers:
 - a. HES.
 - b. Von Duprin.
 - c. No alternate manufacturers will be accepted without architect's approval prior to bidding.

2.16 DOOR GASKETING

- A. Standard: BHMA A156.22.
- B. General: Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated or scheduled. Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.
1. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
 2. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
 3. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.
- C. Air Leakage: Not to exceed 0.50 cfm per foot of crack length for gasketing other than for smoke control, as tested according to ASTM E 283.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated, based on testing according to ASTM E 1408.
- E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.
- F. Gasketing Materials: ASTM D 2000 and AAMA 701/702.
- G. Manufacturers:
 1. National Guard Products (NGP).
 2. Pemko.
 3. Reese.
 4. Smoke Seals. Provide smoke seal gasketing at all fire doors regardless if shown in sets.

2.17 THRESHOLDS

- A. Standard: BHMA A156.21.
- B. Accessibility Requirements: Where thresholds are indicated to comply with accessibility requirements, comply with the U.S. Architectural & Transportation Barriers Compliance Board's "Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities (ADAAG)."
 - 1. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch high.
- C. Thresholds for Means of Egress Doors: Comply with NFPA 101. Maximum 1/2 inch high.
- D. Manufacturers:
 - 1. National Guard Products (NGP).
 - 2. Pemko.
 - 3. Reese.

2.18 FABRICATION

- A. Base Metals: Produce door hardware units of base metal, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18 for finishes. Do not furnish manufacturer's standard materials or forming methods if different from specified standard.
- B. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to commercially recognized industry standards for application intended. Provide Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated.
 - 1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.
 - 2. Fire-Rated Applications:
 - a. Wood or Machine Screws: For the following:
 - 1) Hinges mortised to doors or frames; use threaded-to-the-head wood screws for wood doors and frames.
 - 2) Strike plates to frames.
 - 3) Closers to doors and frames.

- b. Steel Through Bolts: For the following unless door blocking is provided:
 - 1) Surface hinges to doors.
 - 2) Closers to doors and frames.
 - 3) Surface-mounted exit devices.
- 3. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
- 4. Fasteners for Wood Doors: Comply with requirements in DHI WDHS.2, "Recommended Fasteners for Wood Doors."
- 5. Gasketing Fasteners: Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

2.19 FINISHES

- A. Provide finishes complying with BHMA A156.18 as indicated in door hardware schedule.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
- B. Wood Doors: Comply with DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."

3.3 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 - 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 - 2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
 - 1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
 - 2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- C. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- D. Stops: Provide wall stops for doors unless floor or other type stops are indicated in door hardware schedule. Do not mount floor stops where they will impede traffic.

3.4 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

3.5 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.

- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.6 MISCELLANEOUS

- A. Fire-Rated Door Assemblies: Where fire-rated door assemblies are indicated, provide door hardware rated for use in assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to NFPA 252 or UL10C, unless otherwise indicated. Provide positive latching and self closing, regardless if specified in sets.
- B. Items of hardware not definitely specified herein but necessary for completion of the Work shall be provided. Such items shall be of type and quality suitable to the service required and comparable to the adjacent hardware. Where size and shape of members is such as to prevent the use of types specified, hardware shall be furnished of suitable types having as nearly as practicable the same operation and quality as the type specified. Sizes shall be adequate for the service required. Include such nuances as strike type, strike lip, raised barrel hinges, mounting brackets, fasteners, shims, and coordination between conflicting products. All doors shall be provided with a stop.
- C. Provide hardware appropriate for 2 ¼" thick doors where applicable.

3.7 DOOR HARDWARE SCHEDULE

SET 01

2 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
2 EA	EXIT DEVICE	3347EO	626	VON DUPRIN
2 EA	PULLS	BF158	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

SET 02

1 EA	CONTINUOUS HINGE	780-112HD X EPT PREP	CLR	HAGER
1 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
1 EA	POWER TRANSFER	EPT-10	SP28	VON DUPRIN
1 EA	EXIT DEVICE	QEL3347A-NL-OP	626	VON DUPRIN
1 EA	EXIT DEVICE	3347EO	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	PULLS	BF158	630	ROCKWOOD
1 EA	CLOSER	4040XP	689	LCN
1 EA	AUTO OPERATOR	4640	689	LCN

2 EA	ACTUATOR	8310-856T	630	LCN
2 EA	FLUSH MOUNT BOX	8310-868F	---	LCN
1 EA	WEATHER RING	8310-800	---	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	POWER SUPPLY	PS902 X 900-2RS	GRY	VON DUPRIN
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP
1 EA	POSITION SWITCH	1078	GRY	GE

**CARD READER BY OTHERS.

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

OPERATION: DOORS NORMALLY LOCKED AND CLOSED. VALID CARD READ ACTIVATES OUTSIDE AUTOMATIC OPERATOR ACTUATOR AND ACTIVATES ELECTRIC LATCH RETRACTION EXIT DEVICE TO ALLOW ENTRY. AT DISCRETION OF FACILITY, ELECTRIC LATCH RETRACTION EXIT DEVICE CAN BE PROGRAMMED TO BE RETRACTED TO ALLOW ENTRY (WHEN RETRACTED, OUTSIDE AUTOMATIC OPERATOR ACUATOR TO BE ACTIVE). FREE EGRESS IS ALWAYS ALLOWED.

SET 03

2 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
2 EA	EXIT DEVICE	3347EO	626	VON DUPRIN
2 EA	PULLS	BF158	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

SET 04

1 EA	CONTINUOUS HINGE	780-112HD X EPT PREP	CLR	HAGER
1 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
1 EA	POWER TRANSFER	EPT-10	SP28	VON DUPRIN
1 EA	EXIT DEVICE	QEL3347A-NL-OP	626	VON DUPRIN
1 EA	EXIT DEVICE	3347EO	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	PULLS	BF158	630	ROCKWOOD
1 EA	CLOSER	4040XP	689	LCN
1 EA	AUTO OPERATOR	4640	689	LCN
2 EA	ACTUATOR	8310-856T	630	LCN
2 EA	FLUSH MOUNT BOX	8310-868F	---	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	POWER SUPPLY	PS902 X 900-2RS	GRY	VON DUPRIN
1 EA	POSITION SWITCH	1078	GRY	GE

**CARD READER AND REMOTE RELEASE BY OTHERS.

OPERATION: DOORS NORMALLY LOCKED AND CLOSED. VALID CARD READ OR REMOTE RELEASE ACTIVATES OUTSIDE AUTOMATIC OPERATOR ACTUATOR AND ACTIVATES ELECTRIC LATCH RETRACTION EXIT DEVICE TO ALLOW ENTRY. AT DISCRETION OF FACILITY, ELECTRIC LATCH RETRACTION EXIT DEVICE CAN BE PROGRAMMED TO BE RETRACTED TO ALLOW ENTRY (WHEN RETRACTED, OUTSIDE AUTOMATIC OPERATOR ACUATOR TO BE ACTIVE). FREE EGRESS IS ALWAYS ALLOWED.

SET 05

1 EA	CONTINUOUS HINGE	780-112HD X EPT PREP	CLR	HAGER
1 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
1 EA	POWER TRANSFER	EPT-10	SP28	VON DUPRIN
1 EA	EXIT DEVICE	QEL3347A-NL-OP	626	VON DUPRIN
1 EA	EXIT DEVICE	3347EO	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	PULLS	BF158	630	ROCKWOOD
1 EA	CLOSER	4040XP	689	LCN
1 EA	AUTO OPERATOR	4640	689	LCN
1 EA	ACTUATOR	8310-856T	630	LCN
1 EA	FLUSH MOUNT BOX	8310-868F	---	LCN
1 EA	WEATHER RING	8310-800	---	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	POWER SUPPLY	PS902 X 900-2RS	GRY	VON DUPRIN
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP
1 EA	POSITION SWITCH	1078	GRY	GE

**CARD READER BY OTHERS.

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

OPERATION: DOORS NORMALLY LOCKED AND CLOSED. VALID CARD READ ACTIVATES OUTSIDE AUTOMATIC OPERATOR ACTUATOR AND ACTIVATES ELECTRIC LATCH RETRACTION EXIT DEVICE TO ALLOW ENTRY. AT DISCRETION OF FACILITY, ELECTRIC LATCH RETRACTION EXIT DEVICE CAN BE PROGRAMMED TO BE RETRACTED TO ALLOW ENTRY (WHEN RETRACTED, OUTSIDE AUTOMATIC OPERATOR ACUATOR TO BE ACTIVE). FREE EGRESS IS ALWAYS ALLOWED.

SET 06

2 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
2 EA	PUSH/PULL	BF15847	630	HAGER
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

SET 07

1 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
1 EA	EXIT DEVICE	33A-EO	626	VON DUPRIN
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

SET 08

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	CLASSROOM SEC	L9071R X 05A	626	SCHLAGE
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON

SET 09

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	OFFICE LOCK	L9050R X 05A	626	SCHLAGE
1 EA	WALL STOP	409	630	ROCKWOOD

SET 10

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 805A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 11

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP X CUSH	689	LCN
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 12

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	ELECTRIC HINGE	AS SPECIFIED X ETW-6	652	HAGER
1 EA	ELECTRIC LOCK	RX-L9092REU X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 EA	POSITION SWITCH	1078	GRY	GE

**CARD READER BY OTHERS.

SET 13

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 14

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	CORRIDOR LOCK	L9456R X 05A X L283-722	626	SCHLAGE
1 EA	WALL STOP	409	630	ROCKWOOD

SET 15

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	PRIVACY	L9040 X 05A X L283-722	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 16

1 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
1 EA	CLASSROOM SEC	L9071R X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 17

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	CLASSROOM LOCK	L9070 X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 18

2 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
2 EA	EXIT DEVICE	9927L-BE-F X LBR	626	VON DUPRIN
2 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
2 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 EA	ASTRAGAL	5070CL	AL	NGP
1 SET	SEALS	5050C	BLK	NGP

SET 19

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	PASSAGE	L9010 X 05A	626	SCHLAGE
1 EA	WALL STOP	409	630	ROCKWOOD

SET 20

1 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
1 EA	CLASSROOM SEC	L9071R X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 21

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	ELECTRIC HINGE	AS SPECIFIED X ETW-6	652	HAGER
1 EA	ELECTRIC LOCK	RX-L9092REU X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 EA	POSITION SWITCH	1078	GRY	GE

**CARD READER BY OTHERS.

OPERATION: DOOR NORMALLY LOCKED AND CLOSED. VALID CARD READ UNLOCKS ELECTRIC LOCK TO ALLOW ENTRY. FREE EGRESS IS ALWAYS ALLOWED.

SET 22

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	CLASSROOM LOCK	L9070R X 05A	626	SCHLAGE
1 EA	WALL STOP	409	630	ROCKWOOD

SET 23

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	OFFICE LOCK	L9050R X 05A	626	SCHLAGE
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON

SET 24

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET	SEALS	5050C	BLK	NGP

SET 25

EA	HINGES	AS SPECIFIED	652	HAGER
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1 EA	CLASSROOM LOCK	L9070R X 05A	626	SCHLAGE
1 EA	CLOSER W/HOLD	4040XP-H	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 26

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STORE LOCK	L9466R X 05A	626	SCHLAGE
1 EA	WALL STOP	409	630	ROCKWOOD

SET 27

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	EXIT DEVICE	99L-NL	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
1 EA	CLOSER	4040XP X CUSH	689	LCN
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

**PROVIDE KNURLED LEVER.

SET 28

2 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
2 EA	PUSH/PULL	BF15847	630	HAGER
2 EA	CLOSER	4040XP	689	LCN
1 EA	AUTO OPERATOR	4640	689	LCN
1 EA	ACTUATOR	8310-856T	630	LCN
1 EA	FLUSH MOUNT BOX	8310-868F	---	LCN
1 EA	DUAL ACTUATOR	8310-855	---	LCN
1 EA	FLUSH MOUNT BOX	8310-867F	---	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

SET 29

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STORE LOCK	L9466R X 05A	626	SCHLAGE
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON

SET 30

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 05A	626	SCHLAGE
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON

SET 31

2 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
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2 EA	EXIT DEVICE	9927L-BE-F X LBR	626	VON DUPRIN
2 EA	CLOSER	4040XP	689	LCN
2 EA	MAG HOLD OPEN	SEM7850	689	LCN
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1 EA	ASTRAGAL	5070CL	AL	NGP
1 SET	SEALS	5050C	BLK	NGP

SET 32

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 805A	626	SCHLAGE
1 EA	CLOSER	4040XP X CUSH	689	LCN
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 33

2 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
2 EA	EXIT DEVICE	99L-F	626	VON DUPRIN
3 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	KEYED MULLION	KR9954	SP28	VON DUPRIN
2 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET	ASTRAGAL	115N	AL	NGP
1 SET	SEALS	5050C	BLK	NGP

SET 34

2 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
1 EA	EXIT DEVICE	9975L-BE-F	626	VON DUPRIN
1 EA	EXIT DEVICE	9947L-BE-F	626	VON DUPRIN
2 EA	CLOSER	4040XP	689	LCN
2 EA	MAG HOLD OPEN	SEM7850	689	LCN
1 EA	CARRY BAR	CB1	626	IVES
1 EA	COORDINATOR	COR X FL	628	IVES
2 EA	MNTG BRACKET	AS REQUIRED	628	IVES
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1 EA	ASTRAGAL	BY DOOR SUPPLIER		
1 SET	SEALS	5050C	BLK	NGP

SET 35

2 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
2 EA	EXIT DEVICE	3347EO	626	VON DUPRIN
2 EA	PULLS	BF158	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP
2 EA	POSITION SWITCH	1078	GRY	GE

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

SET 36

1 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
1 EA	EXIT DEVICE	33A-EO	626	VON DUPRIN
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP
1 EA	POSITION SWITCH	1078	GRY	GE

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

SET 37

1 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
1 EA	EXIT DEVICE	99NL-OP	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
1 EA	PULL	BF158	630	ROCKWOOD
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 SET	WEATHERSTRIP	160S	AL	NGP
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP
1 EA	POSITION SWITCH	1078	GRY	GE

SET 38

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	CLASSROOM LOCK	L9070R X 05A	626	SCHLAGE
1 EA	OVERHEAD STOP	GJ90 SERIES	630	GLYNN-JOHNSON

SET 39

1 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
1 EA	EXIT DEVICE	33A-NL-OP	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
1 EA	PULL	BF158	630	ROCKWOOD
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	ELECTRIC STRIKE	6300	630	VON DUPRIN
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP
1 EA	POSITION SWITCH	1078	GRY	GE

**CARD READERS BY OTHERS.

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

OPERATION: DOOR NORMALLY LOCKED AND CLOSED. VALID CARD READ ACTIVATES ELECTRIC STRIKE TO ALLOW ENTRY. AT DISCRETION OF FACILITY, ELECTRIC STRIKE CAN BE PROGRAMMED TO BE RELEASED TO ALLOW ENTRY. FREE EGRESS IS ALWAYS ALLOWED.

SET 40

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 805A	626	SCHLAGE
2 EA	CLOSER	4040XP X CUSH	689	LCN
1 SET	AUTO FLUSHBOLTS	FB31P/FB41P	630	IVES
1 EA	DUSTPROOF STRIKE	DP2	626	IVES
1 EA	COORDINATOR	COR X FL	628	IVES
2 EA	MNTG BRACKETS	AS REQUIRED	628	IVES
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1 EA	ASTRAGAL	5070CL	AL	NGP
1 SET	SEALS	5050C	BLK	NGP

SET 41

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 805A	626	SCHLAGE
2 EA	CLOSER	4040XP	689	LCN
2 EA	WALL STOP	409	630	ROCKWOOD
1 SET	AUTO FLUSHBOLTS	FB31P/FB41P	630	IVES
1 EA	DUSTPROOF STRIKE	DP2	626	IVES
1 EA	COORDINATOR	COR X FL	628	IVES
2 EA	MNTG BRACKETS	AS REQUIRED	628	IVES
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD

**ALLOW 180 DEGREE SWING.

SET 42

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	EXIT DEVICE	99L-2SI	626	VON DUPRIN
2 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
1 EA	CLOSER W/HOLD	4040XP-H	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 43

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	CLASSROOM LOCK	L9070R X 05A	626	SCHLAGE
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON

SET 44

1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
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**BALANCE OF HARDWARE BY DOOR SUPPLIER.

SET 45

EA	HINGES	AS SPECIFIED	630	HAGER
1 EA	STOREROOM LOCK	L9080R X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 SET	WEATHERSTRIP	160S	AL	NGP
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP

SET 46

1 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
1 EA	EXIT DEVICE	99NL-OP	626	VON DUPRIN
1 EA	CYLINDER	AS REQUIRED	626	VON DUPRIN
1 EA	PULL	BF158	630	ROCKWOOD
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET	WEATHERSTRIP	160S	AL	NGP
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP

SET 47

EA	HINGES	AS SPECIFIED	630	HAGER
1 EA	ENTRANCE LOCK	L9453R X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 SET	WEATHERSTRIP	160S	AL	NGP
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP

SET 48

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	PRIVACY	L9040 X 05A X L283-722	626	SCHLAGE
1 EA	WALL STOP	409	630	ROCKWOOD

SET 49

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 05A	626	SCHLAGE
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON

1	SET AUTO FLUSHBOLTS	FB31P	630	IVES
1	EA DUSTPROOF STRIKE	DP1	626	IVES
1	EA COORDINATOR	COR X FL	628	IVES
2	EA MNTG BRACKETS	AS REQUIRED	628	IVES
2	EA KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1	SET ASTRAGAL	115N	AL	NGP
1	SET SEALS	5050C	BLK	NGP
1	EA THRESHOLD	8425	AL	NGP

SET 50

1	EA CLASSROOM LOCK	ND70RD X ATH	626	SCHLAGE
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**BALANCE OF HARDWARE TO BE PROVIDED BY DOOR SUPPLIER.

SET 51

1	EA CONTINUOUS HINGE	780-112HD X EPT PREP	CLR	HAGER
1	EA CONTINUOUS HINGE	780-112HD	CLR	HAGER
1	EA POWER TRANSFER	EPT-10	SP28	VON DUPRIN
1	EA EXIT DEVICE	QEL3347A-NL-OP	626	VON DUPRIN
1	EA EXIT DEVICE	3347EO	626	VON DUPRIN
1	EA I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2	EA PULLS	BF158	630	ROCKWOOD
2	EA CLOSER	4040XP	689	LCN
2	EA OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1	EA POWER SUPPLY	PS902 X 900-2RS	GRY	VON DUPRIN
2	EA SWEEP	200N	AL	NGP
1	EA THRESHOLD	8425	AL	NGP
2	EA POSITION SWITCH	1078	GRY	GE

**CARD READER BY OTHERS.

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

OPERATION: DOORS NORMALLY LOCKED AND CLOSED. VALID CARD READ ACTIVATES ELECTRIC LATCH RETRACTION EXIT DEVICE TO ALLOW ENTRY. AT DISCRETION OF FACILITY, ELECTRIC LATCH RETRACTION EXIT DEVICE CAN BE PROGRAMMED TO BE RETRACTED TO ALLOW ENTRY. FREE EGRESS IS ALWAYS ALLOWED.

SET 52

	EA HINGES	AS SPECIFIED	652	HAGER
1	EA CLASSROOM SEC	L9071R X 05A	626	SCHLAGE
1	EA SENTRONIC CLOSER	4040SE	689	LCN
1	EA MAG HOLD OPEN	SEM7850	689	LCN
1	EA OVERHEAD STOP	GJ100SE	630	GLYNN-JOHNSON
1	SET SEALS	5050C	BLK	NGP

SET 53

2 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
2 EA	EXIT DEVICE	9927L-F X LBR	626	VON DUPRIN
2 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	CLOSER	4040XP	689	LCN
2 EA	MAG HOLD OPEN	SEM7850	689	LCN
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1 EA	ASTRAGAL	5070CL	AL	NGP
1	SET SEALS	5050C	BLK	NGP

**PROVIDE EXTENSIONS AS NEEDED FOR THE MAGNETIC HOLD OPENS.

SET 54

2 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
1 EA	EXIT DEVICE	3347A-NL-OP	626	VON DUPRIN
1 EA	EXIT DEVICE	3347EO	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	PULLS	BF158	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD HOLDER	GJ100 SERIES	630	GLYNN-JOHNSON

SET 55

2 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
2 EA	EXIT DEVICE	3347EO	626	VON DUPRIN
2 EA	PULLS	BF158	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD HOLDER	GJ100H SERIES	630	GLYNN-JOHNSON

SET 56

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	EXIT DEVICE	99L-2SI	626	VON DUPRIN
2 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD HOLDER	GJ100H SERIES	630	GLYNN-JOHNSON
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 57

1 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
1 EA	EXIT DEVICE	33A-NL-OP-WH	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
1 EA	PULL	BF158	630	ROCKWOOD
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP

**SEALS BY DOOR SUPPLIER.

SET 58

2 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
1 EA	EXIT DEVICE	3347A-NL-OP-WH	626	VON DUPRIN
1 EA	EXIT DEVICE	3347EO-WH	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	PULLS	BF158	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD HOLDER	GJ100 SERIES	630	GLYNN-JOHNSON
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP

**SEALS BY DOOR SUPPLIER.

SET 59

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	CLASSROOM SEC	L9071R X 05A	626	SCHLAGE
1 EA	WALL STOP	409	630	ROCKWOOD

SET 60

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 805A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

**FIELD VERIFY EXISTING FRAME PREPS AND PROVIDE HINGES AND STRIKE TO MATCH EXISTING PREP.

SET 61

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

**FIELD VERIFY EXISTING FRAME PREPS AND PROVIDE HINGES AND STRIKE TO MATCH EXISTING PREP.

SET 62

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	OFFICE LOCK	L9050R X 05A	626	SCHLAGE
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 SET	AUTO FLUSHBOLTS	FB41P	630	IVES

1 EA	DUSTPROOF STRIKE	DP2	626	IVES
1 EA	COORDINATOR	COR X FL	628	IVES
2 EA	MNTG BRACKETS	AS REQUIRED	628	IVES
1 SET	ASTRAGAL	115N	AL	NGP
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD

SET 63

2 EA	CONTINUOUS HINGE	780-226HD	CLR	HAGER
1 EA	EXIT DEVICE	CDSI9927L-NL X LBR	626	VON DUPRIN
1 EA	EXIT DEVICE	CDSI9927L-DT X LBR	626	VON DUPRIN
3 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	CLOSER W/HOLD	4040XP-H	689	LCN
2 EA	WALL STOP	409	630	ROCKWOOD
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
1 EA	ASTRAGAL	116N	AL	NGP
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

SET 64

2 EA	CONTINUOUS HINGE	780-112HD X EPT PREP	CLR	HAGER
2 EA	POWER TRANSFER	EPT-10	SP28	VON DUPRIN
1 EA	EXIT DEVICE	RX-QEL3347NL-OP	626	VON DUPRIN
1 EA	EXIT DEVICE	RX-QEL3347EO	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	PULLS	BF158	630	ROCKWOOD
1 EA	CLOSER	4040XP	689	LCN
1 EA	AUTO OPERATOR	4640	689	LCN
1 EA	ACTUATOR	8310-856T	630	LCN
1 EA	FLUSH MOUNT BOX	8310-868F	---	LCN
1 EA	WEATHER RING	8310-800	---	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	POWER SUPPLY	PS904 X 900-2RS	GRY	VON DUPRIN
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP
2 EA	POSITION SWITCH	1078	GRY	GE

**CARD READER BY OTHERS.

**OPENING TIED INTO SECURITY SYSTEM.

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

OPERATION: DOORS NORMALLY LOCKED AND CLOSED. VALID CARD READ ACTIVATES ELECTRIC LATCH RETRACTION EXIT DEVICE AND ACTIVATES OUTSIDE AUTOMATIC OPERATOR ACUTATOR TO ALLOW ENTRY. WHEN DOORS ARE PROGRAMMED TO BE OPENED BY SECURITY SYSTEM, THE OUTSIDE AUTOMATIC OPERATOR ACTUATOR IS TO BE ACTIVE. INSIDE AUTOMATIC OPERATOR ACTUATOR

IS ALWAYS ACTIVE (PRESSING BUTTON ACTIVATES ELECTRIC LATCH RETRACTION EXIT DEVICE AND ACTIVATES AUTOMATIC OPERATOR). FREE EGRESS IS ALWAYS ALLOWED.

SET 65

2 EA	CONTINUOUS HINGE	780-112HD X EPT PREP	CLR	HAGER
2 EA	POWER TRANSFER	EPT-10	SP28	VON DUPRIN
2 EA	EXIT DEVICE	RX-QEL3347EO	626	VON DUPRIN
2 EA	PULLS	BF158	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	POWER SUPPLY	PS904 X 900-2RS	GRY	VON DUPRIN
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP
2 EA	POSITION SWITCH	1078	GRY	GE

**OPENING TIED INTO SECURITY SYSTEM.

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

OPERATION: DOORS NORMALLY LOCKED AND CLOSED. SECURITY SYSTEM CONTROLS WHEN ELECTRIC LATCH RETRACTION EXIT DEVICES ARE ACTIVATES FOR ENTRY. FREE EGRESS IS ALWAYS ALLOWED.

SET 66

2 EA	CONTINUOUS HINGE	780-112HD X EPT PREP	CLR	HAGER
2 EA	POWER TRANSFER	EPT-10	SP28	VON DUPRIN
2 EA	EXIT DEVICE	RX-QEL3347EO	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	PULLS	BF158	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	POWER SUPPLY	PS904 X 900-2RS	GRY	VON DUPRIN
2 EA	POSITION SWITCH	1078	GRY	GE

**DOORS TIED INTO SECURITY SYSTEM.

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

OPERATION: DOORS NORMALLY LOCKED AND CLOSED. DOORS CAN BE PROGRAMMED TO HAVE ELECTRIC LATCH RETRACTION EXIT DEVICES ACTIVATES AS DESIRED FOR ENTRY. FREE EGRESS IS ALWAYS ALLOWED.

SET 67

2 EA	CONTINUOUS HINGE	780-112HD X EPT PREP	CLR	HAGER
2 EA	POWER TRANSFER	EPT-10	SP28	VON DUPRIN

1 EA	EXIT DEVICE	RX-QEL3347NL-OP	626	VON DUPRIN
1 EA	EXIT DEVICE	RX-QEL3347EO	626	VON DUPRIN
2 EA	PULLS	BF158	630	ROCKWOOD
1 EA	CLOSER	4040XP	689	LCN
1 EA	AUTO OPERATOR	4640	689	LCN
1 EA	ACTUATOR	8310-856T	630	LCN
1 EA	FLUSH MOUNT BOX	8310-868F	---	LCN
1 EA	DUAL ACTUATOR	8310-855	---	LCN
1 EA	FLUSH MOUNT BOX	8310-867F	---	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	POWER SUPPLY	PS904 X 900-2RS	GRY	VON DUPRIN
2 EA	POSITION SWITCH	1078	GRY	GE

**CARD READER BY OTHERS.

**OPENING TIED INTO SECURITY SYSTEM.

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

OPERATION: DOORS NORMALLY LOCKED AND CLOSED. VALID CARD READ ACTIVATES ELECTRIC LATCH RETRACTION EXIT DEVICE AND ACTIVATES PULL SIDE AUTOMATIC OPERATOR ACTATOR TO ALLOW ENTRY. WHEN DOORS ARE PROGRAMMED TO BE OPENED BY SECURITY SYSTEM, THE PULL SIDE AUTOMATIC OPERATOR ACTUATOR IS TO BE ACTIVE. PUSH SIDE AUTOMATIC OPERATOR ACTUATOR IS ALWAYS ACTIVE (PRESSING BUTTON ACTIVATES ELECTRIC LATCH RETRACTION EXIT DEVICE AND ACTIVATES AUTOMATIC OPERATOR). FREE EGRESS IS ALWAYS ALLOWED.

SET 68

2 EA	CONTINUOUS HINGE	780-112HD X EPT PREP	CLR	HAGER
2 EA	POWER TRANSFER	EPT-10	SP28	VON DUPRIN
2 EA	EXIT DEVICE	RX-QEL3347EO	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	PULLS	BF158	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	REMOTE RELEASE	PB660-PB	AL	SCHLAGE
1 EA	POWER SUPPLY	PS904 X 900-2RS	GRY	VON DUPRIN
2 EA	POSITION SWITCH	1078	GRY	GE

**REMOTE RELEASE BY OTHERS.

**DOORS TIED INTO SECURITY SYSTEM.

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

OPERATION: DOORS NORMALLY LOCKED AND CLOSED. REMOTE RELEASE ACTIVATES ELECTRIC LATCH RETRACTION EXIT DEVICES TO ALLOW ENTRY. DOORS CAN BE PROGRAMMED TO HAVE ELECTRIC LATCH RETRACTION EXIT DEVICES ACTIVATES AS DESIRED FOR ENTRY. FREE EGRESS IS ALWAYS ALLOWED.

SET 69

2 EA	CONTINUOUS HINGE	780-226HD	CLR	HAGER
1 EA	EXIT DEVICE	CDSI9947WDC-NL-OP X LBR	626	VON DUPRIN
1 EA	EXIT DEVICE	CDSI9947WDC-EO-LBR	626	VON DUPRIN
3 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	PULL	RM2312-36"	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD HOLDER	GJ100H	630	GLYNN-JOHNSON
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1 SET	ASTRAGAL	115N	AL	NGP
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

SET 70

2 EA	CONTINUOUS HINGE	780-226HD	CLR	HAGER
2 EA	DUMMY PUSH	330	626	VON DUPRIN
2 EA	PULL	RM2312-36"	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD HOLDER	GJ100H	630	GLYNN-JOHNSON
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1 EA	ASTRAGAL	116N	AL	NGP
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

SET 71

1 EA	CONTINUOUS HINGE	780-226HD	CLR	HAGER
1 EA	DUMMY PUSH	330	626	VON DUPRIN
1 EA	PULL	BF158	630	ROCKWOOD
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD HOLDER	GJ100H	630	GLYNN-JOHNSON
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

SET 72

EA	HINGES	AS SPECIFIED	652	HAGER
2 EA	PUSH	70C	626	ROCKWOOD
2 EA	PULL	BF111 X 70C	630	ROCKWOOD
2 EA	CLOSER	4040XP-H	689	LCN

2 EA	OVERHEAD STOP	GJ100	630	GLYNN-JOHNSON
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1 EA	ASTRAGAL	115N	AL	NGP
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

**PROVIDE LCN SPECIAL TEMPLATE ST1630 X 4040XP-18TJ AS REQUIRED FOR CLOSER AND OVERHEAD STOP INSTALLATION.

SET 74

1 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
1 EA	PUSH	70C X C/C	630	ROCKWOOD
1 EA	PULL	BF111 X 70C C/C	630	ROCKWOOD
1 EA	DEADBOLT	L463R	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

**PROVIDE LCN SPECIAL TEMPLATE ST1630 X 4040XP-18TJ AS REQUIRED FOR CLOSER AND OVERHEAD STOP INSTALLATION.

SET 75

2 EA	CONTINUOUS HINGE	780-226HD	CLR	HAGER
2 EA	DUMMY PUSH	330	626	VON DUPRIN
2 EA	PULL	BF158	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD HOLDER	GJ100H	630	GLYNN-JOHNSON
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1 SET	ASTRAGAL	115N	AL	NGP
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

SET 76

2 EA	CONTINUOUS HINGE	780-226HD	CLR	HAGER
2 EA	EXIT DEVICE	9927L X LBR	626	VON DUPRIN
2 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD HOLDER	GJ100H SERIES	630	GLYNN-JOHNSON
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1 SET	ASTRAGAL	115N	AL	NGP
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

SET 77

1 EA	CONTINUOUS HINGE	780-226HD	CLR	HAGER
1 EA	EXIT DEVICE	CDSI99NL-OP	626	VON DUPRIN
2 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
1 EA	PULL	BF158	630	ROCKWOOD
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD HOLDER	GJ100H	630	GLYNN-JOHNSON
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

SET 78

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	CLASSROOM LOCK	L9070R X 05A	626	SCHLAGE
2 EA	CLOSER W/HOLD	4040XP-H	689	LCN
2 EA	WALL STOP	409	630	ROCKWOOD
1 SET	AUTO FLUSHBOLTS	FB31P/FB41P	630	IVES
1 EA	DUSTPROOF STRIKE	DP2	626	IVES
1 EA	COORDINATOR	COR X FL	628	IVES
2 EA	MNTG BRACKETS	AS REQUIRED	628	IVES
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1 SET	ASTRAGAL	115N	AL	NGP
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

**ALLOW 180 DEGREE SWING.

**PROVIDE LOCK EXTENDED EQUALLY.

SET 79

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	CLASSROOM SEC	L9071R X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

**PROVIDE LCN SPECIAL TEMPLATE ST1630 X 4040XP-18TJ AS REQUIRED FOR CLOSER AND OVERHEAD STOP INSTALLATION.

SET 80

EA HINGES	AS SPECIFIED	652	HAGER
1 EA PRIVACY	L9040 X 05A X L283-722	626	SCHLAGE
1 EA CLOSER	4040XP	689	LCN
1 EA WALL STOP	409	630	ROCKWOOD
1 EA KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET SEALS	5020C	BLK	NGP
1 SET GASKET	104N	AL	NGP
1 EA SWEEP	200N	AL	NGP
1 EA THRESHOLD	412	AL	NGP

**PROVIDE LOCK EXTENDED EQUALLY.

SET 81

1 EA CONTINUOUS HINGE	780-226HD	CLR	HAGER
1 EA PUSH	70C X C/C	630	ROCKWOOD
1 EA PULL	BF111 X 70C C/C	630	ROCKWOOD
1 EA DEADBOLT	L463R	626	SCHLAGE
1 EA CLOSER	4040XP	689	LCN
1 EA OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET SEALS	5020C	BLK	NGP
1 SET GASKET	104N	AL	NGP
1 EA SWEEP	200N	AL	NGP
1 EA THRESHOLD	412	AL	NGP

**PROVIDE LOCK EXTENDED EQUALLY.

SET 82

EA HINGES	AS SPECIFIED	652	HAGER
1 EA ELECTRIC HINGE	AS SPECIFIED X ETW-8	652	HAGER
1 EA ELECTRIC LOCK	RX-L9092EL X 05A	626	SCHLAGE
1 EA I/C CYLINDER	AS REQUIRED	626	SCHLAGE
1 EA CLOSER	4040XP	689	LCN
1 EA WALL STOP	409	630	ROCKWOOD
1 EA LOCKING SWITCH	CB402A	630	SDC
1 EA EMERGENCY	CB702B	RED	SDC
1 EA POWER SUPPLY	631RF X UR1	GRY	SDC
1 SET SEALS	5020C	BLK	NGP
1 SET GASKET	104N	AL	NGP
1 EA SWEEP	200N	AL	NGP
1 EA THRESHOLD	412	AL	NGP
1 EA POSITION SWITCH	1078	GRY	GE

**PROVIDE LOCK EXTENDED EQUALLY.

SET 83

EA HINGES	AS SPECIFIED	652	HAGER
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1 EA	ELECTRIC HINGE	AS SPECIFIED X ETW-8	652	HAGER
1 EA	ELECTRIC LOCK	RX-L9092EL X 05A	626	SCHLAGE
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	EMERGENCY	CB702B	RED	SDC
1 EA	POSITION SWITCH	1078	GRY	GE

**THIS SET IS TO SHARE POWER SUPPLY AND LOCKING SWITCH IN SET 82.

SET 84

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	CLASSROOM SEC	L9071R X 05A	626	SCHLAGE
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

**PROVIDE LOCK EXTENDED EQUALLY.

SET 85

2 EA	CONTINUOUS HINGE	780-112HD	CLR	HAGER
1 EA	EXIT DEVICE	3347NL-OP	626	VON DUPRIN
1 EA	EXIT DEVICE	3347EO	626	VON DUPRIN
1 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE
2 EA	PULLS	BF158	630	ROCKWOOD
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	8425	AL	NGP

**PROVIDE DROP PLATE AND BLADE STOP SPACERS AS REQUIRED FOR CLOSER INSTALLATION.

**SEALS BY DOOR SUPPLIER.

SET 86

2 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
2 EA	EXIT DEVICE	9927L-BE X LBR	626	VON DUPRIN
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD HOLDER	GJ100H SERIES	630	GLYNN-JOHNSON
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD

SET 87

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	EXIT DEVICE	QEL99L-NL-F	626	VON DUPRIN
2 EA	I/C CYLINDER	AS REQUIRED	626	SCHLAGE

1 EA CLOSER	4040XP	689	LCN
1 EA OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 EA POWER SUPPLY	PS902 X 900-2RS-FA	GRY	VON DUPRIN
1 EA KEY SWITCH	653-04	630	SCHLAGE
1 SET SEALS	5020C	BLK	NGP
1 SET GASKET	104N	AL	NGP
1 EA SWEEP	200N	AL	NGP
1 EA THRESHOLD	412	AL	NGP

**KEYSWITCH CONTROLS ELECTRIC LATCH RETRACTION (LOCKING/UNLOCKING). UPON FIRE ALARM DOOR WILL LATCH AND LOCK REGARDLESS OF KEY SWITCH SETTING.

SET 88

EA HINGES	AS SPECIFIED	652	HAGER
1 EA PUSH	70C	630	ROCKWOOD
1 EA PULL	BF111	630	ROCKWOOD
1 EA CLOSER	4040XP	689	LCN
1 EA OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET SEALS	5020C	BLK	NGP
1 SET GASKET	104N	AL	NGP
1 EA SWEEP	200N	AL	NGP
1 EA THRESHOLD	412	AL	NGP

**PROVIDE LCN SPECIAL TEMPLATE ST1630 X 4040XP-18TJ AS REQUIRED FOR CLOSER AND OVERHEAD STOP INSTALLATION.

SET 89

1 EA CONTINUOUS HINGE	780-226HD	CLR	HAGER
1 EA DUMMY PUSH	330	626	VON DUPRIN
1 EA PULL	RM2312-36"	630	ROCKWOOD
1 EA CLOSER	4040XP	689	LCN
1 EA OVERHEAD HOLDER	GJ100H	630	GLYNN-JOHNSON
1 EA KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET SEALS	5020C	BLK	NGP
1 SET GASKET	104N	AL	NGP
1 EA SWEEP	200N	AL	NGP
1 EA THRESHOLD	412	AL	NGP

SET 90

1 EA CONTINUOUS HINGE	780-226HD	CLR	HAGER
1 EA EXIT DEVICE	CDSI99NL-OP	626	VON DUPRIN
2 EA I/C CYLINDER	AS REQUIRED	626	SCHLAGE
1 EA PULL	RM2312-36"	630	ROCKWOOD
1 EA CLOSER	4040XP	689	LCN
1 EA OVERHEAD HOLDER	GJ100H	630	GLYNN-JOHNSON

1 EA KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET SEALS	5020C	BLK	NGP
1 SET GASKET	104N	AL	NGP
1 EA SWEEP	200N	AL	NGP
1 EA THRESHOLD	412	AL	NGP

SET 91

1 EA CONTINUOUS HINGE	780-226HD	CLR	HAGER
1 EA PUSH	70C	630	ROCKWOOD
1 EA PULL	BF111 X 70C	630	ROCKWOOD
1 EA CLOSER	4040XP	689	LCN
1 EA OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET SEALS	5020C	BLK	NGP
1 SET GASKET	104N	AL	NGP
1 EA SWEEP	200N	AL	NGP
1 EA THRESHOLD	412	AL	NGP

**PROVIDE LCN SPECIAL TEMPLATE ST1630 X 4040XP-18TJ AS REQUIRED FOR CLOSER AND OVERHEAD STOP INSTALLATION.

SET 92

2 EA CONTINUOUS HINGE	780-224HD	CLR	HAGER
2 EA EXIT DEVICE	9927L-BE-F X LBR	626	VON DUPRIN
2 EA CLOSER	4040XP	689	LCN
2 EA WALL STOP	409	630	ROCKWOOD
2 EA KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 EA ASTRAGAL	5070CL	AL	NGP
1 SET SEALS	5050C	BLK	NGP

SET 93

EA HINGES	AS SPECIFIED	652	HAGER
1 EA CLASSROOM LOCK	L9070 X 05A	626	SCHLAGE
1 EA CLOSER	4040XP	689	LCN
1 EA OVERHEAD TSOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET SEALS	5020C	BLK	NGP
1 SET GASKET	104N	AL	NGP
1 EA SWEEP	200N	AL	NGP
1 EA THRESHOLD	412	AL	NGP

**PROVIDE LOCK EXTENDED EQUALLY.

SET 94

EA HINGES	AS SPECIFIED	652	HAGER
1 EA PASSAGE	L9010 X 05A	626	SCHLAGE
1 EA OVERHEAD STOP	GJ90 SERIES	630	GLYNN-JOHNSON

SET 95

1 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
1 EA	EXIT DEVICE	99L-BE-F	626	VON DUPRIN
1 EA	CLOSER	4040XP	689	LCN
1 EA	MAG HOLD OPEN	SEM7850	689	LCN
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET	SEALS	5050C	BLK	NGP

SET 96

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	CLASSROOM LOCK	L9070 X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

**PROVIDE LOCK EXTENDED EQUALLY.

SET 97

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	PASSAGE	L9010 X 05A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

**PROVIDE LOCK EXTENDED EQUALLY.

SET 98

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 805A	626	SCHLAGE
1 EA	CLOSER	4040XP	689	LCN
1 EA	WALL STOP	409	630	ROCKWOOD
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
1 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

**PROVIDE LOCK EXTENDED EQUALLY.

SET 99

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	CLASSROOM LOCK	L9070R X 05A	626	SCHLAGE
2 EA	CLOSER	4040XP X SHCUSH	689	LCN
1 SET	AUTO FLUSHBOLTS	FB31P/FB41P	630	IVES
1 EA	DUSTPROOF STRIKE	DP2	626	IVES
1 EA	COORDINATOR	COR X FL	628	IVES
2 EA	MNTG BRACKETS	AS REQUIRED	628	IVES
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD

SET 100

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	PASSAGE	L9010 X 05A	626	SCHLAGE
2 EA	CLOSER	4040XP X SHCUSH	689	LCN
1 SET	AUTO FLUSHBOLTS	FB31P/FB41P	630	IVES
1 EA	DUSTPROOF STRIKE	DP2	626	IVES
1 EA	COORDINATOR	COR X FL	628	IVES
2 EA	MNTG BRACKETS	AS REQUIRED	628	IVES
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD

SET 101

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	STOREROOM LOCK	L9080R X 05A	626	SCHLAGE
2 EA	CLOSER	4040XP X CUSH	689	LCN
1 SET	AUTO FLUSHBOLTS	FB31P/FB41P	630	IVES
1 EA	DUSTPROOF STRIKE	DP2	626	IVES
1 EA	COORDINATOR	COR X FL	628	IVES
2 EA	MNTG BRACKETS	AS REQUIRED	628	IVES
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD

SET 102

2 EA	CONTINUOUS HINGE	780-224HD	CLR	HAGER
2 EA	EXIT DEVICE	9927L-BE-F X LBR	626	VON DUPRIN
2 EA	CLOSER	4040XP	689	LCN
2 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
2 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD
1 EA	ASTRAGAL	5070CL	AL	NGP
1 SET	SEALS	5050C	BLK	NGP

SET 103

EA	HINGES	AS SPECIFIED	652	HAGER
1 EA	PUSH	70C	630	ROCKWOOD
1 EA	PULL	BF111	630	ROCKWOOD
1 EA	CLOSER	4040XP	689	LCN
1 EA	OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA	KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 104

EA HINGES	AS SPECIFIED	652	HAGER
1 EA PUSH	70C	630	ROCKWOOD
1 EA PULL	BF111	630	ROCKWOOD
1 EA CLOSER	4040XP	689	LCN
1 EA WALL STOP	409	630	ROCKWOOD
1 EA KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 105

1 EA CONTINUOUS HINGE	780-224HD	CLR	HAGER
1 EA PUSH	70C X C/C	630	ROCKWOOD
1 EA PULL	BF111 X 70C C/C	630	ROCKWOOD
1 EA DEADBOLT	L463R	626	SCHLAGE
1 EA CLOSER	4040XP	689	LCN
1 EA WALL STOP	409	630	ROCKWOOD
1 EA KICKPLATE	10" X 2" LDW	630	ROCKWOOD

SET 106

EA HINGES	AS SPECIFIED	652	HAGER
1 EA STOREROOM LOCK	L9080R X 05A	626	SCHLAGE
2 EA CLOSER	4040XP	689	LCN
2 EA OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 SET AUTO FLUSHBOLTS	FB31P/FB41P	630	IVES
1 EA DUSTPROOF STRIKE	DP2	626	IVES
1 EA COORDINATOR	COR X FL	628	IVES
2 EA KICKPLATE	10" X 1" LDW	630	ROCKWOOD

**PROVIDE LCN SPECIAL TEMPLATE ST1630 X 4040XP-18TJ AS REQUIRED FOR CLOSER AND OVERHEAD STOP INSTALLATION.

SET 107

EA HINGES	AS SPECIFIED	652	HAGER
1 EA STOREROOM LOCK	L9080R X 805A	626	SCHLAGE
1 EA CLOSER	4040XP	689	LCN
1 EA OVERHEAD STOP	GJ100 SERIES	630	GLYNN-JOHNSON
1 EA KICKPLATE	10" X 2" LDW	630	ROCKWOOD

**PROVIDE LCN SPECIAL TEMPLATE ST1630 X 4040XP-18TJ AS REQUIRED FOR CLOSER AND OVERHEAD STOP INSTALLATION.

SET 108

2 EA CONTINUOUS HINGE	780-226HD	CLR	HAGER
2 EA PUSH	70C	626	ROCKWOOD
2 EA PULL	BF111 X 70C	630	ROCKWOOD
2 EA CLOSER	4040XP	689	LCN

2 EA	OVERHEAD HOLDER	GJ100H	630	GLYNN-JOHNSON
2 EA	KICKPLATE	10" X 1" LDW	630	ROCKWOOD
1 EA	ASTRAGAL	115N	AL	NGP
1 SET	SEALS	5020C	BLK	NGP
1 SET	GASKET	104N	AL	NGP
2 EA	SWEEP	200N	AL	NGP
1 EA	THRESHOLD	412	AL	NGP

SECTION 088000 - GLAZING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes:
 - 1. Glass for doors, interior borrowed lites, storefront framing, and glazed curtain walls.
 - 2. Glazing sealants and accessories.
- B. Related Requirements:
 - 1. Division 08 Section "Structural-Sealant-Glazed Curtain Walls" for glazing sealants used in structural-sealant-glazed curtain walls.
 - 2. Division 08 Section "Fire-Resistant Glazing."
 - 3. Division 08 Section "Security Glazing."

1.3 DEFINITIONS

- A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- B. Glass Thicknesses: Indicated by thickness designations in millimeters according to ASTM C 1036.
- C. Interspace: Space between lites of an insulating-glass unit that contains dehydrated air or a specified gas.

1.4 COORDINATION

- A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.5 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 2. Review temporary protection requirements for glazing during and after installation.

1.6 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Sustainable Design Submittal:
 - 1. Laboratory Test Reports: For sealants, indicating compliance with requirements for low-emitting materials.
- C. Glass Samples: For each type of glass product other than clear monolithic vision glass, 12-inches square.
- D. Glazing Accessory Samples: For sealants, in 12-inch lengths.
- E. Glazing Schedule: Use same designations indicated on Drawings for glazed openings in preparing a schedule listing glass types and thicknesses for each size opening and location.

1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For installers.
- B. Product Certificates: For glass and glazing products, from manufacturer.
- C. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for coated glass, insulating glass, glazing sealants, and glazing gaskets.
 - 1. For glazing sealants, provide test reports based on testing current sealant formulations within previous 36-month period.
- D. Preconstruction adhesion and compatibility test report.
- E. Warranties: Special warranties specified in this Section.

1.8 QUALITY ASSURANCE

- A. Manufacturer Qualifications for Insulating-Glass Units with Sputter-Coated, Low-E Coatings: A qualified insulating-glass manufacturer who is approved by coated-glass manufacturer.
- B. Installer Qualifications: A qualified installer who employs glass installers for this Project who are certified under the National Glass Association's Certified Glass Installer Program.
- C. Glass Testing Agency Qualifications: A qualified independent testing agency accredited according to the NFRC CAP 1 Certification Agency Program.
- D. Sealant Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated.
- E. Mockups: Build mockups to demonstrate aesthetic effects and to set quality standards for materials and execution.
 - 1. Install glazing in mockups specified in Division 08 Section "Glazed Aluminum Curtain Walls", "Structural-Sealant-Glazed Curtain Walls," and "Aluminum-Framed Entrances and Storefronts" to match glazing systems required for Project, including glazing methods.
 - 2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 PRECONSTRUCTION TESTING

- A. Preconstruction Adhesion and Compatibility Testing: Test each glazing material type, tape sealant, gasket, glazing accessory, and glass-framing member for adhesion to and compatibility with elastomeric glazing sealants.
 - 1. Testing will not be required if data are submitted based on previous testing of current sealant products and glazing materials matching those submitted.
 - 2. Use ASTM C 1087 to determine whether priming and other specific joint-preparation techniques are required to obtain rapid, optimum adhesion of glazing sealants to glass, tape sealants, gaskets, and glazing channel substrates.
 - 3. Test no fewer than eight Samples of each type of material, including joint substrates, shims, sealant backings, secondary seals, and miscellaneous materials.
 - 4. Schedule sufficient time for testing and analyzing results to prevent delaying the Work.
 - 5. For materials failing tests, submit sealant manufacturer's written instructions for corrective measures including the use of specially formulated primers.

1.10 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials according to manufacturer's written instructions and as needed to prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
- B. Comply with insulating-glass manufacturer's written recommendations for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

1.11 FIELD CONDITIONS

- A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
 - 1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 deg F.

1.12 WARRANTY

- A. Manufacturer's Special Warranty for Coated-Glass Products: Manufacturer agrees to replace coated-glass units that deteriorate within specified warranty period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.
 - 1. Warranty Period: 10 years from date of Substantial Completion.
- B. Manufacturer's Special Warranty for Laminated Glass: Manufacturer agrees to replace laminated-glass units that deteriorate within specified warranty period. Deterioration of laminated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning laminated glass contrary to manufacturer's written instructions. Defects include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standard.
 - 1. Warranty Period: 10 years from date of Substantial Completion.
- C. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. General: Provide glazing systems capable of withstanding normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, and installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Glass Design: Glass thickness designations indicated are minimums and are for detailing only. Confirm glass thicknesses by analyzing Project loads and in-service conditions. Provide glass lites in the thickness designations indicated for various size openings, but not less than thicknesses and in strengths (annealed or heat treated) required to meet or exceed the following criteria:
1. Glass Thicknesses: Select minimum glass thicknesses to comply with ASTM E 1300, according to the following requirements:
 - a. Design Wind Loads: Determine design wind loads applicable to Project from basic wind speed indicated in miles per hour at 33 feet above grade, according to ASCE 7, "Minimum Design Loads for Buildings and Other Structures": Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.
 - b. Probability of Breakage for Vertical Glazing: 8 lites per 1000 for lites set vertically or not more than 15 degrees off vertical and under wind action.
 - 1) Load Duration: 60 seconds or less.
 - c. Maximum Lateral Deflection: For the following types of glass supported on all 4 edges, provide thickness required that limits center deflection at design wind pressure to 1/50 times the short side length or 1 inch, whichever is less.
 - 1) For monolithic-glass lites heat treated to resist wind loads.
 - 2) For insulating glass.
 - d. Minimum Glass Thickness for Exterior Lites: Not less than 6.0 mm.
 1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.

- D. Thermal and Optical Performance Properties: Provide glass with performance properties specified based on manufacturer's published test data, as determined according to procedures indicated below:
1. For monolithic-glass lites, properties are based on units with lites 6.0 mm thick.
 2. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
 3. Center-of-Glass Values: Based on using LBL-44789 WINDOW 5.0 computer program for the following methodologies:
 - a. U-Factors: NFRC 100 expressed as Btu/ sq. ft. x h x deg F.
 - b. Solar Heat Gain Coefficient: NFRC 200.
 - c. Solar Optical Properties: NFRC 300.

2.2 GLASS PRODUCTS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below, unless more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.
1. GANA Publications: GANA Laminated Division's "Laminated Glass Design Guide" and GANA's "Glazing Manual."
 2. IGMA Publication for Insulating Glass: SIGMA TM-3000, "Glazing Guidelines for Sealed Insulating Glass Units."
- B. Safety Glazing Products: Comply with testing requirements in 16 CFR 1201.
1. Subject to compliance with requirements, obtain safety glazing products permanently marked with certification label of the Safety Glazing Certification Council or another certification agency or manufacturer acceptable to authorities having jurisdiction.
 2. Where glazing units, including Kind FT glass and laminated glass, are specified in Part 2 articles for glazing lites more than 9 sq. ft. in exposed surface area of one side, provide glazing products that comply with Category II materials, for lites 9 sq. ft. or less in exposed surface area of one side, provide glazing products that comply with Category I or II materials, except for hazardous locations where Category II materials are required by 16 CFR 1201 and regulations of authorities having jurisdiction.
- C. Safety Glazing Labeling: Where safety glazing labeling is indicated, permanently mark glazing with certification label of the SGCC or the manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
- D. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.

- E. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass lites in thicknesses as needed to comply with requirements indicated.
 - 1. Minimum Glass Thickness for Exterior Lites: Not less than 6.0 mm.
- F. Strength: Where float glass is indicated, provide annealed float glass, Kind HS heat-treated float glass, or Kind FT heat-treated float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened glass is indicated, provide Kind HS heat-treated float glass or Kind FT heat-treated float glass as needed to comply with "Performance Requirements" Article. Where fully tempered glass is indicated, provide Kind FT heat-treated float glass.
- G. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
 - 1. For monolithic-glass lites, properties are based on units with lites 6.0 mm thick.
 - 2. For laminated-glass lites, properties are based on products of construction indicated.
 - 3. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
 - 4. U-Factors: Center-of-glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg F.
 - 5. Solar Heat-Gain Coefficient and Visible Transmittance: Center-of-glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
 - 6. Visible Reflectance: Center-of-glazing values, according to NFRC 300.
- H. Source Limitations for Glass: Obtain the following through one source from a single manufacturer for each glass type:
 - 1. Coated float glass.
 - 2. Laminated glass.
 - 3. Insulating glass.
- I. Source Limitations for Glass Sputter-Coated with Solar-Control Low-E Coatings: Where solar-control low-e coatings of a primary glass manufacturer that has established a certified fabricator program is specified, obtain sputter-coated solar-control low-e-coated glass in fabricated units from a manufacturer that is certified by coated-glass manufacturer.
- J. Source Limitations for Glazing Accessories: Obtain glazing accessories through one source from a single manufacturer for each product and installation method indicated.

2.3 GLASS PRODUCTS

- A. Float Glass: ASTM C 1036, Type I (transparent flat glass), Quality-Q3; Class I (clear) unless otherwise indicated.

- B. Heat-Treated Float Glass: ASTM C 1048; Type I (transparent flat glass); Quality-Q3; Class I (clear) unless otherwise indicated; of kind, and condition indicated.
 - 1. Provide Kind HS (heat-strengthened) float glass in place of annealed float glass where needed to resist thermal stresses induced by differential shading of individual glass lites and to comply with glass design requirements specified in "Performance Requirements" Article.
 - 2. For uncoated glass, comply with requirements for Condition A.
 - 3. Provide Kind FT (fully tempered) float glass in place of annealed or Kind HS (heat-strengthened) float glass where safety glass is indicated.
- C. Sputter-Coated, Low-E Clear Float Glass: ASTM C 1376, float glass with metallic-oxide or -nitride coating deposited by vacuum deposition process after manufacture and heat treatment (if any), and complying with other requirements specified.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Vitro Architectural Glass (Formerly PPG Glass); Solarban 70XL, or a comparable product by Guardian Industries Corp. or Pilkington North America.
- D. One-Way Mirror Glass: Tinted tempered float glass, ASTM C 1048; Type I (transparent flat glass); Quality-Q3; Class 2 (tinted), with pyrolytically-deposited reflective coating complying with ASTM C 1376, suitable for use with an 8:1 masking and observation light ratio.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Pilkington North America; Mirropane T.M. Transparent Mirror Glass on Optifloat Grey Tinted Glass, or equal.
 - 2. Tint Color: Grey.
 - 3. Provide Kind FT (fully tempered) float glass.
 - 4. Visible Reflectance on Coated Side: 71 percent.
 - 5. Visible Light Transmission: 11 percent.

2.4 LAMINATED GLASS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 1. Oldcastle Glass, Inc.
 - 2. Trulite Glass & Aluminum Solutions, LLC.
 - 3. Viracon, Inc.
- B. Laminated Glass: ASTM C 1172, and complying with testing requirements in 16 CFR 1201 for Category II materials, and with other requirements specified. Use materials that have a proven record of no tendency to bubble, discolor, or lose physical and mechanical properties after fabrication and installation.
 - 1. Construction: Laminate glass with polyvinyl butyral interlayer to comply with interlayer manufacturer's written recommendations.

2. Interlayer Thickness: Provide thickness not less than that indicated and as needed to comply with requirements.
 3. Interlayer Color: Clear unless otherwise indicated.
- C. Glass: Comply with applicable requirements in "Glass Products" Article as indicated by designations in "Laminated-Glass Types" Article.

2.5 INSULATING GLASS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Oldcastle Glass, Inc.
 2. Trulite Glass & Aluminum Solutions, LLC.
 3. Viracon, Inc.
- B. Insulating-Glass Units: Factory-assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190, and complying with other requirements specified.
1. Sealing System: Dual seal, with manufacturer's standard primary and secondary.
 2. Spacer Specifications: Manufacturer's standard spacer material and construction.
 3. Desiccant: Molecular sieve or silica gel, or blend of both.
- C. Glass: Comply with applicable requirements in "Glass Products" Article as indicated by designations in "Insulating-Glass Types" Article and in "Insulating-Laminated-Glass Types" Article.

2.6 GLAZING GASKETS

- A. Dense Compression Gaskets: Molded or extruded gaskets of manufacturer-recommended material, complying with standards referenced with type of elastomer indicated, and of profile and hardness required to maintain watertight seal, made from one of the following:
1. Neoprene complying with ASTM C 864.
- B. Soft Compression Gaskets: Extruded or molded, closed-cell, integral-skinned gaskets of manufacturer-recommended material; complying with ASTM C 509, Type II, black; and of profile and hardness required to maintain watertight seal:
1. Application: Use where soft compression gaskets will be compressed by inserting dense compression gaskets on opposite side of glazing or pressure applied by means of pressure-glazing stops on opposite side of glazing.

2.7 GLAZING SEALANTS

- A. General: Provide products of type indicated, complying with the following requirements:
1. Compatibility: Select glazing sealants that are compatible with one another and with other materials they will contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
 2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
 3. Sealant used inside the weatherproofing system shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
 4. Exterior Sealants VOC Content: Not more than State of Illinois requirements of authorities having jurisdiction.
 5. Colors of Exposed Glazing Sealants: As selected by Architect from manufacturer's full range.
- B. Glazing Sealant: Neutral-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 100/50, Use NT.
1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Dow Corning Corporation; 790.
 - b. GE Advanced Materials - Silicones; SilPruf LM SCS2700.
 - c. May National Associates, Inc.; Bondaflex Sil 290.
 - d. Pecora Corporation; 890.
 - e. Tremco Incorporated; Spectrem 1.
- C. Glazing Sealant: Acid-curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 25, Use NT.
1. Products: Subject to compliance with requirements, provide one of the following:
 - a. Dow Corning Corporation; 999-A.
 - b. GE Advanced Materials - Silicones; Contractors SCS1000.
 - c. May National Associates, Inc.; Sil 100 GC.
 - d. Pecora Corporation; 860.
 - e. Tremco Incorporated; Proglaze.

2.8 MISCELLANEOUS GLAZING MATERIALS

- A. General: Provide products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.

- B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
- C. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
- D. Spacers: Elastomeric blocks or continuous extrusions with a Shore, Type A durometer hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
- E. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).
- F. Cylindrical Glazing Sealant Backing: ASTM C 1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.

2.9 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
 - 1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
 - a. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine framing glazing, with Installer present, for compliance with the following:
 - 1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
 - 2. Presence and functioning of weep system.
 - 3. Minimum required face or edge clearances.
 - 4. Effective sealing between joints of glass-framing members.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.

- B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that will leave visible marks in the completed work.

3.3 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Adjust glazing channel dimensions as required by Project conditions during installation to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.
- C. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass is glass with edge damage or other imperfections that, when installed, could weaken glass and impair performance and appearance.
- D. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction sealant-substrate testing.
- E. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- F. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- G. Provide spacers for glass lites where length plus width is larger than 50 inches as follows:
 - 1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
 - 2. Provide 1/8-inch minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- H. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.
- I. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- J. Set glass lites with proper orientation so that coatings face exterior or interior as specified.

3.4 GASKET GLAZING (DRY)

- A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
- B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- E. Install gaskets so they protrude past face of glazing stops.

3.5 CLEANING AND PROTECTION

- A. Protect exterior glass from damage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels, and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations, including weld splatter. If, despite such protection, contaminating substances do come into contact with glass, remove substances immediately as recommended by glass manufacturer.
- C. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains; remove as recommended in writing by glass manufacturer.
- D. Remove and replace glass that is broken, chipped, cracked, or abraded or that is damaged from natural causes, accidents, and vandalism, during construction period.
- E. Wash glass on both exposed surfaces in each area of Project not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

3.6 MONOLITHIC GLASS SCHEDULE

A. **Glass Type GL-20: Clear fully-tempered float glass.** (Addendum No. 2)

1. **Thickness: 6.0 mm.**
2. **Provide safety glazing labeling for fully-tempered glass.**

B. **Glass Type GL-22: Clear fully-tempered glass display case doors.**

1. **Thickness: 3/8 inch.**
2. **Provide safety glazing labeling for fully-tempered glass.**

C. Glass Type G-23: Clear fully-tempered float glass.

1. Thickness: 6.0 mm.
2. Provide safety glazing labeling for fully-tempered glass.

3.7 LAMINATED GLASS SCHEDULE

A. **Glass Type G-0: Clear laminated glass with color interlayer and two plies of float glass.** (Addendum No. 2)

1. **Thickness of Each Glass Ply: 6.0 mm.**
2. **Interlayer Thickness: As recommended by manufacturer, but not less than thickness required to comply with performance requirements indicated.**
3. **Interlayer Color: As selected by Architect from manufacturer's full range.**
 - a. **Basis-of-Design Product: Subject to compliance with requirements, provide Goldray Industries, Ltd.; Colored Interlayer, or equal.**
4. **Provide safety glazing labeling.**

B. Glass Type G-03: Clear laminated glass with two plies of float glass.

1. Thickness of Each Glass Ply: 6.0 mm.
2. Interlayer Thickness: 0.060 inch.
3. Provide safety glazing labeling.

C. Glass Type G-21: Clear laminated glass with two plies of float glass.

1. Thickness of Each Glass Ply: 3.0 mm.
2. Interlayer Thickness: 0.060 inch.
3. Provide safety glazing labeling.

D. . Glass Type G-22: One-way mirror laminated glass.

1. Thickness of Each Glass Ply: 5.0 mm.
2. Interlayer Thickness: 0.060 inch.
3. Provide safety glazing labeling.

3.8 INSULATING GLASS SCHEDULE

A. ~~Glass Type G-01: Low-e coated, clear, tempered, insulating glass. (Addendum No. 2)~~

- ~~1. Overall Unit Thickness: 1 inch.~~
- ~~2. Thickness of Each Glass Lite: 6 mm.~~
- ~~3. Outdoor Lite: Fully tempered float glass.~~
- ~~4. Interspace Content: Air.~~
- ~~5. Indoor Lite: Fully tempered float glass.~~
- ~~6. Low-E Coating: Sputtered on second surface.~~
- ~~7. Winter Nighttime U Factor: 0.28 maximum.~~
- ~~8. Summer Daytime U Factor: 0.26 maximum.~~
- ~~9. Solar Heat Gain Coefficient: 0.27 maximum.~~
- ~~10. Provide safety glazing labeling for fully tempered insulating glass units.
(Addendum No. 2)~~

B. **Glass Type G-05: Low-e-coated, clear, insulating-glass.** (Addendum No. 2)

- 1. Overall Unit Thickness: 1 inch.**
- 2. Thickness of Each Glass Lite: 6 mm.**
- 3. Outdoor Lite: Clear heat-strengthened float glass unless fully tempered float glass is indicated or required.**
- 4. Interspace Content: Air.**
- 5. Indoor Lite: Clear float glass unless fully tempered float glass is indicated or required.**
- 6. Low-E Coating: Sputtered on third surface.**
- 7. Provide safety glazing labeling for fully-tempered insulating glass units.**

C. **Glass Type G-05A: Low-e-coated, clear, insulating-glass with post-applied reflective film.** (Addendum No. 2)

- 1. Overall Unit Thickness: 1 inch.**
- 2. Thickness of Each Glass Lite: 6 mm.**
- 3. Outdoor Lite: Clear heat-strengthened float glass unless fully tempered float glass is indicated or required.**
- 4. Post-Applied Reflective Film: First surface.**
 - a. Basis-of-Design Product: Subject to compliance with requirements, provide 3M; S20 Silver Security, or equal.**
- 5. Interspace Content: Air.**
- 6. Indoor Lite: Clear float glass unless fully tempered float glass is indicated or required.**
- 7. Low-E Coating: Sputtered on third surface.**
- 8. Provide safety glazing labeling for fully-tempered insulating glass units.**

D. **Glass Type G-06: Low-e-coated clear insulating glass unit, with silk-screened ceramic enamel frit.** (Addendum No. 2)

- 1. Overall Unit Thickness: 1 inch.**
- 2. Thickness of Each Glass Lite: 6 mm.**

3. **Outdoor Lite: Clear heat-strengthened float glass unless fully tempered float glass is indicated or required.**
 4. **Outdoor Lite Ceramic-Frit-Coating Location: Second Surface.**
 - a. **Pattern and Color: CUSTOM pattern and colors matching Architect's sample.**
 5. **Interspace Content: Air.**
 6. **Indoor Lite: Clear float glass unless fully tempered float glass is indicated or required.**
 7. **Low-E Coating: Sputtered on third surface.**
 8. **Provide safety glazing labeling for fully-tempered insulating glass units.**
- E. Glass Type G-07: Clear, insulating glass unit, with silk-screened ceramic enamel frit and acid etched.** (Addendum No. 2)
1. **Overall Unit Thickness: 1 inch.**
 2. **Thickness of Each Glass Lite: 6 mm.**
 3. **Outdoor Lite: Clear heat-strengthened float glass unless fully tempered float glass is indicated or required.**
 4. **Outdoor Lite Ceramic-Frit-Coating Location: Second Surface.**
 - a. **Pattern and Color: CUSTOM pattern and colors matching Architect's sample.**
 5. **Interspace Content: Air.**
 6. **Indoor Lite: Clear float glass unless fully tempered float glass is indicated or required.**
 7. **Acid Etching Location: Third surface.**
 - a. **Basis-of-Design Product: Subject to compliance with requirements, provide Walker Glass Co. Ltd.; Walker Textures; Velour, or equal.**
 8. **Provide safety glazing labeling for fully-tempered insulating glass units.**
- F. Glass Type G-08: Clear, insulating glass unit with acid etch.** (Addendum No. 2)
1. **Overall Unit Thickness: 1 inch.**
 2. **Thickness of Each Glass Lite: 6 mm.**
 3. **Outdoor Lite: Clear heat-strengthened float glass unless fully tempered float glass is indicated or required.**
 4. **Interspace Content: Air.**
 5. **Indoor Lite: Clear float glass unless fully tempered float glass is indicated or required.**
 6. **Acid Etching Location: Third surface.**
 - a. **Basis-of-Design Product: Subject to compliance with requirements, provide Walker Glass Co. Ltd.; Walker Textures; Velour, or equal.**

7. **Provide safety glazing labeling for fully-tempered insulating glass units.**

3.9 INSULATING-LAMINATED GLASS SCHEDULE (Addendum No. 2)

A. Glass Type G-01: Ceramic-frit coated, low-e coated, clear, insulating, laminated vision glass.

1. **Overall Unit Thickness: 1-5/16 inch.**
2. **Thickness of Outdoor Lite: 6 mm.**
3. **Outdoor Lite: Clear, heat-strengthened float glass.**
4. **Outdoor Lite Ceramic-Frit-Coating Location: Second Surface.**
 - a. **Pattern and Color: CUSTOM pattern and colors matching Architect's sample.**
5. **Interspace Content: Air.**
6. **Indoor Lite: Clear laminated glass with two plies of heat strengthened float glass.**
 - a. **Thickness of Indoor Lite: 9/16 inch.**
 - b. **Minimum Thickness of Each Glass Ply: 6 mm.**
 - c. **Interlayer thickness: 0.060-inch-thick PVB.**
7. **Low-E Coating: Sputtered on third surface.**
8. **Provide safety glazing labeling for fully-tempered insulating glass units.**

B. Glass Type G-02: Ceramic-frit coated and etched, clear, insulating, laminated vision glass unit. (Addendum No. 2)

1. **Overall Unit Thickness: 1-5/16 inch.**
2. **Thickness of Outdoor Glass Lite: 6 mm.**
3. **Outdoor Lite: Clear heat-strengthened float glass.**
4. **Outdoor Lite Ceramic-Frit-Coating Location: Second Surface.**
 - a. **Pattern and Color: CUSTOM pattern and colors matching Architect's sample.**
5. **Interspace Content: Air.**
6. **Indoor Lite: Clear laminated glass with two plies of heat-strengthened float glass.**
 - a. **Thickness of Indoor Lite: 9/16 inch.**
 - b. **Minimum Thickness of Each Glass Ply: 6 mm.**
 - c. **Interlayer thickness: 0.060-inch-thick PVB.**
7. **Acid Etching Location: Third surface.**
 - a. **Basis-of-Design Product: Subject to compliance with requirements, provide Walker Glass Co. Ltd.; Walker Textures; Velour, or equal.**
8. **Provide safety glazing labeling for fully-tempered insulating glass units.**

- C. **Glass Type GL-4: Low-E-Coated, Clear, Insulating Laminated Glass:** (Addendum No. 2)
1. **Overall Unit Thickness: 1-5/16 inch.**
 2. **Thickness of Outdoor Lite: 6 mm.**
 3. **Outdoor Lite: Clear heat-strengthened float glass.**
 4. **Interspace Content: Air.**
 5. **Indoor Lite: Clear laminated glass with two plies of heat-strengthened float glass.**
 - a. **Thickness of Indoor Lite: 9/16 inch.**
 - b. **Minimum Thickness of Each Glass Ply: 6 mm.**
 - c. **Interlayer Thickness: 0.060-inch-thick PVB.**
 6. **Low-E Coating: No. 3 surface.**
 7. **Provide safety glazing labeling.**
- D. **Glass Type GL-9: Low-E-Coated, Clear, Insulating Laminated Glass:** (Addendum No. 2)
1. **Overall Unit Thickness: 1-3/4 inch.**
 2. **Thickness of Outdoor Lite: 6 mm.**
 3. **Outdoor Lite: Clear laminated, glass with two plies of heat-strengthened float glass.**
 - a. **Thickness of Outdoor Lite: 11/16 inch.**
 - b. **Minimum Thickness of Each Glass Ply: 8 mm.**
 - c. **Interlayer Thickness: 0.060-inch-thick PVB.**
 4. **Interspace Content: Air.**
 5. **Indoor Lite: Clear laminated glass with two plies of heat-strengthened float glass.**
 - a. **Thickness of Indoor Lite: 9/16 inch.**
 - b. **Minimum Thickness of Each Glass Ply: 6 mm.**
 - c. **Interlayer Thickness: 0.060-inch-thick PVB.**
 6. **Low-E Coating: No. 3 surface.**
 7. **Provide safety glazing labeling.**

END OF SECTION 088000

SECTION 221429 - SUMP PUMPS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Submersible sump pumps.
 - 2. Sump-pump basins and basin covers.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.

1.4 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For pumps and controls, to include in operation and maintenance manuals.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Retain shipping flange protective covers and protective coatings during storage.
- B. Protect bearings and couplings against damage.
- C. Comply with manufacturer's written instructions for handling.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. UL Compliance: Comply with UL 778 for motor-operated water pumps.

2.2 SUBMERSIBLE SUMP PUMPS

A. Submersible, Fixed-Position, Single-Seal Sump Pumps **SP-1**:

1. Acceptable Manufacturers:
 - a. Zoeller.
 - b. Weil.
 - c. Hydromatic.
 - d. Liberty.
 - e. Sulzer.
2. Description: Factory-assembled and -tested sump-pump unit.
3. Pump Type: Submersible, end-suction, single-stage, close-coupled, centrifugal sump pump.
4. Pump Casing: Cast iron, legs that elevate pump to permit flow into impeller, and vertical discharge for piping connection.
5. Impeller: Statically and dynamically balanced, bronze.
6. Pump and Motor Shaft: Carbon seal, with factory-sealed, grease-lubricated ball bearings.
7. Seal: Carbon and ceramic.
8. Motor: Hermetically sealed, capacitor-start type; with built-in overload protection; lifting eye or lug; and three-conductor, waterproof power cable of length required and with grounding plug and cable-sealing assembly for connection at pump.
 - a. Motor Housing Fluid: Oil or air.
9. Capacity: As scheduled on drawings.
10. Controls:
 - a. Enclosure: NEMA 250, Type 4X.
 - b. Switch Type: Pedestal-mounted float switch with float rods and rod buttons.
 - c. Automatic Alternator: Start pumps on successive cycles and start multiple pumps if one cannot handle load.
 - d. Float Guides: Pipe or other restraint for floats and rods in basins of depth greater than 60 inches.
 - e. High-Water Alarm: Float switch to be wired to control panel.
11. Control-Interface Features:
 - a. Remote Alarm Contacts: For remote alarm interface.
 - b. Building Automation System Interface: Auxiliary contacts in pump controls for interface to building automation system and capable of providing the following:
 - 1) On-off status of pumps.
 - 2) Alarm status.

B. Submersible, Fixed-Position, Single-Seal Sump Pumps **EPP-1, EPP-2**:

1. Acceptable Manufacturers:
 - a. Zoeller.
 - b. Weil.

- c. Hydromatic.
- d. Liberty.
- e. Sulzer.
2. Description: Factory-assembled and -tested sump-pump unit.
3. Pump Type: Submersible, end-suction, single-stage, close-coupled, centrifugal sump pump.
4. Pump Casing: Cast iron, legs that elevate pump to permit flow into impeller, and vertical discharge for piping connection.
5. Impeller: Statically and dynamically balanced, bronze.
6. Pump and Motor Shaft: Carbon seal, with factory-sealed, grease-lubricated ball bearings.
7. Seal: Carbon and ceramic.
8. Motor: Hermetically sealed, capacitor-start type; with built-in overload protection; lifting eye or lug; and three-conductor, waterproof power cable of length required and with grounding plug and cable-sealing assembly for connection at pump.
 - a. Motor Housing Fluid: Oil or air.
9. Capacity: As scheduled on drawings.
10. Controls: Automatic float switch.
11. High Water Alarm: float switch with electric bell and remote contracts for remote alarm interface.

2.3 SUMP-PUMP BASINS AND BASIN COVERS

- A. Basins: Factory-fabricated, watertight, cylindrical, basin sump with top flange and sidewall openings for pipe connections.
 1. Material: Fiberglass.
 2. Reinforcement: Mounting plates for pumps, fittings, and accessories.
 3. Anchor Flange: Same material as or compatible with basin sump, cast in or attached to sump, in location and of size required to anchor basin in concrete slab.
- B. Basin Covers: Fabricate metal cover with openings having gaskets, seals, and bushings; for access to pumps, pump shafts, control rods, discharge piping, vent connections, and power cables.
 1. Reinforcement: Steel, capable of supporting foot traffic for basins installed in foot-traffic areas.
- C. Capacities and Characteristics: Refer to schedule on drawings.

PART 3 - EXECUTION

3.1 EARTHWORK

- A. Excavation and filling are specified in Section 312000 "Earth Moving."

3.2 EXAMINATION

- A. Examine roughing-in for plumbing piping to verify actual locations of storm drainage piping connections before sump pump installation.

3.3 INSTALLATION

- A. Pump Installation Standards: Comply with HI 1.4 for installation of sump pumps.

3.4 CONNECTIONS

- A. Comply with requirements for piping specified in Section 221413 "Facility Storm Drainage Piping." Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Where installing piping adjacent to equipment, allow space for service and maintenance.

3.5 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to test, inspect, and adjust components, assemblies, and equipment installations, including connections.
- B. Perform the following tests and inspections:
 - 1. Perform each visual and mechanical inspection.
 - 2. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
 - 3. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
 - 4. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
- C. Pumps and controls will be considered defective if they do not pass tests and inspections.
- D. Prepare test and inspection reports.

3.6 STARTUP SERVICE

- A. Engage a factory-authorized service representative to perform startup service.
 - 1. Complete installation and startup checks according to manufacturer's written instructions.

3.7 ADJUSTING

- A. Adjust pumps to function smoothly, and lubricate as recommended by manufacturer.
- B. Adjust control set points.

3.8 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain controls and pumps.

END OF SECTION 221429

SECTION 224200 - COMMERCIAL PLUMBING FIXTURES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Water closets.
 - 2. Urinals.
 - 3. Lavatories.
 - 4. Sinks.
 - 5. Wash fountains.
 - 6. Electric water coolers.

1.3 DEFINITIONS

- A. FRP: Fiberglass-reinforced plastic.
- B. PMMA: Polymethyl methacrylate, also known as "acrylic."
- C. Effective Flush Volume: Average of two reduced flushes and one full flush per fixture.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for lavatories.
 - 2. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
- B. Shop Drawings: Include diagrams for power, signal, and control wiring.

1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Counter cutout templates for mounting of counter-mounted plumbing fixtures.
- B. Sample Warranty: For special warranty.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For plumbing fixtures and faucets to include in emergency, operation, and operation and maintenance manuals.

PART 2 - PRODUCTS

2.1 WALL-MOUNTED WATER CLOSETS **WC-2**

- A. Bowl:
1. Acceptable Manufacturers:
 - a. American Standard, Model AFWall 2257.101.
 - b. Kohler.
 - c. Zurn.
 - d. Sloan.
 - e. Mansfield.
 2. ASME A112.19.2; wall hung, siphon jet, 1.1-1.6 gallons per flush range, white vitreous china closet bowl with elongated rim, 1-1/2 inch top spud.
- B. Exposed Sensor Operated Flush Valve:
1. Acceptable Manufacturers:
 - a. Sloan, Model G2 8111-1.6
 2. ASME A112.18.1; 1-1/2 top spud, exposed, chrome plated, battery powered, sensor operated, 1.6 gallon flush, escutcheon, integral screwdriver stop and vacuum breaker.
- C. Seat:
1. Acceptable Manufacturers:
 - a. Bemis, Model 2155-SSCT.
 - b. Olsonite.
 - c. Church.
 2. Solid white plastic, open front, extended back, self sustaining hinge, stainless steel posts.
- D. Water Closet Carrier:
1. Acceptable Manufacturers:
 - a. Mifab.
 - b. J.R. Smith.
 - c. Zurn.
 - d. Watts.
 - e. Wade.
 - f. Josam.
 2. ASME A112.6.1.M; Commercial closet carrier; cast iron frame, lugs for wall attachment, threaded fixture studs with nuts and washers. Include additional extension coupling, faceplate, and feet for installation in wide chase space.

2.2 WALL-MOUNTED WATER CLOSETS **WC-2A**

- A. Same as WC-2, but mounted at ADA height.

2.3 WALL HUNG URINALS **UR-1**

A. Urinal:

1. Acceptable Manufacturers:

- a. Sloan, Model WEUS-1000.1401.
- b. American Standard.
- c. Kohler.
- d. Sloan.
- e. Zurn.

2. ASME A112.19.2; vitreous china, wall hung, flushing rim, 3/4" top spud, 0.125 gallon flush, integral trap.

3. Exposed Sensor Operated Flush Valve: ASME A112.18.1, 3/4" top spud, exposed chrome plated, battery powered, sensor operated, 0.125 gallon flush, escutcheon, integral screwdriver stop and vacuum breaker.

B. Wall Mounted Carrier:

1. Acceptable Manufacturers:

- a. Mifab.
- b. J.R. Smith.
- c. Zurn.
- d. Wade.
- e. Watts.
- f. Josam.

2. ASME 112.6.1; cast iron and steel frame with tubular legs, lugs for floor attachment, threaded fixture studs for fixture hanger.

2.4 WALL HUNG URINALS **UR-1A**

- A. Same as UR-1, but installed at ADA height.

2.5 LAVATORIES **LAV-2A**

A. Vitreous China Wall Hung Basin:

1. Acceptable Manufacturers:

- a. American Standard Model Lucerne 0355.012.
- b. Kohler.
- c. Zurn.
- d. Sloan.
- e. Mansfield.

2. ASME A112.19.2; vitreous china wall hung lavatory, 20" x 18" minimum rectangular basin with splash lip, 5" high back, drillings on 4 inch centers, and front overflow.

B. Supply fitting:

1. Acceptable Manufacturers:
 - a. Sloan, Model EBF-650.
 - b. Chicago Faucets.
 - c. Zurn.
 - d. Symmons.
2. ASME A112.18.1M; deck mounted, chrome plated brass supply, 4-1/2" minimum spout, battery powered infrared sensor controlled, 0.5 GPM, with 4" centerset mounting.

C. Accessories:

1. Chrome plated 17 gauge brass P-trap with cleanout and arm with escutcheon.
2. Grid drain with overflow.
3. Chrome plated all brass angle stops with quarter turn brass stem and loose key handles.
4. Chrome plated rigid supplies.
5. Insulate drain and supply piping with Truebro LavGuard or equal.
6. Provide point of use thermostatic mixing valve type TMV-1 at each lavatory.

D. Lavatory Carrier:

1. Acceptable Manufacturers:
 - a. Mifab.
 - b. J.R. Smith.
 - c. Zurn.
 - d. Watts.
 - e. Wade.
 - f. Josam.
2. ASME A112.6.1; cast iron steel frame with tubular legs, lugs for floor attachment, threaded fixture studs for fixture hanger.

2.6 SINK S-1

A. Single compartment bowl:

1. Acceptable Manufacturers:
 - a. Elkay, Model LRAD191960.
 - b. Just.
2. ASME A112.19.3; 19.5"L x 19" W x 6" D outside dimensions, 18 gauge type 304 stainless steel. Self-rimming and undercoated, with ledge back drilled for trim.

B. Trim:

1. Acceptable Manufacturers:
 - a. Chicago Faucets, Model 1100-G2E35-317AB.
 - b. Moen.

- c. Zurn.
 - d. Symmons.
 - e. T&S Brass.
2. ASME A112.18.1; chrome plated brass supply with 5” swing spout, water economy aerator with maximum 1.5 gpm flow rate, with indexed wristblade lever handles on 8” centers.
- C. Accessories:
1. 3-1/2” basket strainer with offset tailpiece.
 2. Chrome plated 17 gauge P-trap, arm and escutcheon.
 3. Chrome plated all brass angle stops with quarter turn brass stem and loose key handles.
 4. Chrome plated rigid supplies.
 5. Furnish with thermostatic mixing valve TMV-1.
 6. Insulate drain and supply piping with Truebro LavGuard or equal.

2.7 SINK **S-2**

- A. Double compartment bowl:
1. Acceptable Manufacturers:
 - a. Elkay, Model SS8242.
 - b. Just.
 2. ASME A112.19.3; 45”L x 27.5” W x 14” D outside dimensions, 14 gauge type 304 stainless steel, with ledge back drilled for trim. Square corner welded construction supported on 16 gauge tubular legs.
- B. Trim:
1. Acceptable Manufacturers:
 - a. Chicago Faucets, Model 540-LDL12E1WXFABCP.
 - b. Moen.
 - c. Zurn.
 - d. Symmons.
 - e. T&S Brass.
 2. ASME A112.18.1; wall mounted, chrome plated brass supply with 12” swing spout, aerator, with lever handles on 8” centers.
- C. Accessories:
1. 3-1/2” basket strainers.
 2. Chrome plated 17 gauge P-trap, arm and escutcheon, and continuous waste.
 3. Chrome plated all brass angle stops with quarter turn brass stem and loose key handles.
 4. Chrome plated rigid supplies.

2.8 JANITOR SINK **JS-1**

- A. Basin:

1. Acceptable Manufacturers:
 - a. Fiat, Model TSB-3000.
 - b. Acorn.
 - c. Florestone.
 - d. Creative Industries Terrazzo Products, Inc.
 2. One piece precast square terrazzo mop basin, 24" x 24", 12" high sides, 6" drop front, stainless steel threshold, removable stainless steel strainer, and stainless steel wall guards.
- B. Trim:
1. Acceptable Manufacturers:
 - a. Chicago Faucets, model 897-RCF.
 - b. Moen.
 - c. Zurn.
 - d. Symmons.
 - e. T&S Brass.
 2. ASME A112.18.1 exposed wall type supply with lever handles, spout wall brace, vacuum breaker, hose end spout, and escutcheon plates.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine roughing-in of water-supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before plumbing-fixture installation.
- B. Examine walls, floors, cabinets, and counters for suitable conditions where fixtures will be installed.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install plumbing fixtures level and plumb in accordance with roughing-in drawings.
- B. Install floor-mounted water closets on closet flange attachments to drainage piping.
- C. Install counter-mounting fixtures in and attached to casework.
- D. Install pedestal lavatories on pedestals and secured to wood blocking in wall.

- E. Install water-supply piping with stop on each supply to each fixture to be connected to water distribution piping. Attach supplies to supports or substrate within pipe spaces behind fixtures. Install stops in locations where they can be easily reached for operation.
 - 1. Use ball or gate valves if supply stops are not specified with fixture. Comply with valve requirements specified in Section 220523.12 "Ball Valves for Plumbing Piping" and Section 220523.15 "Gate Valves for Plumbing Piping."
 - F. Install tanks for accessible, tank-type water closets with lever handle mounted on wide side of compartment.
 - G. Install toilet seats on water closets.
 - H. Install faucet flow-control fittings with specified flow rates and patterns in faucet spouts if faucets are not available with required rates and patterns. Include adapters if required.
 - I. Install shower flow-control fittings with specified maximum flow rates in shower arms.
 - J. Install traps on fixture outlets.
 - 1. Omit trap on fixtures with integral traps.
 - 2. Omit trap on indirect wastes unless otherwise indicated.
 - K. Install disposer in outlet of each sink indicated to have a disposer. Install switch where indicated or in wall adjacent to sink if location is not indicated.
 - L. Set shower receptors in leveling bed of cement grout.
 - M. Install protective shielding pipe covers and enclosures on exposed supplies and waste piping of accessible lavatories and sinks.
 - N. Install wall flanges or escutcheons at piping wall penetrations in exposed, finished locations. Use deep-pattern escutcheons if required to conceal protruding fittings. Comply with escutcheon requirements specified in Section 220518 "Escutcheons for Plumbing Piping."
 - O. Seal joints between plumbing fixtures, counters, floors, and walls using sanitary-type, one-part, mildew-resistant silicone sealant. Match sealant color to fixture color. Comply with sealant requirements specified in Section 079200 "Joint Sealants."
- 3.3 ADJUSTING
- A. Operate and adjust plumbing fixtures and controls. Replace damaged and malfunctioning fixtures, fittings, and controls.
 - B. Adjust water pressure at faucets to produce proper flow.
- 3.4 CLEANING AND PROTECTION
- A. After completing installation of plumbing fixtures, inspect and repair damaged finishes.

- B. Clean plumbing fixtures, faucets, and other fittings with manufacturers' recommended cleaning methods and materials.
- C. Provide protective covering for installed plumbing fixtures and fittings.
- D. Do not allow use of plumbing fixtures for temporary facilities unless approved in writing by Owner.

END OF SECTION 224200

SECTION 230713 - DUCT INSULATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes insulating the following duct services:
 - 1. Indoor, concealed supply and outdoor air.
 - 2. Indoor, exposed supply and outdoor air.
 - 3. Indoor, concealed return located in unconditioned space.
 - 4. Indoor, exposed exhaust between isolation damper and penetration of building exterior.
 - 5. Outdoor, exposed supply and return.
- B. Related Sections:
 - 1. Section 230716 "HVAC Equipment Insulation."
 - 2. Section 230719 "HVAC Piping Insulation."

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include thermal conductivity, water-vapor permeance thickness, and jackets (both factory- and field-applied if any).
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
 - 1. Detail application of protective shields, saddles, and inserts at hangers for each type of insulation and hanger.
 - 2. Detail insulation application at elbows, fittings, dampers, specialties and flanges for each type of insulation.
 - 3. Detail application of field-applied jackets.
 - 4. Detail application at linkages of control devices.
- C. Samples: For each type of insulation and jacket indicated. Identify each Sample, describing product and intended use. Sample sizes are as follows:
 - 1. Sheet Form Insulation Materials: 12 inches square.
 - 2. Sheet Jacket Materials: 12 inches square.

3. Manufacturer's Color Charts: For products where color is specified, show the full range of colors available for each type of finish material.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified Installer.
- B. Material Test Reports: From a qualified testing agency acceptable to authorities having jurisdiction indicating, interpreting, and certifying test results for compliance of insulation materials, sealers, attachments, cements, and jackets, with requirements indicated. Include dates of tests and test methods employed.
- C. Field quality-control reports.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Skilled mechanics who have successfully completed an apprenticeship program or another craft training program certified by the Department of Labor, Bureau of Apprenticeship and Training.
- B. Surface-Burning Characteristics: For insulation and related materials, as determined by testing identical products according to ASTM E 84, by a testing agency acceptable to authorities having jurisdiction. Factory label insulation and jacket materials and adhesive, mastic, tapes, and cement material containers, with appropriate markings of applicable testing agency.
 1. Insulation Installed Indoors: Flame-spread index of 25 or less, and smoke-developed index of 50 or less.
 2. Insulation Installed Outdoors: Flame-spread index of 75 or less, and smoke-developed index of 150 or less.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Packaging: Insulation material containers shall be marked by manufacturer with appropriate ASTM standard designation, type and grade, and maximum use temperature.

1.7 COORDINATION

- A. Coordinate sizes and locations of supports, hangers, and insulation shields specified in Section 230529 "Hangers and Supports for HVAC Piping and Equipment."
- B. Coordinate clearance requirements with duct Installer for duct insulation application. Before preparing ductwork Shop Drawings, establish and maintain clearance requirements for installation of insulation and field-applied jackets and finishes and for space required for maintenance.
- C. Coordinate installation and testing of heat tracing.

1.8 SCHEDULING

- A. Schedule insulation application after pressure testing systems and, where required, after installing and testing heat tracing. Insulation application may begin on segments that have satisfactory test results.
- B. Complete installation and concealment of plastic materials as rapidly as possible in each area of construction.

PART 2 - PRODUCTS

2.1 INSULATION MATERIALS

- A. Comply with requirements in "Duct Insulation Schedule, General," "Indoor Duct and Plenum Insulation Schedule," and "Aboveground, Outdoor Duct and Plenum Insulation Schedule" articles for where insulating materials shall be applied.
- B. Products shall not contain asbestos, lead, mercury, or mercury compounds.
- C. Products that come in contact with stainless steel shall have a leachable chloride content of less than 50 ppm when tested according to ASTM C 871.
- D. Insulation materials for use on austenitic stainless steel shall be qualified as acceptable according to ASTM C 795.
- E. Foam insulation materials shall not use CFC or HCFC blowing agents in the manufacturing process.
- F. Flexible Elastomeric Insulation: Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type II for sheet materials.
 - 1. Manufacturers:
 - a. Armaflex USA, Inc.
 - b. Armacell, LLC
 - c. K Flex USA
- G. Mineral-Fiber Blanket Insulation: Mineral or glass fibers bonded with a thermosetting resin. Comply with ASTM C 553, Type II and ASTM C 1290, Type I.
 - 1. Manufacturers:
 - a. CertainTeed Corporation
 - b. Johns Manville
 - c. Knauf Insulation
 - d. Manson Insulation, Inc.
 - e. Owens Corning

- H. Mineral-Fiber Board Insulation: Mineral or glass fibers bonded with a thermosetting resin. Comply with ASTM C 612, Type IA or Type IB. For duct and plenum applications, provide insulation without factory-applied jacket.

1. Manufacturers:
 - a. CertainTeed Corporation
 - b. Johns Manville
 - c. Knauf Insulation
 - d. Manson Insulation, Inc.
 - e. Owens Corning

2.2 ADHESIVES

- A. Materials shall be compatible with insulation materials, jackets, and substrates and for bonding insulation to itself and to surfaces to be insulated unless otherwise indicated.
- B. Flexible Elastomeric and Polyolefin Adhesive: Comply with MIL-A-24179A, Type II, Class I.

1. Manufacturers:
 - a. Armaflex USA, Inc.
 - b. Armacell, LLC
 - c. Foster Brand; H.B. Fuller
 - d. K Flex USA

- C. Mineral-Fiber Adhesive: Comply with MIL-A-3316C, Class 2, Grade A.

1. Manufacturers:
 - a. Childers Brand
 - b. Eagle Bridges
 - c. Foster Brand; H.B. Fuller
 - d. Mon-Eco Industries, Inc.

- D. ASJ Adhesive, and FSK Jacket Adhesive: Comply with MIL-A-3316C, Class 2, Grade A for bonding insulation jacket lap seams and joints.

1. Manufacturers:
 - a. Childers Brand
 - b. Eagle Bridges
 - c. Foster Brand; H.B. Fuller
 - d. Mon-Eco Industries, Inc.

2.3 MASTICS

- A. Materials shall be compatible with insulation materials, jackets, and substrates; comply with MIL-PRF-19565C, Type II.

B. Vapor-Barrier Mastic: Water based; suitable for indoor use on below ambient services.

1. Manufacturers:

- a. Childers Brand
- b. Foster Brand; H.B. Fuller
- c. Knauf Insulation
- d. Vimasco Corporation

2. Water-Vapor Permeance: ASTM E 96/E 96M, Procedure B, 0.013 perm at 43-mildry film thickness.

3. Service Temperature Range: Minus 20 to plus 180 deg F.

4. Solids Content: ASTM D 1644, 58 percent by volume and 70 percent by weight.

5. Color: White.

2.4 LAGGING ADHESIVES

A. Description: Comply with MIL-A-3316C, Class I, Grade A and shall be compatible with insulation materials, jackets, and substrates.

1. Manufacturers:

- a. Childers Brand
- b. Foster Brand; H.B. Fuller
- c. Vimasco Corporation

2. Fire-resistant, water-based lagging adhesive and coating for use indoors to adhere fire-resistant lagging cloths over duct insulation.

3. Service Temperature Range: 0 to plus 180 deg F.

4. Color: White.

2.5 SEALANTS

A. ASJ Flashing Sealants, and Vinyl and PVC Jacket Flashing Sealants:

1. Manufacturers:

- a. Childers Brand
- b. Foster Brand; H.B. Fuller

2. Materials shall be compatible with insulation materials, jackets, and substrates.

3. Fire- and water-resistant, flexible, elastomeric sealant.

4. Service Temperature Range: Minus 40 to plus 250 deg F.

5. Color: White.

2.6 FIELD-APPLIED FABRIC-REINFORCING MESH

A. Woven Glass-Fiber Fabric: Approximately 6 oz./sq. yd. with a thread count of 5 strands by 5 strands/sq. in. for covering ducts.

1. Manufacturers:
 - a. Childers Brand
 - b. Foster Brand; H.B. Fuller

B. Woven Polyester Fabric: Approximately 1 oz./sq. yd. with a thread count of 10 strands by 10 strands/sq. in., in a Leno weave, for ducts.

1. Manufacturers:
 - a. Foster Brand; H.B. Fuller
 - b. Vimasco Corporation

2.7 FIELD-APPLIED CLOTHS

A. Woven Glass-Fiber Fabric: Comply with MIL-C-20079H, Type I, plain weave, and pre sized a minimum of 8 oz./sq. yd.

1. Manufacturers:
 - a. Alpha Associates, Inc.
 - b. Foster Brand; H.B. Fuller

2.8 FIELD-APPLIED JACKETS

A. Field-applied jackets shall comply with ASTM C 921, Type I, unless otherwise indicated.

B. FSK Jacket: Aluminum-foil-face, fiberglass-reinforced scrim with kraft-paper backing.

C. Metal Jacket:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. ITW Insulation Systems; Illinois Tool Works, Inc.
 - b. RPR Products, Inc.
2. Aluminum Jacket: Comply with ASTM B209, Alloy 3003, 3005, 3105, or 5005, Temper H-14.
 - a. Factory cut and rolled to size.
 - b. Finish and thickness are indicated in field-applied jacket schedules.
 - c. Moisture Barrier for Outdoor Applications: 3-mil-thick, heat-bonded polyethylene and kraft paper.

D. Self-Adhesive Outdoor Jacket: 60-mil-thick, laminated vapor barrier and waterproofing membrane for installation over insulation located aboveground outdoors; consisting of a rubberized bituminous resin on a cross-laminated polyethylene film covered with stucco-embossed aluminum-foil facing.

1. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - a. Polyguard Products, Inc.

2.9 TAPES

- A. ASJ Tape: White vapor-retarder tape matching factory-applied jacket with acrylic adhesive, complying with ASTM C 1136.

1. Manufacturers:
 - a. Avery Dennison Corporation
 - b. Compac Corporation
 - c. Ideal Tape Co., Inc.
 - d. Knauf Insulation
 - e. Venture Tape
2. Width: 3 inches.
3. Thickness: 11.5 mils.
4. Adhesion: 90 ounces force/inch in width.
5. Elongation: 2 percent.
6. Tensile Strength: 40 lbf/inch in width.
7. ASJ Tape Disks and Squares: Precut disks or squares of ASJ tape.

- B. FSK Tape: Foil-face, vapor-retarder tape matching factory-applied jacket with acrylic adhesive; complying with ASTM C 1136.

1. Manufacturers:
 - a. Avery Dennison Corporation
 - b. Compac Corporation
 - c. Ideal Tape Co., Inc.
 - d. Knauf Insulation
 - e. Venture Tape
2. Width: 3 inches.
3. Thickness: 6.5 mils.
4. Adhesion: 90 ounces force/inch in width.
5. Elongation: 2 percent.
6. Tensile Strength: 40 lbf/inch in width.
7. FSK Tape Disks and Squares: Precut disks or squares of FSK tape.

2.10 SECUREMENTS

- A. Bands:

1. Manufacturers:
 - a. ITW Insulation Systems

- b. RPR Products, Inc.
 - 2. Stainless Steel: ASTM A 167 or ASTM A 240/A 240M, Type 304; 0.015 inch thick, 1/2 inchwide with wing seal.
 - 3. Aluminum: ASTM B 209, Alloy 3003, 3005, 3105, or 5005; Temper H-14, 0.020 inch thick, 1/2 inchwide with wing seal.
 - 4. Springs: Twin spring set constructed of stainless steel with ends flat and slotted to accept metal bands. Spring size determined by manufacturer for application.

- B. Insulation Pins and Hangers:
 - 1. Capacitor-Discharge-Weld Pins: Copper- or zinc-coated steel pin, fully annealed for capacitor-discharge welding, 0.135-inch- diameter shank, length to suit depth of insulation indicated.
 - a. Manufacturers:
 - 1) AGM Industries, Inc.
 - 2) Gemco
 - 3) Harcast, Inc.
 - 4) Midwest Fasteners
 - 5) Nelson Stud Welding

 - 2. Cupped-Head, Capacitor-Discharge-Weld Pins: Copper- or zinc-coated steel pin, fully annealed for capacitor-discharge welding, 0.106-inch-diameter shank, length to suit depth of insulation indicated with integral 1-1/2-inch galvanized carbon-steel washer.
 - a. Manufacturers:
 - 1) AGM Industries, Inc.
 - 2) Gemco
 - 3) Harcast, Inc.
 - 4) Midwest Fasteners
 - 5) Nelson Stud Welding

 - 3. Metal, Adhesively Attached, Perforated-Base Insulation Hangers: Baseplate welded to projecting spindle that is capable of holding insulation, of thickness indicated, securely in position indicated when self-locking washer is in place. Comply with the following requirements:
 - a. Manufacturers:
 - 1) AGM Industries, Inc.
 - 2) Gemco
 - 3) Midwest Fasteners

 - b. Baseplate: Perforated, galvanized carbon-steel sheet, 0.030 inch thick by 2 inches square.
 - c. Spindle: Copper- or zinc-coated, low-carbon steel, fully annealed, 0.106-inch-diameter shank, length to suit depth of insulation indicated.

- d. Adhesive: Recommended by hanger manufacturer. Product with demonstrated capability to bond insulation hanger securely to substrates indicated without damaging insulation, hangers, and substrates.
- C. Staples: Outward-clinching insulation staples, nominal 3/4-inch-wide, stainless steel or Monel.
- D. Wire: 0.080-inch nickel-copper alloy.
 - 1. Manufacturers:
 - a. C&F Wire

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of insulation application.
 - 1. Verify that systems to be insulated have been tested and are free of defects.
 - 2. Verify that surfaces to be insulated are clean and dry.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Surface Preparation: Clean and dry surfaces to receive insulation. Remove materials that will adversely affect insulation application.

3.3 GENERAL INSTALLATION REQUIREMENTS

- A. Install insulation materials, accessories, and finishes with smooth, straight, and even surfaces; free of voids throughout the length of ducts and fittings.
- B. Install insulation materials, vapor barriers or retarders, jackets, and thicknesses required for each item of duct system as specified in insulation system schedules.
- C. Install accessories compatible with insulation materials and suitable for the service. Install accessories that do not corrode, soften, or otherwise attack insulation or jacket in either wet or dry state.
- D. Install insulation with longitudinal seams at top and bottom of horizontal runs.
- E. Install multiple layers of insulation with longitudinal and end seams staggered.
- F. Keep insulation materials dry during application and finishing.

- G. Install insulation with tight longitudinal seams and end joints. Bond seams and joints with adhesive recommended by insulation material manufacturer.
- H. Install insulation with least number of joints practical.
- I. Where vapor barrier is indicated, seal joints, seams, and penetrations in insulation at hangers, supports, anchors, and other projections with vapor-barrier mastic.
 - 1. Install insulation continuously through hangers and around anchor attachments.
 - 2. For insulation application where vapor barriers are indicated, extend insulation on anchor legs from point of attachment to supported item to point of attachment to structure. Taper and seal ends at attachment to structure with vapor-barrier mastic.
 - 3. Install insert materials and install insulation to tightly join the insert. Seal insulation to insulation inserts with adhesive or sealing compound recommended by insulation material manufacturer.
- J. Apply adhesives, mastics, and sealants at manufacturer's recommended coverage rate and wet and dry film thicknesses.
- K. Install insulation with factory-applied jackets as follows:
 - 1. Draw jacket tight and smooth.
 - 2. Cover circumferential joints with 3-inch-wide strips, of same material as insulation jacket. Secure strips with adhesive and outward clinching staples along both edges of strip, spaced 4 inches o.c.
 - 3. Overlap jacket longitudinal seams at least 1-1/2 inches. Clean and dry surface to receive self-sealing lap. Staple laps with outward clinching staples along edge at 4 inches o.c.
 - a. For below ambient services, apply vapor-barrier mastic over staples.
 - 4. Cover joints and seams with tape, according to insulation material manufacturer's written instructions, to maintain vapor seal.
 - 5. Where vapor barriers are indicated, apply vapor-barrier mastic on seams and joints and at ends adjacent to duct flanges and fittings.
- L. Cut insulation in a manner to avoid compressing insulation more than 75 percent of its nominal thickness.
- M. Finish installation with systems at operating conditions. Repair joint separations and cracking due to thermal movement.
- N. Repair damaged insulation facings by applying same facing material over damaged areas. Extend patches at least 4 inches beyond damaged areas. Adhere, staple, and seal patches similar to butt joints.

3.4 PENETRATIONS

- A. Insulation Installation at Roof Penetrations: Install insulation continuously through roof penetrations.
1. Seal penetrations with flashing sealant.
 2. For applications requiring only indoor insulation, terminate insulation above roof surface and seal with joint sealant. For applications requiring indoor and outdoor insulation, install insulation for outdoor applications tightly joined to indoor insulation ends. Seal joint with joint sealant.
 3. Extend jacket of outdoor insulation outside roof flashing at least 2 inches below top of roof flashing.
 4. Seal jacket to roof flashing with flashing sealant.

3.5 INSTALLATION OF FLEXIBLE ELASTOMERIC INSULATION

- A. Seal longitudinal seams and end joints with manufacturer's recommended adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.

3.6 INSTALLATION OF MINERAL-FIBER INSULATION

- A. Blanket Insulation Installation on Ducts and Plenums: Secure with adhesive and insulation pins.
1. Apply adhesives according to manufacturer's recommended coverage rates per unit area, for 100 percent coverage of duct and plenum surfaces.
 2. Apply adhesive to entire circumference of ducts and to all surfaces of fittings and transitions.
 3. Install either capacitor-discharge-weld pins and speed washers or cupped-head, capacitor-discharge-weld pins on sides and bottom of horizontal ducts and sides of vertical ducts as follows:
 - a. On duct sides with dimensions 18 inches and smaller, place pins along longitudinal centerline of duct. Space 3 inches maximum from insulation end joints, and 16 inches o.c.
 - b. On duct sides with dimensions larger than 18 inches, place pins 16 inches o.c. each way, and 3 inches maximum from insulation joints. Install additional pins to hold insulation tightly against surface at cross bracing.
 - c. Pins may be omitted from top surface of horizontal, rectangular ducts and plenums.
 - d. Do not over compress insulation during installation.
 - e. Impale insulation over pins and attach speed washers.
 - f. Cut excess portion of pins extending beyond speed washers or bend parallel with insulation surface. Cover exposed pins and washers with tape matching insulation facing.
 4. Overlap unfaced blankets a minimum of 2 inches on longitudinal seams and end joints. At end joints, secure with steel bands spaced a maximum of 18 inches o.c.

5. Install insulation on rectangular duct elbows and transitions with a full insulation section for each surface. Install insulation on round and flat-oval duct elbows with individually mitered gores cut to fit the elbow.
 6. Insulate duct stiffeners, hangers, and flanges that protrude beyond insulation surface with 6-inch-wide strips of same material used to insulate duct. Secure on alternating sides of stiffener, hanger, and flange with pins spaced 6 inches o.c.
- B. Board Insulation Installation on Ducts and Plenums: Secure with adhesive and insulation pins.
1. Apply adhesives according to manufacturer's recommended coverage rates per unit area, for 100 percent coverage of duct and plenum surfaces.
 2. Apply adhesive to entire circumference of ducts and to all surfaces of fittings and transitions.
 3. Install either capacitor-discharge-weld pins and speed washers or cupped-head, capacitor-discharge-weld pins on sides and bottom of horizontal ducts and sides of vertical ducts as follows:
 - a. On duct sides with dimensions 18 inches and smaller, place pins along longitudinal centerline of duct. Space 3 inches maximum from insulation end joints, and 16 inches o.c.
 - b. On duct sides with dimensions larger than 18 inches, space pins 16 inches o.c. each way, and 3 inches maximum from insulation joints. Install additional pins to hold insulation tightly against surface at cross bracing.
 - c. Pins may be omitted from top surface of horizontal, rectangular ducts and plenums.
 - d. Do not over compress insulation during installation.
 - e. Cut excess portion of pins extending beyond speed washers or bend parallel with insulation surface. Cover exposed pins and washers with tape matching insulation facing.
 4. Install insulation on rectangular duct elbows and transitions with a full insulation section for each surface. Groove and score insulation to fit as closely as possible to outside and inside radius of elbows. Install insulation on round and flat-oval duct elbows with individually mitered gores cut to fit the elbow.
 5. Insulate duct stiffeners, hangers, and flanges that protrude beyond insulation surface with 6-inch-wide strips of same material used to insulate duct. Secure on alternating sides of stiffener, hanger, and flange with pins spaced 6 inches o.c.

3.7 FIELD-APPLIED JACKET INSTALLATION

- A. Where glass-cloth jackets are indicated, install directly over bare insulation or insulation with factory-applied jackets.
1. Draw jacket smooth and tight to surface with 2-inch overlap at seams and joints.
 2. Embed glass cloth between two 0.062-inch-thick coats of lagging adhesive.
 3. Completely encapsulate insulation with coating, leaving no exposed insulation.
- B. Where FSK jackets are indicated, install as follows:

1. Draw jacket material smooth and tight.
 2. Install lap or joint strips with same material as jacket.
 3. Secure jacket to insulation with manufacturer's recommended adhesive.
 4. Install jacket with 1-1/2-inch laps at longitudinal seams and 3-inch-wide joint strips at end joints.
 5. Seal openings, punctures, and breaks in vapor-retarder jackets and exposed insulation with vapor-barrier mastic.
- C. Color: Final color as selected by Architect. Vary first and second coats to allow visual inspection of the completed Work.
- D. Do not field paint aluminum or stainless-steel jackets.

3.8 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. Perform tests and inspections.
- C. Tests and Inspections:
1. Inspect ductwork, randomly selected by Architect, by removing field-applied jacket and insulation in layers in reverse order of their installation. Extent of inspection shall be limited to one location for each duct system defined in the "Duct Insulation Schedule, General" Article.
- D. All insulation applications will be considered defective Work if sample inspection reveals noncompliance with requirements.

3.9 DUCT INSULATION SCHEDULE, GENERAL

- A. Plenums and Ducts Requiring Insulation:
1. Indoor, exposed supply and outdoor air.
 2. Indoor, exposed return located in unconditioned space.
 3. Indoor, concealed exhaust between isolation damper and penetration of building exterior.
 4. Indoor, exposed exhaust between isolation damper and penetration of building exterior.
 5. Outdoor, exposed supply and return.
- B. Items Not Insulated:
1. Fibrous-glass ducts.
 2. Factory-insulated flexible ducts.
 3. Factory-insulated plenums and casings.
 4. Flexible connectors.
 5. Vibration-control devices.
 6. Factory-insulated access panels and doors.

3.10 INDOOR DUCT INSULATION SCHEDULE

- A. Exposed and concealed, rectangular, supply-air duct insulation shall be one of the following:
 - 1. Flexible Elastomeric: 1 inch thick.
 - 2. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.
- B. Exposed and concealed, rectangular, return-air duct insulation shall be one of the following:
 - 1. Flexible Elastomeric: 1 inch thick.
 - 2. Mineral-Fiber Blanket: 1-1/2 inches thick and 0.75-lb/cu. ft. nominal density.
- C. Exposed and concealed, rectangular, outdoor-air duct insulation shall be one of the following:
 - 1. Flexible Elastomeric: 1-1/2 inch thick.
 - 2. Mineral-Fiber Board: 2 inches thick and 3-lb/cu. ft. nominal density.
- D. Exposed and concealed, rectangular, exhaust-air duct insulation between isolation damper and penetration of building exterior shall be one of the following:
 - 1. Flexible Elastomeric: 1 inch thick.
 - 2. Mineral-Fiber Board: 2 inches thick and 2-lb/cu. ft. nominal density.
- E. Exposed and concealed, round supply-air duct insulation shall be one of the following:
 - 1. Flexible Elastomeric: 1 inch thick.
 - 2. Mineral-Fiber Blanket: 2 inches thick and 1.5-lb/cu. ft. nominal density.
- F. Exposed or concealed, round return-air duct insulation shall be one of the following:
 - 1. Flexible Elastomeric: 1 inch thick.
 - 2. Mineral-Fiber Blanket: 1-1/2 inches thick and 0.75-lb/cu. ft. nominal density.

3.11 OUTDOOR DUCT INSULATION SCHEDULE

- A. ***Exposed and concealed, rectangular, supply-air duct insulation shall be one of the following:***
 - 1. ***Flexible Elastomeric: 1 inch thick.***
 - 2. ***Mineral-Fiber Board: 2 inches thick and 1.5-lb/cu. ft. nominal density.***
- B. ***Exposed and concealed, rectangular, return-air duct insulation shall be one of the following:***
 - 1. ***Flexible Elastomeric: 1 inch thick.***
 - 2. ***Mineral-Fiber Board: 1-1/2 inches thick and 0.75-lb/cu. ft. nominal density.***

C. Exposed and concealed, round supply-air duct insulation shall be one of the following:

- 1. Flexible Elastomeric: 1 inch thick.**
- 2. Mineral-Fiber Board: 2 inches thick and 1.5-lb/cu. ft. nominal density.**

D. Exposed or concealed, round return-air duct insulation shall be one of the following:

- 1. Flexible Elastomeric: 1 inch thick.**
- 2. Mineral-Fiber Board: 1-1/2 inches thick and 0.75-lb/cu. ft. nominal density.**

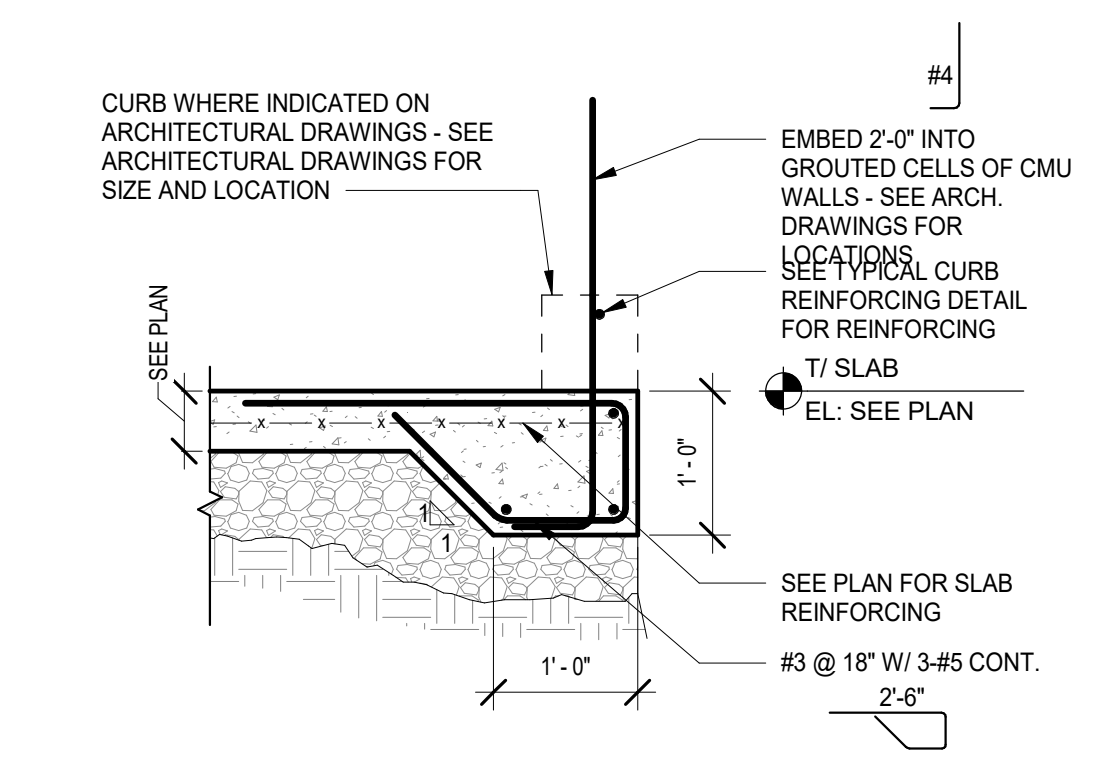
3.12 INDOOR, FIELD-APPLIED JACKET SCHEDULE

- A. Install jacket over insulation material. For insulation with factory-applied jacket, install the field-applied jacket over the factory-applied jacket.
- B. If more than one material is listed, selection from materials listed is Contractor's option.
- C. Ducts and Plenums, Exposed:
 1. None.
 2. FSK aluminum foil face.

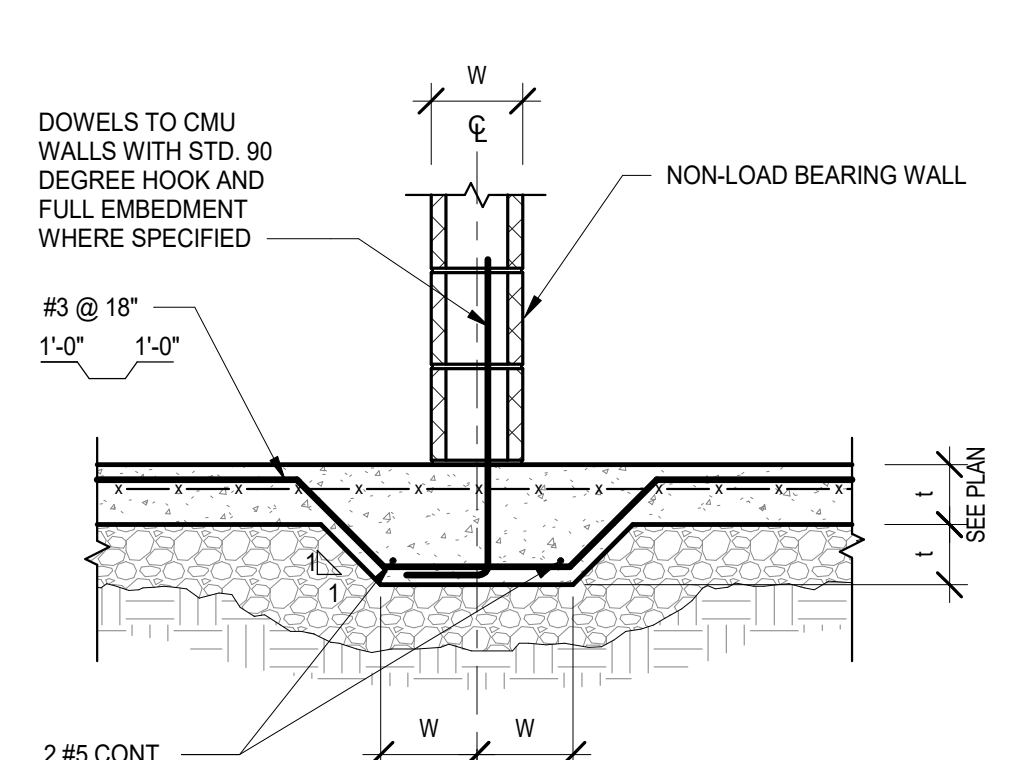
3.13 OUTDOOR, FIELD-APPLIED JACKET SCHEDULE

- A. Install jacket over insulation material. For insulation with factory-applied jacket, install the field-applied jacket over the factory-applied jacket.
- B. If more than one material is listed, selection from materials listed is Contractor's option.
- C. Ducts and Plenums, Exposed, up to 48 Inches in Diameter or with Flat Surfaces up to 72 Inches shall be one of the following:
 1. Aluminum, Corrugated: 0.024 inch thick.
 2. Self Adhesive Outdoor Jacket.

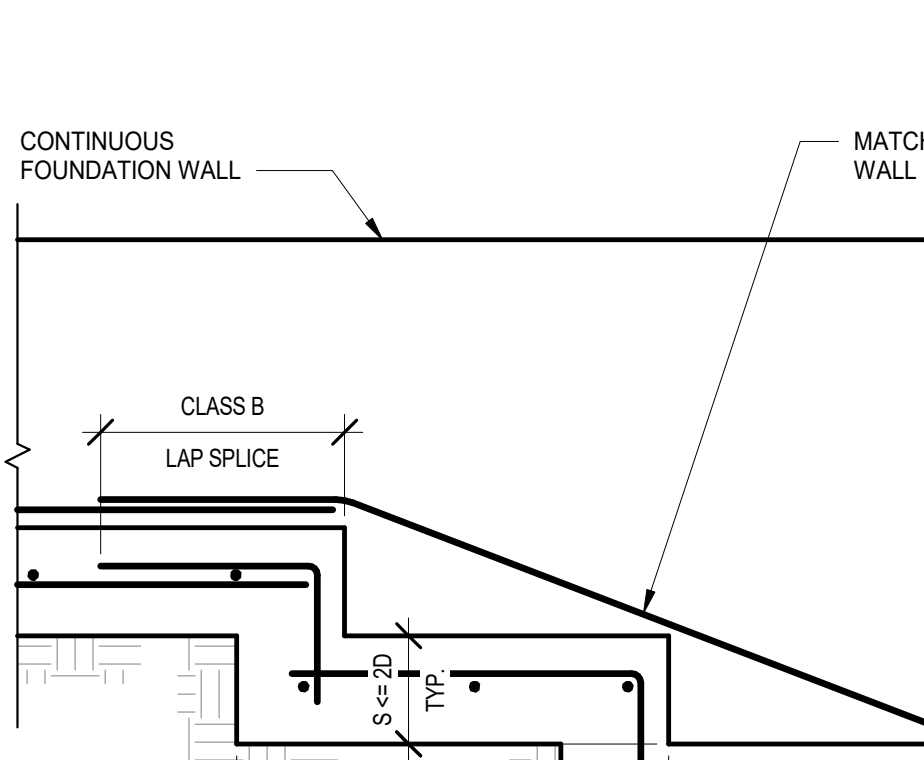
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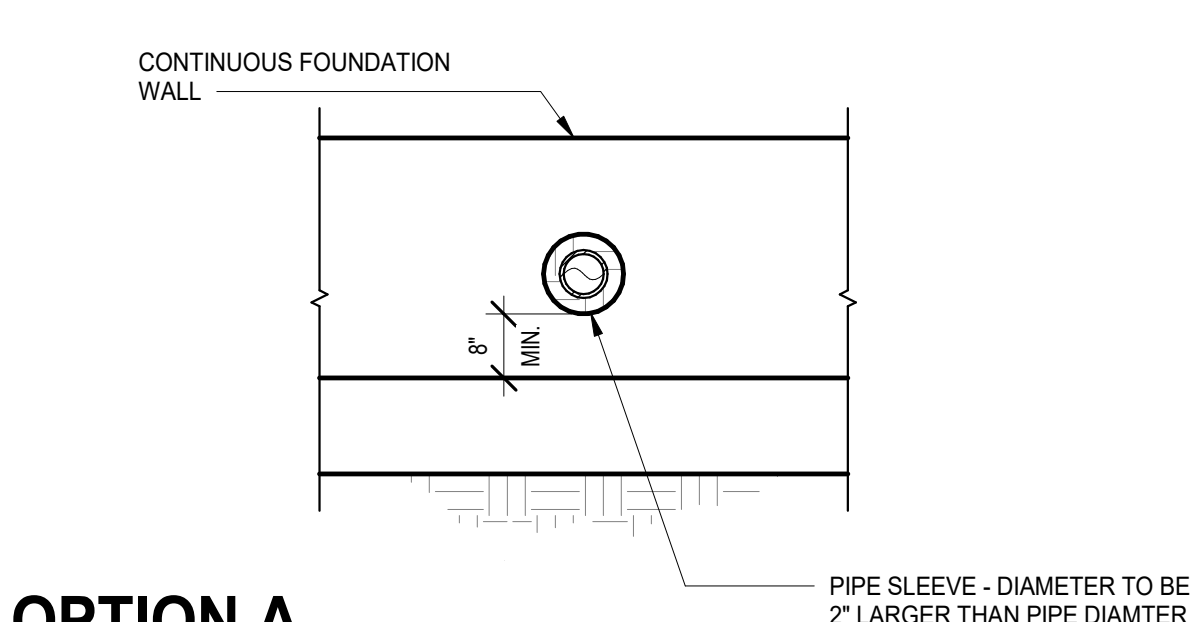
15 TYPICAL SLAB EDGE DETAIL N.T.S.



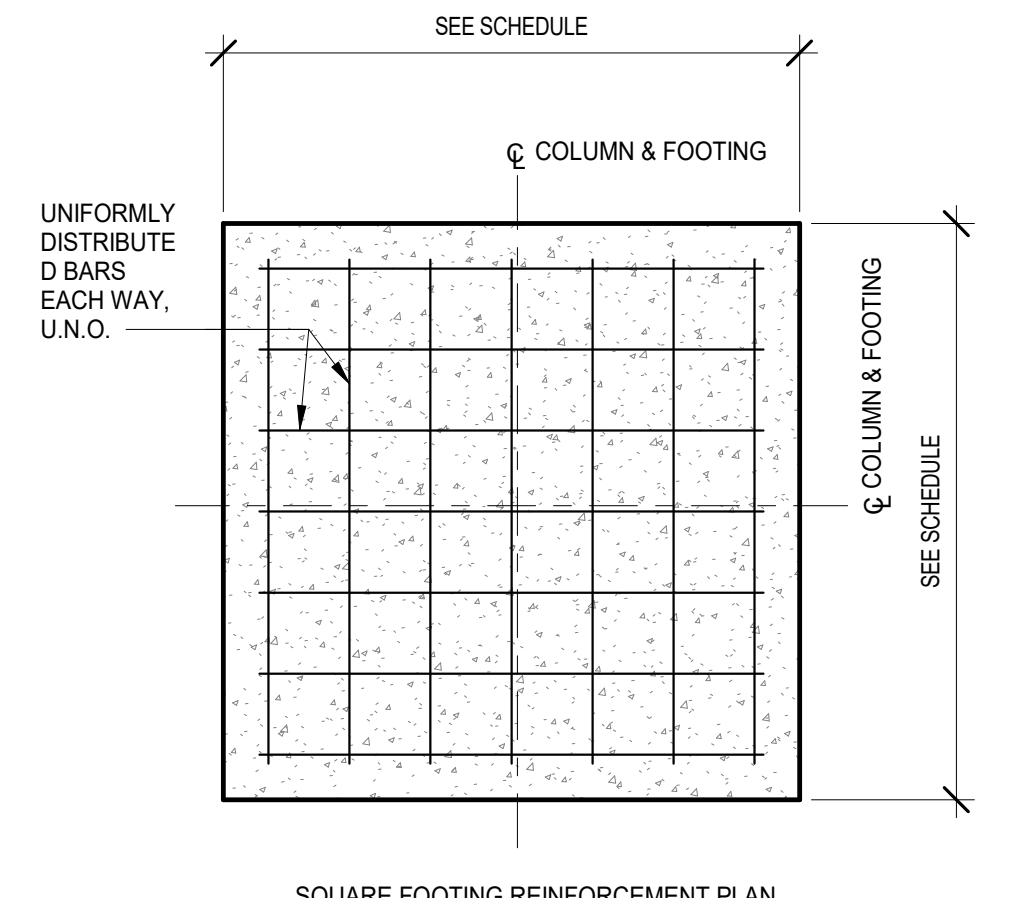
12 TYPICAL THICKENED SLAB-ON-GRADE DETAIL N.T.S.



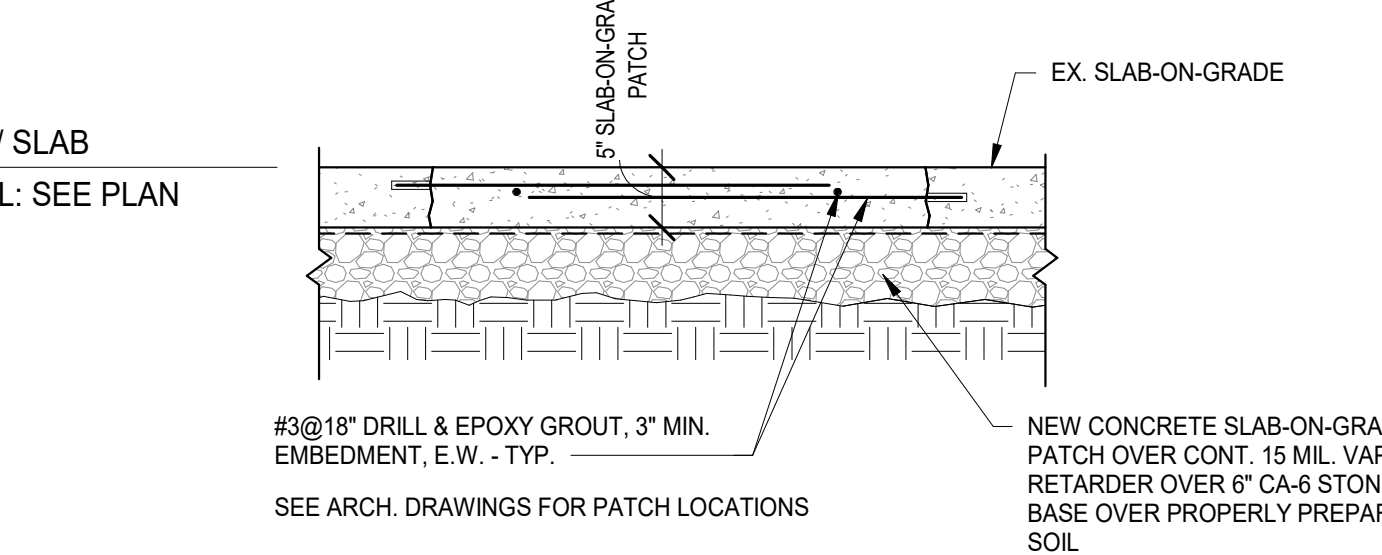
7 TYPICAL STEPPED FOOTING DETAIL N.T.S.



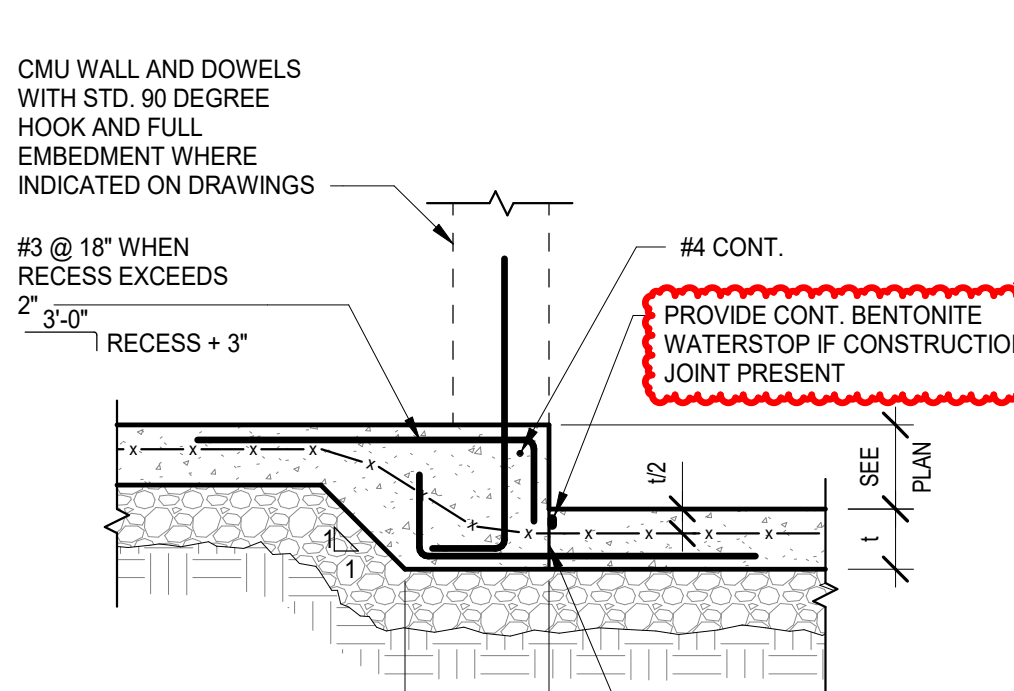
OPTION A



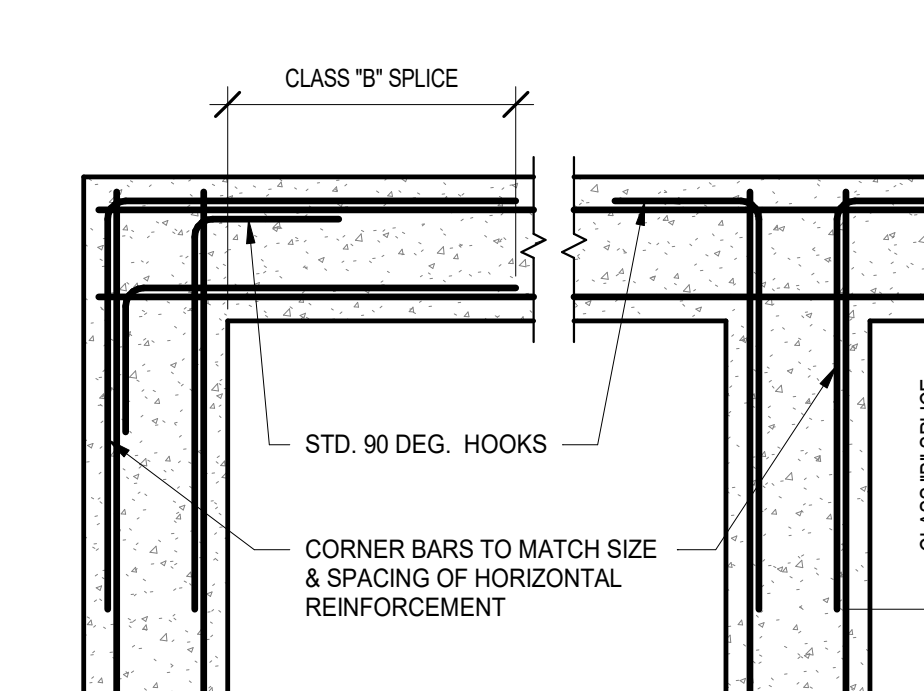
SQUARE SPREAD FOOTING SCHEDULE			
MARK	SIZE	BOTTOM REINFORCEMENT	TOP REINFORCEMENT
F40	4'-0" x 4'-0" x 1'-0"	6#5	-
F41	4'-0" x 4'-0" x 1'-3"	6#5	-
F42	4'-0" x 4'-0" x 1'-3"	6#5	6#5
F50	5'-0" x 5'-0" x 1'-0"	6#6	-
F51	5'-0" x 5'-0" x 1'-3"	6#6	-
F52	5'-0" x 5'-0" x 1'-0"	6#6	6#6
F60	6'-0" x 6'-0" x 1'-0"	7#6	7#6
F70	7'-0" x 7'-0" x 2'-0"	9#6	8#6



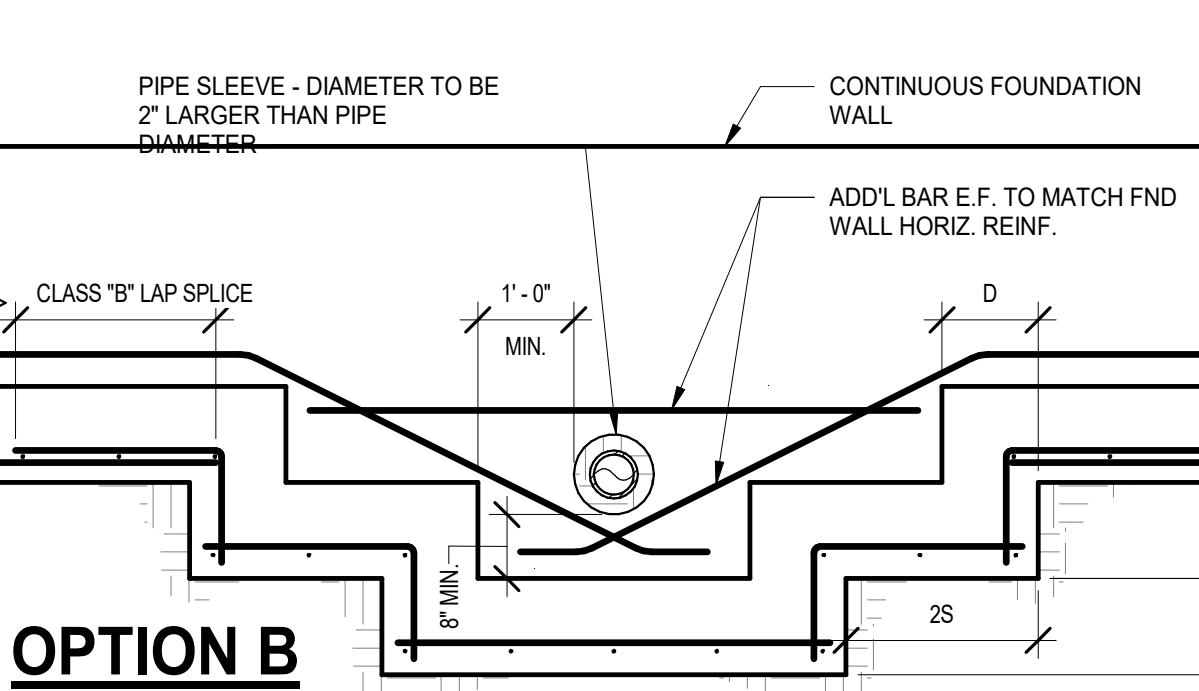
16 TYPICAL SLAB-ON-GRADE PATCH DETAIL N.T.S.



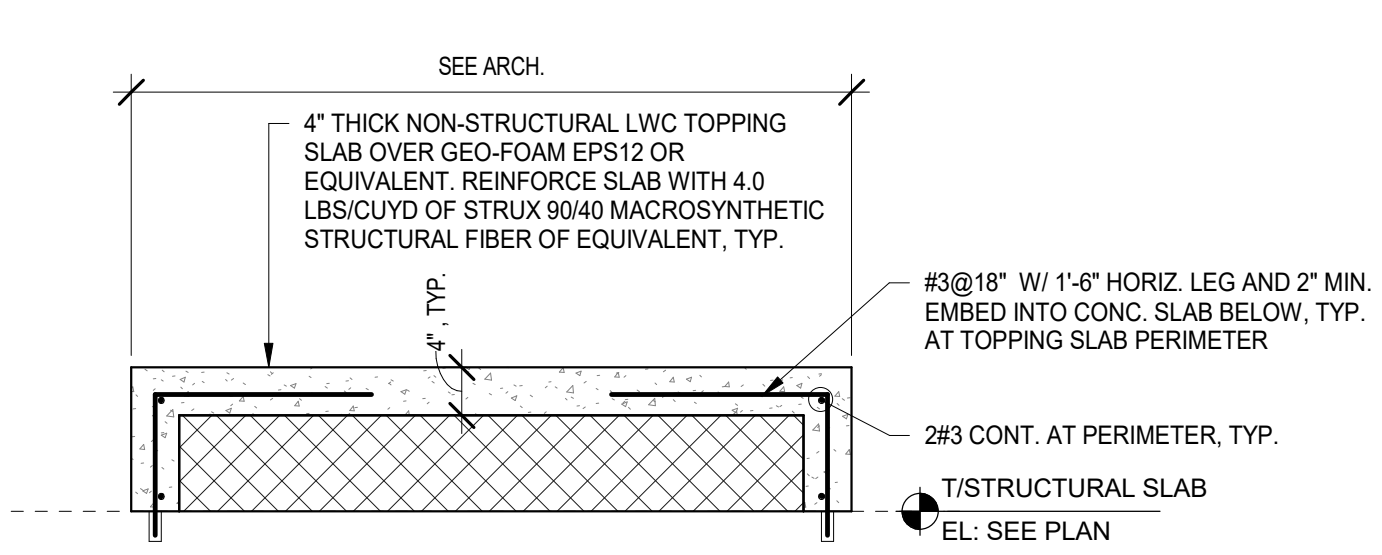
13 TYPICAL SLAB-ON-GRADE RECESS DETAIL N.T.S.



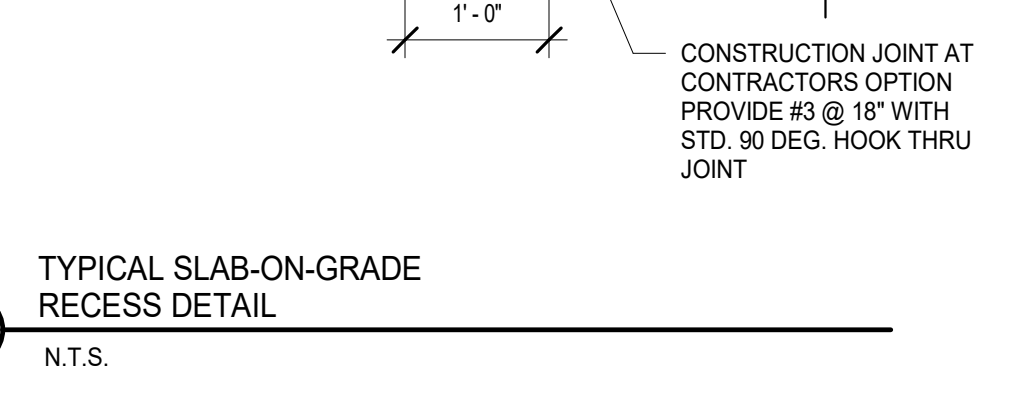
8 TYPICAL CONCRETE WALL CORNER BAR DETAIL N.T.S.



OPTION B



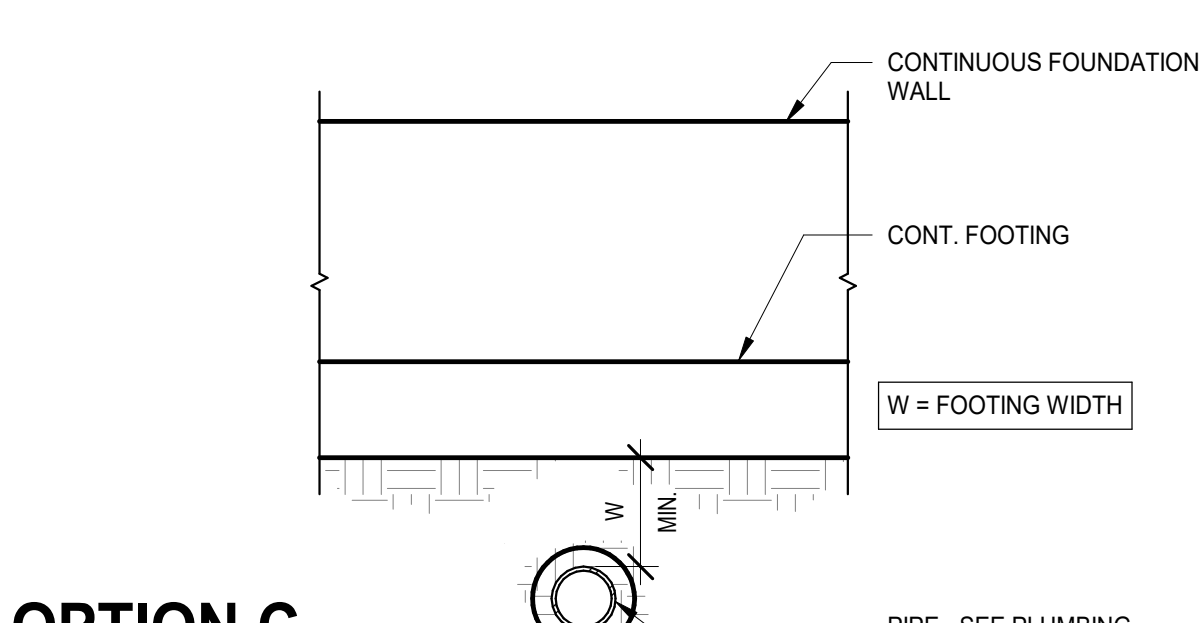
17 TYPICAL TOPPING SLAB DETAIL ON TOP OF SLAB-ON-GRADE N.T.S.



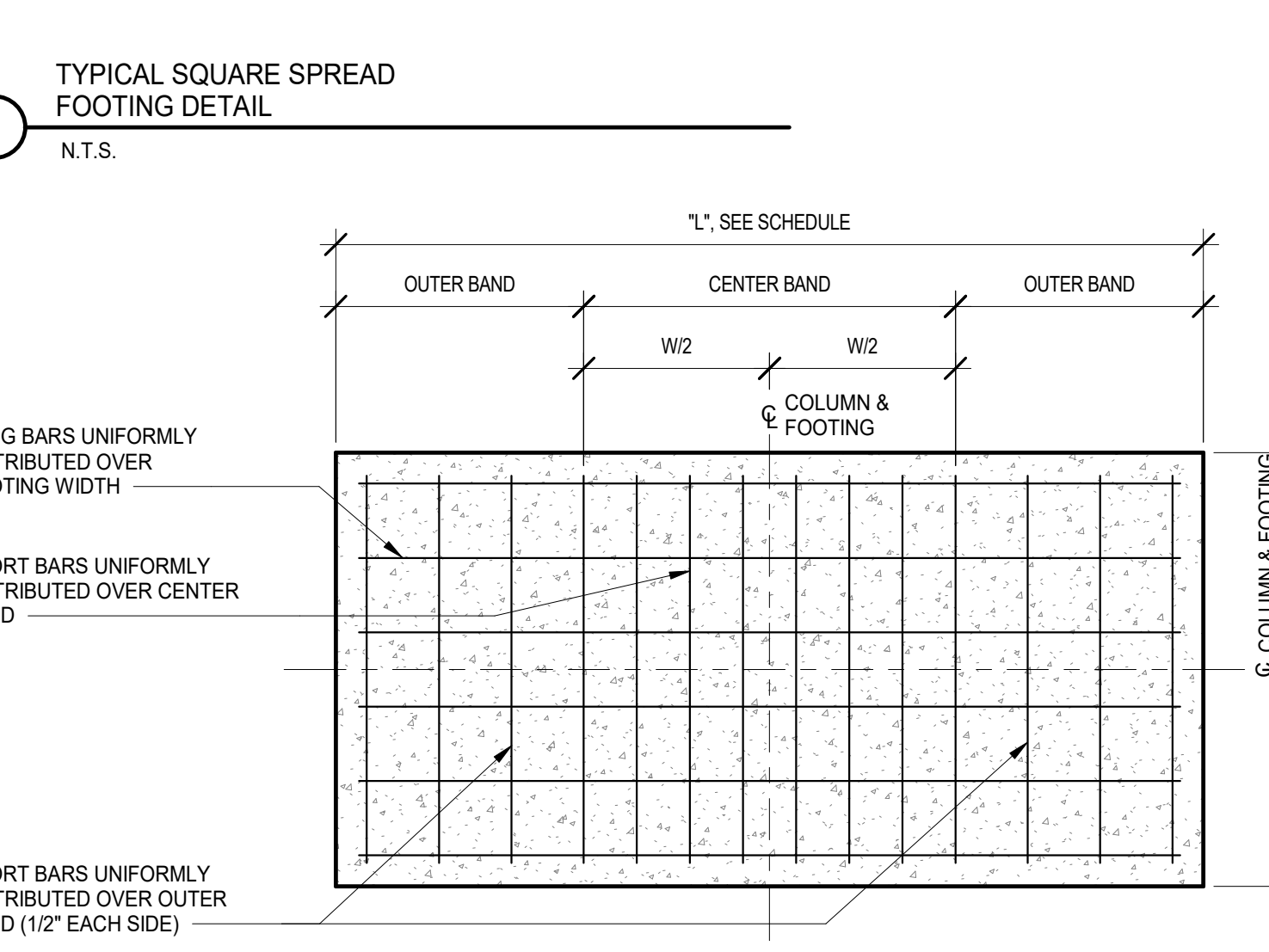
14 TYPICAL ISOLATION JOINT DETAIL (STEEL COLUMN) N.T.S.



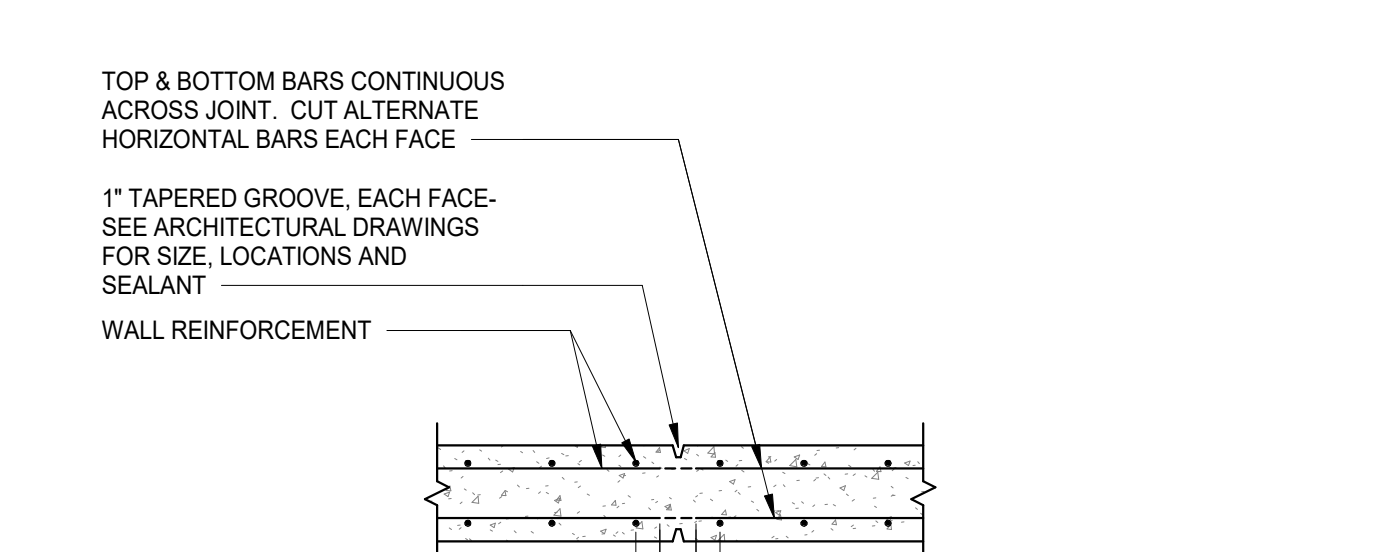
9 TYPICAL SLAB-ON-GRADE DETAIL N.T.S.



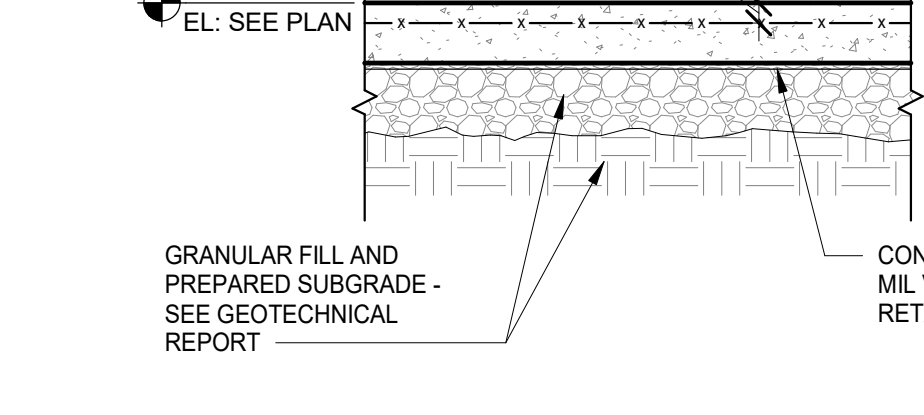
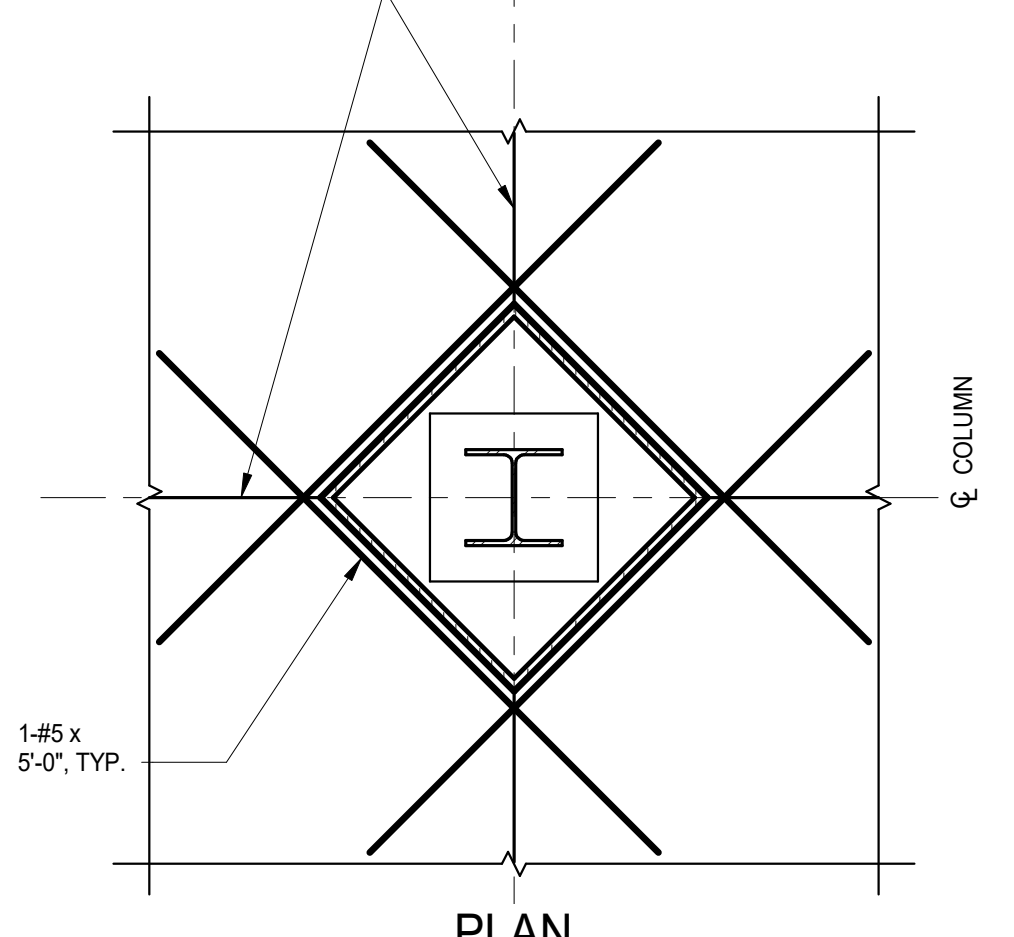
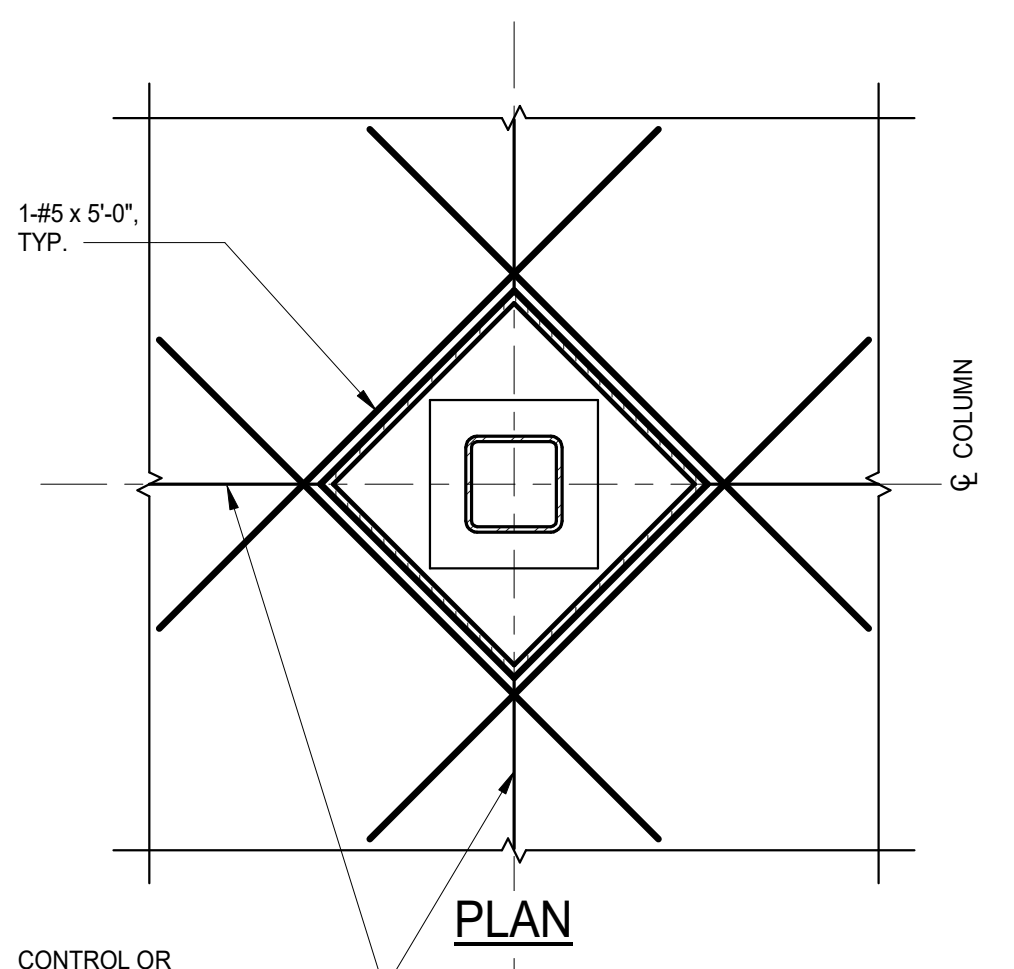
OPTION C



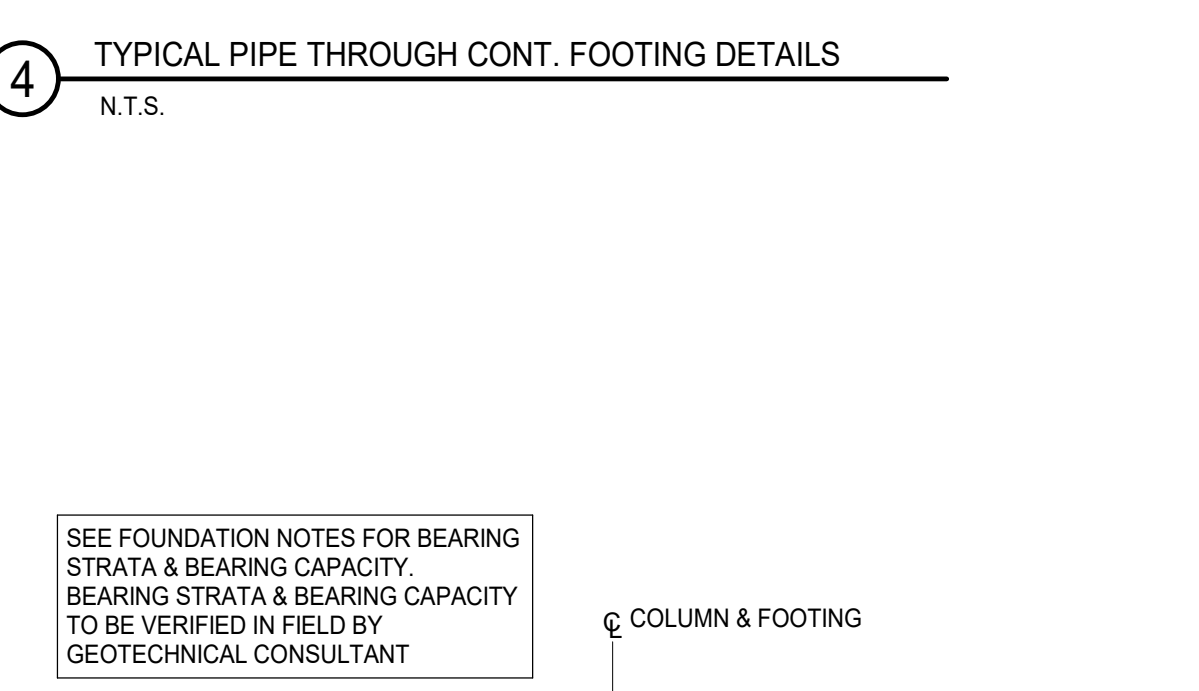
1 TYPICAL SQUARE SPREAD FOOTING DETAIL N.T.S.



18 TYPICAL CONCRETE WALL CONTROL JOINT DETAIL N.T.S.



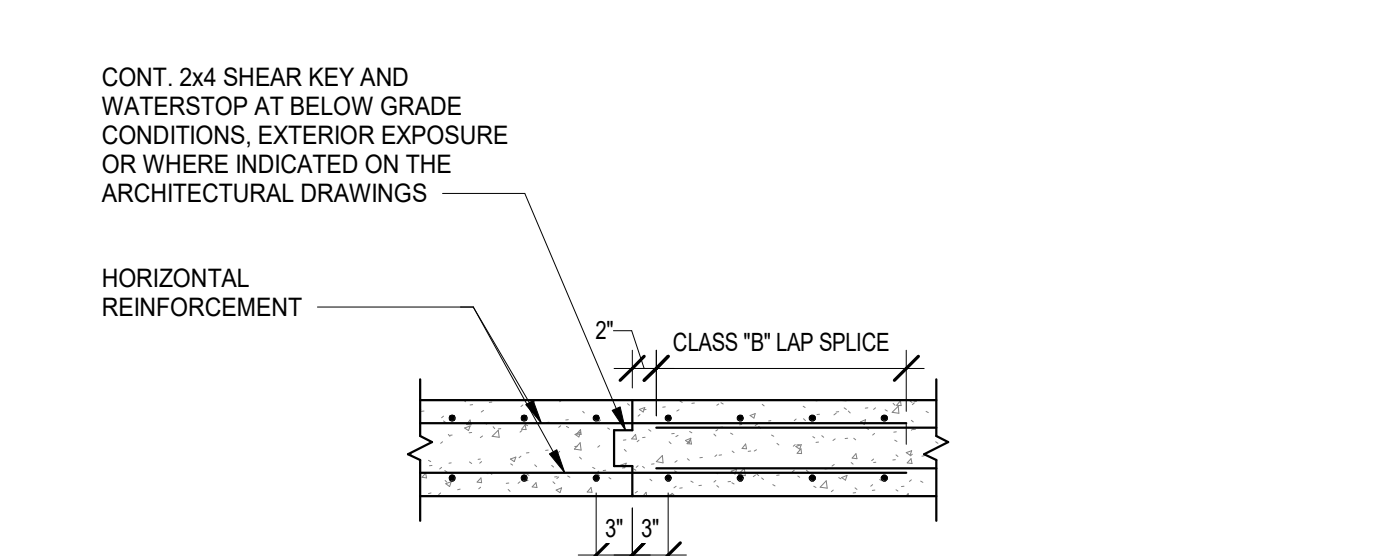
10 TYPICAL SLAB-ON-GRADE DETAIL N.T.S.



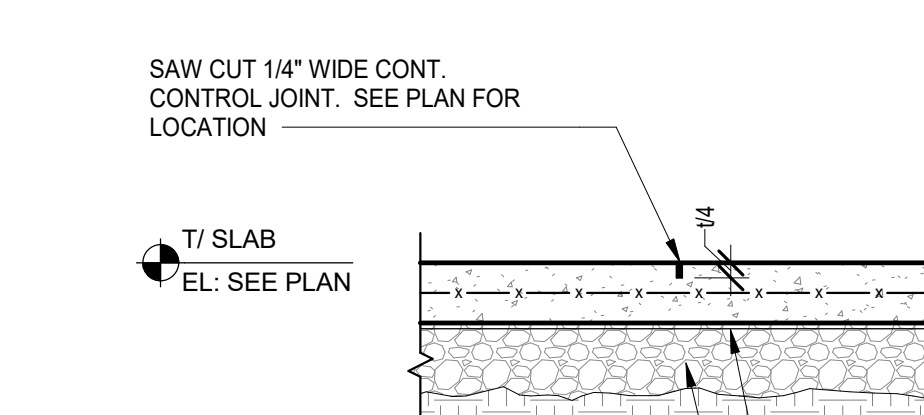
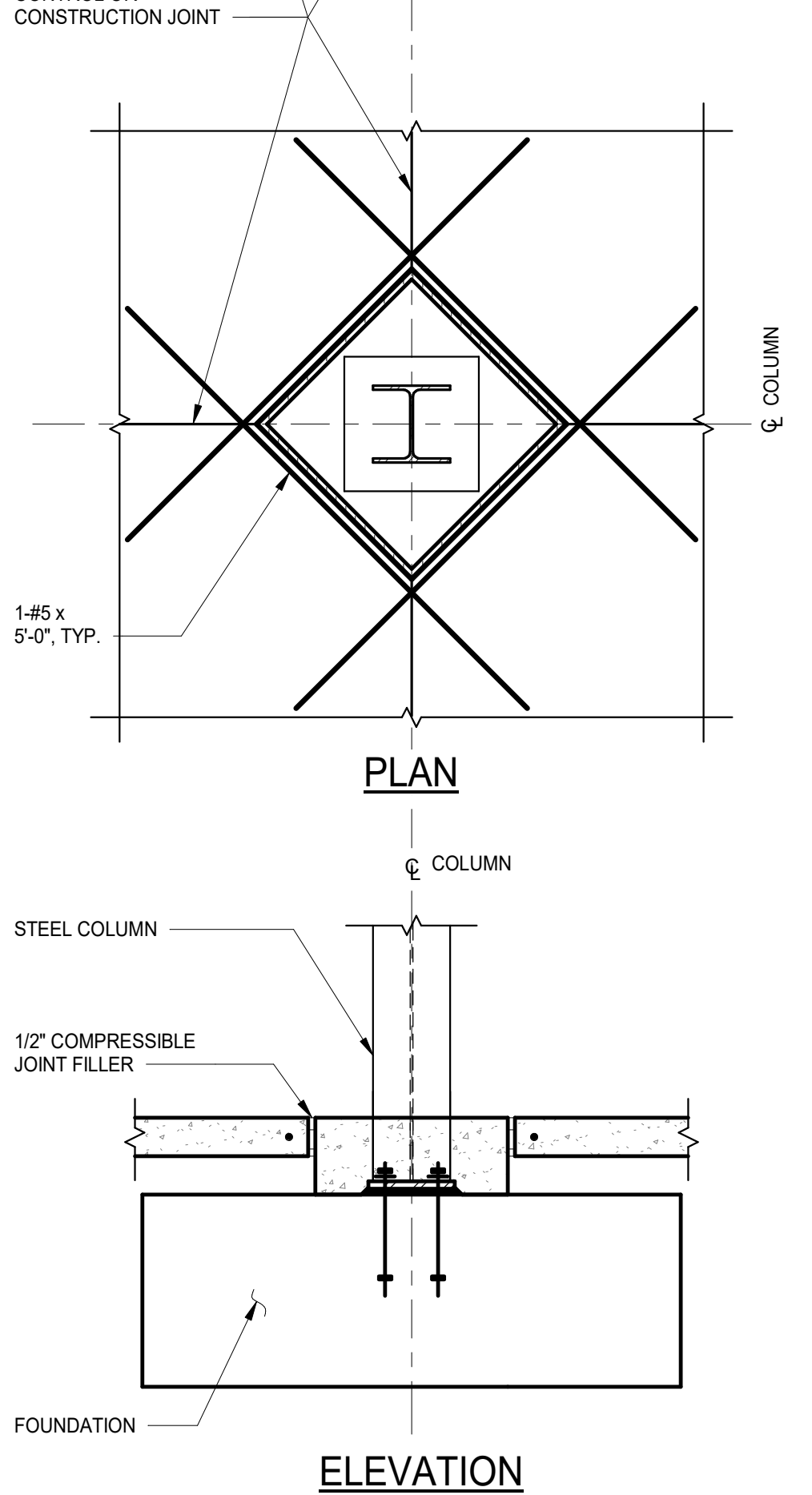
4 TYPICAL PIPE THROUGH CONT. FOOTING DETAILS N.T.S.

RECTANGULAR SPREAD FOOTING SCHEDULE						
MARK	SIZE (L' x W' x DEPTH)	BOTTOM REINFORCEMENT			TOP REINFORCEMENT	
		LONG BARS	SHORT CENTER BARS	SHORT OUTER BARS	LONG BARS	SHORT CENTER BARS
FR57	7'-0" x 5'-0" x 1'-0"	6#6	6#6	2#6	6#6	6#6
FR37	7'-0" x 3'-0" x 1'-0"	4#6	6#6	2#6	4#6	6#6

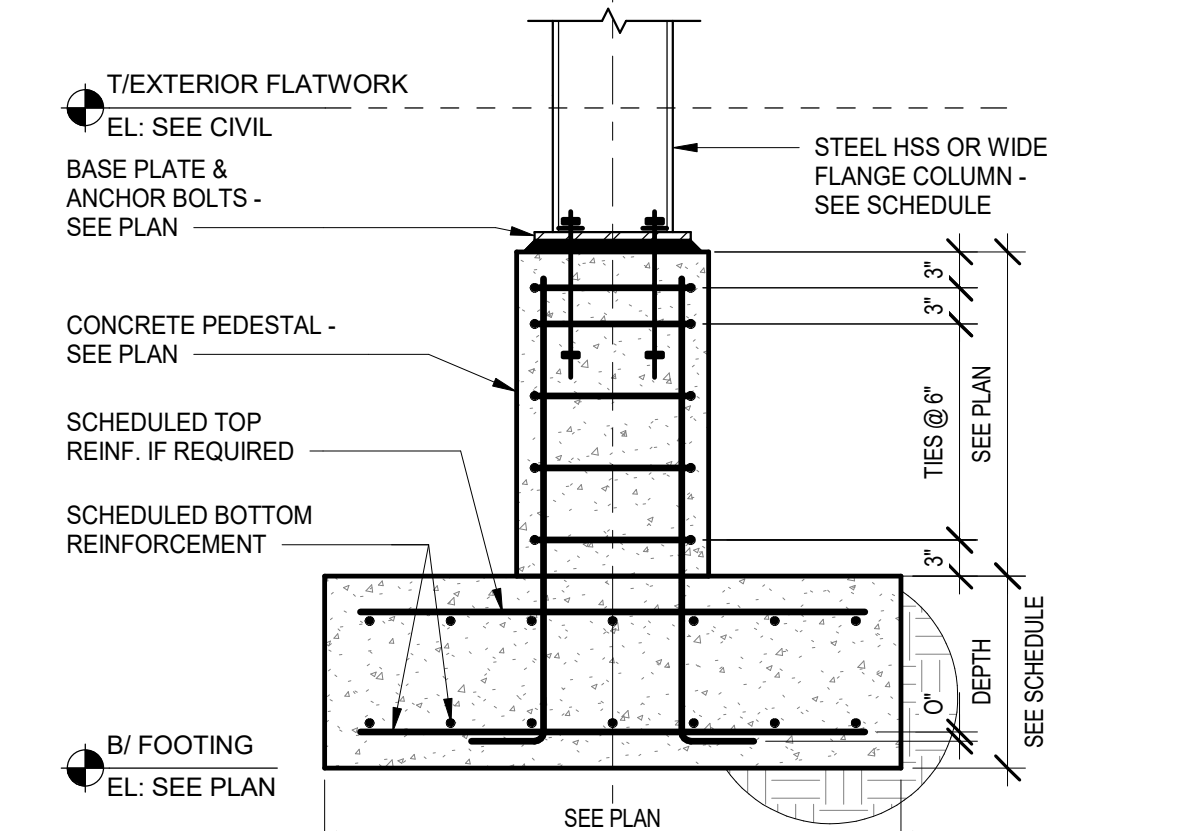
2 TYPICAL RECTANGULAR SPREAD FOOTING DETAIL N.T.S.



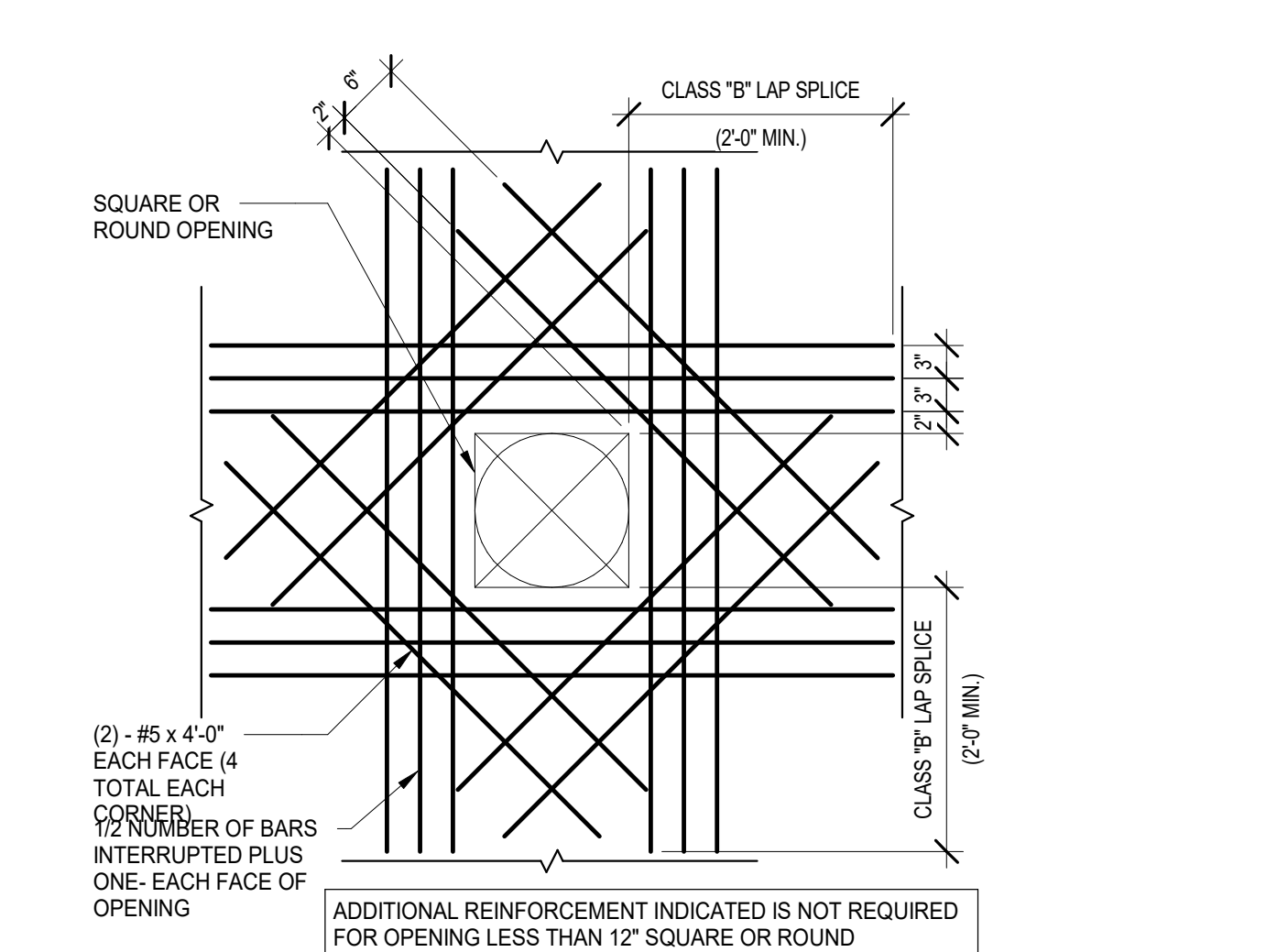
19 TYPICAL CONCRETE WALL VERTICAL CONSTRUCTION JOINT DETAIL N.T.S.



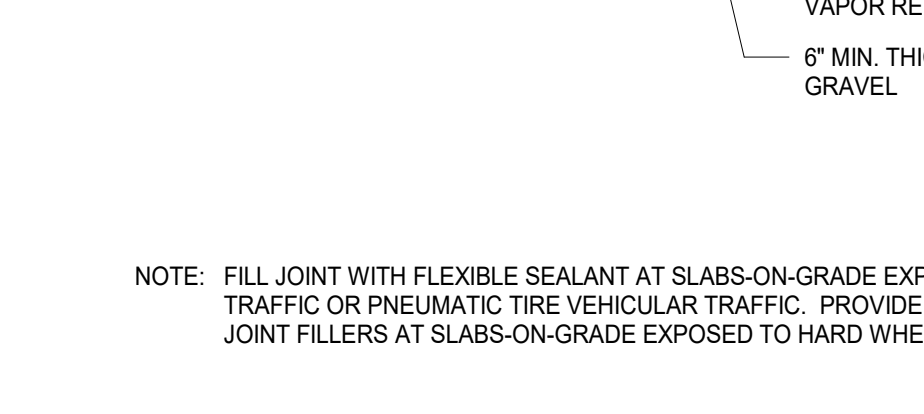
11 TYPICAL SLAB-ON-GRADE CONSTRUCTION JOINT DETAIL N.T.S.



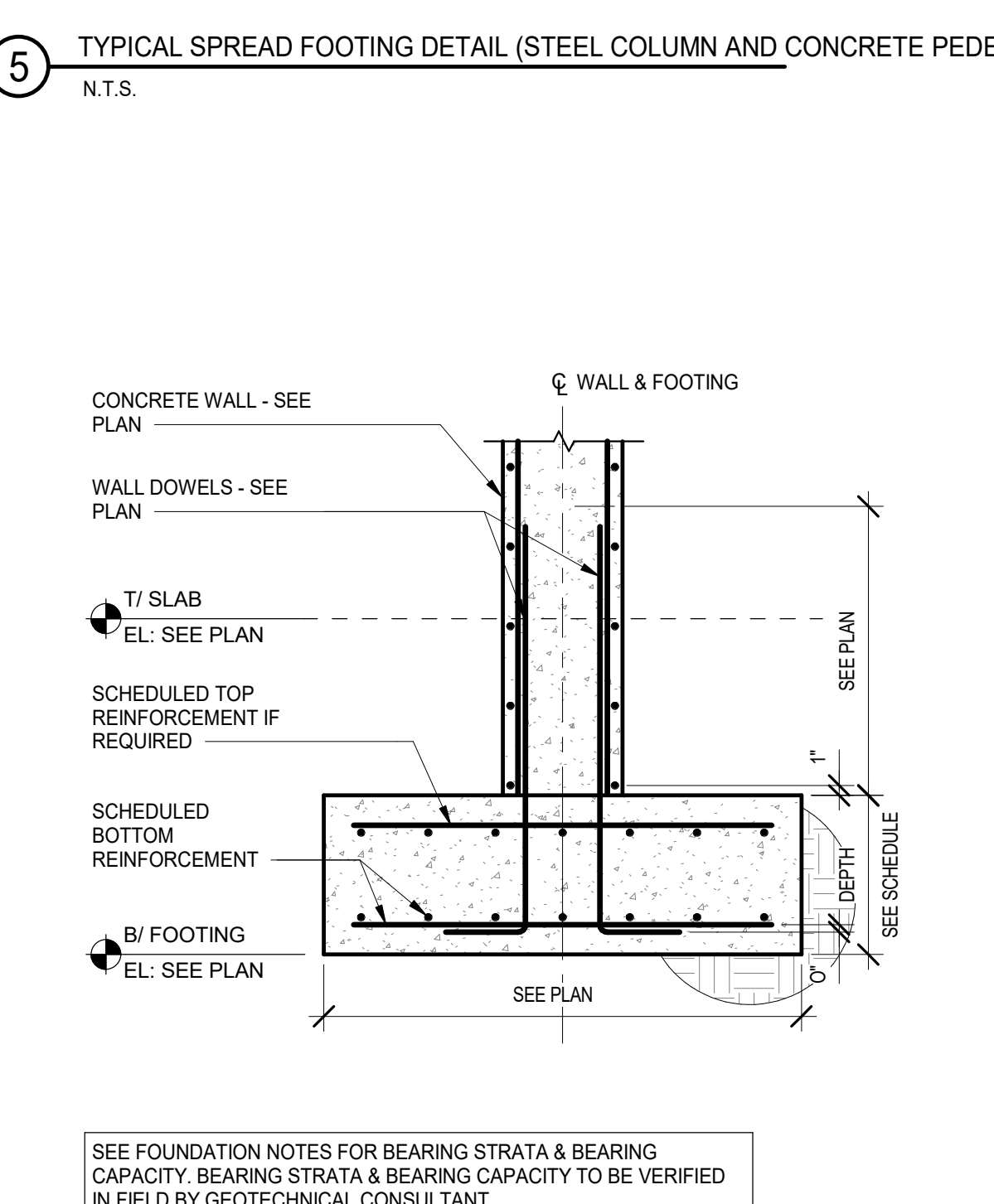
5 TYPICAL SPREAD FOOTING DETAIL (STEEL COLUMN AND CONCRETE PEDESTAL) N.T.S.



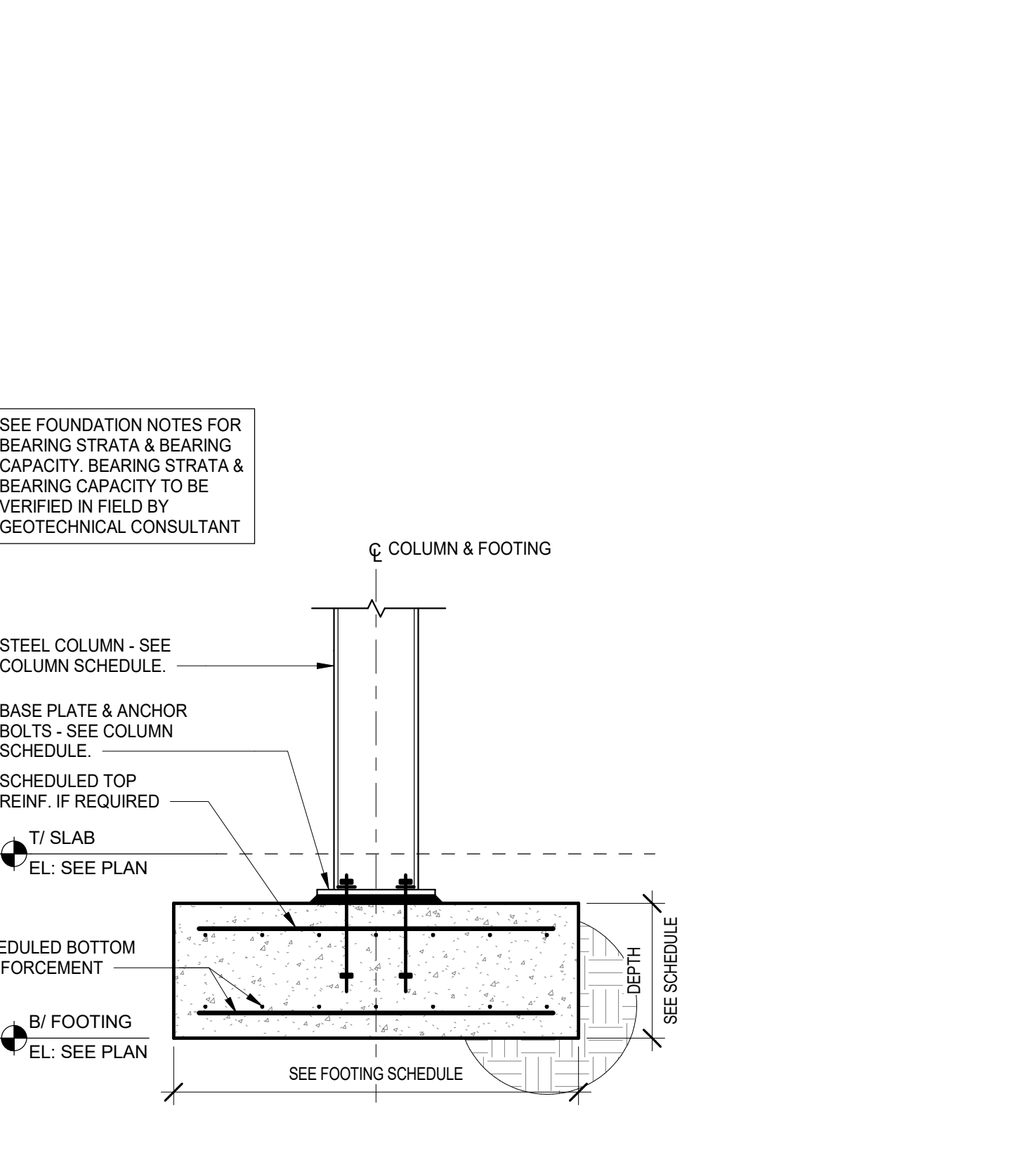
20 TYPICAL CONCRETE WALL OPENING DETAIL N.T.S.



14 TYPICAL ISOLATION JOINT DETAIL (STEEL COLUMN) N.T.S.

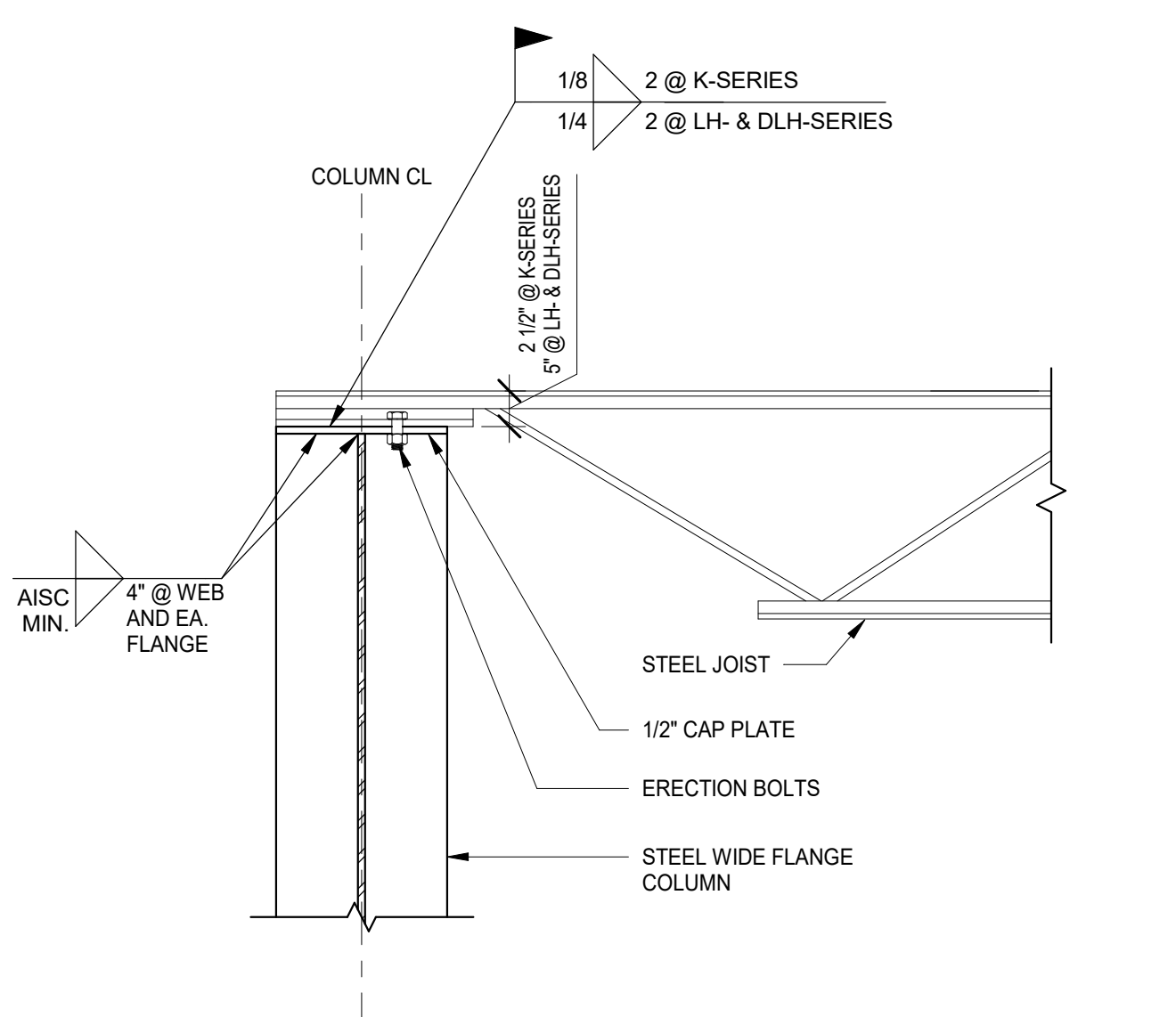


6 TYPICAL CONCRETE WALL FOOTING DETAIL N.T.S.

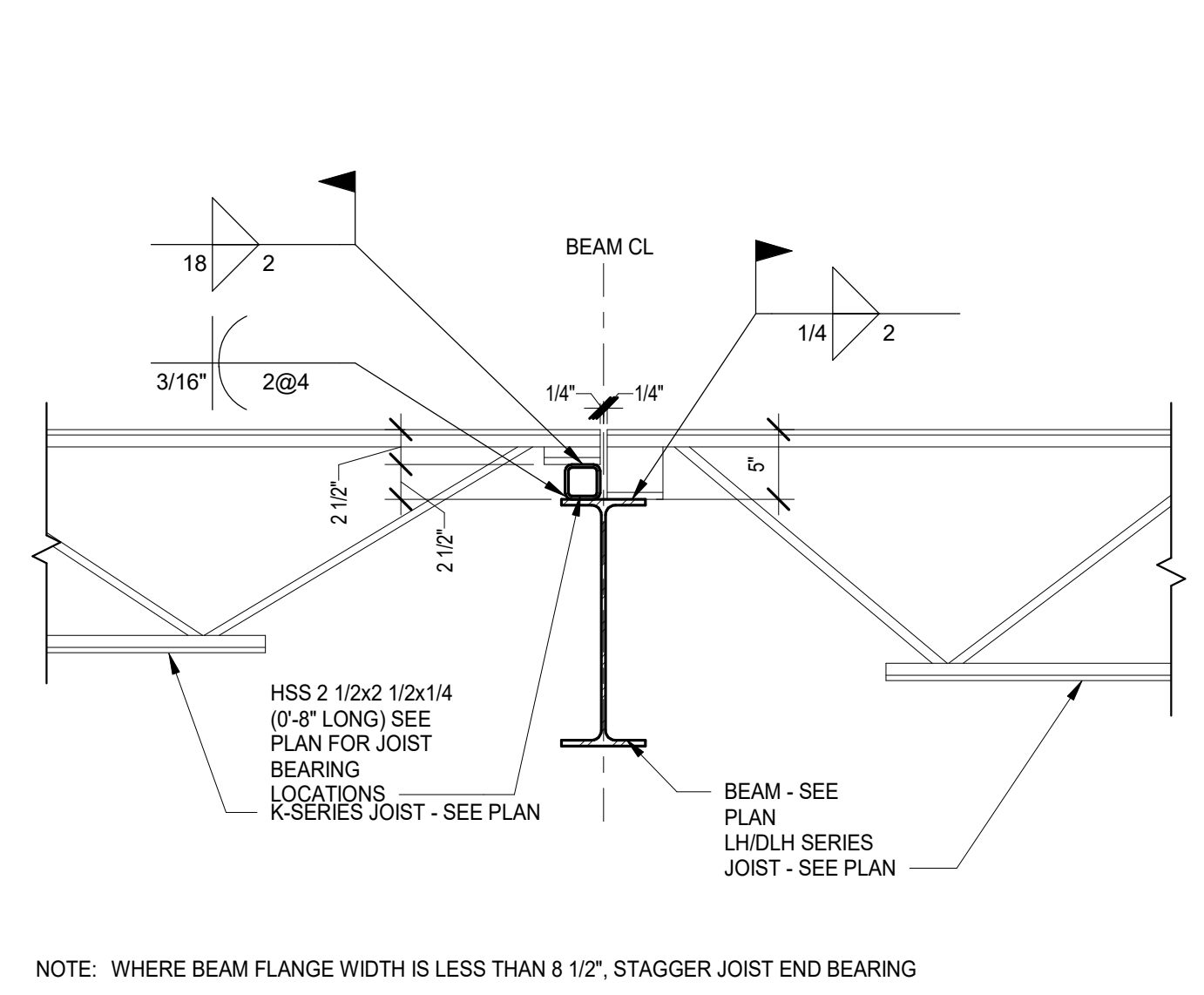


3 TYPICAL SPREAD FOOTING DETAIL (STEEL COLUMN) N.T.S.

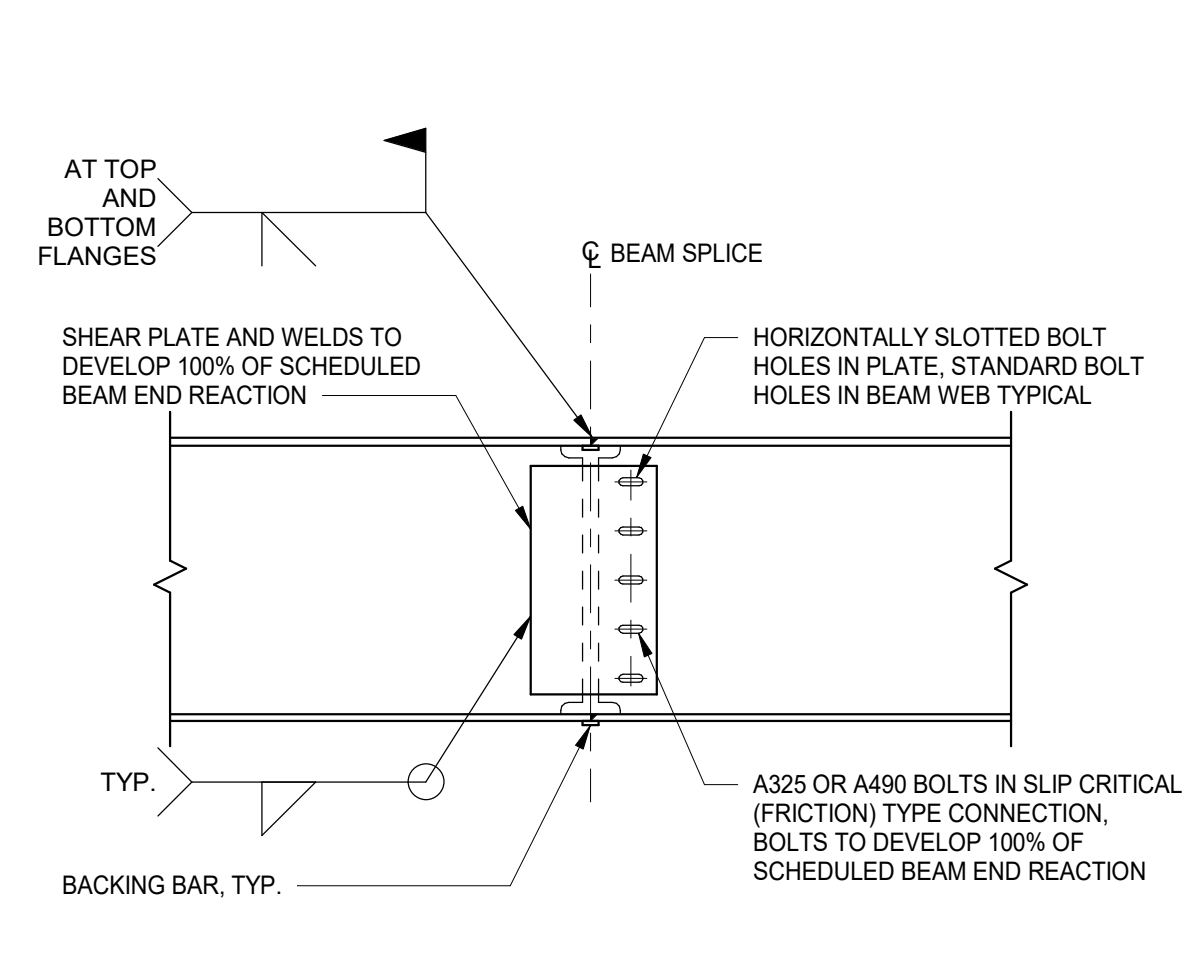
NOT FOR CONSTRUCTION



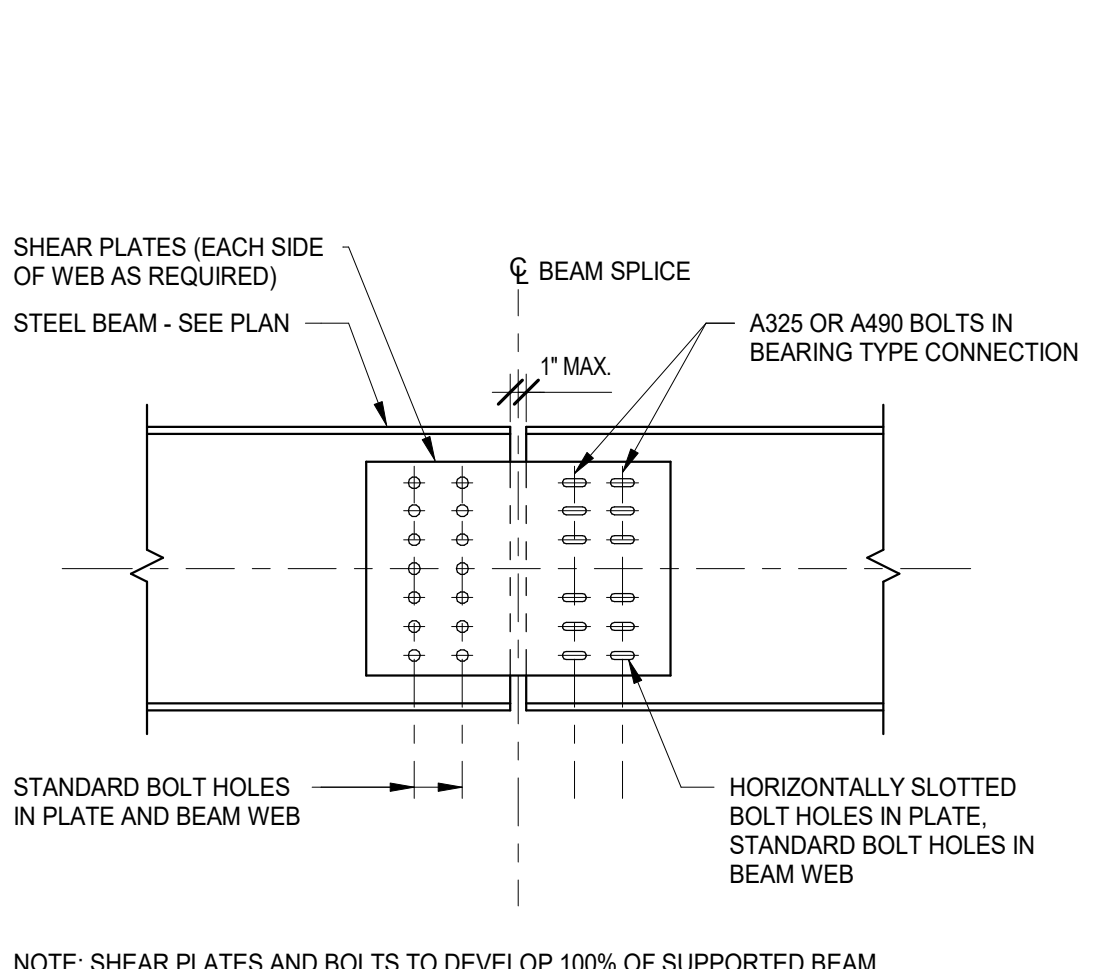
18 TYPICAL JOIST-TO-TOP OF COLUMN BEARING DETAIL (ONE SIDE OVER WF-WEB)
N.T.S.



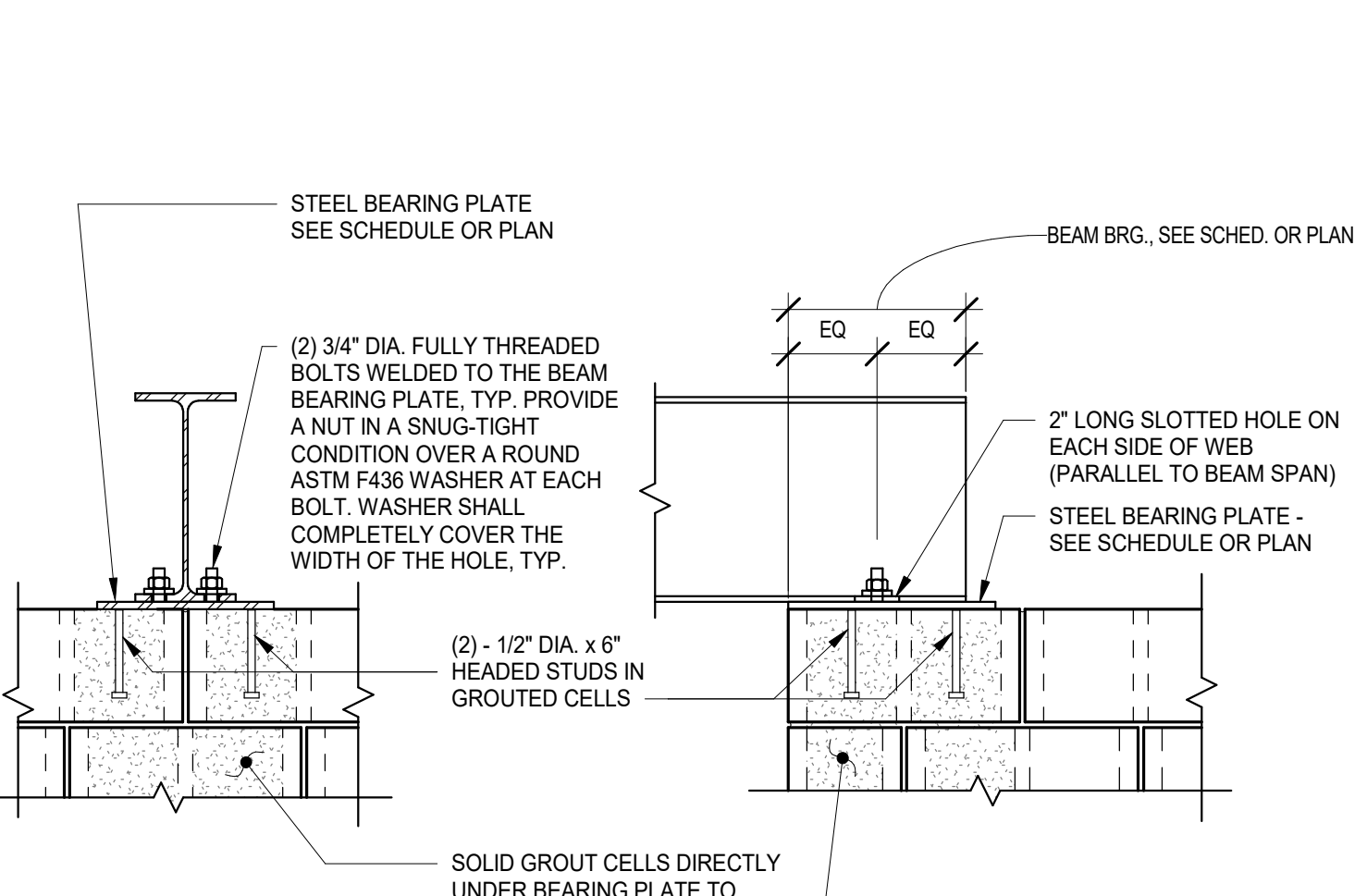
13 TYPICAL K & LH/DLH SERIES JOIST BEARING DETAIL
N.T.S.



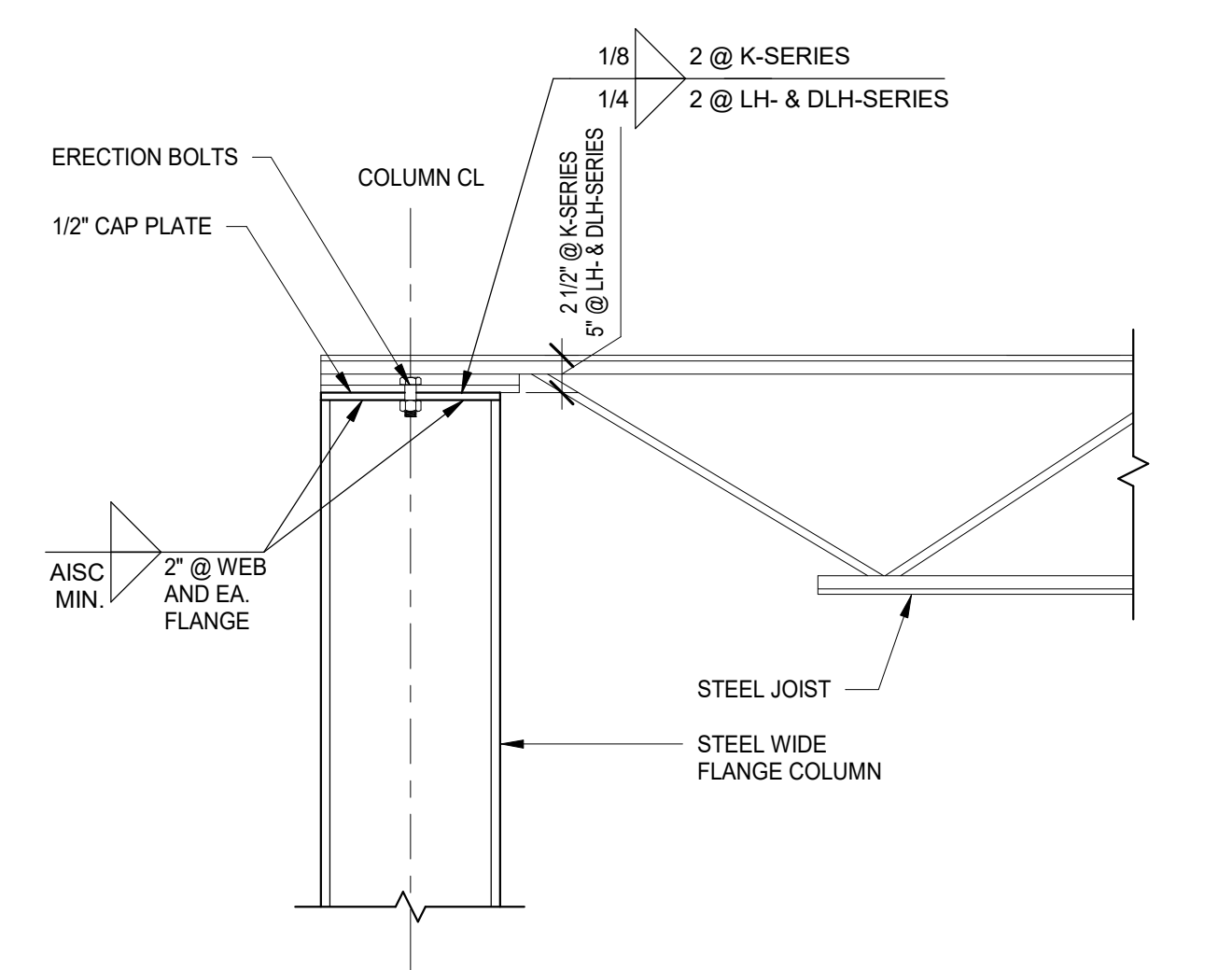
8 TYPICAL BEAM-TO-BEAM MOMENT SPLICE - FIELD CONNECTION
N.T.S.



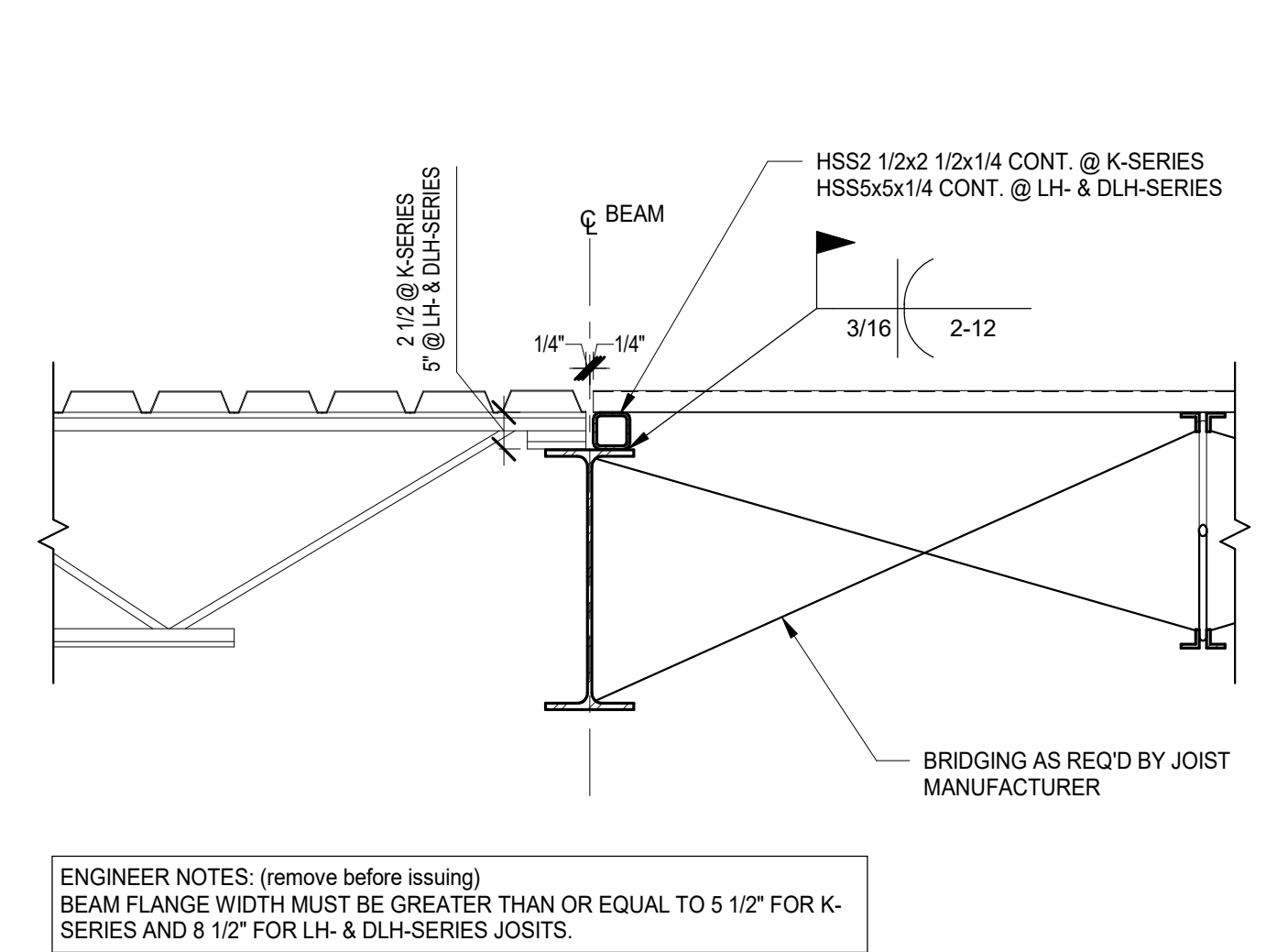
4 TYPICAL BEAM-TO-BEAM SHEAR SPLICE
N.T.S.



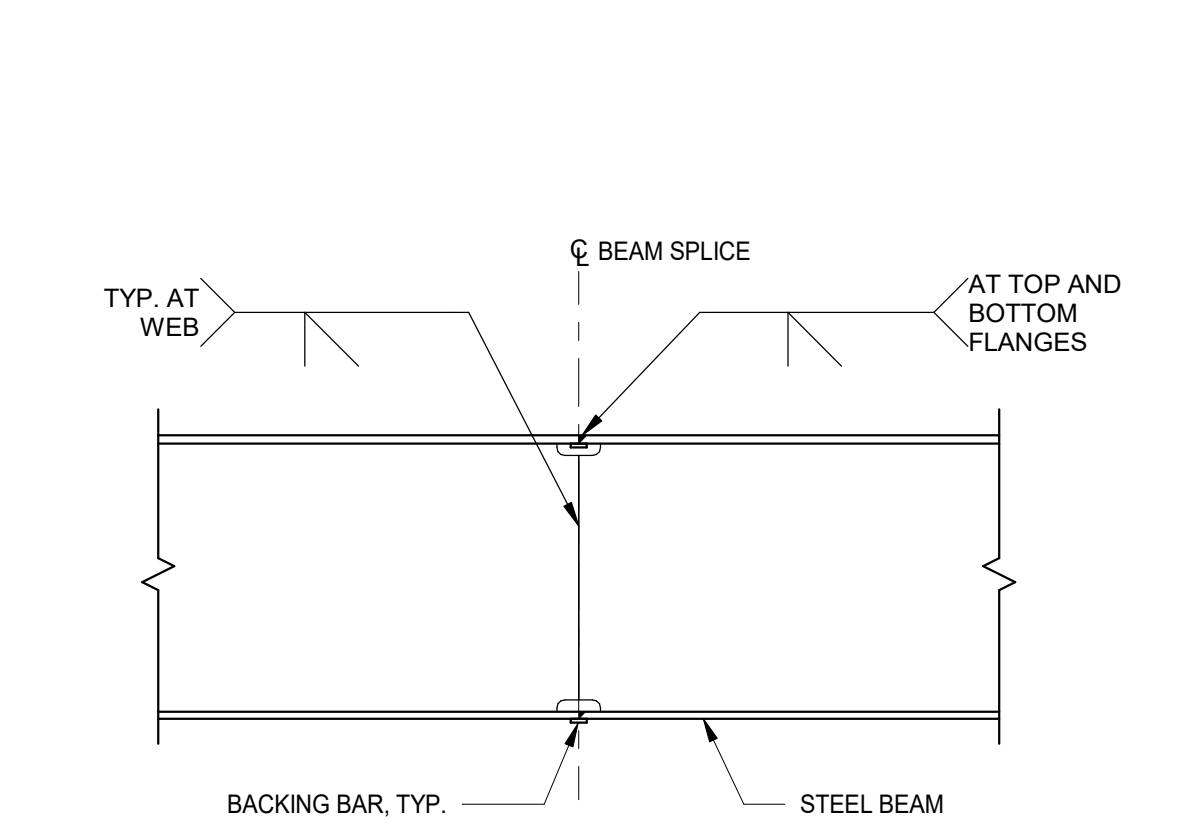
1 TYPICAL BEAM-TO-CMU WALL BEARING DETAIL
N.T.S.



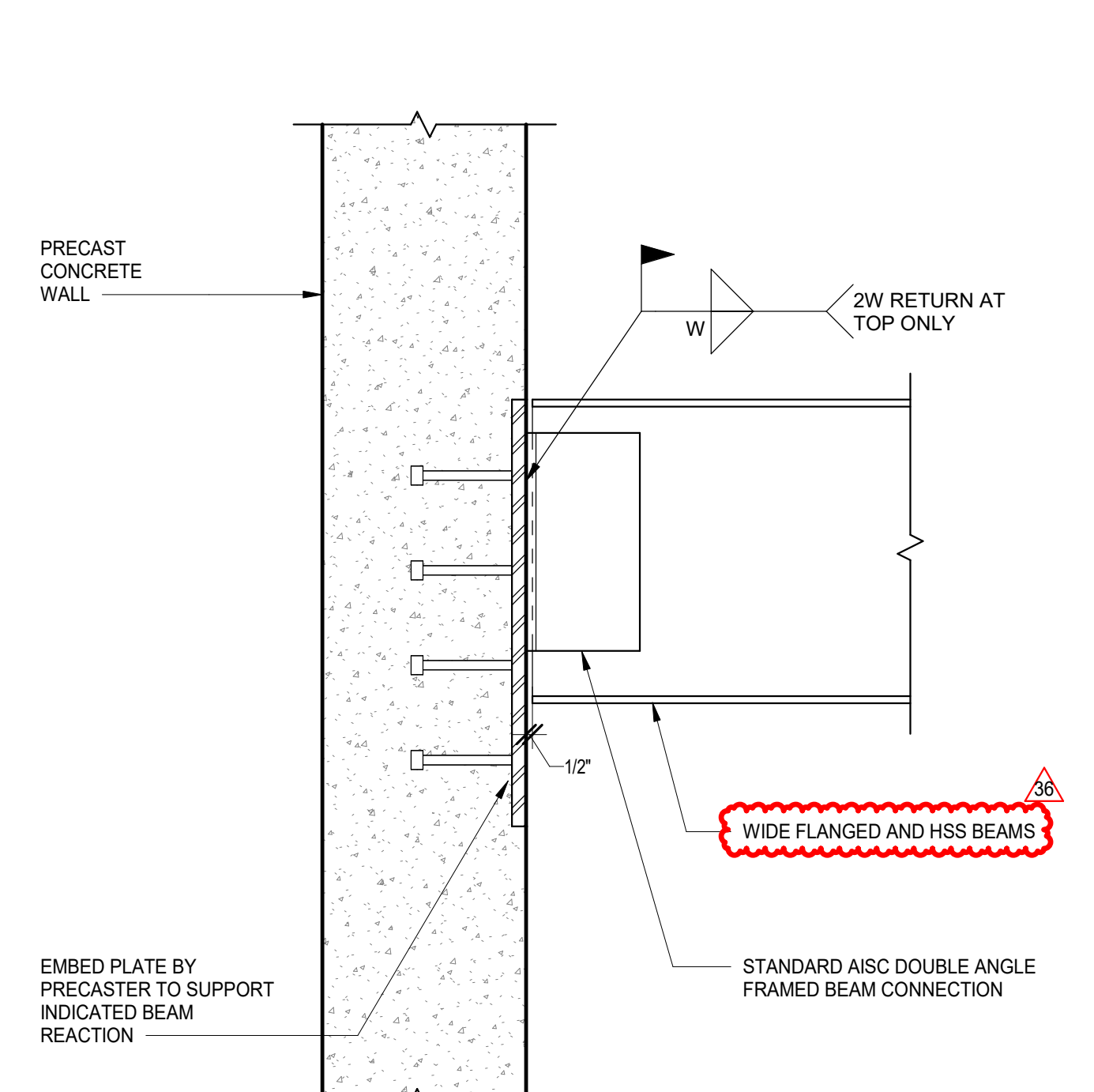
19 TYPICAL JOIST-TO-TOP OF COLUMN BEARING DETAIL (ONE SIDE OVER WF-FLANGE)
N.T.S.



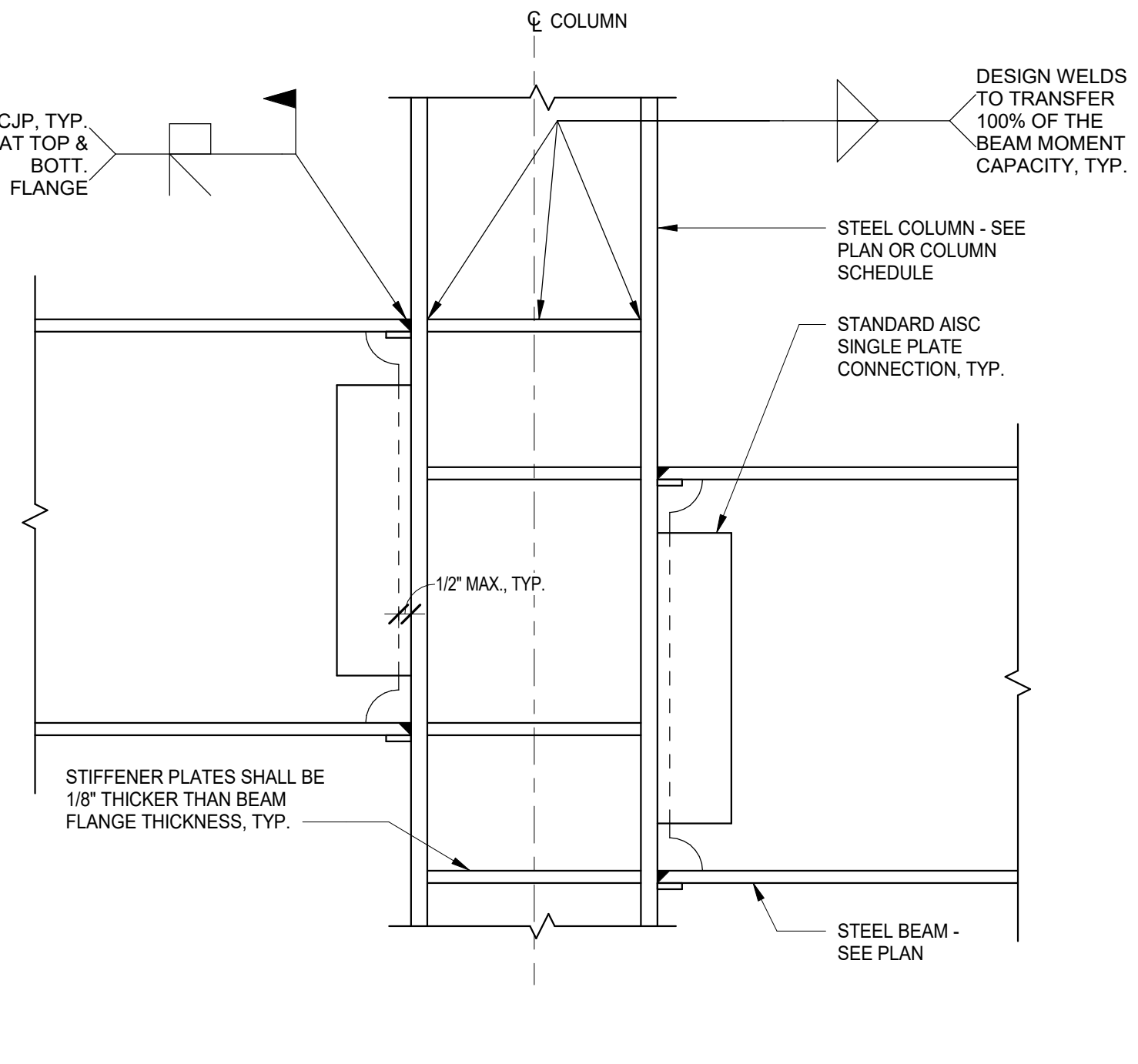
14 TYPICAL DECK DIRECTION CHANGE DETAIL
N.T.S.



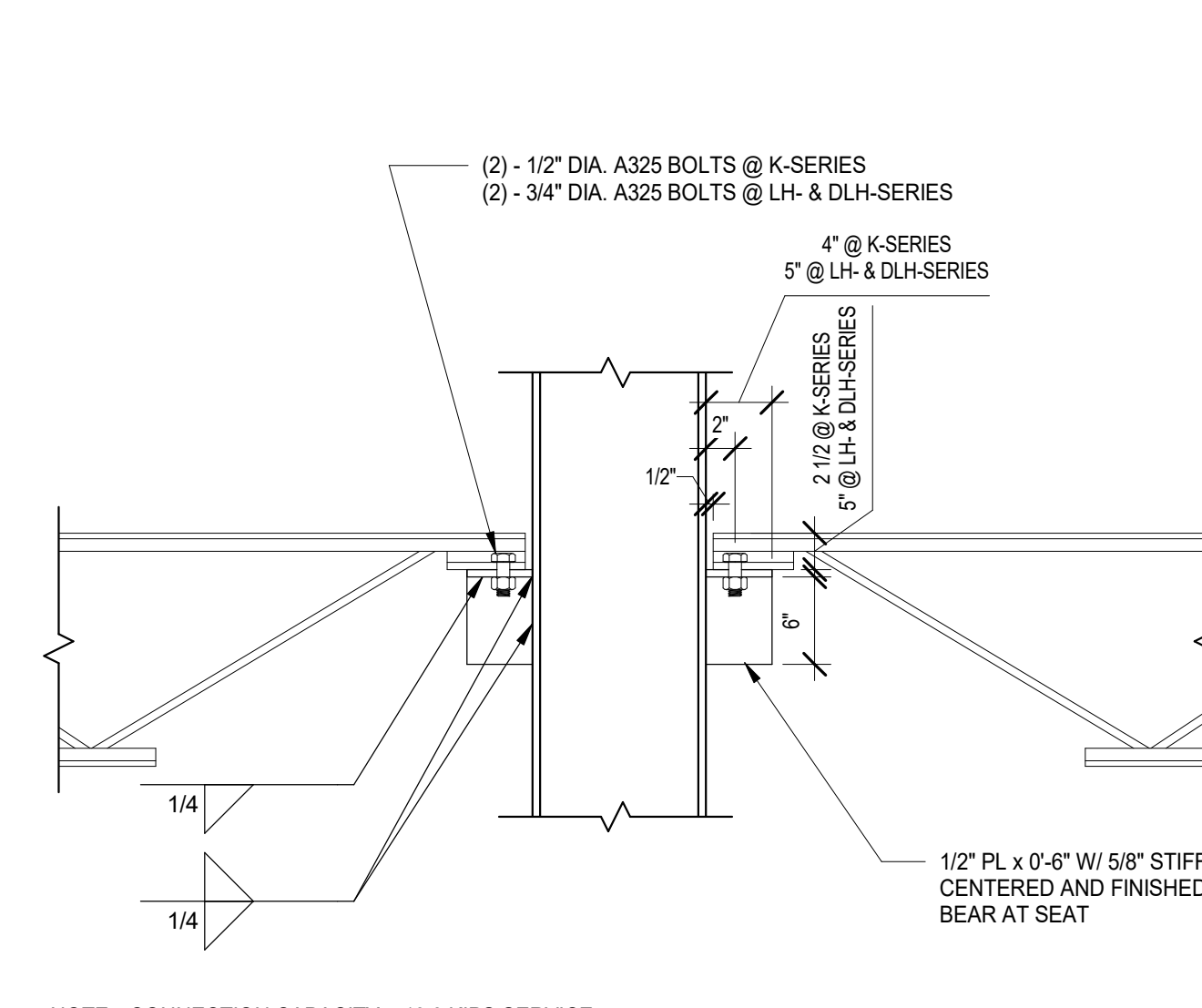
9 TYPICAL BEAM-TO-BEAM MOMENT SPLICE - SHOP WELDED
N.T.S.



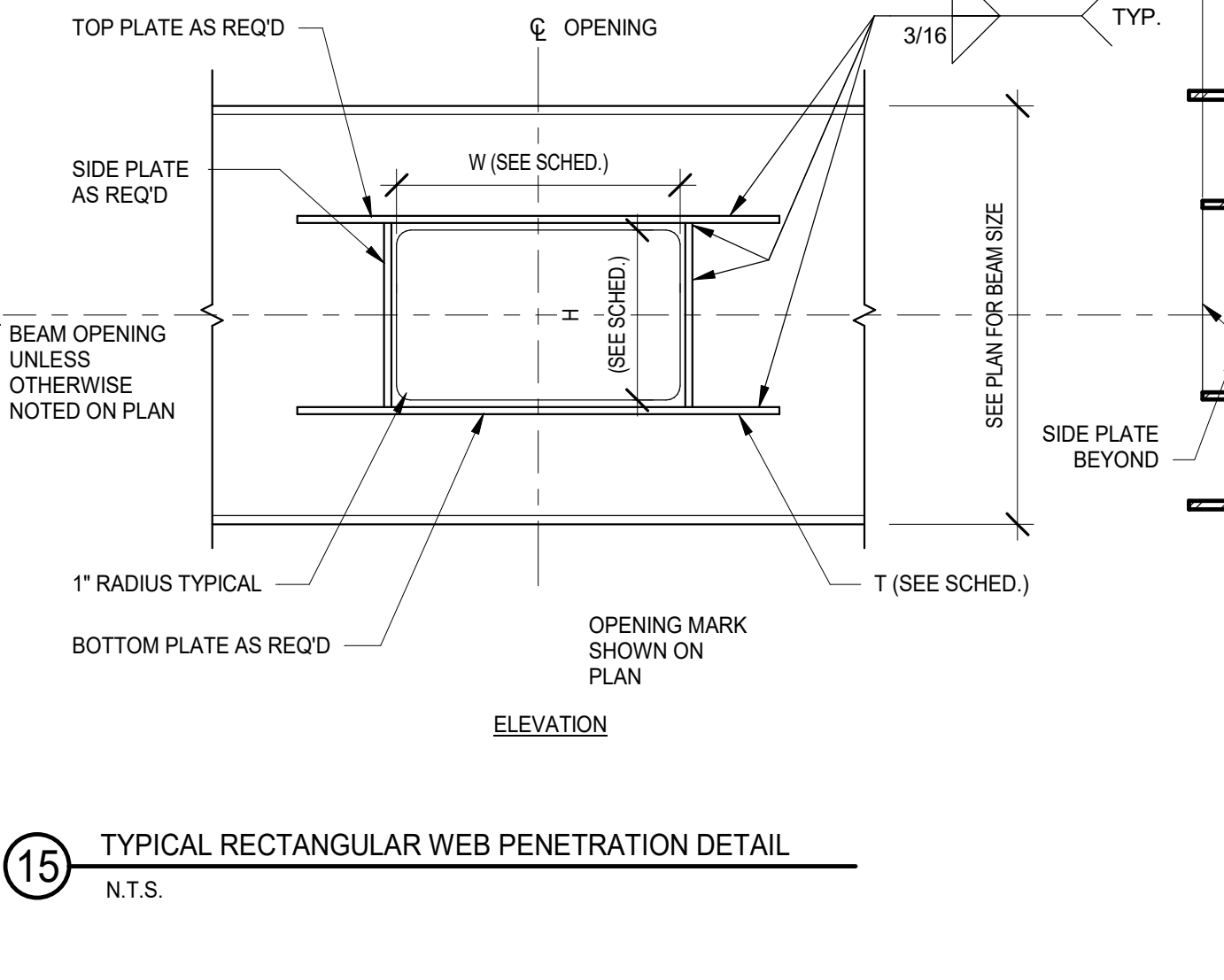
5 TYPICAL BEAM-TO-PRECAST CONCRETE WALL CONNECTION DETAIL
N.T.S.



2 TYPICAL BEAM-TO-COLUMN MOMENT CONNECTION AT VARIABLE DEPTH BEAMS - SHOP FABRICATED
N.T.S.



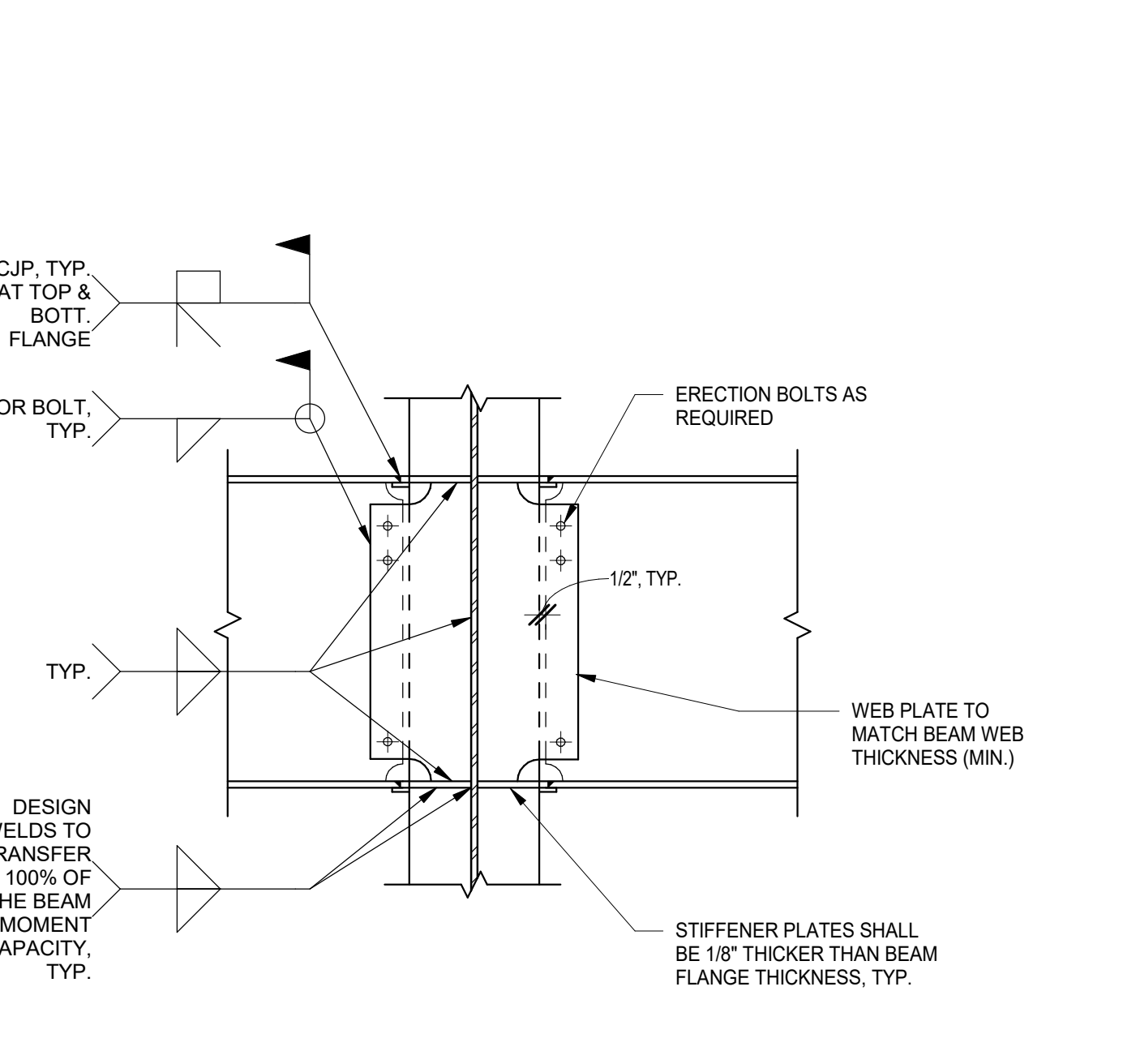
20 TYPICAL JOIST-TO-COLUMN BEARING DETAIL (COLUMN FLANGE)
N.T.S.



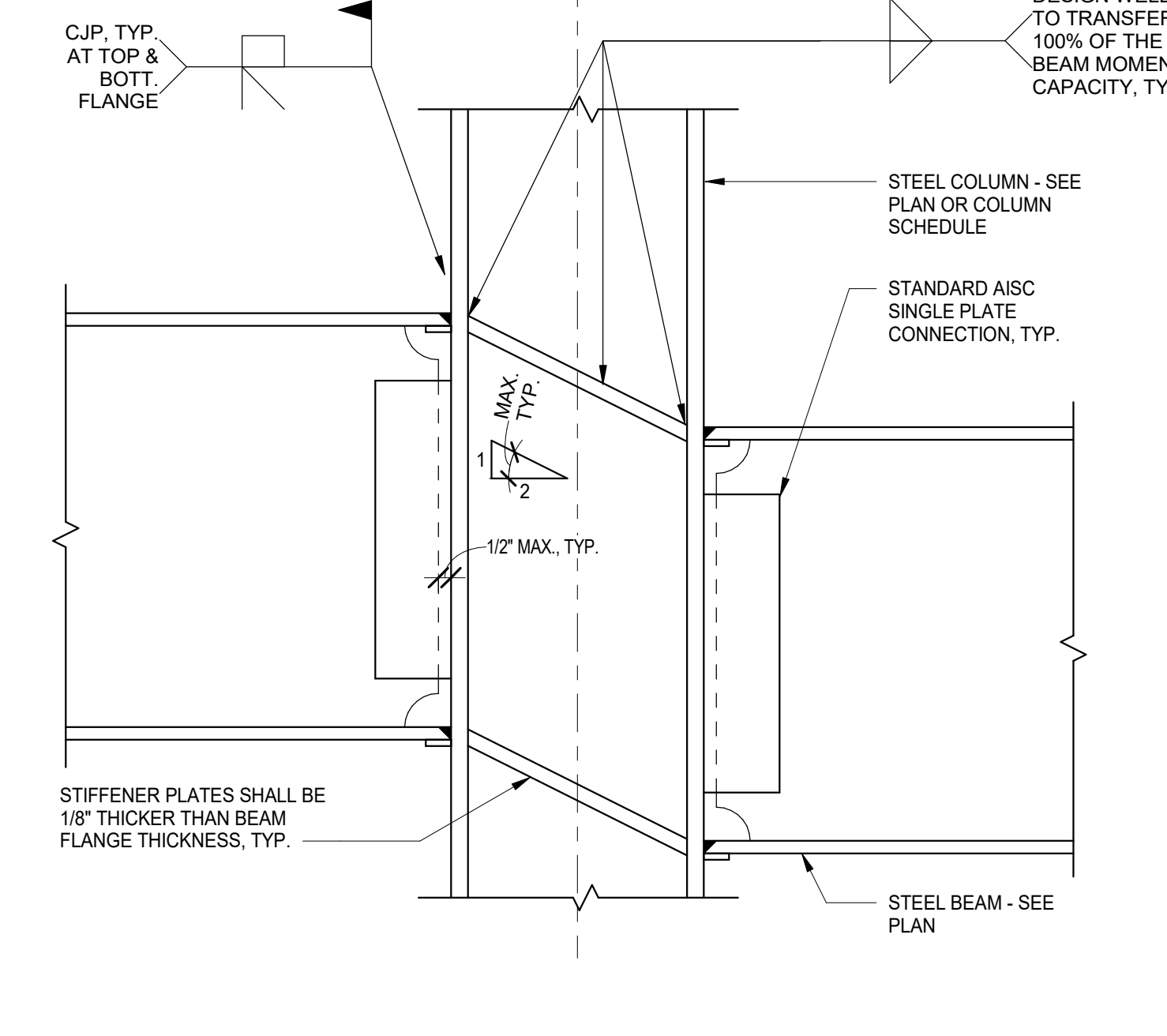
15 TYPICAL RECTANGULAR WEB PENETRATION DETAIL
N.T.S.

RECT. WEB PENETRATION SCHED.					
MARK	W x H (IN.)	LENGTH OF TOP AND BOTTOM PLATES (EA. SIDE)	T (IN.)	X (IN.)	REMARKS
1	18 x 14	42"	3/8	9	CENTER ON BEAM WEB DEPTH
2	20 x 14	50"	3/8	9	CENTER ON BEAM WEB DEPTH

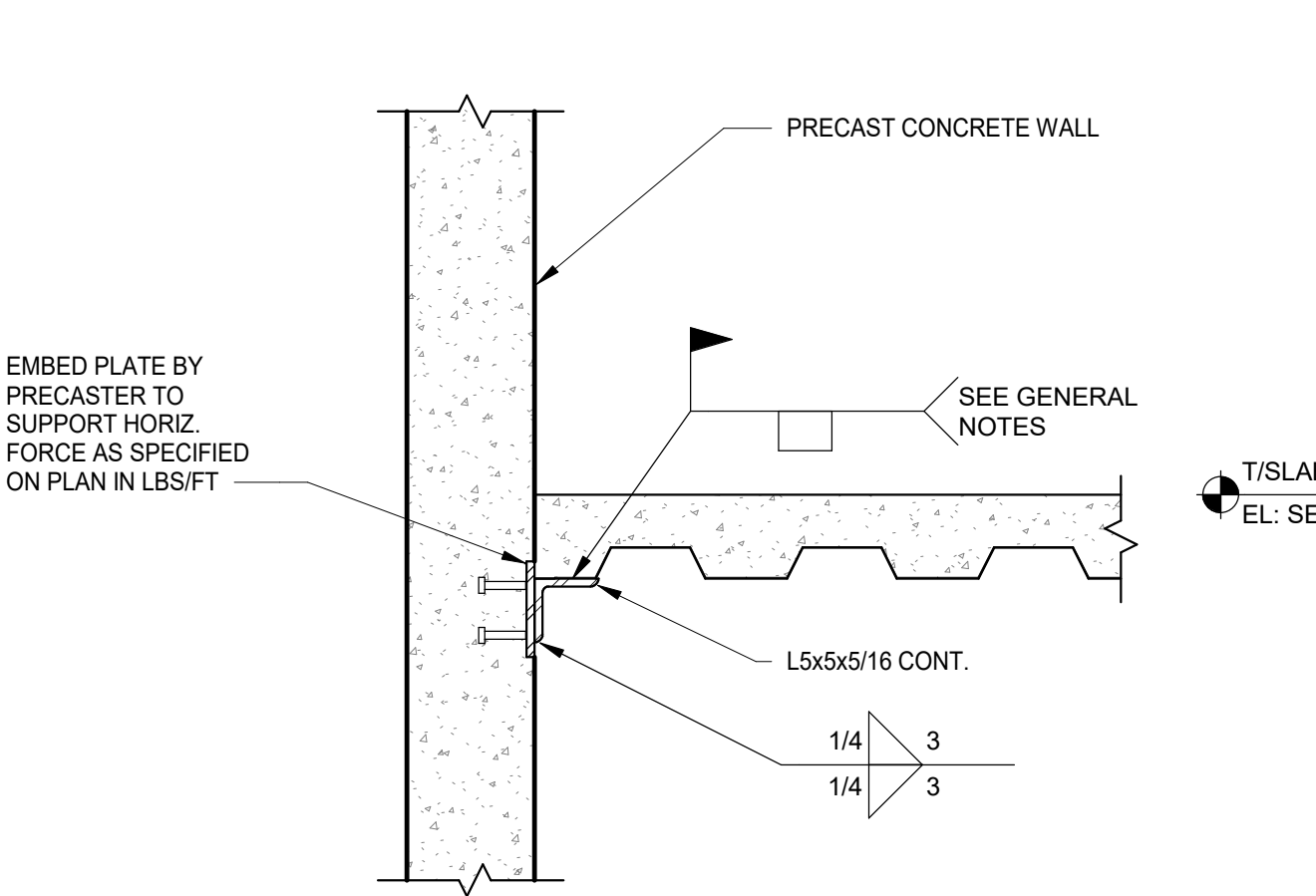
10 RECTANGULAR WEB PENETRATION SCHEDULE
N.T.S.



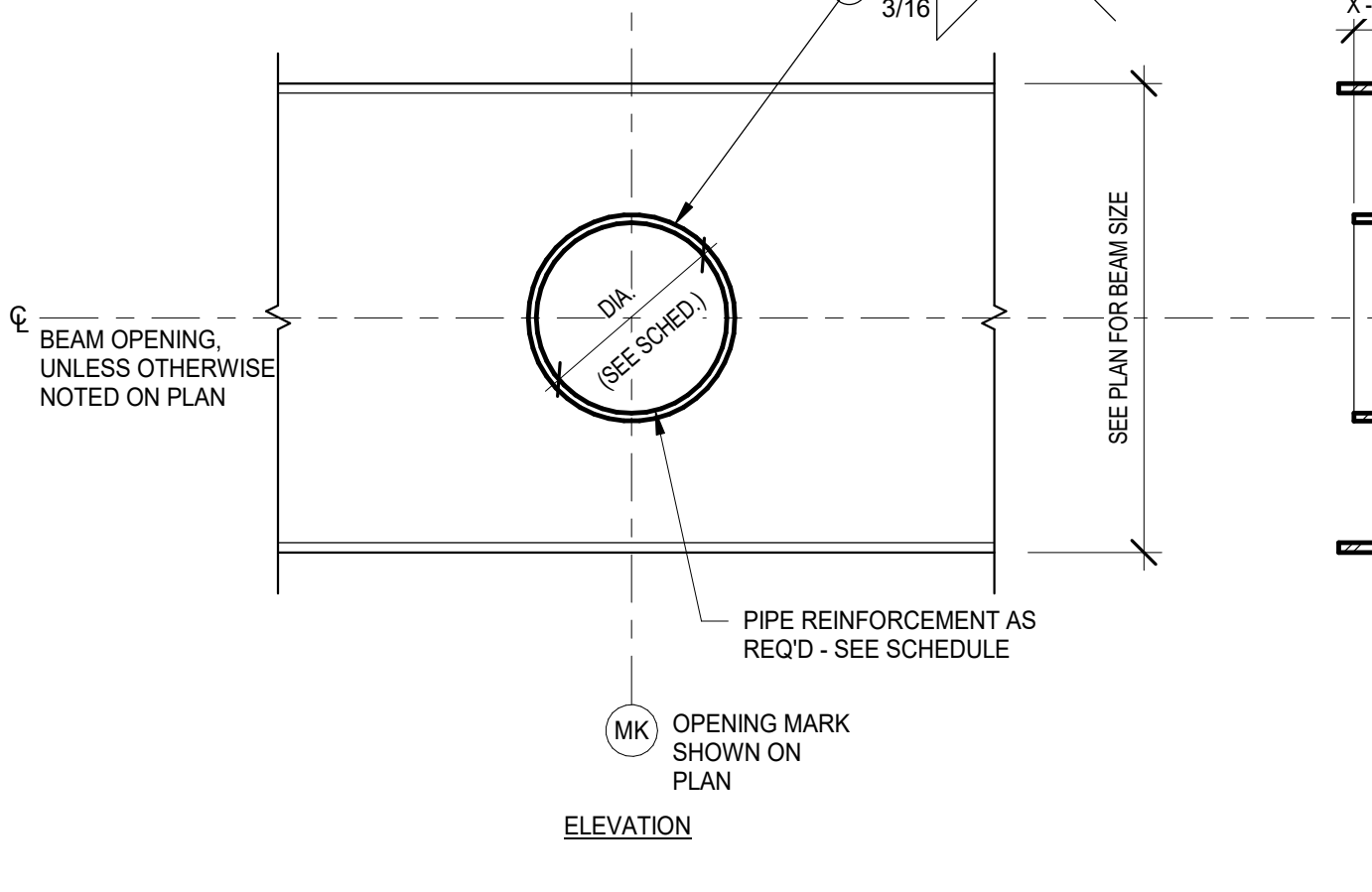
6 TYPICAL BEAM-TO-COLUMN MOMENT CONNECTION DETAIL (WEB)
N.T.S.



3 TYPICAL BEAM-TO-COLUMN MOMENT CONNECTION AT VARIABLE DEPTH BEAMS - SHOP FABRICATED
N.T.S.



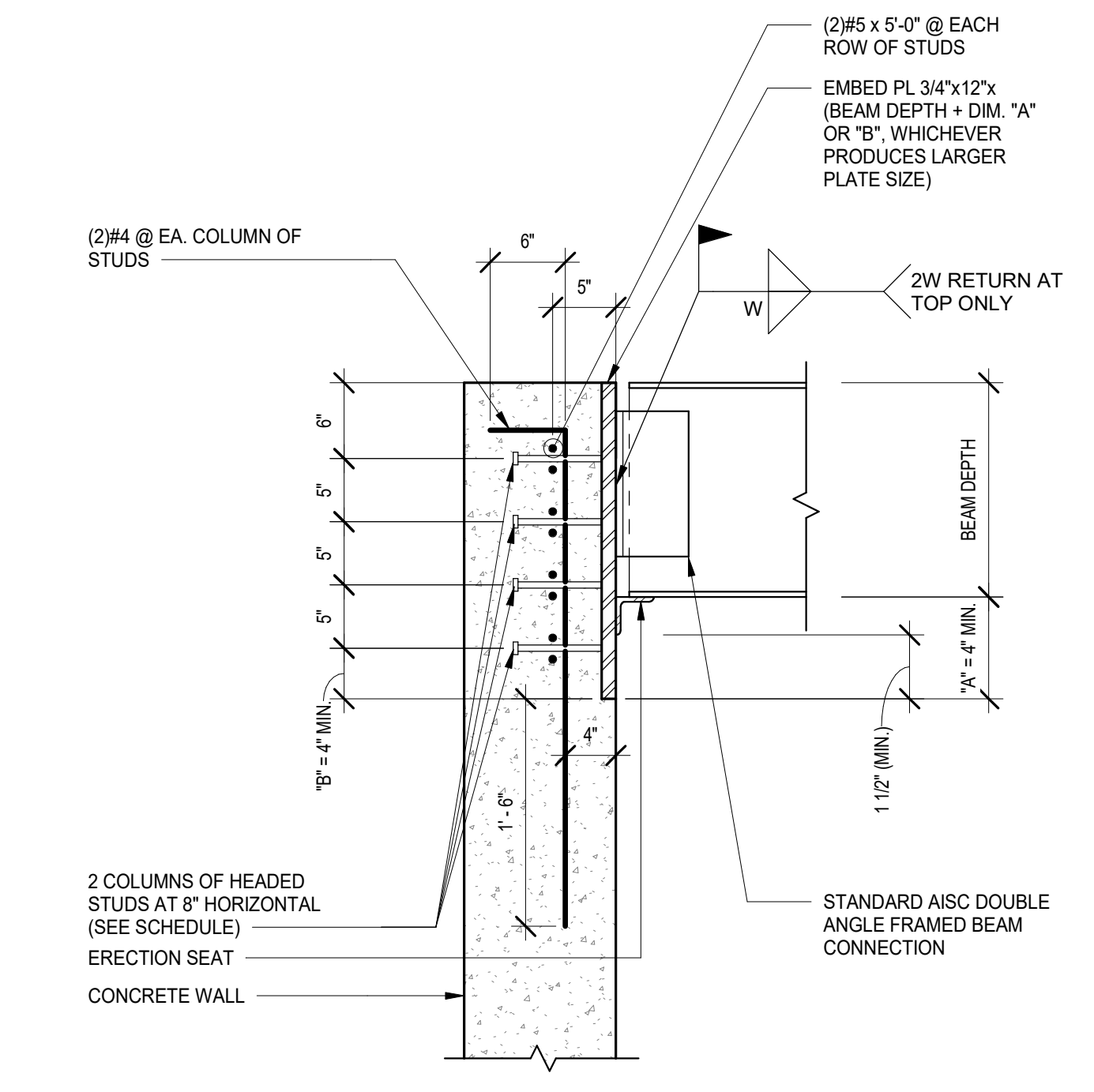
21 TYPICAL SLAB-TO-PRECAST CONCRETE WALL DETAIL
N.T.S.



16 TYPICAL CIRCULAR WEB PENETRATION DETAIL
N.T.S.

CIRCULAR WEB PENETRATION SCHED.				
MARK	PENETRATION DIAMETER (IN.)	PIPE SIZE	"X" (IN.)	REMARKS
1	- X -	-	-	-

11 CIRCULAR WEB PENETRATION SCHEDULE
N.T.S.



7 TYPICAL BEAM-TO-CONCRETE WALL CONNECTION DETAIL
N.T.S.

BEAM DEPTH	HEADED STUDS			ULTIMATE CAPACITY (WITH HEADED STUD SHEAR REINFORCEMENT)
	TOTAL NUMBER	SIZE	LENGTH	
10" OR LESS	4	7/8"	0'-7"	33k
12"	6	7/8"	0'-7"	45k
14" - 16"	8	7/8"	0'-7"	57k
18" - 21"	10	7/8"	0'-7"	69k
24" - 27"	12	7/8"	0'-7"	80k

EMBED PLATE SCHEDULE
NOTE:
1. PROVIDE EMBEDDED PLATE FOR BEAM SIZE INDICATED. IF BEAM REACTION PER DRAWINGS EXCEEDS THE MAXIMUM ALLOWABLE END REACTION INDICATED, PROVIDE EMBEDDED PLATE WITH END REACTION IN EXCESS OF BEAM REACTION



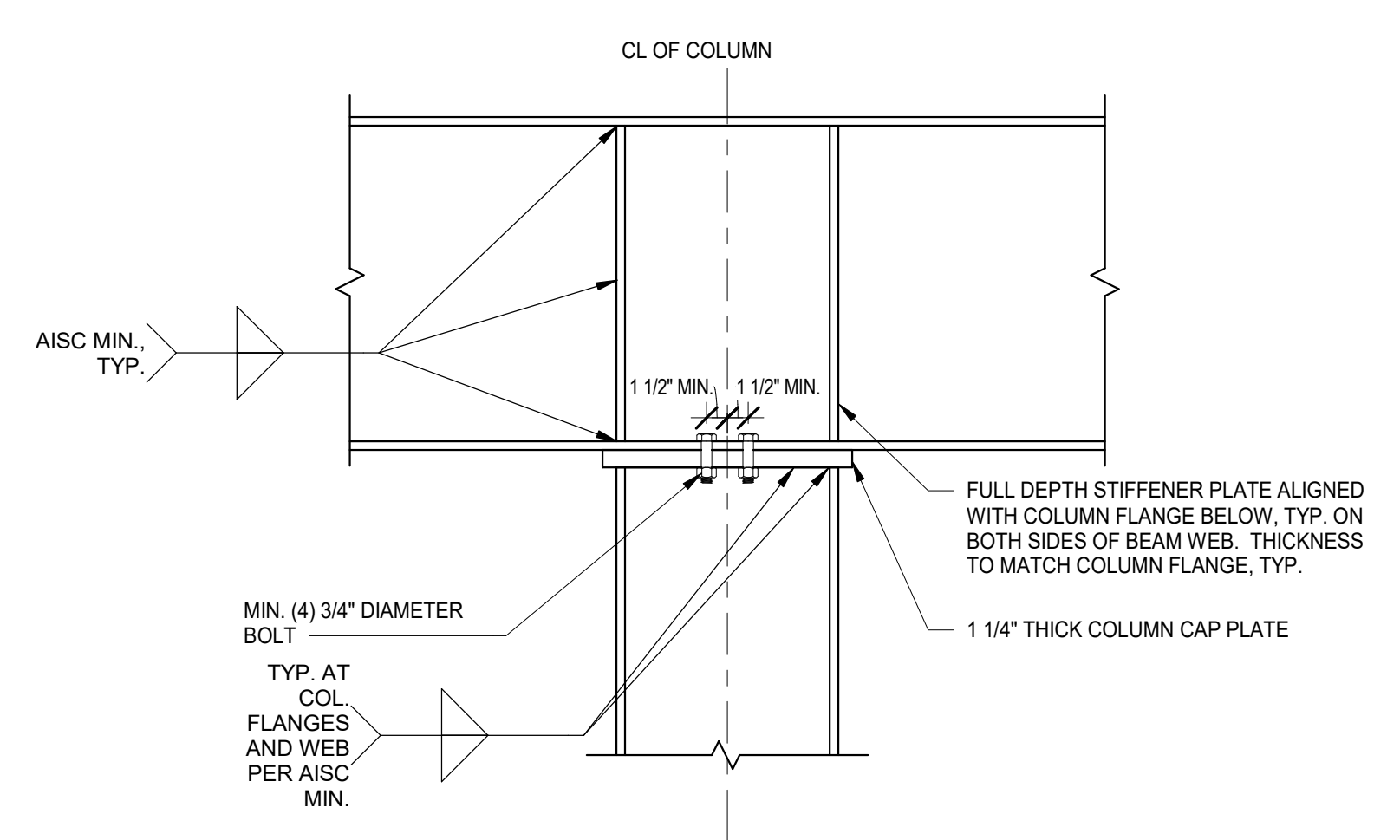
17 TYPICAL JOIST-TO-BEAM BEARING DETAIL
N.T.S.



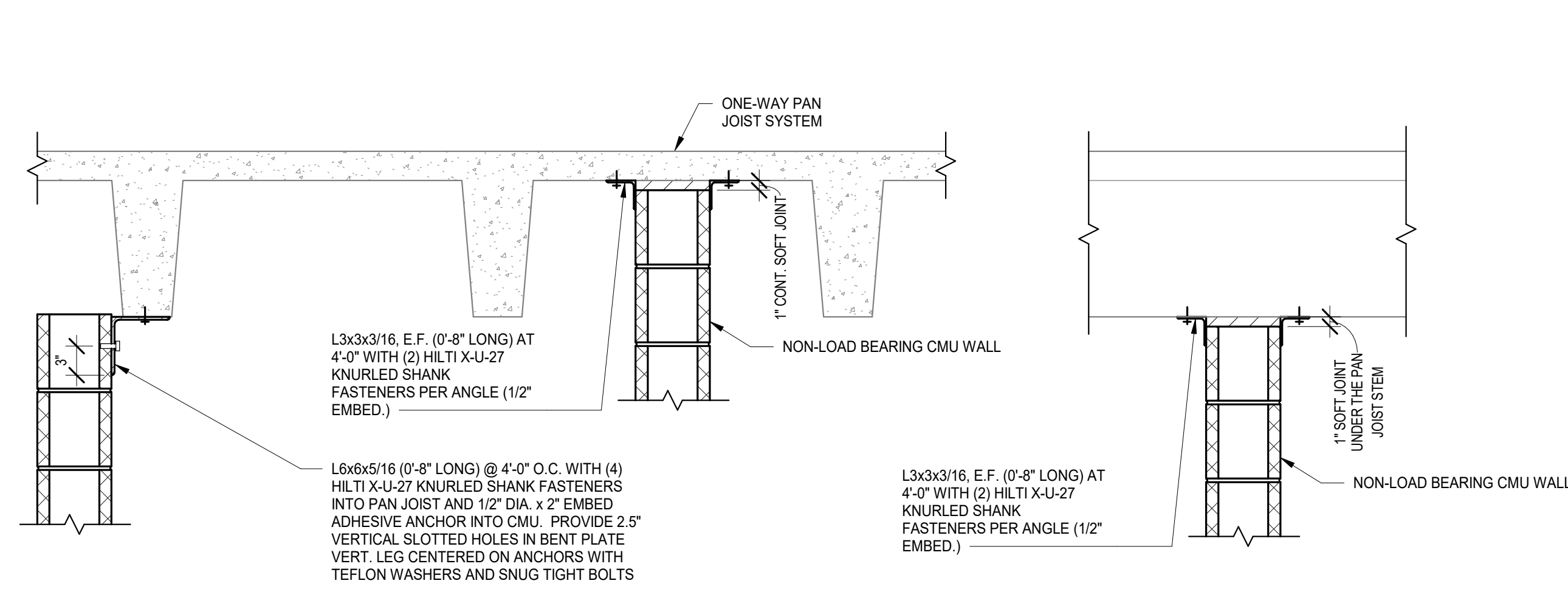
12 TYPICAL ELEVATOR SILL DETAIL
N.T.S.

12/20/19 8:46:10 AM
 C:\Users\jacob\Documents\115274-42_DGS_Spec_2019_Central_ORBDC\4
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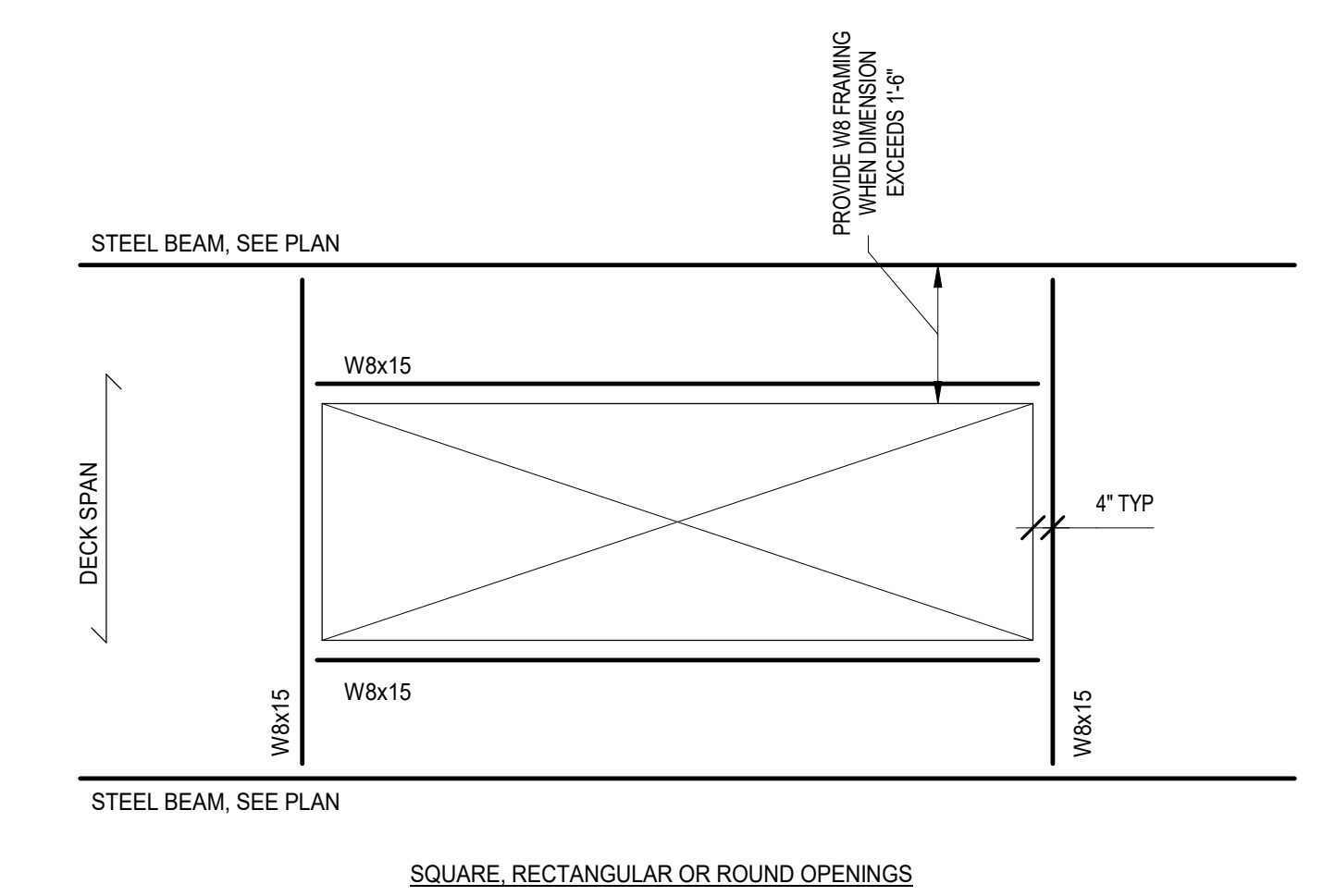
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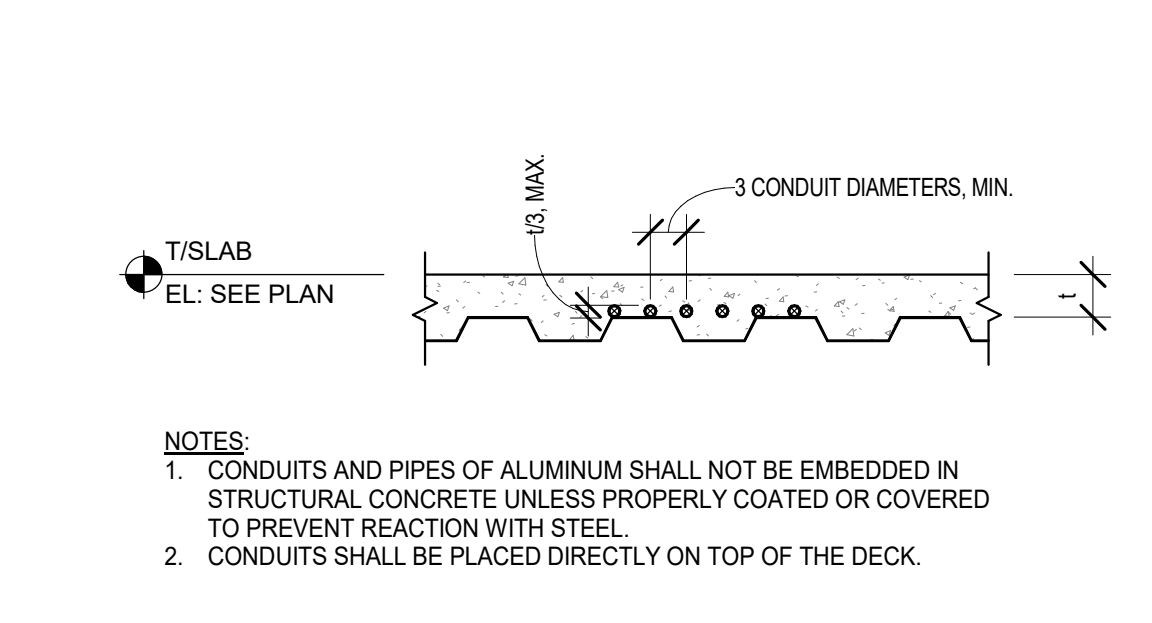
11 TYPICAL BEAM-OVER-WIDE FLANGE COLUMN BEARING DETAIL
N.T.S.



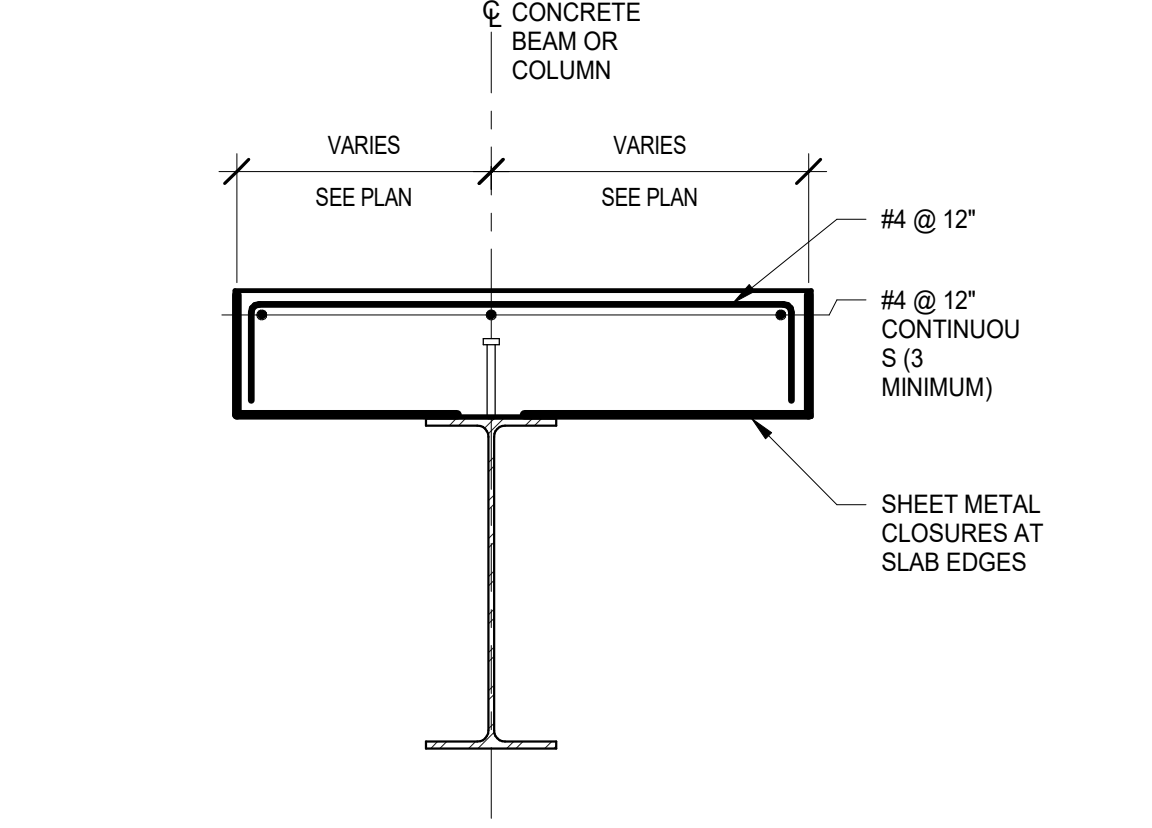
10 TYPICAL CMU LATERAL RESTRAINT DETAIL @ ONE-WAY CONCRETE PAN JOISTS
N.T.S.



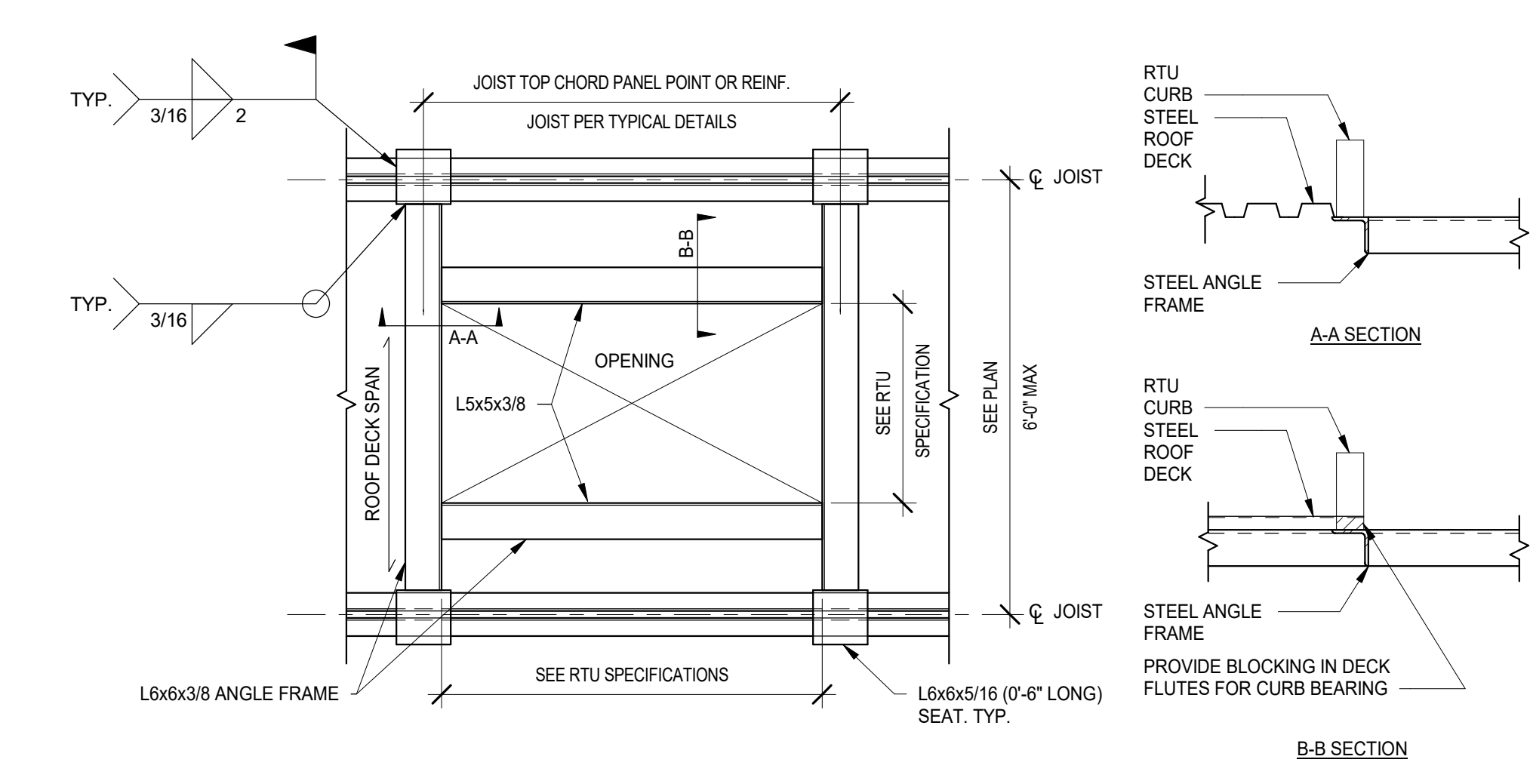
6 TYPICAL LONG SPAN STEEL ROOF DECK OPENING DETAIL
N.T.S.



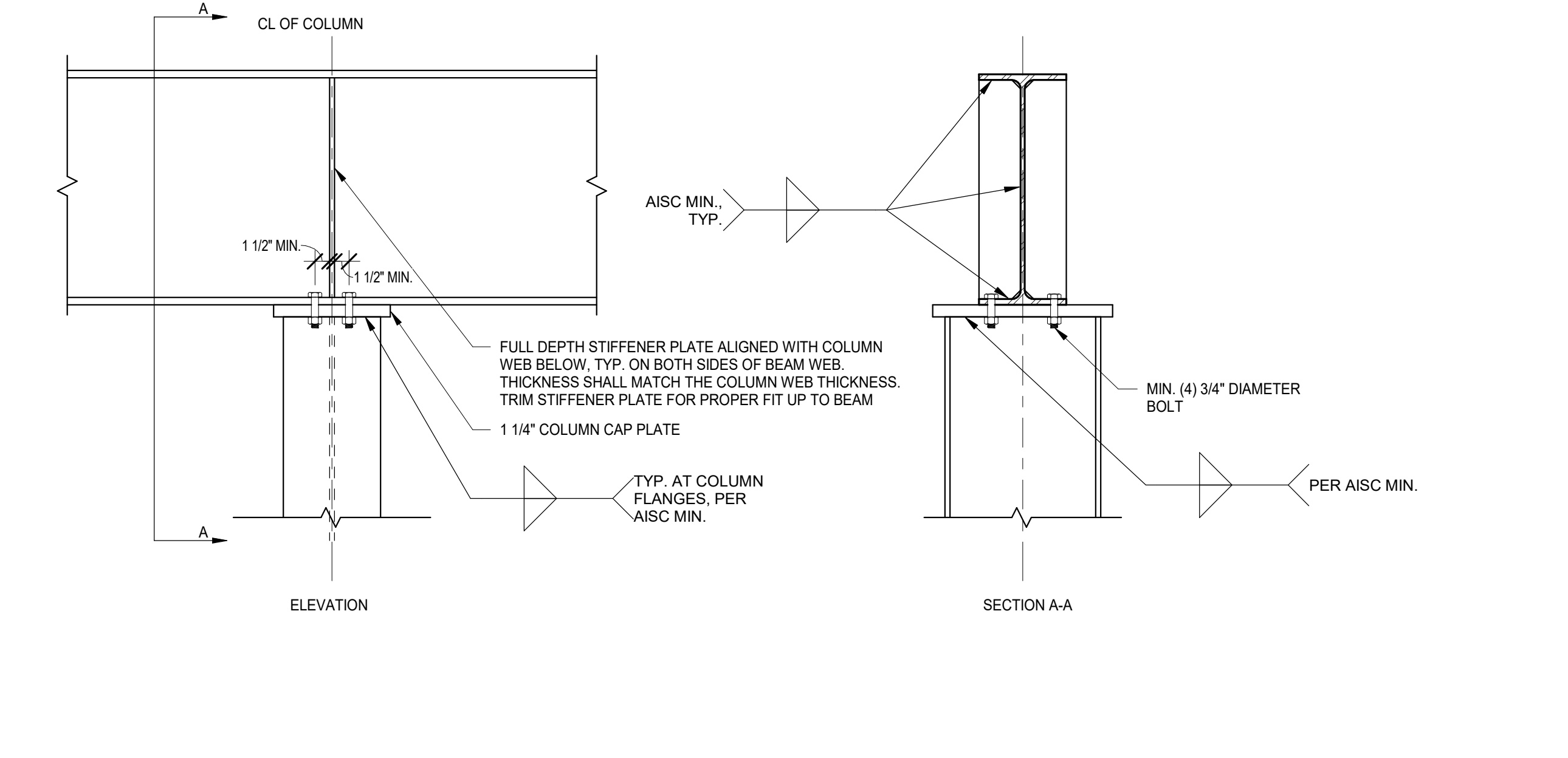
1 TYPICAL SLAB EMBEDDED ITEM DETAIL
N.T.S.



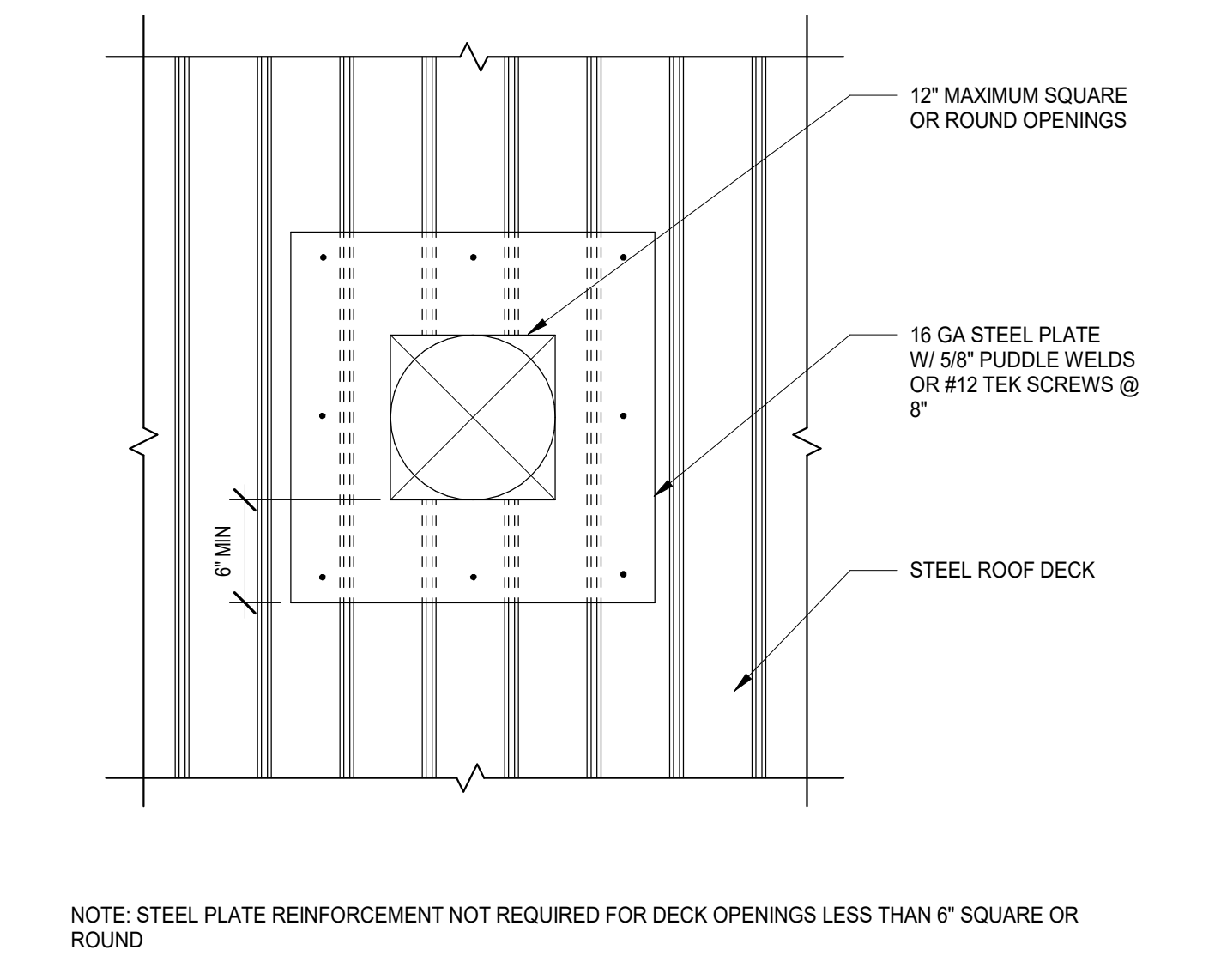
2 TYPICAL SLAB DETAIL BETWEEN OPENINGS
N.T.S.



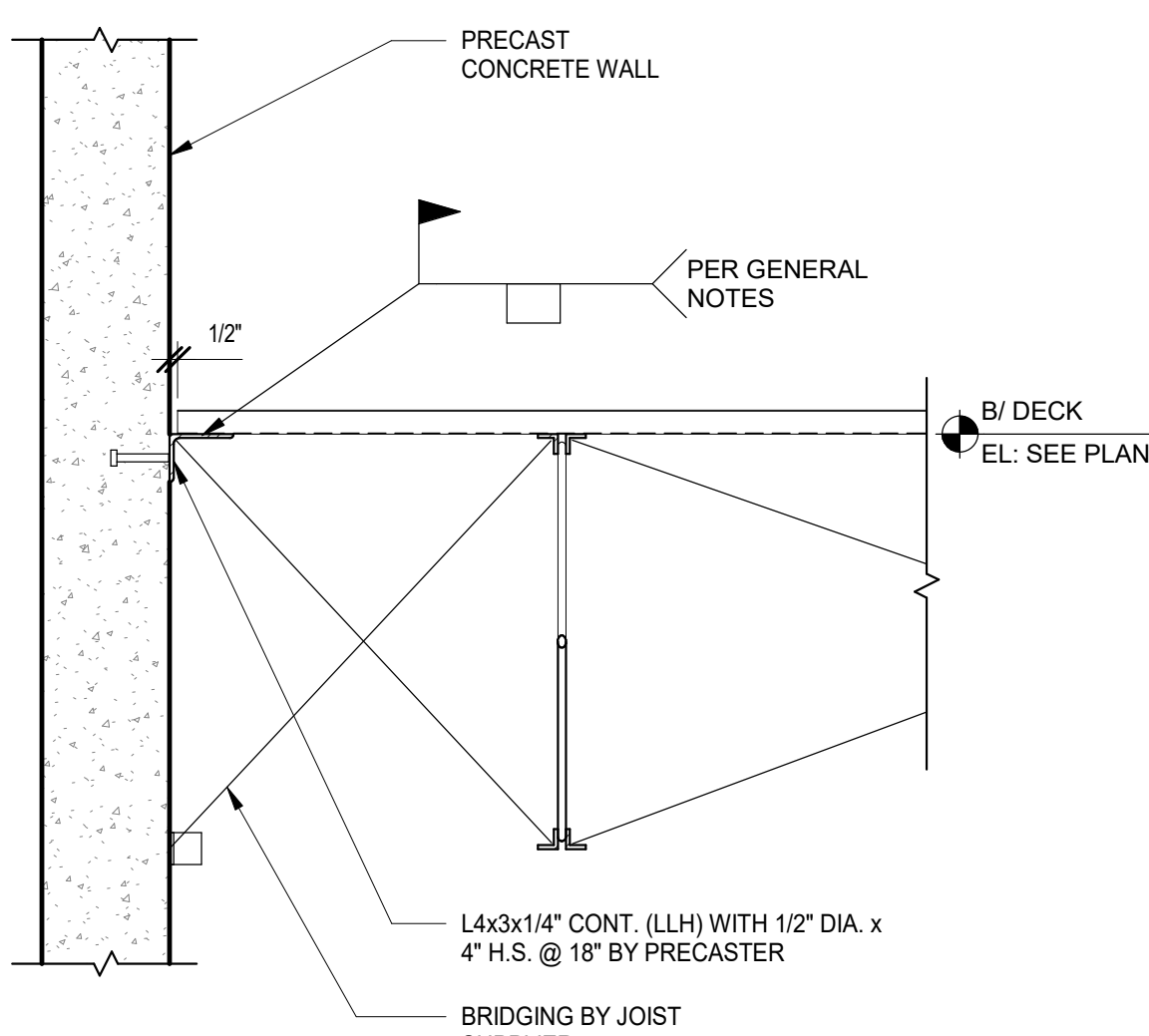
13 TYPICAL ROOF TOP UNIT SUPPORT DETAIL
N.T.S.



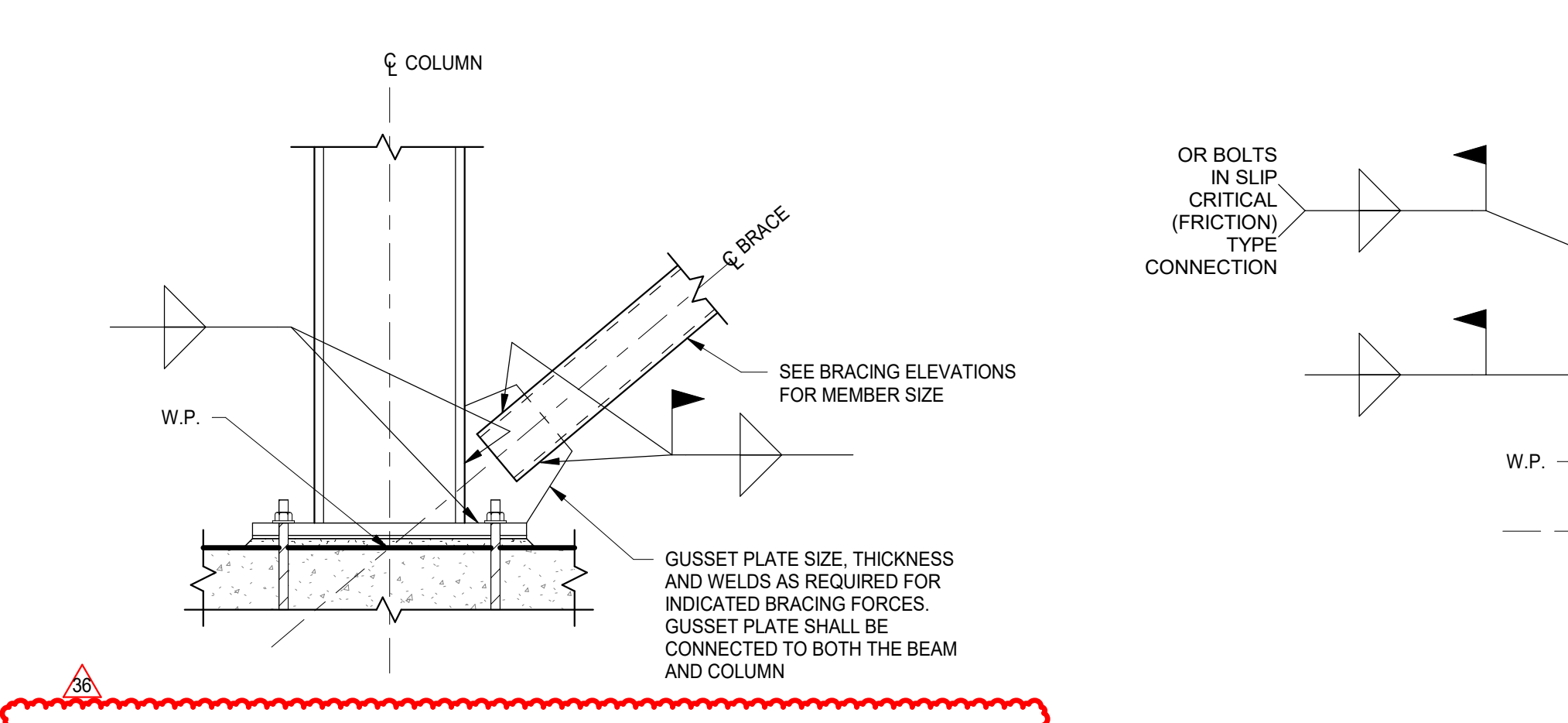
12 TYPICAL BEAM-OVER-WIDE FLANGE COLUMN BEARING DETAIL
N.T.S.



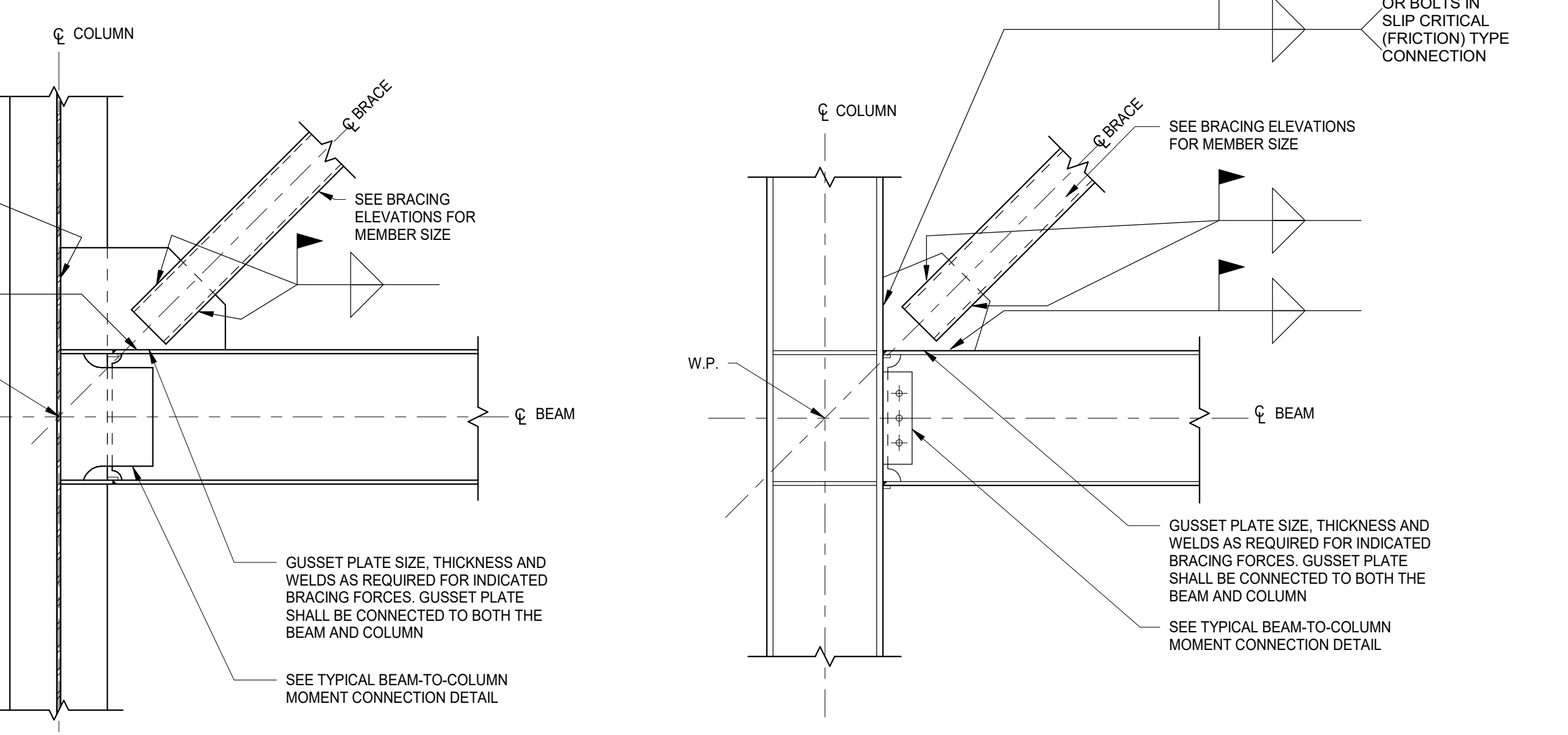
7 TYPICAL ROOF DECK OPENING DETAIL (<12\"/>



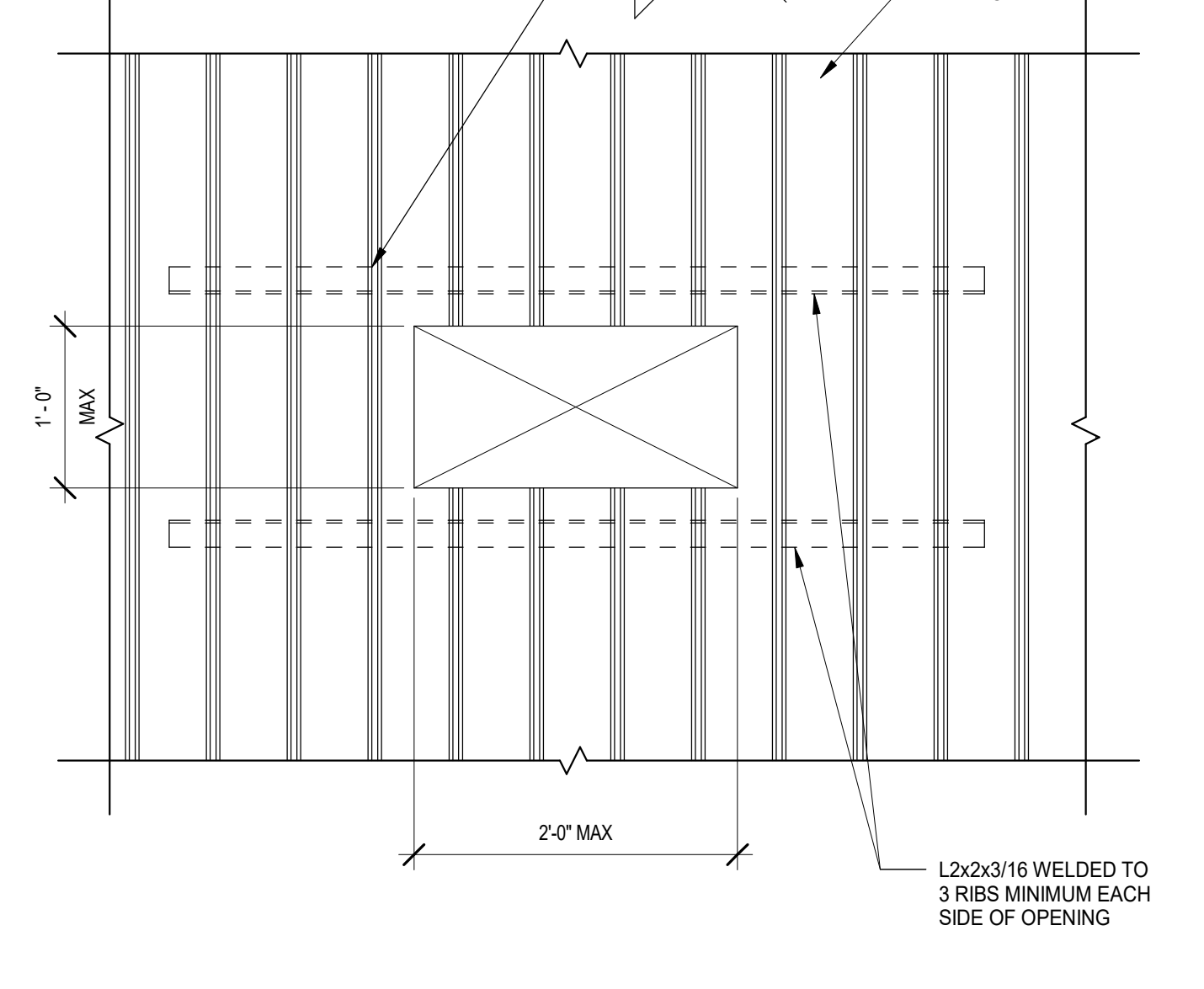
3 TYPICAL ROOF DECK-TO-PRECAST CONCRETE WALL BEARING DETAIL
N.T.S.



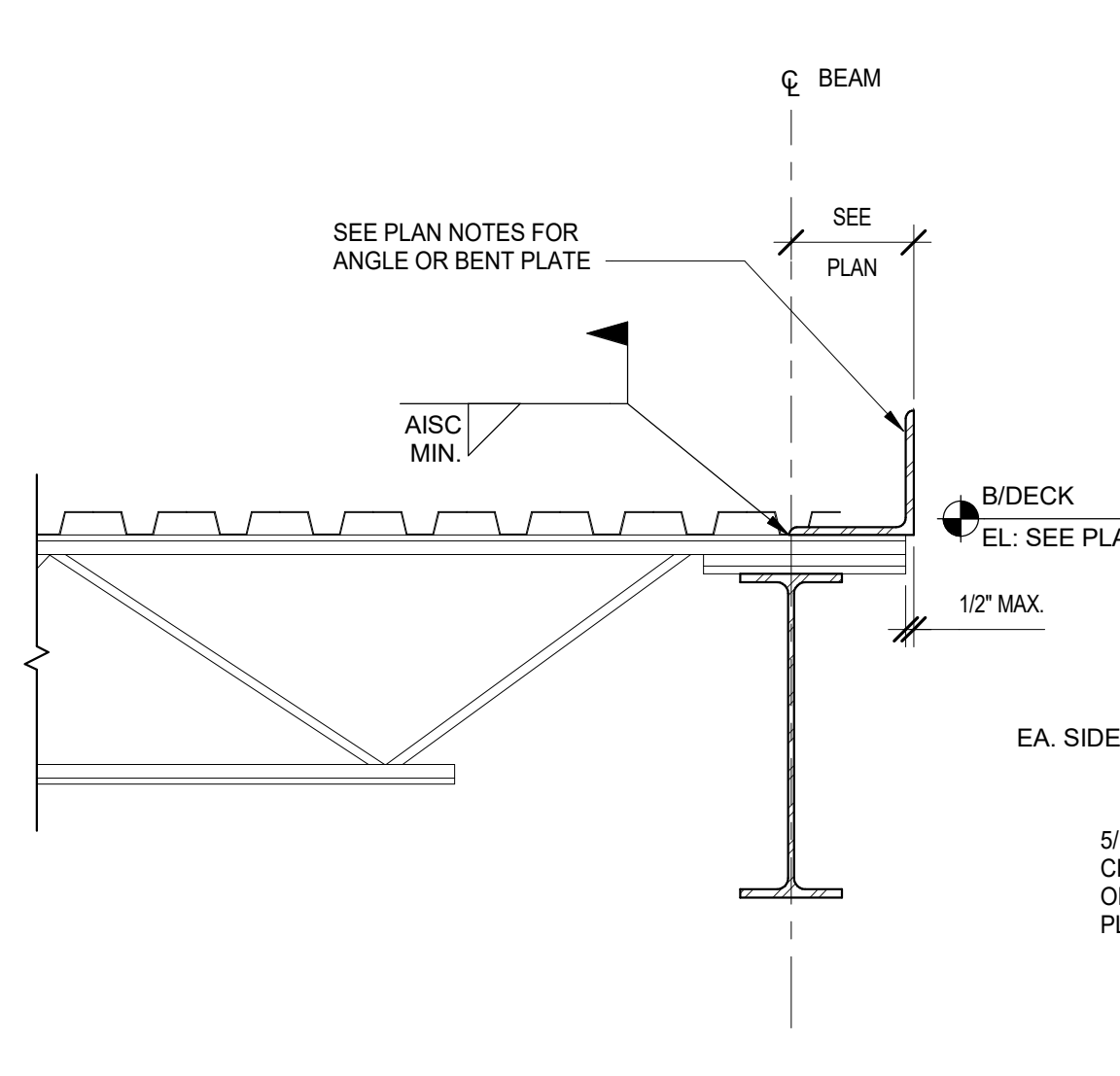
16 TYPICAL HSS BRACING CONNECTION DETAIL (FOUNDATION COLUMN FLANGE)
N.T.S.



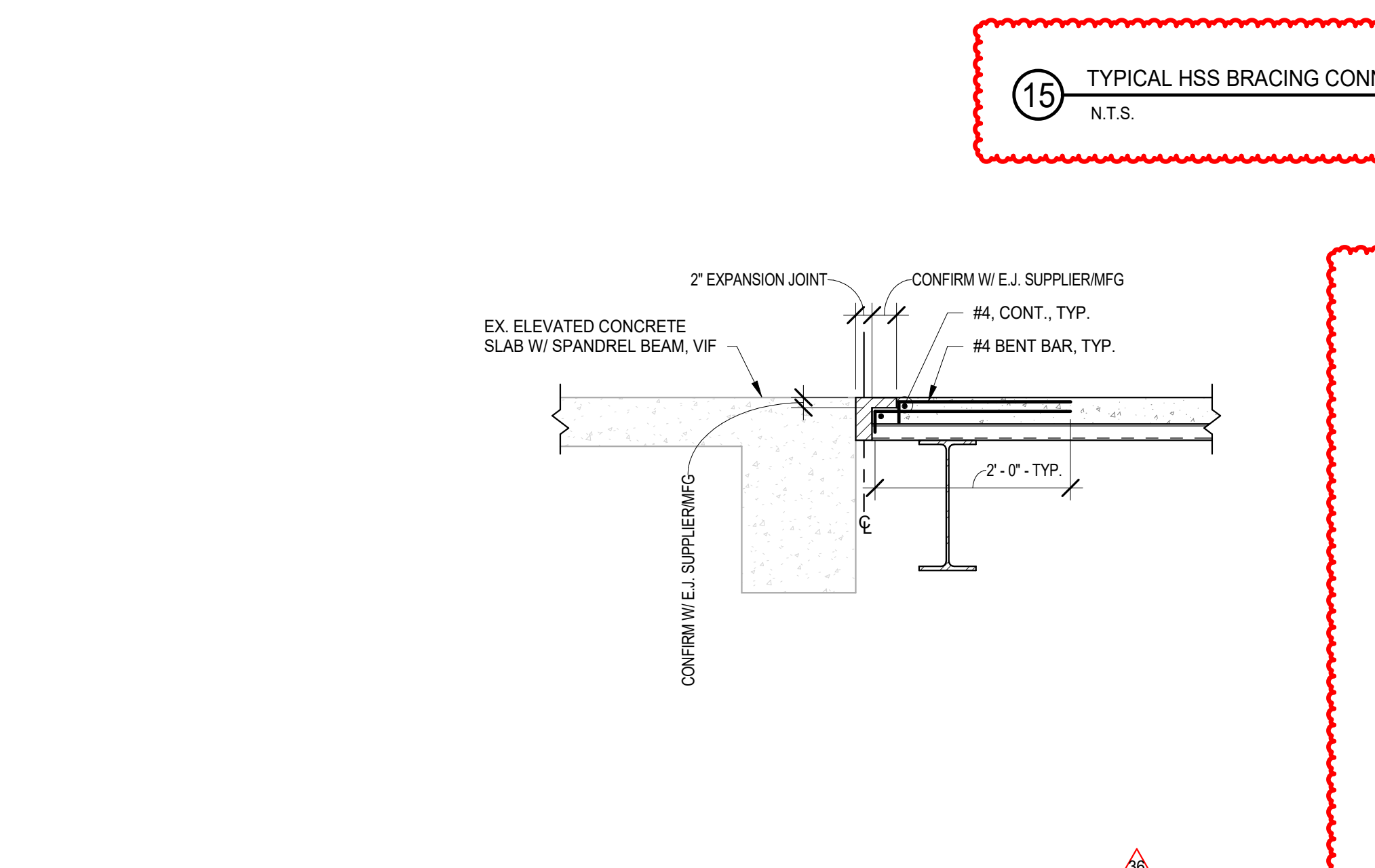
15 TYPICAL HSS BRACING CONNECTION DETAIL (COLUMN WEB)
N.T.S.



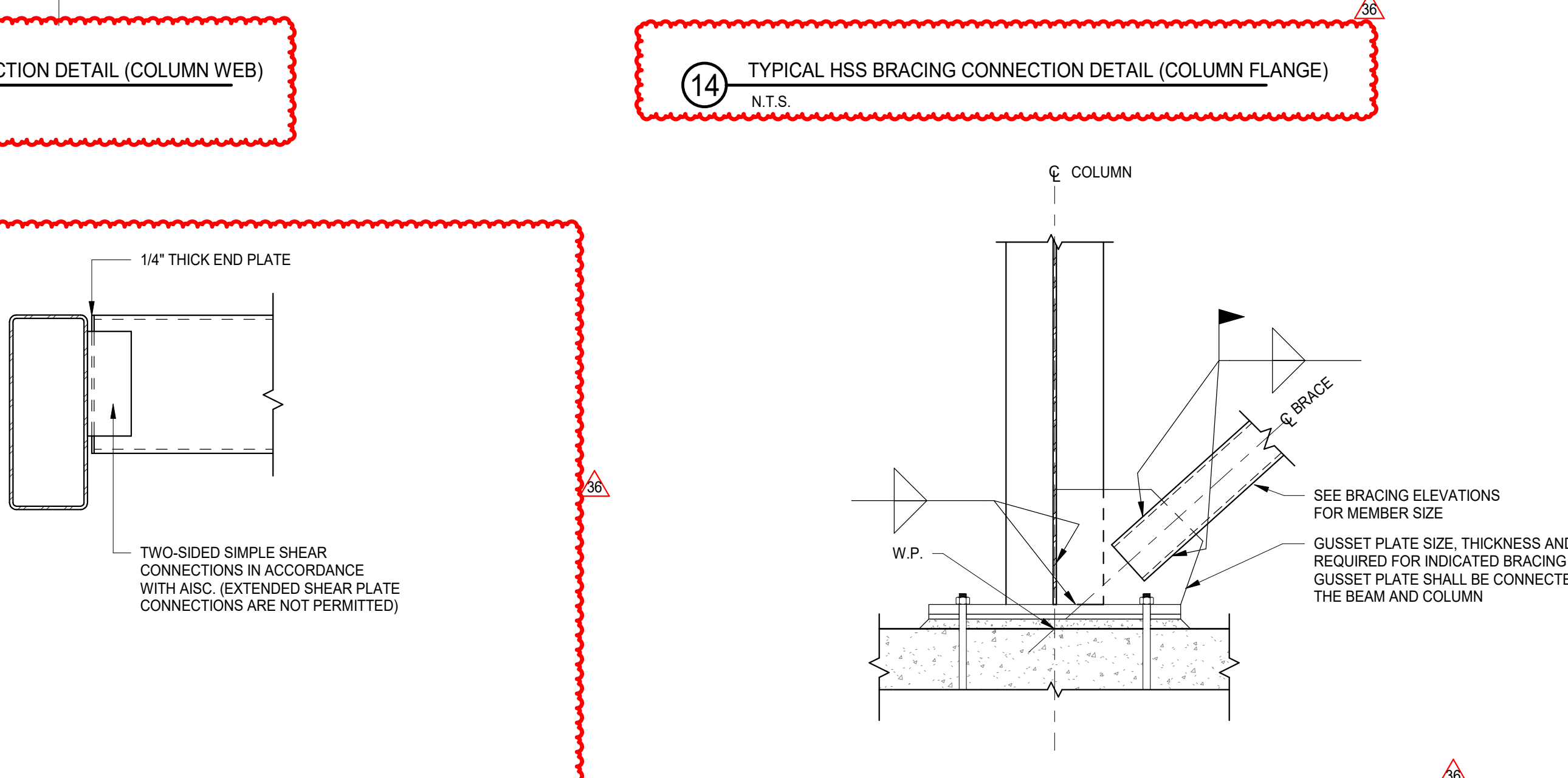
8 TYPICAL ROOF DECK OPENING DETAIL (12\"/>



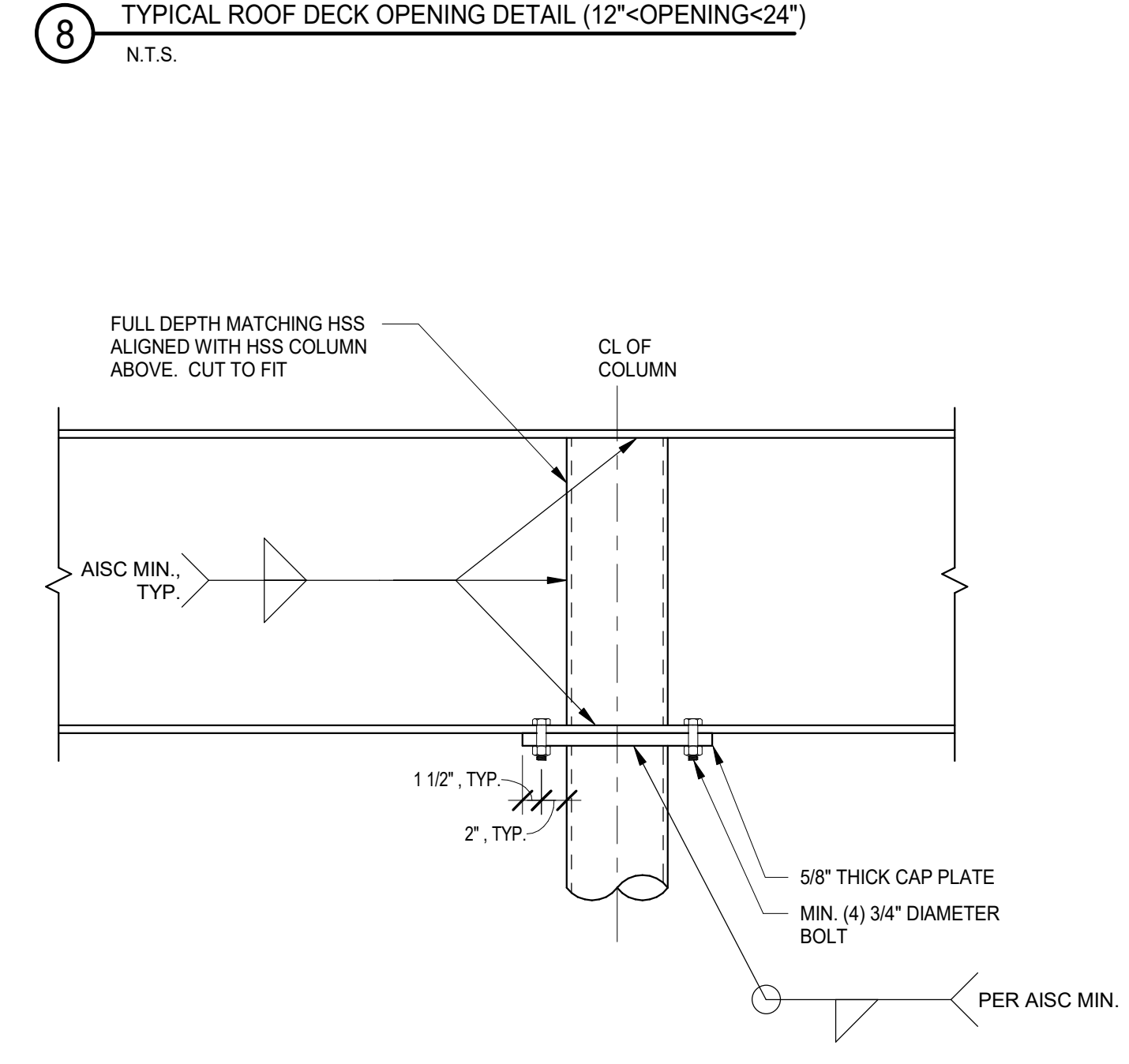
4 TYPICAL ROOF CLOSURE ANGLE DETAIL
N.T.S.



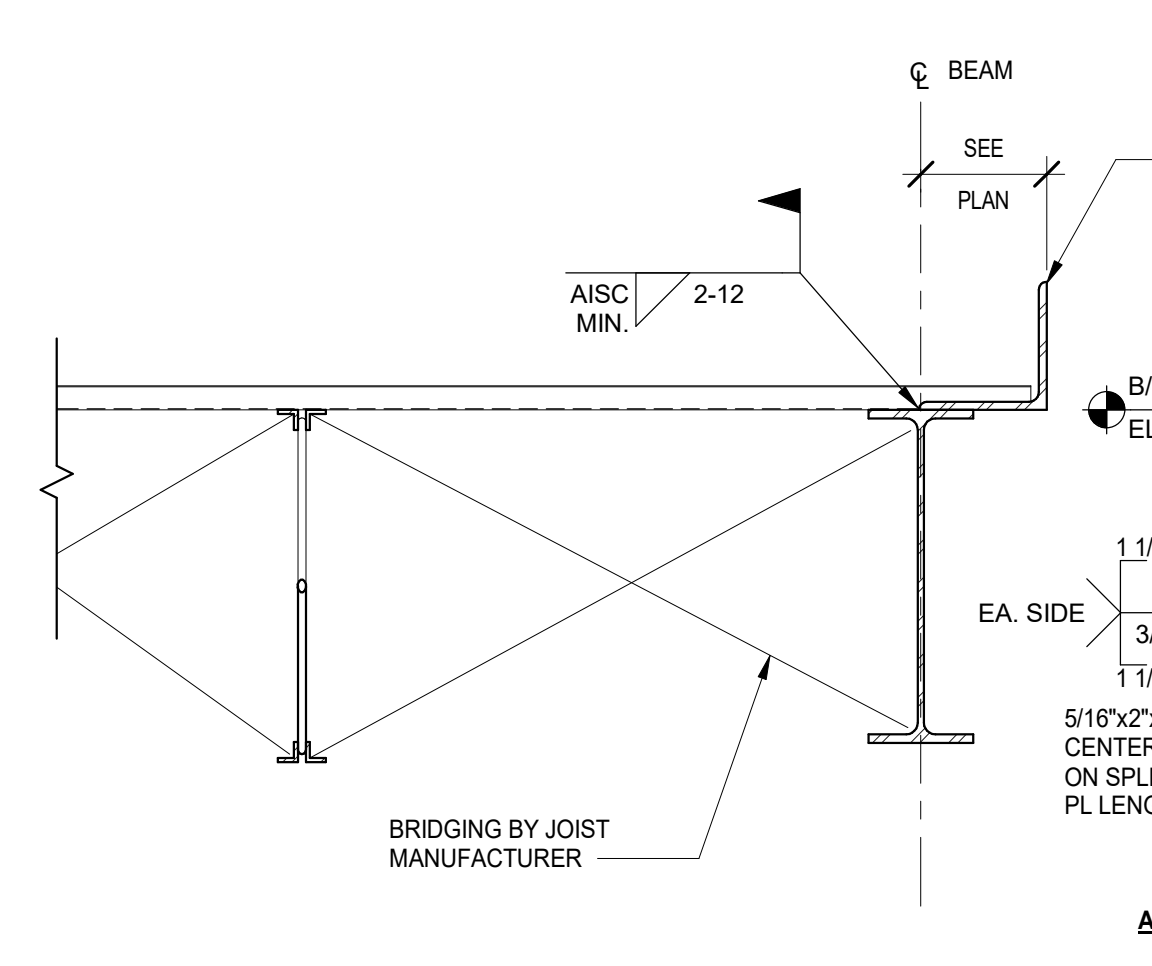
19 TYPICAL EXPANSION JOINT DETAIL
N.T.S.



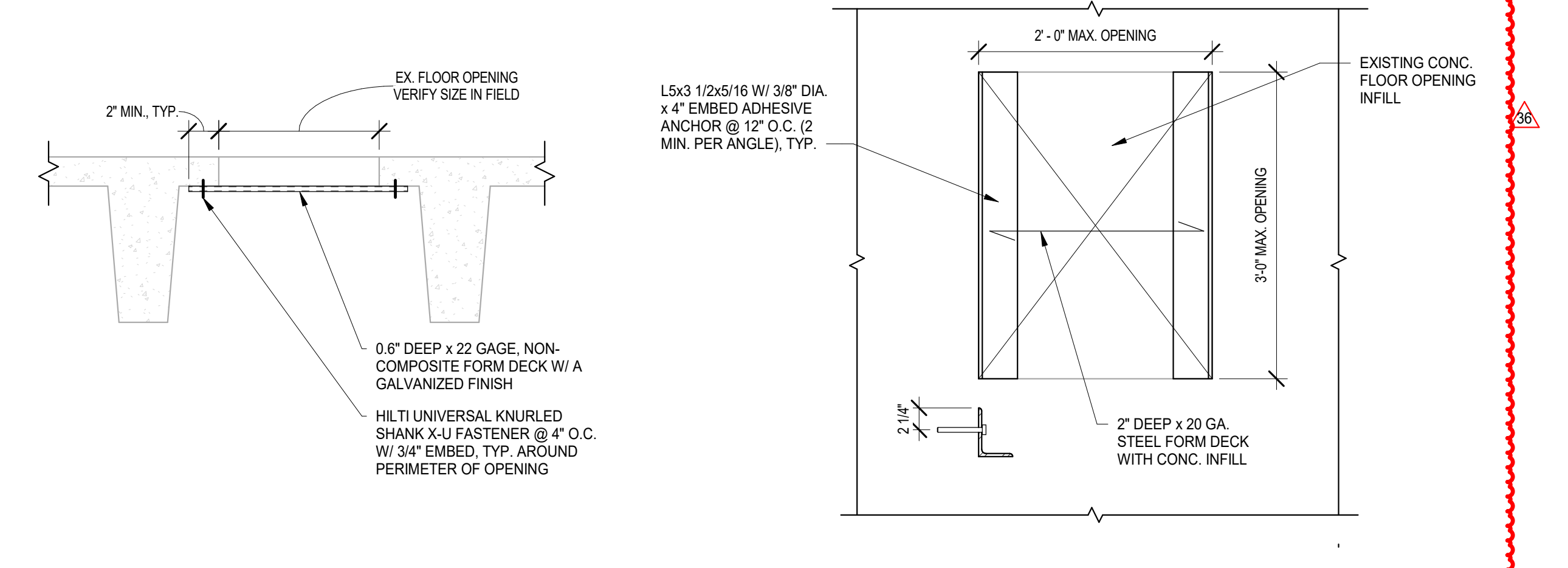
18 TYPICAL HSS BEAM-TO-HSS GIRDER CONNECTION DETAIL
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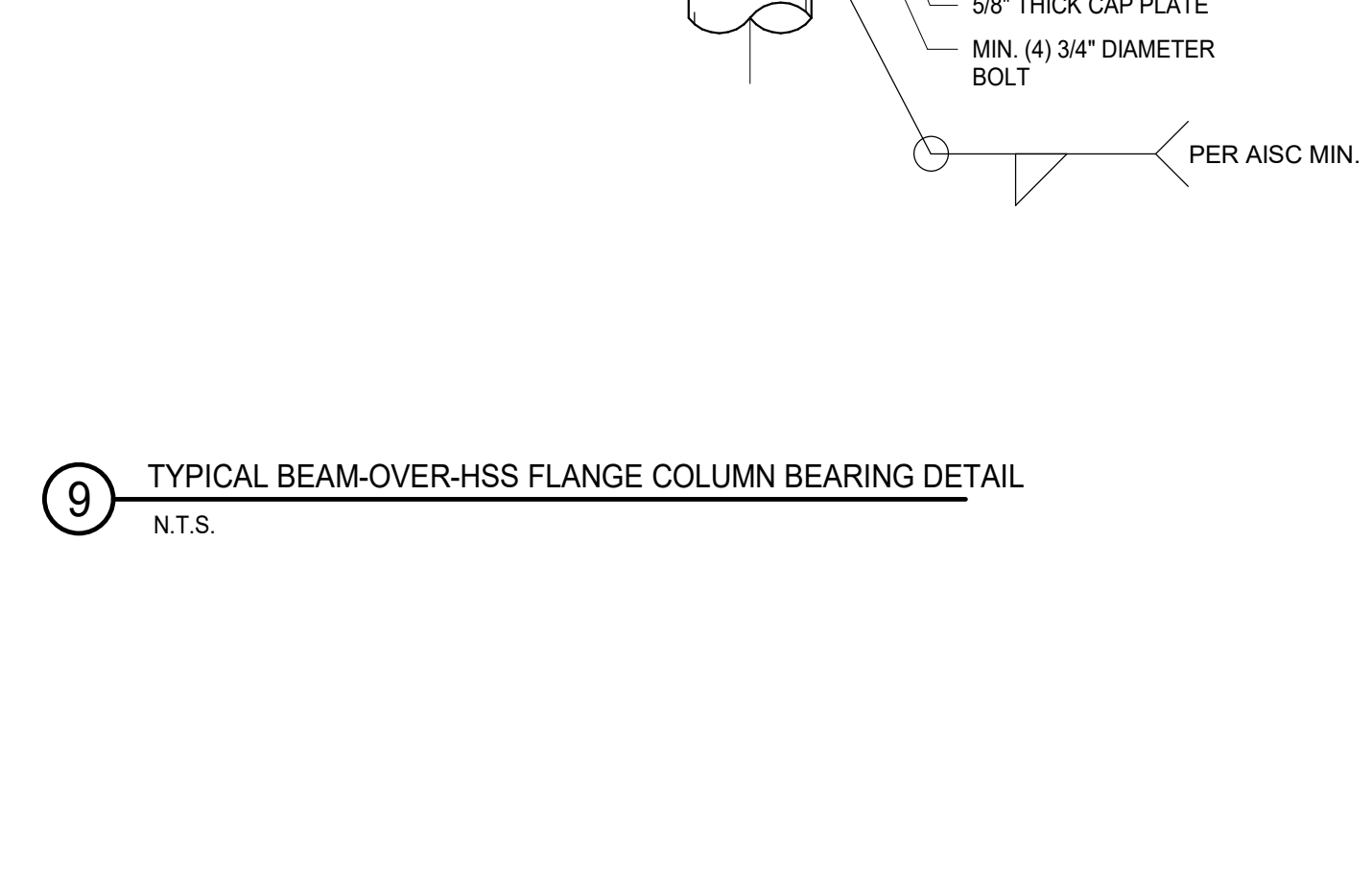
9 TYPICAL BEAM-OVER-HSS FLANGE COLUMN BEARING DETAIL
N.T.S.



5 TYPICAL ROOF CLOSURE ANGLE DETAIL
N.T.S.



21 TYPICAL EXISTING CONCRETE PAN JOIST SLAB FLOOR INFILL DETAIL
N.T.S.



20 TYPICAL EXISTING CONCRETE SLAB FLOOR INFILL DETAIL
N.T.S.

NOT FOR CONSTRUCTION

36 ADDENDUM 2 - BGS 12.04.2019
ISSUED FOR BID GROUP & PHASE C 11.20.2019
ISSUED FOR 90% CD - PHASE C 11.12.2019
ISSUED FOR 75% CD - PHASE C 10.14.2019
ISSUED FOR 25% CD - PHASE C 8.30.2019
REV. DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

TYPICAL SECTIONS AND DETAILS

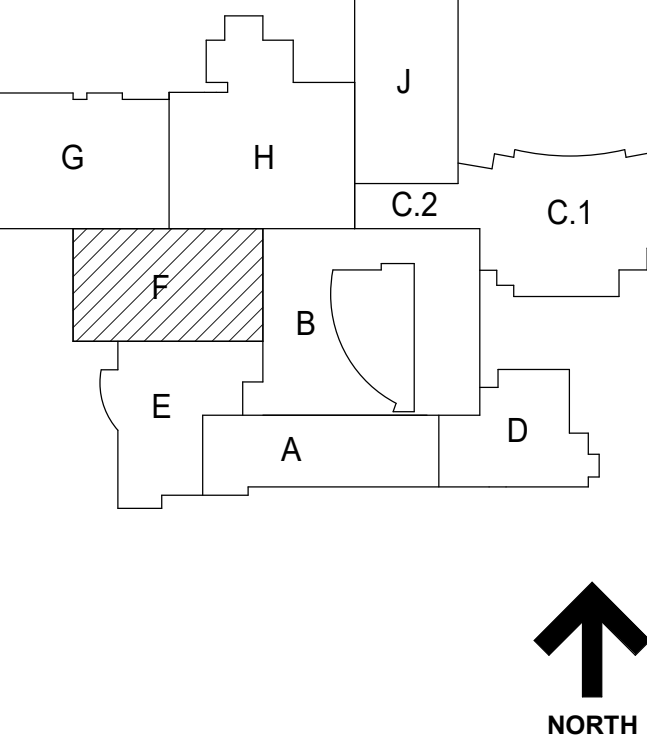
Project Number:
5274-42
Drawn By:
R.U.
Sheet:



Owner

Wight

Wight & Company
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2500 North Frontage Road
Danier, IL 60561
P 630.969.7000
F 630.969.7979



NOT FOR CONSTRUCTION

36 ADDENDUM 2 - BGS 12.04.2019
ISSUED FOR BID GROUP B PHASE C 11.20.2019
ISSUED FOR 75% CD - PHASE C 11.12.2019
ISSUED FOR 75% CD - PHASE C 10.14.2019
ISSUED FOR 25% CD - PHASE C 8.30.2019
REV ISSUE DATE

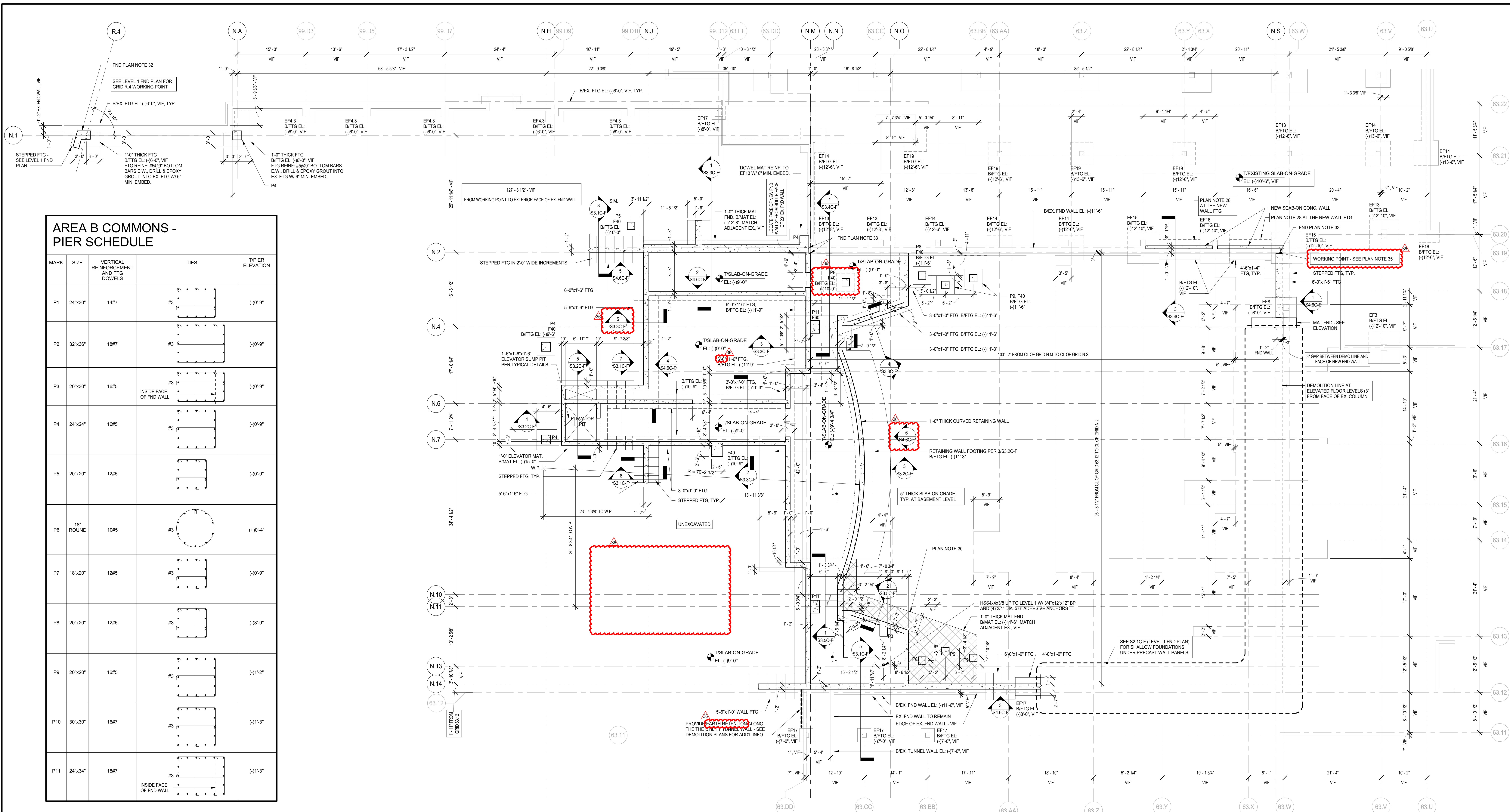
MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

BASEMENT LEVEL FOUNDATION PLAN - AREA F

Project Number:
5274-42
Drawn By:
J.G.
Sheet:

S2.0C-F



AREA B COMMONS - PIER SCHEDULE

MARK	SIZE	VERTICAL REINFORCEMENT AND FTG DOWELS	TIES	PIER ELEVATION
P1	24"x30"	14#7	#3	(+30'-9")
P2	32"x36"	19#7	#3	(+30'-9")
P3	20"x30"	16#5	#3	(+30'-9")
P4	24"x24"	16#5	#3	(+30'-9")
P5	20"x20"	12#5	#3	(+30'-9")
P6	18" ROUND	10#5	#3	(+30'-4")
P7	18"x20"	12#5	#3	(+30'-9")
P8	20"x20"	12#5	#3	(+33'-9")
P9	20"x20"	16#5	#3	(+31'-2")
P10	30"x30"	19#7	#3	(+31'-3")
P11	24"x34"	19#7	#3	(+31'-3")

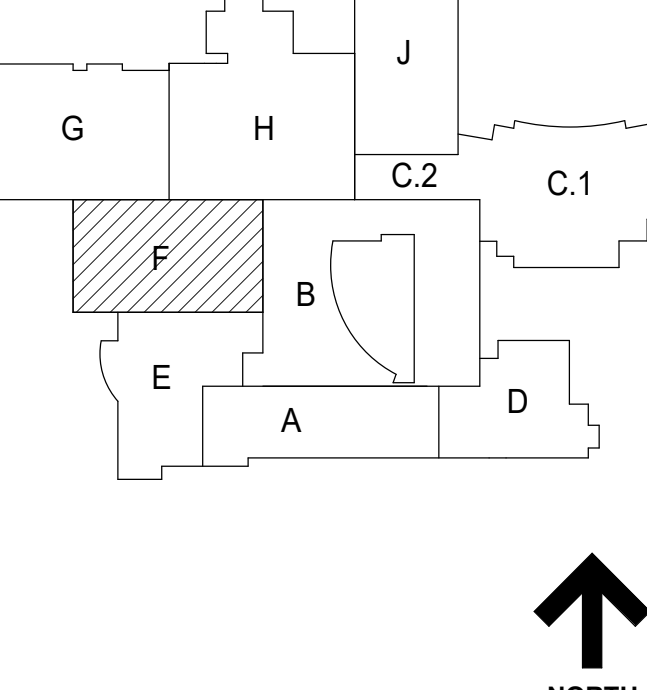
1963 EXISTING FOOTING SCHEDULE

MARK	SIZE (VF)	BOTTOM REINFORCEMENT
EF11	6'-3"x8'-3"x1'-3"	-
EF12	8'-0"x8'-0"x1'-9"	-
EF13	6'-0"x8'-0"x1'-0"	-
EF14	5'-6"x5'-6"x1'-0"	-
EF15	7'-0"x7'-0"x1'-4"	-
EF16	6'-6"x6'-6"x1'-4"	-
EF17	3'-0"x3'-0"x1'-0"	-
EF18	4'-0"x4'-0"x1'-0"	-
EF19	5'-0"x5'-0"x1'-0"	-

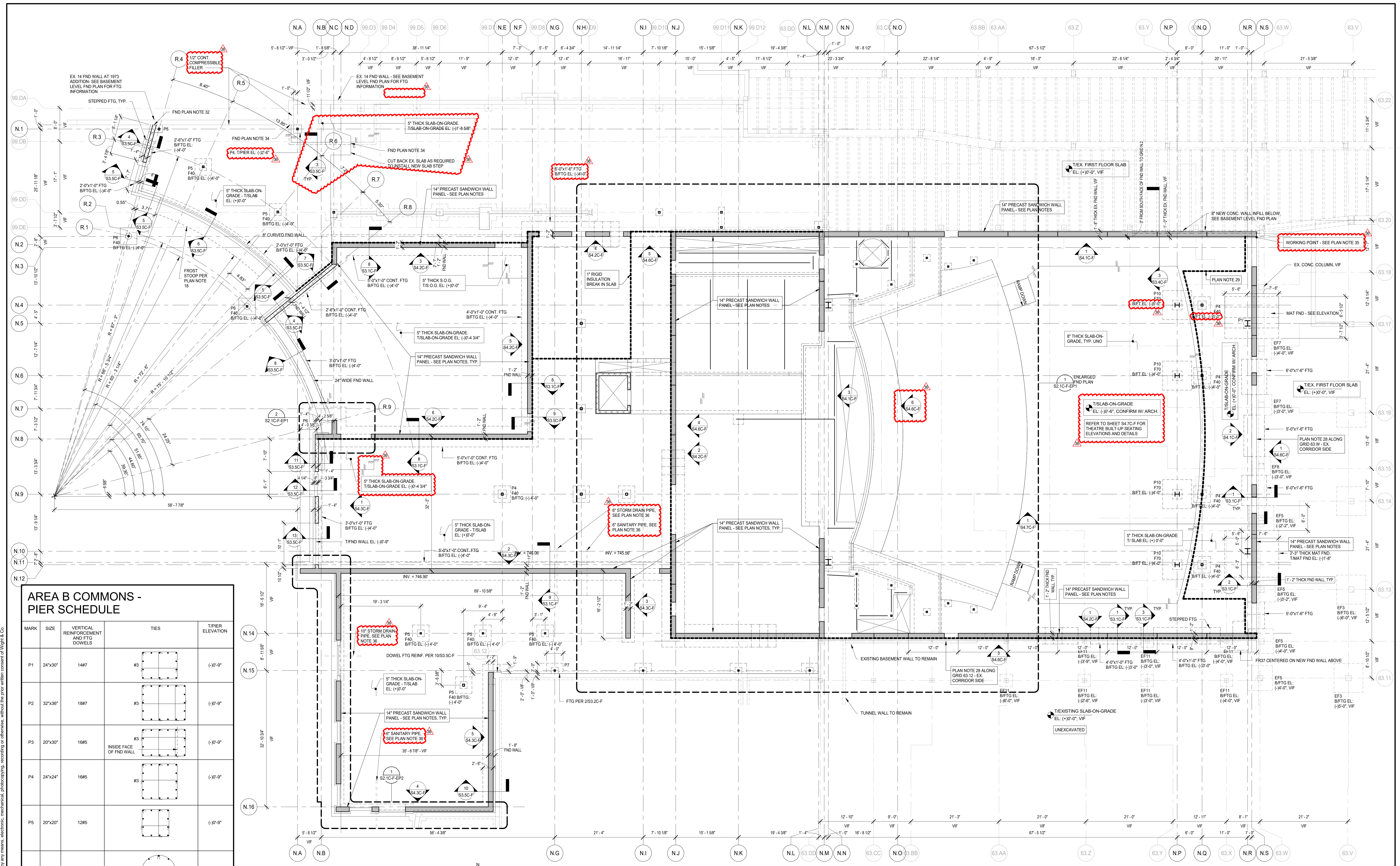
1 BASEMENT LEVEL FOUNDATION PLAN - AREA F
SCALE: 1/8" = 1'-0"

- PLAN NOTES**
- SEE 50 SERIES DRAWINGS FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LINTEL SCHEDULES AND MATERIAL ALLOWANCES.
 - SEE S1 SERIES DRAWINGS FOR TYPICAL SECTIONS AND DETAILS.
 - SEE S3 SERIES DRAWINGS FOR NON-TYPICAL SECTIONS AND DETAILS.
 - SEE S4 SERIES DRAWINGS FOR ELEVATIONS.
 - SEE S5 SERIES DRAWINGS FOR SCHEDULES.
 - CENTERLINE OF SPREAD FOOTING IS ON GRIDLINE, TYPICAL UNLESS NOTED OTHERWISE.
 - SEE S11C FOR TYPICAL SPREAD FOOTING DETAIL AND SPREAD FOOTING SCHEDULE.
 - SEE S2.0C-F AND S2.1C-F FOR CONCRETE PIER SCHEDULE.
 - ESTABLISH BOTTOM OF FOOTINGS IN STRUTUM AS INDICATED. ELEVATIONS GIVEN ARE FOR BIDDING/ESTIMATING PURPOSES ONLY. ON-SITE INSPECTION OF FOUNDATION BEARING STRATA SHALL BE CONDUCTED DURING CONSTRUCTION BY A QUALIFIED GEOTECHNICAL ENGINEER.
 - CENTERLINE OF COLUMN IS ON GRIDLINE. TYPICAL UNLESS NOTED OTHERWISE.
 - SEE PLANS FOR COLUMN ORIENTATION AND COLUMN CENTERLINE TO GRIDLINE DIMENSIONS FOR OFFSET COLUMNS.
 - SEE PLANS FOR TOP OF ROUGH SLAB ELEVATION.
 - UNLESS NOTED OTHERWISE ON FOUNDATION PLANS, SLAB-ON-GRADE SHALL BE 8" THICK CONCRETE SLAB OVER PREPARED SUBGRADE. REINFORCE WITH 4.0BSJC1. VD. OF STRUX 9040 MACROSYNTHETIC FIBERS OR EQUIVALENT.
 - SLAB-ON-GRADE UNDER AUDITORIUM BUILT-UP COLD-FORMED METAL FRAMING SHALL BE 8" THICK CONCRETE SLAB OVER PREPARED SUBGRADE. REINFORCE WITH 4.0BSJC1. VD. OF STRUX 9040 MACROSYNTHETIC FIBERS OR EQUIVALENT.
 - PROVIDE THICKENED SLAB AND DOWELS TO CMU WALLS (IN GROUTED CELLS) AT SLAB-ON-GRADE IN ACCORDANCE WITH TYPICAL SECTIONS AND DETAILS. SEE ARCHITECTURAL DRAWINGS FOR CMU WALL SIZE, LOCATION, REINFORCEMENT, TOP-OF-WALL CONNECTION AND CURBS, IF ANY.
 - SEE ARCHITECTURAL DRAWINGS FOR CURBS NOT INDICATED (SIZE AND LOCATION). SEE TYPICAL SECTIONS AND DETAILS FOR CURB REINFORCEMENT.
 - SEE TYPICAL DETAILS FOR ELECTRICAL GROUNDING DETAIL AND REQUIREMENTS FOR A CONCRETE ENCASED GROUNDING ELECTRODE. COORDINATE WITH ELECTRICAL CONTRACTOR.
 - FROST STOP SHALL CONSIST OF STONE FILL FREE DRAINING MATERIAL, DOWN TO 4'-0" BELOW FINISH GRADE, TYP. SEE ARCH. DRAWINGS FOR PROPER LOCATION OF COMPRESSIBLE 1/2" THICK JOINT FILLER BETWEEN THE INTERIOR SLAB-ON-GRADE AND THE EXTERIOR FLATWORK, WHERE APPLICABLE, TYP.
 - PROVIDE CONTROL JOINTS IN THE SLAB-ON-GRADE AT COLUMN CENTERLINES AND 12' CTS MAX AT REMAINDER. SEE TYPICAL DETAILS 18 AND 14 ON S11C FOR CONTROL JOINT AND COLUMN ISOLATION JOINT DETAILS.
 - EXTERIOR BACKUP CMU WALLS SHALL BE 10" THICK WITH #6#4#5 VERTICAL REINFORCEMENT IN SOLID GROUTED CELLS PLUS MATCHING DOWELS x 9'-0" (2'-0" CONC. EMBED).
 - BASEMENT FOOTINGS ADJACENT TO EXISTING FOUNDATIONS SHALL MATCH THE BOTTOM OF THE EXISTING FOUNDATION, TYP. SEE ARCHITECTURAL DRAWINGS FOR WALL PANEL NOTATIONS, DETAIL LOCATIONS AND REVEAL LOCATIONS, TYP.
 - TPND WALL EL. (+10'-0") TYP. UNQ.
 - TPND WALL EL. (+10'-0") TYP. UNQ.
 - TPND WALL EL. (+10'-0") TYP. UNQ.
 - TPND WALL EL. (+10'-0") TYP. UNQ.
 - SEE BASEMENT LEVEL FOUNDATION PLAN FOR WALL THICKNESSES.
 - ALL WALL PANELS ARE 14" THICK REINFORCED PRECAST SANDWICH WALLS PANELS WITH 2" INSULATION CENTERED ON THE PANEL. SEE ARCHITECTURE DRAWINGS FOR WALL PANEL NOTATIONS, DETAIL LOCATIONS AND REVEAL LOCATIONS, TYP.
 - MEPPF INSTALLING CONTRACTOR(S) SHALL SUBMIT EXISTING ELEVATED FLOOR PLANS INDICATING ALL MEPPF FLOOR PENETRATION SIZES AND LOCATIONS FOR EGR REVIEW. EGR APPROVAL IS REQUIRED PRIOR TO THE START OF COING ACTIVITIES. COORDINATE THE TIMING OF THE SUBMITTAL ACCORDINGLY.
 - REMOVE EXISTING SLAB-ON-GRADE AS REQUIRED TO INSTALL NEW FOUNDATIONS. REPLACE THE SLAB-ON-GRADE IN KIND, PER TYPICAL DETAILS.
 - 1" RIGID INSULATION BREAK IN SLAB (FULL DEPTH) - SEE ARCH. FOR LOCATION. PROVIDE THICKENED SLAB ON BOTH SIDES OF BREAK.
 - BACKFILL SHALL BE COMPLETED OVER THE HATCHED PORTION OF THE MAT FOUNDATION FROM BASEMENT LEVEL TO LEVEL 1, PRIOR TO THE PRECAST ERECTION TAKING PLACE.
 - 3 1/2" NWY CONCRETE ON 9/16" (24 GA.) METAL FORM DECK OVER CMF JOIST FRAMING OVER OPEN DUCT SHAFT OVER 5' SLAB-ON-GRADE. UPPER CONCRETE TOPPING SHALL BE 4" TOTAL THICKNESS. REINFORCE UPPER CONCRETE TOPPING WITH #5BSJC1. VD. OF STRUX 9040 MACROSYNTHETIC FIBERS OR EQUIV. FASTEN WITH #12 TIE BARS AT 12" O.C. TO CMF JOISTS. COLD-FORMED METAL FRAMING (CMF) JOISTS SHALL BE DESIGNED AND DETAILED BY OTHERS. DESIGN CMF FOR SELF WEIGHT OF THE SLAB, SUPERIMPOSED DEAD LOAD OF 20 PSF AND LIVE LOAD OF 100 PSF.
 - DRILL & EPOXY GROUT HORIZONTAL WALL AND WALL FOOTING REINFORCEMENT INTO EXISTING FOUNDATION WITH 9" MIN. EMBED.
 - DRILL & EPOXY GROUT HORIZONTAL WALL AND WALL FOOTING REINFORCEMENT INTO EXISTING FOUNDATION WITH 9" MIN. EMBED.
 - DRILL & EPOXY GROUT HORIZONTAL WALL REINFORCEMENT INTO EXISTING FOUNDATION WITH 3" MIN. EMBED.
 - WORKING POINT SHALL BE LOCATED AS FOLLOWS:
- AT THE SOUTH FACE OF THE EXISTING NORTH FOUNDATION WALL
- 3' WEST OF THE SPECIFIED DEMOLITION LINE
- COLLUM ON GRID 63.V
 - UNDERGROUND PIPING IS CROSSING WALL FOOTINGS. SEE PLUMBING DRAWINGS FOR PIPE LOCATIONS AND INVERT ELEVATIONS. DETAIL THE WALL FOOTING AT PIPE LOCATION PER TYPICAL DETAIL 481.1C. TYPICAL PIPE THROUGH CONT. FOOTING DETAILS.

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AREA B COMMONS - PIER SCHEDULE

MARK	SIZE	VERTICAL REINFORCEMENT AND FTG DOWELS	TIES	TIEPIER ELEVATION
P1	24"x30"	14#7	#3	(+0'-0")
P2	32"x36"	18#7	#3	(+0'-0")
P3	20"x30"	16#5	#3	(+0'-0")
P4	24"x24"	16#5	#3	(+0'-0")
P5	20"x20"	12#5	#3	(+0'-0")
P6	18" ROUND	10#5	#3	(+0'-4")
P7	18"x20"	12#5	#3	(+0'-0")
P8	20"x20"	12#5	#3	(+3'-0")
P9	20"x20"	16#5	#3	(+11'-2")
P10	30"x30"	16#7	#3	(+11'-3")
P11	24"x34"	18#7	#3	(+11'-3")

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

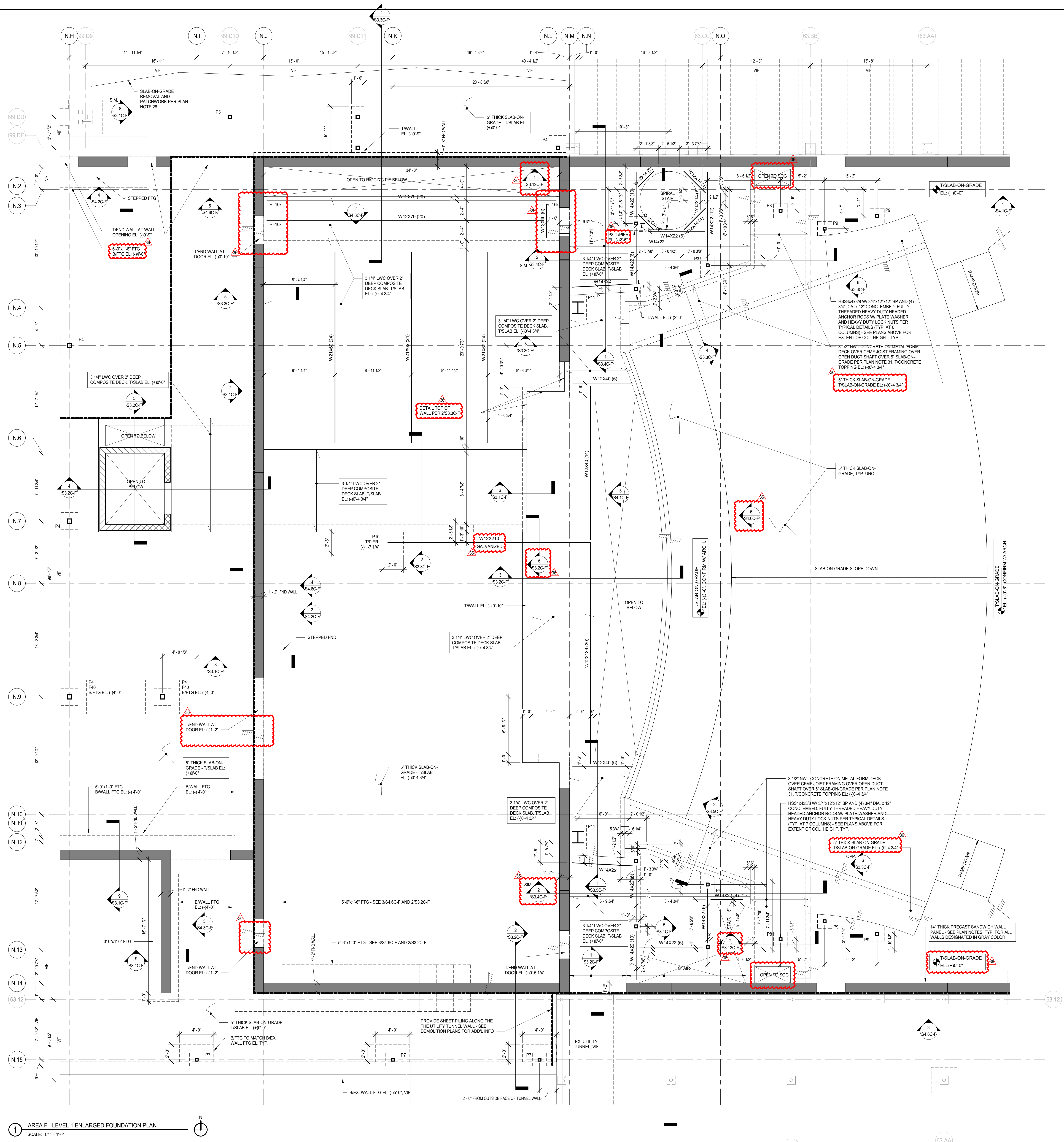
- PLAN NOTES**
- SEE S0 SERIES DRAWINGS FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LINEL SCHEDULES AND MATERIAL ALLOWANCES.
 - SEE S1 SERIES DRAWINGS FOR TYPICAL SECTIONS AND DETAILS.
 - SEE S3 SERIES DRAWINGS FOR NON-TYPICAL SECTIONS AND DETAILS.
 - SEE S4 SERIES DRAWINGS FOR ELEVATIONS.
 - SEE S5 SERIES DRAWINGS FOR SCHEDULES.
 - CENTERLINE OF SPREAD FOOTING IS ON GRIDLINE, TYPICAL UNLESS NOTED OTHERWISE.
 - SEE S11-C FOR TYPICAL SPREAD FOOTING DETAIL AND SPREAD FOOTING SCHEDULE.
 - SEE S2-C-F AND S21-C-F FOR CONCRETE PIER SCHEDULE.
 - ESTABLISH BOTTOM OF FOOTINGS IN STRUTUM AS INDICATED. ELEVATIONS GIVEN ARE FOR BIDDING ESTIMATING PURPOSES ONLY. ON-SITE INSPECTION OF FOUNDATION BEARING STRATA SHALL BE CONDUCTED DURING CONSTRUCTION BY A QUALIFIED GEOTECHNICAL ENGINEER.
 - CENTERLINE OF COLUMN IS ON GRIDLINE, TYPICAL UNLESS NOTED OTHERWISE.
 - SEE PLANS FOR COLUMN ORIENTATION AND COLUMN CENTERLINE TO GRIDLINE DIMENSIONS FOR OFFSET COLUMNS.
 - SEE PLANS FOR TOP OF ROUGH SLAB ELEVATION.
 - UNLESS NOTED OTHERWISE ON FOUNDATION PLANS, SLAB-ON-GRADE SHALL BE 5" THICK CONCRETE SLAB OVER PREPARED SUBGRADE. REINFORCE WITH 4 LBS/CU YD. OF STRUX 9040 MACROSYNTHETIC FIBERS OR EQUIVALENT.
 - SLAB-ON-GRADE UNDER AUDITORIUM BUILT-UP COLD-FORMED METAL FRAMING SEATING SHALL BE 8" THICK CONCRETE SLAB OVER PREPARED SUBGRADE. REINFORCE WITH 4 LBS/CU YD. OF STRUX 9040 MACROSYNTHETIC FIBERS OR EQUIVALENT.
 - PROVIDE THICKENED SLAB AND DOWELS TO CMU WALLS (IN GROUTED CELLS) AT SLAB-ON-GRADE IN ACCORDANCE WITH TYPICAL SECTIONS AND DETAILS. SEE ARCHITECTURAL DRAWINGS FOR CMU WALL SIZE, LOCATION, REINFORCEMENT, TOP-OF-WALL CONNECTION AND CURB, IF ANY.
 - SEE ARCHITECTURAL DRAWINGS FOR CURBS NOT INDICATED (SIZE AND LOCATION). SEE TYPICAL SECTIONS AND DETAILS FOR CURB REINFORCEMENT.

- SEE TYPICAL DETAILS FOR ELECTRICAL GROUNDING DETAIL AND REQUIREMENTS FOR A CONCRETE ENCASED GROUNDING ELECTRODE. COORDINATE WITH ELECTRICAL CONTRACTOR.
- FROST STOOP SHALL CONSIST OF STONE FILLED FREE DRAINING MATERIAL, DOWN TO 4'-0" BELOW FINISH GRADE, TYP. SEE ARCH. DRAWINGS FOR PROPER LOCATION OF COMPRESSIBLE 1/2" THICK JOINT FILLER BETWEEN THE INTERIOR SLAB-ON-GRADE AND THE EXTERIOR FLATWORK, WHERE APPLICABLE, TYP.
- PROVIDE CONTROL JOINTS IN THE SLAB-ON-GRADE AT COLUMN CENTERLINES AND 12' CTS MAX AT REMAINDER. SEE TYPICAL DETAILS 10 AND 14 ON S1.1C FOR CONTROL, JOINT AND COLUMN ISOLATION JOINT DETAILS.
- EXTERIOR BACKUP CMU WALLS SHALL BE 10" THICK WITH #5@48" VERTICAL REINFORCEMENT IN SOLID GROUTED CELLS PLUS MATCHING DOWELS x 5'-0" (2'-0" CONC. EMBED).
- BNEW FOOTINGS ADJACENT TO EXISTING FOUNDATIONS SHALL MATCH THE BOTTOM OF THE EXISTING FOUNDATIONS, SEE PLAN VIEWS.
- TEND WALL EL: (+0'-2") TYP. UNO
- TEND WALL ELEVATION AT DOOR SHALL BE 7" BELOW TSLAB-ON-GRADE, TYP. UNO
- "INDICATES DIMENSIONS TO BE COORDINATED WITH ELEVATOR MANUFACTURER."
- SEE BASEMENT LEVEL FOUNDATION PLAN FOR WALL THICKNESSES.
- ALL WALL PANELS ARE 14" THICK REINFORCED PRECAST SANDWICH WALLS WITH 1" INSULATION CENTERED ON THE PANEL. SEE ARCHITECTURAL DRAWINGS FOR PANEL WALL LOCATIONS AND REVEAL LOCATIONS, TYP. ALL PANELS SHALL BE 14" THICK UNLESS NOTED OTHERWISE.
- MEFPF INSTALLING CONTRACTOR(S) SHALL SUBMIT EXISTING ELEVATED FLOOR PLANS INDICATING ALL MEFPF FLOOR PENETRATIONS SIZES AND LOCATIONS FOR EOR REVIEW. EOR APPROVAL IS REQUIRED PRIOR TO THE START OF CORING ACTIVITIES. COORDINATE THE TIMING OF THE SUBMITTAL ACCORDINGLY.
- REMOVE EXISTING SLAB-ON-GRADE AS REQUIRED TO INSTALL NEW FOUNDATIONS. REPLACE THE SLAB-ON-GRADE IN KIND, PER TYPICAL DETAILS.
- 1" RIGID INSULATION BREAK IN SLAB (FULL DEPTH) - SEE ARCH. FOR LOCATION. PROVIDE THICKENED SLAB ON BOTH SIDES OF BREAK.
- BACKFILL SHALL BE COMPLETED OVER THE HATCHED PORTION OF THE MAT FOUNDATION FROM BACKFILL LEVEL TO LEVEL 1, PRIOR TO THE PRECAST ERECTION TAKING PLACE.

- 3 1/2" MWT CONCRETE ON 8" W/ (24 GA) METAL FORM DECK OVER CFM JOIST FRAMING OVER OPEN DUCT SHAFT OVER 5" SLAB-ON-GRADE. UPPER CONCRETE TOPPING SHALL BE 4" TOTAL THICKNESS. REINFORCE UPPER CONCRETE TOPPING W/ 4LBS/CU YD. OF STRUX 9040 MACROSYNTHETIC FIBERS OR EQUIV. FASTEN WITH #12 TEK SCREWS AT 12" O.C. TO CMF JOISTS. COLD-FORMED METAL FRAMING (CFMF) JOISTS SHALL BE DESIGNED AND DETAIL BY OTHERS. DESIGN CMF FOR SELF WEIGHT OF THE SLAB, SUPERIMPOSED DEAD LOAD OF 20 PSF AND LIVE LOAD OF 100 PSF.
- DRILL & EPOXY GROUT HORIZONTAL WALL AND WALL FOOTING REINFORCEMENT INTO EXISTING FOUNDATION WITH 6" MIN. EMBED.
- DRILL & EPOXY GROUT HORIZONTAL WALL AND WALL FOOTING REINFORCEMENT INTO EXISTING FOUNDATION WITH 6" MIN. EMBED.
- DRILL & EPOXY GROUT HORIZONTAL WALL REINFORCEMENT INTO EXISTING FOUNDATION WITH 6" MIN. EMBED.
- WORKING POINT SHALL BE LOCATED AS FOLLOWS:
- AT THE SOUTH FACE OF THE EXISTING NORTH FOUNDATION WALL
- 7' WEST OF THE SPECIFIED DEMOLITION LINE
- DEMOLITION LINE IS SHALL BE LOCATED 3' WEST OF THE WESTERN FACE OF THE EXISTING COLUMN ON GRID 63.W
- UNDERGROUND PIPING IS CROSSING WALL FOOTINGS. SEE PLUMBING DRAWINGS FOR PIPE LOCATIONS AND INVERT ELEVATIONS. DETAIL THE WALL FOOTING AT PIPE LOCATION PER TYPICAL DETAIL 4.51.1C. TYPICAL PIPE THROUGH CONT. FOOTING DETAILS.

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2 ENLARGED FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



1 AREA F - LEVEL 1 ENLARGED FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

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36 ADDENDUM 2 - BGS 12.04.2019
ISSUED FOR BID GROUP B-PHASE C 11.20.2019
REV ISSUE DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

ENLARGED FOUNDATION PLANS

Project Number:
5274-42
Drawn By:
J.G.
Sheet:

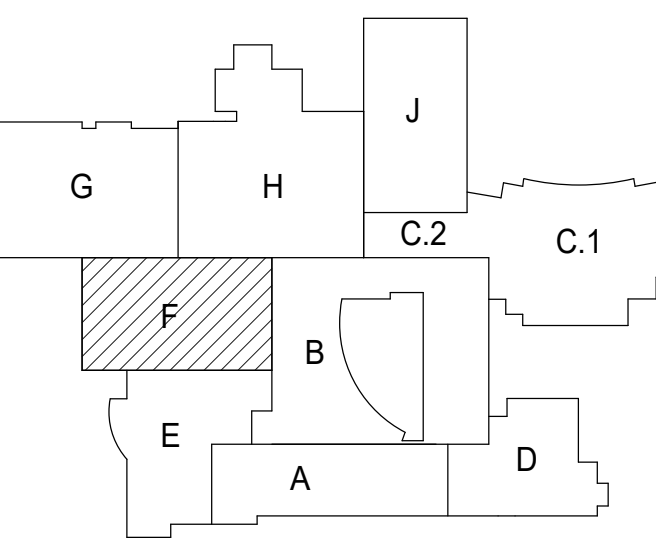
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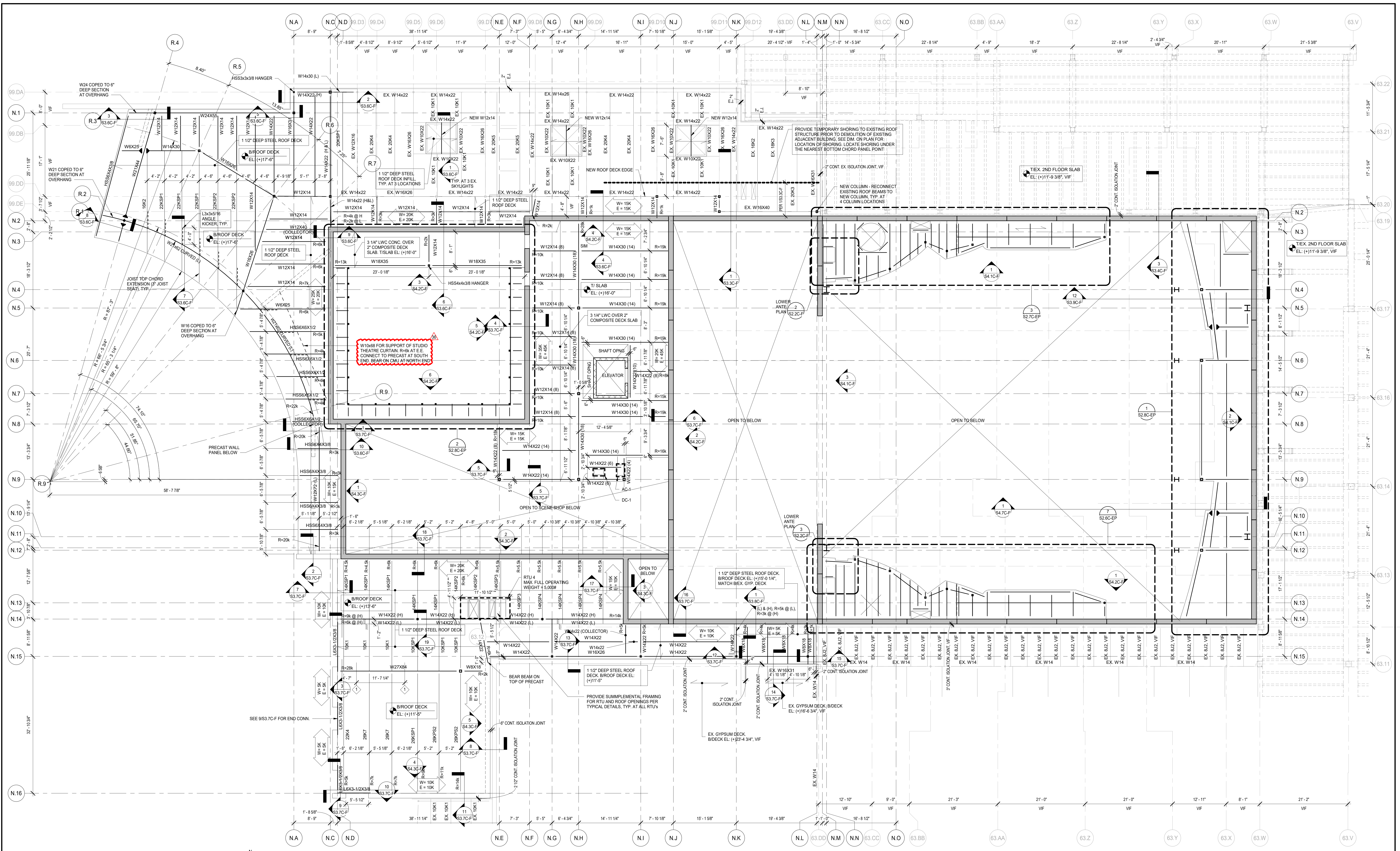
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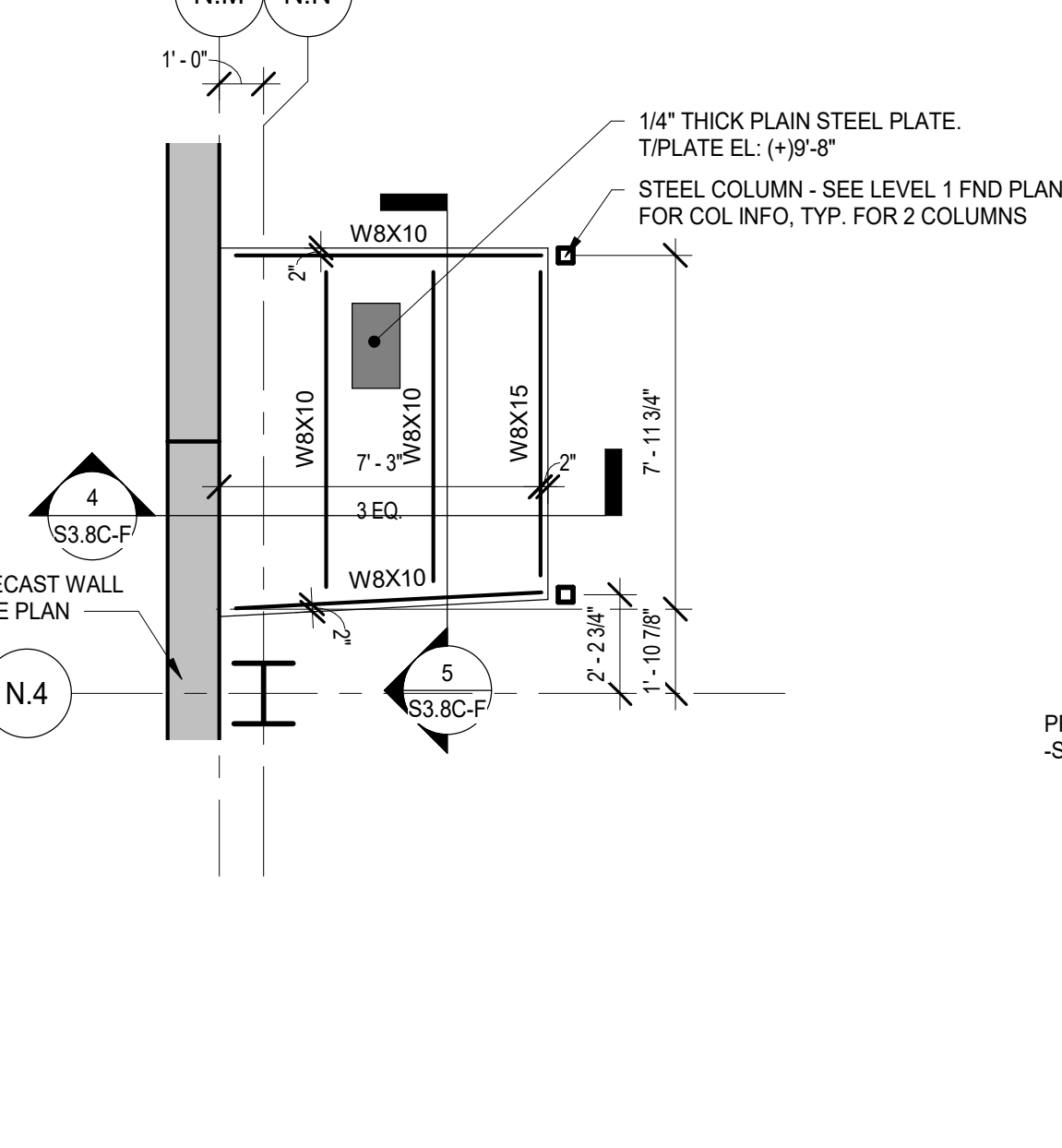
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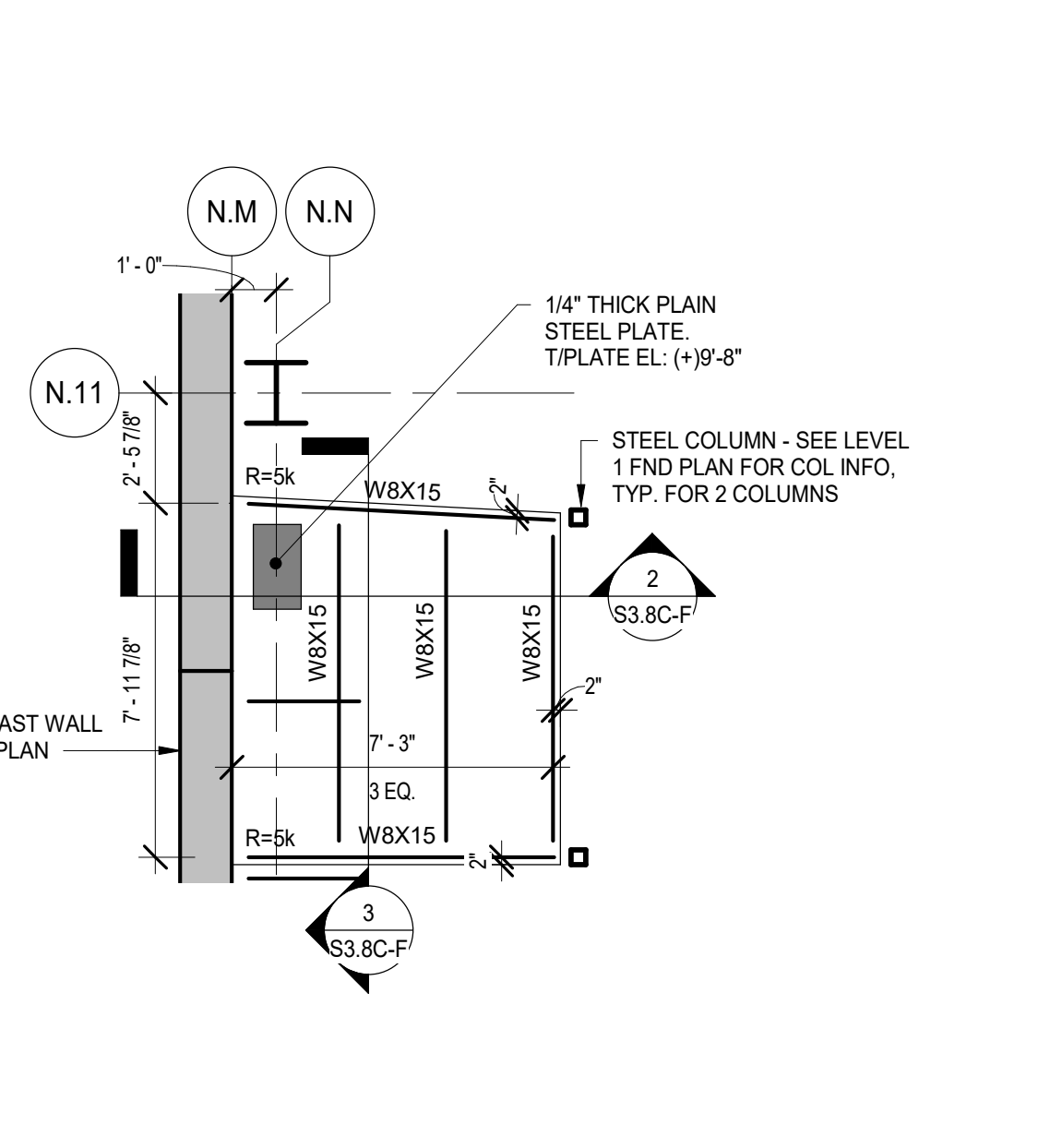


1 LEVEL 2/LOW ROOF FRAMING PLAN - AREA F
SCALE: 1/8" = 1'-0"



2 ENLARGED LOWER ANTE PLAN
SCALE: 1/4" = 1'-0"

3 ENLARGED LOWER ANTE PLAN
SCALE: 1/4" = 1'-0"



PLAN NOTES

- SEE S0 SERIES DRAWINGS FOR GENERAL NOTES, ABBREVIATIONS, SYMBOLS AND LINTEL SCHEDULES.
- SEE S1 SERIES DRAWINGS FOR TYPICAL SECTIONS AND DETAILS.
- SEE S3 SERIES DRAWINGS FOR NON-TYPICAL SECTIONS AND DETAILS.
- SEE S4 SERIES DRAWINGS FOR ELEVATIONS AND S5 SERIES FOR SCHEDULES.
- CENTERLINE OF COLUMN IS ON GRIDLINE. TYPICAL UNLESS NOTED OTHERWISE.
- SEE PLANS FOR COLUMN ORIENTATION AND COLUMN CENTERLINE TO GRIDLINE DIMENSIONS FOR OFFSET COLUMNS.
- SEE PLANS FOR TOP OF ROUGH SLAB ELEVATION.
- (H) AS INDICATED ON PLAN INDICATES HIGHER BEAM OF FRAMING MEMBERS IN SAME VERTICAL PLANE.
- (L) AS INDICATED ON PLAN INDICATES LOWER BEAM OF FRAMING MEMBERS IN SAME VERTICAL PLANE.
- SEE ARCHITECTURAL DRAWINGS FOR CURBS NOT INDICATED (SIZE AND LOCATION). SEE TYPICAL SECTIONS AND DETAILS FOR CURB REINFORCEMENT.
- AT ELEVATED FLOOR LEVELS, FLOOR DECK SHALL BE 3 1/4" THICK LIGHTWEIGHT CONCRETE OVER 2" DEEP COMPOSITE STEEL FLOOR DECK, UNLESS NOTED OTHERWISE. REINFORCE SLAB WITH 4 @ LBS/CY V.D. OF ST10X 60# MACROSYNTHETIC FIBER REINFORCEMENT OR EQUIVALENT.
- OTHERWISE, FLOOR DECK SHALL BE 4" NORMAL WEIGHT CONCRETE OVER 2" DEEP NON-COMPOSITE STEEL FLOOR DECK, REINFORCE SLAB WITH #4@12" W2 1 WELDED WIRE REINFORCEMENT. SUBSTITUTES ARE NOT PERMITTED FOR THE WELDED WIRE REINFORCEMENT.
- SEE PLAN FOR BOTTOM OF STEEL DECK ELEVATIONS, TYPICAL UNLESS NOTED OTHERWISE.
- STUDIO THEATRE ROOF, AUDITORIUM ROOF AND FLY GALLERY ROOF SHALL CONSIST OF FLOOR DECK OF 3" THICK NORMAL WEIGHT CONCRETE OVER 3" DEEP COMPOSITE STEEL FLOOR DECK, REINFORCE SLAB WITH 4 @ LBS/CY V.D. OF ST10X 60# MACROSYNTHETIC FIBER REINFORCEMENT OR EQUIVALENT.
- OTHERWISE, ROOF DECK SHALL BE 1 1/2" DEEP STEEL ROOF DECK.
- SEE PLAN FOR BOTTOM OF STEEL ROOF DECK ELEVATIONS, TYPICAL UNLESS NOTED OTHERWISE.
- PROVIDE 16G@16" STEEL ANGLE OR BENT PLATE AT ROOF PERIMETER AND AT INTERIOR OPENINGS IN ACCORDANCE WITH TYPICAL DETAILS.
- SEE S44C-F AND S45C-F FOR ROOF TRUSS AND SPECIAL DESIGN JOIST SCHEMATIC LOADINGS.
- SUSPEND PIPE HANGERS AND OTHER MECHANICAL EQUIPMENT FROM DESIGNATED OR APPROVED STEEL JOISTS. LOCATE CONCENTRATED LOADS AT JOIST PANEL POINTS ONLY OR REINFORCE STEEL JOISTS IN ACCORDANCE WITH TYPICAL SECTIONS AND DETAILS.
- PLACE SUPPORTS FOR ROOF TOP EQUIPMENT LOADS ON DESIGNATED OR APPROVED STEEL JOISTS. LOCATE CONCENTRATED LOADS AT JOIST PANEL POINTS ONLY OR REINFORCE STEEL JOISTS IN ACCORDANCE WITH TYPICAL SECTIONS AND DETAILS.
- SEE TYPICAL DETAILS FOR ELECTRICAL GROUNDING DETAIL AND REQUIREMENTS FOR A CONCRETE ENCASED GROUNDING ELECTRODE. COORDINATE WITH ELECTRICAL CONTRACTOR.
- ** INDICATES DIMENSIONS TO BE COORDINATED WITH EQUIPMENT MANUFACTURER.
- W = xxx
E = xxx
TOTAL HORIZONTAL STRENGTH WIND FORCE (W) AND STRENGTH SEISMIC FORCES (E) FROM THE ROOFTOP DRAPERY OR ADJACENT WALLS TO BE RESISTED BY THE PRECAST CONCRETE SHEAR WALLS BELOW.
- SUPPORT ALL MEPP EQUIPMENT AND PIPING GREATER THAN 2 INCHES IN DIAMETER DIRECTLY FROM THE DESIGNATED STEEL ROOF JOISTS (TOP CHORDS ONLY) AND STEEL WIDE FLANGED BEAM AND GIRDER FRAMING. DO NOT SUPPORT THE ABOVEMENTIONED FROM THE STEEL ROOF DECK DIRECTLY. ITEMS SUCH AS LIGHTWEIGHT CEILING AND LIGHTING MAY BE SUPPORTED DIRECTLY FROM THE STEEL ROOF DECK.
- ALL MEP EQUIPMENT STEEL SUPPORTS SHALL BE COORDINATED WITH THE INSTALLING CONTRACTOR(S). SEE PLANS AND TYPICAL DETAILS FOR STEEL SUPPORT REQUIREMENTS.
- COORDINATE SIZE AND QUANTITY OF ROOF DECK PENETRATIONS WITH MEPP DRAWINGS, TYP. REINFORCE NEW PENETRATIONS IN EXISTING NEW ROOF DECKS PER TYPICAL STRUCTURAL DETAILS.
- MEPP INSTALLING CONTRACTOR(S) SHALL SUBMIT EXISTING ELEVATED FLOOR PLANS INDICATING ALL MEPP FLOOR PENETRATIONS SIZES AND LOCATIONS FOR REVIEW. FOR APPROVAL IS REQUIRED PRIOR TO THE START OF CORING ACTIVITIES. COORDINATE THE TIMING OF SUBMITTAL ACCORDINGLY. LOCATE AND AVOID DAMAGE TO REINFORCEMENT.
- SEE STEEL DECK NOTES ON S010 FOR STEEL DECK ATTACHMENT INFORMATION TO THE SUPPORT STEEL.
- MAXIMUM LIVE LOAD DEFLECTION FOR ELEVATED SLABS @ BUILDING ENVELOPE AND INTERIOR PARTITIONS = 1/8"

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36 ADDENDUM 2 - BGS 12.04.2019
ISSUED FOR BID GROUP B-PHASE C 11.20.2019
ISSUED FOR 90% CD - PHASE C 11.1.2019
ISSUED FOR 75% CD - PHASE C 10.14.2019
ISSUED FOR 25% CD - PHASE C 8.30.2019
REV ISSUE DATE

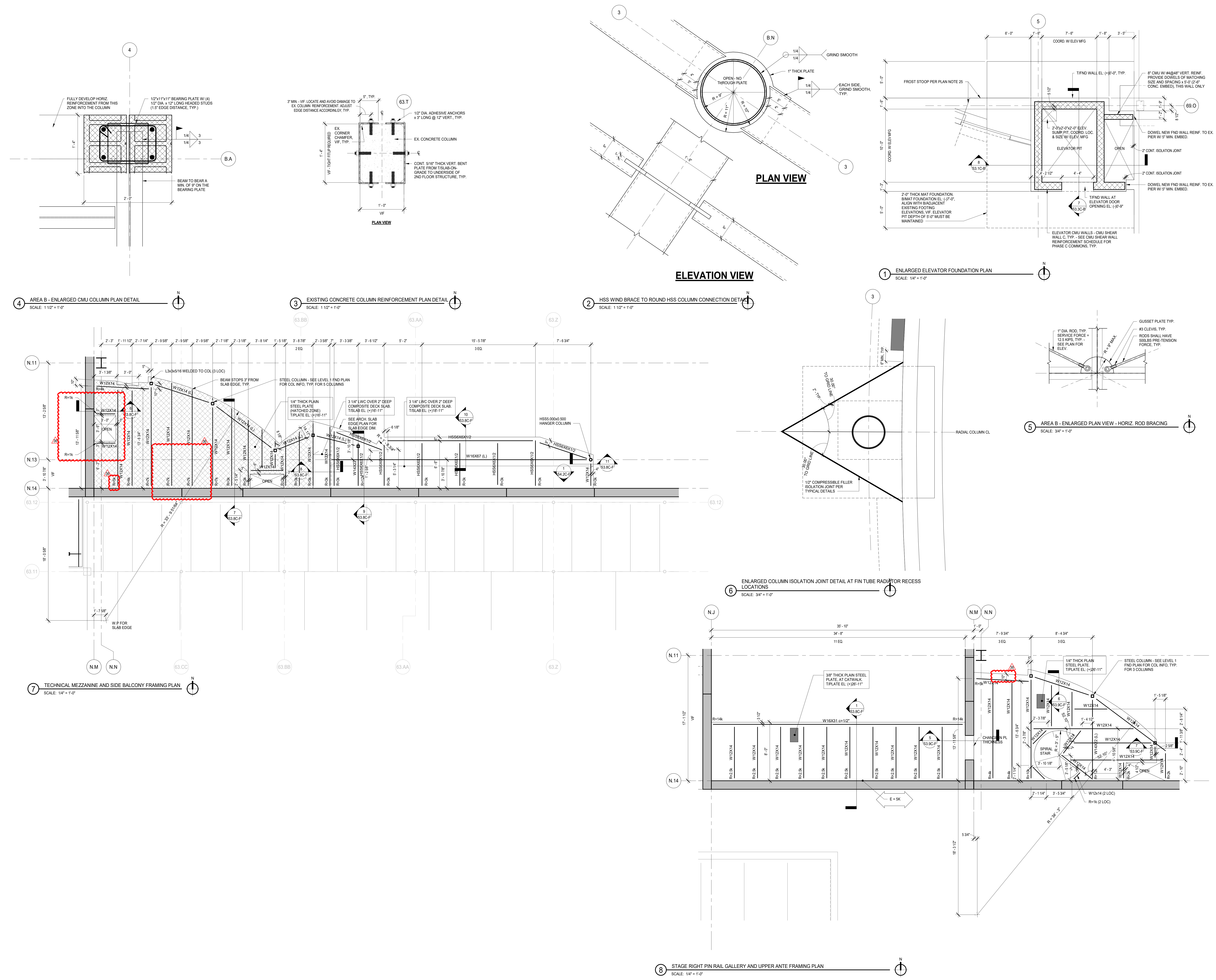
MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

LEVEL 2 AND LOW ROOF FRAMING PLANS - AREA F

Project Number:
5274-42
Drawn By:
J.G.
Sheet:

S2.2C-F



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36 ADDENDUM 2 - BGR 12/04/2019
ISSUED FOR BID GROUP B-PHASE C 11/20/2019
ISSUED FOR 90% CD - PHASE C 11/1/2019
ISSUED FOR 75% CD - PHASE C 10/14/2019
REV ISSUE DATE

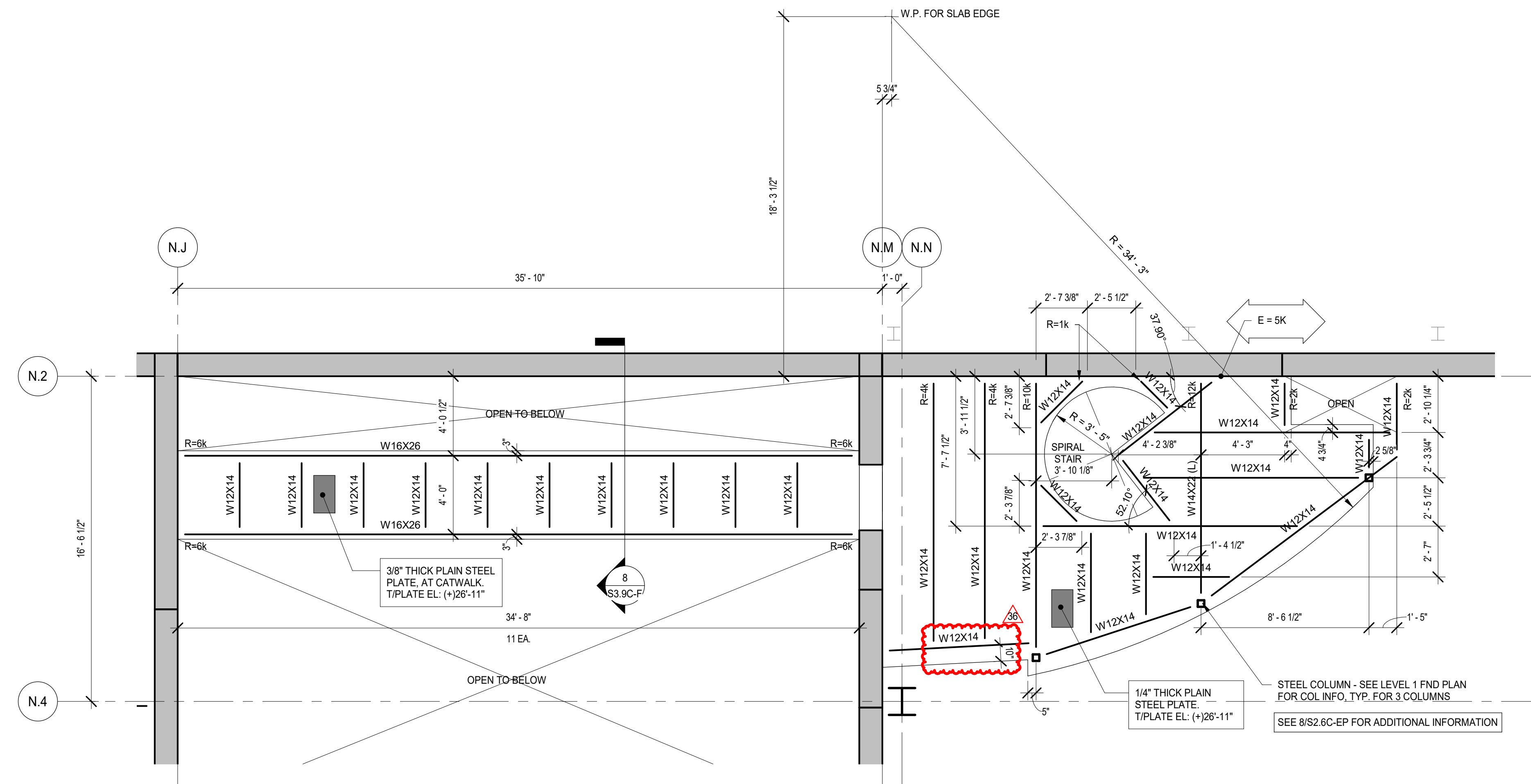
MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

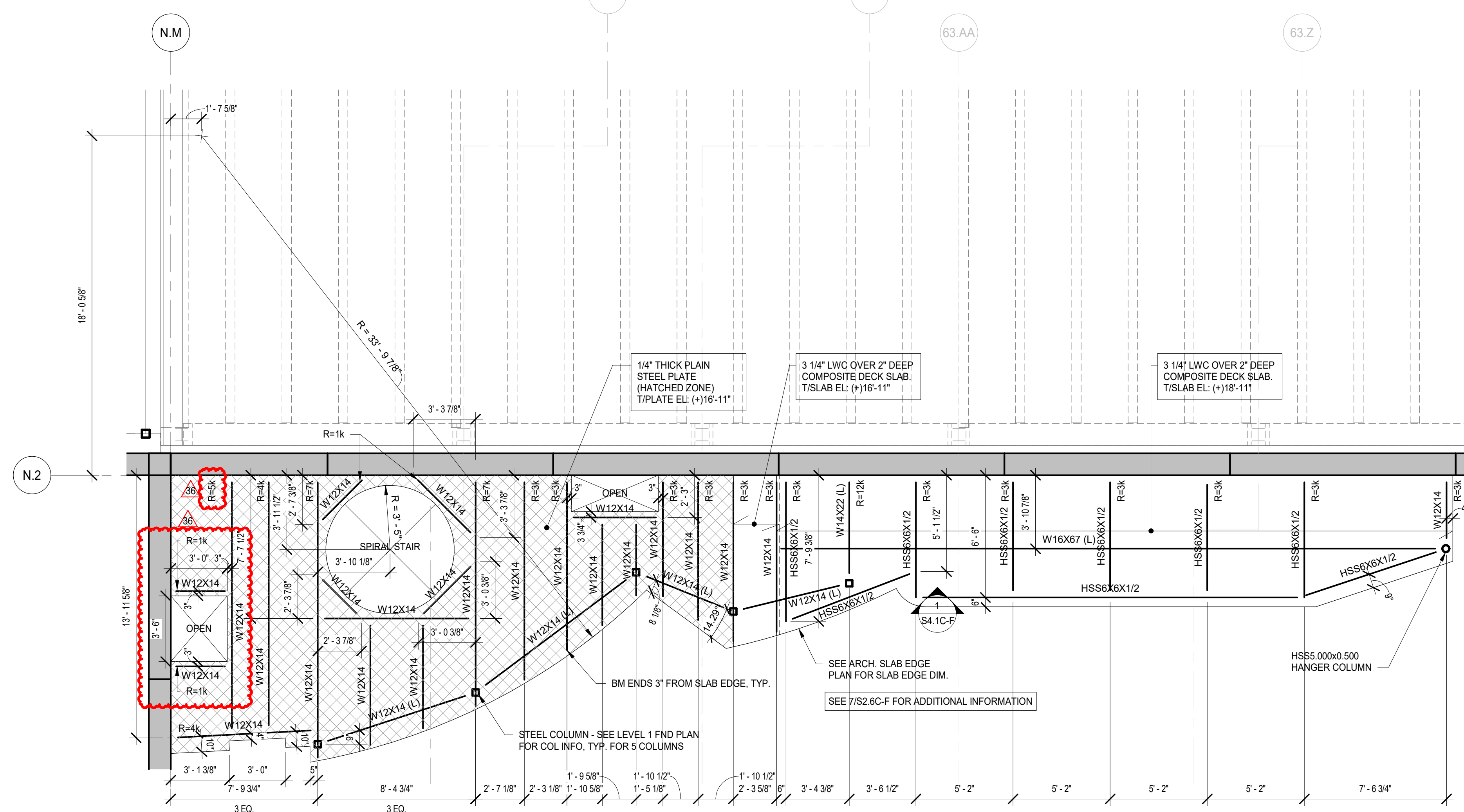
ENLARGED PLANS

Project Number: 5274-42
Drawn By: J.G.
Sheet: **S2.6C-EP**

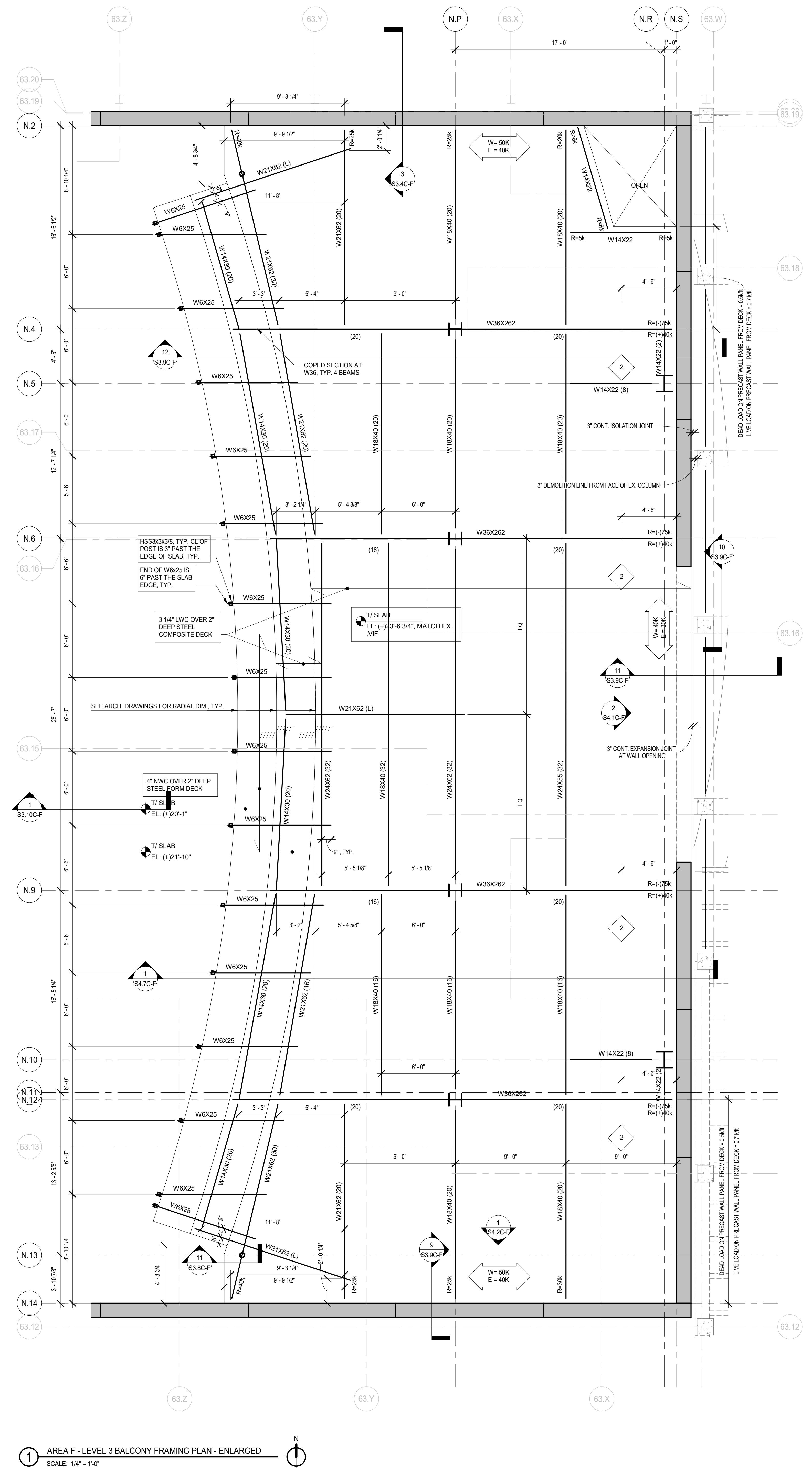
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2 STAGE LEFT PIN RAIL GALLERY AND UPPER ANTE FRAMING PLAN
SCALE: 1/4" = 1'-0"



3 TECHNICAL MEZZANINE AND SIDE BALCONY FRAMING PLAN
SCALE: 1/4" = 1'-0"



1 AREA F - LEVEL 3 BALCONY FRAMING PLAN - ENLARGED
SCALE: 1/4" = 1'-0"

**NOT FOR
CONSTRUCTION**

36 ADDENDUM 2 - 8G8 12.04.2019
ISSUED FOR BID GROUP B-PHASE C 11.20.2019
REV ISSUE DATE

**MFP
IMPLEMENTATION -
SOUTH**

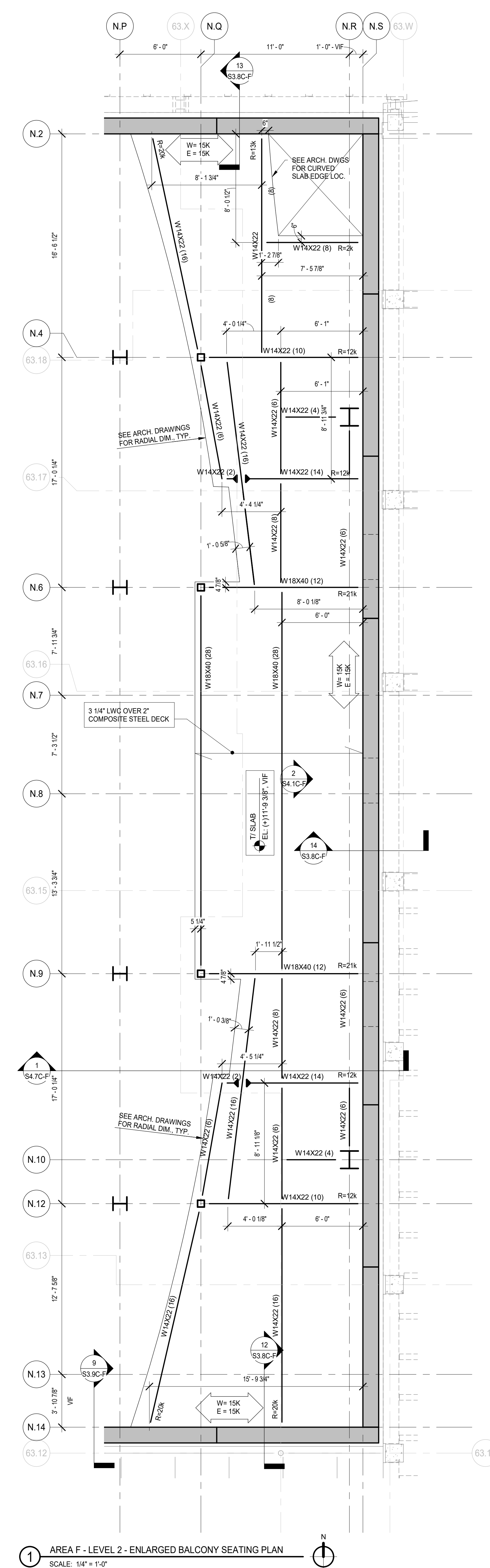
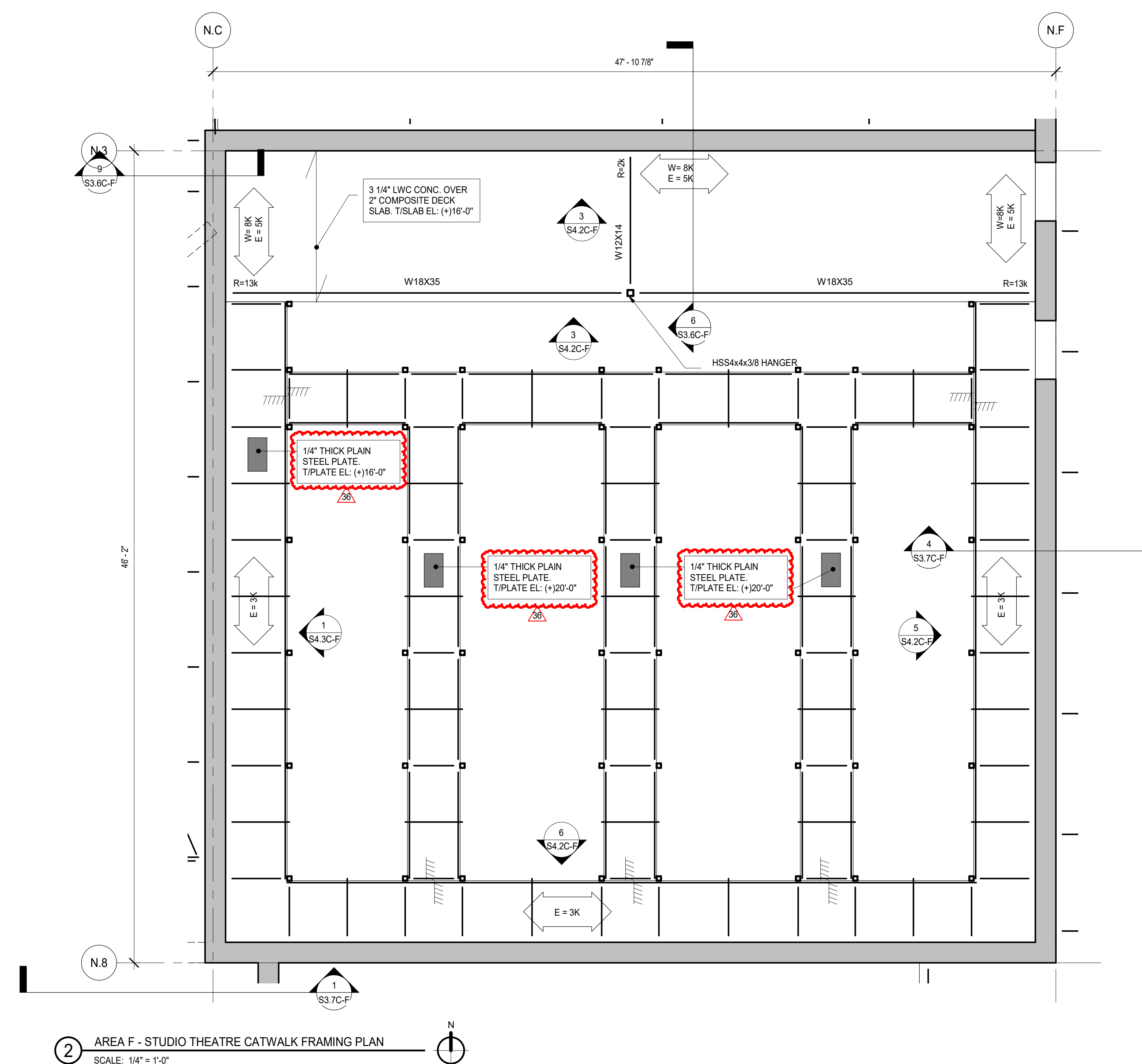
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DOWNERS GROVE, IL 60516

ENLARGED PLANS

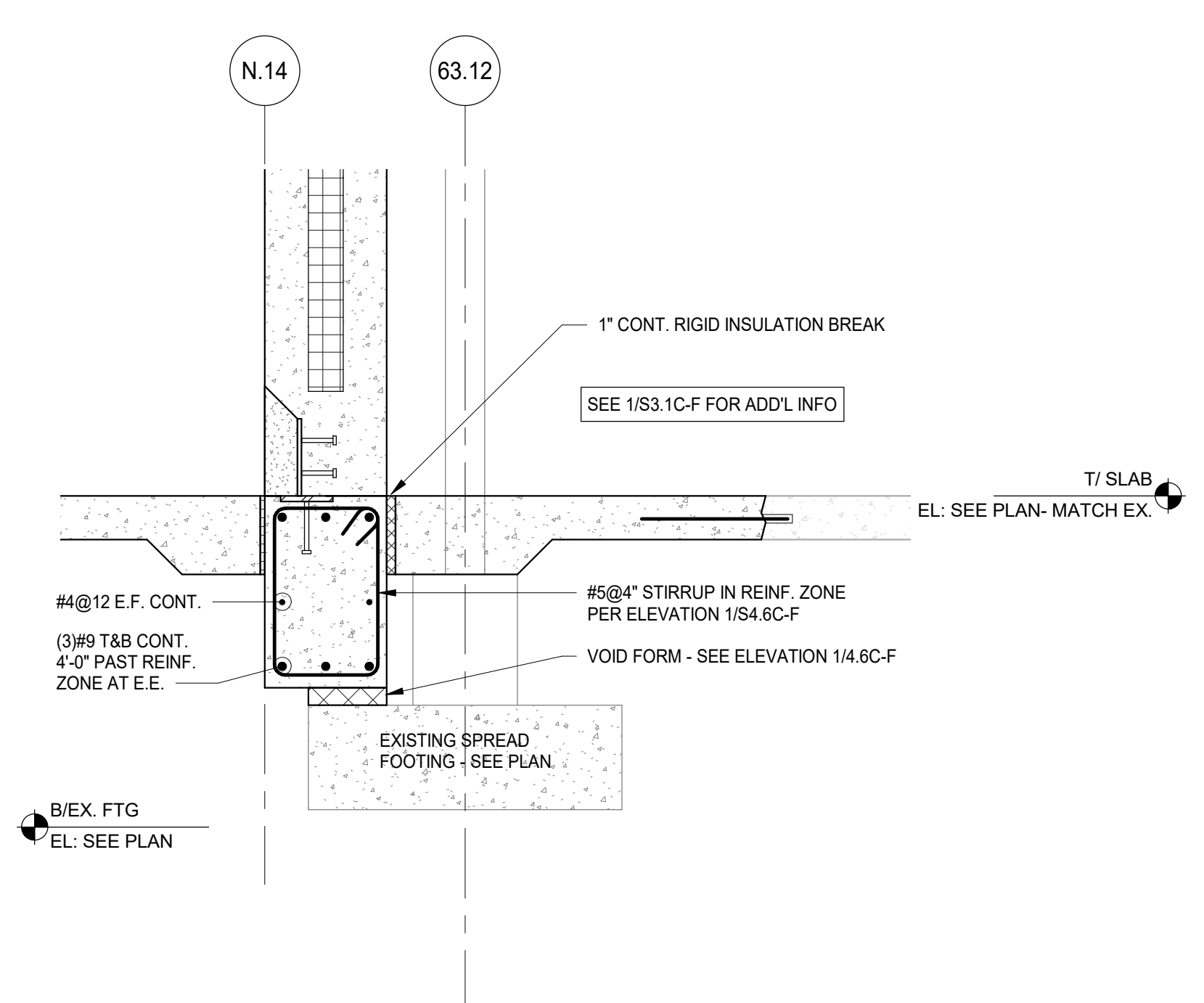
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Drawn By:
J.G.
Sheet:

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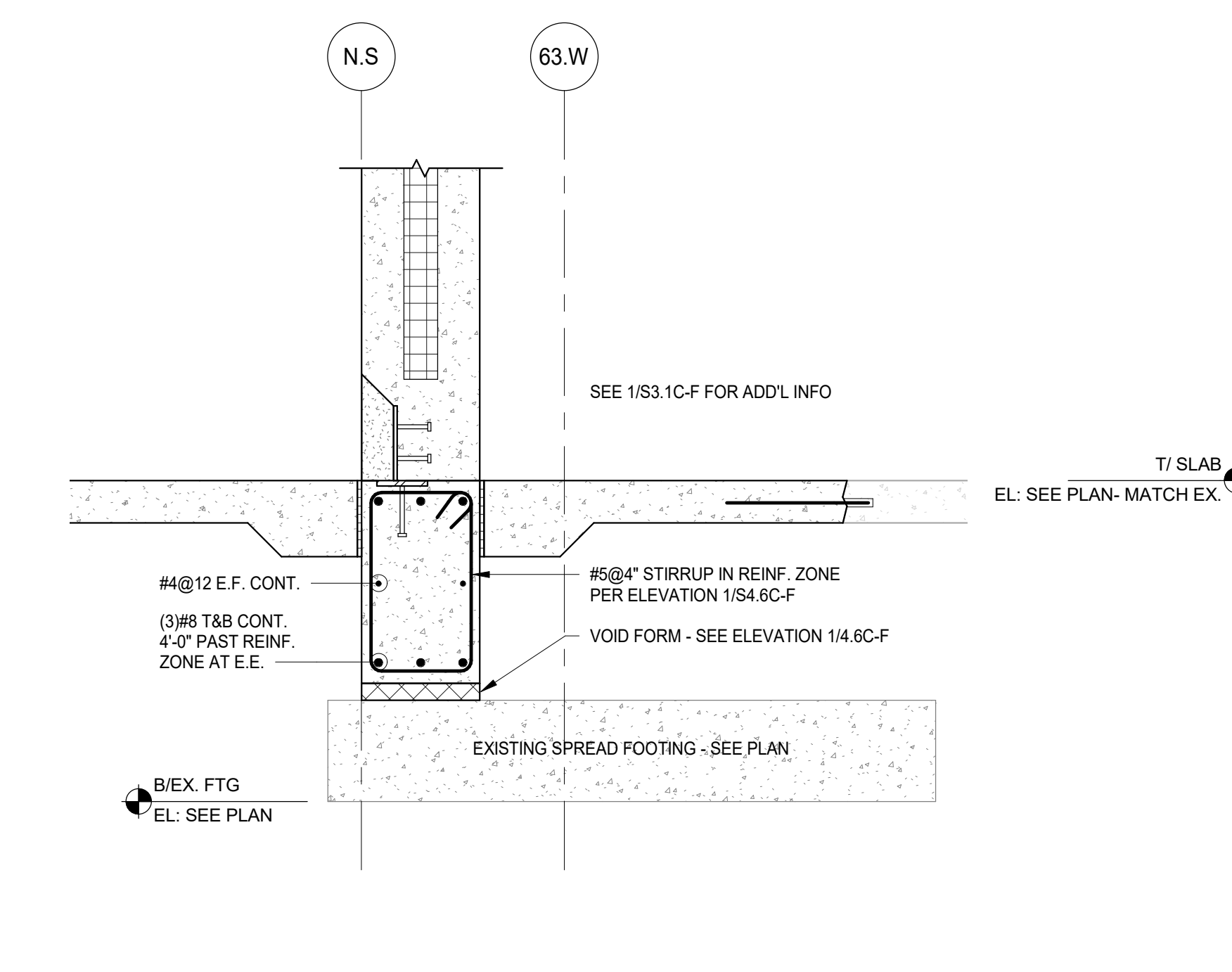
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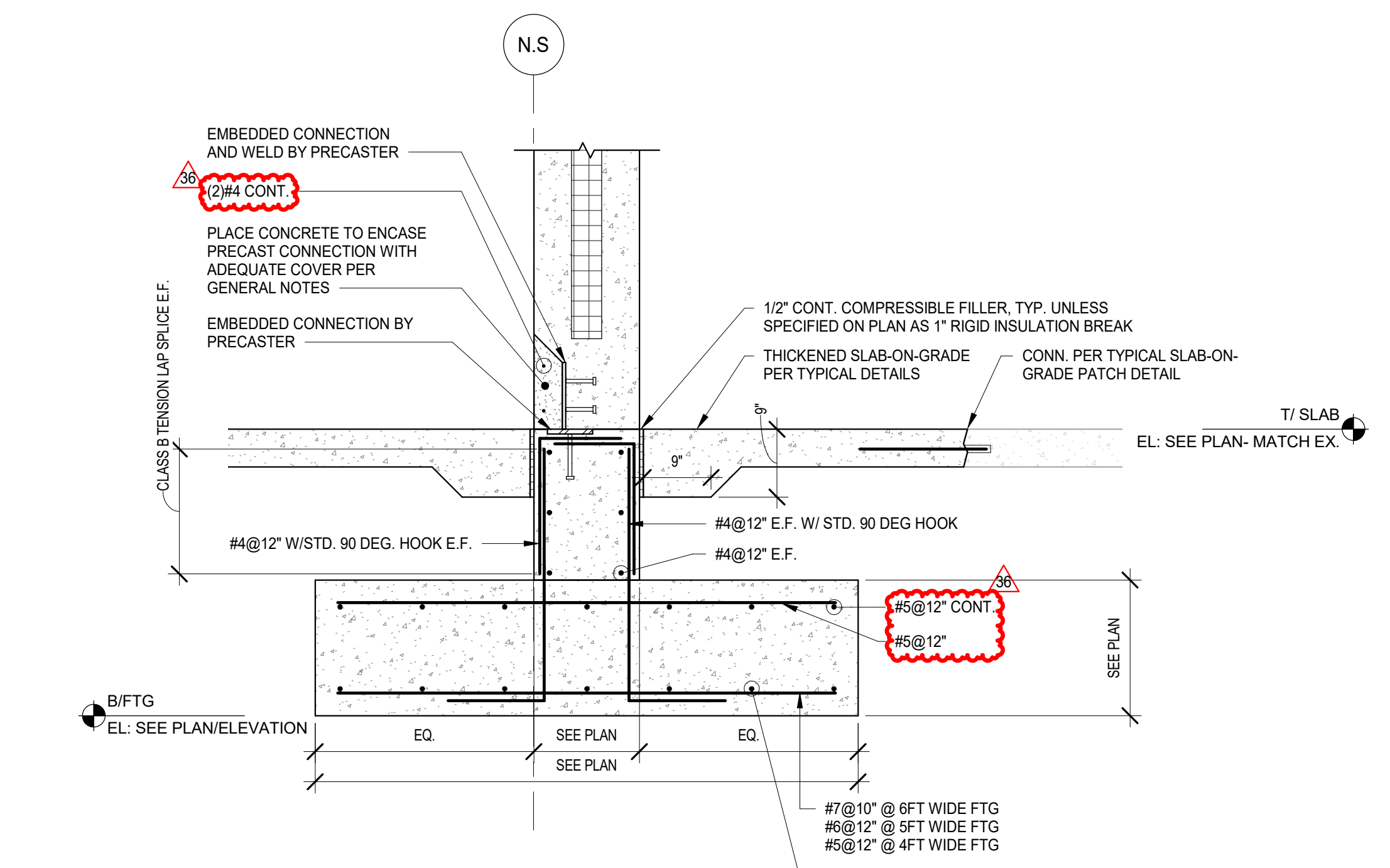
NOT FOR CONSTRUCTION



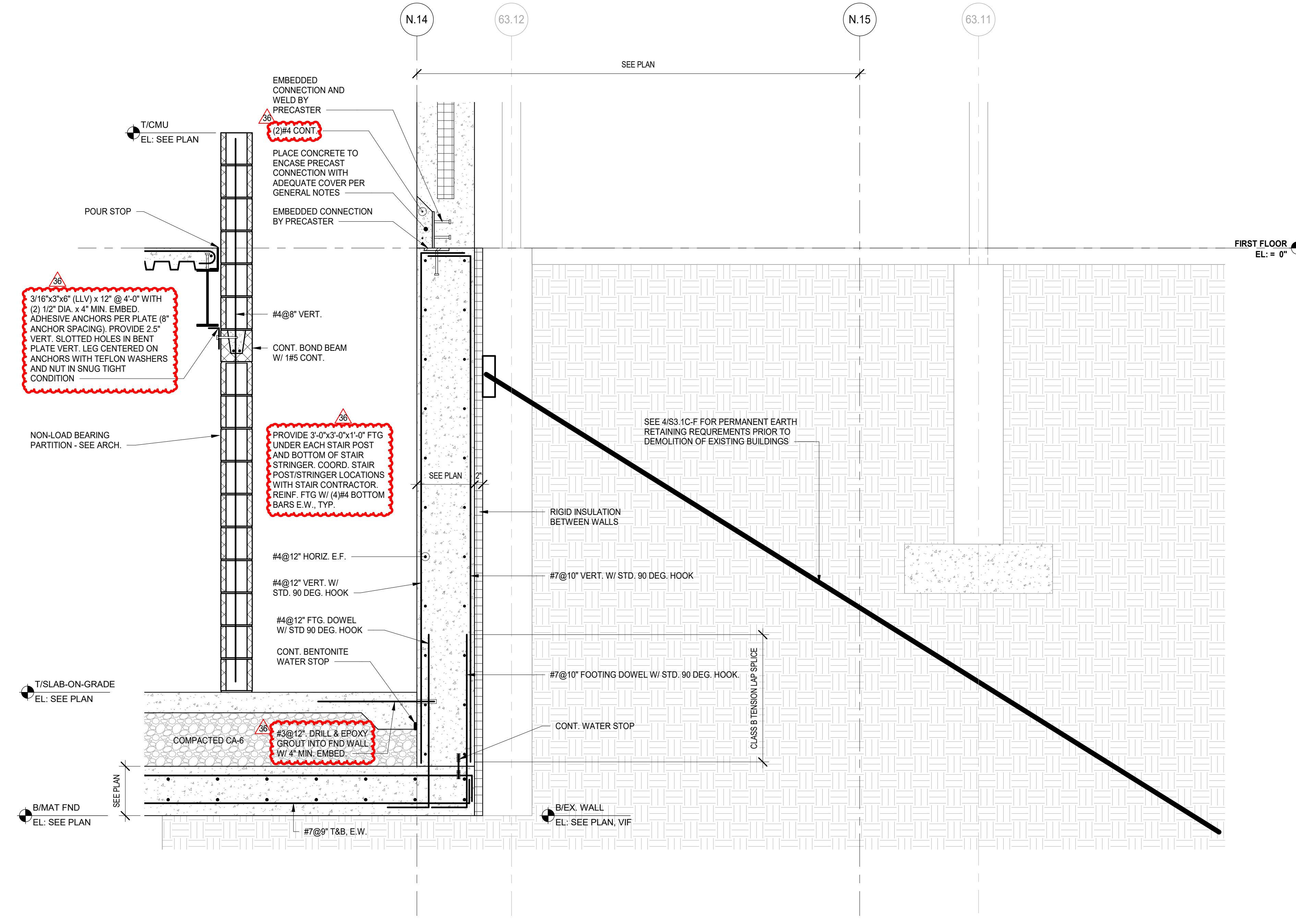
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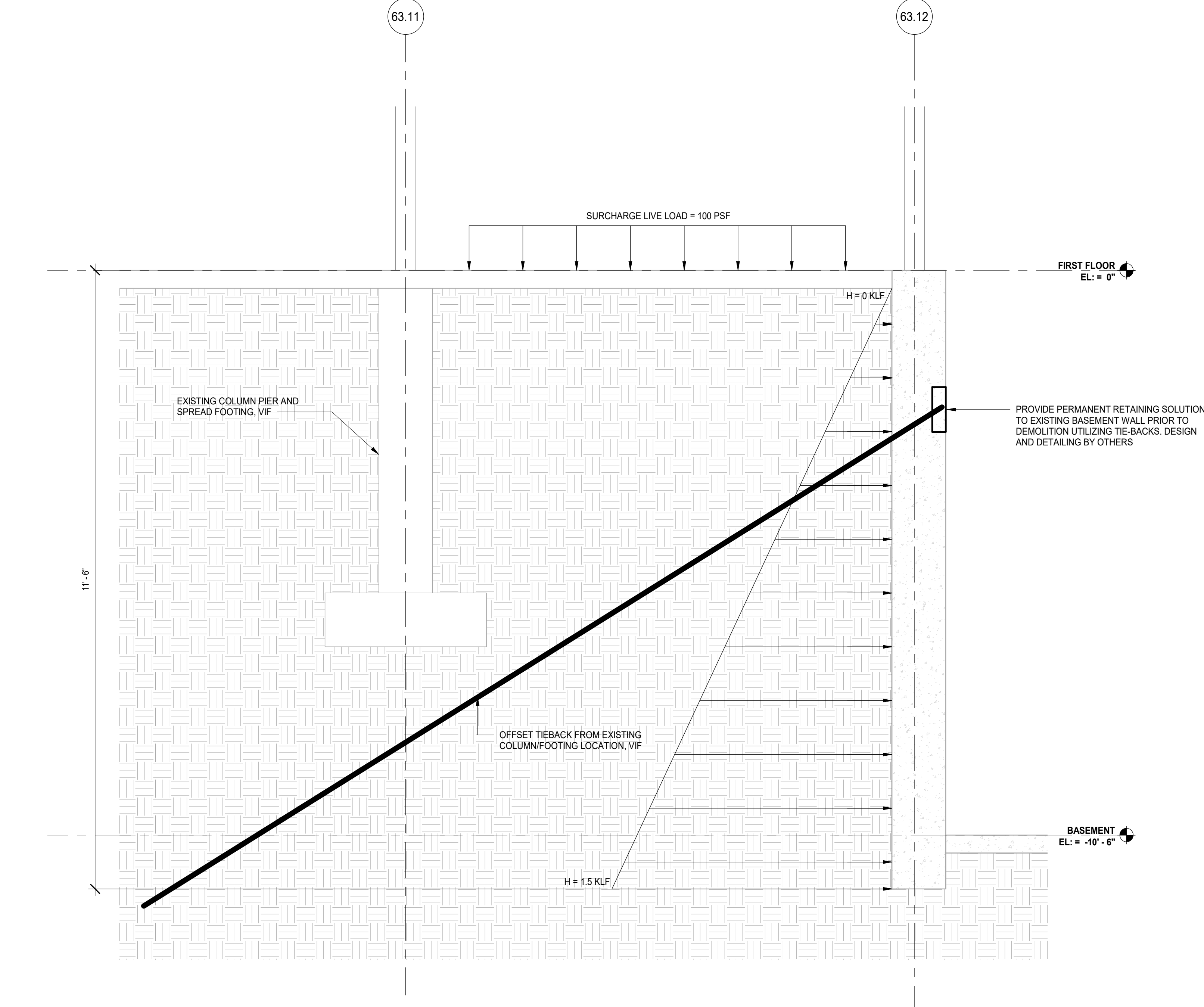
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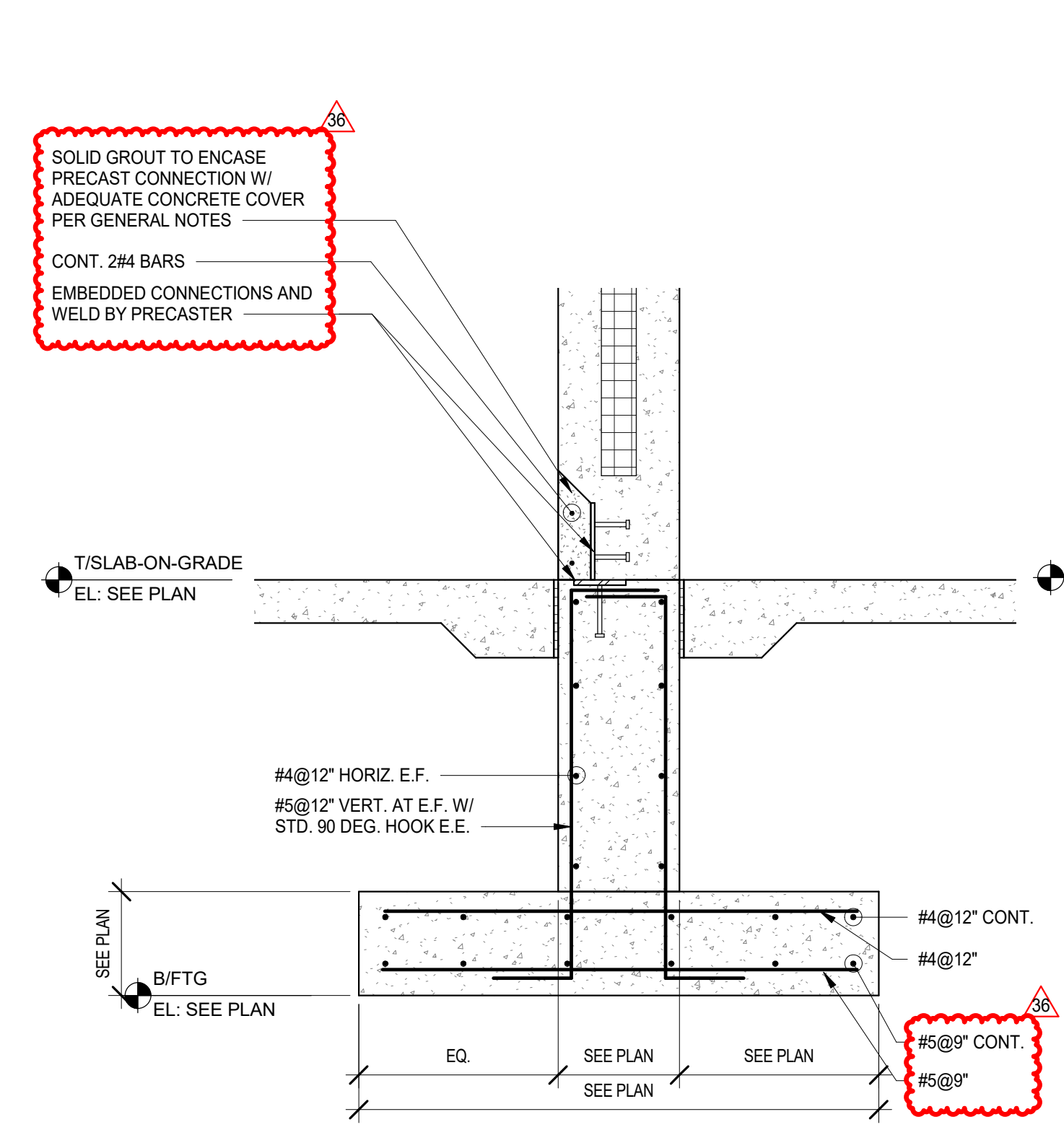
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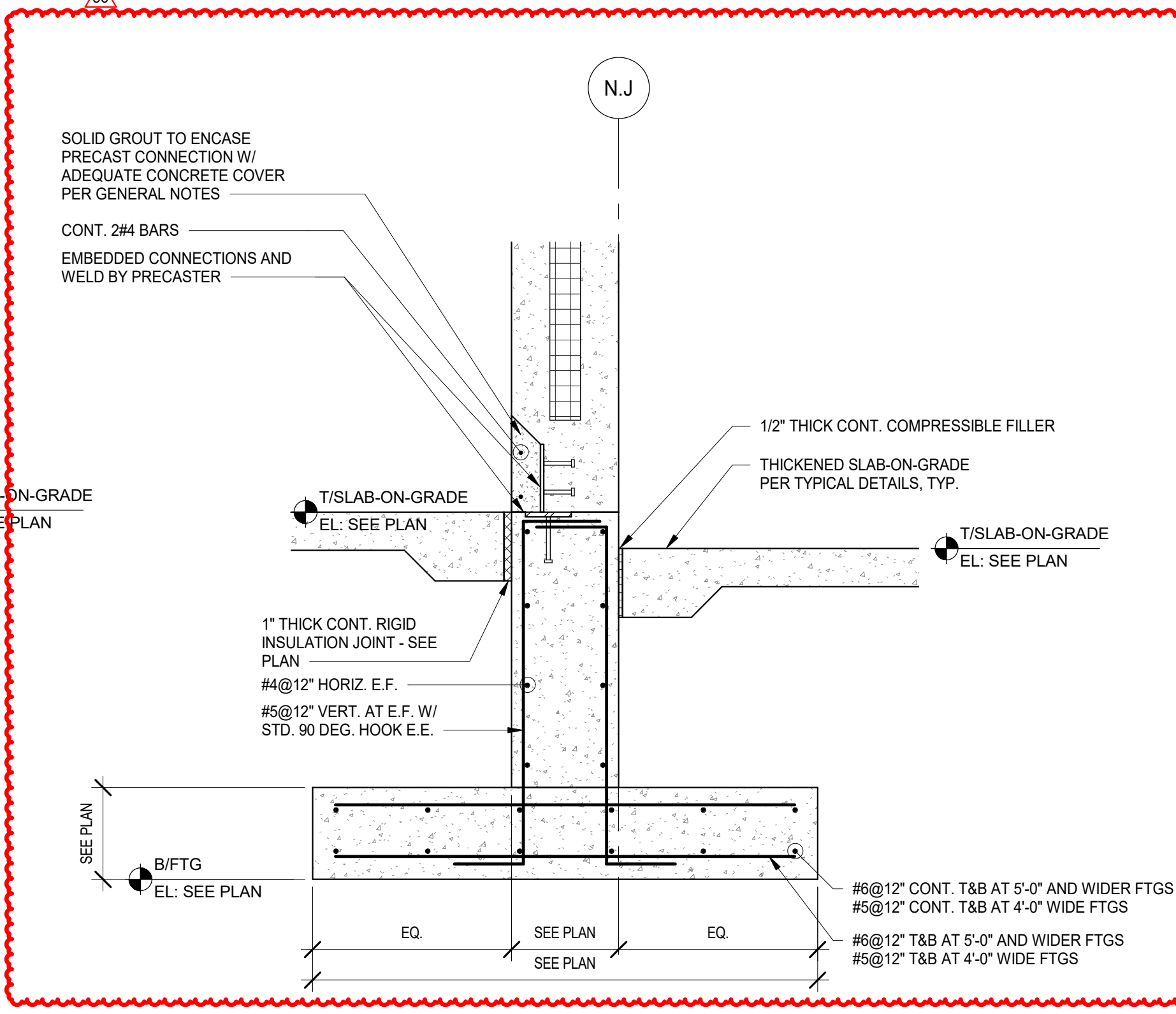
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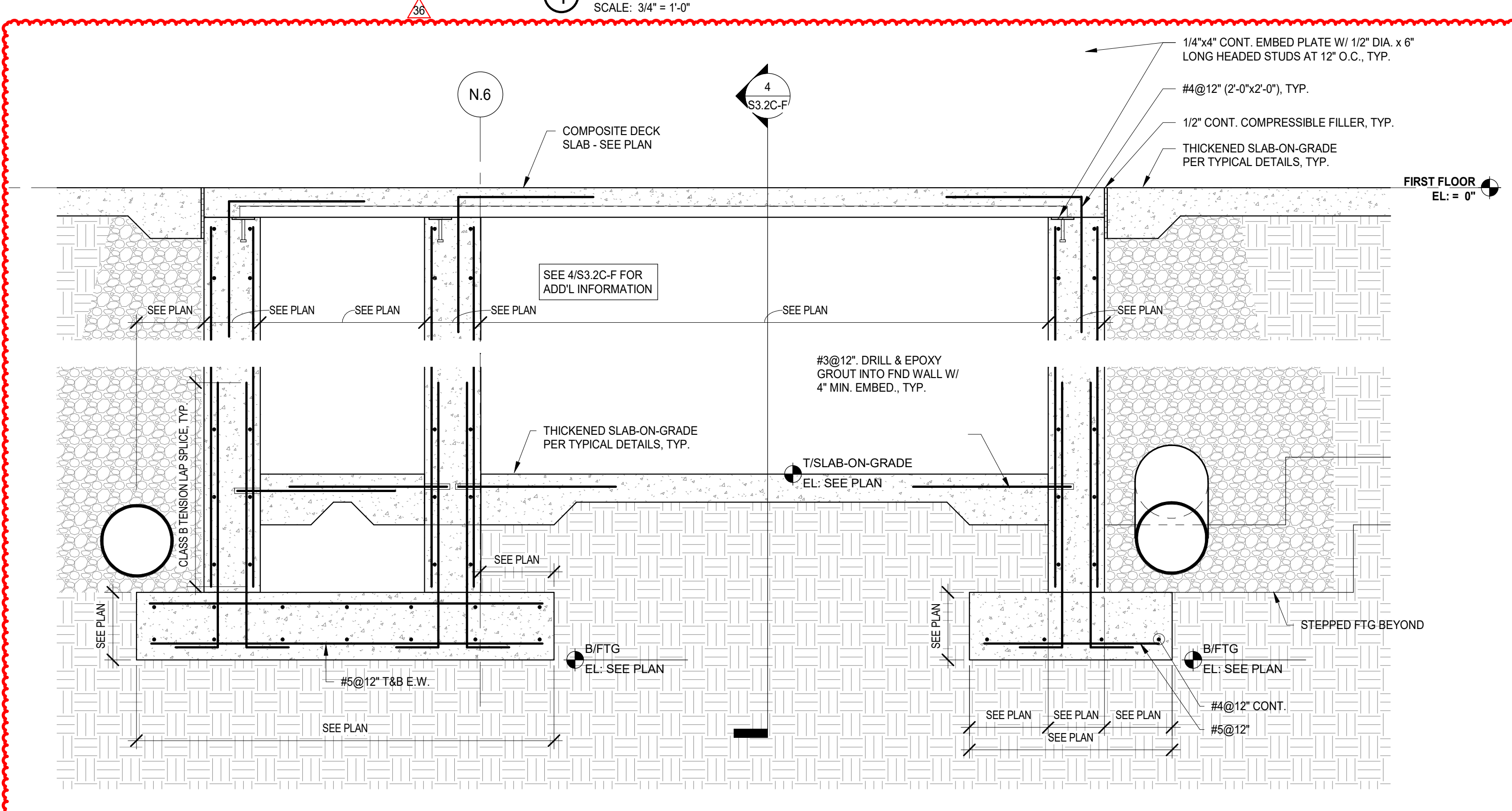
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SCALE: 3/4" = 1'-0"



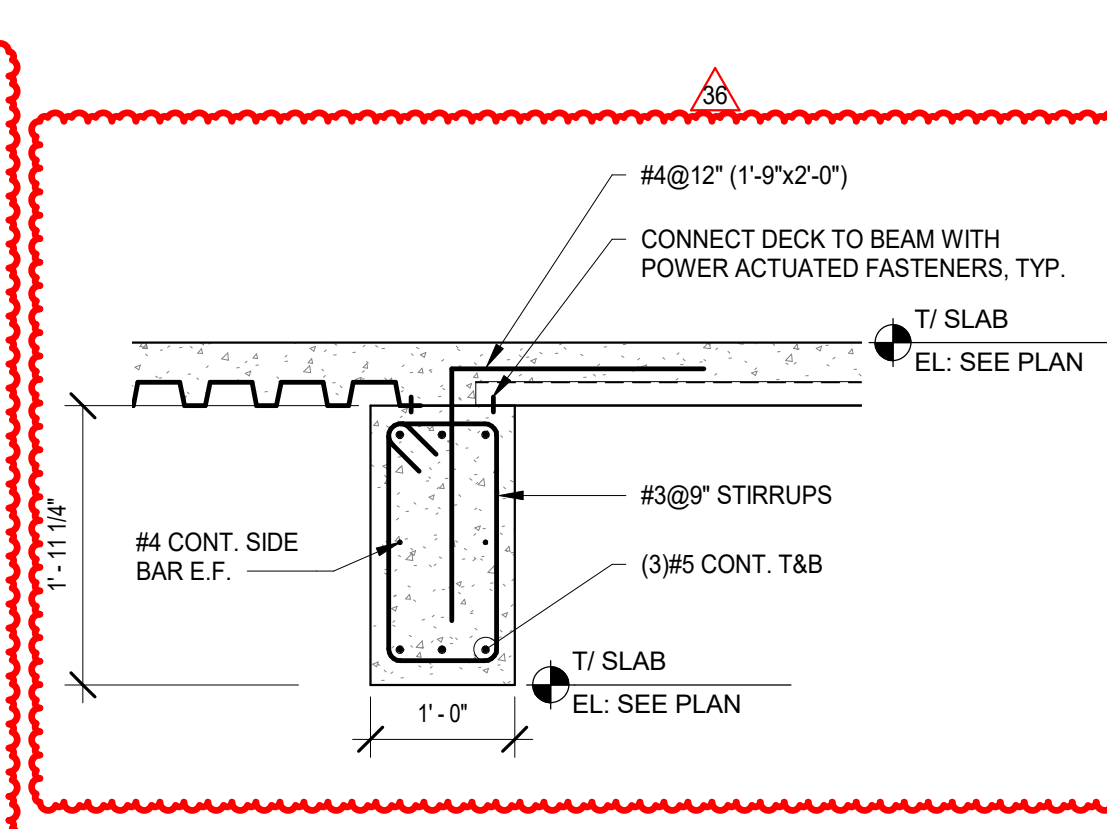
9 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



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



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



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

36 ADDENDUM 2 - BGS
ISSUED FOR BID GROUP'S PHASE C 12.04.2019
ISSUED FOR 90% CD - PHASE C 11.20.2019
ISSUED FOR 75% CD - PHASE C 11.12.2019
ISSUED FOR 25% CD - PHASE C 8.30.2019
REV DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

NON-TYPICAL SECTIONS AND DETAILS

Project Number:
5274-42
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J.G.
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36 ADDENDUM 2 - BGS 12.04.2019
ISSUED FOR BID GROUP & PHASE C 11.20.2019
ISSUED FOR 90% CD - PHASE C 11.1.2019
ISSUED FOR 75% CD - PHASE C 10.14.2019
ISSUED FOR 25% CD - PHASE C 8.30.2019
REV ISSUE DATE

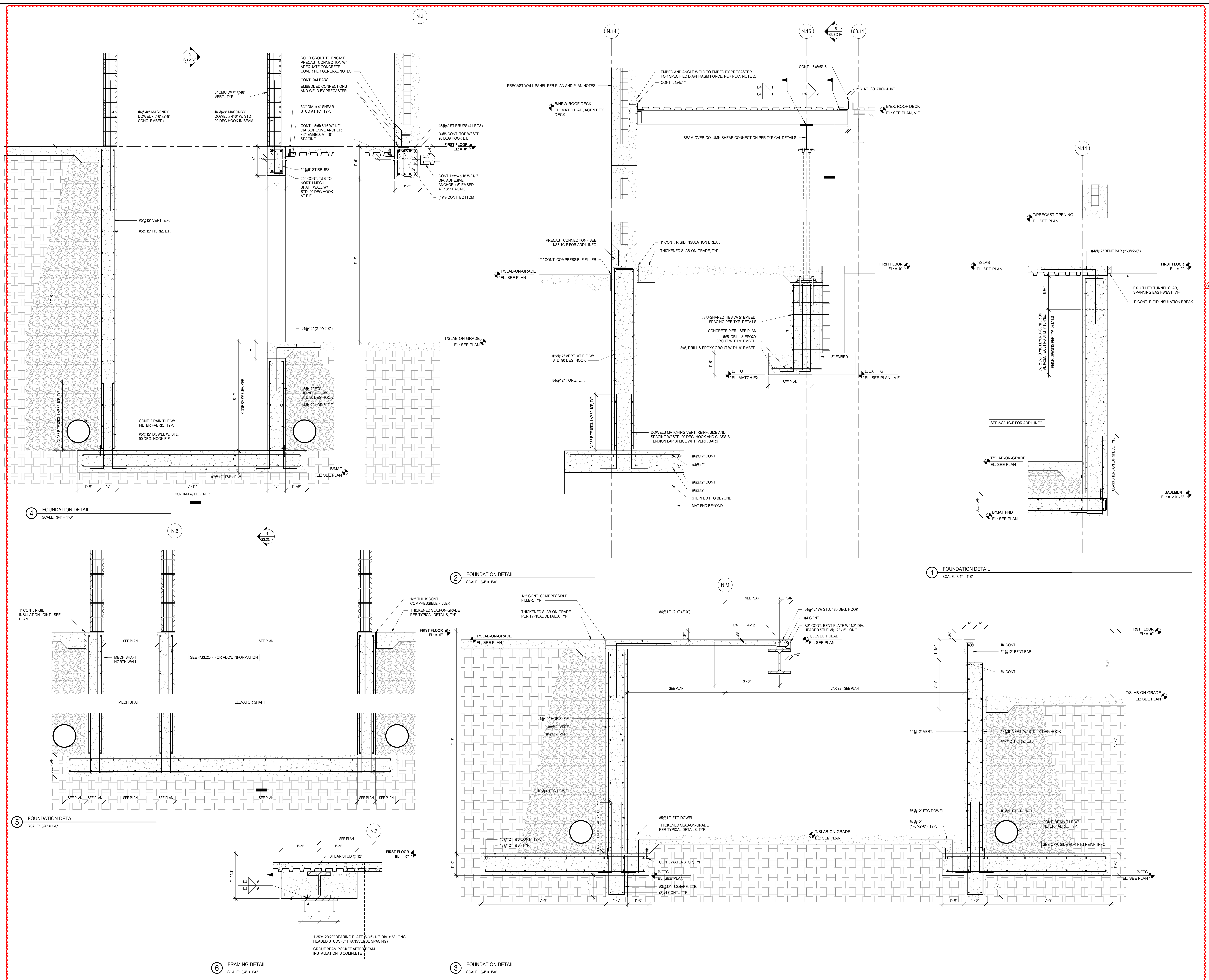
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1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

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36	ADDENDUM 2 - BGS	12.04.2019
	ISSUED FOR BID GROUP B PHASE C	11.20.2019
	ISSUED FOR 90% CD - PHASE C	11.12.2019
	ISSUED FOR 75% CD - PHASE C	10.14.2019
	ISSUED FOR 25% CD - PHASE C	8.30.2019
REV	ISSUE	DATE

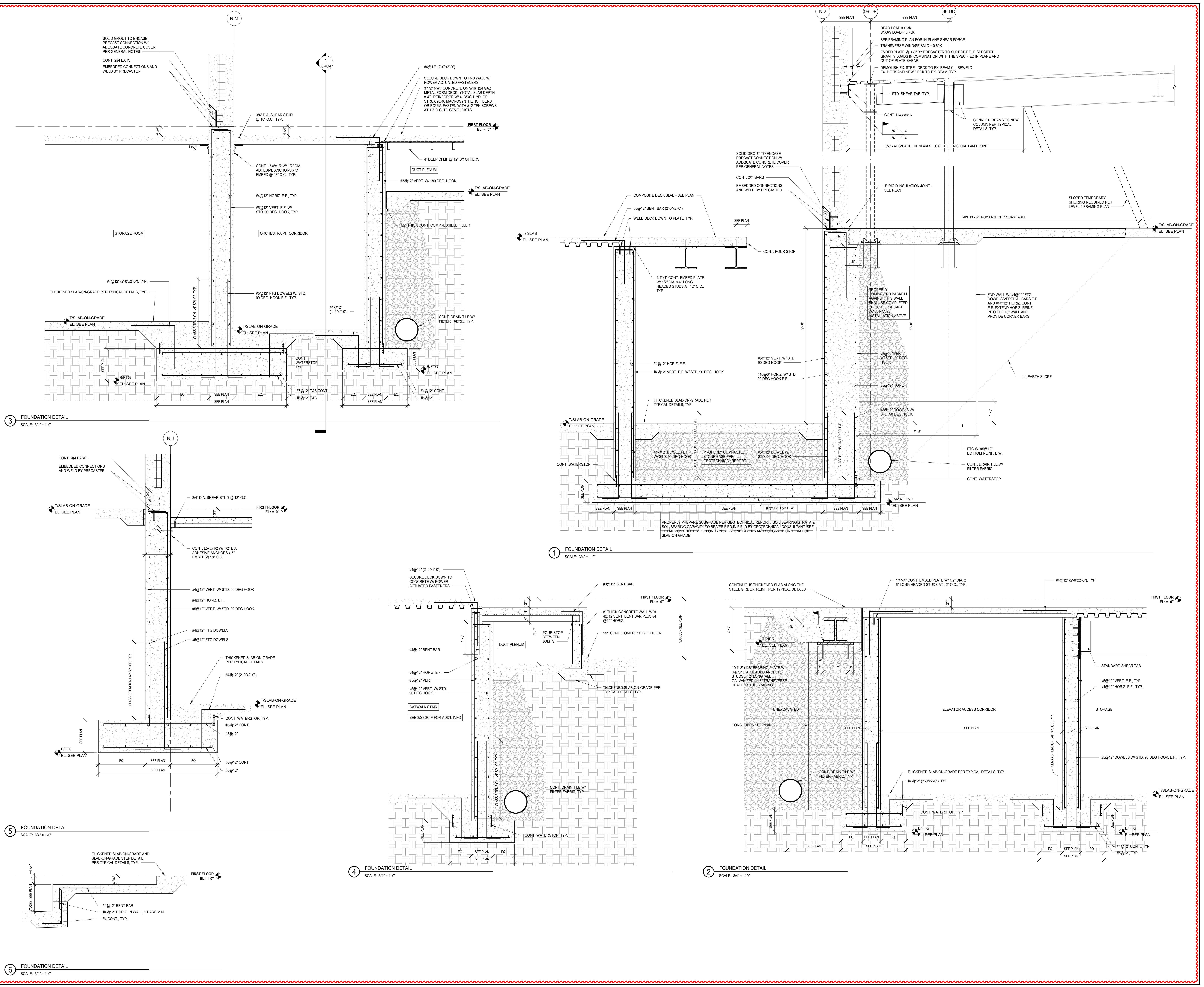
MFP IMPLEMENTATION - SOUTH

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DOWNERS GROVE, IL 60516

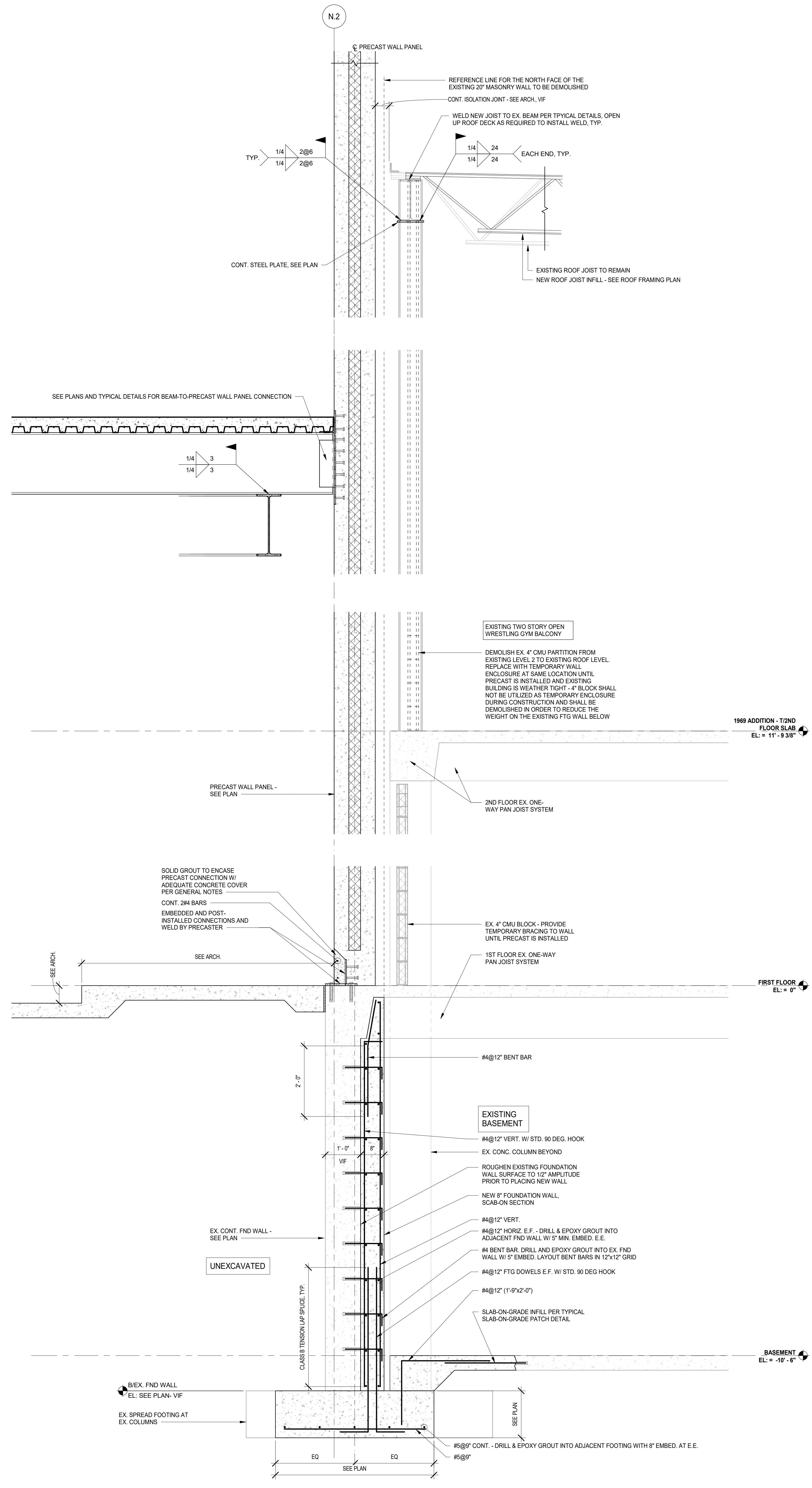
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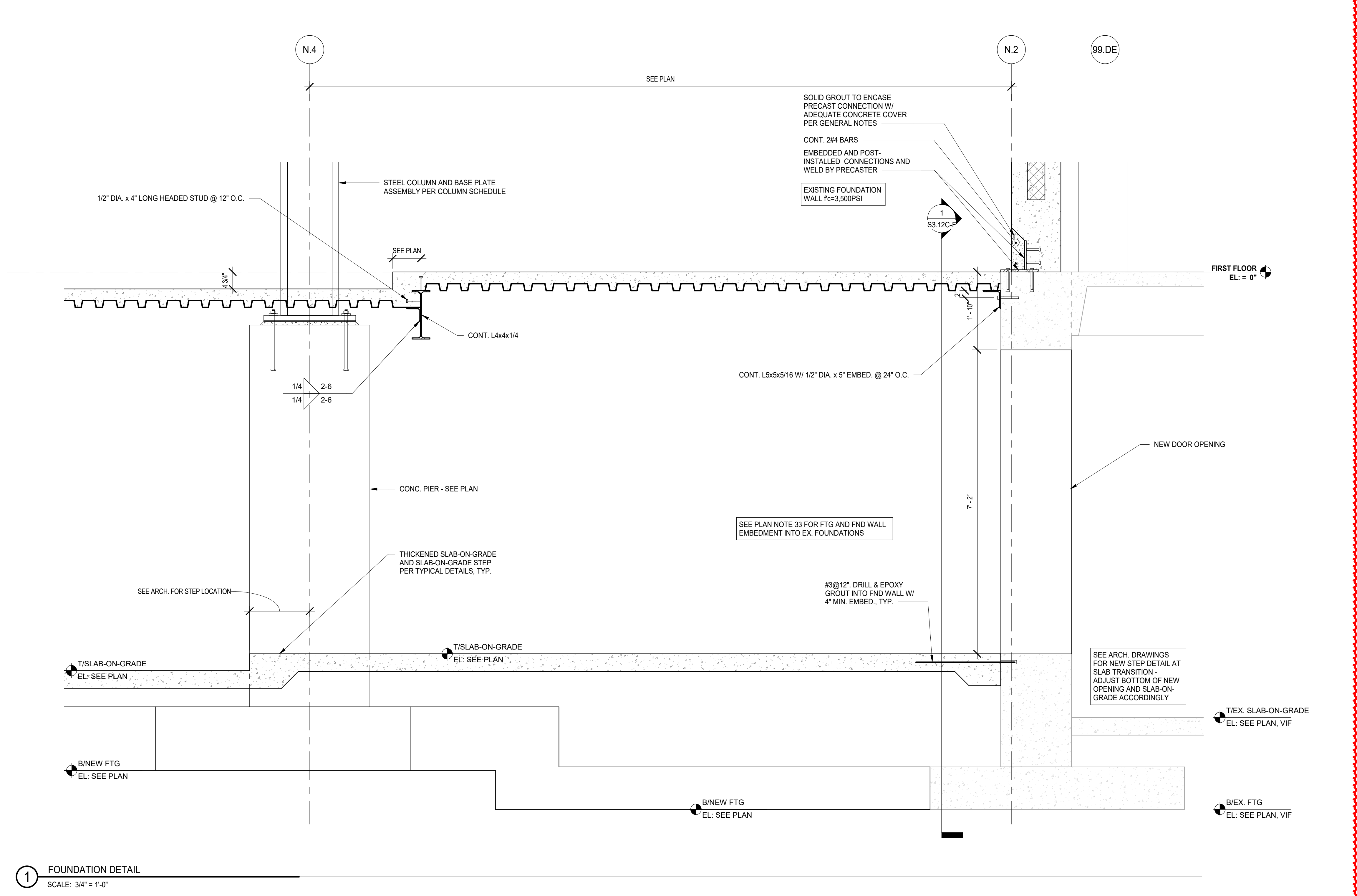
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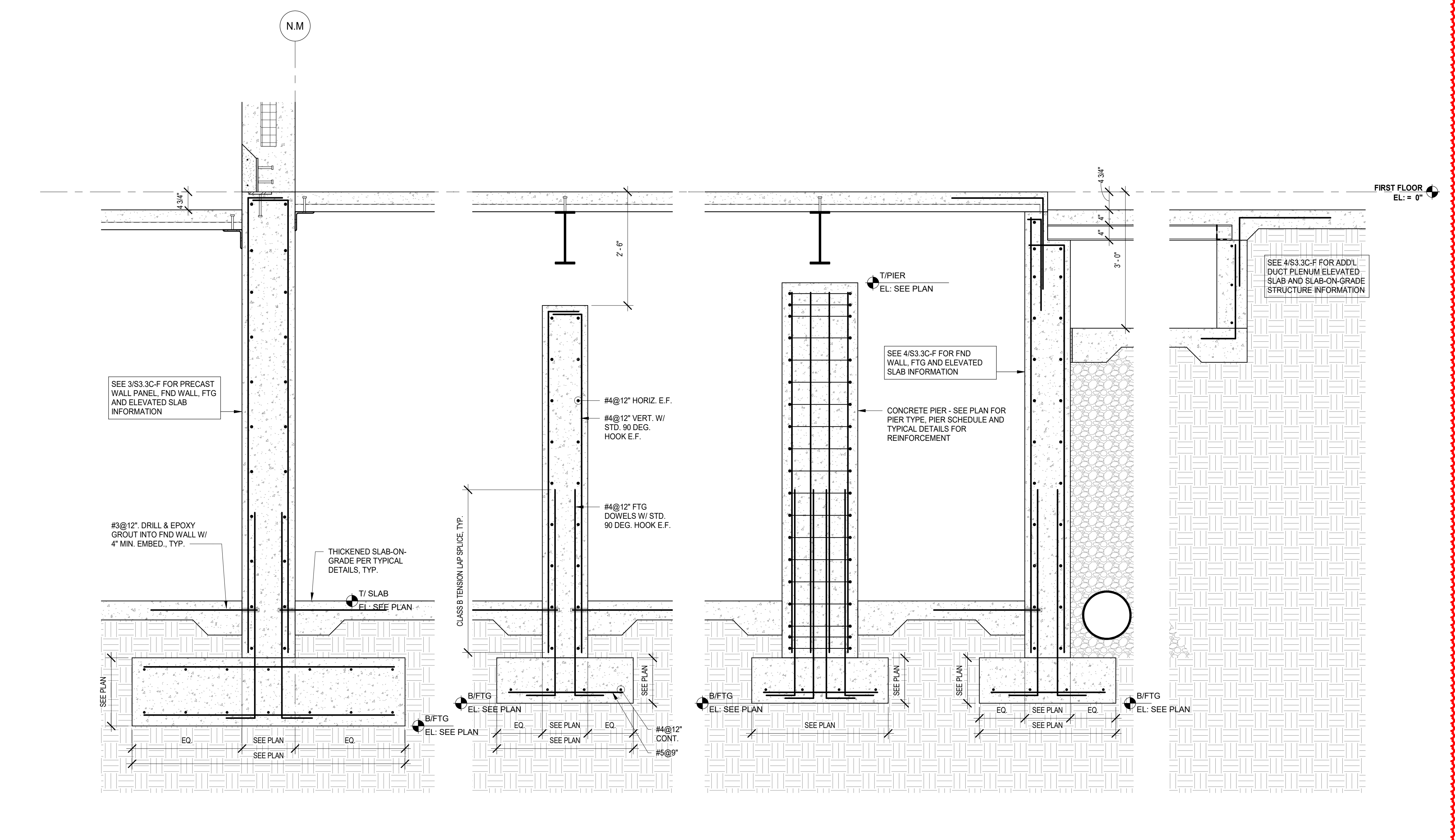
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1 FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"



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



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

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36 ADDENDUM 2 - BGS 12.04.2019
ISSUED FOR BID GROUP B-PHASE C 11.20.2019
REV. ISSUE DATE

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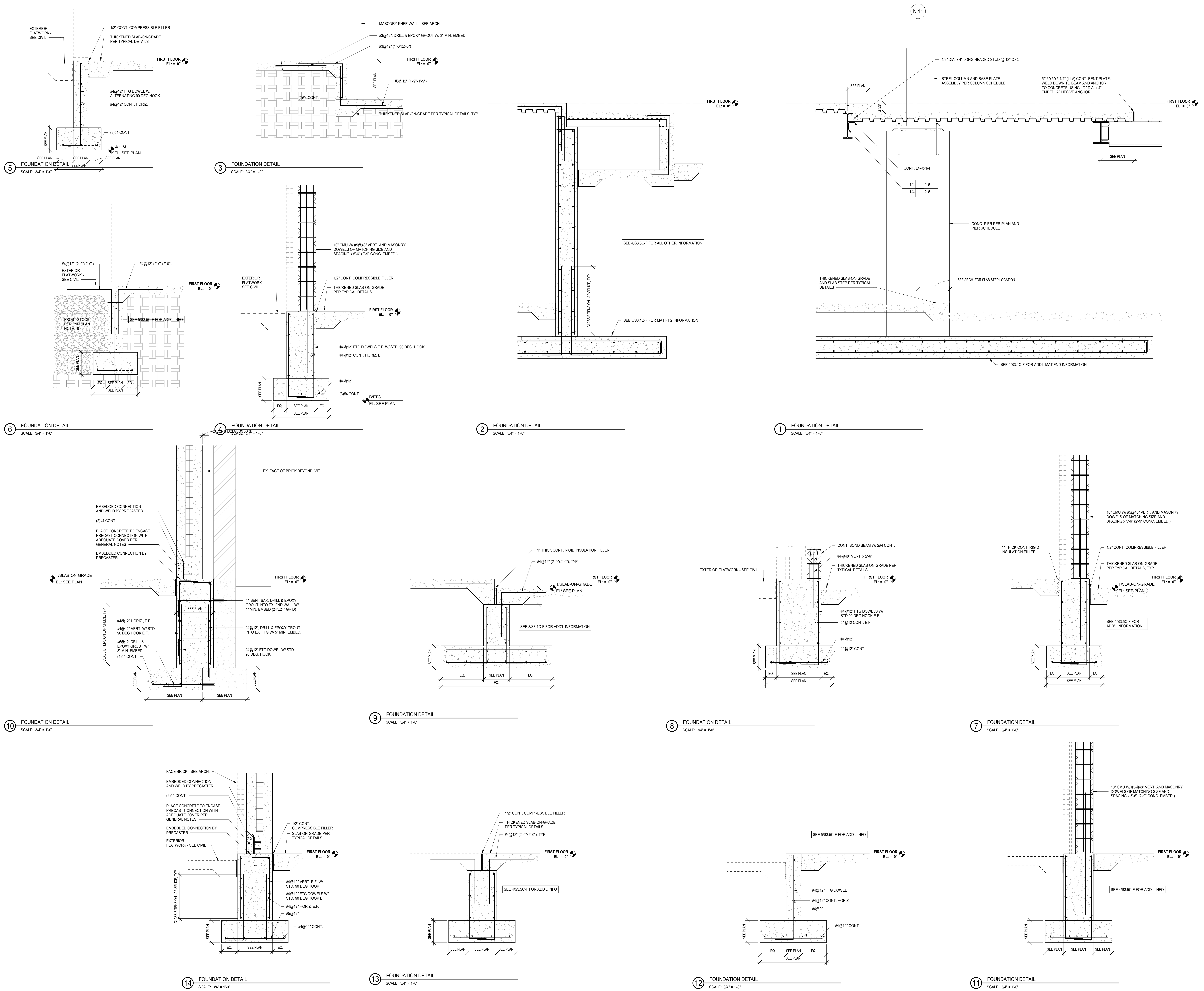
1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

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5274-42
Drawn By:
J.G.
Sheet:

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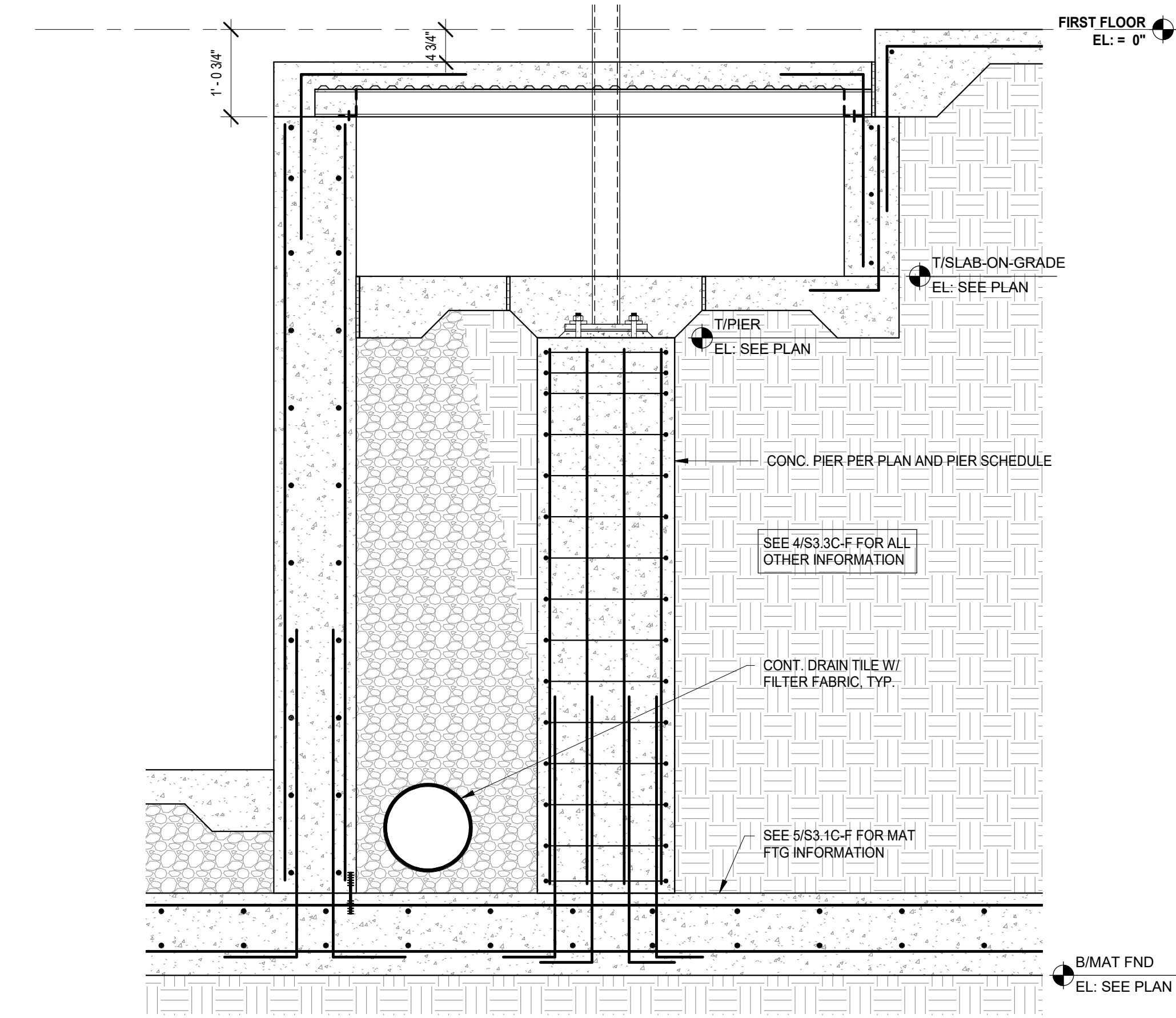
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REV ISSUE DATE

MFP IMPLEMENTATION - SOUTH

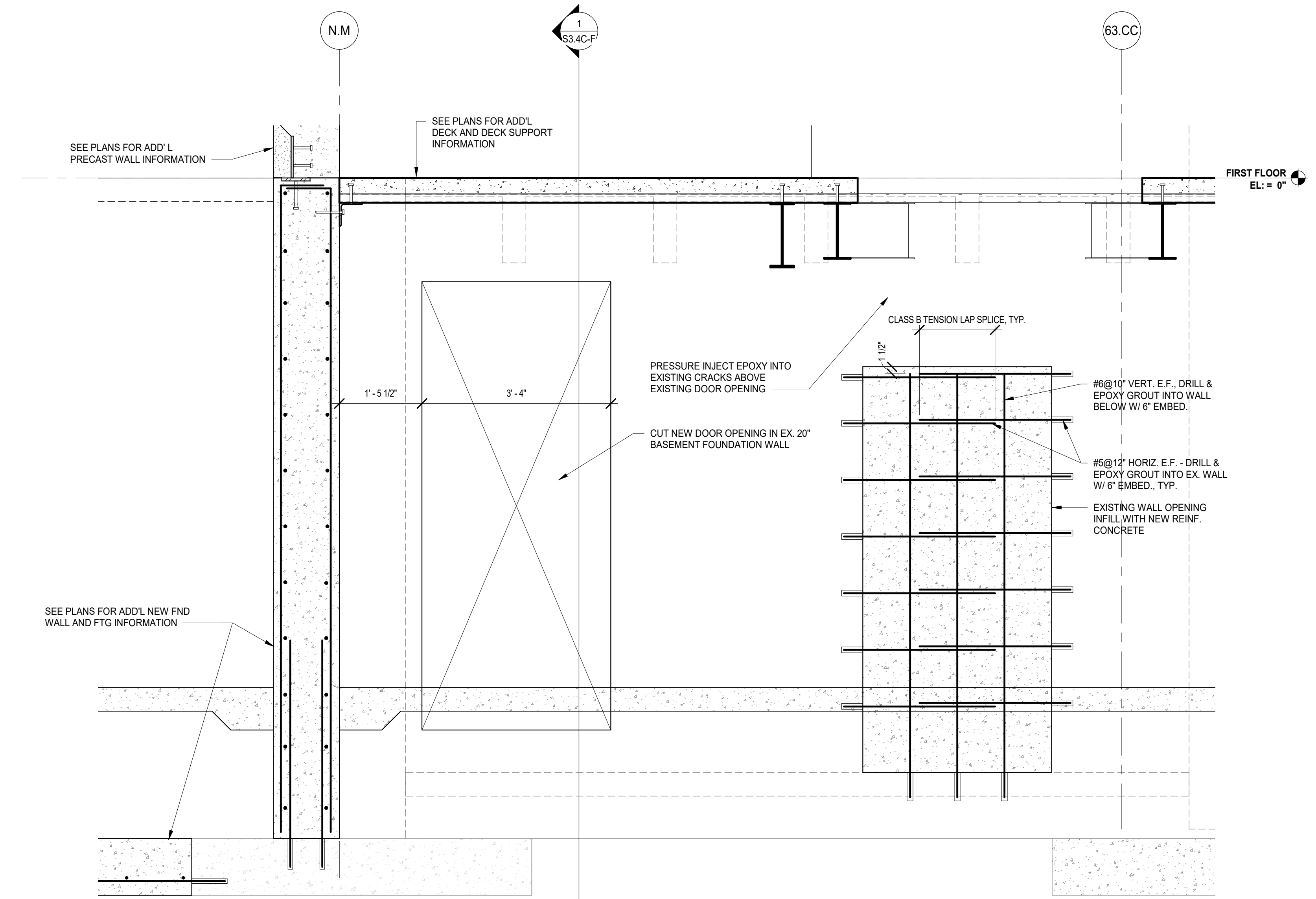
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DOWNERS GROVE, IL 60516

NON-TYPICAL SECTIONS AND DETAILS

Project Number: 5274-42
Drawn By: J.G.
Sheet: S3.5C-F



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



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

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36 ADDENDUM 2 - BGR 12.04.2019
REV REV ISSUE DATE

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1436 NORFOLK STREET
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36 ADDENDUM 2 - BCB 12/04/2019
ISSUED FOR BID GROUP B-PHASE C 11/20/2019
ISSUED FOR 75% CD - PHASE C 10/14/2019
ISSUED FOR 25% CD - PHASE C 8/30/2019
REV DATE DATE

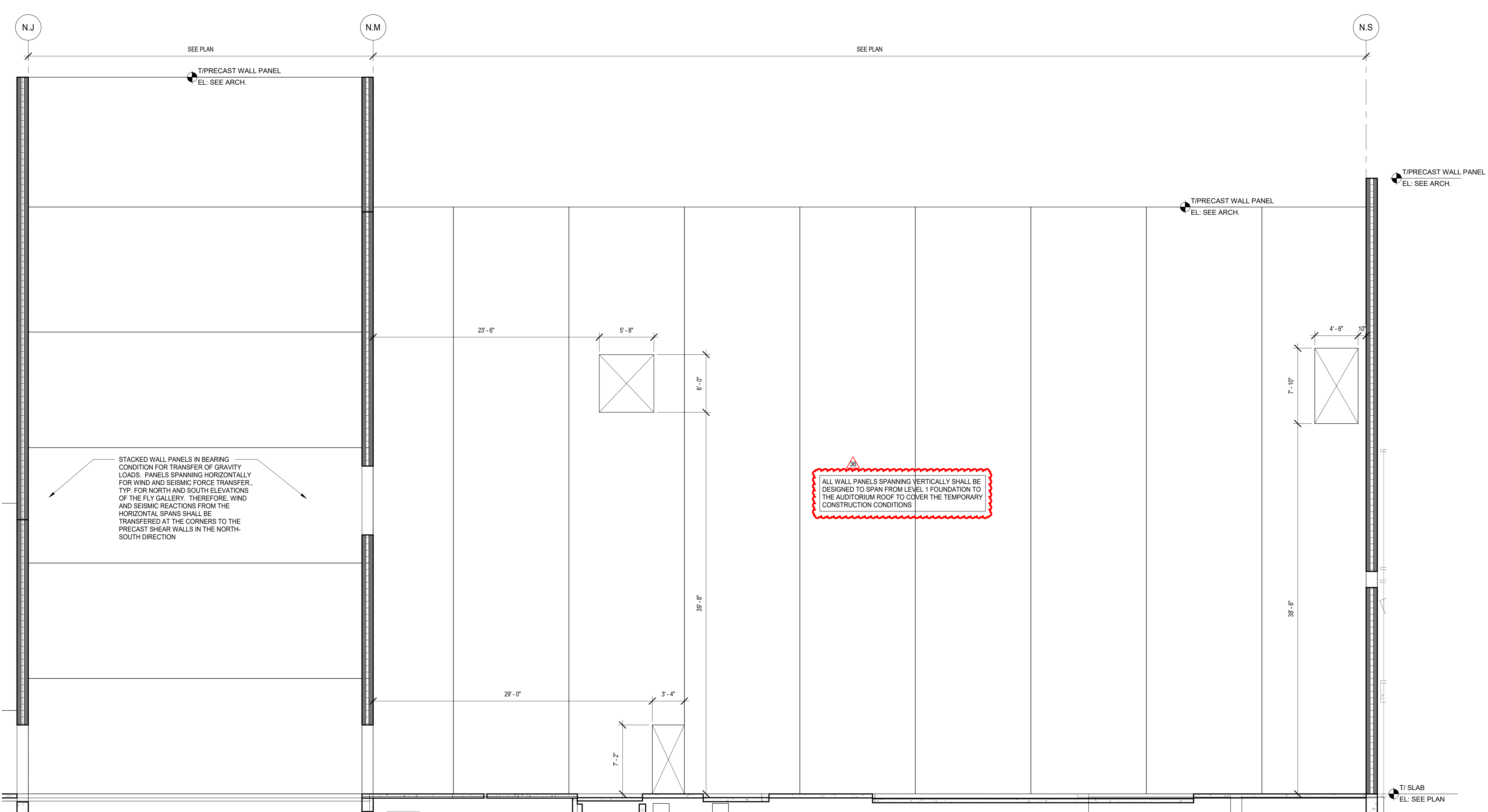
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DOWNERS GROVE, IL 60516

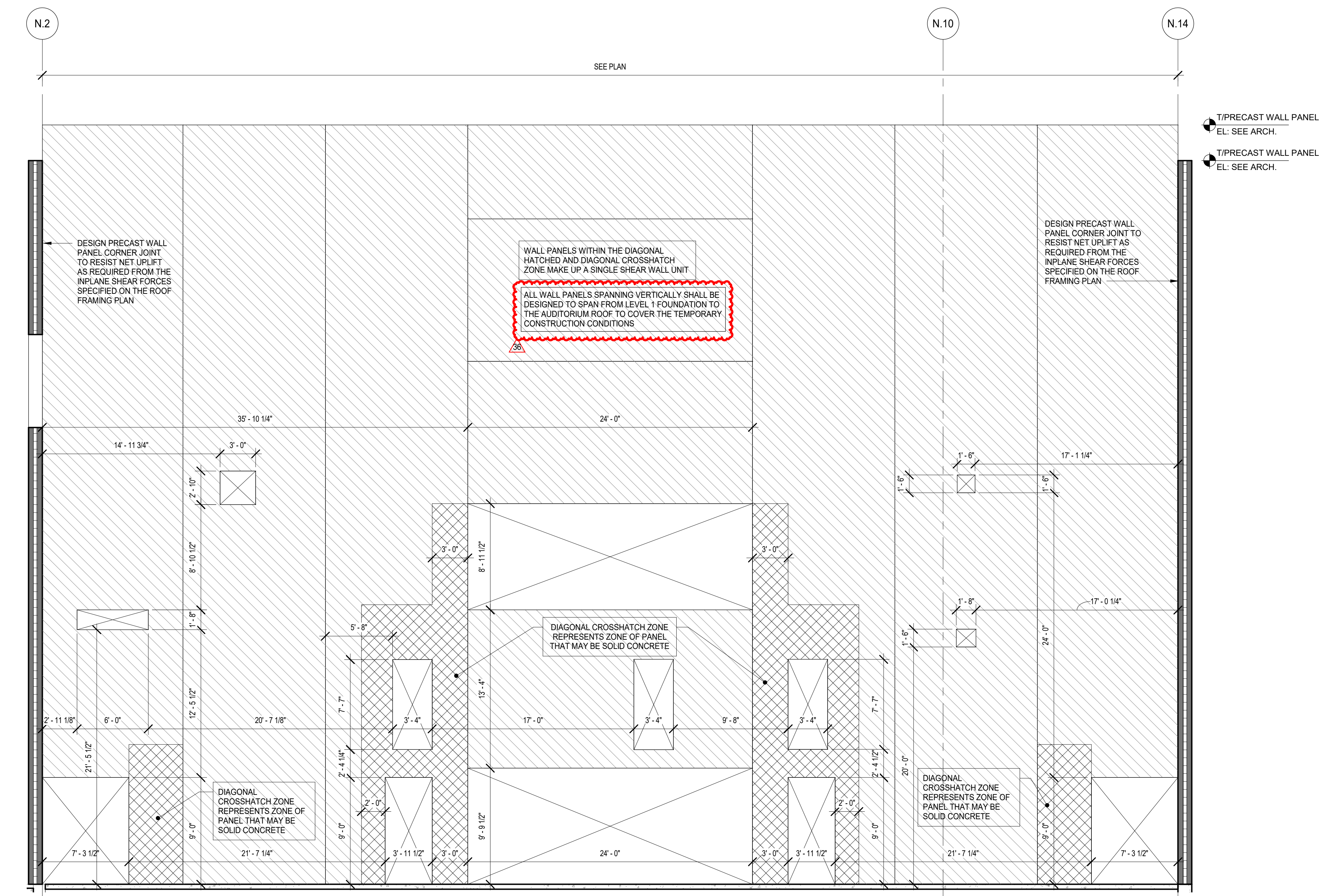
AREA F - PRECAST ELEVATIONS

Project Number:
5274-42
Drawn By:
J.G.
Sheet:

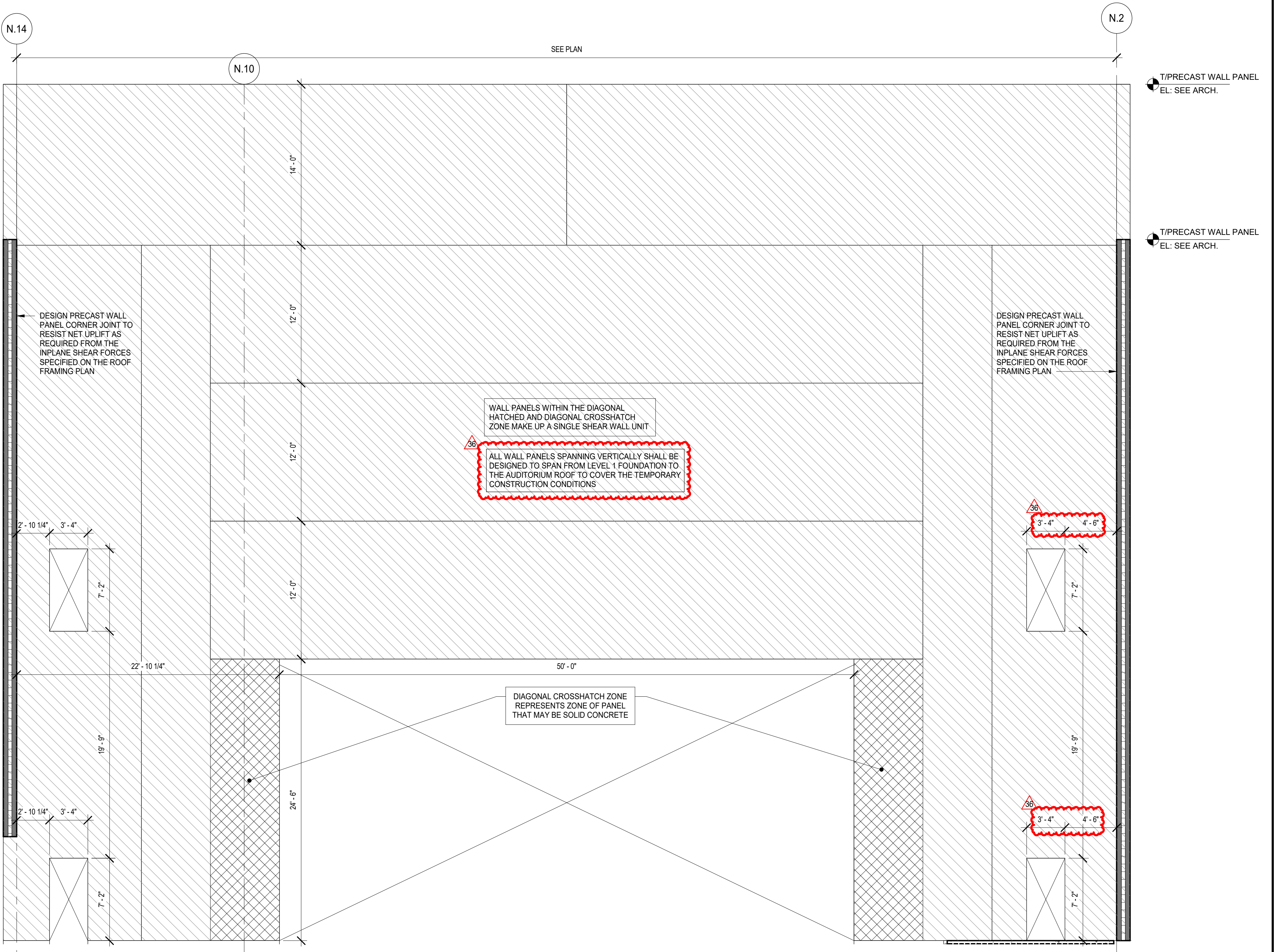
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1 AUDITORIUM FLY GALLERY - NORTH PRECAST ELEVATION
SCALE: 3/16" = 1'-0"

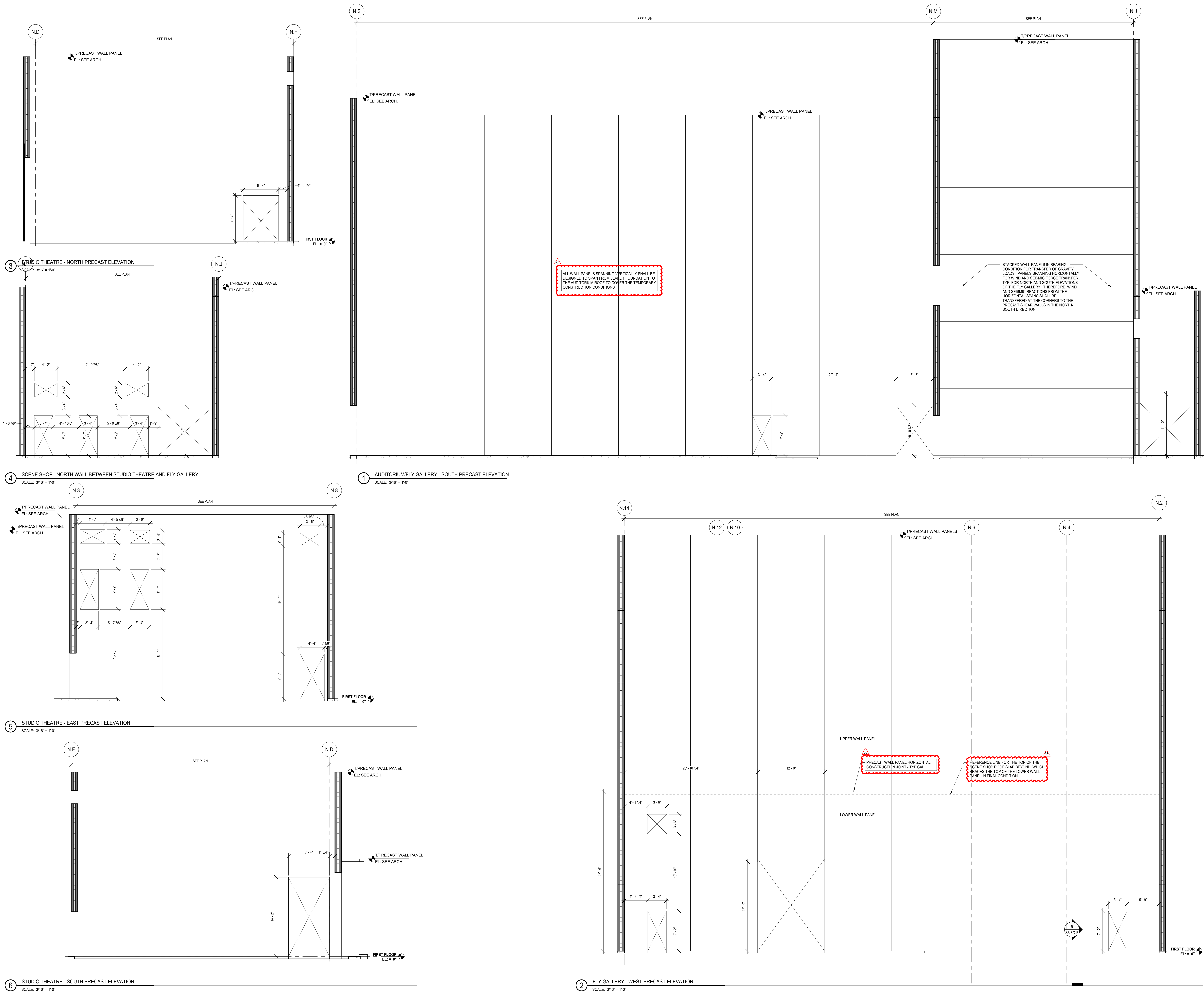


2 AUDITORIUM - EAST PRECAST ELEVATION
SCALE: 3/16" = 1'-0"



3 AUDITORIUM - WEST PRECAST ELEVATION
SCALE: 3/16" = 1'-0"

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MFP IMPLEMENTATION - SOUTH

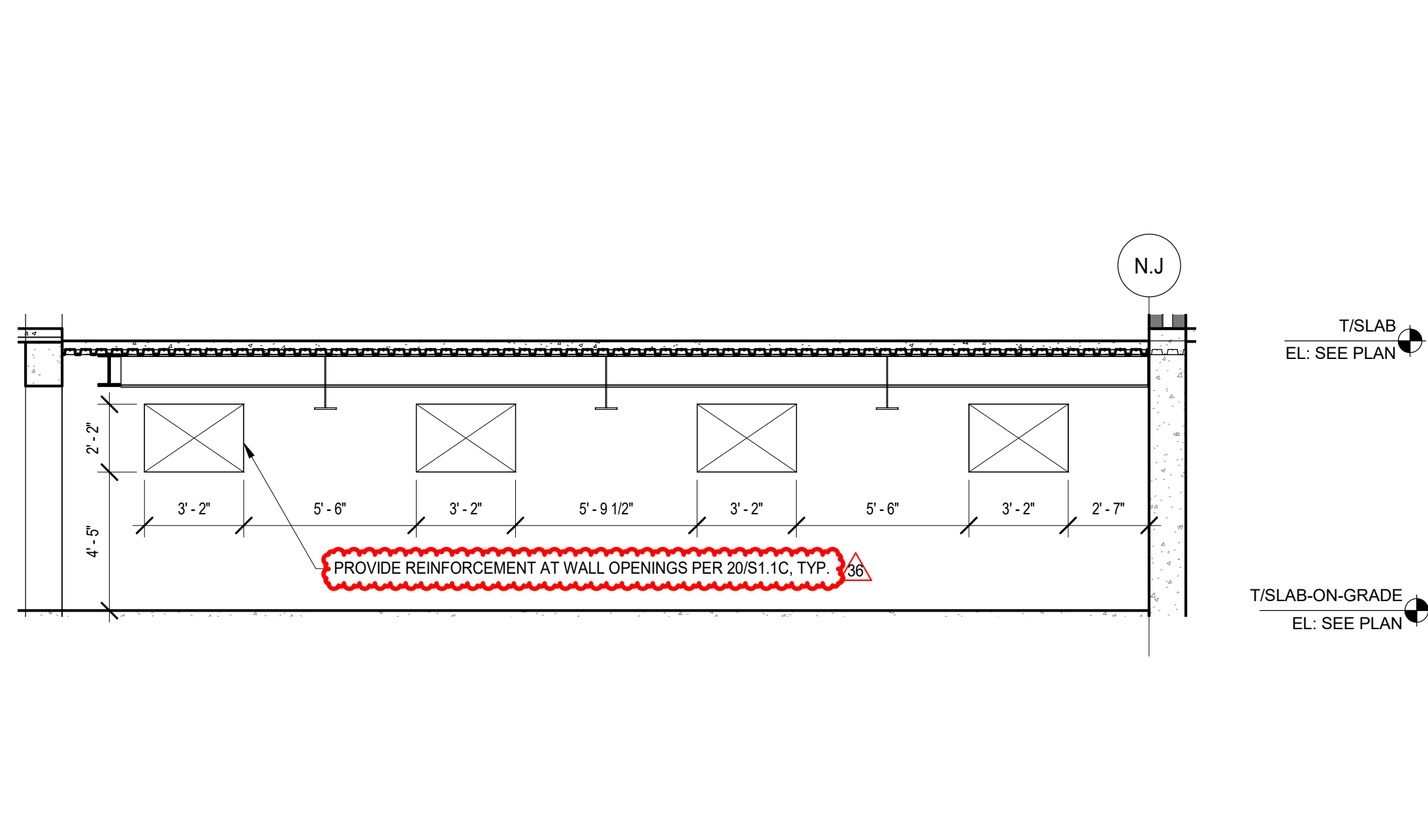
1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

AREA F PRECAST ELEVATIONS

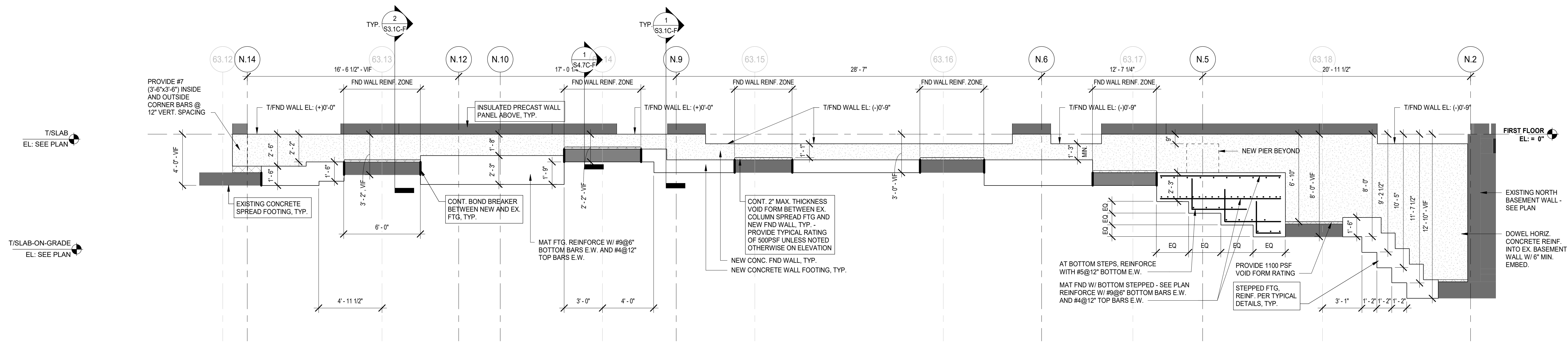
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Drawn By:
J.G.
Sheet:

S4.2C-F

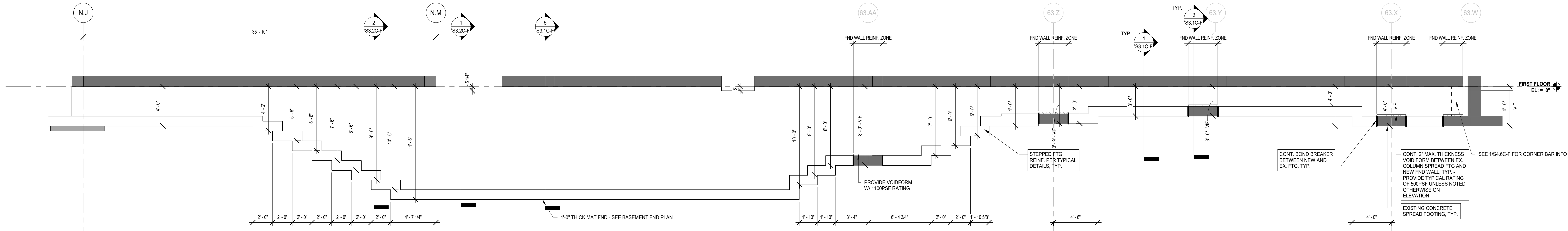
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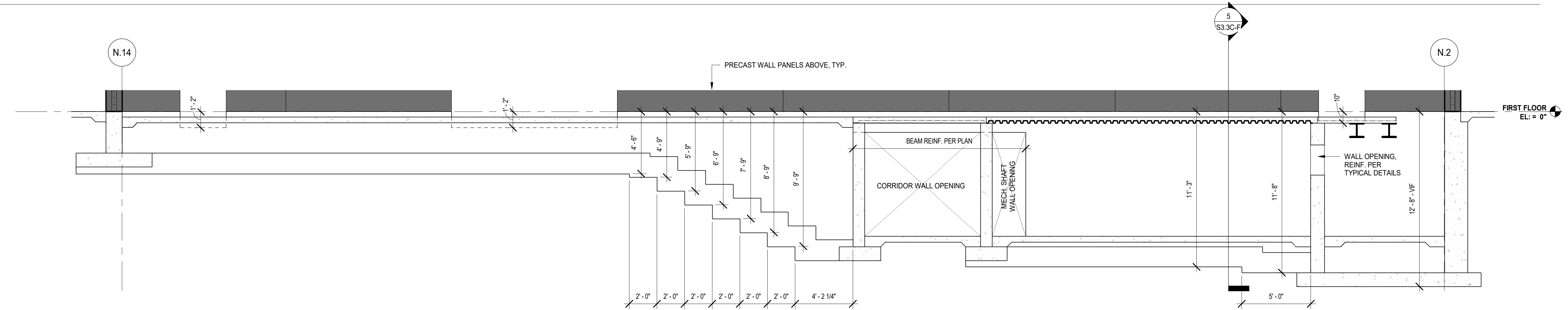
2 BASEMENT CONCRETE WALL ELEVATION
SCALE: 1/4" = 1'-0"



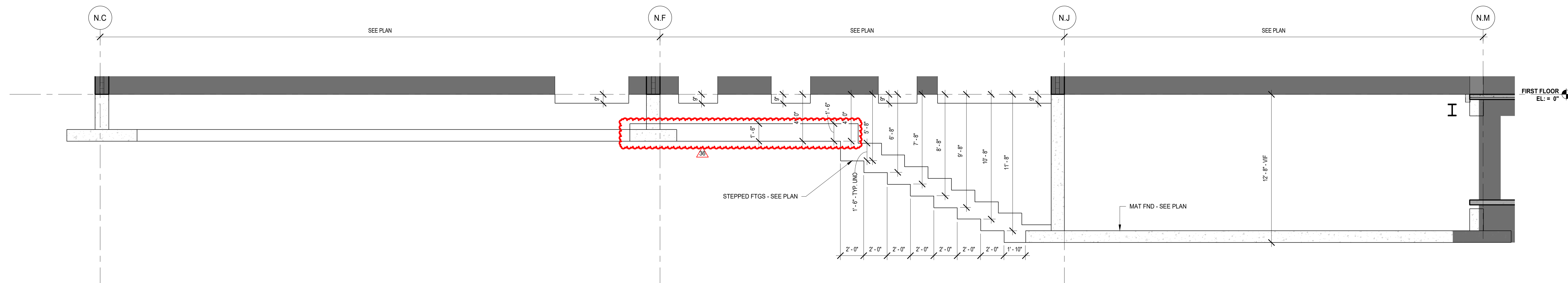
1 EAST AUDITORIUM FOUNDATION WALL AND FOOTING ELEVATION
SCALE: 1/4" = 1'-0"



3 SOUTH AUDITORIUM FLY GALLERY AND SCENE SHOP WALL AND FOOTING ELEVATION
SCALE: 1/4" = 1'-0"



4 FLY GALLERY - WEST FOUNDATION ELEVATION
SCALE: 1/4" = 1'-0"

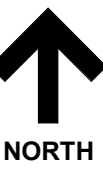
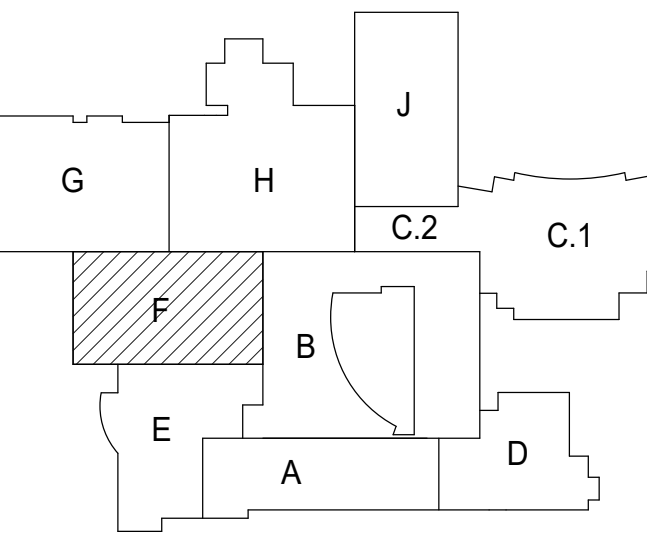


5 FLY GALLERY/SCENE SHOP NORTH FOUNDATION ELEVATION
SCALE: 1/4" = 1'-0"



6 ORCHESTRA PIT CORRIDOR WALL ELEVATION
SCALE: 1/4" = 1'-0"

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36	ADDENDUM 2 - BGS	12.04.2019
	ISSUED FOR BID GROUP & PHASE C	11.20.2019
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	ISSUED FOR 75% CD - PHASE C	10.14.2019
	ISSUED FOR 25% CD - PHASE C	8.30.2019
REV	ISSUE	DATE

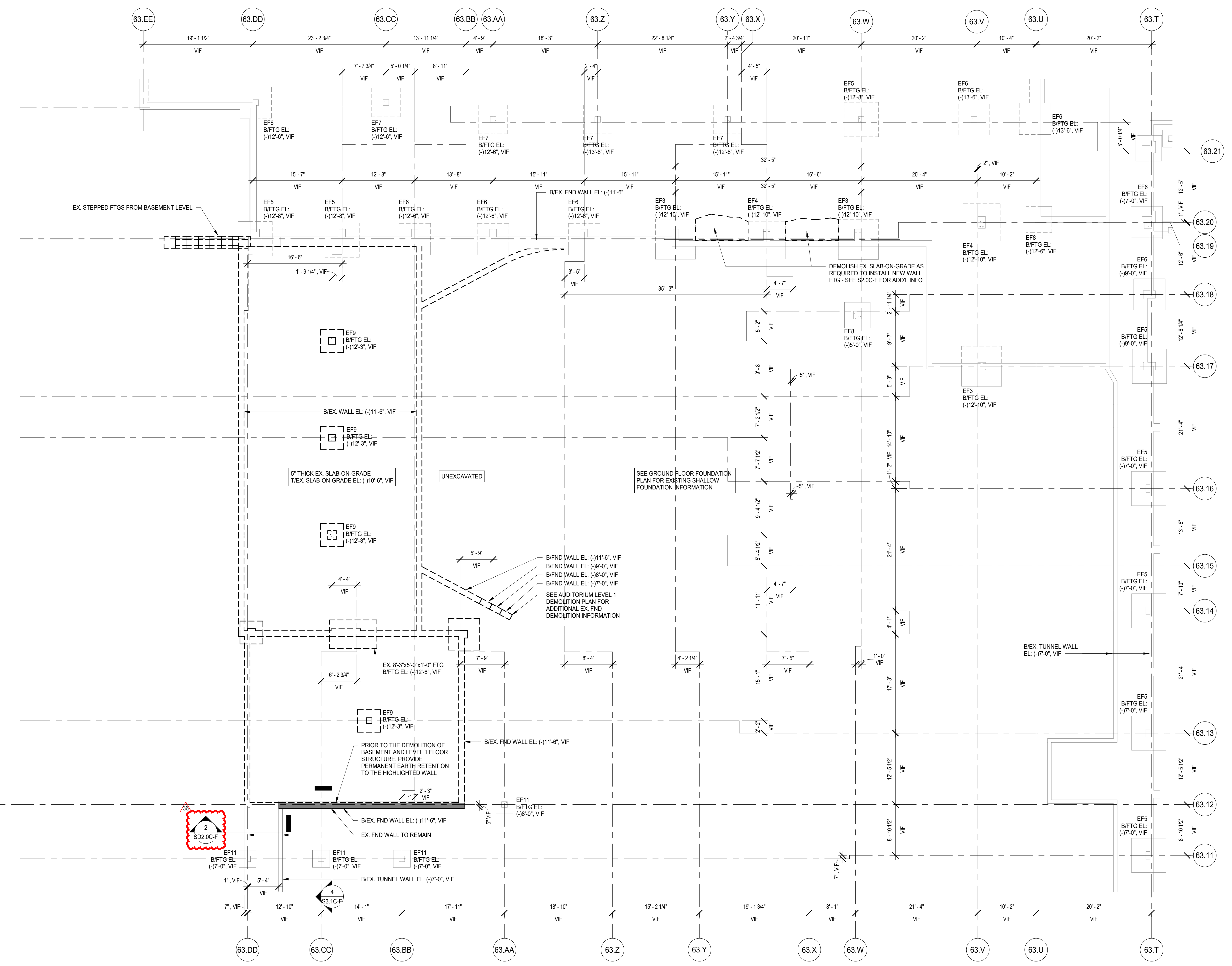
MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

BASEMENT LEVEL STRUCTURAL DEMOLITION PLAN - AREA F

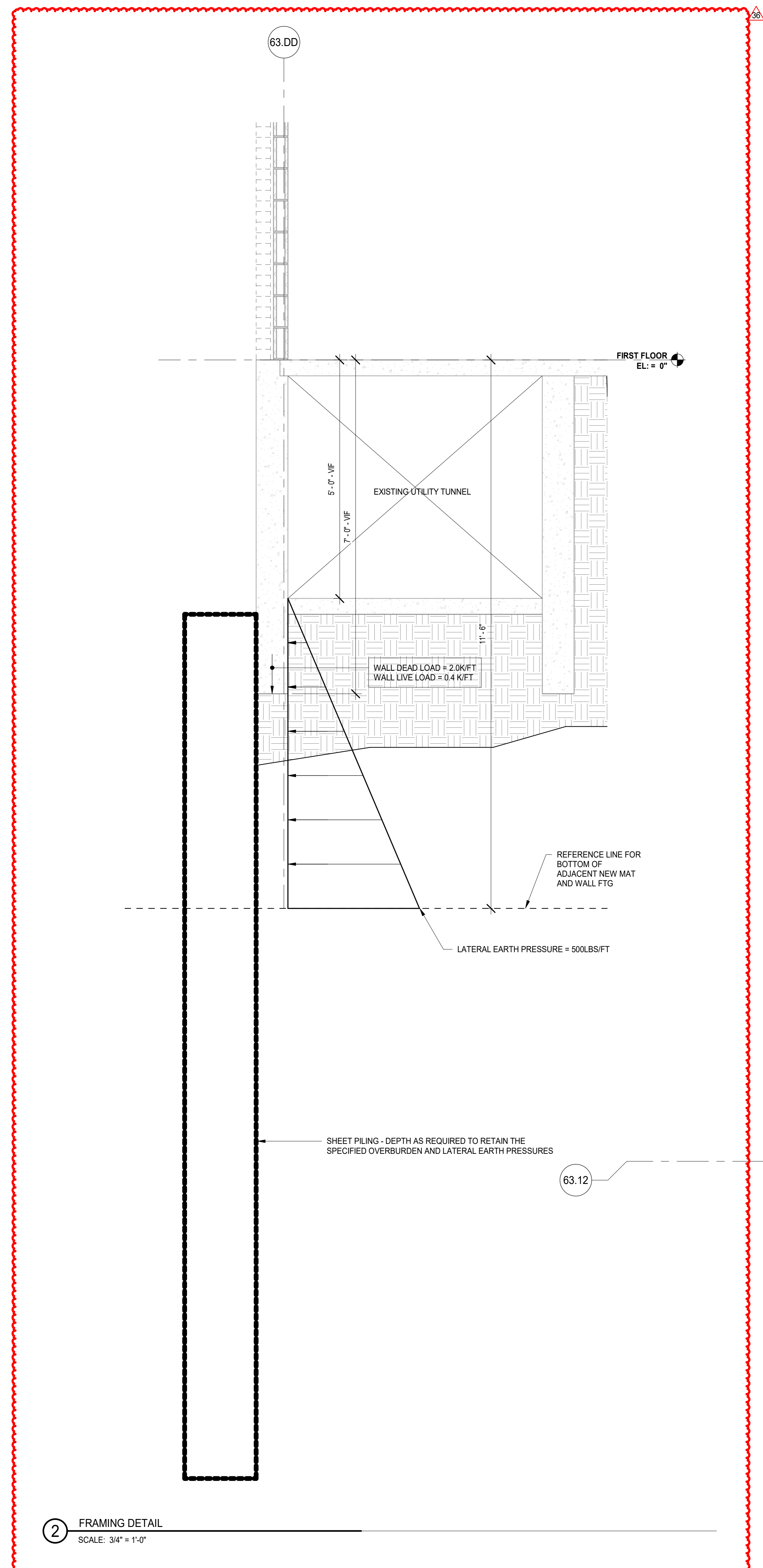
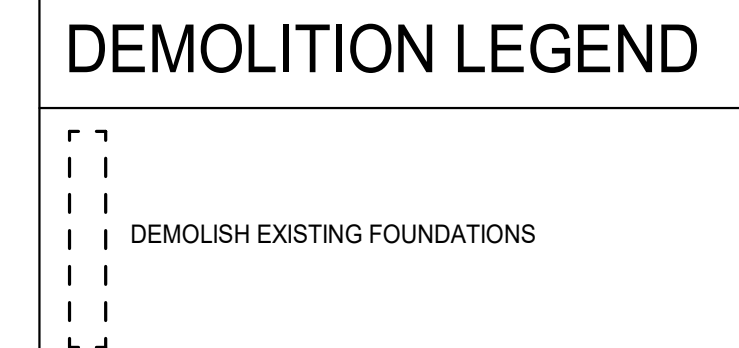
Project Number:
5274-42
Drawn By:
J.G.
Sheet:

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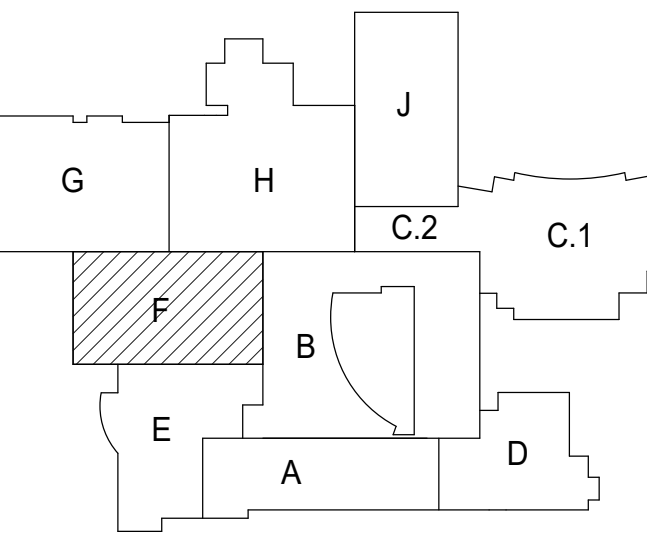
1 AREA F - BASEMENT LEVEL STRUCTURAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

- DEMOLITION PLAN NOTES**
- SEE ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL BASEMENT, LEVEL 1 AND ELEVATED FLOOR LEVEL AND ROOF DEMOLITION INFORMATION.



2 FRAMING DETAIL
SCALE: 3/4" = 1'-0"

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	ISSUED FOR 90% CD - PHASE C	11.12.2019
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REV	ISSUE	DATE

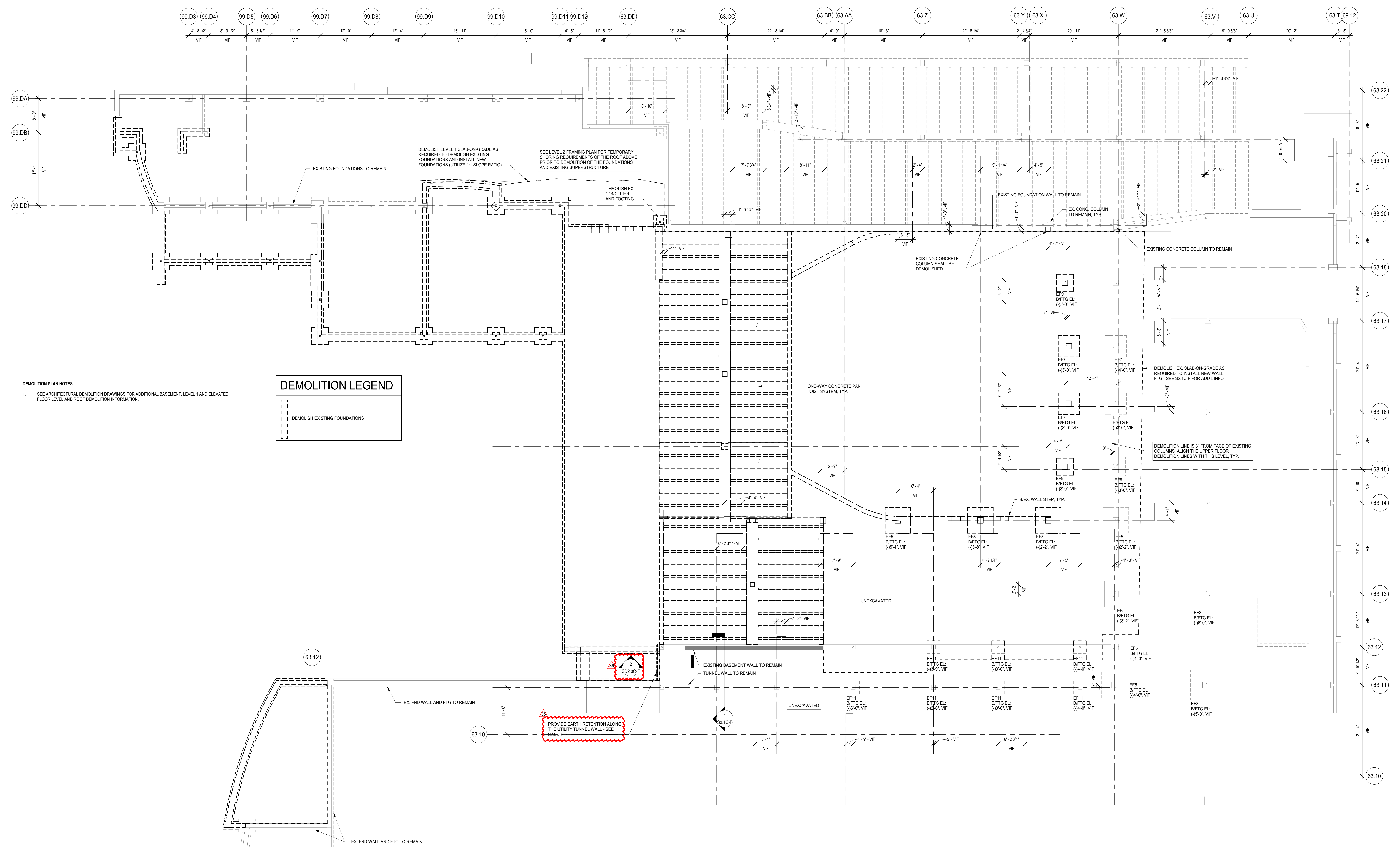
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LEVEL 1 DEMOLITION PLAN - AREA F

Project Number:
5274-42
Drawn By:
J.G.
Sheet:

SD2.1C-F



DEMOLITION PLAN NOTES
1. SEE ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL BASEMENT, LEVEL 1 AND ELEVATED FLOOR LEVEL AND ROOF DEMOLITION INFORMATION.

DEMOLITION LEGEND

	DEMOLISH EXISTING FOUNDATIONS
--	-------------------------------

1 AREA F - LEVEL 1 STRUCTURAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

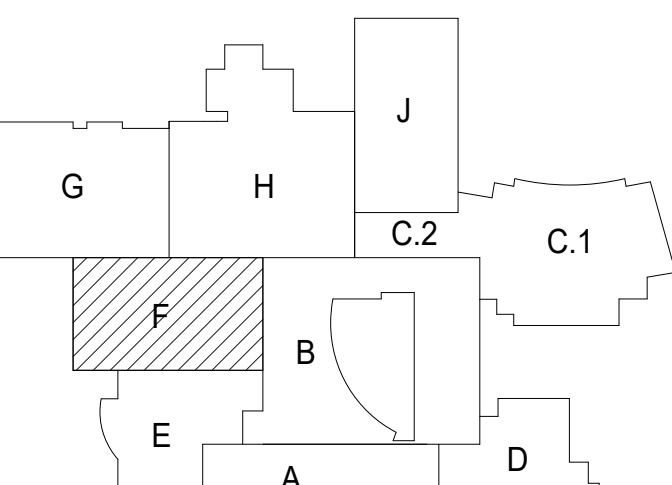
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C	ISSUED FOR BID GROUP 8 - PHASE	11.20.2019

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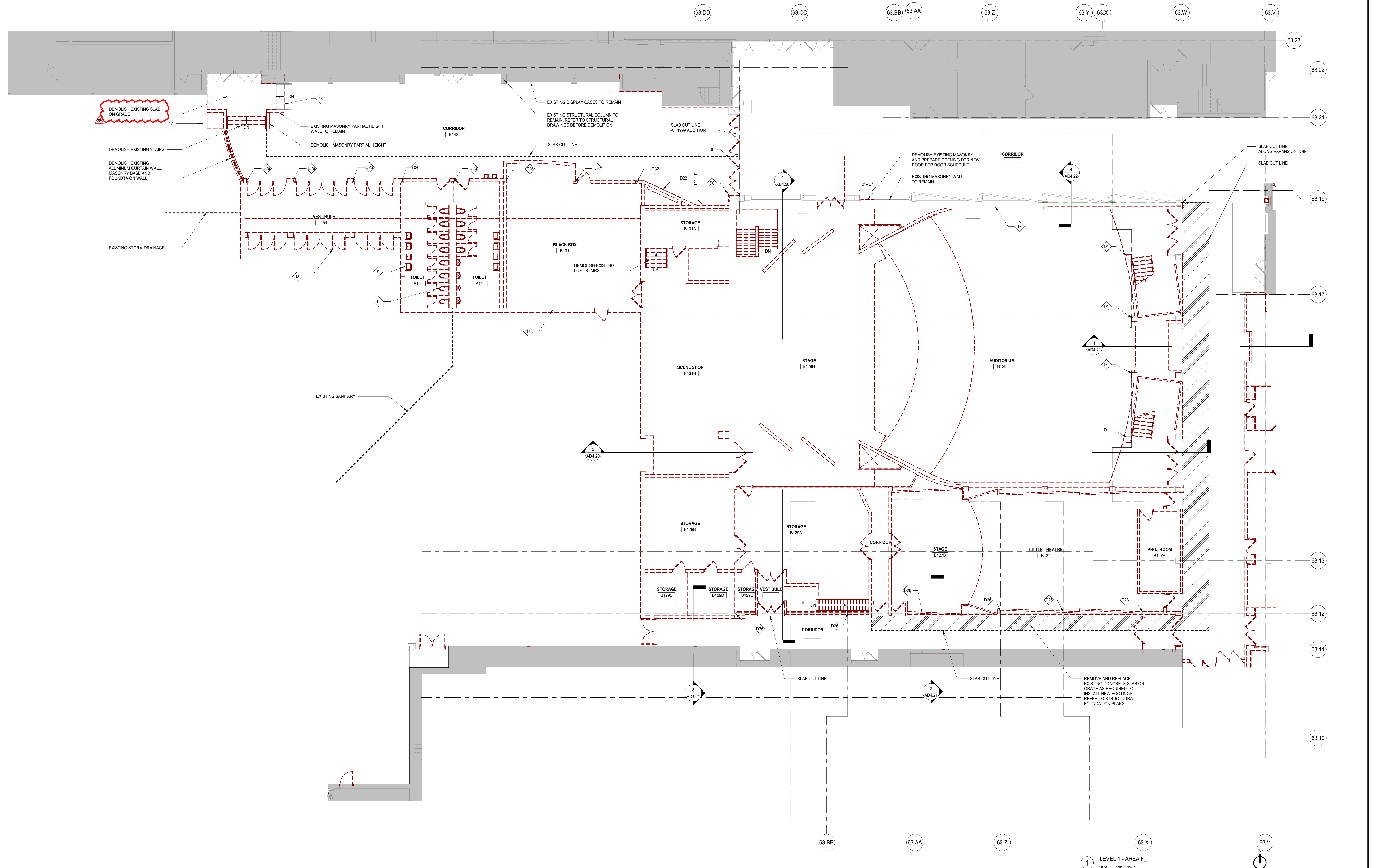
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DOWNERS GROVE, IL 60516

DEMO PLAN LEVEL 1 - AREA F

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5274-42
Drawn By:
Author
Sheet:

AD2.11F

#	KEYNOTES	DEMOLITION PLAN LEGEND
6	EXISTING PLUMBING FIXTURES TO BE REMOVED. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.	EXISTING WALLS TO REMAIN.
8	EXISTING DOOR AND FRAME TO BE REMOVED. RETURN EXISTING HARDWARE TO THE OWNER.	EXISTING WALLS TO BE DEMOLISHED.
9	EXISTING PLUMBING FIXTURE TO BE REMOVED AND DISPOSED.	EXISTING DOOR TO REMAIN. REFER DOOR SCHEDULE FOR REQUIRED MODIFICATIONS.
14	EXISTING STAIR AND HANDRAILS TO REMAIN.	EXISTING DOOR TO BE DEMOLISHED.
17	EXISTING MASONRY TO BE REMOVED. SALVAGE EXISTING FACE BRICK FOR REUSE. COORDINATE EXTENTS OF DEMOLITION WITH THE NEW CONSTRUCTION PLANS.	AREA OF DEMOLITION TO INCLUDE ALL INTERIOR PARTITIONS, WINDOW SHADES AND ASSOCIATED BLOCKING, FLOORING, WALL MOUNTED CLOCKS, WALL MOUNTED SHELVES AND BRACKETS, EXISTING WIRE MOLD, ETC.
18	EXISTING ALUMINUM STOREFRONT AND DOORS TO BE REMOVED. RETURN REMOVED HARDWARE TO THE OWNER.	AREA INCLUDES ALL DEMOLITION LISTED ABOVE AND CASEWORK
D1	EXISTING STRUCTURAL COLUMN TO BE REMOVED. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL SHORING REQUIREMENTS.	AREA INCLUDES DEMOLITION OF ALL INTERIOR CONSTRUCTION. EXISTING FLOORING IS TERRAZZO. REFER TO KEYNOTES FOR FURTHER INFORMATION.
D6	EXISTING MASONRY PARTITION TO BE REMOVED IN ITS ENTIRETY.	AREA INCLUDES DEMOLITION OF ALL INTERIOR CONSTRUCTION. EXISTING FLOORING TO BE ABATED PRIOR TO DEMOLITION. COORDINATE WITH ASBESTOS ABATEMENT DRAWINGS.
D22	REMOVE EXISTING DISPLAY CASE.	
D26	EXISTING STRUCTURAL COLUMN TO REMAIN. REFER TO STRUCTURAL DRAWINGS PRIOR TO START OF DEMOLITION.	
D32	EXISTING COLUMN AND FOUNDATION TO BE REPLACED. REFER TO STRUCTURAL DRAWINGS FOR SHORING REQUIREMENTS PRIOR TO DEMOLITION.	



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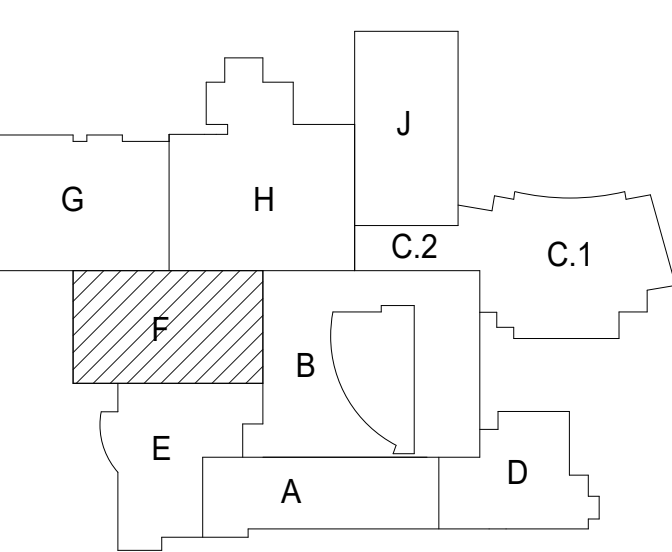
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SCALE: 1/8" = 1'-0"



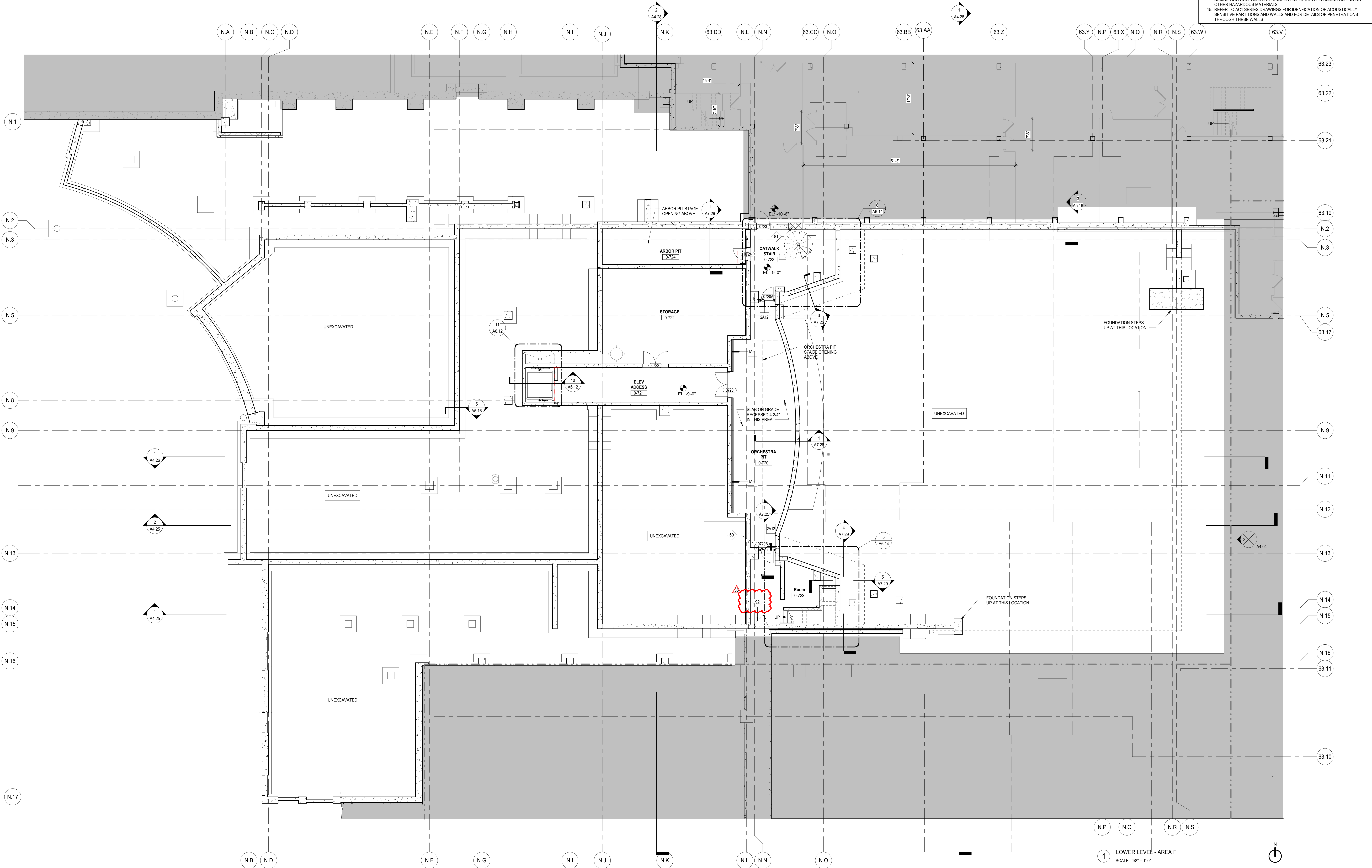
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KEYNOTES		FLOOR PLAN LEGEND		GENERAL NOTES	
59	HORIZONTAL COMPRESSION CAP PASS THROUGH. SEE DETAIL 8A7.28	[Symbol]	EXISTING WALL	1.	ALL ITEMS THAT ARE TO BE REMOVED AND REINSTALLED OR SAVED ARE TO BE TAGGED AND CAREFULLY STORED (SEE OWNER FOR LOCATION).
61	WELL EXISTING OPENING PER STRUCTURAL DRAWING	[Symbol]	NEW GYPSUM BOARD PARTITION	2.	ALL AREAS AFFECTED BY DEMOLITION TO BE PATCHED, REPAIRED, & LEVELED TO MATCH EXISTING ADJACENT SURFACE (MATCH EXISTING CONDITION AT DOOR JAMBS VERIFY IN FIELD).
62	REMOVE EXISTING PARTITION	[Symbol]	NEW CMU PARTITION	3.	THE CONSTRUCTION DOCUMENTS INDICATE THE OVERALL AREAS OF WORK. INCIDENTAL WORK ASSOCIATED BUT NOT SHOWN ON THE CONSTRUCTION DOCUMENTS MAY BE REQUIRED OUTSIDE THE PROJECT AREAS. THIS WORK IS PART OF THE CONSTRUCTION CONTRACT AND IS TO BE COMPLETED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
		[Symbol]	NEW DOOR/HARDWARE. REFER TO SHEET A8 SERIES FOR DOOR SCHEDULE	4.	ALL ITEMS INDICATED TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DAMAGED ITEMS ARE TO BE PATCHED & REPAIRED OR REPLACED AS REQUIRED TO MATCH ADJACENT SURFACE. AT NO ADDITIONAL COST TO THE OWNER.
		[Symbol]	EXISTING DOOR TO REMAIN. REFER TO SHEET A8.1 FOR DOOR SCHEDULE FOR REQUIRED MODIFICATIONS.	5.	WHEN THE REMOVAL OF EXISTING SURFACE MATERIAL IS REQUIRED TO COMPLETE CONTRACT WORK AND A NEW FINISH IS NOT SCHEDULED, PATCH/REPAIR AND PRIME THE AFFECTED SURFACE TO RECEIVE NEW FINISH.
		[Symbol]	METAL LOCKER: 5% OF TOTAL PROVIDED QUANTITY SHALL BE ACCESSIBLE. COORDINATE ADA COMPLIANT LOCKER LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION	6.	NEW SLEEVES AND OPENINGS IN THE EXISTING FLOOR, WALL & CEILING CONSTRUCTION ARE TO BE SEALED WITH FIRE SAFETY MATERIAL.
		[Symbol]	PARTITION TYPE & DETAILS. REFER TO SHEET A8.00	7.	ALL MISC. ITEMS (CHAIRBOARDS, PENCIL SHARPENERS, ETC.) THAT INTERFERE WITH THE COMPLETION OF CONTRACT WORK BUT ARE NOT SHOWN TO BE REMOVED ARE TO BE REMOVED, STORED, AND REINSTALLED. AT NO ADDITIONAL COST TO THE OWNER. IN THE EVENT THAT ITEMS CANNOT BE REINSTALLED IN ITS ORIGINAL LOCATION COORDINATE NEW LOCATION WITH ARCHITECT/OWNER.
		[Symbol]	ALUMINUM STOREFRONT/WINDOW TYPE. REFER TO A8.10 SERIES	8.	U.O. CONTRACTOR TO REMOVE EXISTING FLOORING AND BASE AS REQUIRED TO ACCOMMODATE DOOR ASSEMBLIES. PATCH/REPAIR AS NECESSARY TO MATCH ADJACENT SURFACES.
		[Symbol]	DOOR TAG. REFER TO A8.10 SERIES	9.	REFER TO MFP DRAWINGS FOR DEMOLITION REMOVAL / RELOCATION AND INSTALLATION OF FIXTURES AND DEVICES.
		[Symbol]	SPECIALTY EQUIPMENT TAG	10.	SEE STRUCTURAL DEMOLITION DRAWINGS FOR SHORING AND WALL RETAINING REQUIREMENTS PRIOR TO START OF DEMOLITION.
				11.	UPON REMOVAL OF DOORS, SHORE OPENINGS AS REQUIRED. SECURE ALL NEW FRAMES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE LITTELS AS REQUIRED. SEE STRUCTURAL DRAWINGS.
				12.	ON DOORS THAT ARE TO BE REMOVED RETURN ALL DOOR HARDWARE TO OWNER PRIOR TO DISPOSAL.
				13.	ALL ELECTRICAL DEVICES & ASSEMBLIES BEING AFFECTED BY DEMO OF DOORS TO BE REINSTALLED AND RECONNECTED AT NO ADDITIONAL COST TO THE OWNER.
				14.	COORDINATE WITH ABATEMENT CONTRACTOR FOR AREAS CALLED FOR DEMOLITION CONTAINING OR SUSPECTED TO CONTAIN ASBESTOS AND OR OTHER HAZARDOUS MATERIALS.
				15.	REFER TO ACI SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.



REV	ISSUE	DATE
36	ISSUED FOR ADDENDUM 2 - BGS	12.04.2019
34	ISSUED FOR 75% CONSTRUCTION DOCUMENTS - PHASE C	10.14.2019
	ISSUED FOR DESIGN DEVELOPMENT	07.12.2019
	ISSUED FOR SCHEMATIC DESIGN - PHASE B	11.05.2018
	ISSUED FOR SCHEMATIC DESIGN - PHASE A	09.10.2018

MFP IMPLEMENTATION - SOUTH

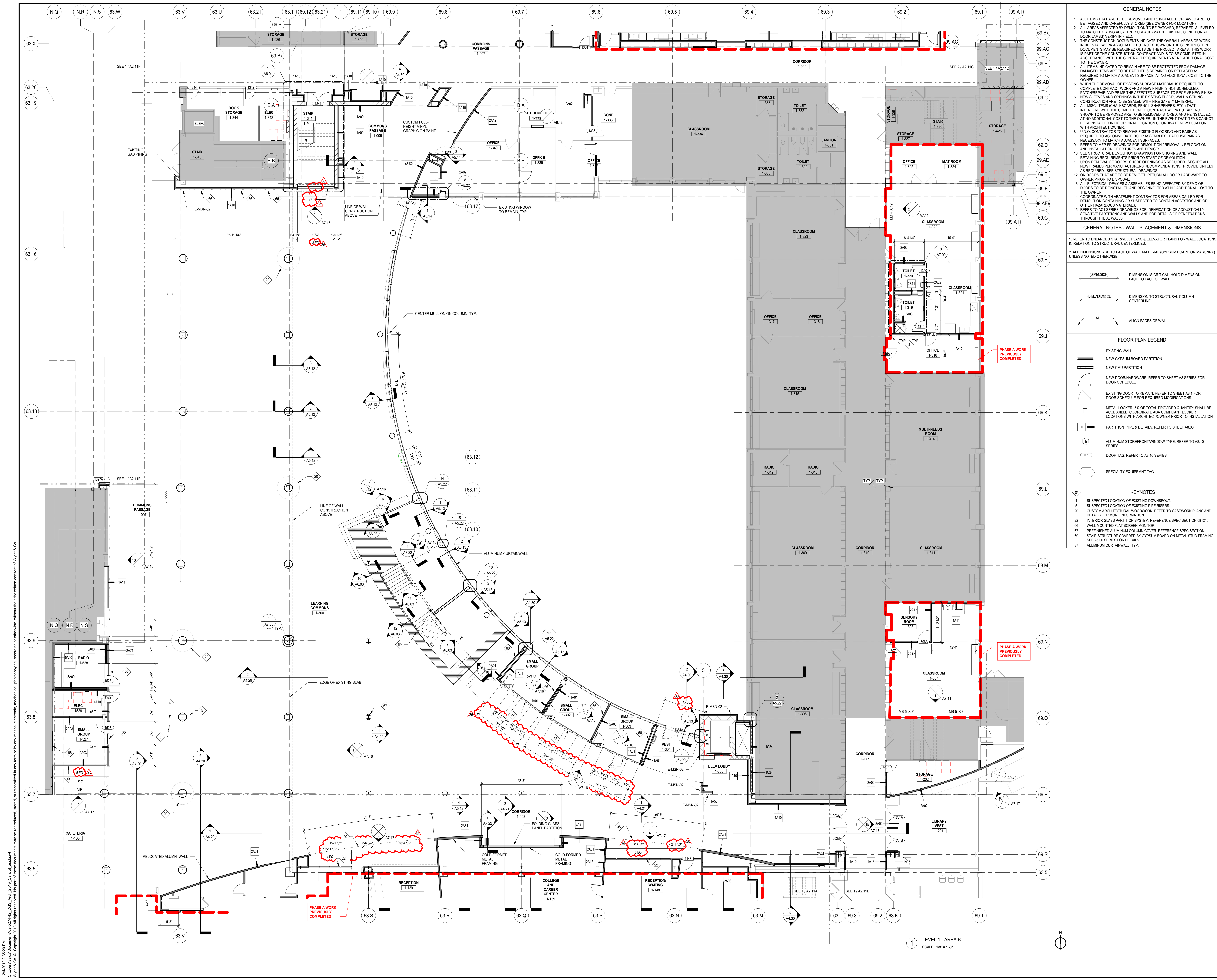
1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

FLOOR PLAN LOWER LEVEL AREA F

Project Number:
5274-42
Drawn By:
A.SASSILA
Sheet:

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- GENERAL NOTES**
- ALL ITEMS THAT ARE TO BE REMOVED OR SAVED ARE TO BE TAGGED AND CAREFULLY STORED (SEE OWNER FOR LOCATION).
 - ALL AREAS AFFECTED BY DEMOLITION TO BE PATCHED, REPAIRED, & LEVELLED TO MATCH EXISTING ADJACENT SURFACE (MATCH EXISTING CONDITION AT DOOR JAMBES VERIFY IN FIELD).
 - THE CONSTRUCTION DOCUMENTS INDICATE THE OVERALL AREAS OF WORK. INCIDENTAL WORK ASSOCIATED BUT NOT SHOWN ON THE CONSTRUCTION DOCUMENTS MAY BE REQUIRED OUTSIDE THE PROJECT AREAS. THIS WORK IS PART OF THE CONSTRUCTION CONTRACT AND IS TO BE COMPLETED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
 - ALL ITEMS INDICATED TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DAMAGED ITEMS ARE TO BE PATCHED & REPAIRED OR REPLACED AS REQUIRED TO MATCH ADJACENT SURFACE. AT NO ADDITIONAL COST TO THE OWNER.
 - WHEN THE REMOVAL OF EXISTING SURFACE MATERIAL IS REQUIRED TO COMPLETE CONTRACT WORK AND A NEW FINISH IS NOT SCHEDULED, PATCH/REPAIR AND PRIME THE AFFECTED SURFACE TO RECEIVE NEW FINISH.
 - NEW SURFACES AND OPENINGS IN THE EXISTING FLOOR, WALL & CEILING CONSTRUCTION ARE TO BE SEALED WITH FIRE SAFETY MATERIAL. ALL SILENT ITEMS (CHANGERS, FLOOR SHARPENERS, ETC.) THAT INTERFERE WITH THE COMPLETION OF CONTRACT WORK BUT ARE NOT SHOWN TO BE REMOVED ARE TO BE REMOVED, STORED, AND REINSTALLED. BE REINSTALLED IN ITS ORIGINAL LOCATION COORDINATE NEW LOCATION WITH ARCHITECT/OWNER.
 - U.O. CONTRACTOR TO REMOVE EXISTING FLOORING AND BASE AS REQUIRED TO ACCOMMODATE DOOR ASSEMBLIES. PATCH/REPAIR AS NECESSARY TO MATCH ADJACENT SURFACES.
 - REFER TO MEP/FP DRAWINGS FOR DEMOLITION/REMOVAL/RELOCATION AND INSTALLATION OF FIXTURES AND DEVICES.
 - SEE STRUCTURAL DEMOLITION DRAWINGS FOR SHORING AND WALL RETAINING REQUIREMENTS PRIOR TO START OF DEMOLITION.
 - UPON REMOVAL OF DOORS, SHORE OPENINGS AS REQUIRED. SECURE ALL NEW FRAMES FOR MANUFACTURING. PROVIDE LABELS AS REQUIRED. SEE STRUCTURAL DRAWINGS.
 - ON DOORS THAT ARE TO BE REMOVED RETURN ALL DOOR HARDWARE TO OWNER PRIOR TO DISPOSAL.
 - ALL ELECTRICAL DEVICES & ASSEMBLIES BEING AFFECTED BY DEMO OF ROOMS TO BE REINSTALLED AND RECONNECTED AT NO ADDITIONAL COST TO THE OWNER.
 - CONCRETE WITH ABATEMENT CONTRACTOR FOR AREAS CALLED FOR DEMOLITION CONTAINING OR SUSPECTED TO CONTAIN ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS.
 - REFER TO ACI SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
- GENERAL NOTES - WALL PLACEMENT & DIMENSIONS**
- REFER TO ENLARGED STAIRWELL PLANS & ELEVATOR PLANS FOR WALL LOCATIONS IN RELATION TO STRUCTURAL CENTERLINES.
 - ALL DIMENSIONS ARE TO FACE OF WALL MATERIAL (GYPSUM BOARD OR MASONRY) UNLESS NOTED OTHERWISE.
- FLOOR PLAN LEGEND**
- EXISTING WALL
 - NEW GYPSUM BOARD PARTITION
 - NEW CMU PARTITION
 - NEW DOOR-HARDWARE. REFER TO SHEET AS.8 SERIES FOR DOOR SCHEDULE
 - EXISTING DOOR TO REMAIN. REFER TO SHEET AS.1 FOR DOOR SCHEDULE FOR REQUIRED MODIFICATIONS.
 - METAL LOCKER- 5% OF TOTAL PROVIDED QUANTITY SHALL BE ACCESSIBLE. COORDINATE ADA COMPLIANT LOCKER LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
 - PARTITION TYPE & DETAILS. REFER TO SHEET AS.00
 - ALUMINUM STOREFRONT/WINDOW TYPE. REFER TO AS.10 SERIES
 - DOOR TAG. REFER TO AS.10 SERIES
 - SPECIALTY EQUIPMENT TAG
- KEYNOTES**
- SUSPECTED LOCATION OF EXISTING DOWNSPOUT
 - SUSPECTED LOCATION OF EXISTING PIPE RISERS
 - CUSTOM ARCHITECTURAL WOODWORK. REFER TO CASEWORK PLANS AND DETAILS FOR MORE INFORMATION.
 - INTERIOR GLASS PARTITION SYSTEM. REFERENCE SPEC SECTION 081216.
 - WALL MOUNTED FLAT SCREEN MONITOR.
 - PRE-FINISHED ALUMINUM COLUMN COVER. REFERENCE SPEC SECTION.
 - STAIR STRUCTURE COVERED BY GYPSUM BOARD ON METAL STUD FRAMING. SEE AS.00 SERIES FOR DETAILS.
 - ALUMINUM CURTAINWALL, TYP.



**COMMUNITY HIGH SCHOOL
DISTRICT 99**



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REV	ISSUE	DATE
36	ISSUED FOR ADDENDUM 2 - BGR	12.04.2019
34	ISSUED FOR 75% CONSTRUCTION DOCUMENTS - PHASE C DEVELOPMENT	10.14.2019
	ISSUED FOR CONSTRUCTION - PHASE A	07.12.2019
	ISSUED FOR CONSTRUCTION - PHASE A	05.08.2019
8	ISSUED FOR ADDENDUM 3 - BGS	03.29.2019
	ISSUED FOR CODE CONSULTANT REVIEW	02.20.2019
	ISSUED FOR BID GROUP 2 - PHASE A	02.06.2019
	ISSUED FOR OWNER REVIEW	01.18.2019
	ISSUED FOR BID 1 - PHASE A	01.16.2019
	ISSUED FOR 50% CONSTRUCTION DOCUMENTS - PHASE A	11.28.2018
	ISSUED FOR SCHEMATIC DESIGN - PHASE A	09.19.2018

MFP IMPLEMENTATION - SOUTH

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DOWNERS GROVE, IL 60516

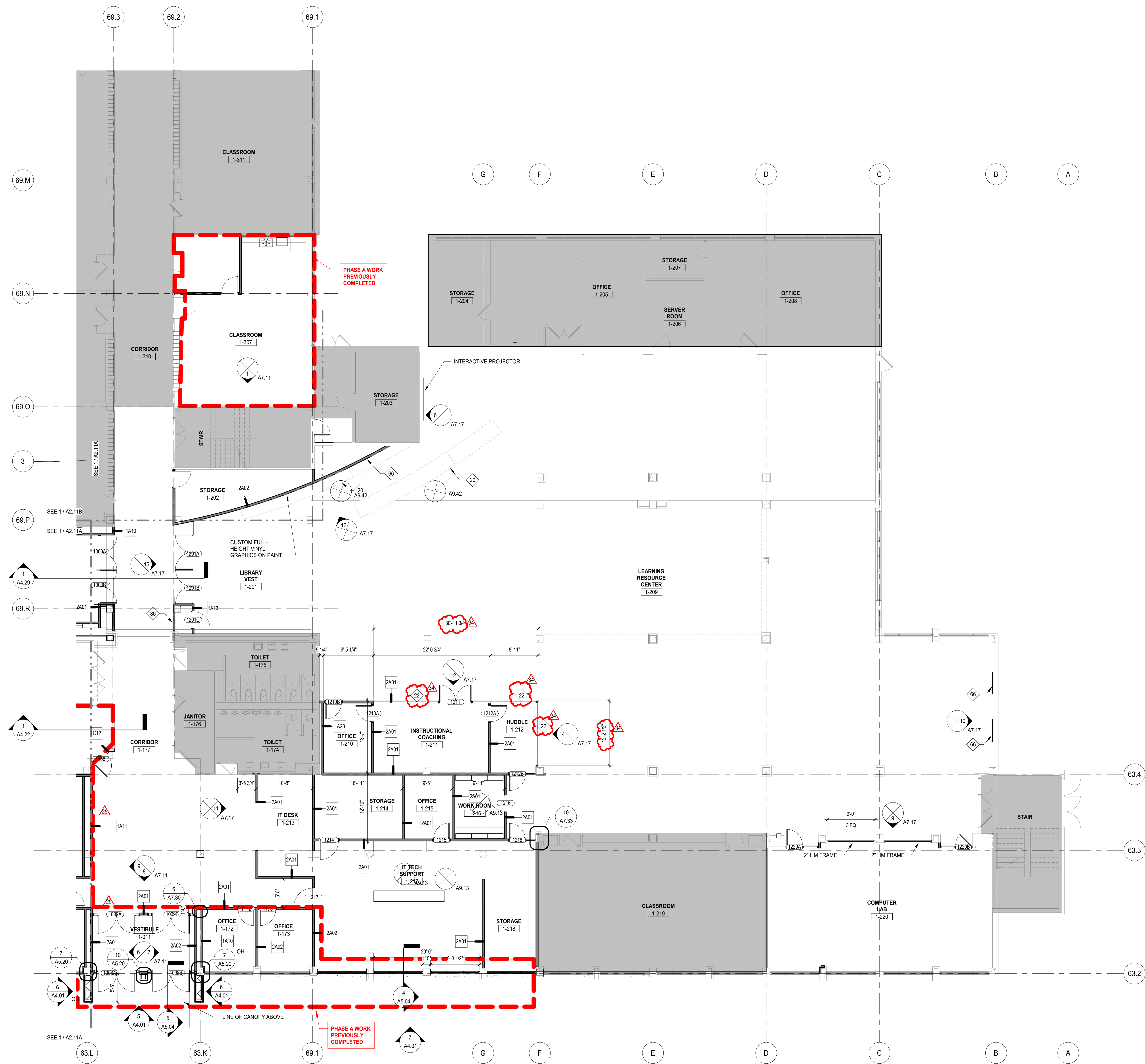
**FLOOR PLAN LEVEL 1
AREA B**

Project Number:
5274-42
Drawn By:
A.SASSILA
Sheet:
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1 LEVEL 1 - AREA B
SCALE: 1/8" = 1'-0"

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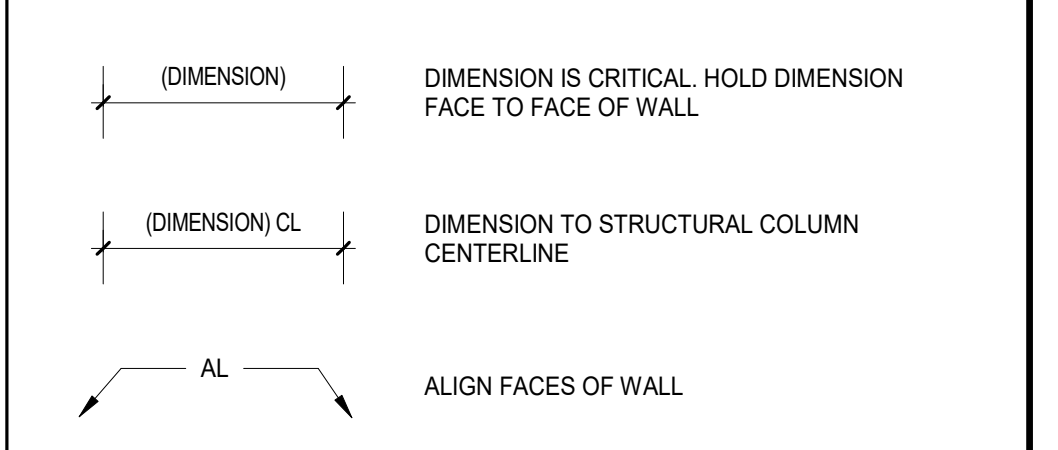
1 LEVEL 1 - AREA D
 SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. ALL ITEMS THAT ARE TO BE REMOVED AND REINSTALLED OR SAVED ARE TO BE TAGGED AND CAREFULLY STORED (SEE OWNER FOR LOCATION).
2. ALL AREAS AFFECTED BY DEMOLITION TO BE PATCHED, REPAIRED, & LEVELLED TO MATCH EXISTING ADJACENT SURFACE (MATCH EXISTING CONDITION AT DOOR JAMBS VERIFY IN FIELD).
3. THE CONSTRUCTION DOCUMENTS INDICATE THE OVERALL AREAS OF WORK INCIDENTAL WORK ASSOCIATED BUT NOT SHOWN ON THE CONSTRUCTION DOCUMENTS MAY BE REQUIRED OUTSIDE THE PROJECT AREAS. THIS WORK IS PART OF THE CONSTRUCTION CONTRACT AND IS TO BE COMPLETED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
4. ALL ITEMS INDICATED TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DAMAGED ITEMS ARE TO BE PATCHED & REPAIRED OR REPLACED AS REQUIRED TO MATCH ADJACENT SURFACE. AT NO ADDITIONAL COST TO THE OWNER.
5. WHEN THE REMOVAL OF EXISTING SURFACE MATERIAL IS REQUIRED TO COMPLETE CONTRACT WORK AND A NEW FINISH IS NOT SCHEDULED, PATCH/REPAIR AND PRIME THE AFFECTED SURFACE TO RECEIVE NEW FINISH. NEW SLEEVES AND OPENINGS IN THE EXISTING FLOOR, WALL & CEILING CONSTRUCTION ARE TO BE SEALED WITH FIRE SAFETY MATERIAL.
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9. REFER TO MFP DRAWINGS FOR DEMOLITION REMOVAL / RELOCATION AND INSTALLATION OF FIXTURES AND DEVICES.
10. SEE STRUCTURAL DEMOLITION DRAWINGS FOR SHORING AND WALL RETAINING REQUIREMENTS PRIOR TO START OF DEMOLITION.
11. UPON REMOVAL OF DOORS, SHORE OPENINGS AS REQUIRED. SECURE ALL NEW FRAMES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE LITELLS AS REQUIRED. SEE STRUCTURAL DRAWINGS.
12. ON DOORS THAT ARE TO BE REMOVED RETURN ALL DOOR HARDWARE TO OWNER PRIOR TO DISPOSAL.
13. ALL ELECTRICAL DEVICES & ASSEMBLIES BEING AFFECTED BY DEMO OF DOORS TO BE REINSTALLED AND RECONNECTED AT NO ADDITIONAL COST TO THE OWNER.
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GENERAL NOTES - WALL PLACEMENT & DIMENSIONS

1. REFER TO ENLARGED STAIRWELL PLANS & ELEVATOR PLANS FOR WALL LOCATIONS IN RELATION TO STRUCTURAL CENTERLINE.
2. ALL DIMENSIONS ARE TO FACE OF WALL MATERIAL (GYPSUM BOARD OR MASONRY) UNLESS NOTED OTHERWISE.



FLOOR PLAN LEGEND

- EXISTING WALL
- NEW GYPSUM BOARD PARTITION
- NEW CMU PARTITION
- NEW DOOR-HARDWARE. REFER TO SHEET A8 SERIES FOR DOOR SCHEDULE
- EXISTING DOOR TO REMAIN. REFER TO SHEET A8.1 FOR DOOR SCHEDULE FOR REQUIRED MODIFICATIONS.
- METAL LOCKER. 5% OF TOTAL PROVIDED QUANTITY SHALL BE ACCESSIBLE. COORDINATE ADA COMPLIANT LOCKER LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
- PARTITION TYPE & DETAILS. REFER TO SHEET A8.00
- ALUMINUM STOREFRONT/WINDOW TYPE. REFER TO A8.10 SERIES
- DOOR TAG. REFER TO A8.10 SERIES
- SPECIALTY EQUIPMENT TAG

KEYNOTES

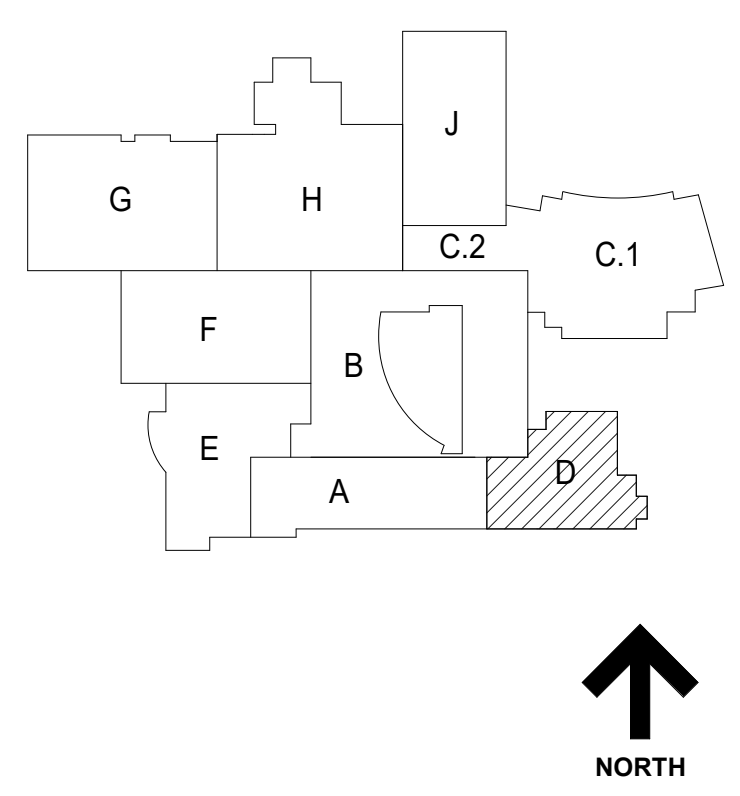
- 20 CUSTOM ARCHITECTURAL WOODWORK. REFER TO CASEWORK PLANS AND DETAILS FOR MORE INFORMATION.
- 22 INTERIOR GLASS PARTITION SYSTEM. REFERENCE SPEC SECTION 081216.
- 66 WALL MOUNTED FLAT SCREEN MONITOR.
- 66 IN-WALL BOOK DROP DOOR.

DISTRICT 99

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 DISTRICT 99

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34	ISSUED FOR 75% CONSTRUCTION DOCUMENTS - PHASE C DEVELOPMENT	10.14.2019
	ISSUED FOR DESIGN DEVELOPMENT	07.12.2019
25	ISSUED FOR DOC MOD 012	06.28.2019
	ISSUED FOR CONSTRUCTION - PHASE A	05.08.2019
8	ISSUED FOR ADDENDUM 3 - BG3	03.29.2019
	ISSUED FOR CODE CONSULTANT REVIEW	02.20.2019
	ISSUED FOR BID GROUP 2 - PHASE A	02.06.2019
	ISSUED FOR OWNER REVIEW	01.18.2019
	ISSUED FOR BG 1 - PHASE A	01.18.2019
	ISSUED FOR 50% CONSTRUCTION DOCUMENTS - PHASE A	11.28.2018
	ISSUED FOR SCHEMATIC DESIGN	11.05.2018
REV	ISSUE	DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
 DOWNERS GROVE, IL 60516

**FLOOR PLAN LEVEL 1
 AREA D**

Project Number:
 5274-42
 Drawn By:
 A.SASSILA
 Sheet:

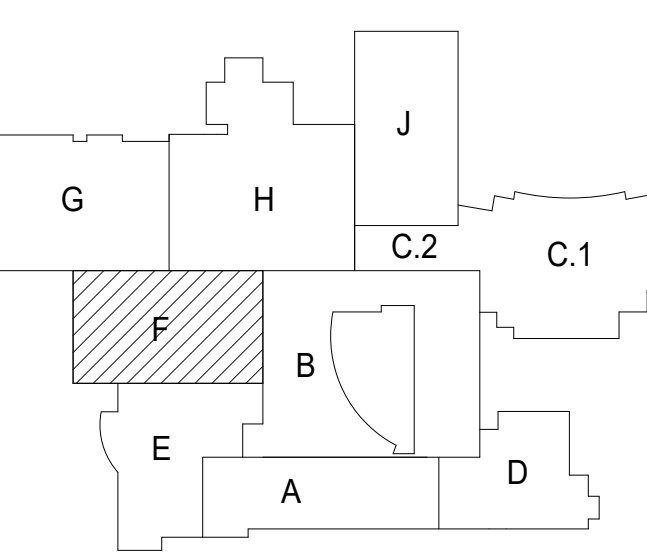
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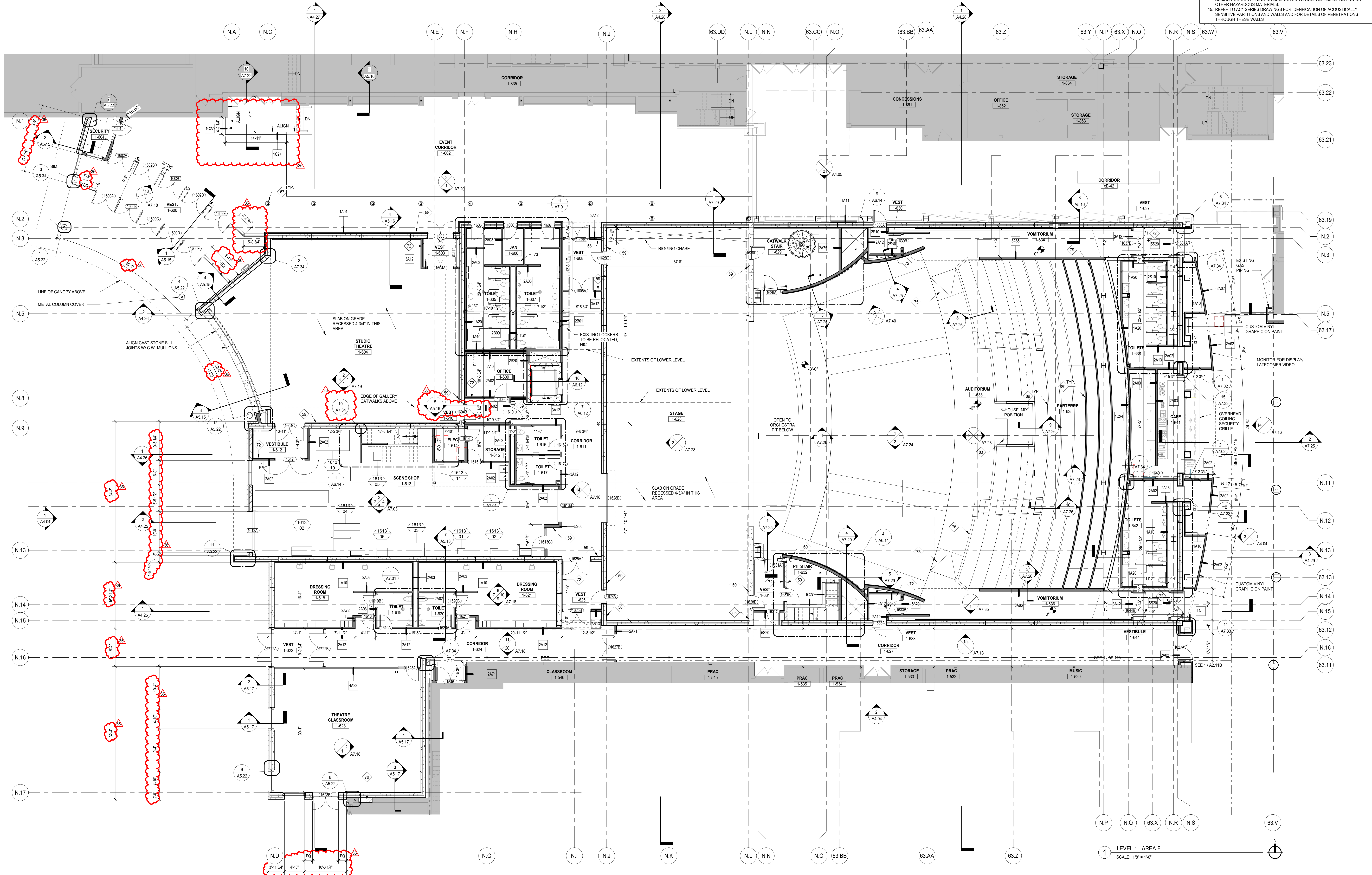
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#	KEYNOTES	FLOOR PLAN LEGEND	GENERAL NOTES - WALL PLACEMENT & DIMENSIONS	GENERAL NOTES
58	HORIZONTAL FLUSH CAP PASS THROUGH. SEE DETAIL 12/A7.28	EXISTING WALL	1. REFER TO ENLARGED STARWELL PLANS & ELEVATOR PLANS FOR WALL LOCATIONS IN RELATION TO STRUCTURAL CENTERLINES.	1. ALL ITEMS THAT ARE TO BE REMOVED AND REINSTALLED OR SAVED ARE TO BE TAGGED AND CAREFULLY STORED (SEE OWNER FOR LOCATION).
59	HORIZONTAL COMPRESSION CAP PASS THROUGH. SEE DETAIL 8/A7.28	NEW GYPSUM BOARD PARTITION	2. ALL DIMENSIONS ARE TO FACE OF WALL MATERIAL (GYPSUM BOARD OR MASONRY) UNLESS NOTED OTHERWISE.	2. ALL AREAS AFFECTED BY DEMOLITION TO BE PATCHED, REPAIRED, & LEVELLED TO MATCH EXISTING ADJACENT SURFACE (MATCH EXISTING CONDITION AT DOOR JAMBES VERIFY IN FIELD).
60	6" VERTICAL CABLE PASS IN FLOOR	NEW CMU PARTITION	(DIMENSION) DIMENSION IS CRITICAL HOLD DIMENSION FACE TO FACE OF WALL	3. THE CONSTRUCTION DOCUMENTS INDICATE THE OVERALL AREAS OF WORK INCIDENTAL WORK ASSOCIATED BUT NOT SHOWN ON THE CONSTRUCTION DOCUMENTS MAY BE REQUIRED OUTSIDE THE PROJECT AREAS. THIS WORK IS PART OF THE CONSTRUCTION CONTRACT AND IS TO BE COMPLETED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
67	PREFINISHED ALUMINUM COLUMN COVER. REFERENCE SPEC SECTION.	NEW DOOR-HARDWARE. REFER TO SHEET A8 SERIES FOR DOOR SCHEDULE	(DIMENSION) DIMENSION TO STRUCTURAL COLUMN CENTERLINE	4. ALL ITEMS INDICATED TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DAMAGED ITEMS ARE TO BE PATCHED & REPAIRED OR REPLACED AS REQUIRED TO MATCH ADJACENT SURFACE. AT NO ADDITIONAL COST TO THE OWNER.
70	INFILL OPENING TO MATCH EXISTING FINISHES AT INTERIOR SIDE	EXISTING DOOR TO REMAIN. REFER TO SHEET A8.1 FOR DOOR SCHEDULE FOR REQUIRED MODIFICATIONS.	AL ALIGN FACES OF WALL	5. WHEN THE REMOVAL OF EXISTING SURFACE MATERIAL IS REQUIRED TO COMPLETE CONTRACT WORK, A NEW FINISH IS NOT SCHEDULED. PATCH/REPAIR AND PRIME THE AFFECTED SURFACE TO RECEIVE NEW FINISH.
72	ACoustICAL PANELS ON ALL WALLS OF VESTIBULE	METAL LOCKER. 5% OF TOTAL PROVIDED QUANTITY SHALL BE ACCESSIBLE. COORDINATE ADA COMPLIANT LOCKER LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION	WORK SCOPE LEGEND	6. NEW SLEEVES AND OPENINGS IN THE EXISTING FLOOR, WALL & CEILING CONSTRUCTION ARE TO BE SEALED WITH FIRE SAFETY MATERIAL.
73	WALL HUNG MOP HOOKS AND UTILITY SHELF (4 HOOKS)	PARTITION TYPE & DETAILS. REFER TO SHEET A8.00	INCIDENTAL WORK AREA	7. ALL MISC. ITEMS (CHAIRBAR/S, PENCIL SHARPENERS, ETC.) THAT INTERFERE WITH THE COMPLETION OF CONTRACT WORK BUT ARE NOT SHOWN TO BE REMOVED ARE TO BE REMOVED, STORED, AND REINSTALLED AT NO ADDITIONAL COST TO THE OWNER. IN THE EVENT THAT ITEMS CANNOT BE REINSTALLED IN ITS ORIGINAL LOCATION COORDINATE NEW LOCATION WITH ARCHITECT/OWNER.
75	CONCRETE RAMP. SEE FINISH PLANS FOR FLOOR FINISHES	ALUMINUM STOREFRONT/WINDOW TYPE. REFER TO A8.10 SERIES	WORK AREA	8. U.O. CONTRACTOR TO REMOVE EXISTING FLOORING AND BASE AS REQUIRED TO ACCOMMODATE DOOR ASSEMBLIES. PATCH/REPAIR AS NECESSARY TO MATCH ADJACENT SURFACES.
76	GYPSUM BOARD GUARDRAIL WITH SOLID SURFACE CAP	DOOR TAG. REFER TO A8.10 SERIES		9. REFER TO MFP DRAWINGS FOR DEMOLITION REMOVAL / RELOCATION AND INSTALLATION OF FIXTURES AND DEVICES.
79	COLD-FORMED METAL FRAMING SUPPORTING THEATER SEATING PLATFORMS. TYP. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION	SPECIALTY EQUIPMENT TAG		10. SEE STRUCTURAL DEMOLITION DRAWINGS FOR SHORING AND WALL RETAINING REQUIREMENTS PRIOR TO START OF DEMOLITION.
83	FLUSHED RECESSED PULL BOX WITH COVER FOR 1/2" DIA. AV PIPE			11. UPON REMOVAL OF DOORS, SHORE OPENINGS AS REQUIRED. SECURE ALL NEW FRAMES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE LITELLS AS REQUIRED. SEE STRUCTURAL DRAWINGS.
86	COLD-FORMED METAL FRAMING			12. ON DOORS THAT ARE TO BE REMOVED RETURN ALL DOOR HARDWARE TO OWNER PRIOR TO DISPOSAL.
				13. ALL ELECTRICAL DEVICES & ASSEMBLIES BEING AFFECTED BY DEMO OF DOORS TO BE REINSTALLED AND RECONNECTED AT NO ADDITIONAL COST TO THE OWNER.
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				15. REFER TO ACSI SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.



- 36 ISSUED FOR ADDENDUM 2 - R68 12.04.2019
- 34 ISSUED FOR 75% CONSTRUCTION DOCUMENTS - PHASE C 10.14.2019
- ISSUED FOR DESIGN DEVELOPMENT 07.12.2019
- 8 ISSUED FOR ADDENDUM 3 - R63 03.29.2019
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- ISSUED FOR SCHEMATIC DESIGN 11.05.2018

MFP IMPLEMENTATION - SOUTH

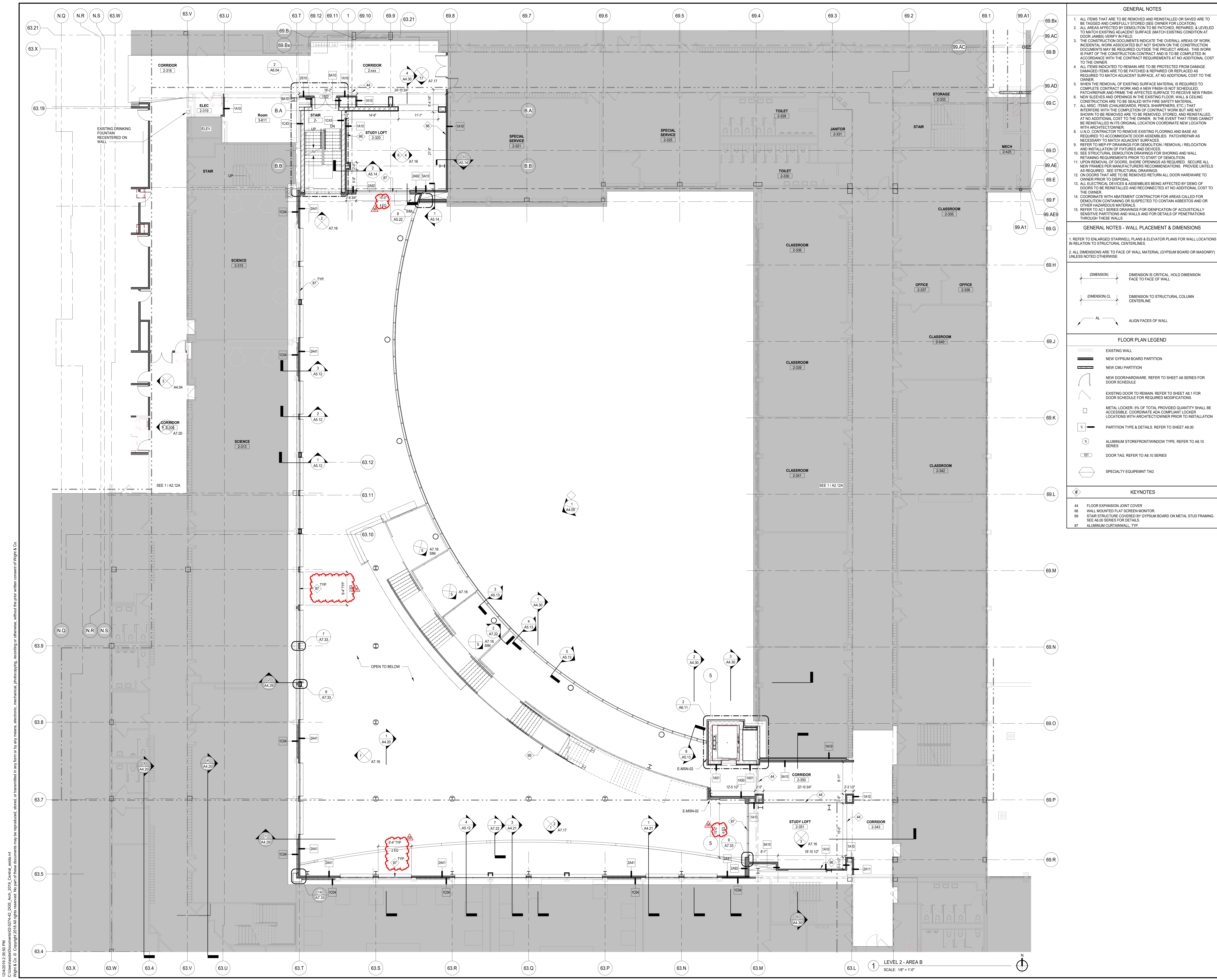
1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

FLOOR PLAN LEVEL 1 AREA F

Project Number: 5274-42
Drawn By: A.SASSILA
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 - THE CONSTRUCTION DOCUMENTS INDICATE THE OVERALL AREAS OF WORK. INCIDENTAL WORK ASSOCIATED BUT NOT SHOWN ON THE CONSTRUCTION DOCUMENTS MAY BE REQUIRED OUTSIDE THE PROJECT AREAS. THIS WORK IS PART OF THE CONSTRUCTION CONTRACT AND IS TO BE COMPLETED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
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 - U.N.O. CONTRACTOR TO REMOVE EXISTING FLOORING AND BASE AS REQUIRED TO ACCOMMODATE DOOR ASSEMBLIES. PATCH/REPAIR AS NECESSARY TO MATCH ADJACENT SURFACES.
 - REFER TO MFP DRAWINGS FOR DEMOLITION REMOVAL / RELOCATION AND INSTALLATION OF FIXTURES AND DEVICES.
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 - UPON REMOVAL OF DOORS, SHORE OPENINGS AS REQUIRED. SECURE ALL NEW FRAMES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE LIFELINES AS REQUIRED. SEE STRUCTURAL DRAWINGS.
 - ON DOORS THAT ARE TO BE REMOVED RETURN ALL DOOR HARDWARE TO OWNER PRIOR TO DISPOSAL.
 - ALL ELECTRICAL DEVICES & ASSEMBLIES BEING AFFECTED BY DEMO OF DOORS TO BE REINSTALLED AND RECONNECTED AT NO ADDITIONAL COST TO THE OWNER.
 - COORDINATE WITH ABATEMENT CONTRACTOR FOR AREAS CALLED FOR DEMOLITION CONTAINING OR SUSPECTED TO CONTAIN ASBESTOS AND OR OTHER HAZARDOUS MATERIALS.
 - REFER TO A/C SERIES DRAWINGS FOR IDENTIFICATION OF ACoustically SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
- GENERAL NOTES - WALL PLACEMENT & DIMENSIONS**
- REFER TO ENLARGED STAIRWELL PLANS & ELEVATOR PLANS FOR WALL LOCATIONS IN RELATION TO STRUCTURAL CENTERLINES.
 - ALL DIMENSIONS ARE TO FACE OF WALL MATERIAL (GYPSUM BOARD OR MASONRY) UNLESS NOTED OTHERWISE.
- (DIMENSION) DIMENSION IS CRITICAL. HOLD DIMENSION FACE TO FACE OF WALL.
- (DIMENSION) CL DIMENSION TO STRUCTURAL COLUMN CENTERLINE.
- AL ALIGN FACES OF WALL.
- FLOOR PLAN LEGEND**
- EXISTING WALL
 - NEW GYPSUM BOARD PARTITION
 - NEW CMU PARTITION
 - NEW DOOR-HARDWARE. REFER TO SHEET AS SERIES FOR DOOR SCHEDULE.
 - EXISTING DOOR TO REMAIN. REFER TO SHEET AS.1 FOR DOOR SCHEDULE FOR REQUIRED MODIFICATIONS.
 - METAL LOCKER. 5% OF TOTAL PROVIDED QUANTITY SHALL BE ACCESSIBLE. COORDINATE ADA COMPLIANT LOCKER LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
 - PARTITION TYPE & DETAILS. REFER TO SHEET AS.00.
 - ALUMINUM STOREFRONT/WINDOW TYPE. REFER TO AS.10 SERIES.
 - DOOR TAG. REFER TO AS.10 SERIES.
 - SPECIALTY EQUIPMENT TAG.
- KEYNOTES**
- 44 FLOOR EXPANSION JOINT COVER
 - 66 WALL MOUNTED FLAT SCREEN MONITOR
 - 69 STAIR STRUCTURE COVERED BY GYPSUM BOARD ON METAL STUD FRAMING. SEE A4.00 SERIES FOR DETAILS.
 - 87 ALUMINUM CURTAINWALL, TYP.

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**FLOOR PLAN LEVEL 2
AREA B**

36 ISSUED FOR ADDENDUM 2 - BGS 12.04.2019
34 ISSUED FOR 75% CONSTRUCTION DOCUMENTS - PHASE C 10.14.2019
ISSUED FOR DESIGN DEVELOPMENT 07.12.2019
ISSUED FOR CODE CONSULTANT REVIEW 02.20.2019
ISSUED FOR SCHEMATIC DESIGN 11.05.2018

REV DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

**FLOOR PLAN LEVEL 2
AREA B**

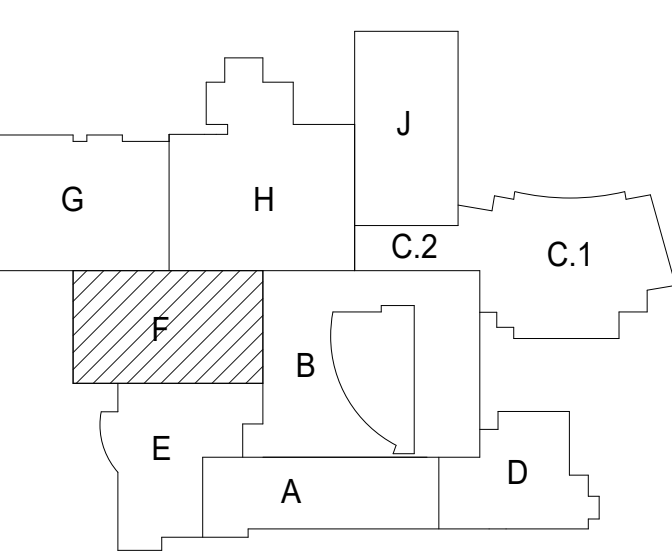
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5274-42
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A2.12B



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MFP IMPLEMENTATION - SOUTH

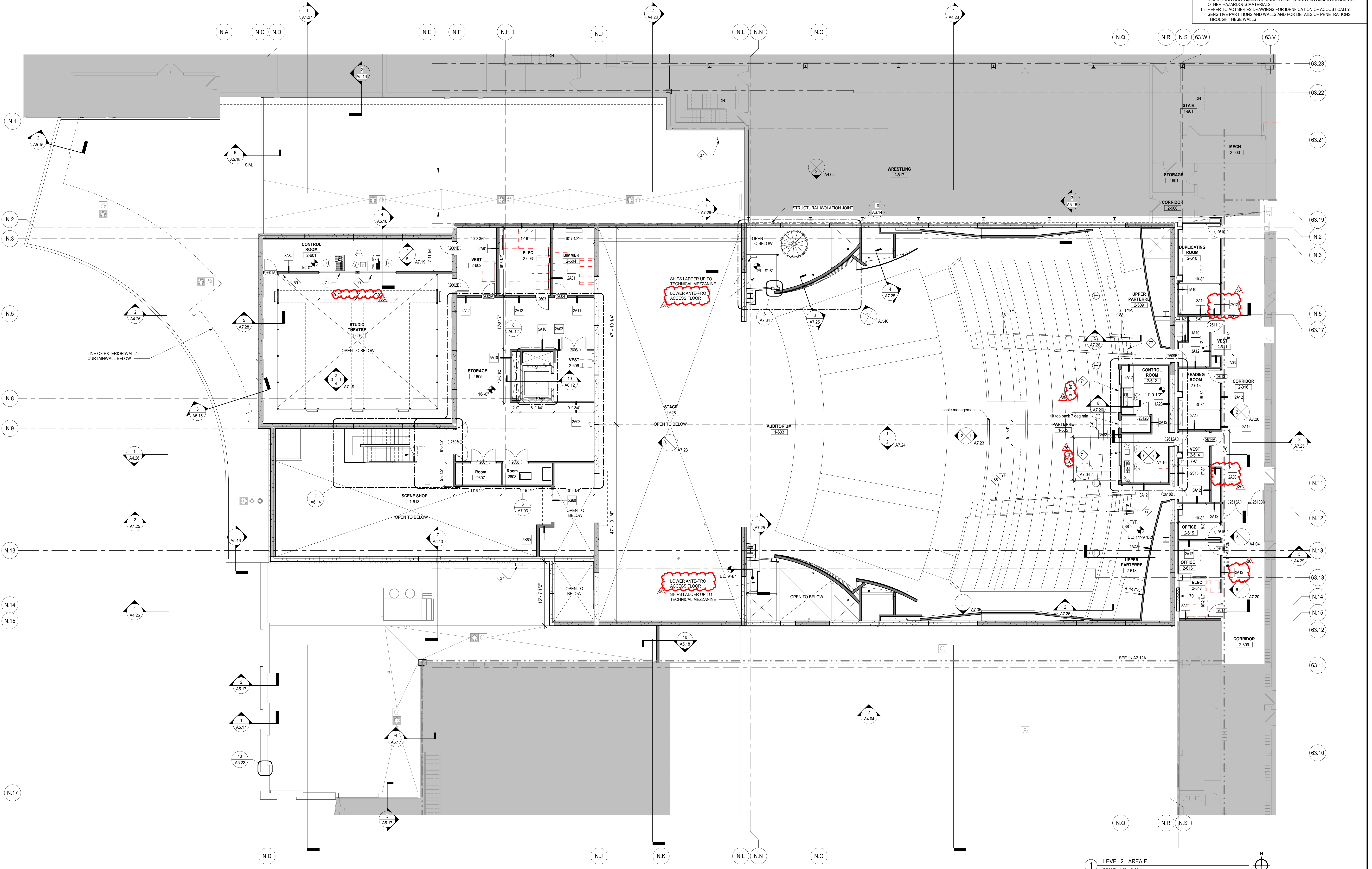
1436 NORFOLK STREET
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FLOOR PLAN LEVEL 2 AREA F

Project Number:
5274-42
Drawn By:
A.SASSILA
Sheet:

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#	KEYNOTES	FLOOR PLAN LEGEND	GENERAL NOTES - WALL PLACEMENT & DIMENSIONS	GENERAL NOTES
37	ALUMINUM LADDER WITH PARAPET PLATFORM.	EXISTING WALL	1. REFER TO ENLARGED STARWELL PLANS & ELEVATOR PLANS FOR WALL LOCATIONS IN RELATION TO STRUCTURAL CENTERLINES.	1. ALL ITEMS THAT ARE TO BE REMOVED AND REINSTALLED OR SAVED ARE TO BE TAGGED AND CAREFULLY STORED (SEE OWNER FOR LOCATION).
59	HORIZONTAL COMPRESSION CAP PASS THROUGH. SEE DETAIL 6A7.28	NEW GYPSUM BOARD PARTITION	2. ALL DIMENSIONS ARE TO FACE OF WALL MATERIAL (GYPSUM BOARD OR MASONRY) UNLESS NOTED OTHERWISE.	2. ALL AREAS AFFECTED BY DEMOLITION TO BE PATCHED, REPAIRED & LEVELED TO MATCH EXISTING ADJACENT SURFACE (MATCH EXISTING CONDITION AT DOOR JAMBES VERIFY IN FIELD).
70	INFL. OPENINGS TO MATCH EXISTING FINISHES AT INTERIOR SIDE SECTION 060613	NEW CMU PARTITION	(DIMENSION) DIMENSION IS CRITICAL. HOLD DIMENSION FACE TO FACE OF WALL.	3. THE CONSTRUCTION DOCUMENTS INDICATE THE OVERALL AREAS OF WORK. INCIDENTAL WORK ASSOCIATED BUT NOT SHOWN ON THE CONSTRUCTION DOCUMENTS MAY BE REQUIRED OUTSIDE THE PROJECT AREAS. THIS WORK IS PART OF THE CONSTRUCTION CONTRACT AND IS TO BE COMPLETED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
71	STC RATED OPERABLE CONTROL ROOM WINDOW. REFER TO SPECIFICATION SECTION 060613	NEW DOOR-HARDWARE. REFER TO SHEET A8 SERIES FOR DOOR SCHEDULE.	(DIMENSION) CL DIMENSION TO STRUCTURAL COLUMN CENTERLINE.	4. ALL ITEMS INDICATED TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DAMAGED ITEMS ARE TO BE PATCHED & REPAIRED OR REPLACED AS REQUIRED TO MATCH ADJACENT SURFACE. AT NO ADDITIONAL COST TO THE OWNER.
77	CAST IN PLACE FORMED CONCRETE STEPS	EXISTING DOOR TO REMAIN. REFER TO SHEET A8.1 FOR DOOR SCHEDULE FOR REQUIRED MODIFICATIONS.	AL ALIGN FACES OF WALL.	5. WHEN THE REMOVAL OF EXISTING SURFACE MATERIAL IS REQUIRED TO COMPLETE CONTRACT WORK AND A NEW FINISH IS NOT SCHEDULED, PATCH/REPAIR AND PRIME THE AFFECTED SURFACE TO RECEIVE NEW FINISH.
88	PTD STEEL HANDRAIL, TYP.	METAL LOCKER: 5% OF TOTAL PROVIDED QUANTITY SHALL BE ACCESSIBLE. COORDINATE ADA COMPLIANT LOCKER LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.	WORK SCOPE LEGEND	6. NEW SLEEVES AND OPENINGS IN THE EXISTING FLOOR, WALL & CEILING CONSTRUCTION ARE TO BE SEALED WITH FIRE SAFETY MATERIAL.
90	CONTROL ROOM WINDOW RAILING MUST MAINTAIN MINIMAL VISUAL OBSTRUCTION.	PARTITION TYPE & DETAILS. REFER TO SHEET A8.00	INCIDENTAL WORK AREA	7. ALL MISC. ITEMS (CHAIRBOARDS, PENCIL SHARPENERS, ETC.) THAT INTERFERE WITH THE COMPLETION OF CONTRACT WORK BUT ARE NOT SHOWN TO BE REMOVED ARE TO BE REMOVED, STORED, AND REINSTALLED AT NO ADDITIONAL COST TO THE OWNER. IN THE EVENT THAT ITEMS CANNOT BE REINSTALLED IN ITS ORIGINAL LOCATION COORDINATE NEW LOCATION WITH ARCHITECT/OWNER.
		ALUMINUM STOREFRONT/WINDOW TYPE. REFER TO A8.10 SERIES	WORK AREA	8. U.N.O. CONTRACTOR TO REMOVE EXISTING FLOORING AND BASE AS REQUIRED TO ACCOMMODATE DOOR ASSEMBLIES. PATCH/REPAIR AS NECESSARY TO MATCH ADJACENT SURFACES.
		DOOR TAG. REFER TO A8.10 SERIES		9. REFER TO MFP DRAWINGS FOR DEMOLITION/REMOVAL/RELOCATION AND INSTALLATION OF FIXTURES AND DEVICES.
		SPECIALTY EQUIPMENT TAG		10. SEE STRUCTURAL DEMOLITION DRAWINGS FOR SHORING AND WALL RETAINING REQUIREMENTS PRIOR TO START OF DEMOLITION.



1 LEVEL 2 - AREA F
SCALE: 1/8" = 1'-0"

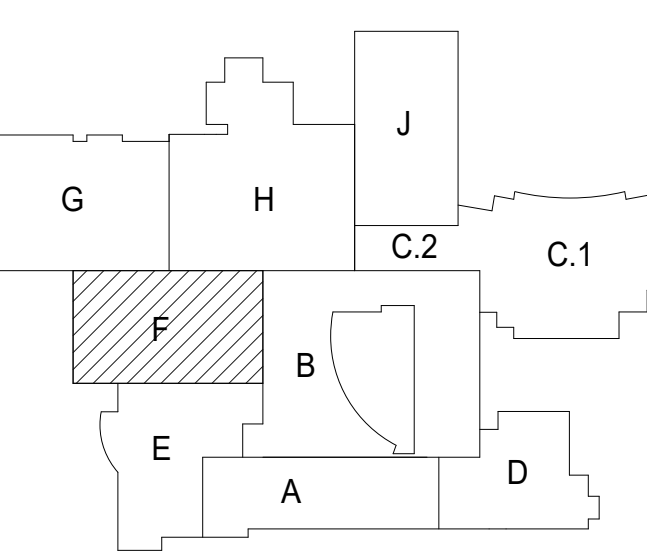
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34	ISSUED FOR 75% CONSTRUCTION DOCUMENTS - PHASE C	10.14.2019
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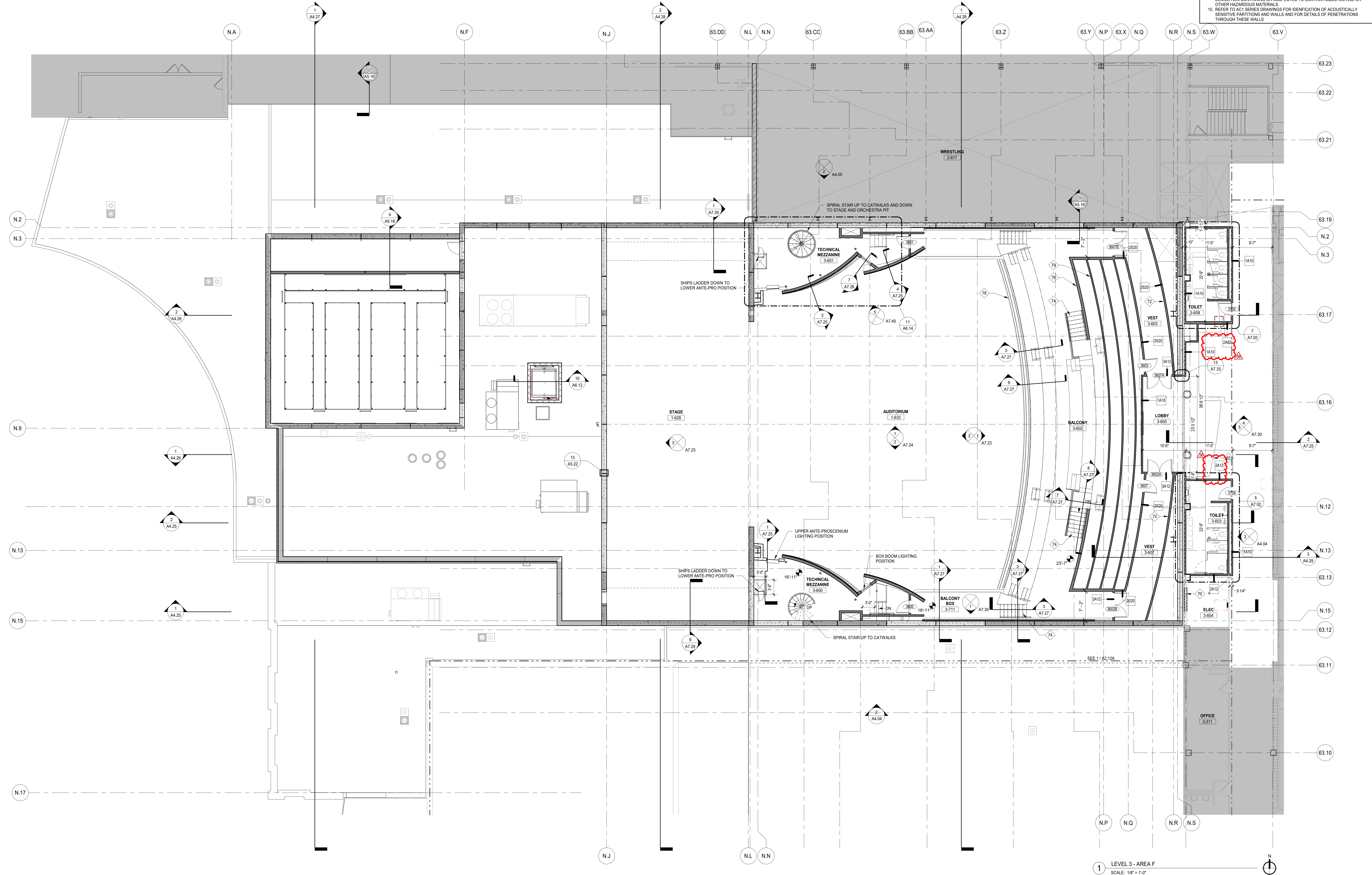
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FLOOR PLAN LEVEL 3 AREA F

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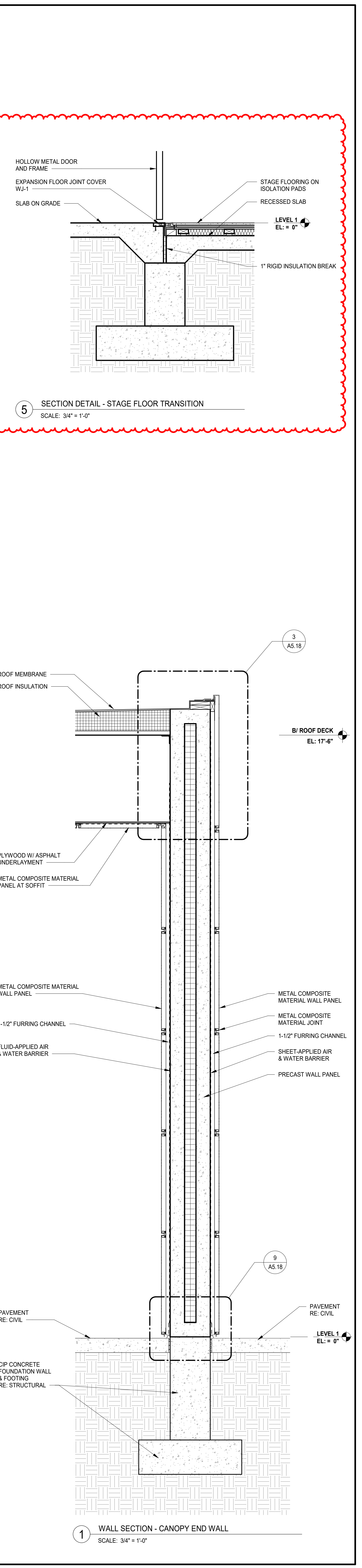
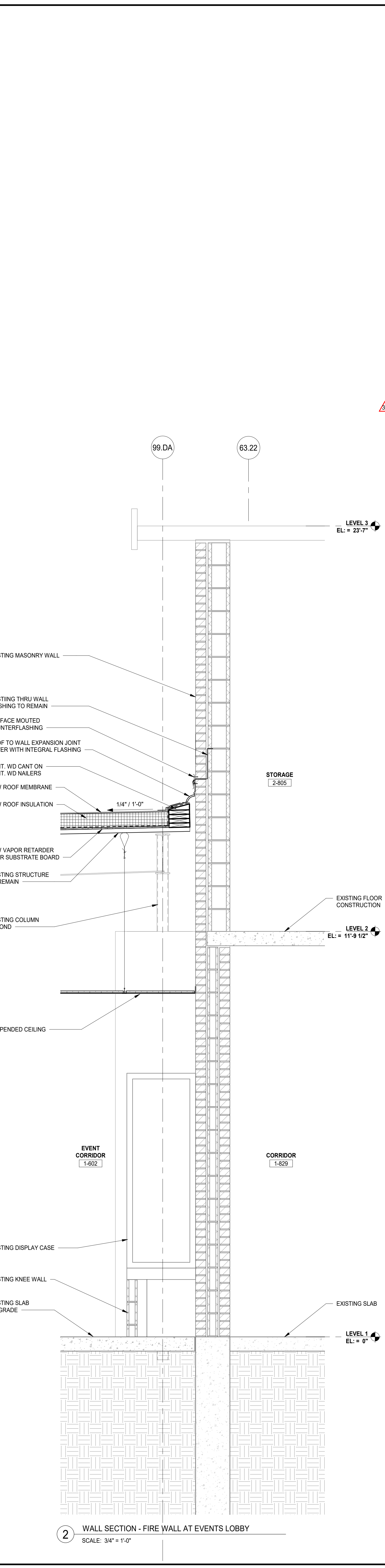
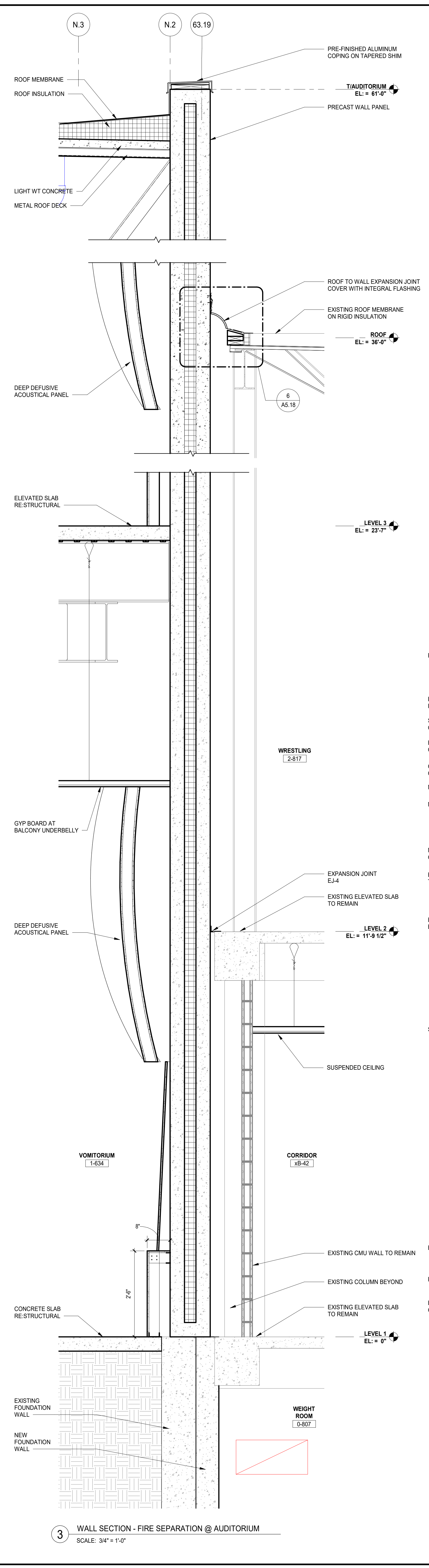
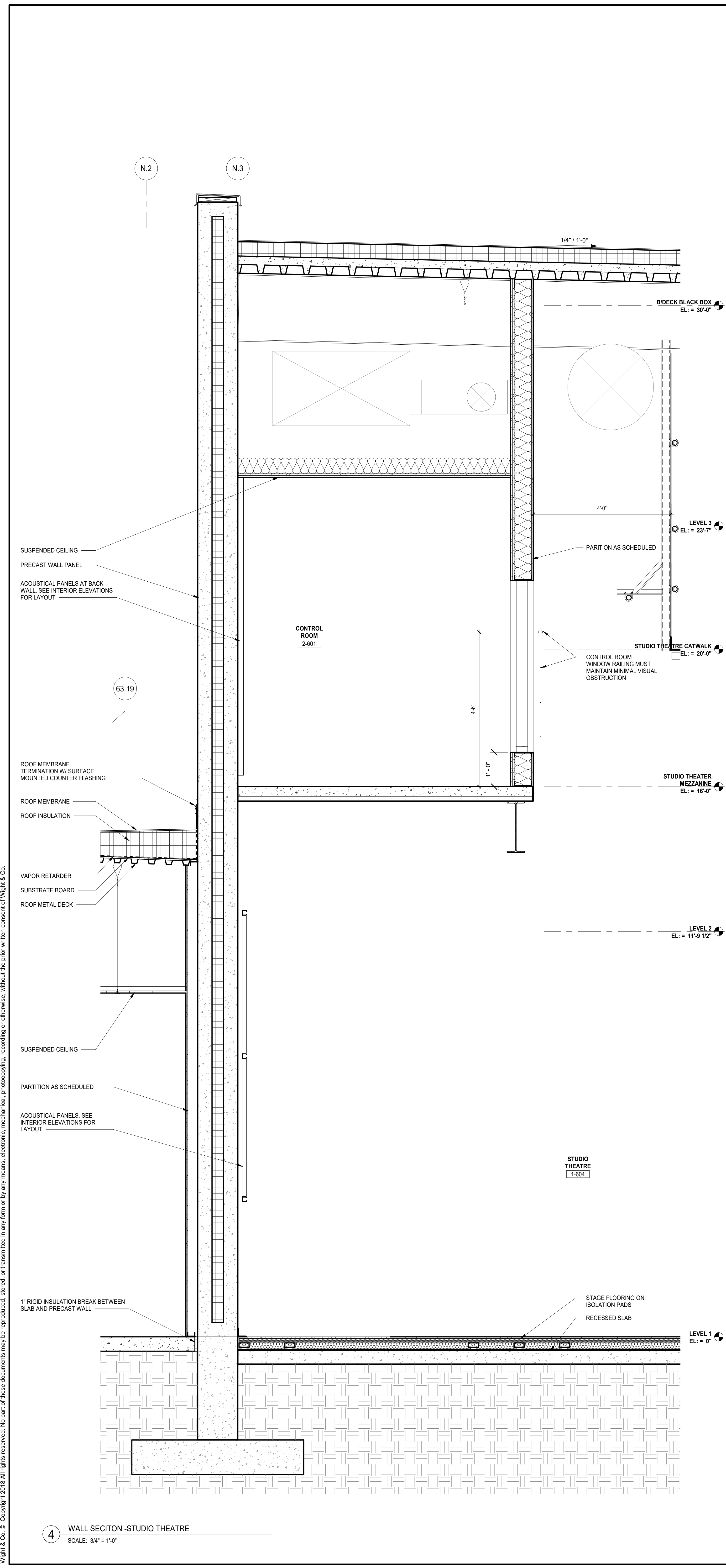
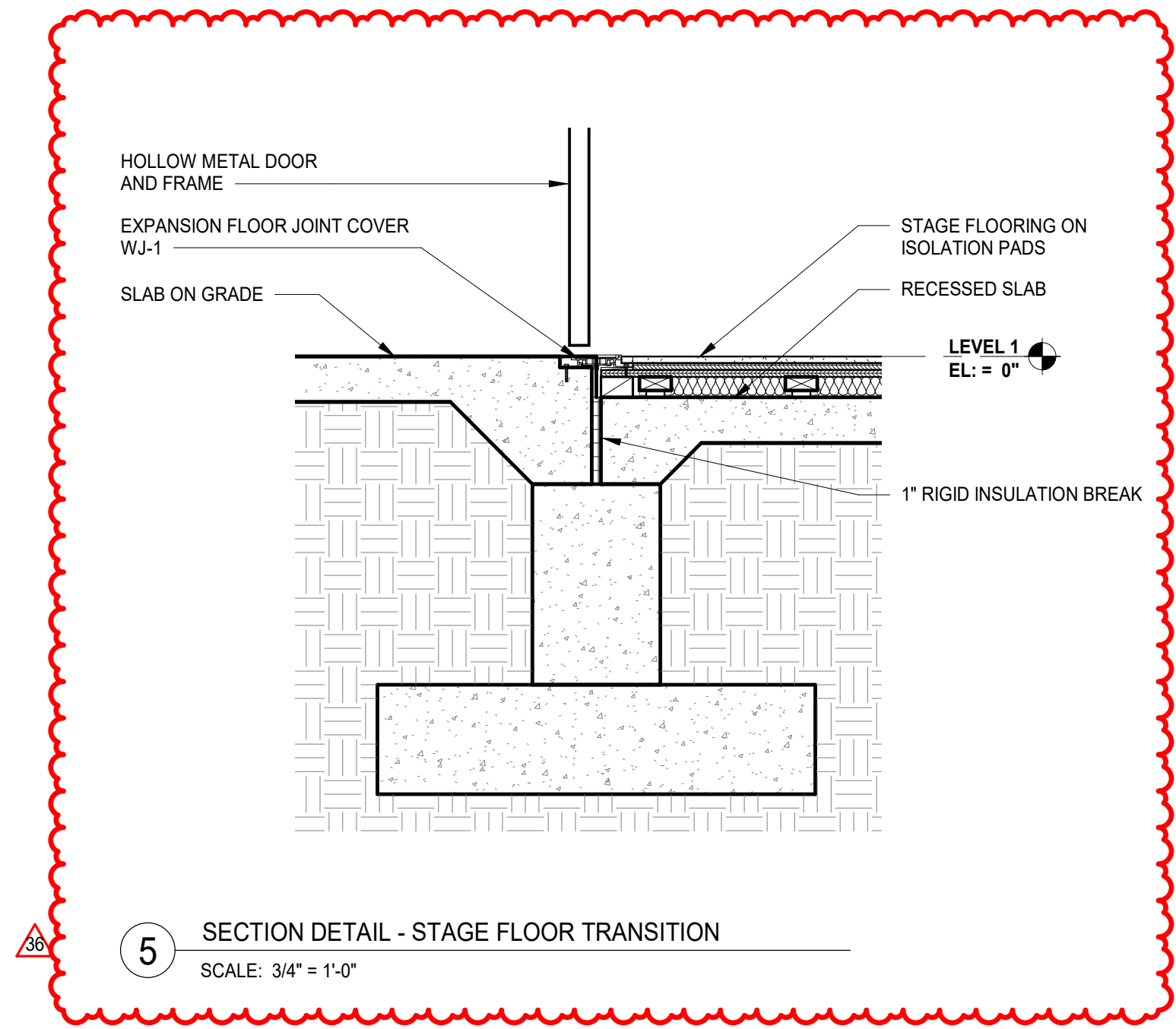
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#	KEYNOTES	FLOOR PLAN LEGEND	GENERAL NOTES - WALL PLACEMENT & DIMENSIONS	GENERAL NOTES
70	INFILL OPENING TO MATCH EXISTING FINISHES AT INTERIOR SIDE	EXISTING WALL	1. REFER TO ENLARGED STARWELL PLANS & ELEVATOR PLANS FOR WALL LOCATIONS IN RELATION TO STRUCTURAL CENTERLINES.	1. ALL ITEMS THAT ARE TO BE REMOVED AND REINSTALLED OR SAVED ARE TO BE TAGGED AND CAREFULLY STORED (SEE OWNER FOR LOCATION).
72	ACOUSTICAL PANELS ON ALL WALLS OF VESTIBULE	NEW GYPSUM BOARD PARTITION	2. ALL DIMENSIONS ARE TO FACE OF WALL MATERIAL (GYPSUM BOARD OR MASONRY) UNLESS NOTED OTHERWISE.	2. ALL AREAS AFFECTED BY DEMOLITION TO BE PATCHED, REPAIRED, & LEVELED TO MATCH EXISTING ADJACENT SURFACE (MATCH EXISTING CONDITION AT DOOR JAMBES VERIFY IN FIELD).
74	STEEL STAIR CONSTRUCTION WITH CONCRETE FILLED METAL PAN TREADS. SEE FINISH PLANS FOR TREADS AND LANDING FINISHES	NEW CMU PARTITION	(DIMENSION) DIMENSION IS CRITICAL. HOLD DIMENSION FACE TO FACE OF WALL.	3. THE CONSTRUCTION DOCUMENTS INDICATE THE OVERALL AREAS OF WORK. INCIDENTAL WORK ASSOCIATED BUT NOT SHOWN ON THE CONSTRUCTION DOCUMENTS MAY BE REQUIRED OUTSIDE THE PROJECT AREAS. THIS WORK IS PART OF THE CONSTRUCTION CONTRACT AND IS TO BE COMPLETED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
76	GYPSUM BOARD GUARDRAIL WITH SOLID SURFACE CAP	EXISTING DOOR TO REMAIN. REFER TO SHEET A8.1 FOR DOOR SCHEDULE FOR REQUIRED MODIFICATIONS.	(DIMENSION) DIMENSION TO STRUCTURAL COLUMN CENTERLINE.	4. ALL ITEMS INDICATED TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DAMAGED ITEMS ARE TO BE PATCHED & REPAIRED OR REPLACED AS REQUIRED TO MATCH ADJACENT SURFACE. AT NO ADDITIONAL COST TO THE OWNER.
78	COLD-FORMED METAL FRAMING SUPPORTING THEATER SEATING PLATFORMS. TYP. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION	METAL LOCKER: 5% OF TOTAL PROVIDED QUANTITY SHALL BE ACCESSIBLE. COORDINATE ADA COMPLIANT LOCKER LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION	AL ALIGN FACES OF WALL.	5. WHEN THE REMOVAL OF EXISTING SURFACE MATERIAL IS REQUIRED TO COMPLETE CONTRACT WORK AND A NEW FINISH IS NOT SCHEDULED, PATCH/REPAIR AND PRIME THE AFFECTED SURFACE TO RECEIVE NEW FINISH.
82	LINE OF NON STRUCTURAL TOPPING SLAB OVER GEOPFORM AT EXISTING CONCRETE STEPS	PARTITION TYPE & DETAILS. REFER TO SHEET A8.00		6. NEW SLEEVES AND OPENINGS IN THE EXISTING FLOOR, WALL & CEILING CONSTRUCTION ARE TO BE SEALED WITH FIRE SAFETY MATERIAL.
		ALUMINUM STOREFRONT/WINDOW TYPE. REFER TO A8.10 SERIES		7. ALL MISC. ITEMS (CHAIRBAR/SPINDS, FINISH SHARPENERS, ETC.) THAT INTERFERE WITH THE COMPLETION OF CONTRACT WORK BUT ARE NOT SHOWN TO BE REMOVED ARE TO BE REMOVED, STORED, AND REINSTALLED AT NO ADDITIONAL COST TO THE OWNER. IN THE EVENT THAT ITEMS CANNOT BE REINSTALLED IN ITS ORIGINAL LOCATION COORDINATE NEW LOCATION WITH ARCHITECT/OWNER.
		DOOR TAG. REFER TO A8.10 SERIES		8. U.O. CONTRACTOR TO REMOVE EXISTING FLOORING AND BASE AS REQUIRED TO ACCOMMODATE DOOR ASSEMBLIES. PATCH/REPAIR AS NECESSARY TO MATCH ADJACENT SURFACES.
		SPECIALTY EQUIPMENT TAG		9. REFER TO MFP DRAWINGS FOR DEMOLITION REMOVAL / RELOCATION AND INSTALLATION OF FIXTURES AND DEVICES.
				10. SEE STRUCTURAL DEMOLITION DRAWINGS FOR SHORING AND WALL RETAINING REQUIREMENTS PRIOR TO START OF DEMOLITION.
				11. UPON REMOVAL OF DOORS, SHORE OPENINGS AS REQUIRED. SECURE ALL NEW FRAMES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE LITELAS AS REQUIRED. SEE STRUCTURAL DRAWINGS.
				12. ON DOORS THAT ARE TO BE REMOVED RETURN ALL DOOR HARDWARE TO OWNER PRIOR TO DISPOSAL.
				13. ALL ELECTRICAL DEVICES & ASSEMBLIES BEING AFFECTED BY DEMO OF DOORS TO BE REINSTALLED AND RECONNECTED AT NO ADDITIONAL COST TO THE OWNER.
				14. COORDINATE WITH ABATEMENT CONTRACTOR FOR AREAS CALLED FOR DEMOLITION CONTAINING OR SUSPECTED TO CONTAIN ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS.
				15. REFER TO ACI SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.



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1 LEVEL 3 - AREA F
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36	ISSUED FOR ADDENDUM 2 - BGS	12.04.2019
	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
34	ISSUED FOR 75% CONSTRUCTION DOCUMENTS - PHASE C	10.14.2019
	ISSUED FOR DESIGN DEVELOPMENT	07.12.2019

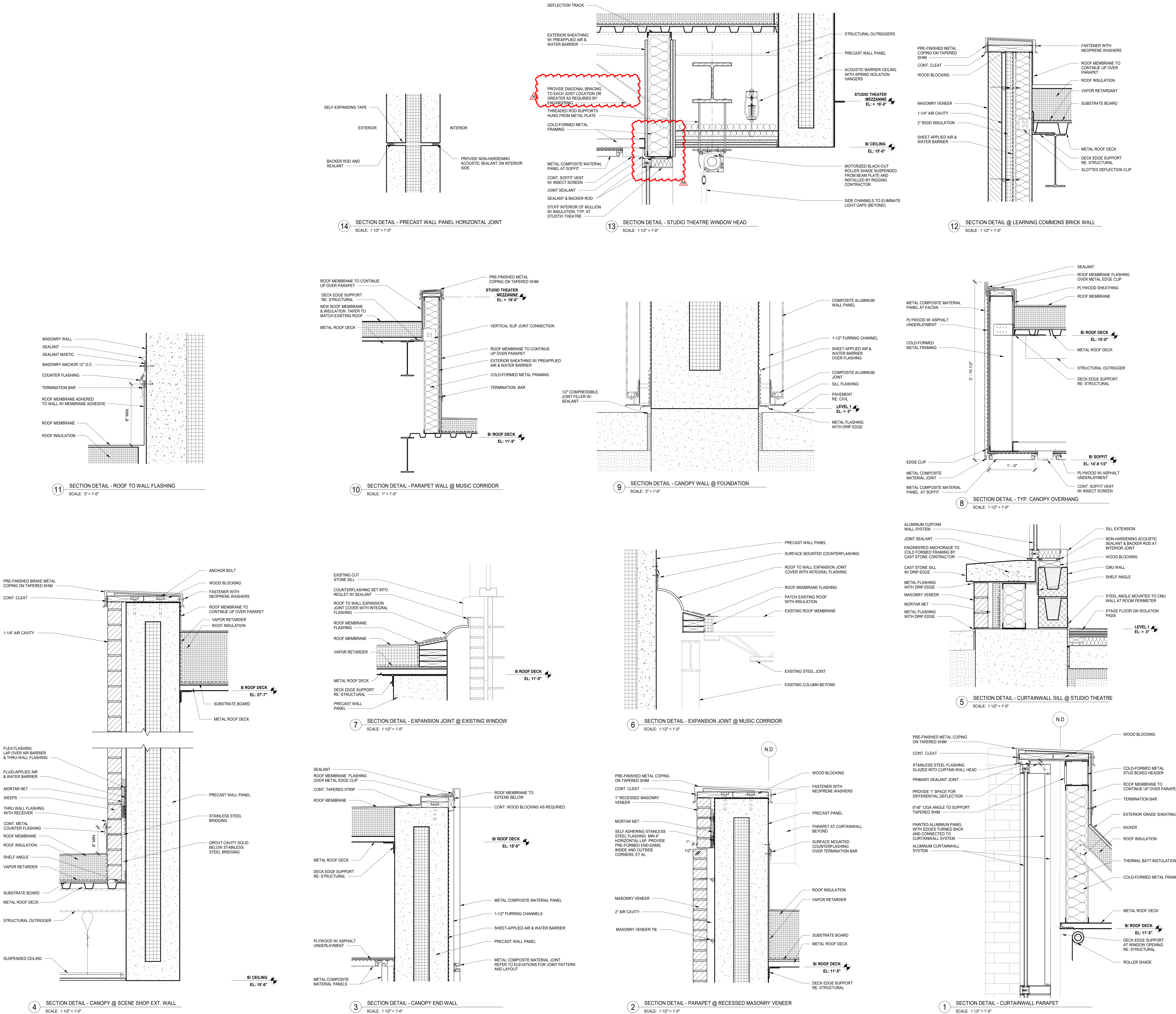
MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

EXTERIOR WALL SECTIONS & DETAILS - PHASE C

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Author
Sheet:

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33	ISSUED FOR DESIGN DEVELOPMENT	07.12.2019

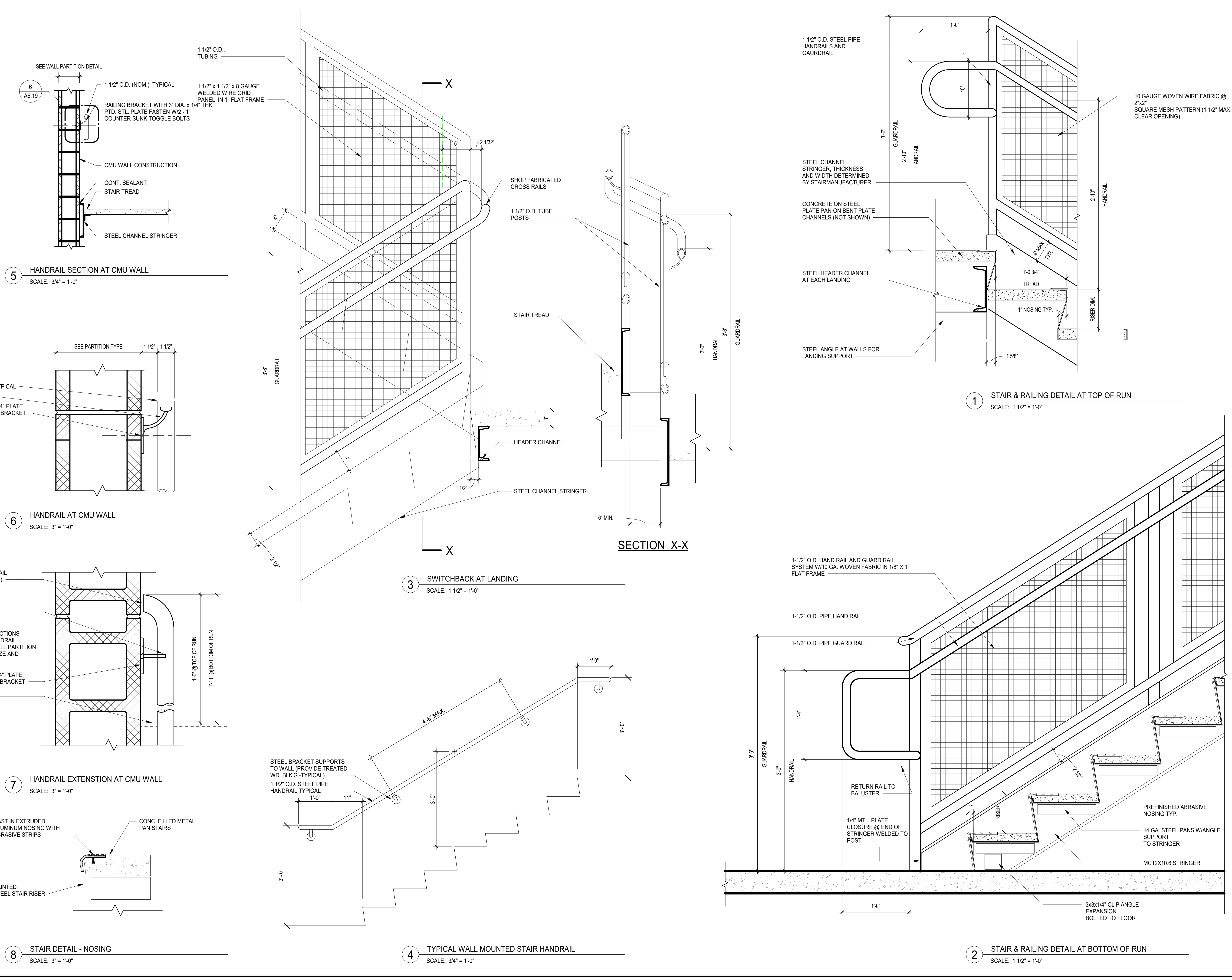
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EXTERIOR WALL SECTIONS & DETAILS - PHASE C

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PHASE A

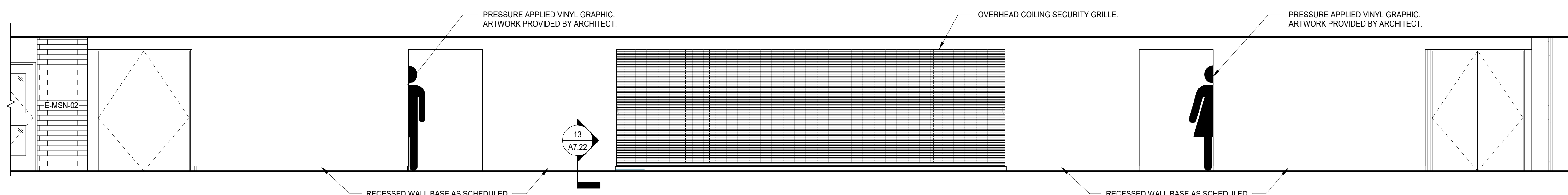
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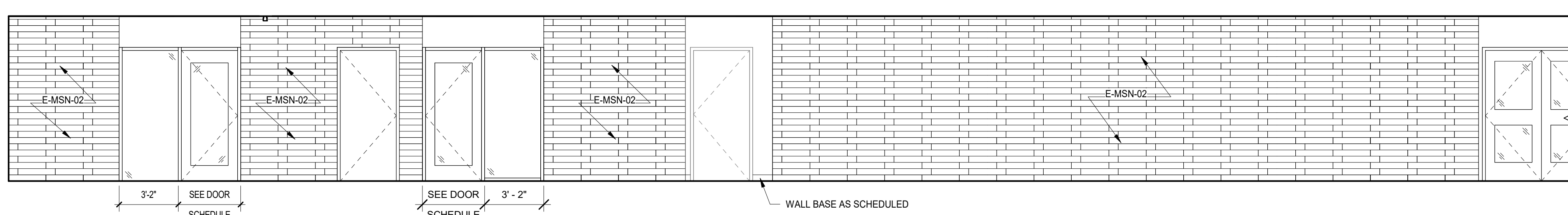
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**STAIR, RAMP, &
ELEVATOR SECTIONS &
DETAILS**

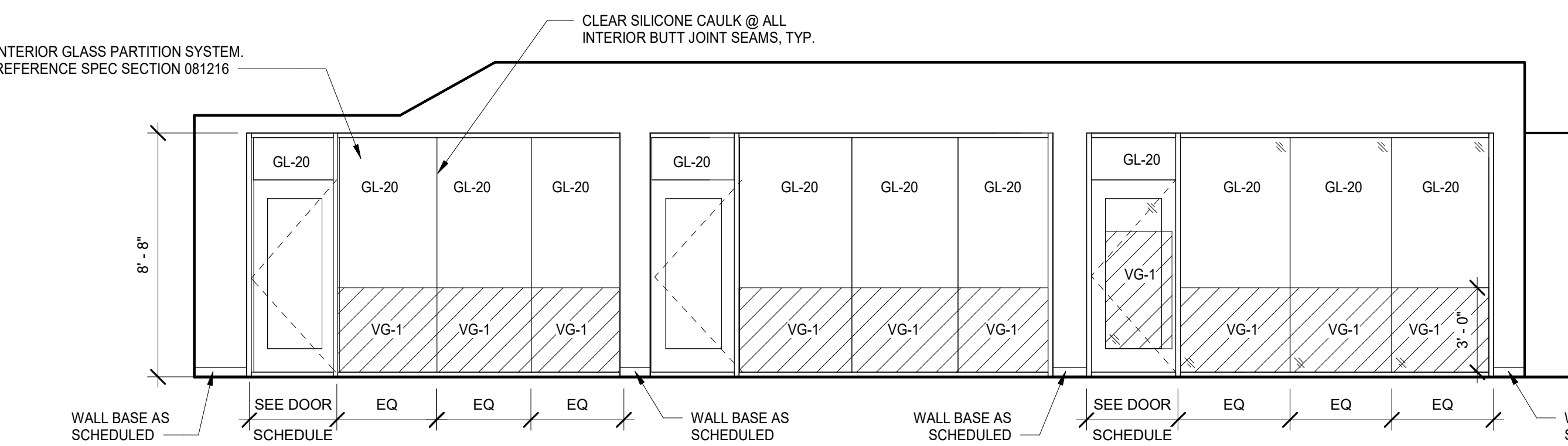
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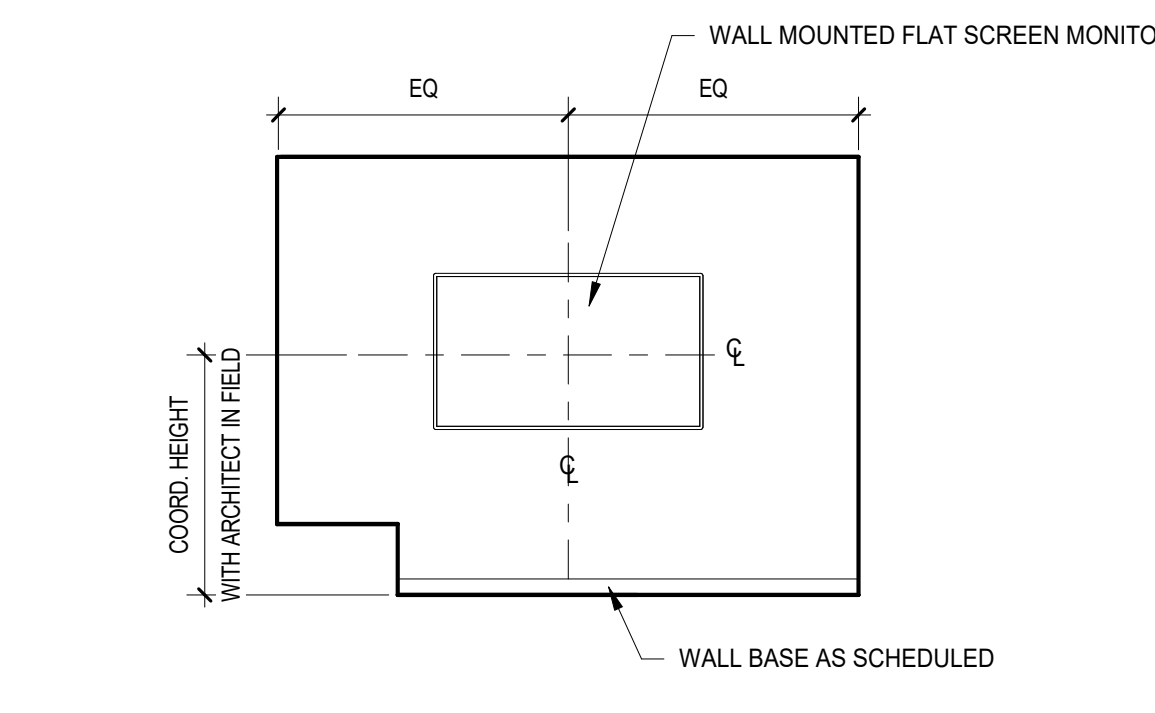
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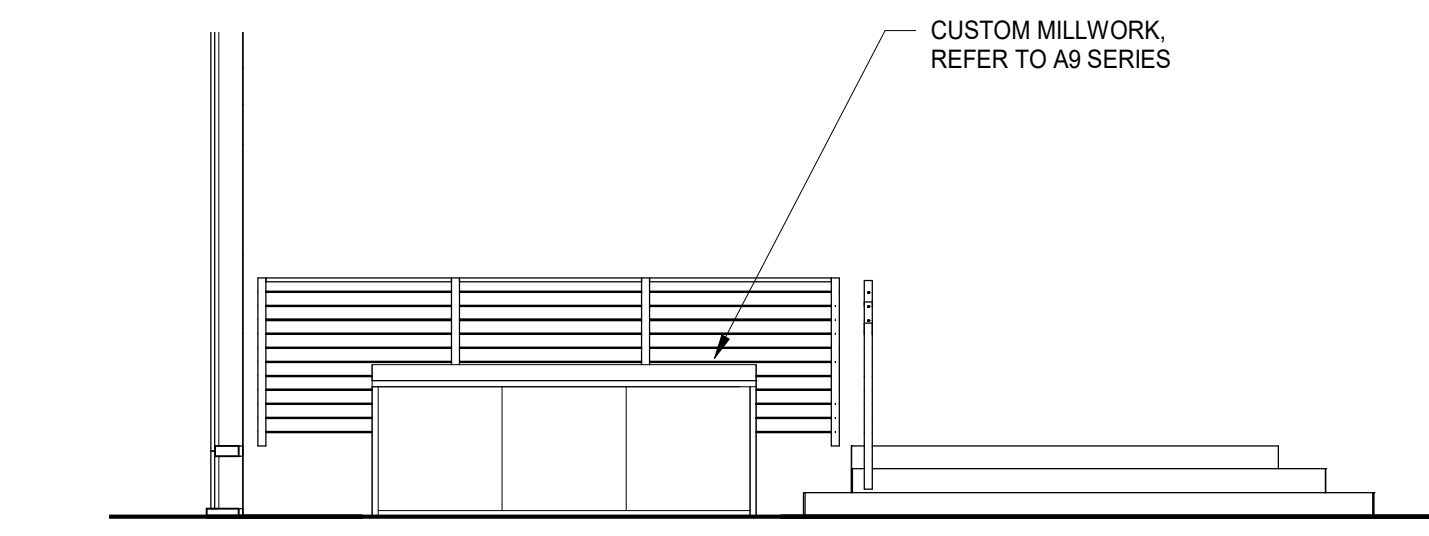
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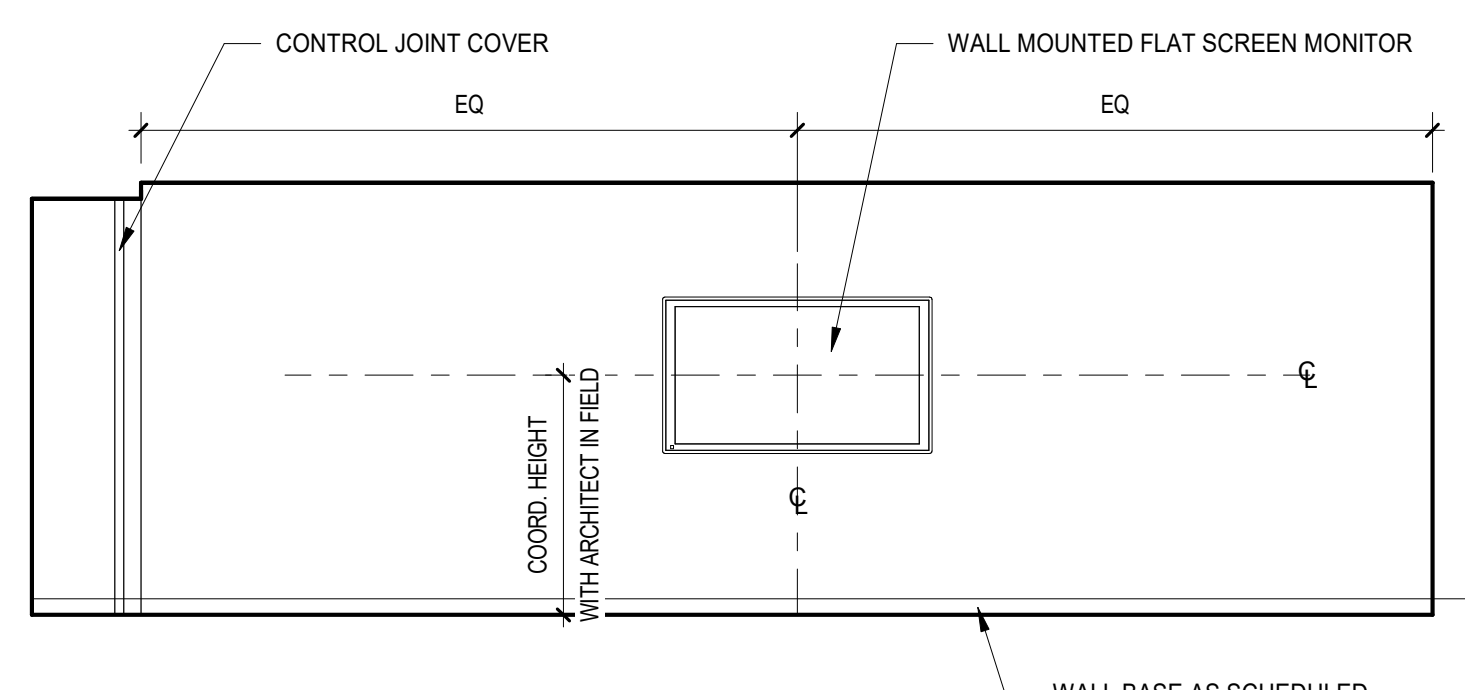
11 LEARNING COMMONS @ STUDY ROOMS & VEST 1-304
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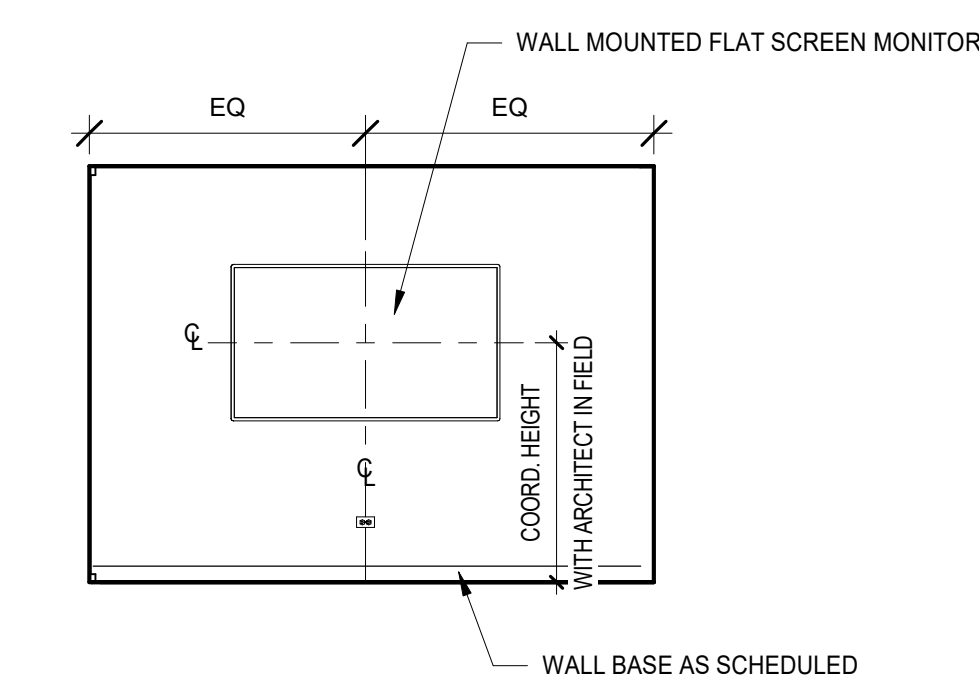
10 LEARNING COMMONS BELOW STAIRS SOUTHEAST
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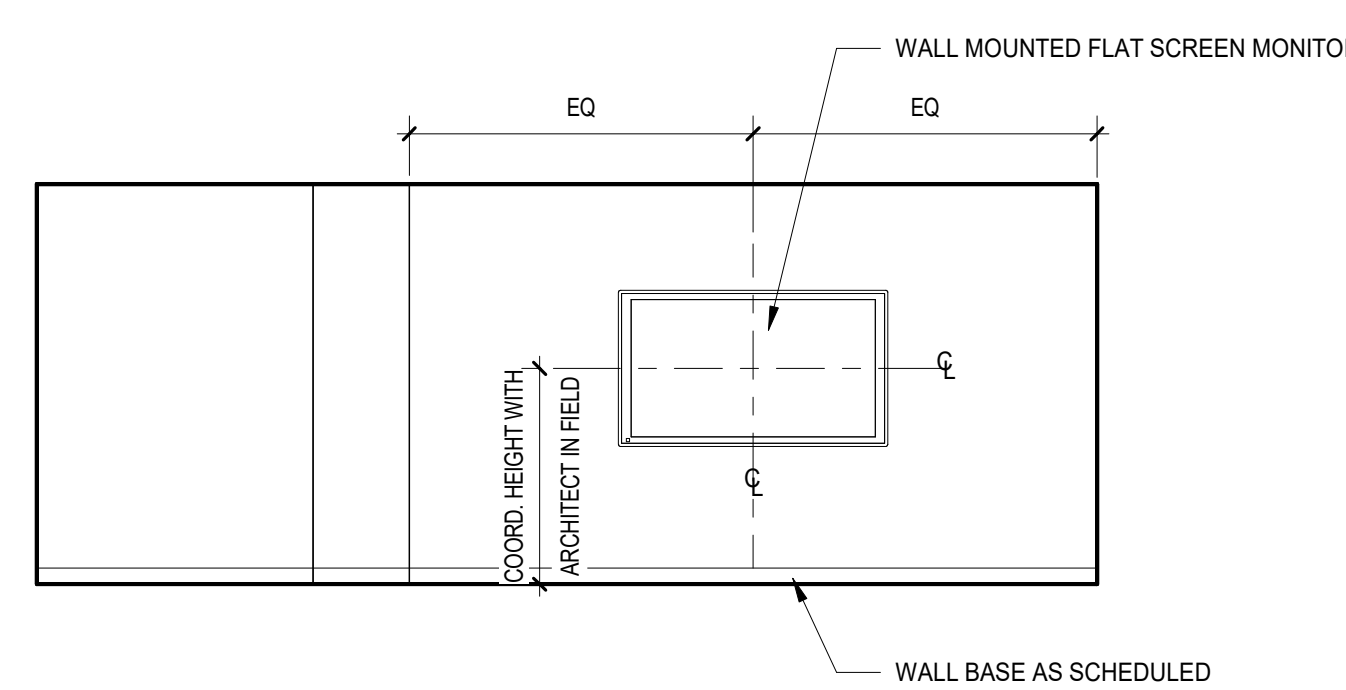
12 LEARNING COMMONS BOTTOMS OF STAIRS SOUTH
SCALE: 1/4" = 1'-0"



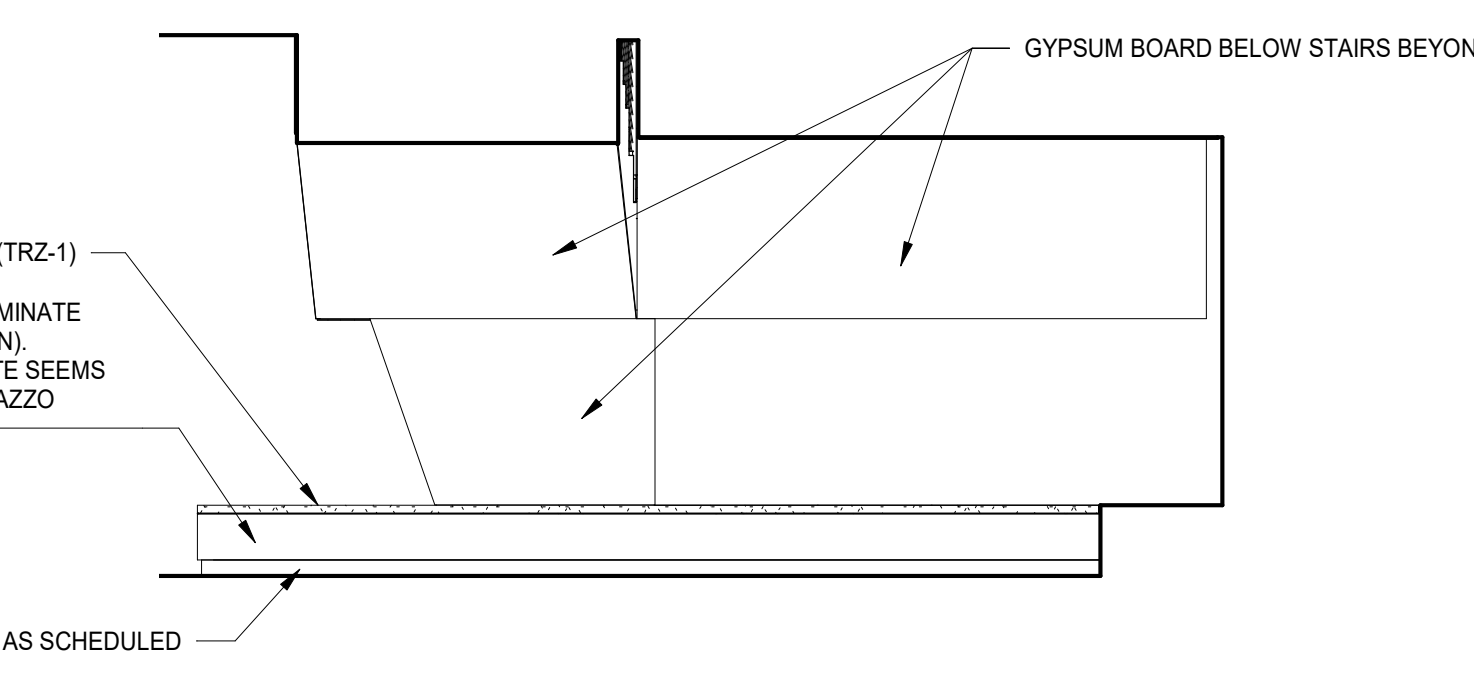
8 STUDY LOFT 2-376 SOUTH
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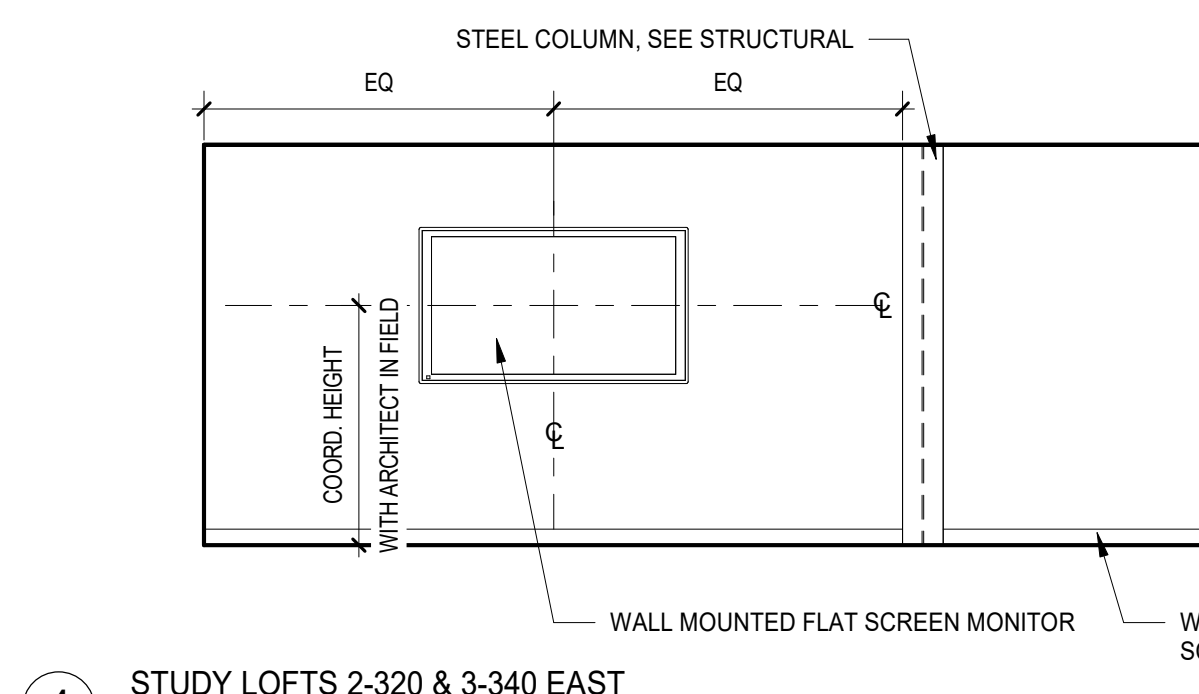
7 SMALL GROUP TYP. WALL MOUNTED FLAT SCREEN MONITOR
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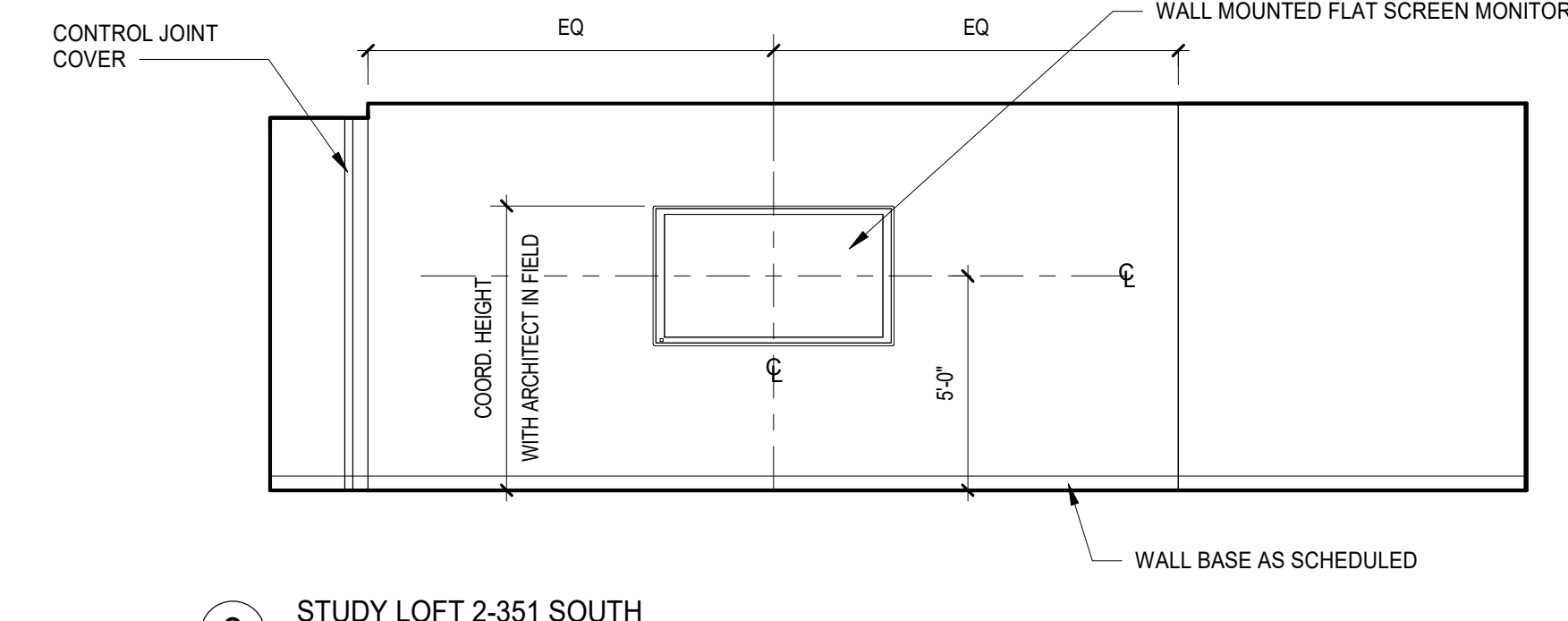
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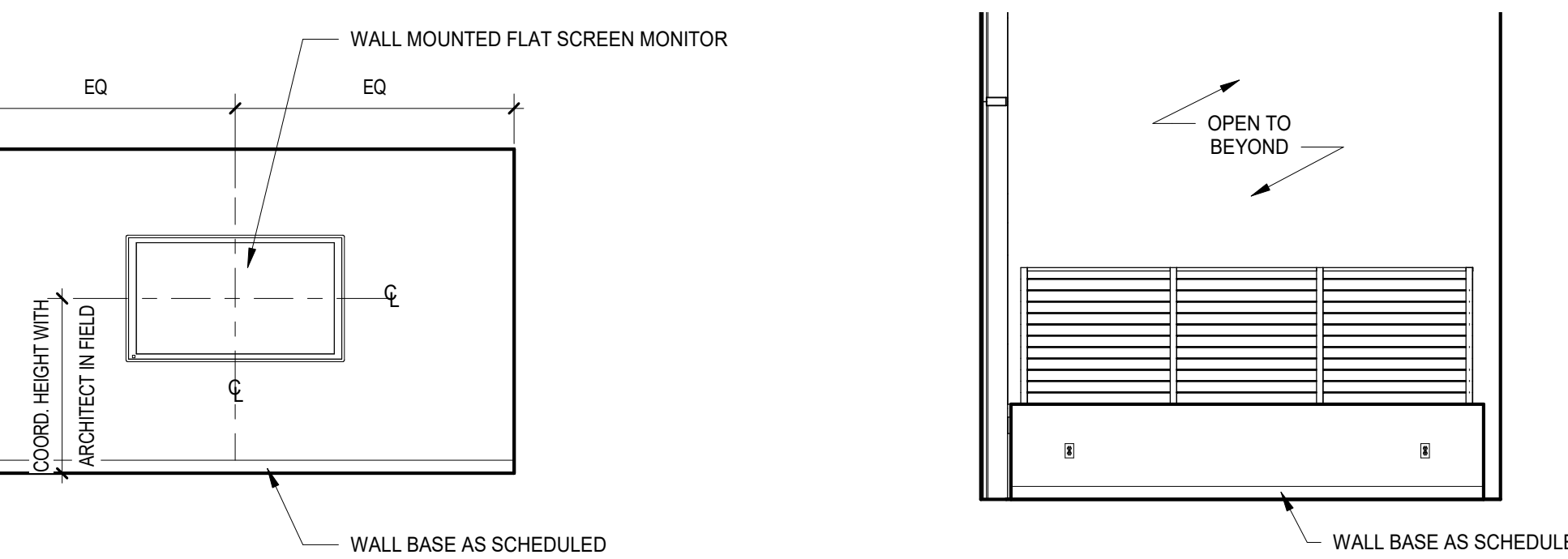
9 LEARNING COMMONS BELOW STAIRS NORTHWEST
SCALE: 1/4" = 1'-0"



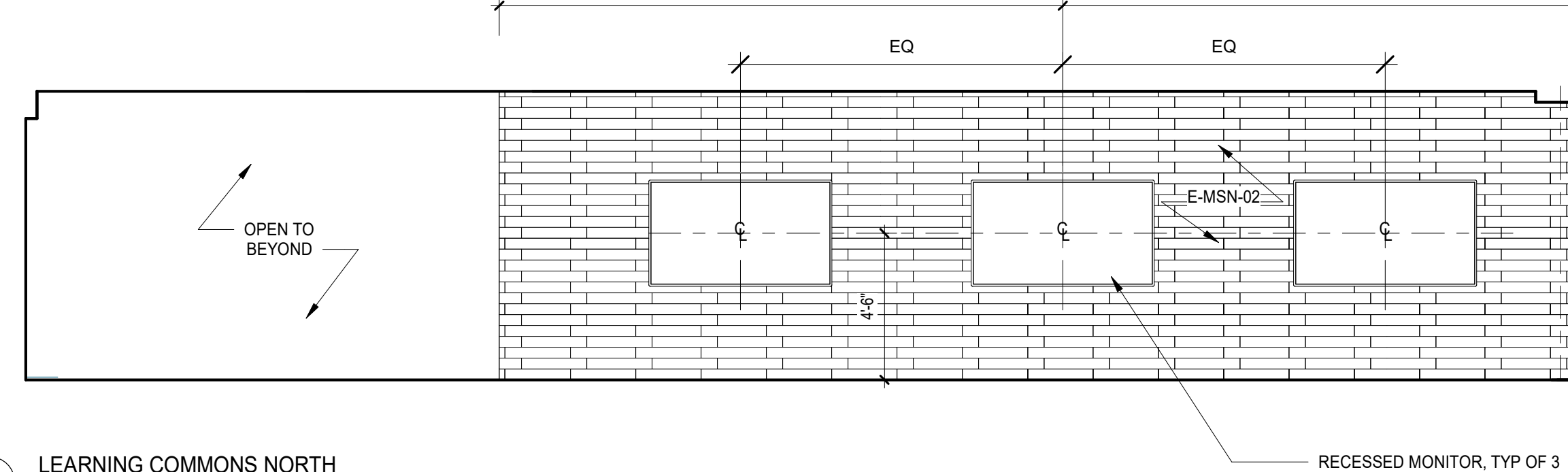
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3 STUDY LOFT 2-351 SOUTH
SCALE: 1/4" = 1'-0"



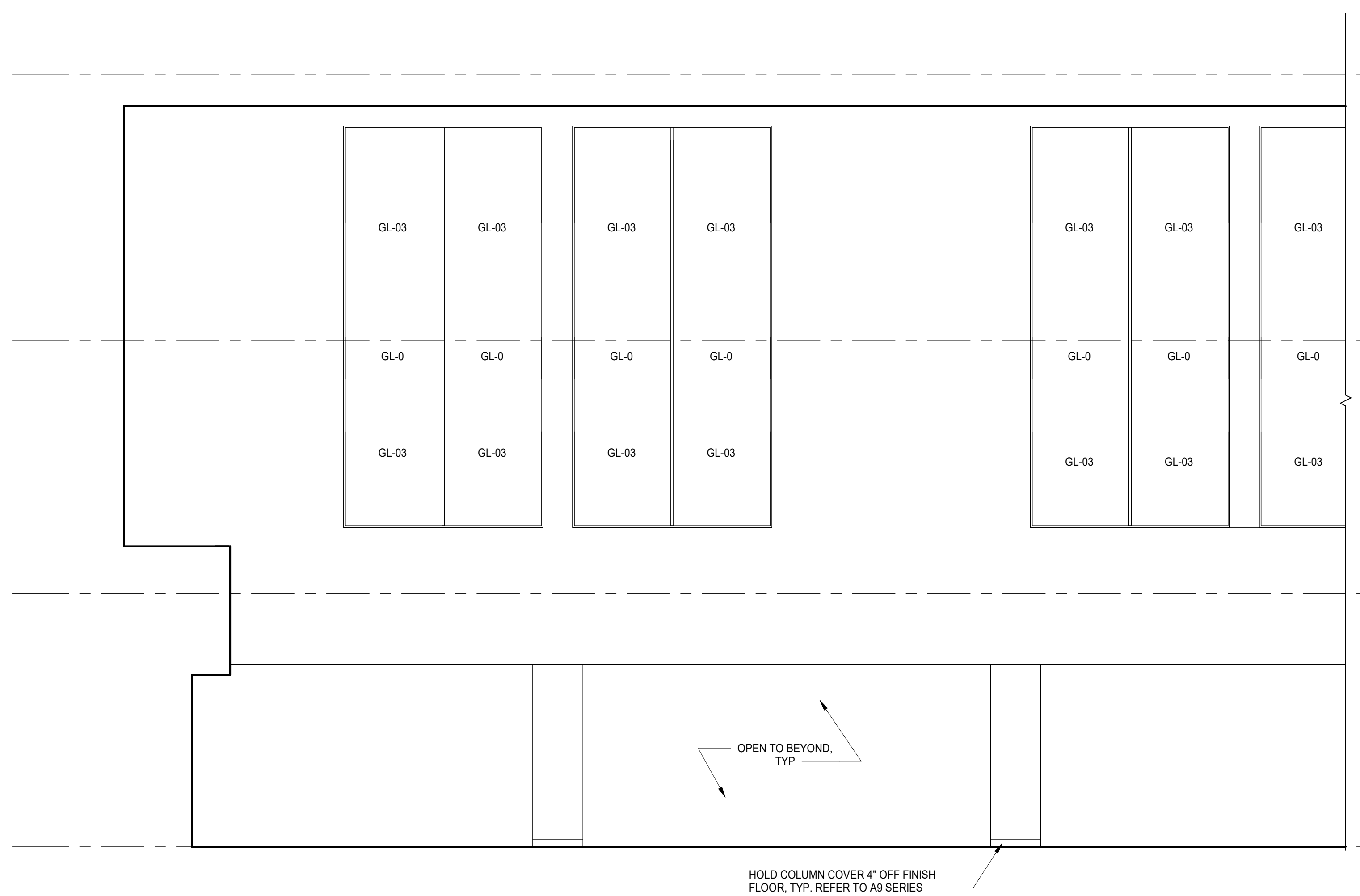
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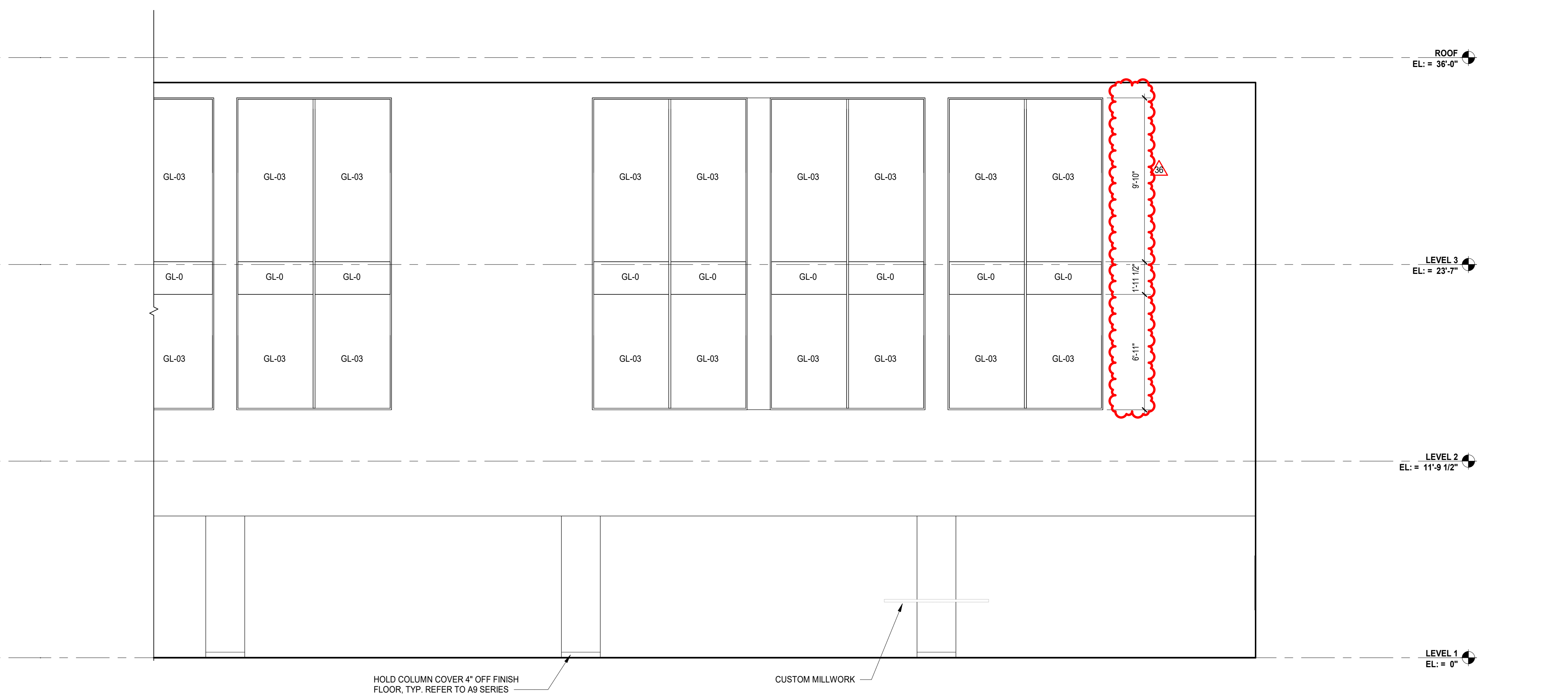
2 LEARNING COMMONS NORTH
SCALE: 1/4" = 1'-0"

Finish Mark	Description	Remarks
GL-0	9/16" LAMINATED GLASS UNIT	BLUE TINTED. COORDINATE WITH ARCHITECT
GL-01	1-5/16" LAMINATED GLASS UNIT CLEAR VISION GLASS W/ LOW-E COATING & SILK SCREENED CERAMIC ENAMEL FRIT	
GL-02	1-5/16" LAMINATED GLASS UNIT CLEAR VISION GLASS W/ ACID ETCH VELOUR & SILK SCREENED CERAMIC ENAMEL FRIT	
GL-03	9/16" LAMINATED GLASS UNIT	
GL-04	1-5/16" LAMINATED GLASS UNIT W/ LOW-E COATING	
GL-05	1" INSULATING GLASS UNIT W/ LOW-E COATING	
GL-06	1" INSULATING GLASS UNIT W/ LOW-E COATING & SILK SCREENED CERAMIC ENAMEL FRIT	POST-APPLIED REFLECTIVE FILM, 3M S20 SILVER SECURITY SHELF
GL-07	1" INSULATING GLASS UNIT CLEAR VISION GLASS W/ ACID ETCH VELOUR & SILK SCREENED CERAMIC ENAMEL FRIT	

Finish Mark	Description	Remarks
GL-08	1" INSULATING GLASS UNIT CLEAR VISION GLASS W/ ACID ETCH VELOUR	
GL-09	1-1/8" INSULATED GLASS UNIT OUTBOARD LITE LAMINATED (2) PLYES 5/16" CLEAR GLASS, INNER LAYER .060 AIR SPACE, 1/2" INBOARD LITE LAMINATED (2) PLYES 1/4" CLEAR GLASS, INNER LAYER .060	ALUMINUM FRAMING FILLED WITH BATT INSULATION
GL-20	1/4" INTERIOR GLAZING PANEL SYSTEM	
GL-22	3/8" CLEAR TEMPERED GLASS DISPLAY CASE DOOR	
GL-23	1/4" CLEAR TEMPERED GLASS DISPLAY CASE SHELF	
GL-25	9/16" LAMINATED GLASS UNIT	



1 COMMONS - WEST ELEVATION
SCALE: 1/4" = 1'-0"

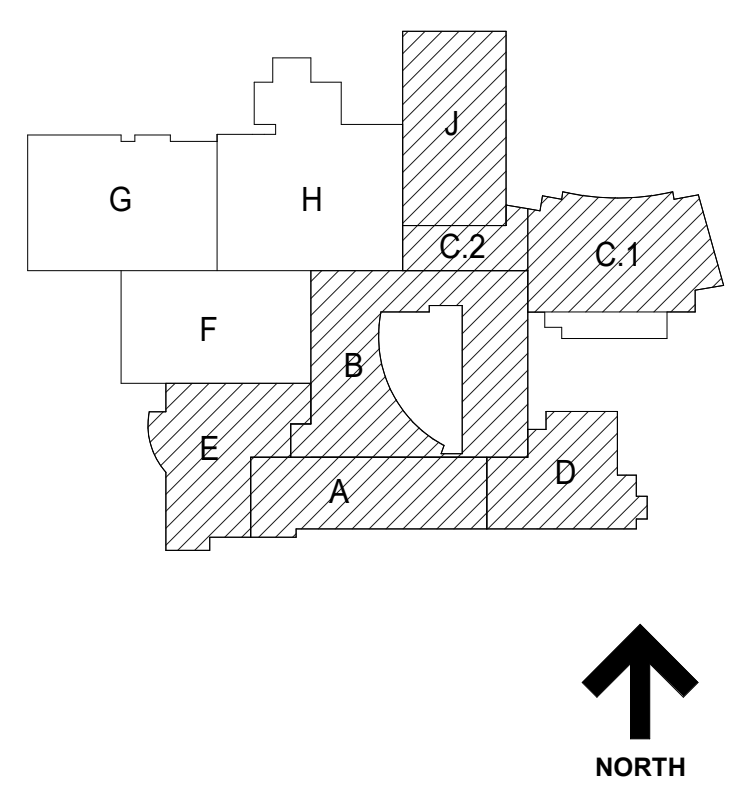


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36	ISSUED FOR ADDENDUM 2 - BGR	12.04.2019
C	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
34	ISSUED FOR 75% CONSTRUCTION DOCUMENTS - PHASE C	10.14.2019

MFP IMPLEMENTATION - SOUTH

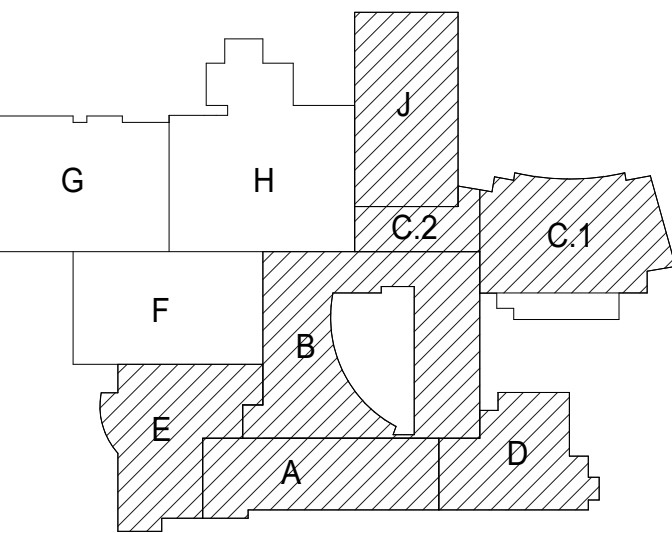
1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

INTERIOR ELEVATIONS & DETAILS - PHASE C

Project Number:
5274-42
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Sheet:

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34 ISSUED FOR 75% CONSTRUCTION 10.14.2019
DOCUMENTS - PHASE C
REV ISSUE DATE

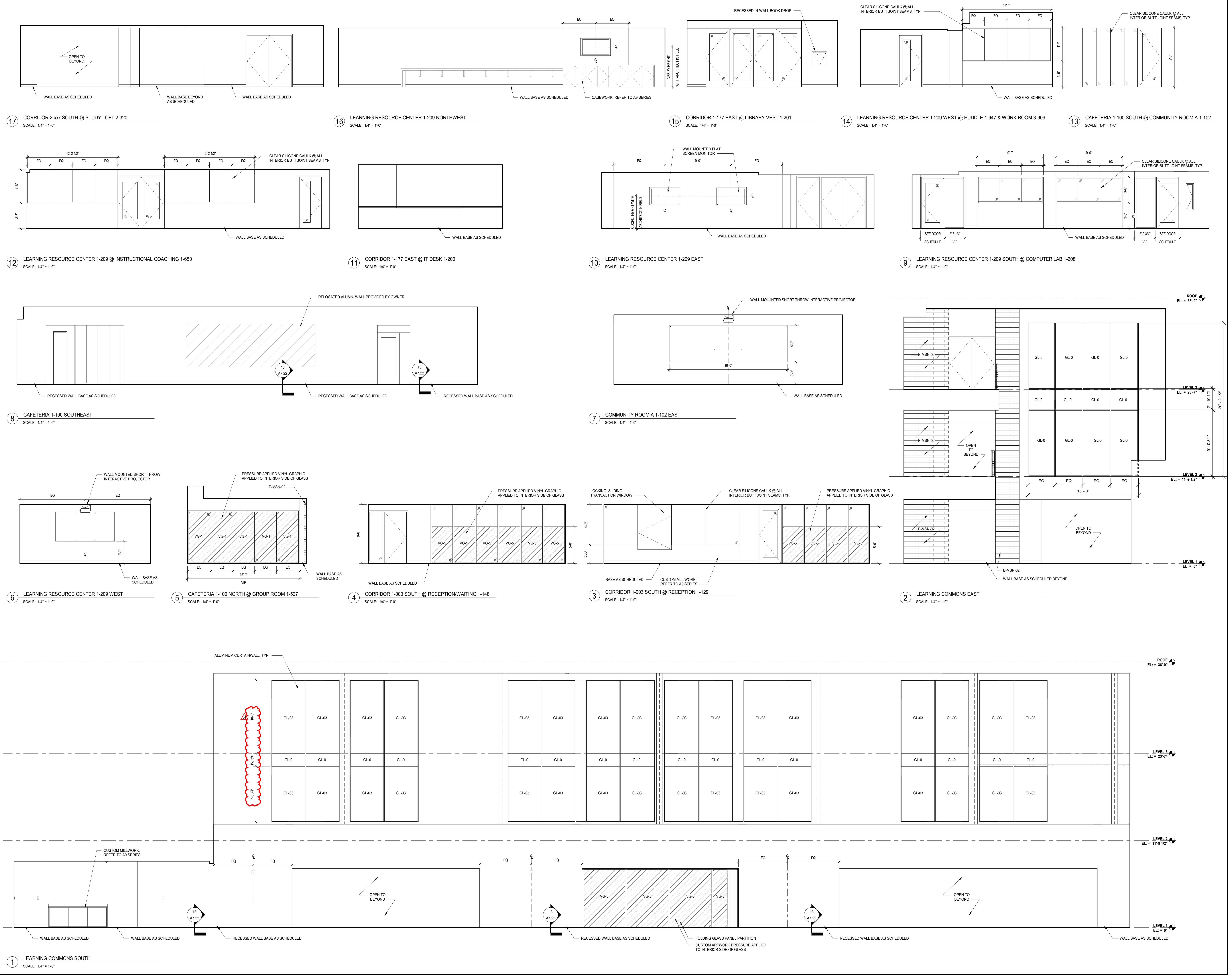
**MFP
IMPLEMENTATION -
SOUTH**

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

**INTERIOR ELEVATIONS &
DETAILS - PHASE C**

Project Number:
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36 ISSUED FOR ADDENDUM 2 - B68 12.04.2019
ISSUED FOR BID GROUP 8 - PHASE 11.20.2019
C

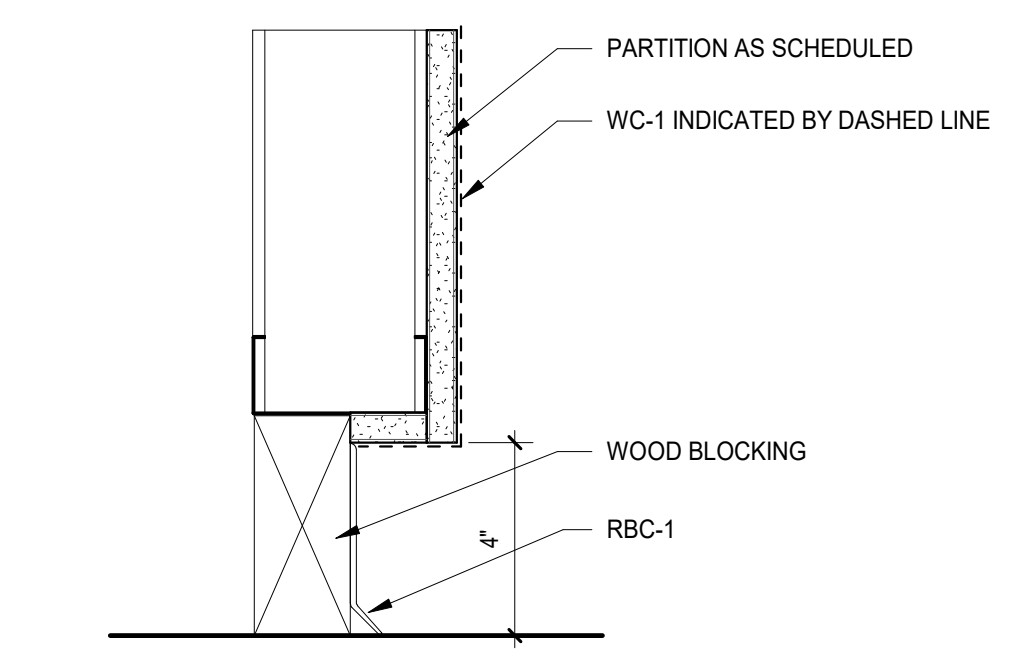
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**MFP
IMPLEMENTATION -
SOUTH**

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

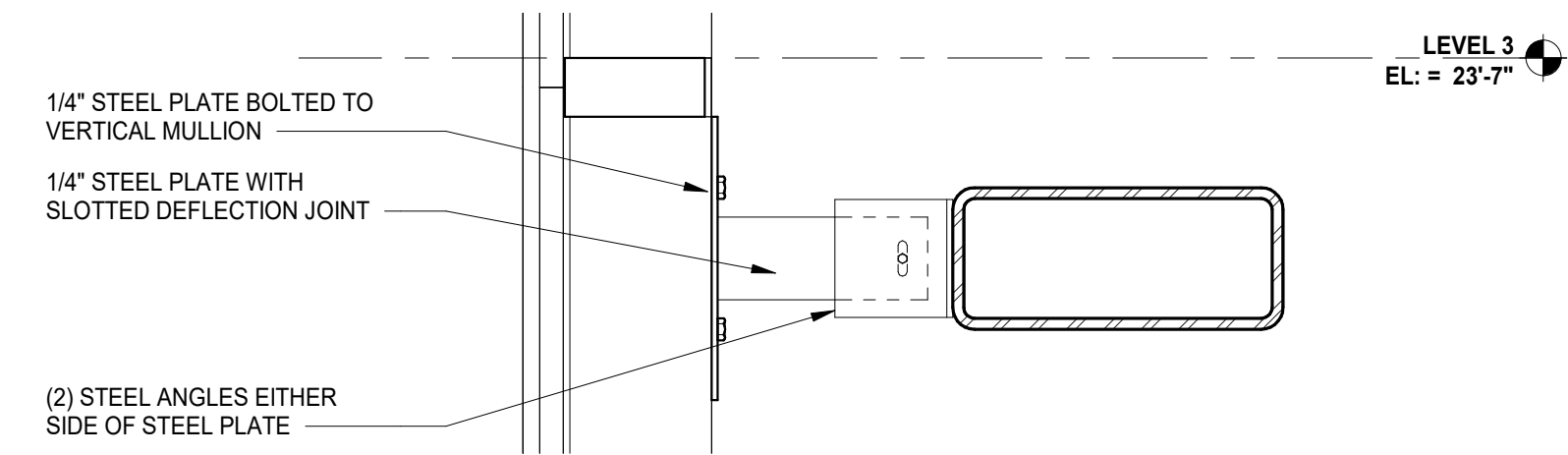
**INTERIOR WALL
SECTIONS & DETAILS -
PHASE C**

Project Number:
5274-42
Drawn By:
Author
Sheet

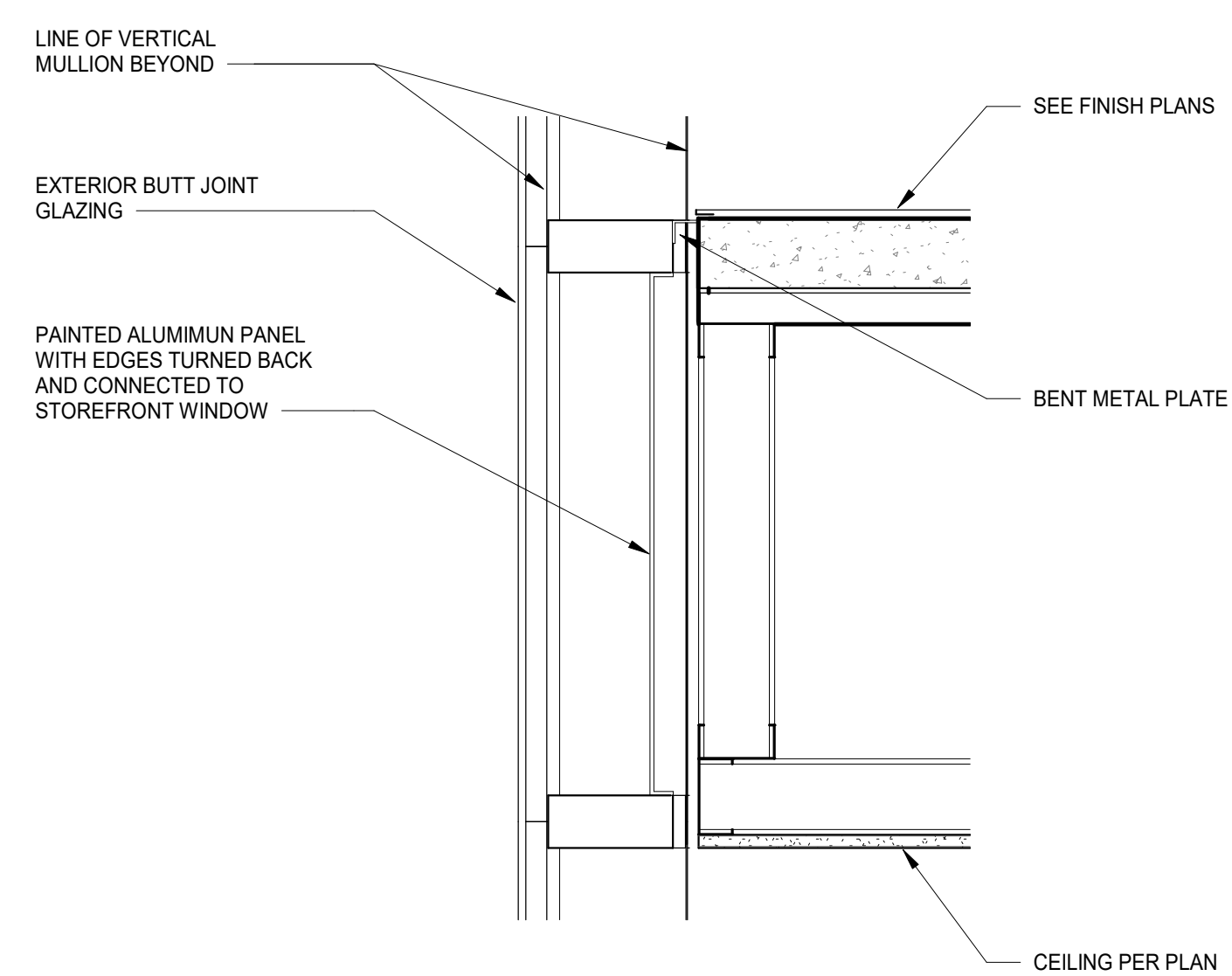
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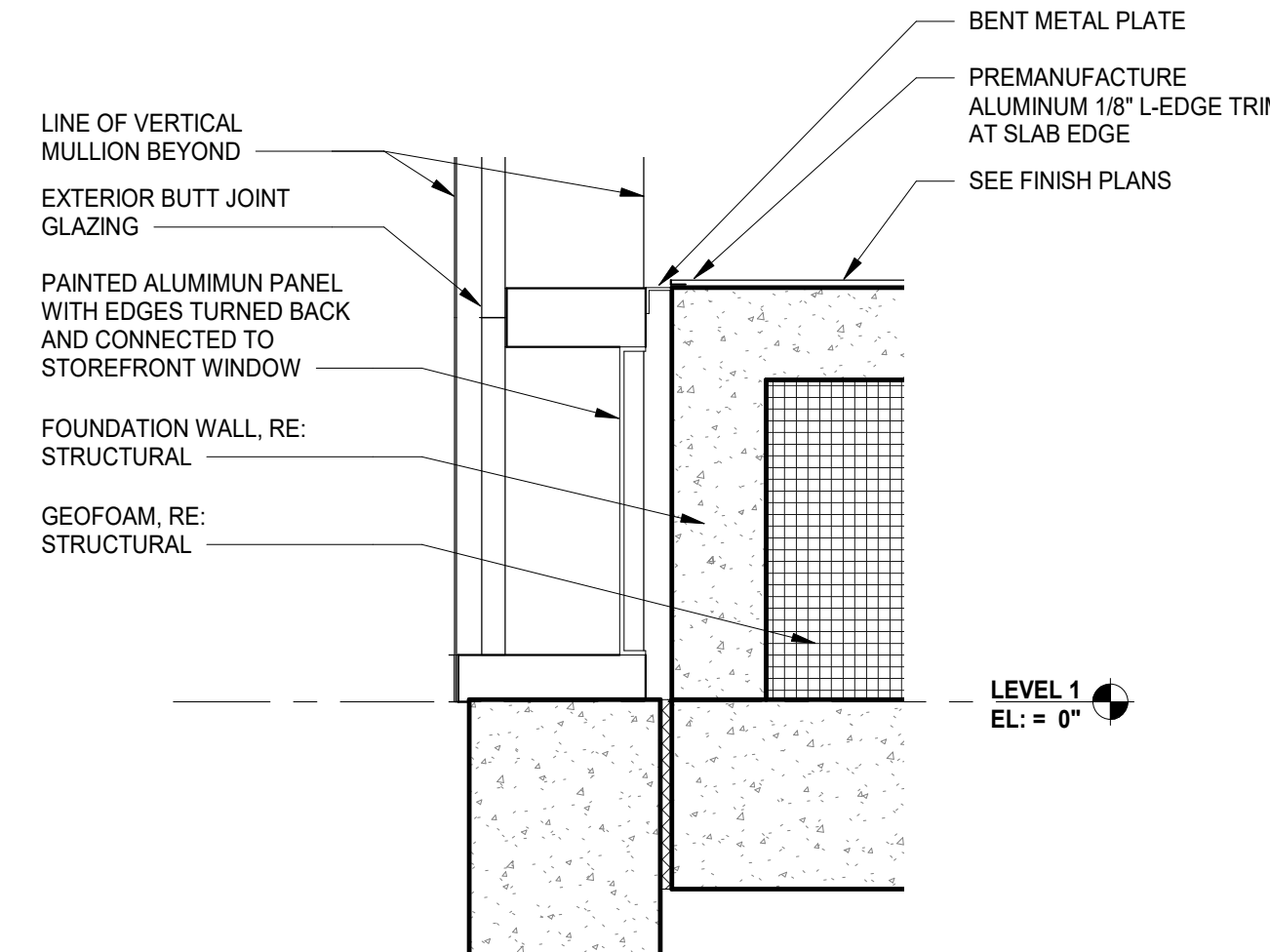
13 RECESSED WALL BASE
SCALE: 3" = 1'-0"



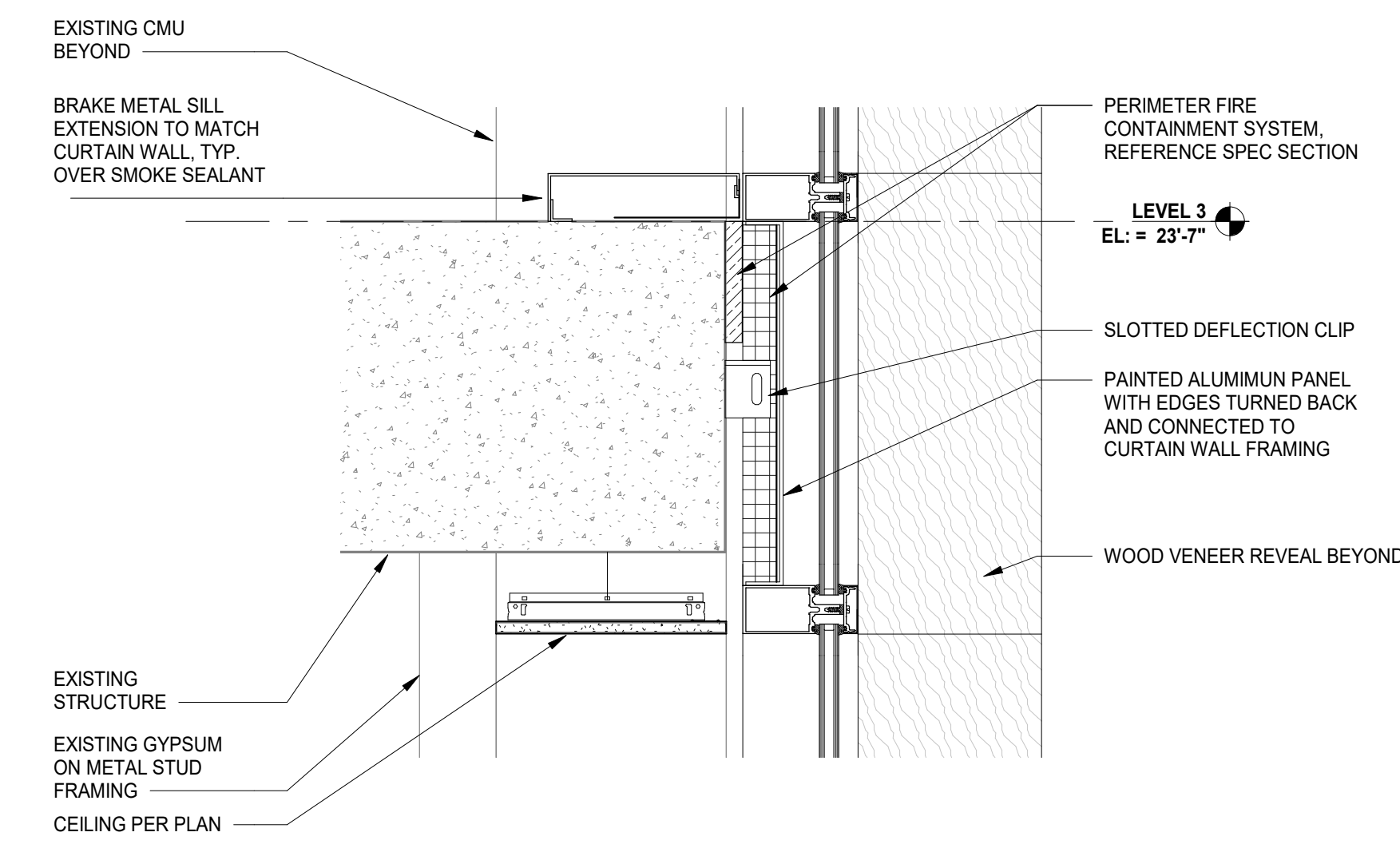
12 SECTION DETAIL - CURTAIN WALL BRACING @ LEVEL 3
SCALE: 1 1/2" = 1'-0"



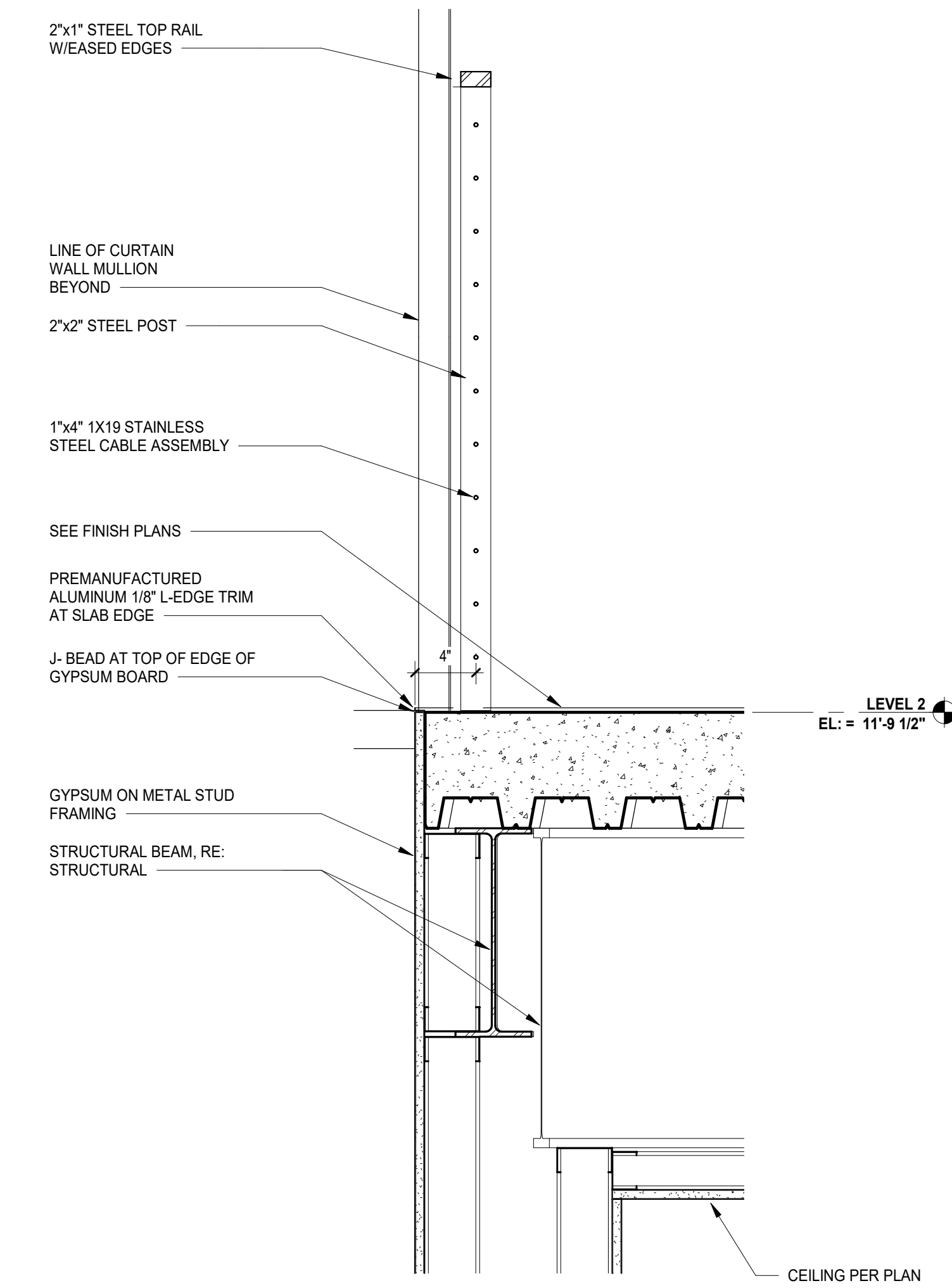
11 SECTION DETAIL - COMMONS 3RD PLATFORM AT CURTAIN WALL
SCALE: 1 1/2" = 1'-0"



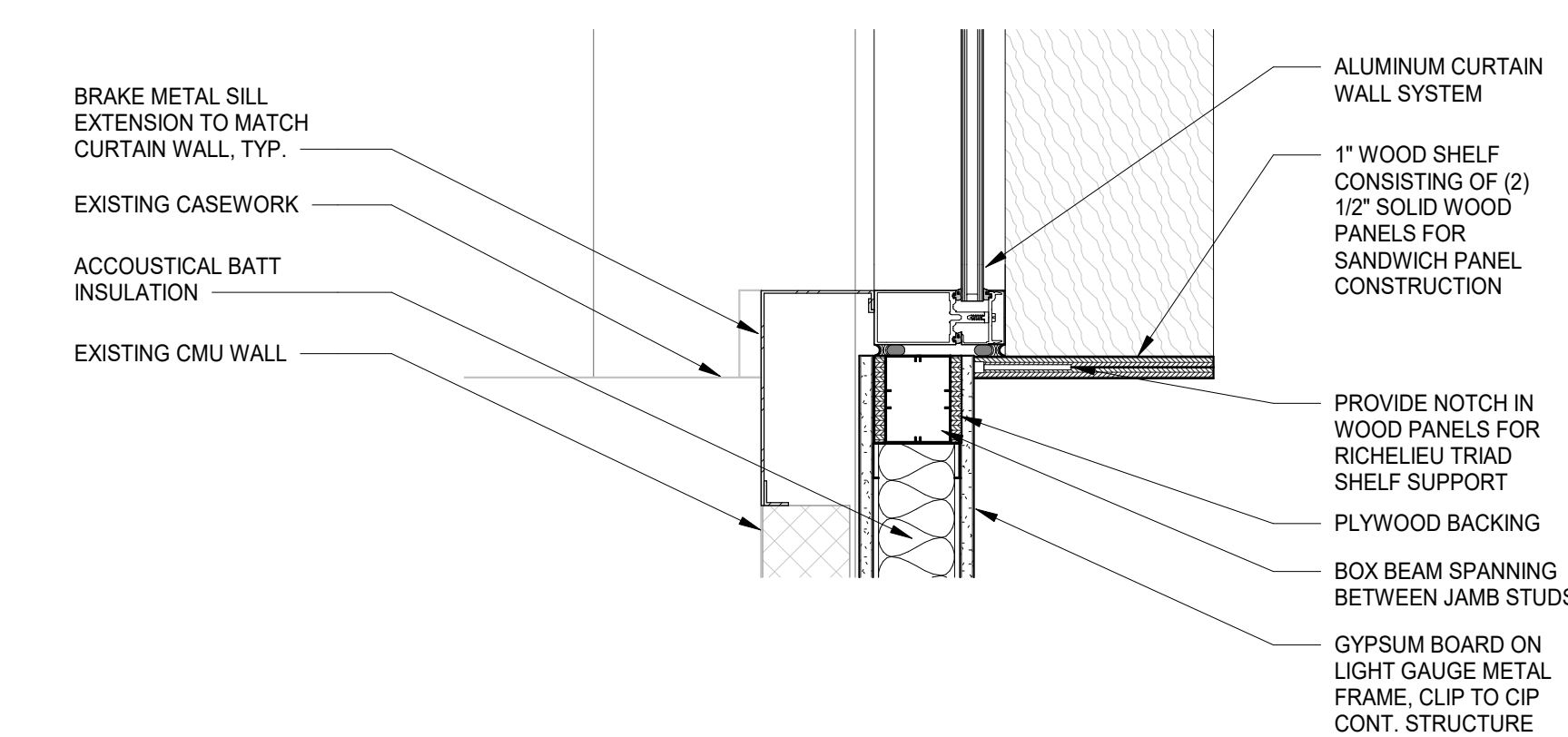
9 SECTION DETAIL - COMMONS 1ST PLATFORM AT CURTAIN WALL
SCALE: 1 1/2" = 1'-0"



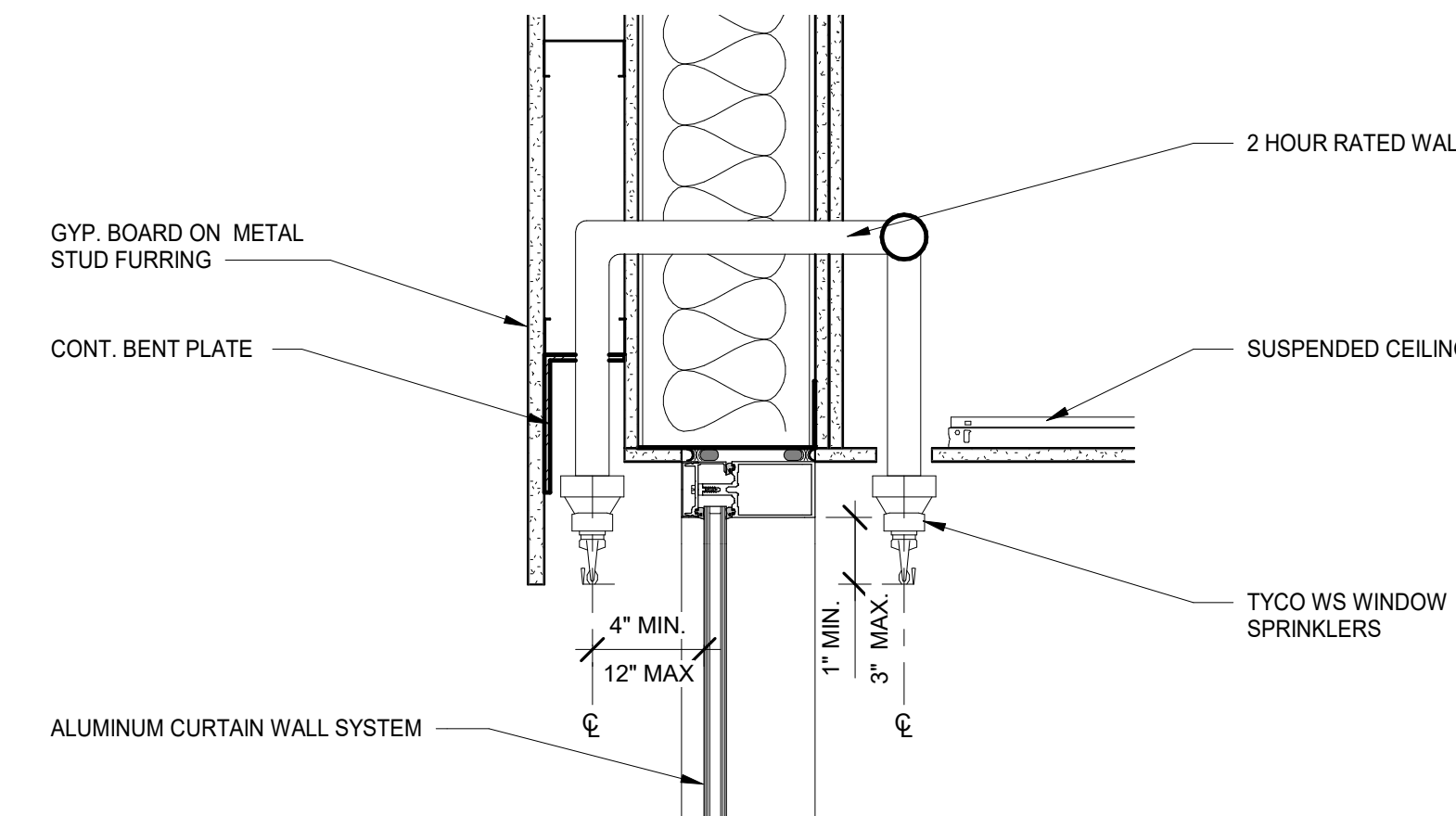
6 SECTION DETAIL - JOINT FIRESTOP SYSTEM @ COMMONS - UL CW-D-1014
SCALE: 1 1/2" = 1'-0"



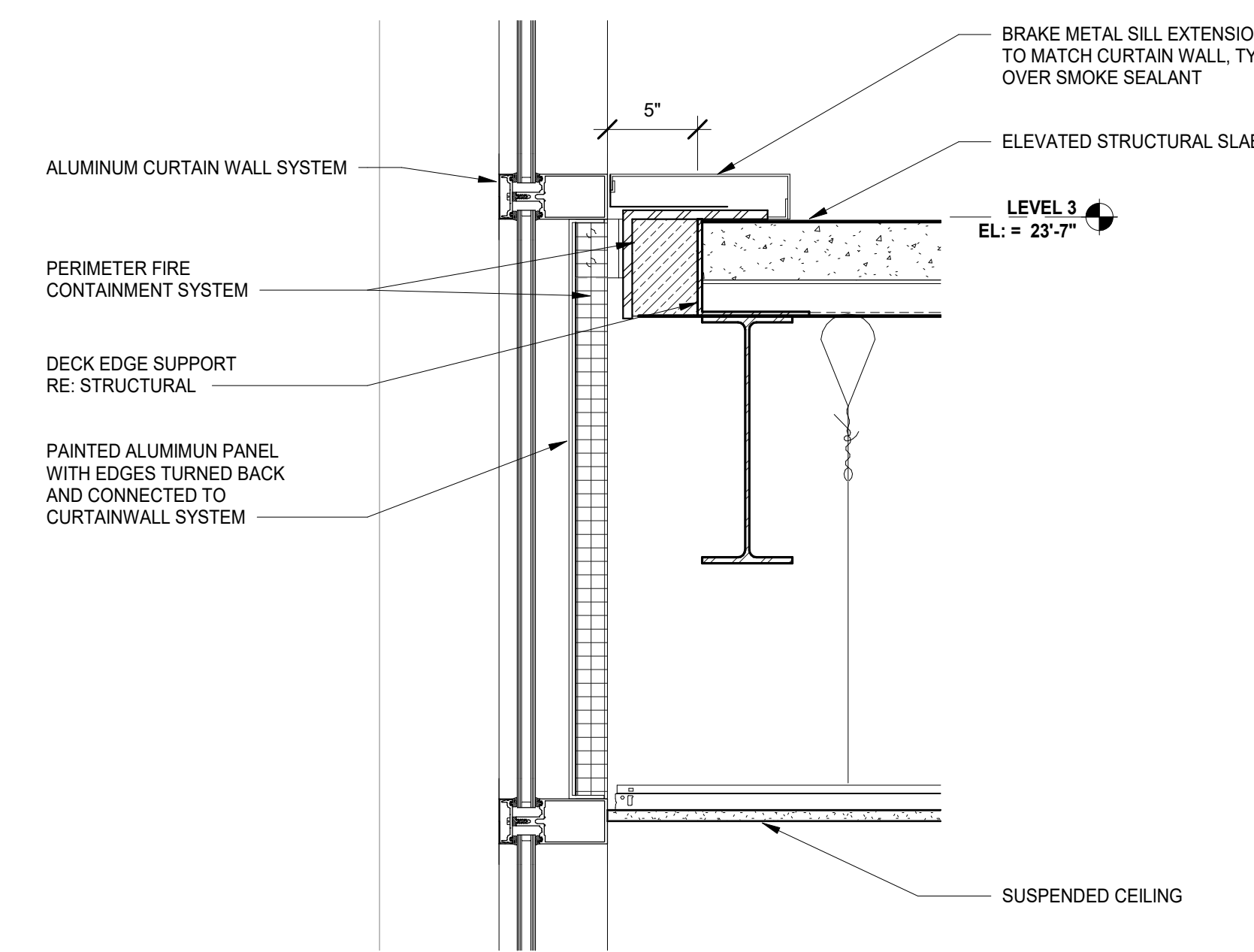
2 SECTION DETAIL - GUARDRAIL @ COMMONS 2ND FLOOR PLATFORM
SCALE: 1 1/2" = 1'-0"



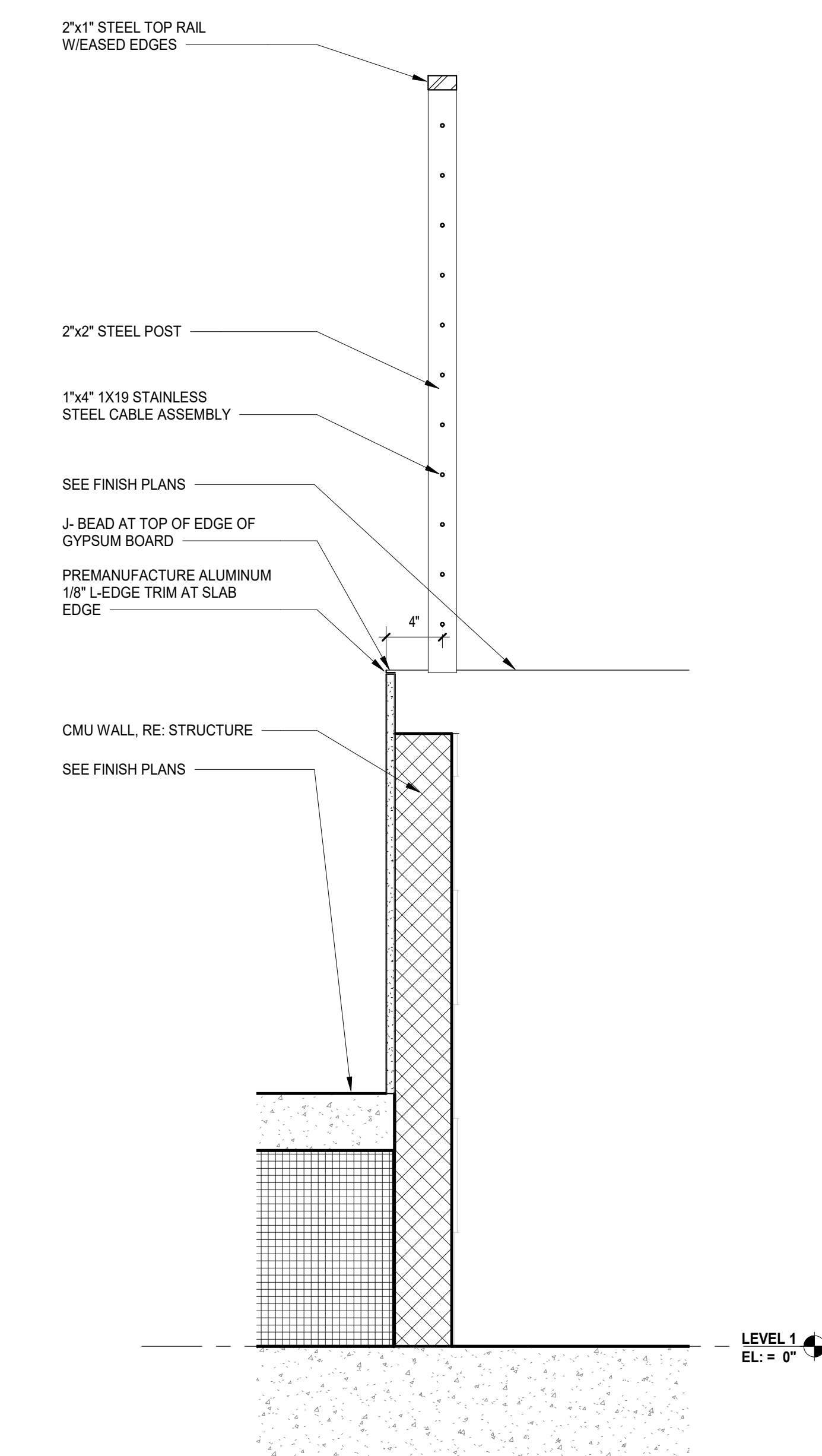
8 SECTION DETAIL - LEARNING COMMONS WINDOW SILL
SCALE: 1 1/2" = 1'-0"



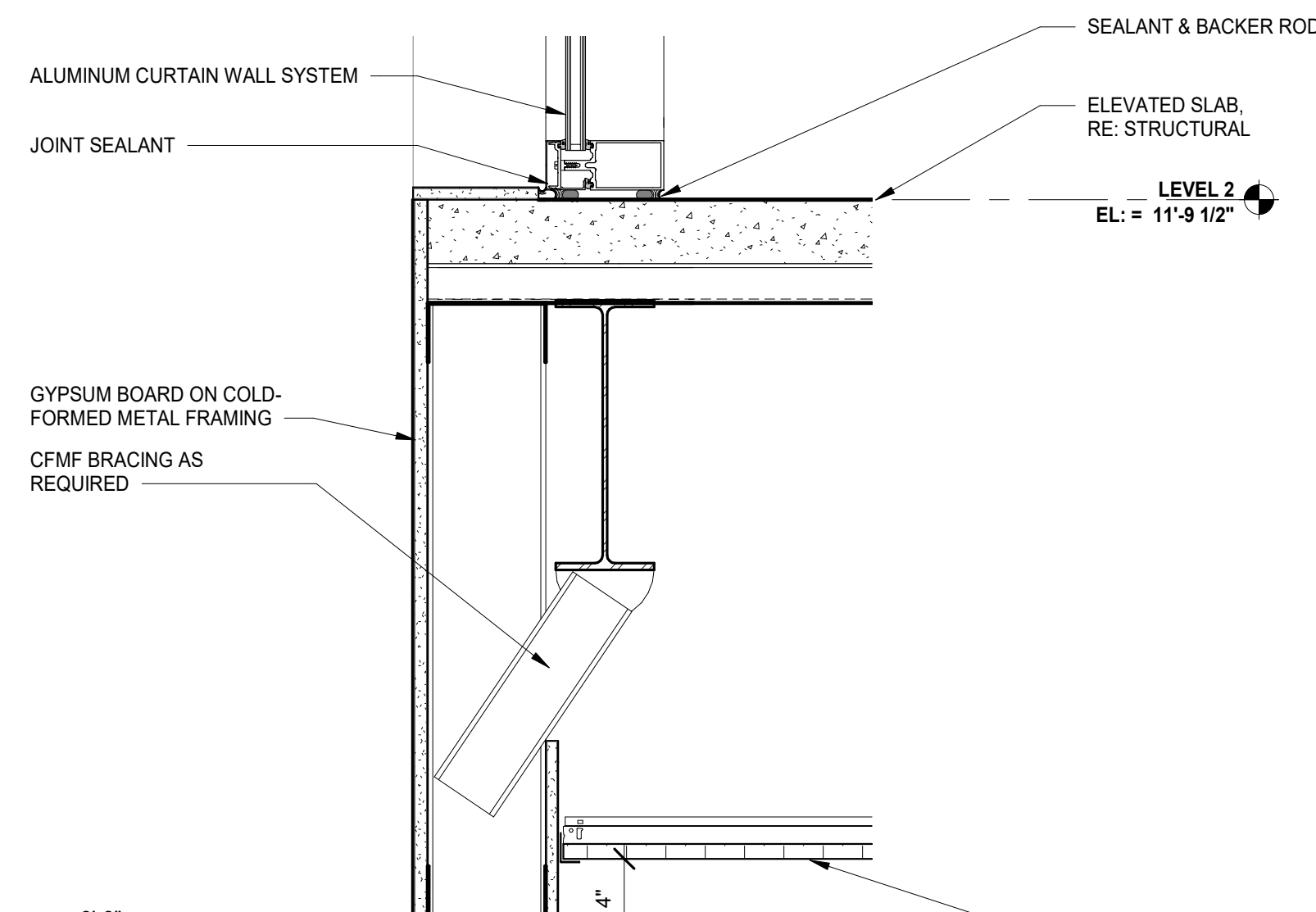
5 SECTION DETAIL - STUDY LOFT WINDOW HEADER
SCALE: 1 1/2" = 1'-0"



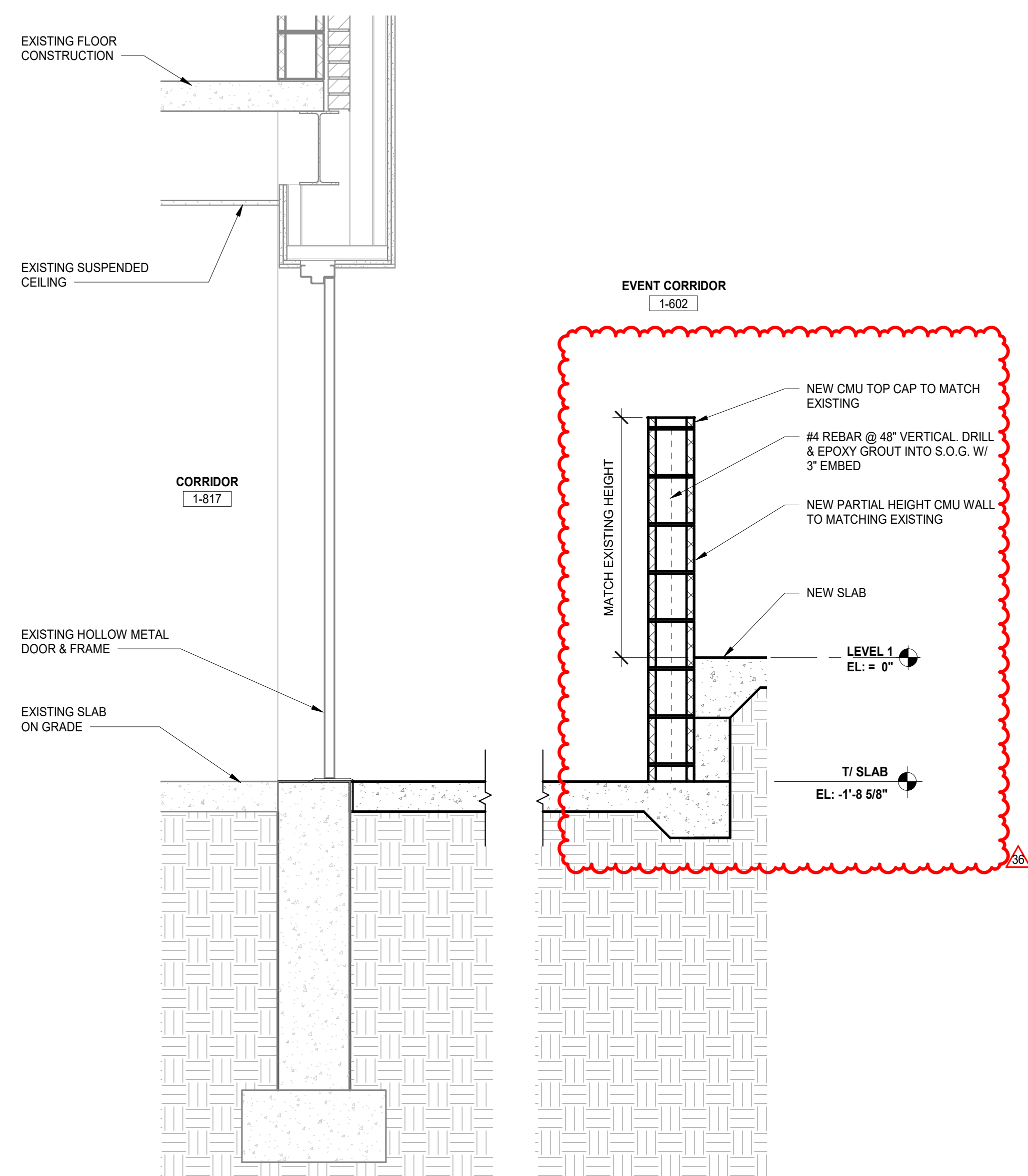
4 SECTION DETAIL - JOINT FIRESTOP SYSTEM @ STUDY LOFTS UL CW-D-1014
SCALE: 1 1/2" = 1'-0"



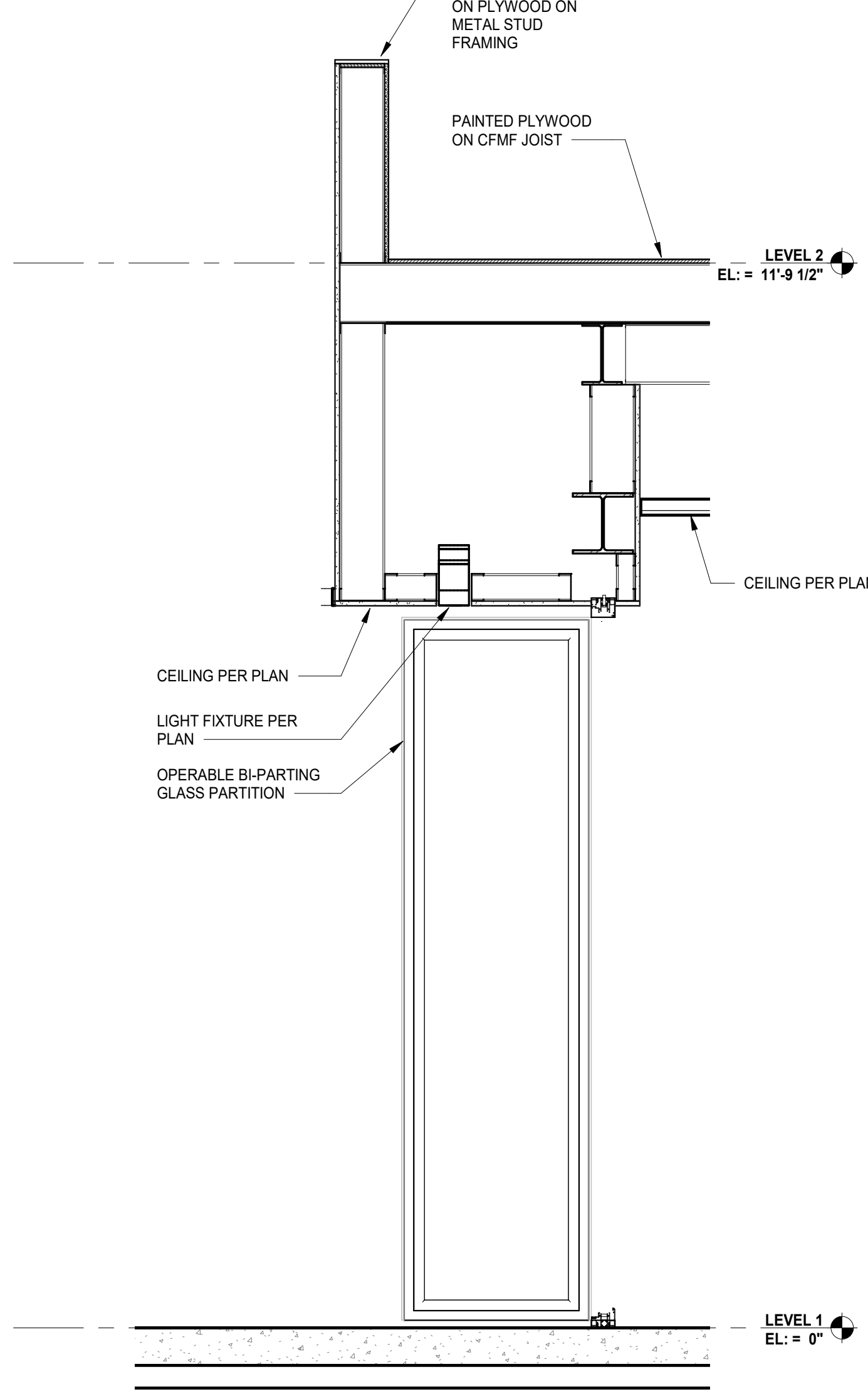
1 SECTION DETAIL - GUARDRAIL @ COMMONS 1ST FLOOR PLATFORM
SCALE: 1 1/2" = 1'-0"



3 SECTION DETAIL - CURTAIN WALL SILL @ STUDY LOFTS
SCALE: 1 1/2" = 1'-0"



10 INTERIOR SECTION - NEW PARTIAL HEIGHT WALL @ EVENT LOBBY
SCALE: 3/4" = 1'-0"



7 INTERIOR SECTION - ADMINISTRATION OPERABLE PARTITION
SCALE: 3/4" = 1'-0"

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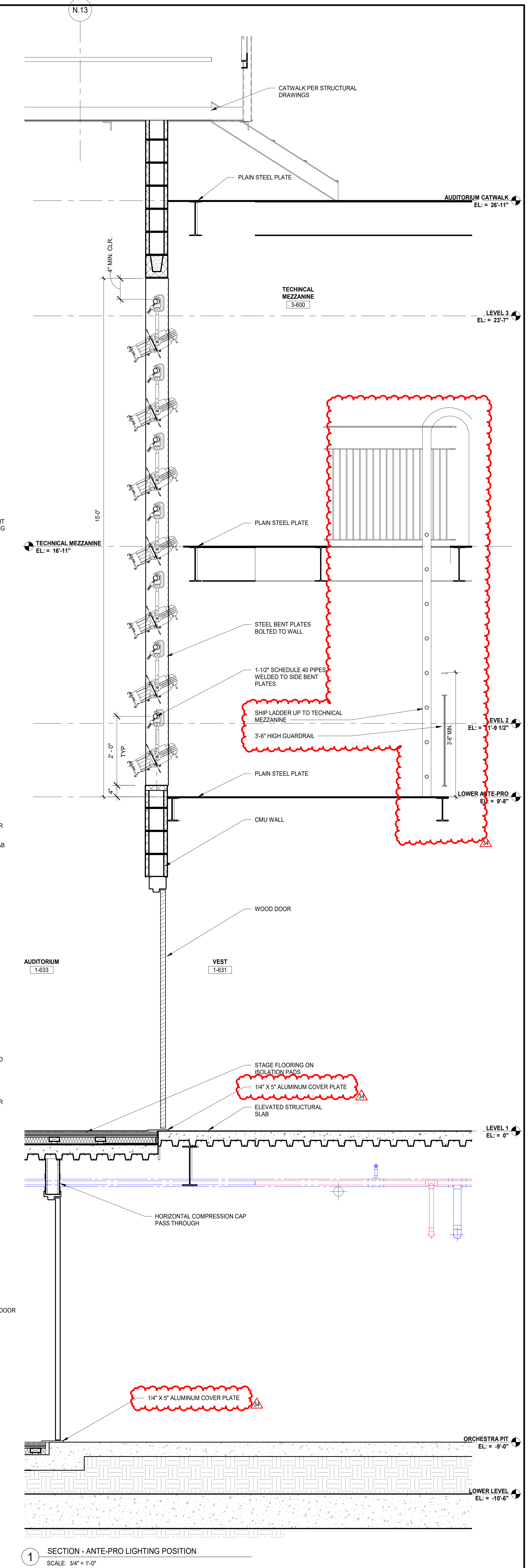
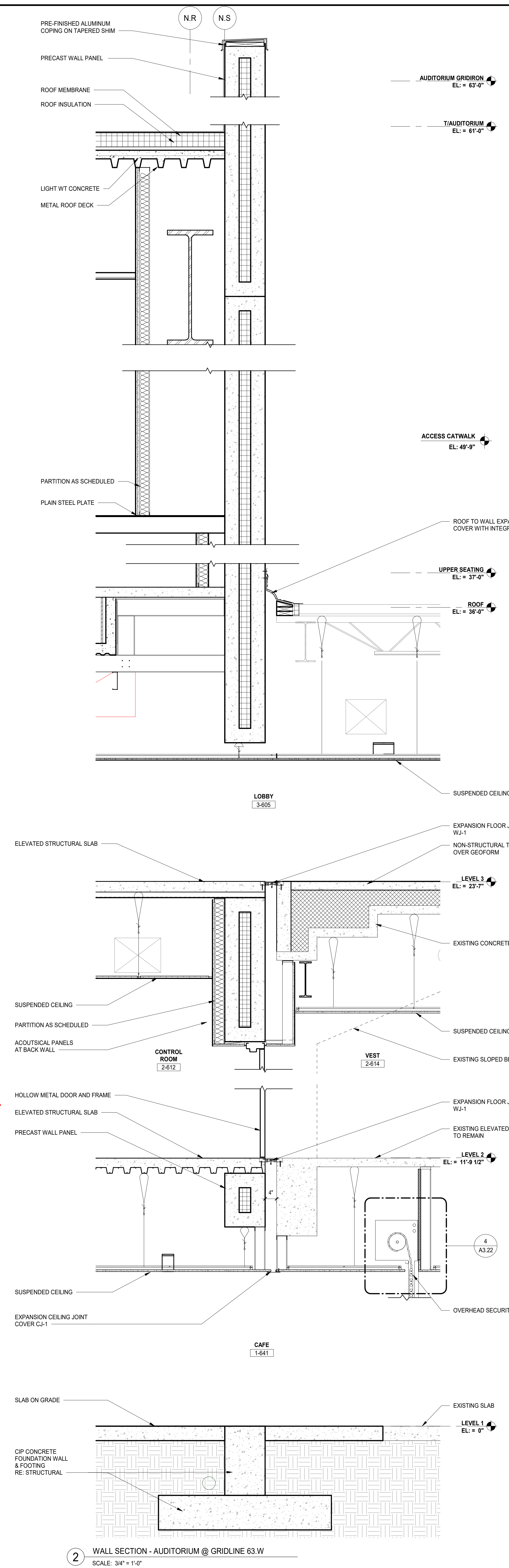
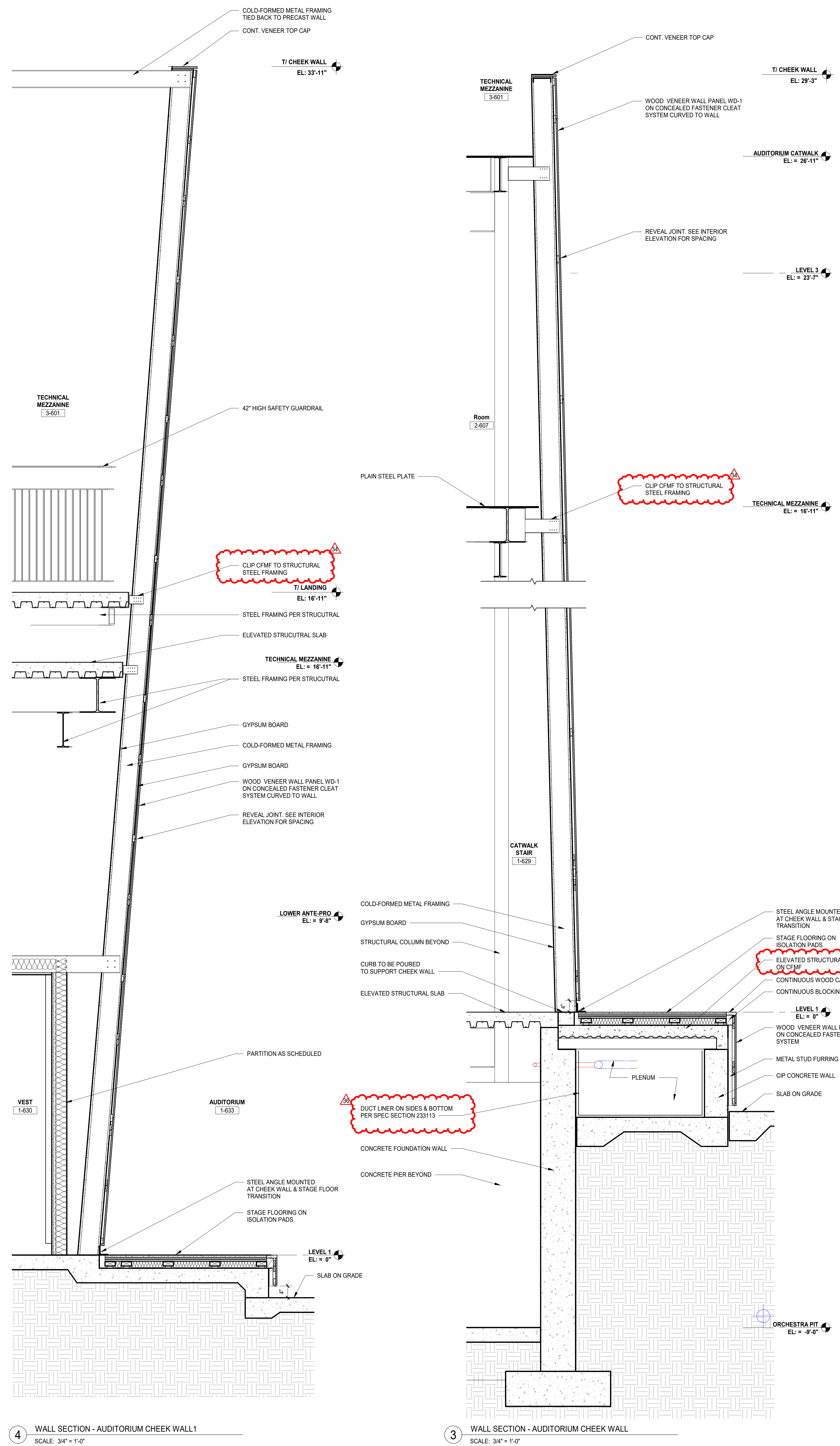
36	ISSUED FOR ADDENDUM 2 - BGR	12.04.2019
C	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
34	ISSUED FOR 75% CONSTRUCTION DOCUMENTS - PHASE C	10.14.2019
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**MFP
IMPLEMENTATION -
SOUTH**

1436 NORFOLK STREET
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**AUDITORIUM SECTIONS &
DETAILS - PHASE C**

Project Number:
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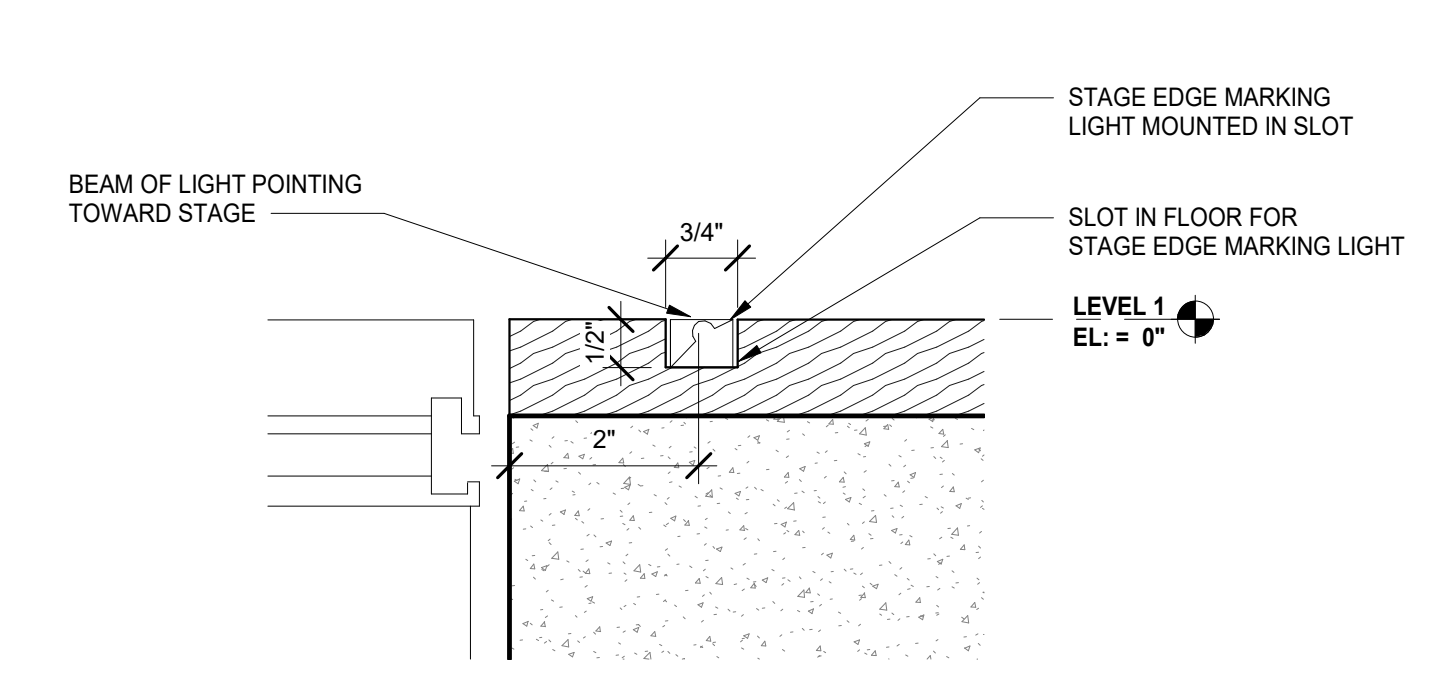
4 WALL SECTION - AUDITORIUM CHEEK WALL 1
SCALE: 3/4" = 1'-0"

3 WALL SECTION - AUDITORIUM CHEEK WALL
SCALE: 3/4" = 1'-0"

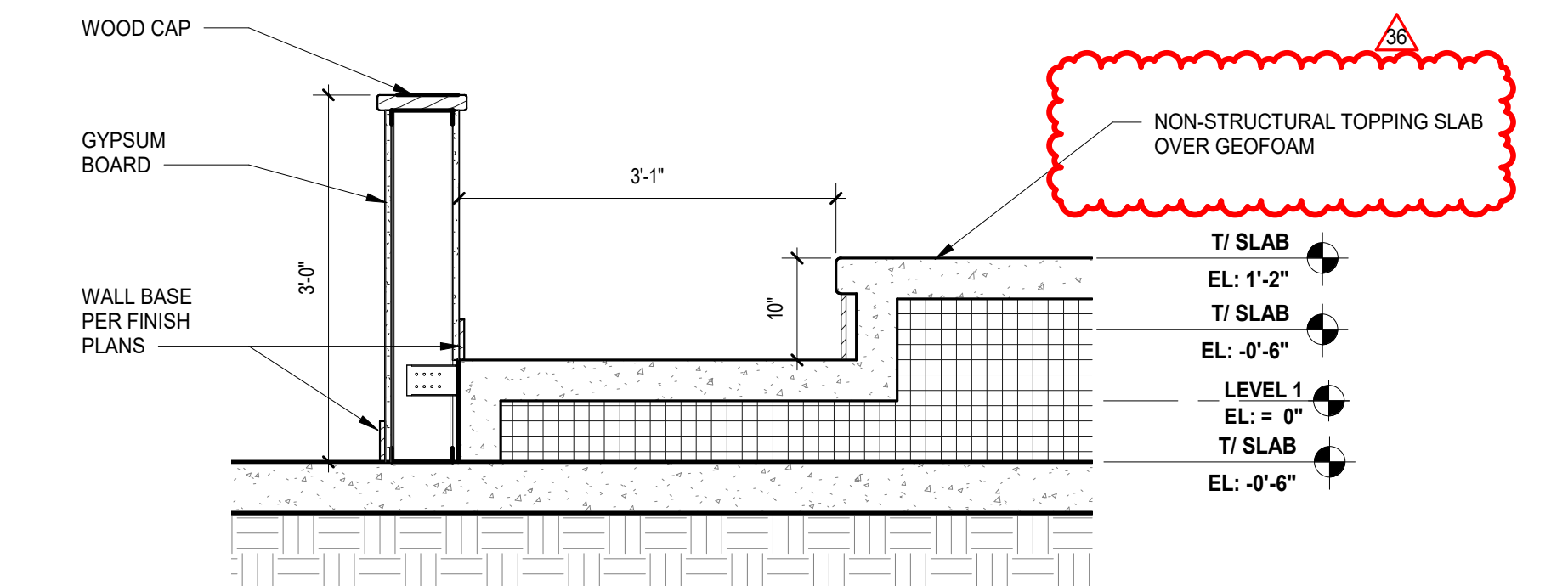
2 WALL SECTION - AUDITORIUM @ GRIDLINE 63.W
SCALE: 3/4" = 1'-0"

1 SECTION - ANTE-PRO LIGHTING POSITION
SCALE: 3/4" = 1'-0"

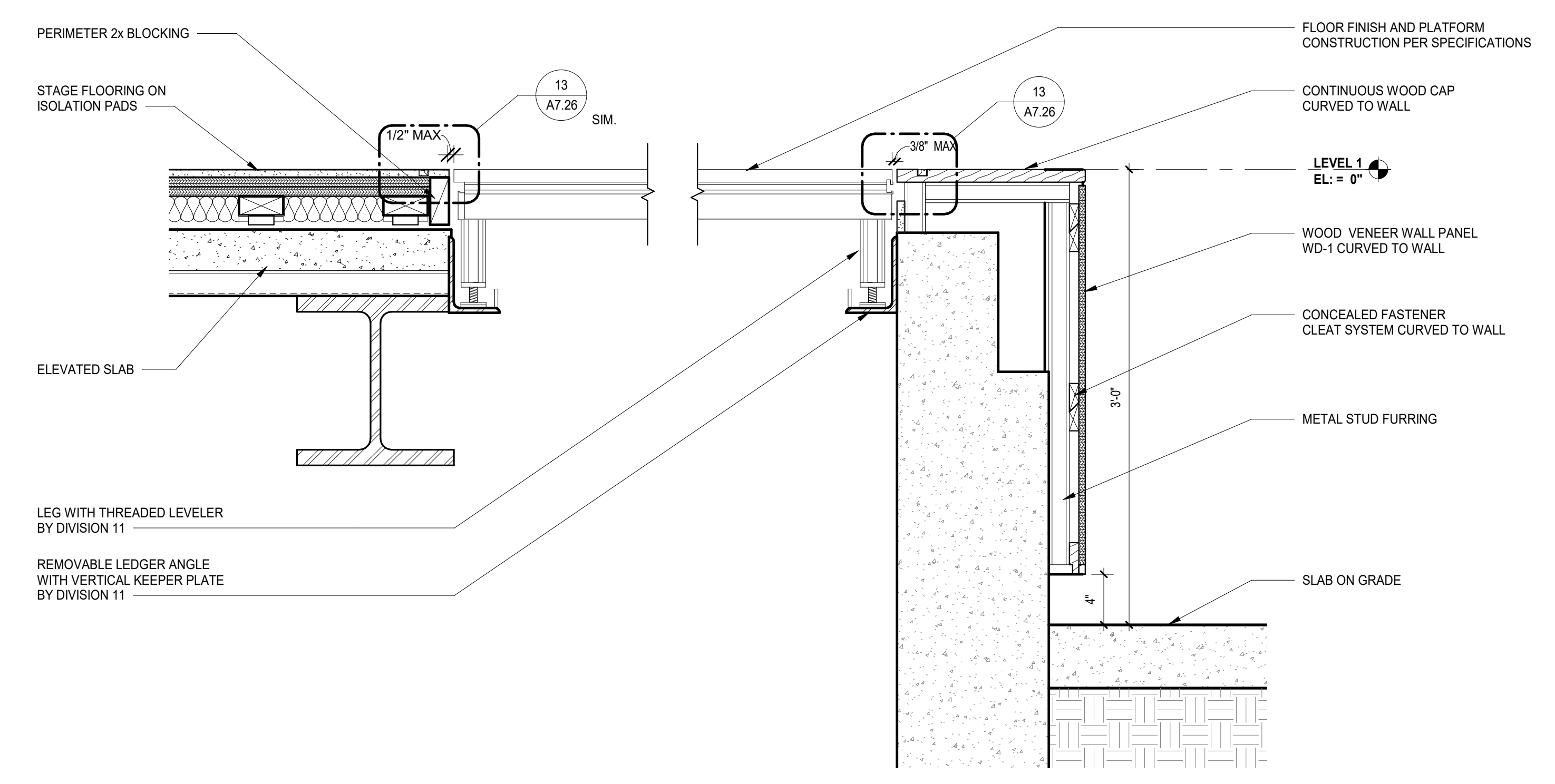
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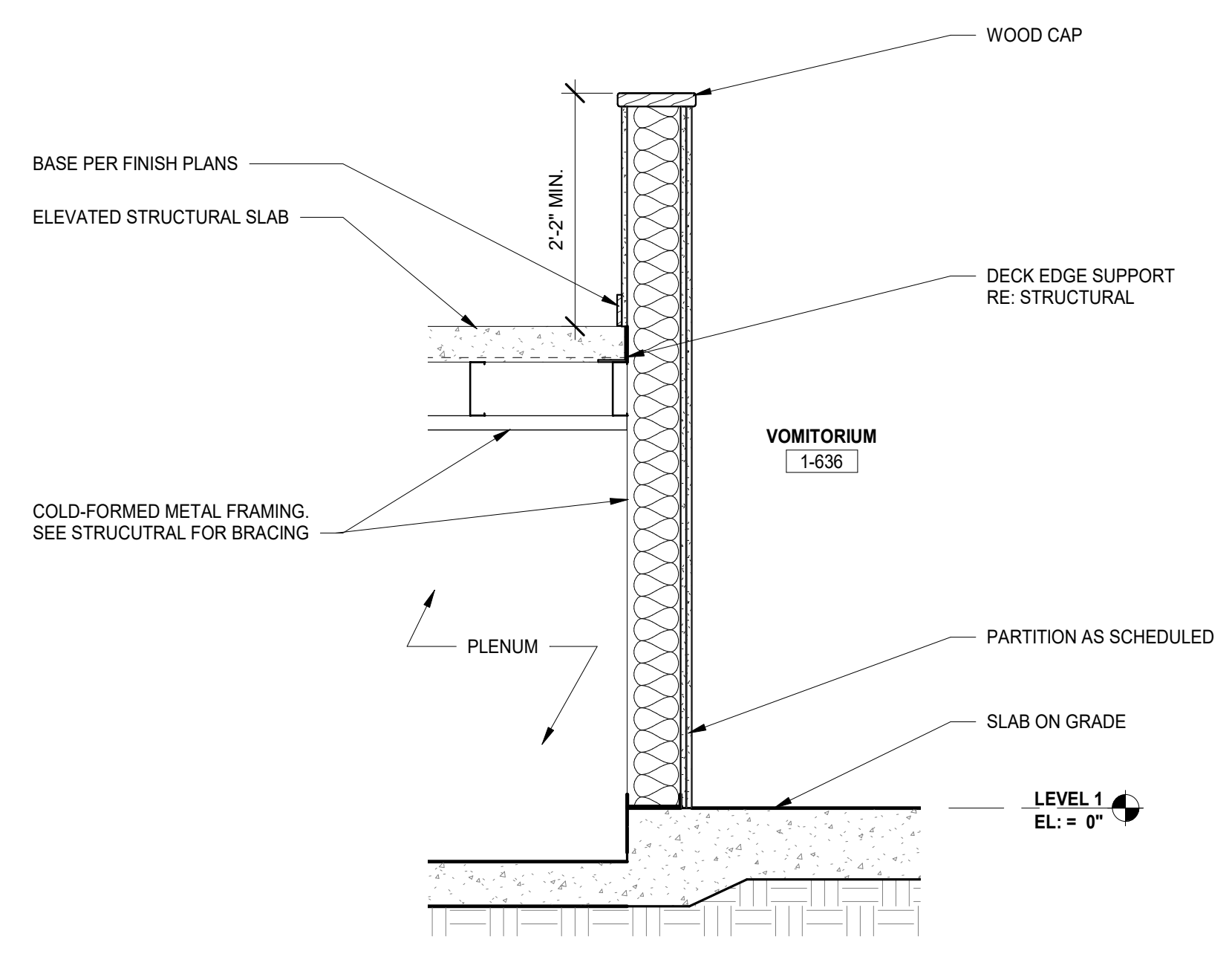
13 SECTION DETAIL - ORCHESTRA PIT UPSTAGE/DOWNSTAGE EDGE LIGHT
SCALE: 1" = 1'-0"



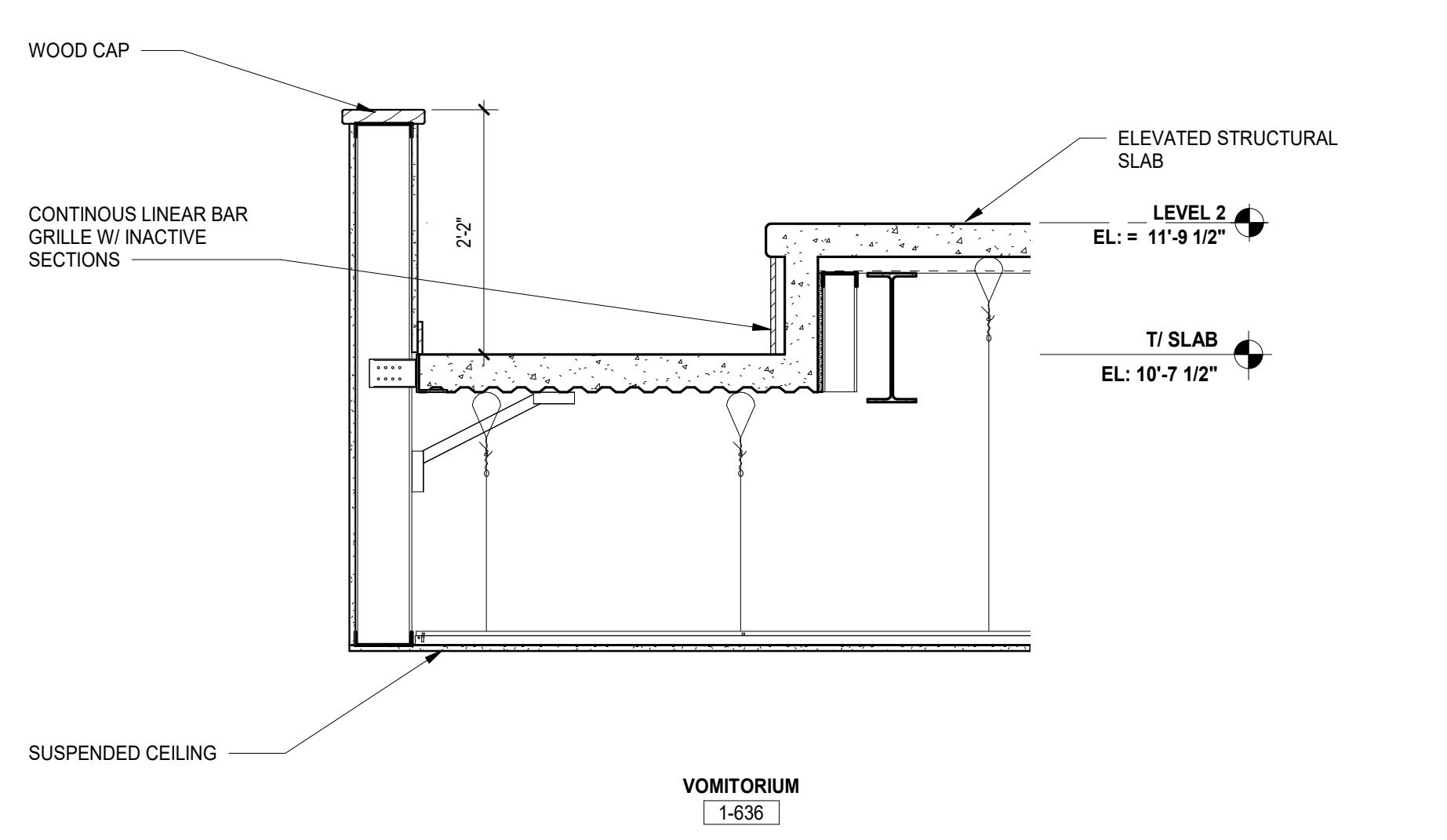
8 SECTION DETAIL - PARTERRE FRONT WALL
SCALE: 3/4" = 1'-0"



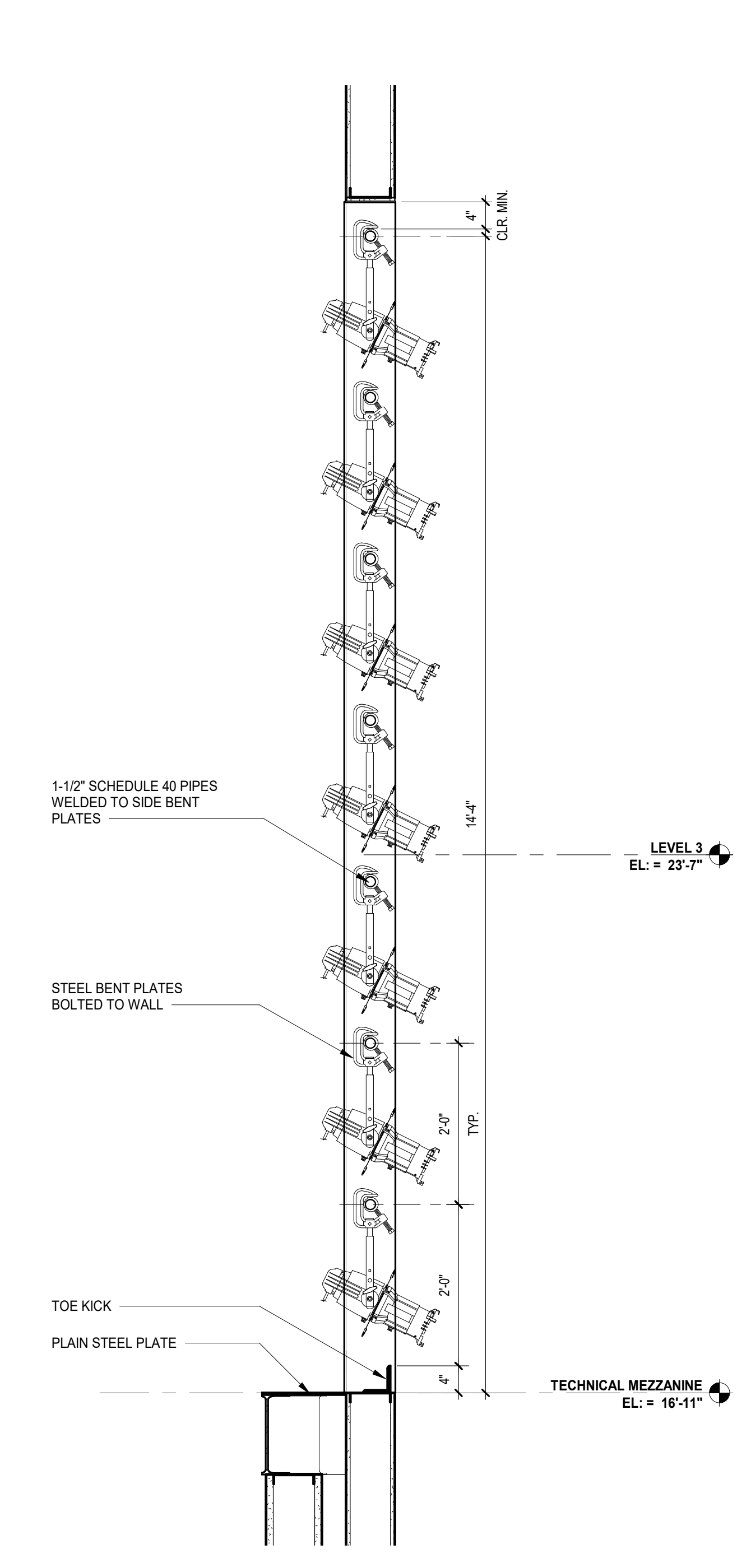
1 SECTION DETAIL - ORCHESTRA PIT UPSTAGE/DOWNSTAGE EDGE
SCALE: 1 1/2" = 1'-0"



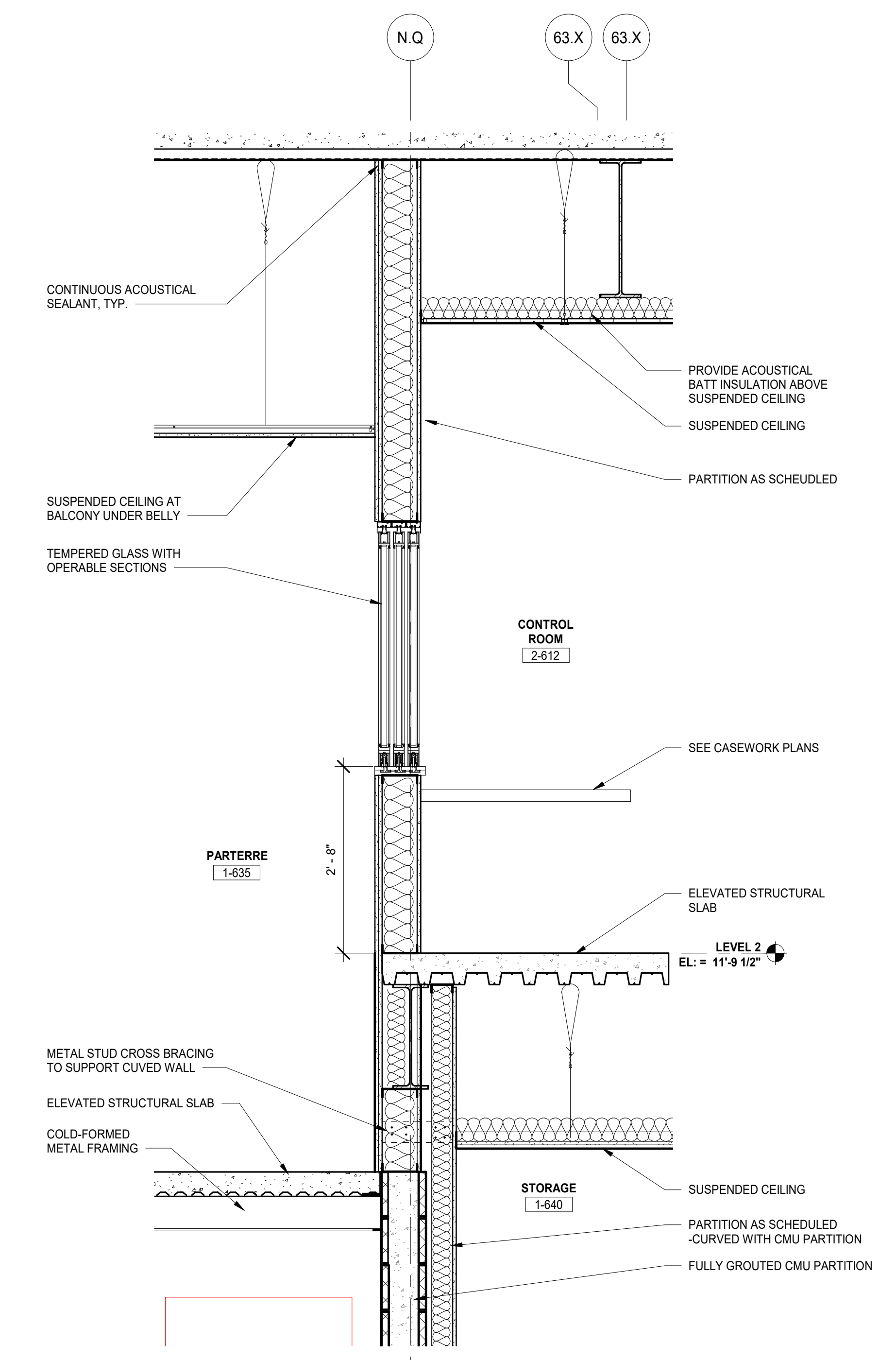
3 SECTION DETAIL - PARTERRE/VOMITORIUM SIDE WALL
SCALE: 3/4" = 1'-0"



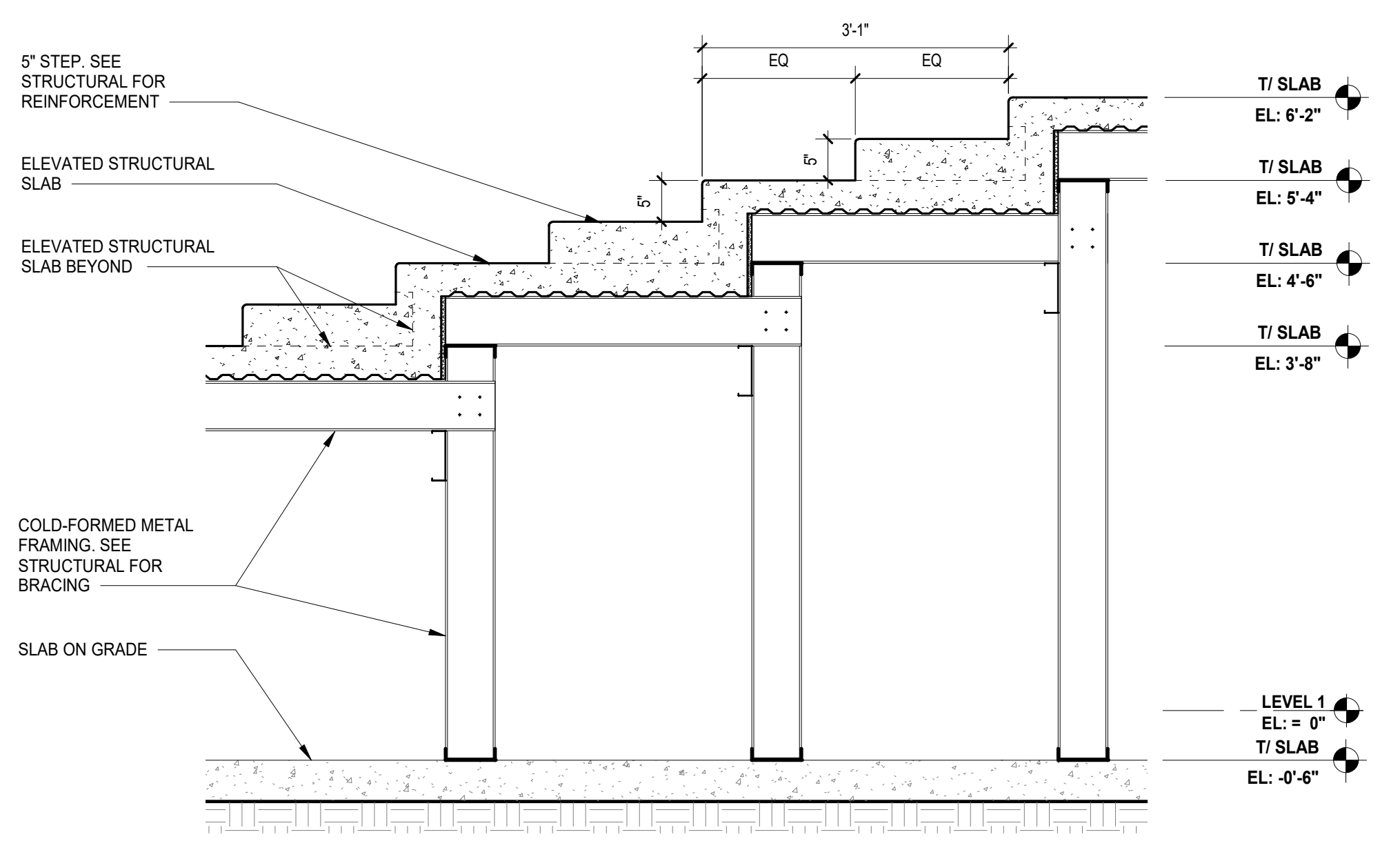
2 SECTION DETAIL - UPPER PARTERRE/VOMITORIUM GUARDRAIL
SCALE: 3/4" = 1'-0"



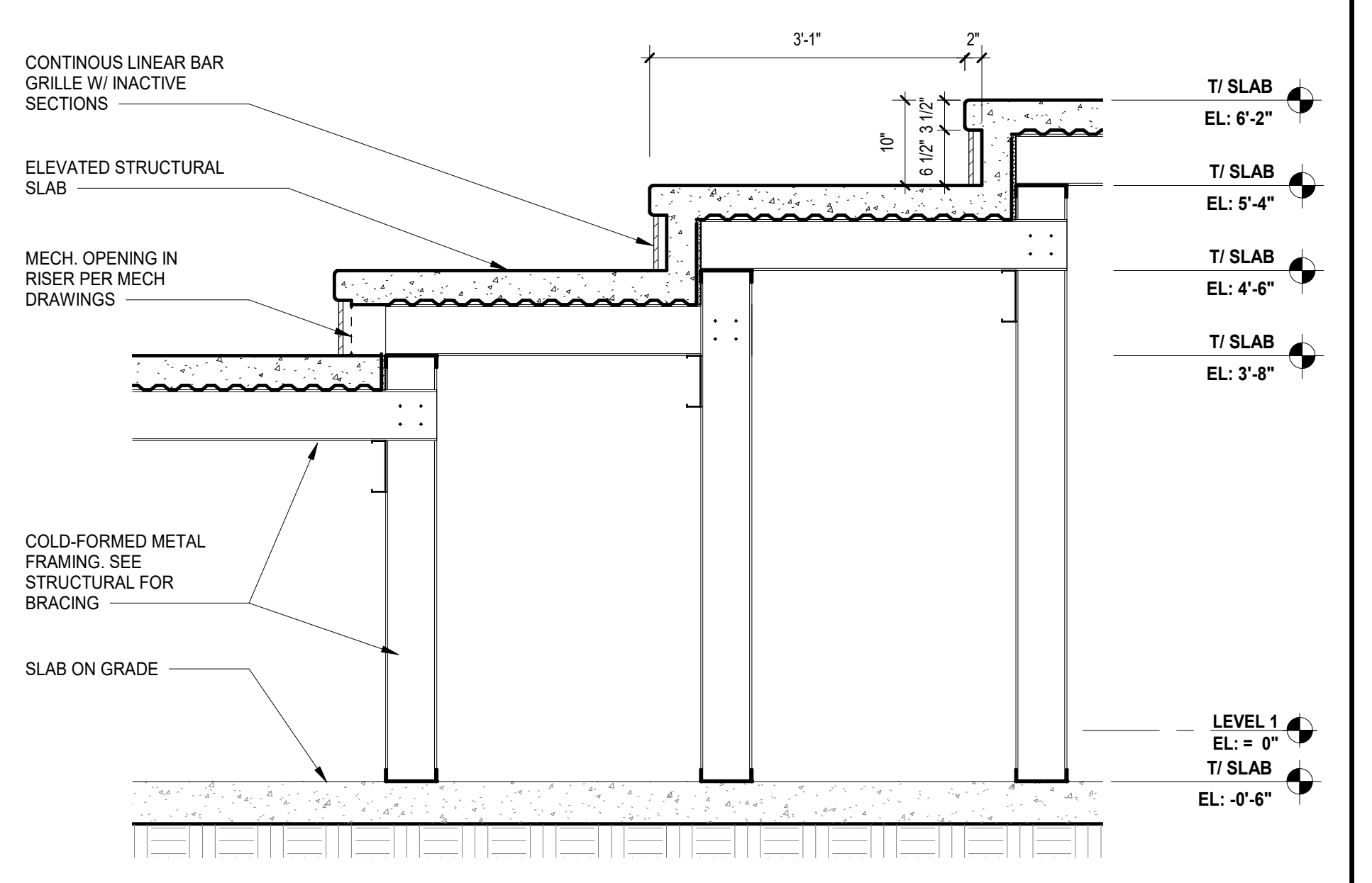
7 SECTION DETAIL - BOX BEAM POSITION
SCALE: 3/4" = 1'-0"



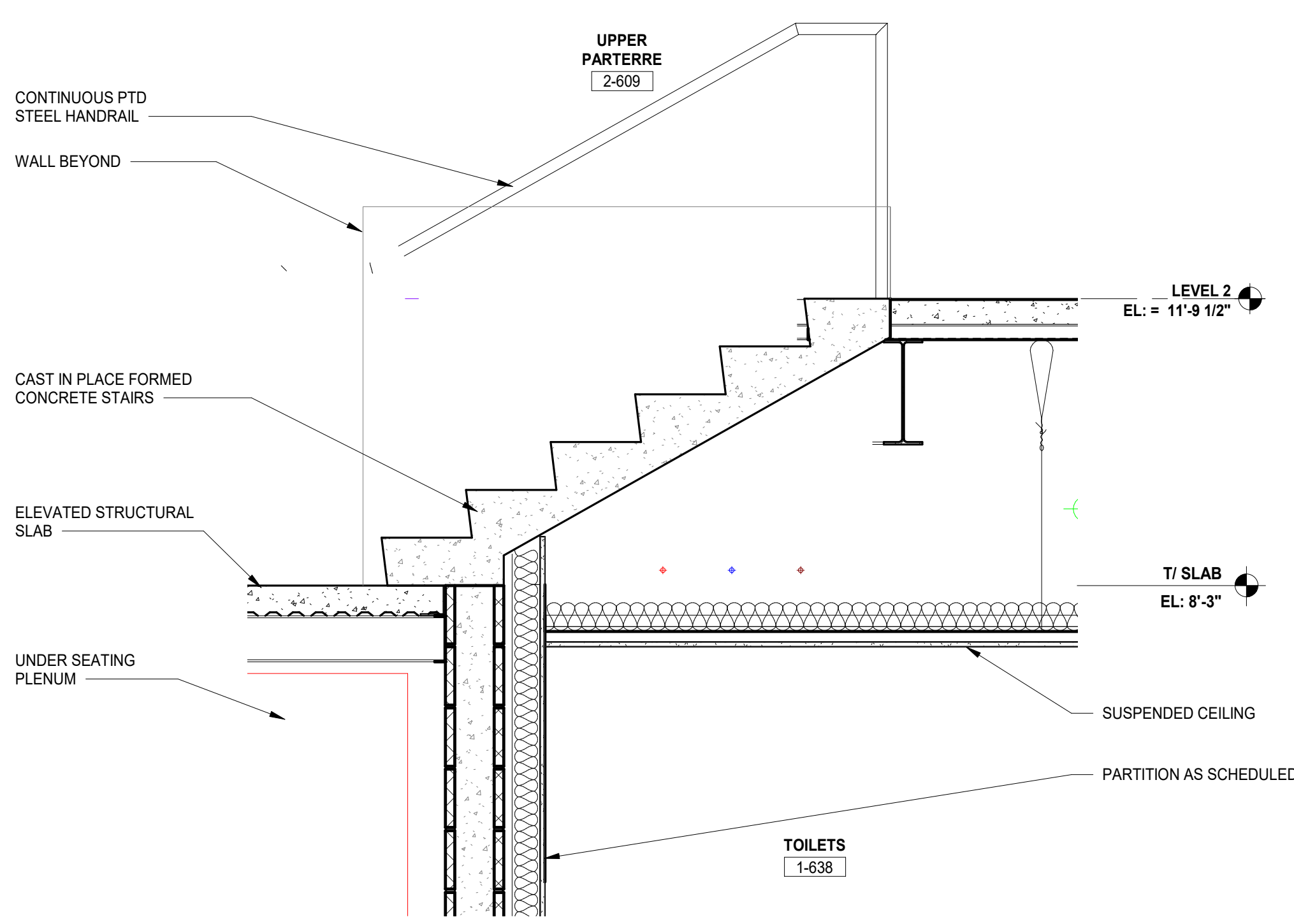
6 SECTION DETAIL - CONTROL ROOM WEST WALL
SCALE: 3/4" = 1'-0"



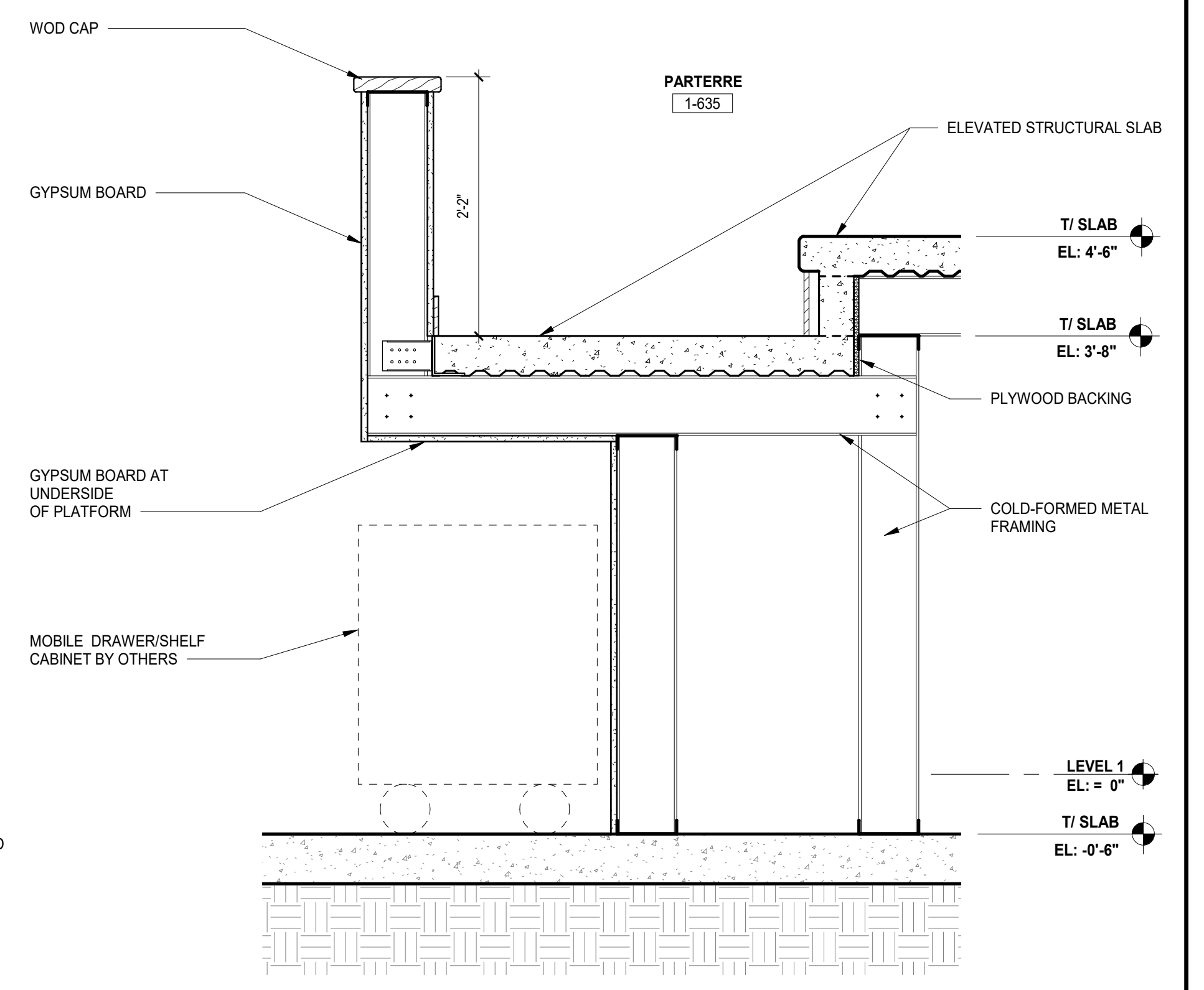
10 SECTION DETAIL - PARTERRE STEPS
SCALE: 3/4" = 1'-0"



11 SECTION DETAIL - PARTERRE SEATING
SCALE: 3/4" = 1'-0"



5 SECTION DETAIL - UPPER PARTERRE STEPS
SCALE: 3/4" = 1'-0"



9 SECTION DETAIL - IN-HOUSE MIXING POSITION
SCALE: 1" = 1'-0"

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	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
34	ISSUED FOR 75% CONSTRUCTION DOCUMENTS - PHASE C	10.14.2019
REV	ISSUE	DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

AUDITORIUM SECTIONS & DETAILS - PHASE C

Project Number:
5274-42
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36 ISSUED FOR ADDENDUM 2 - BGR 12.04.2019
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C

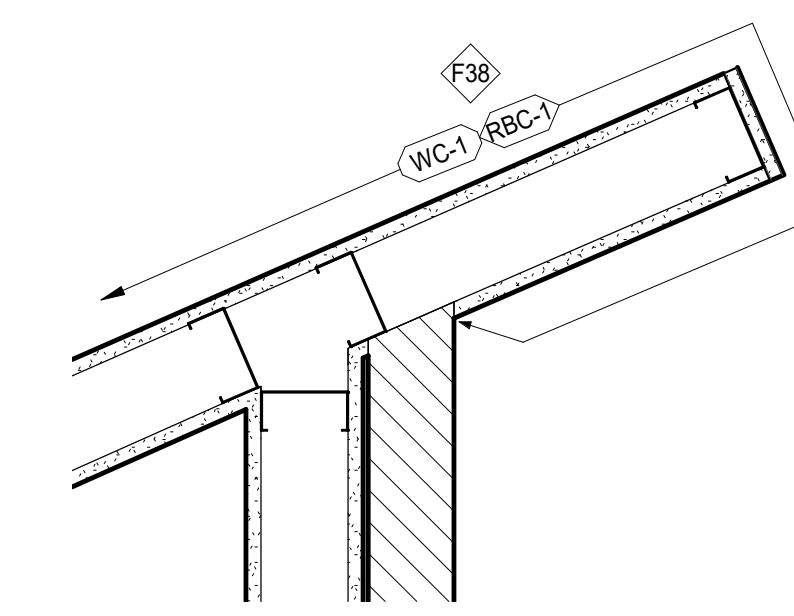
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**MFP
IMPLEMENTATION -
SOUTH**

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

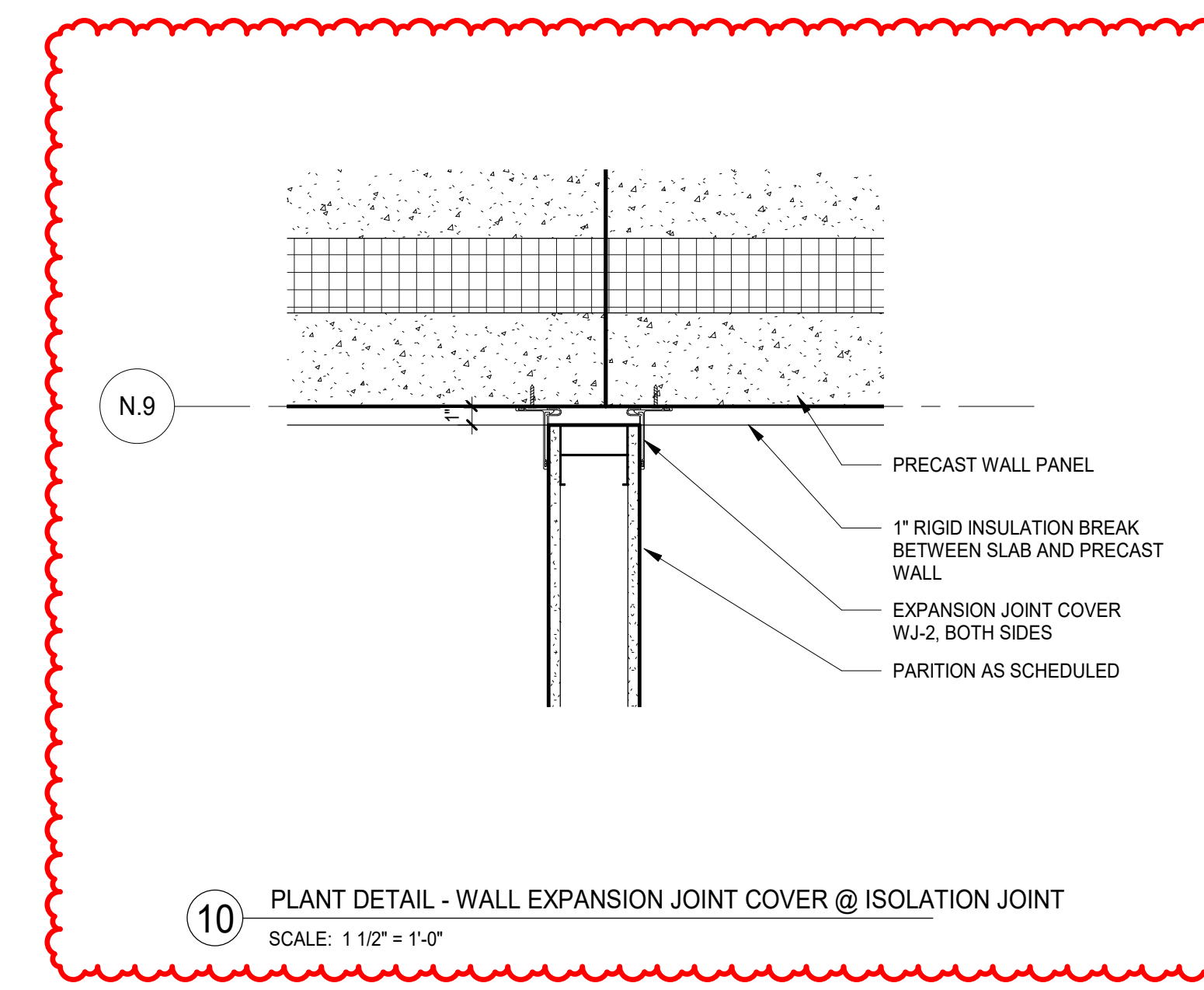
**INTERIOR PLAN DETAILS
- PHASE C**

Project Number:
5274-42
Drawn By:
Author
Sheet:

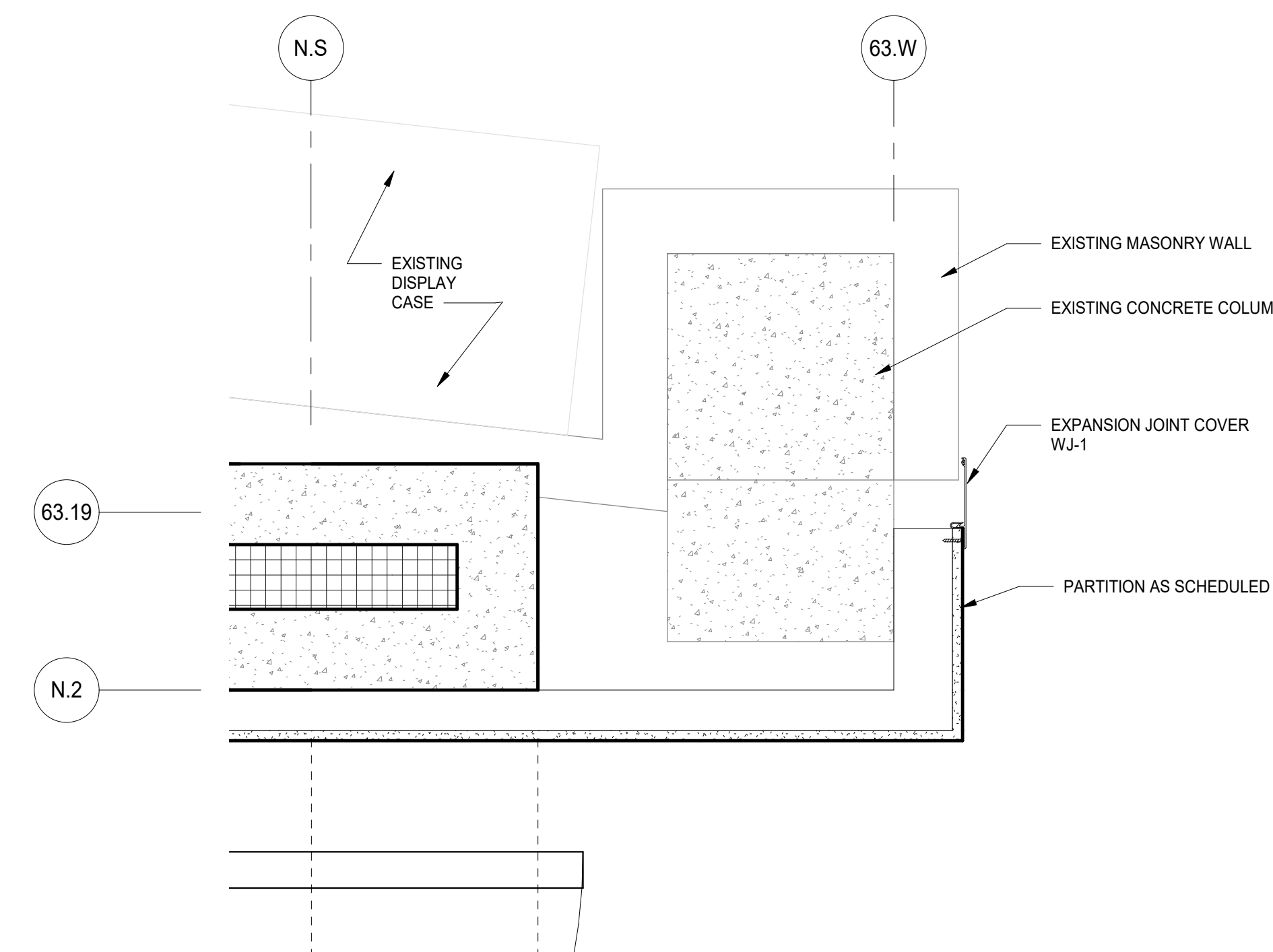
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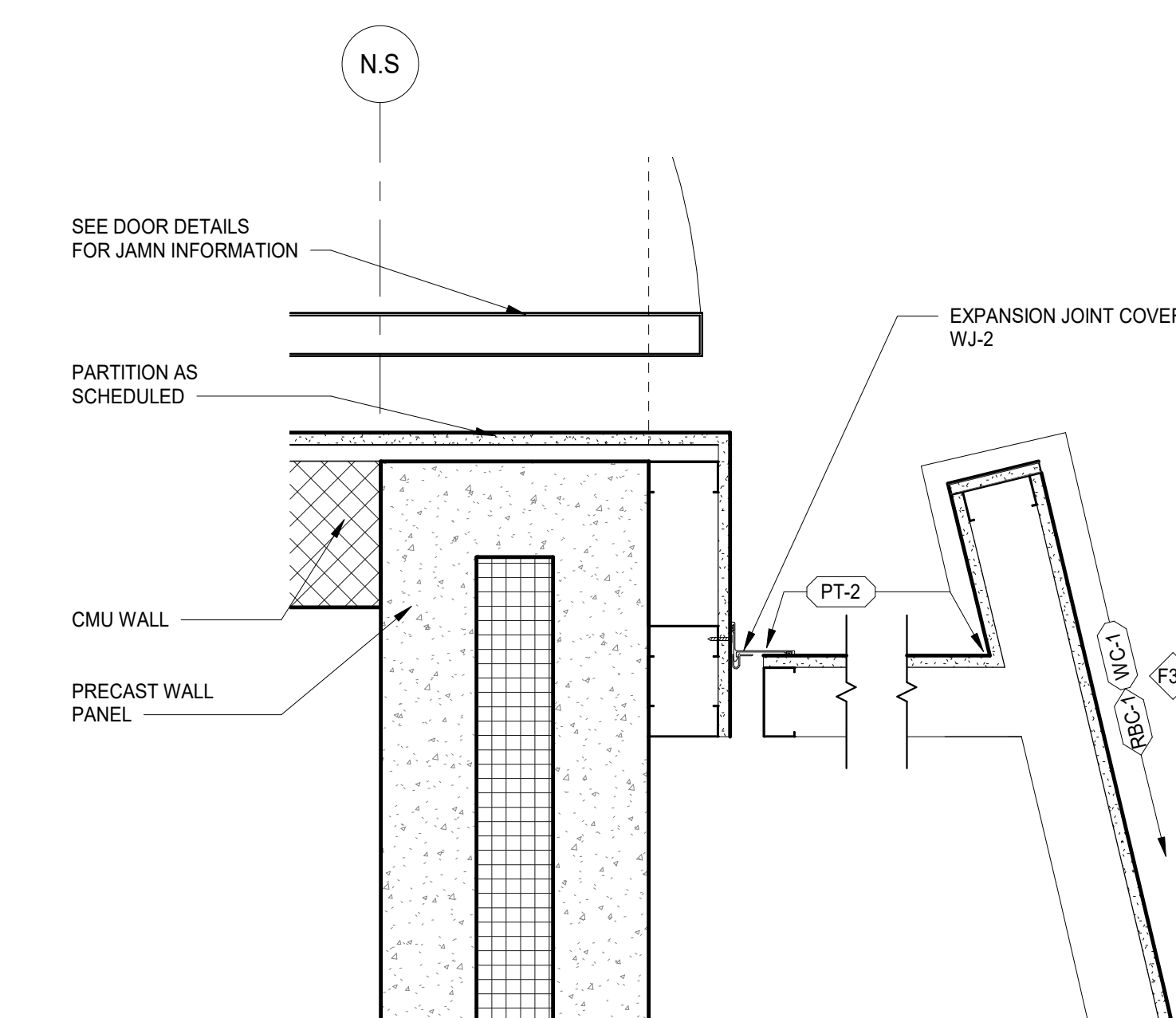
9 PLAN DETAIL - WC-1 AT CORNERS
SCALE: 1 1/2" = 1'-0"



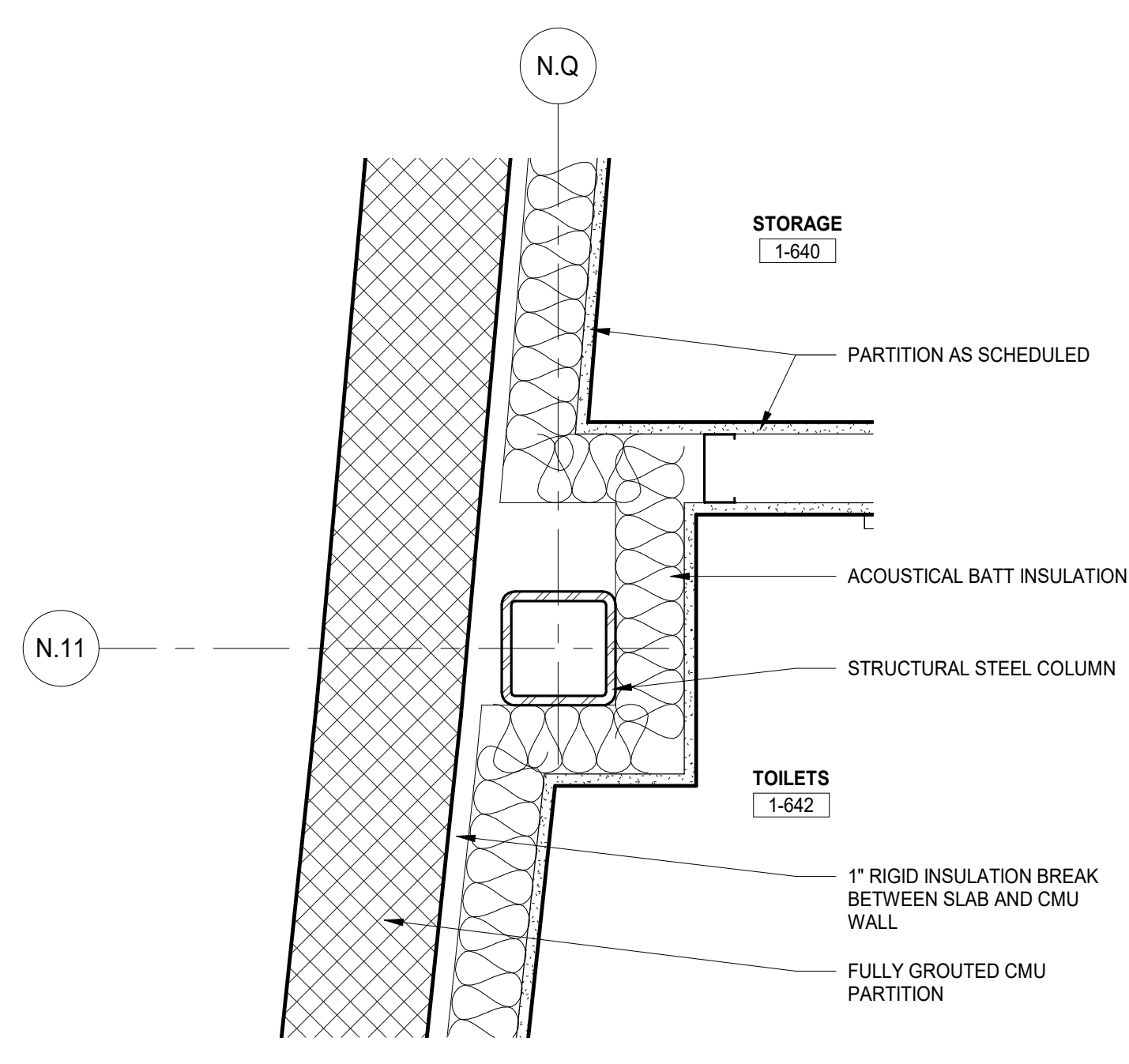
10 PLAN DETAIL - WALL EXPANSION JOINT COVER @ ISOLATION JOINT
SCALE: 1 1/2" = 1'-0"



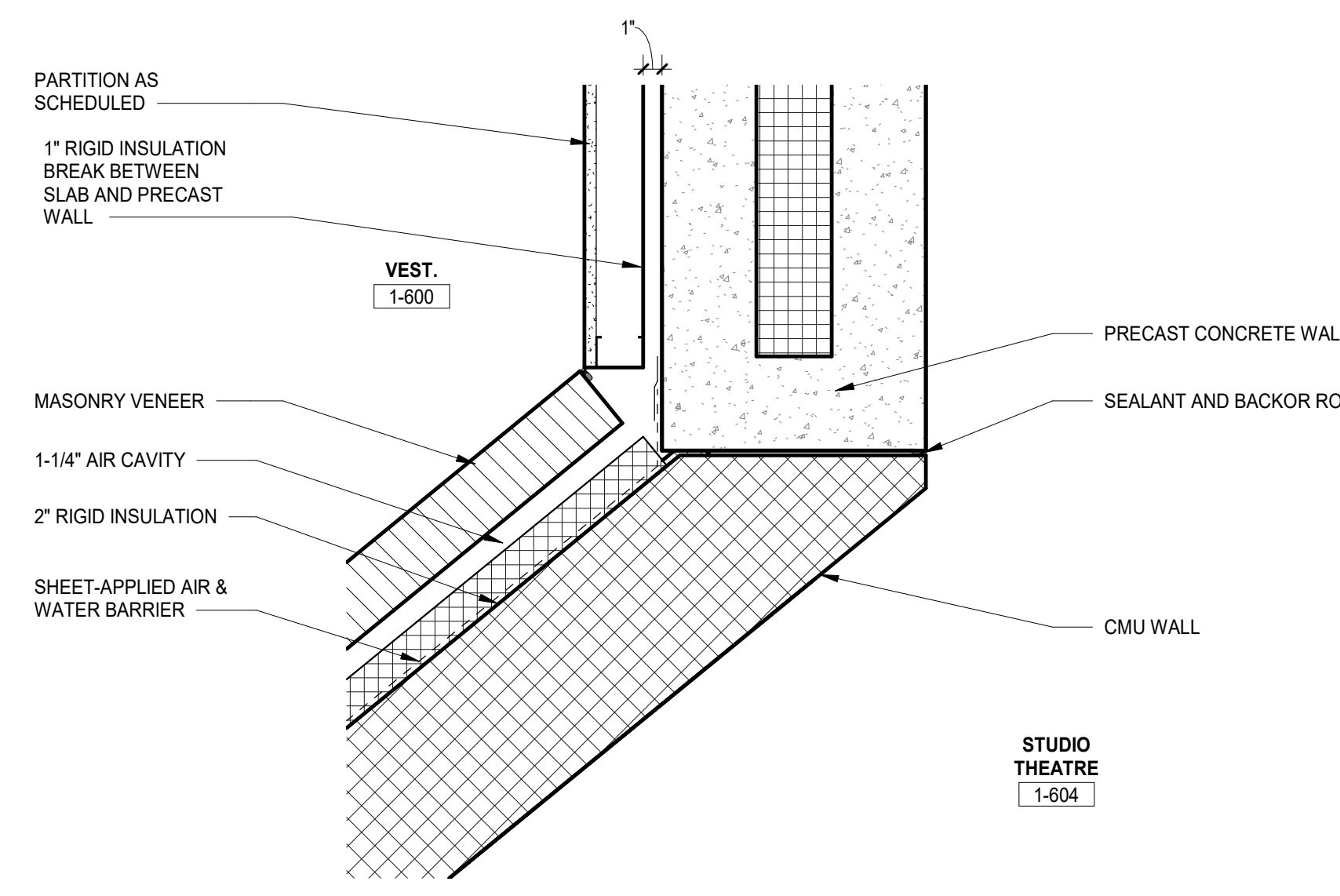
6 PLAN DETAIL - GRIDLINE N.S. & N.2.
SCALE: 1 1/2" = 1'-0"



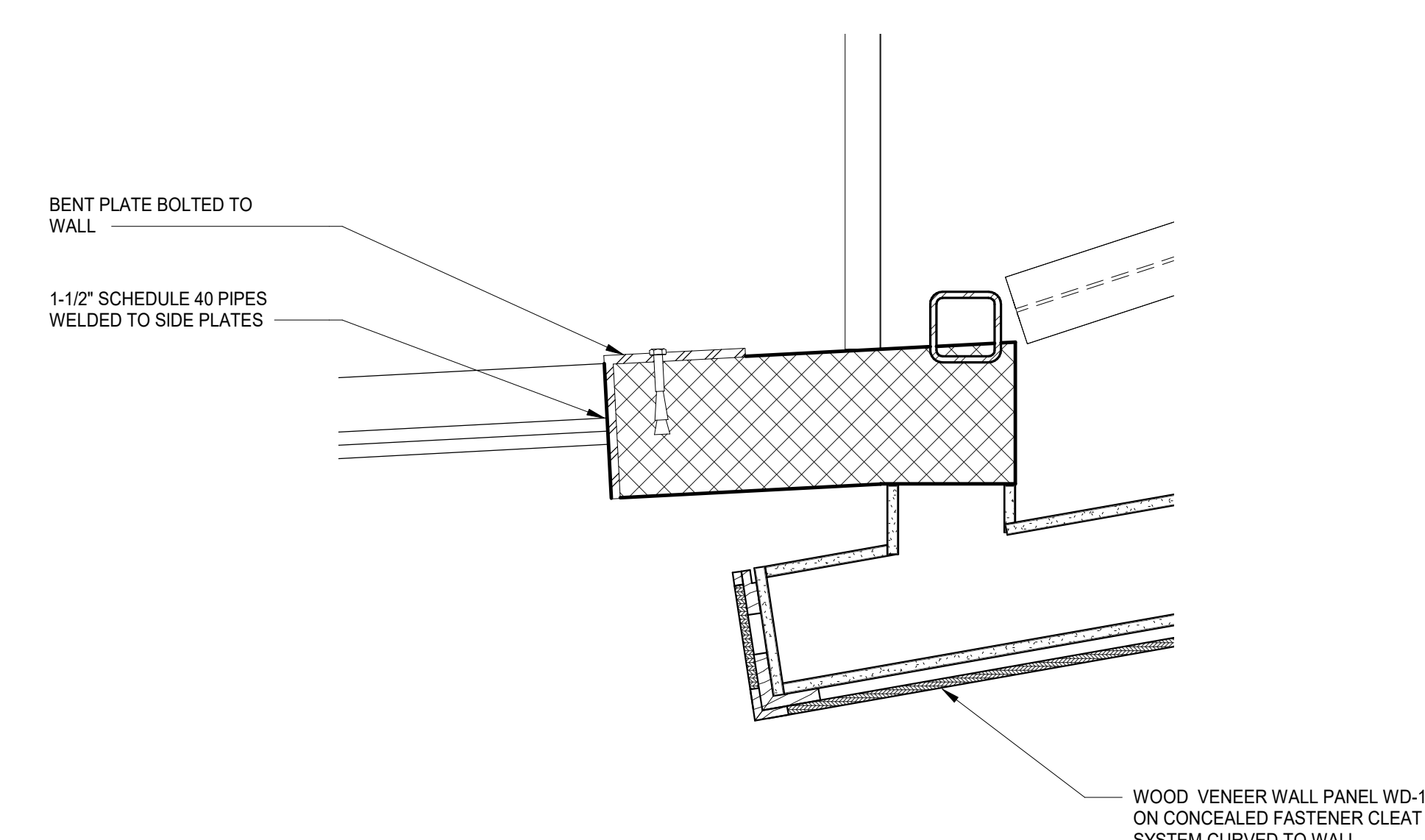
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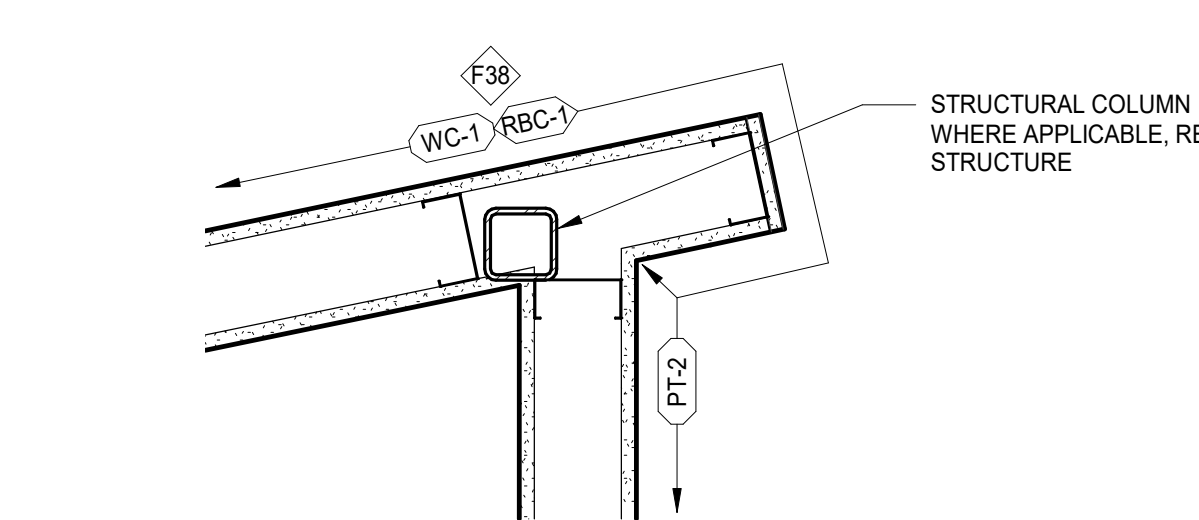
7 PLAN DETAIL - GRIDLINE N.Q. & N.11
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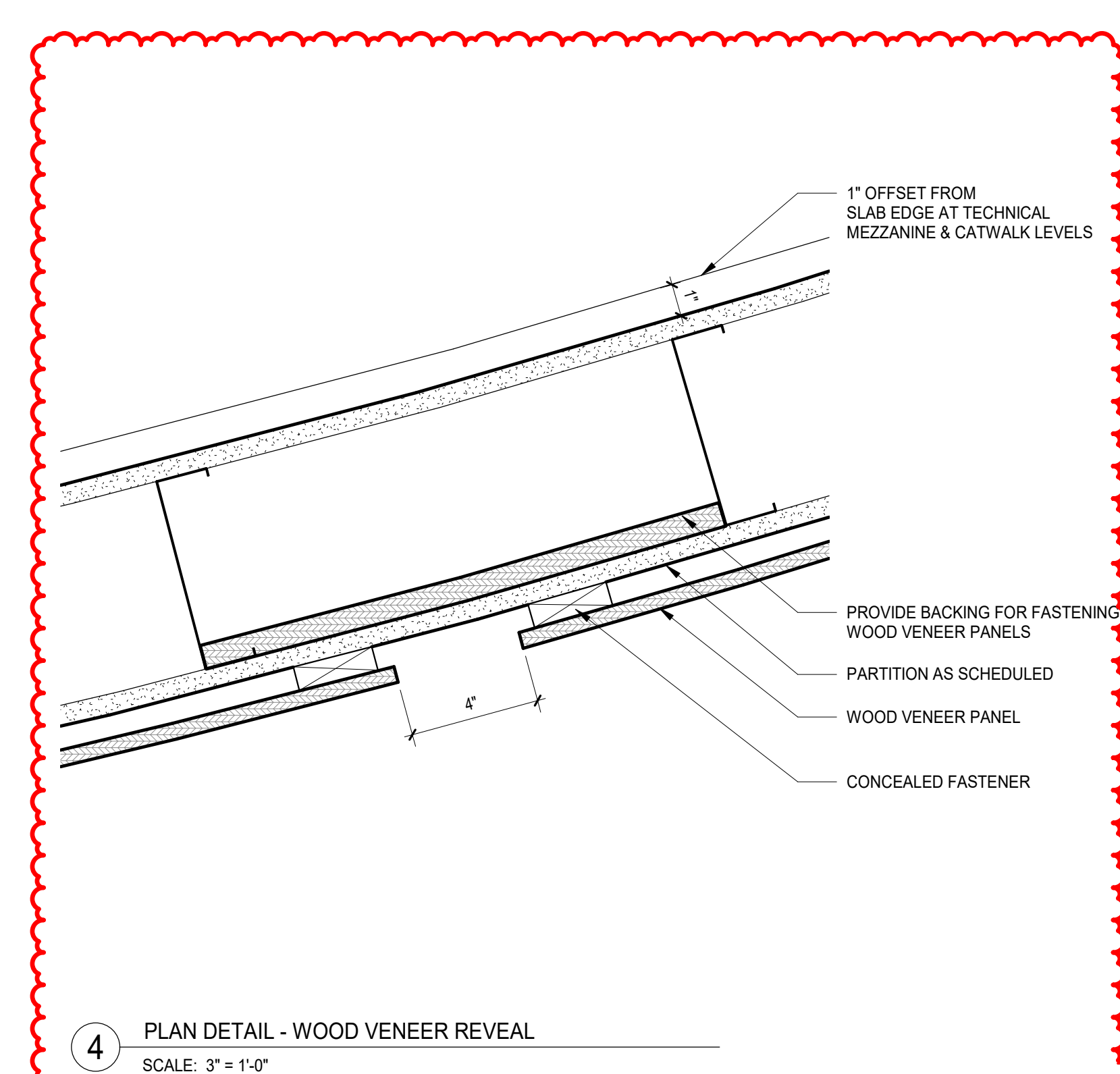
2 PLAN DETAIL - STUDIO THEATRE CORNER
SCALE: 1 1/2" = 1'-0"



3 PLAN DETAIL - BOX BEAM JAMB
SCALE: 1 1/2" = 1'-0"

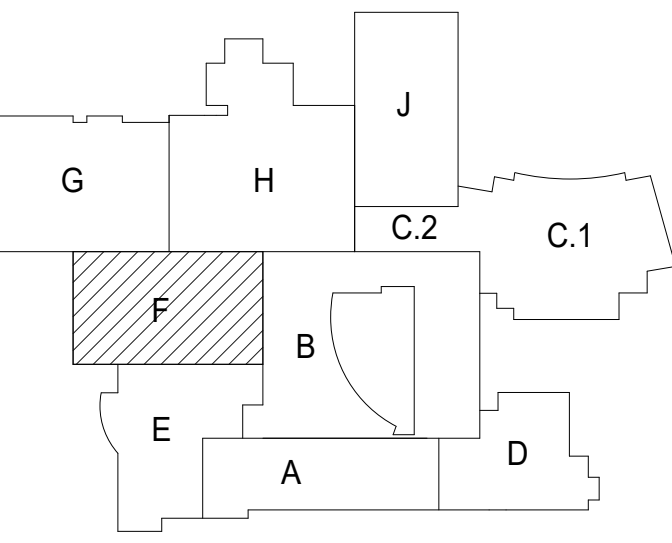


8 PLAN DETAIL - WC-1 AT CORNERS WITH ADJACENT PAINT
SCALE: 1 1/2" = 1'-0"



4 PLAN DETAIL - WOOD VENEER REVEAL
SCALE: 3" = 1'-0"

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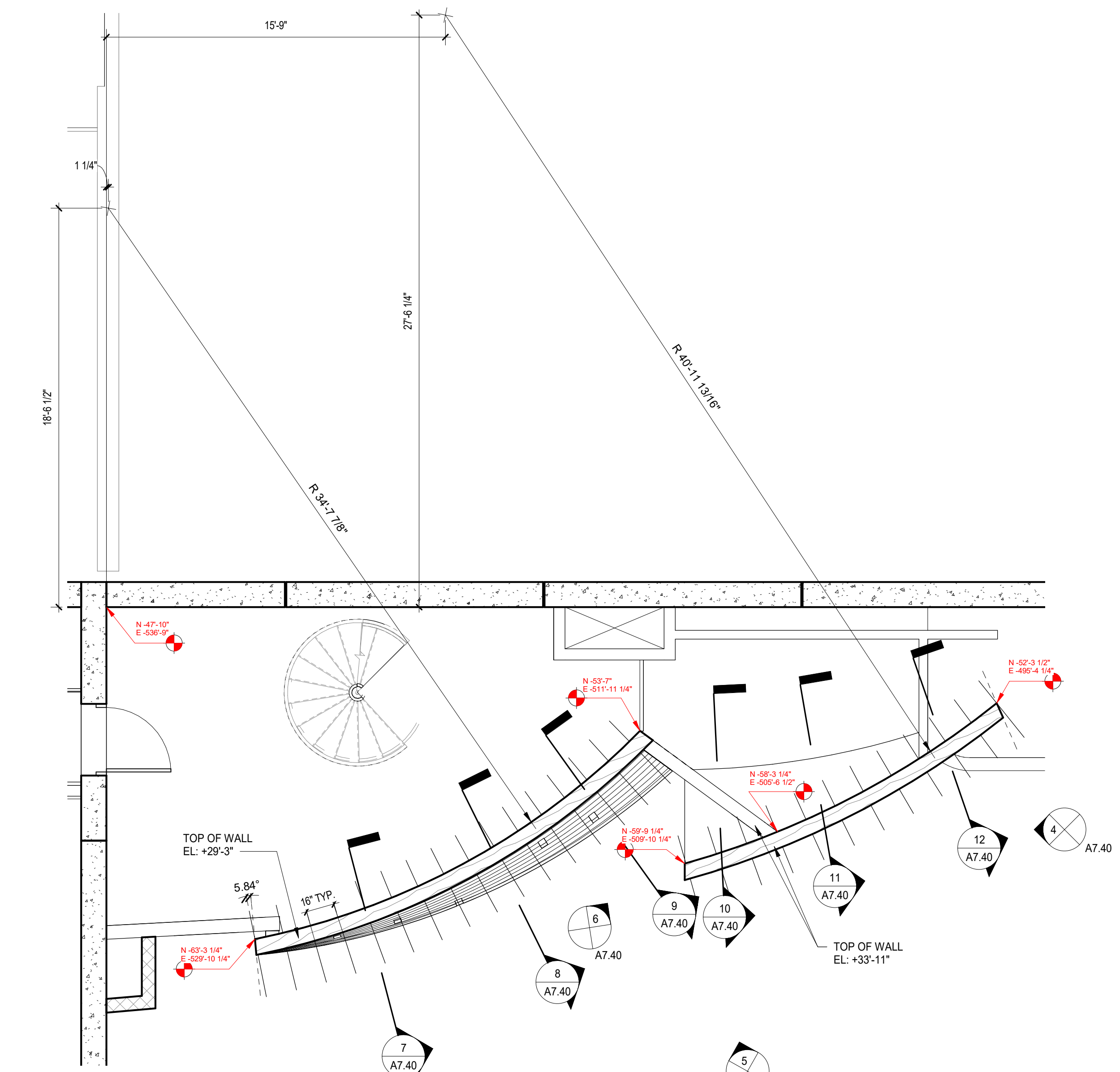
**MFP
IMPLEMENTATION -
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1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

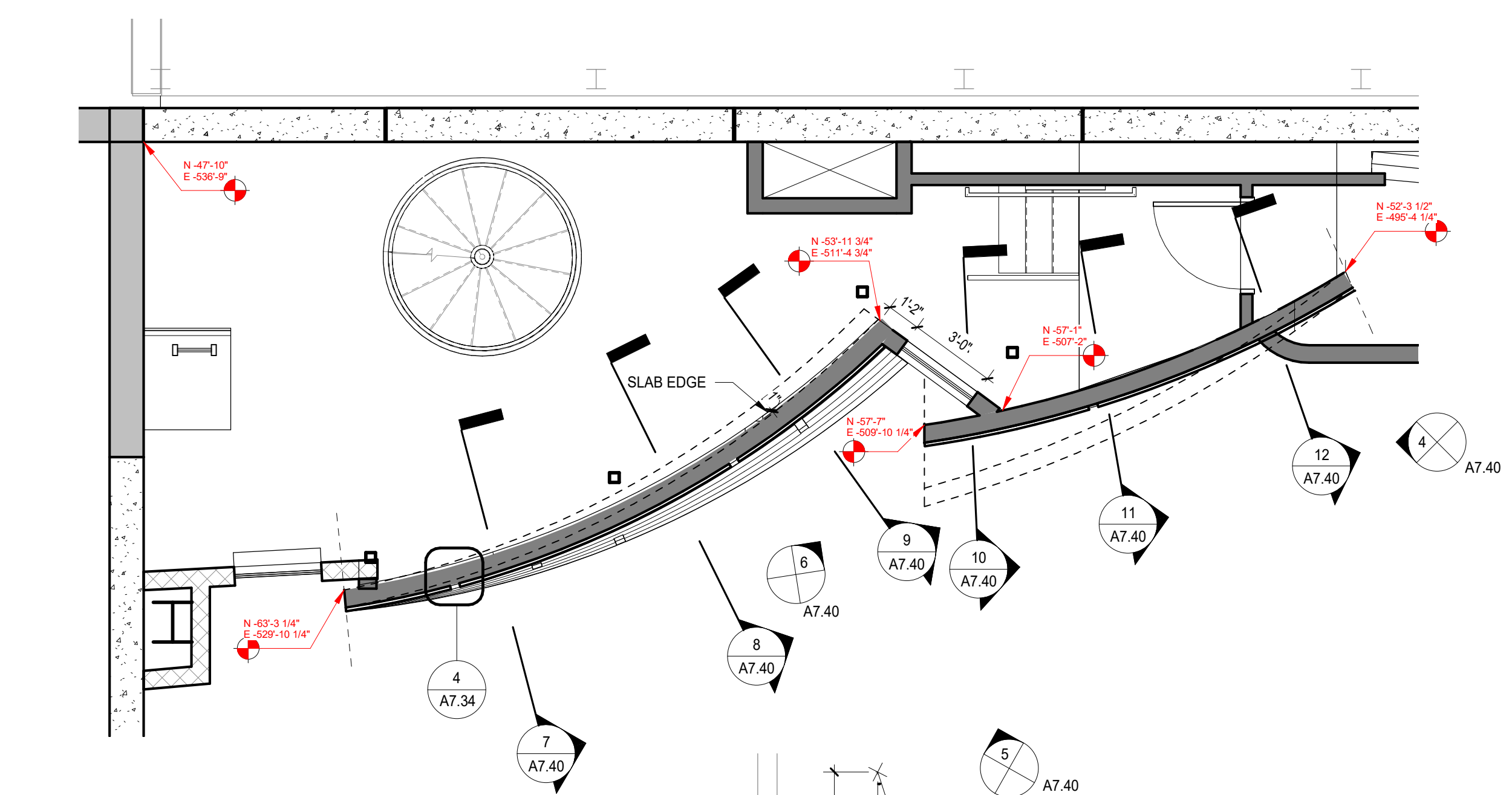
**AUDITORIUM CHEEK
WALL**

Project Number:
5274-42
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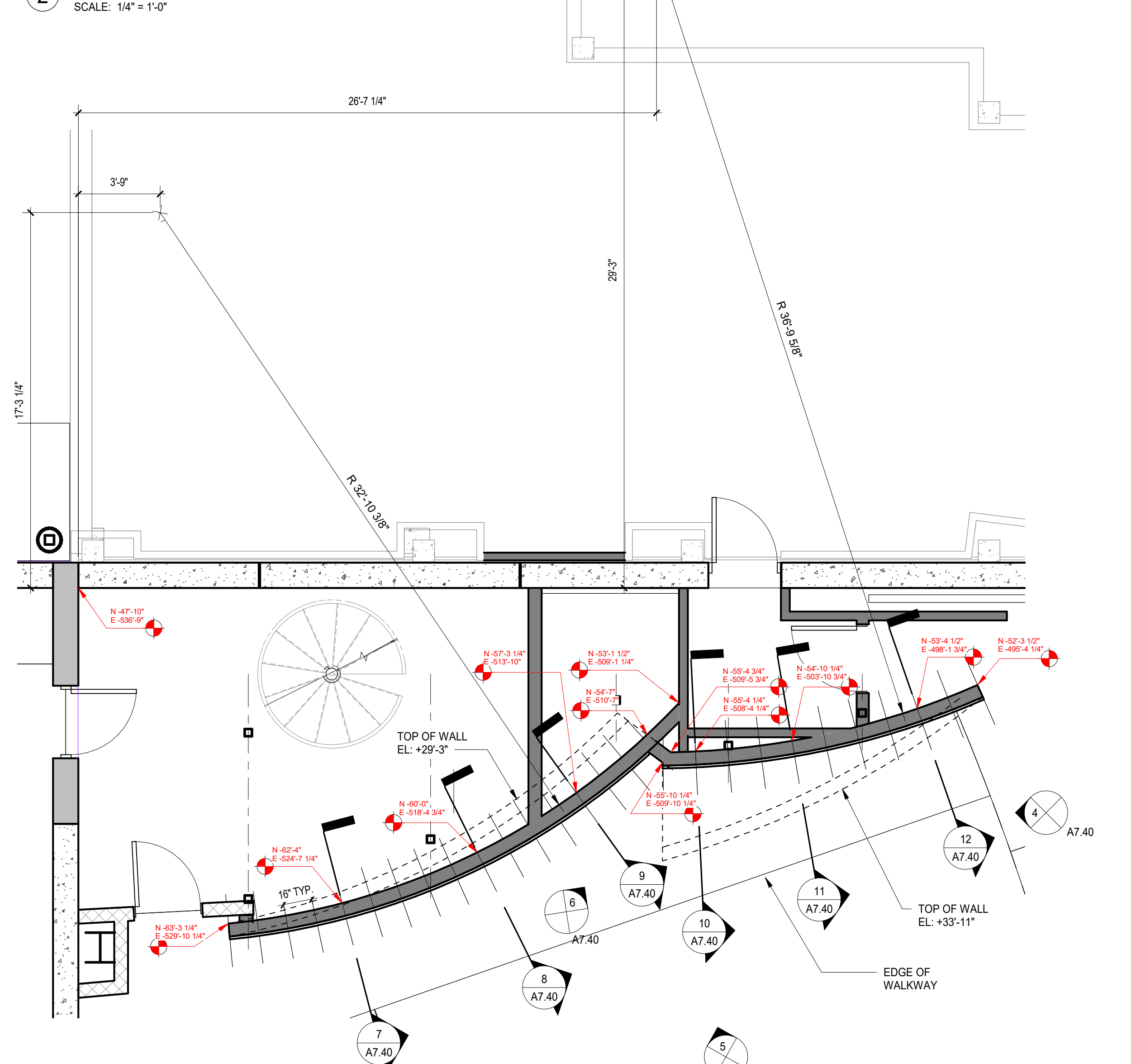
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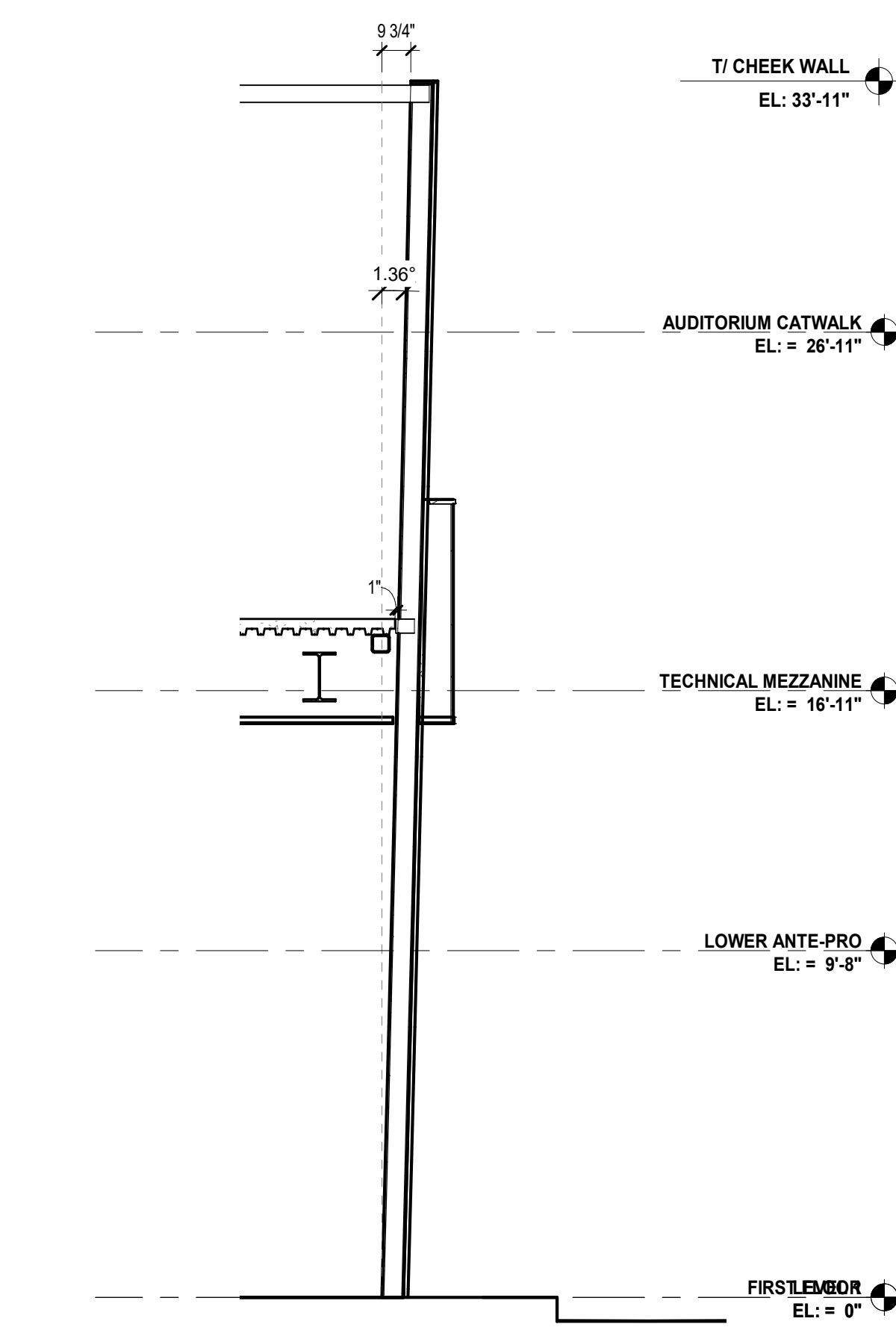
3 AUDITORIUM CHEEK WALL - CATWALK
SCALE: 1/4" = 1'-0"



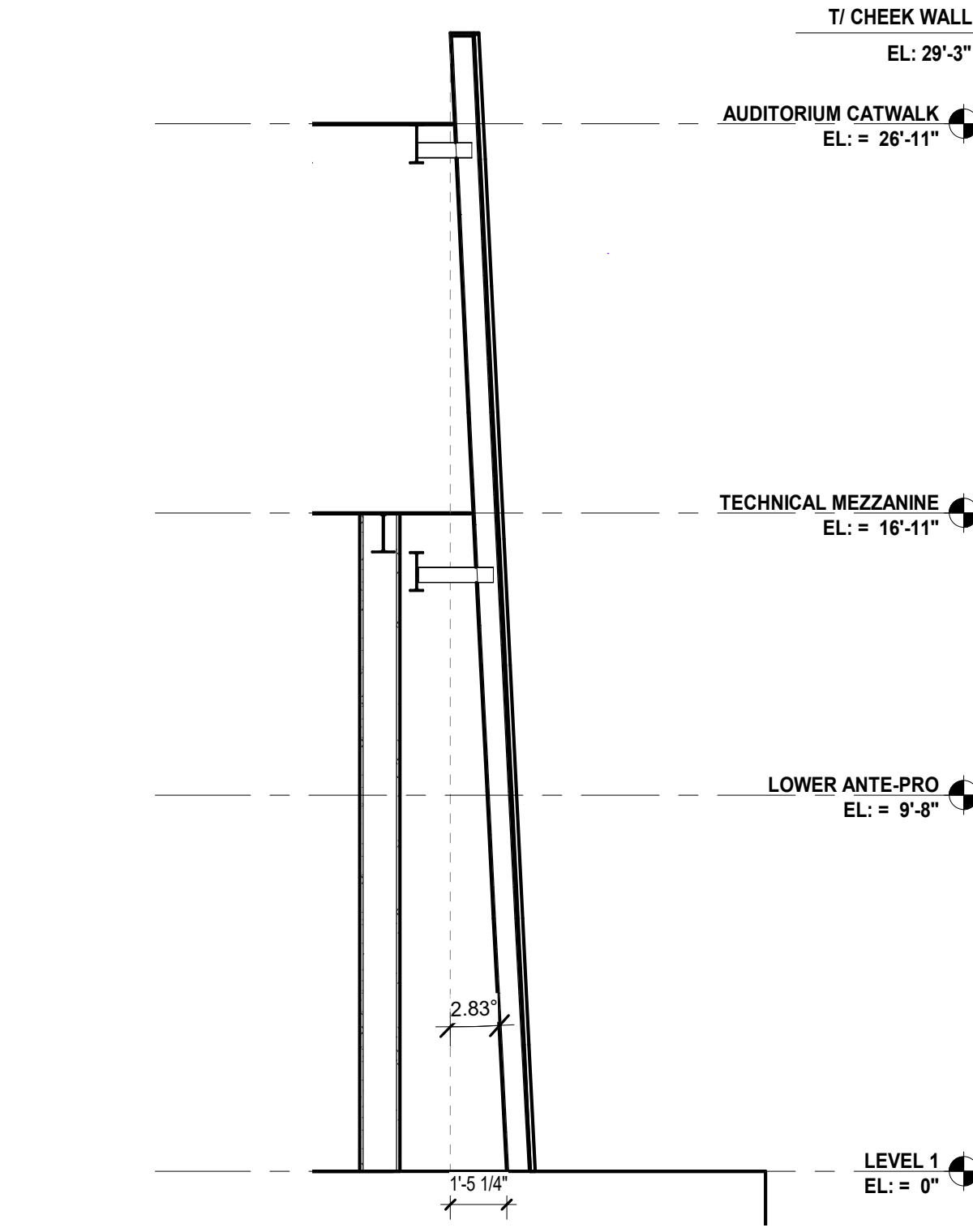
2 AUDITORIUM CHEEK WALL - TECHNICAL MEZZANINE
SCALE: 1/4" = 1'-0"



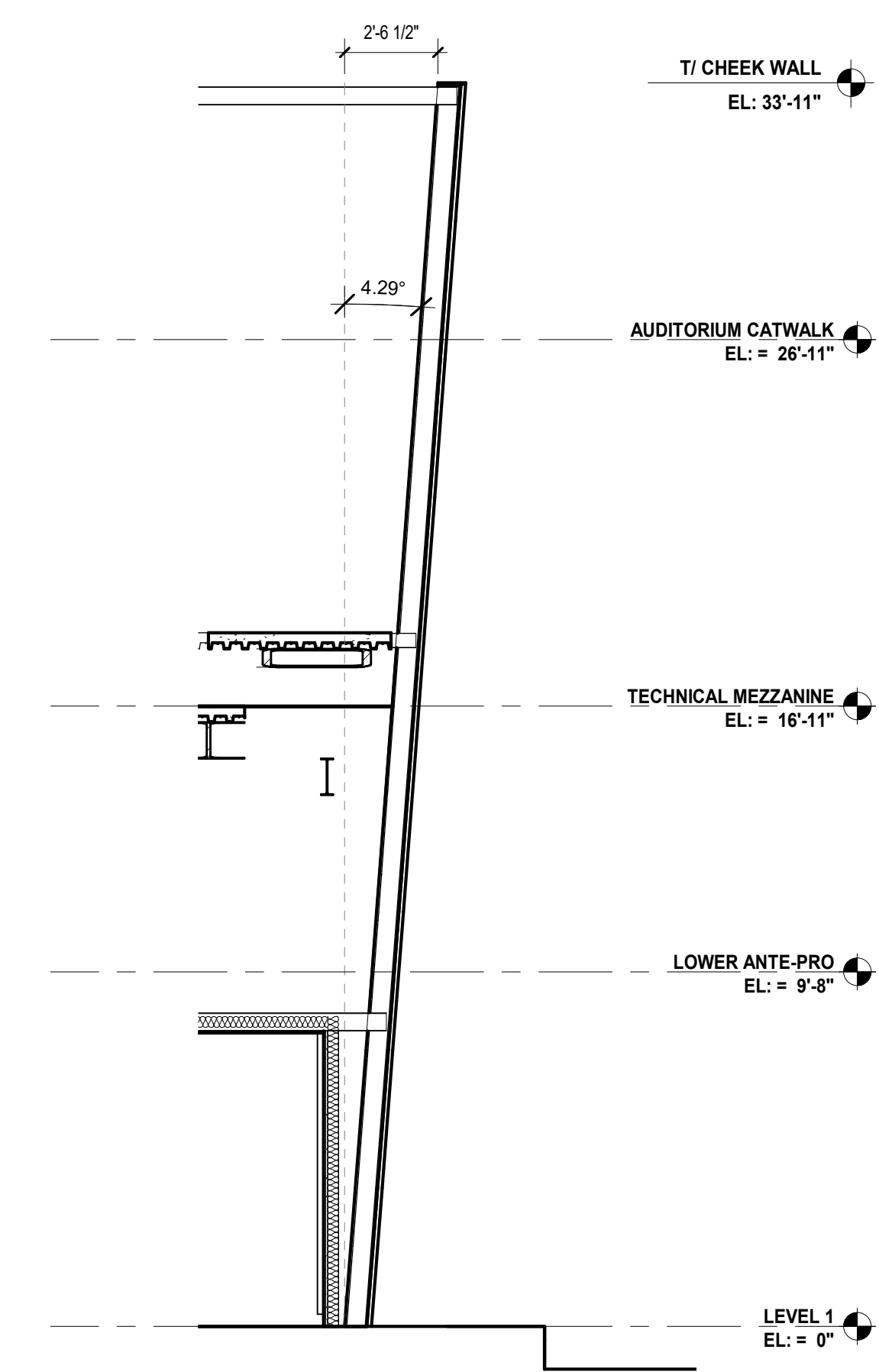
1 AUDITORIUM CHEEK WALL - LEVEL 1
SCALE: 1/4" = 1'-0"



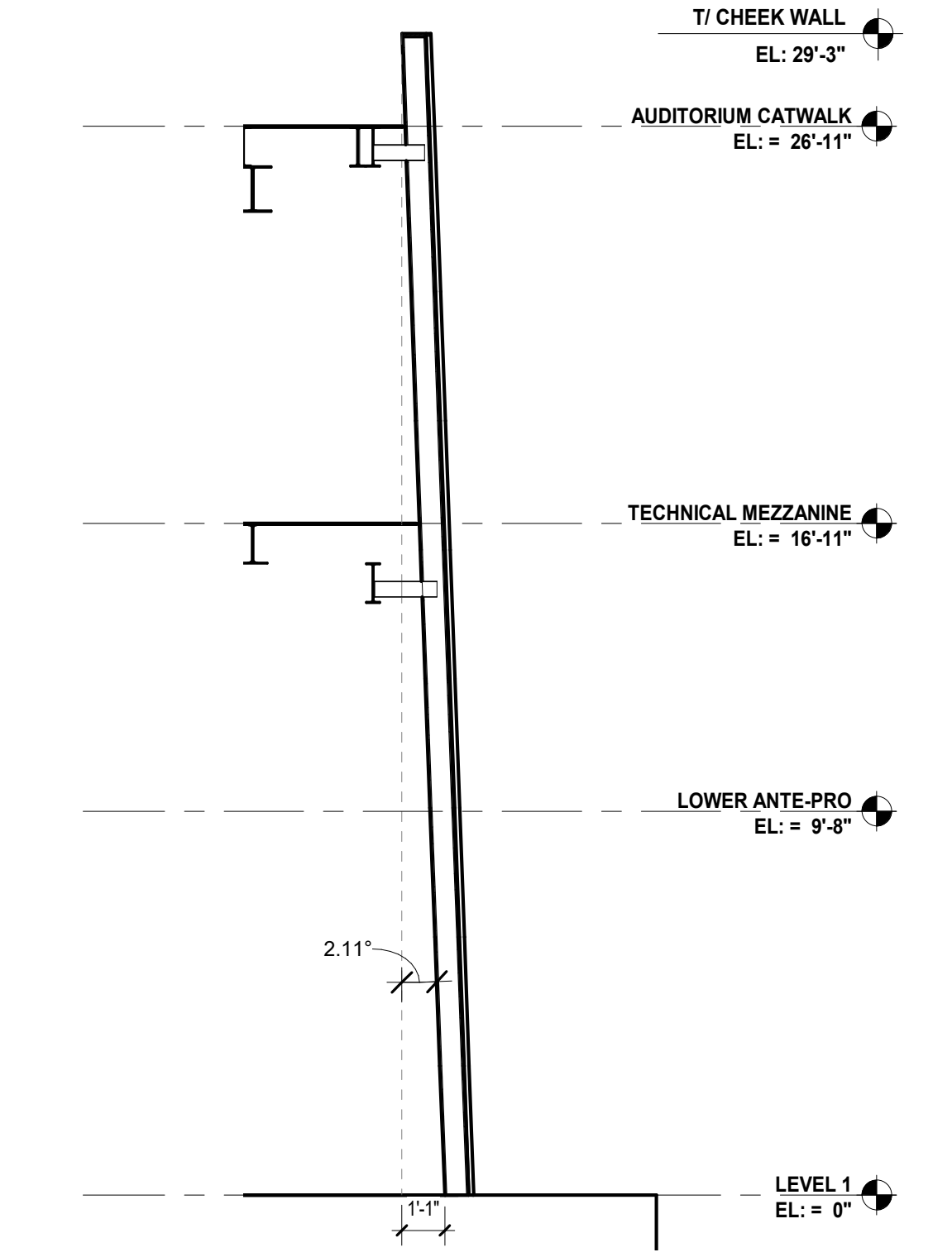
12 WALL SECTION - 12
SCALE: 1/4" = 1'-0"



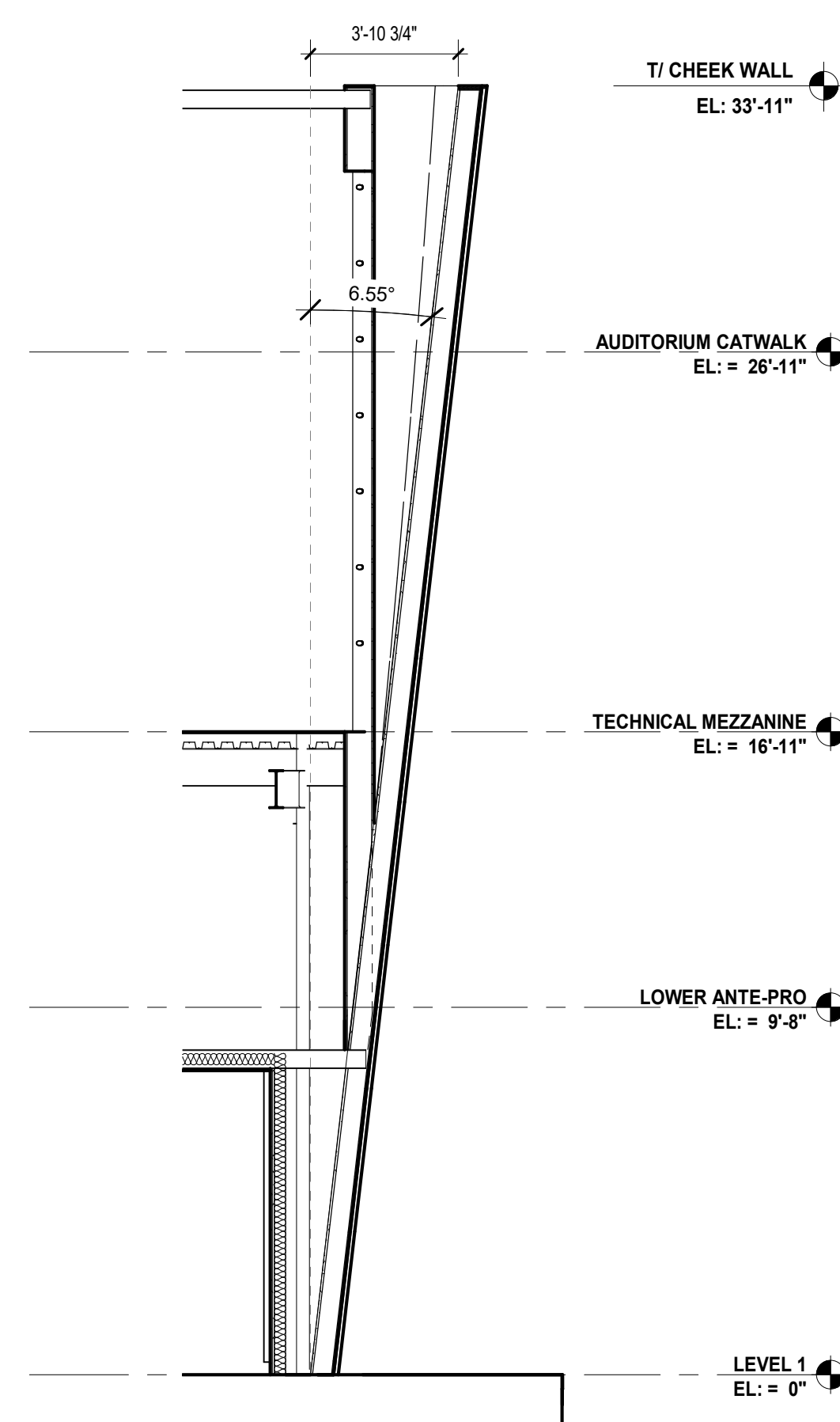
9 WALL SECTION - 9
SCALE: 1/4" = 1'-0"



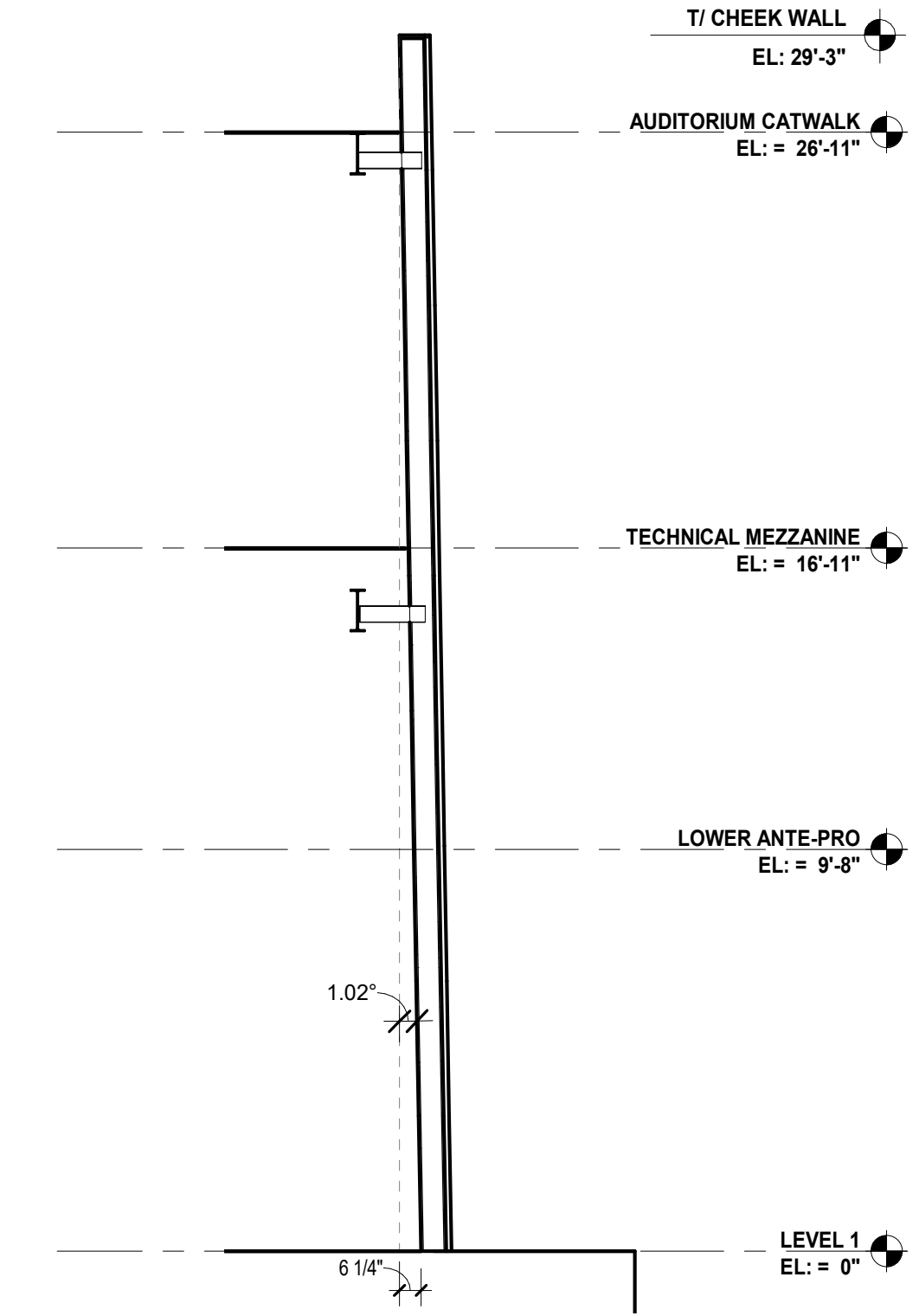
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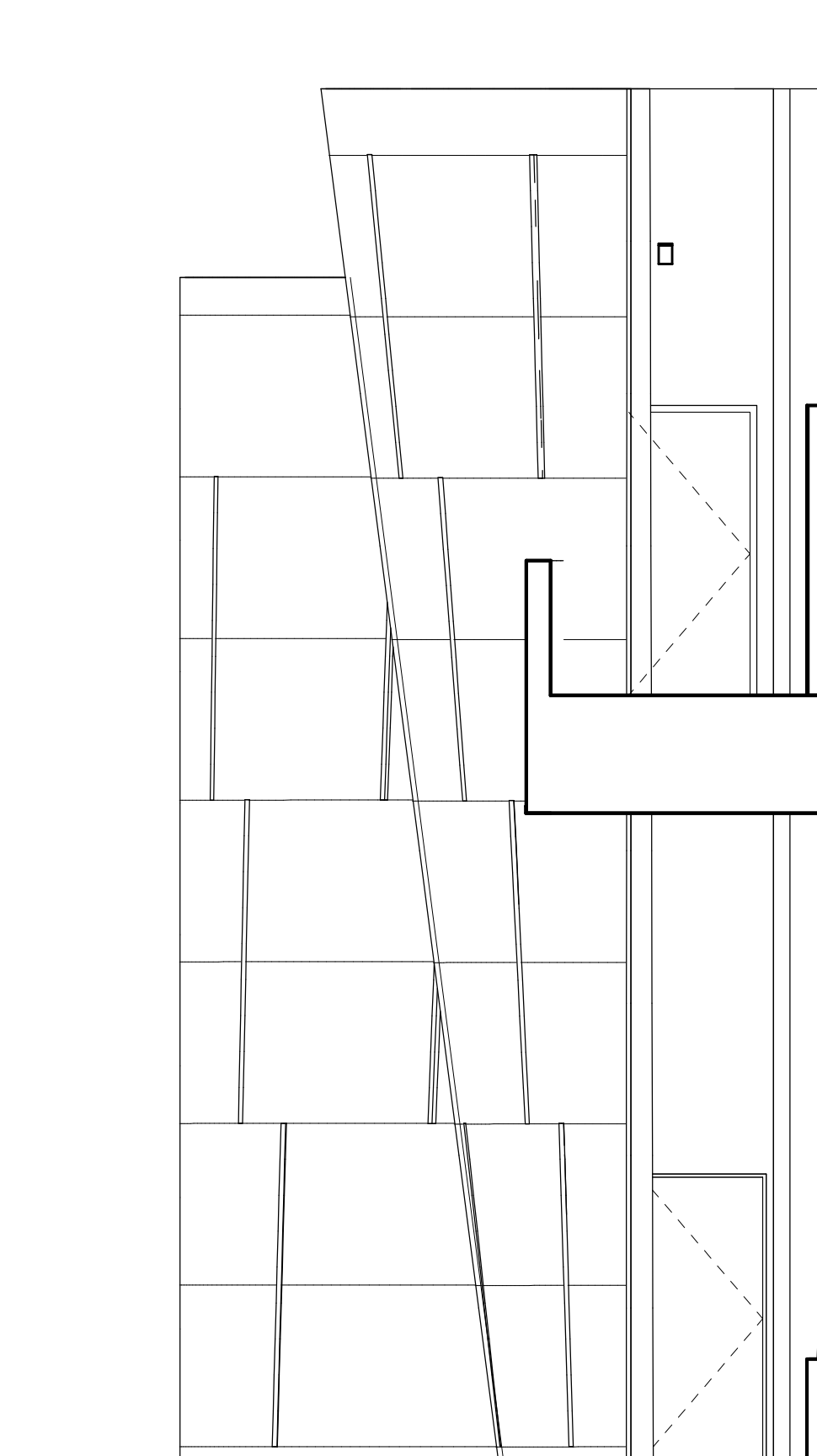
8 WALL SECTION - 8
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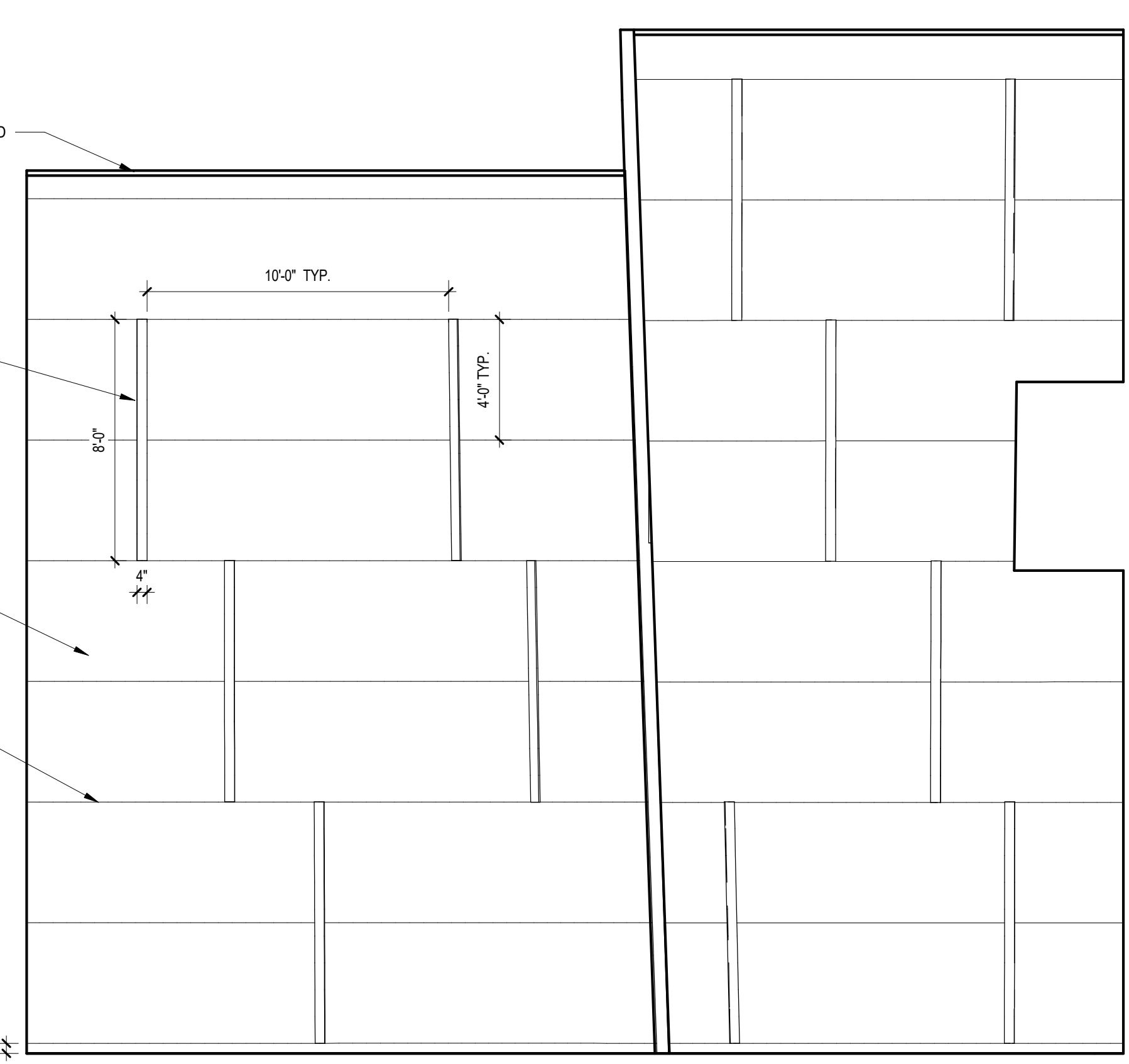
10 WALL SECTION - 10
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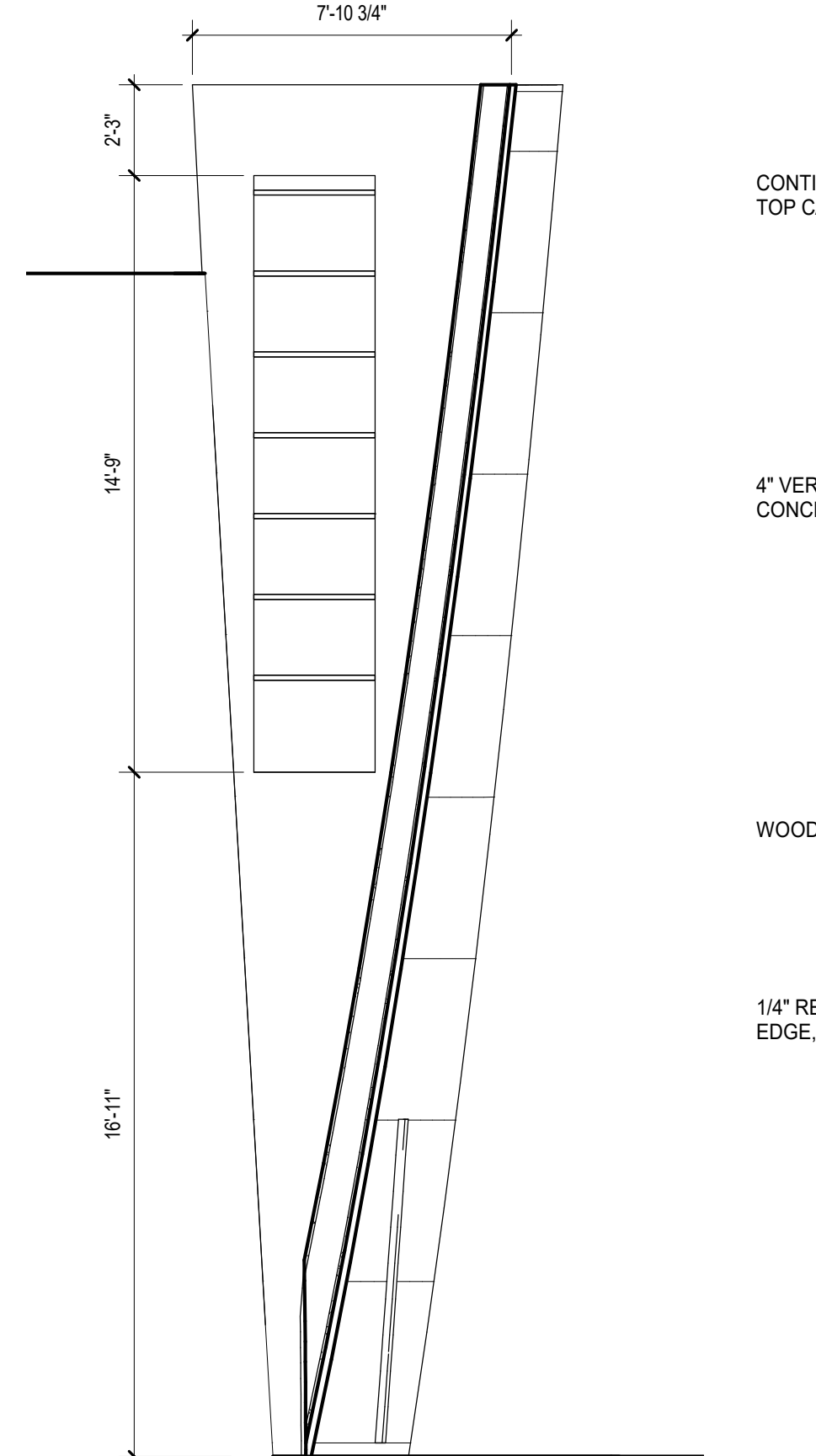
7 WALL SECTION
SCALE: 1/4" = 1'-0"



4 ELEVATION - CHECK WALL VIEW WEST
SCALE: 1/4" = 1'-0"



5 ELEVATION - CHECK WALL VIEW NORTH
SCALE: 1/4" = 1'-0"



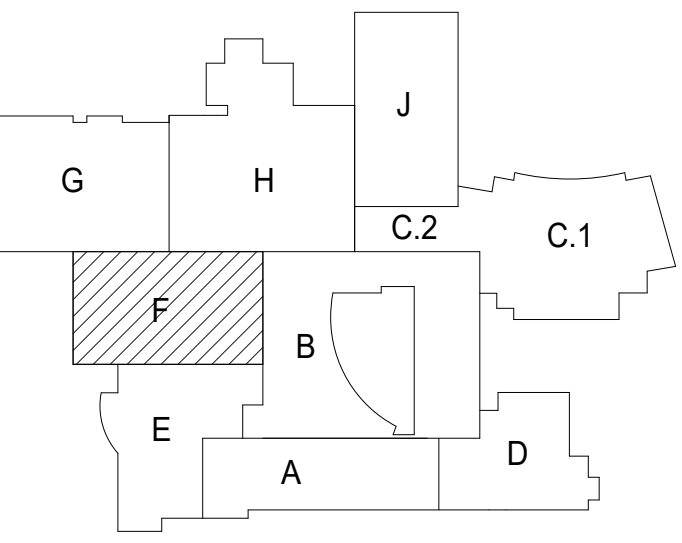
6 ELEVATION - BOX BEAM LIGHTING POSITION
SCALE: 1/4" = 1'-0"



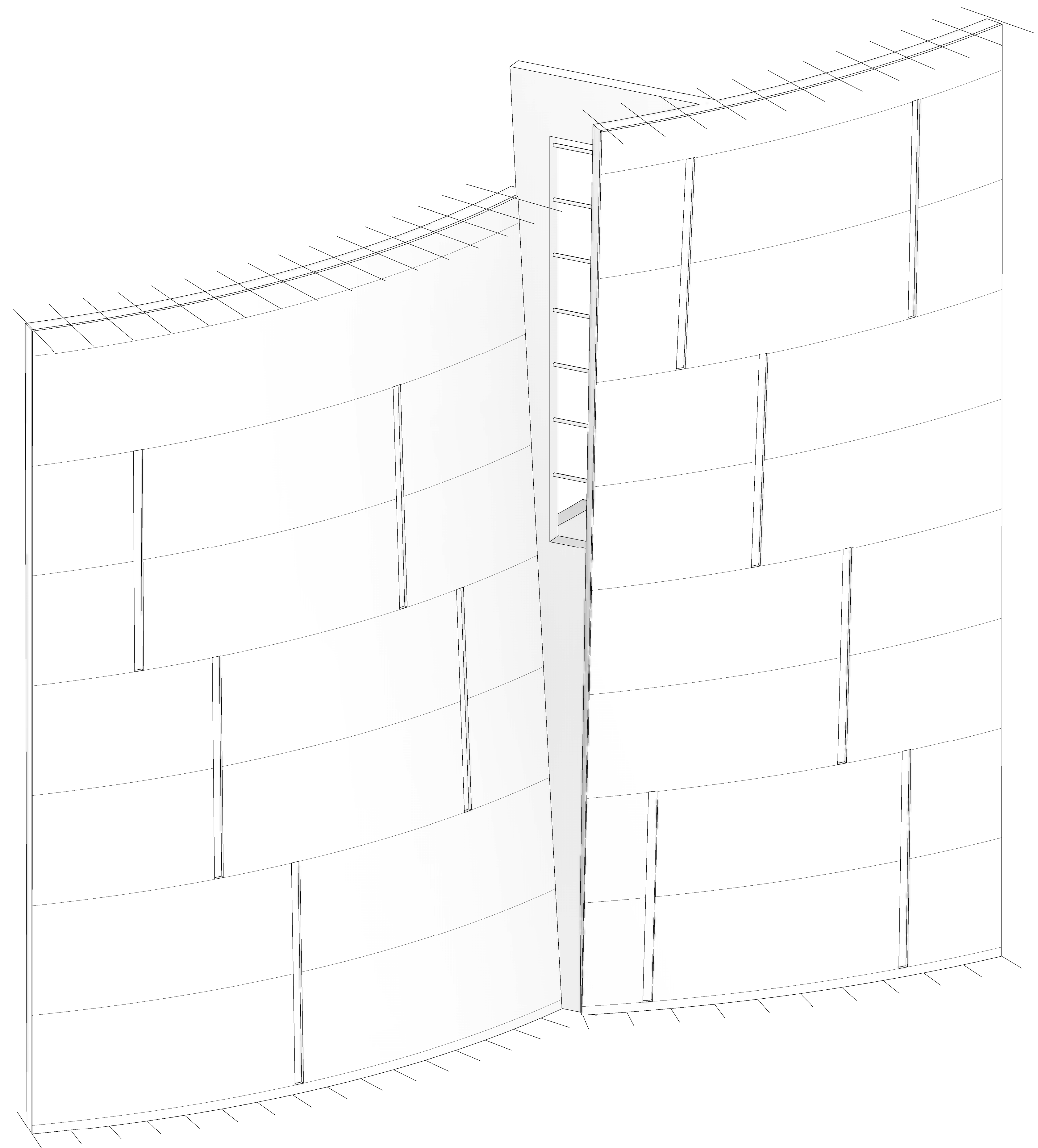
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NORTH



1 CHEEK WALL AXON
SCALE: _____

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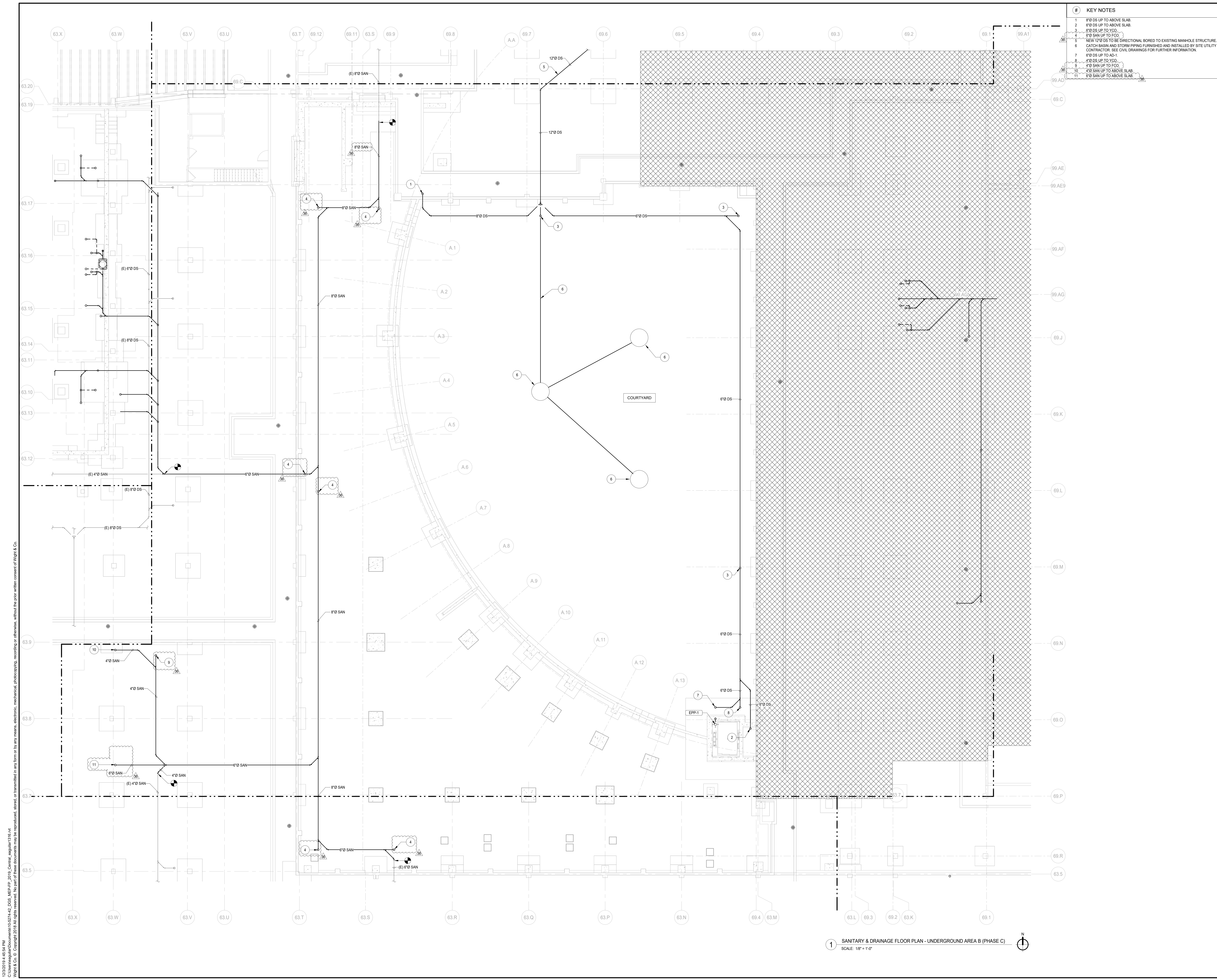
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1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

**AUDITORIUM CHEEK
WALL**

Project Number:
5274-42
Drawn By:
Author
Sheet:

A7.41



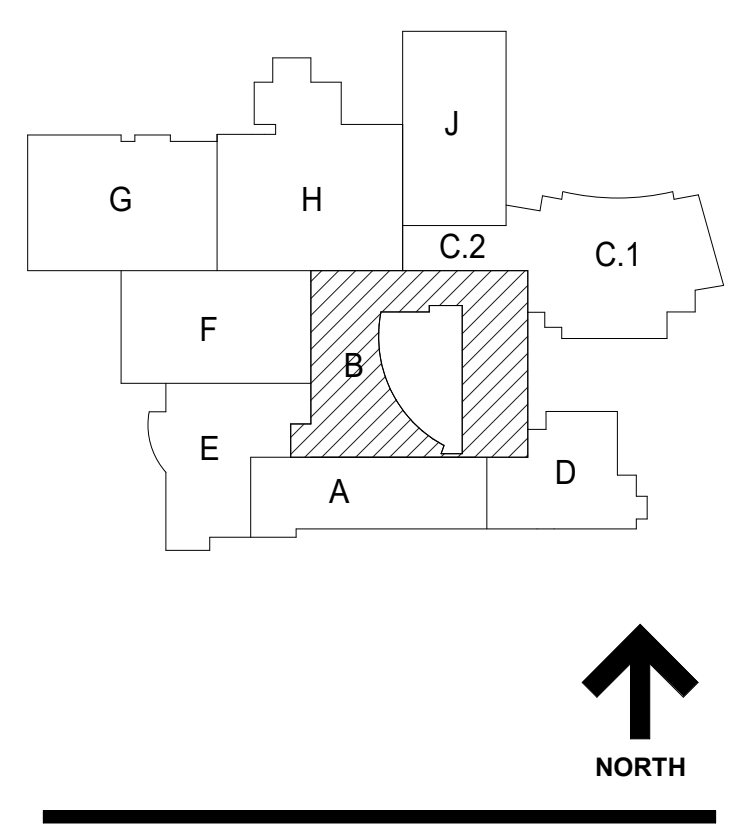
- KEY NOTES**
- 1 8" DS UP TO ABOVE SLAB
 - 2 6" DS UP TO ABOVE SLAB
 - 3 6" DS UP TO YCD
 - 4 8" SAN UP TO YCD
 - 5 NEW 12" DS TO BE DIRECTIONAL BORED TO EXISTING MANHOLE STRUCTURE
 - 6 CATCH BASIN AND STORM PIPING FURNISHED AND INSTALLED BY SITE UTILITY CONTRACTOR. SEE CIVIL DRAWINGS FOR FURTHER INFORMATION.
 - 7 6" DS UP TO AD-1
 - 8 6" DS UP TO YCD
 - 9 4" SAN UP TO YCD
 - 10 4" SAN UP TO ABOVE SLAB
 - 11 8" SAN UP TO ABOVE SLAB

DISTRICT 99

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	ISSUED FOR BID GROUP 8 - PHASE C	11.26.2019
	ISSUED FOR 80% CD - PHASE C	11.01.2019
	ISSUED FOR 75% CD - PHASE C	10.14.2019
	ISSUED FOR 50% CD - PHASE C	10.02.2019
	ISSUED FOR 25% CD - PHASE C	08.30.2019
	ISSUED FOR 100% DD	07.12.2019
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MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

SANITARY & DRAINAGE FLOOR PLAN - UNDERGROUND AREA B (PHASE C)

Project Number: 5274-42
Drawn By: E. AGUILAR
Sheet: **P1.10B.c**

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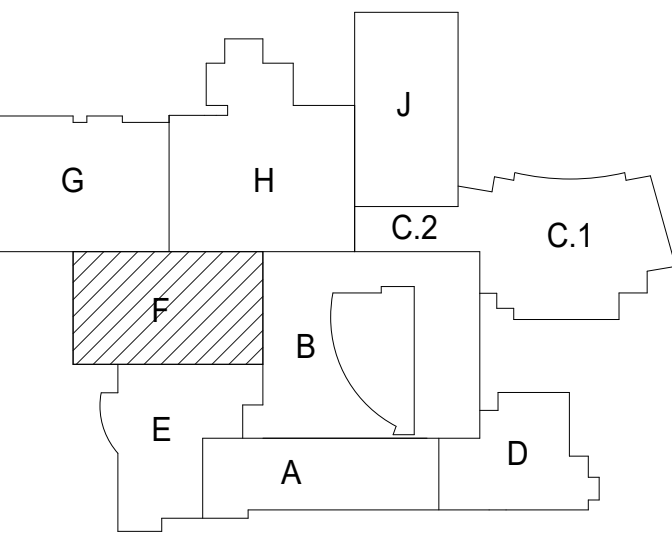
1 SANITARY & DRAINAGE FLOOR PLAN - UNDERGROUND AREA B (PHASE C)
SCALE: 1/8" = 1'-0"



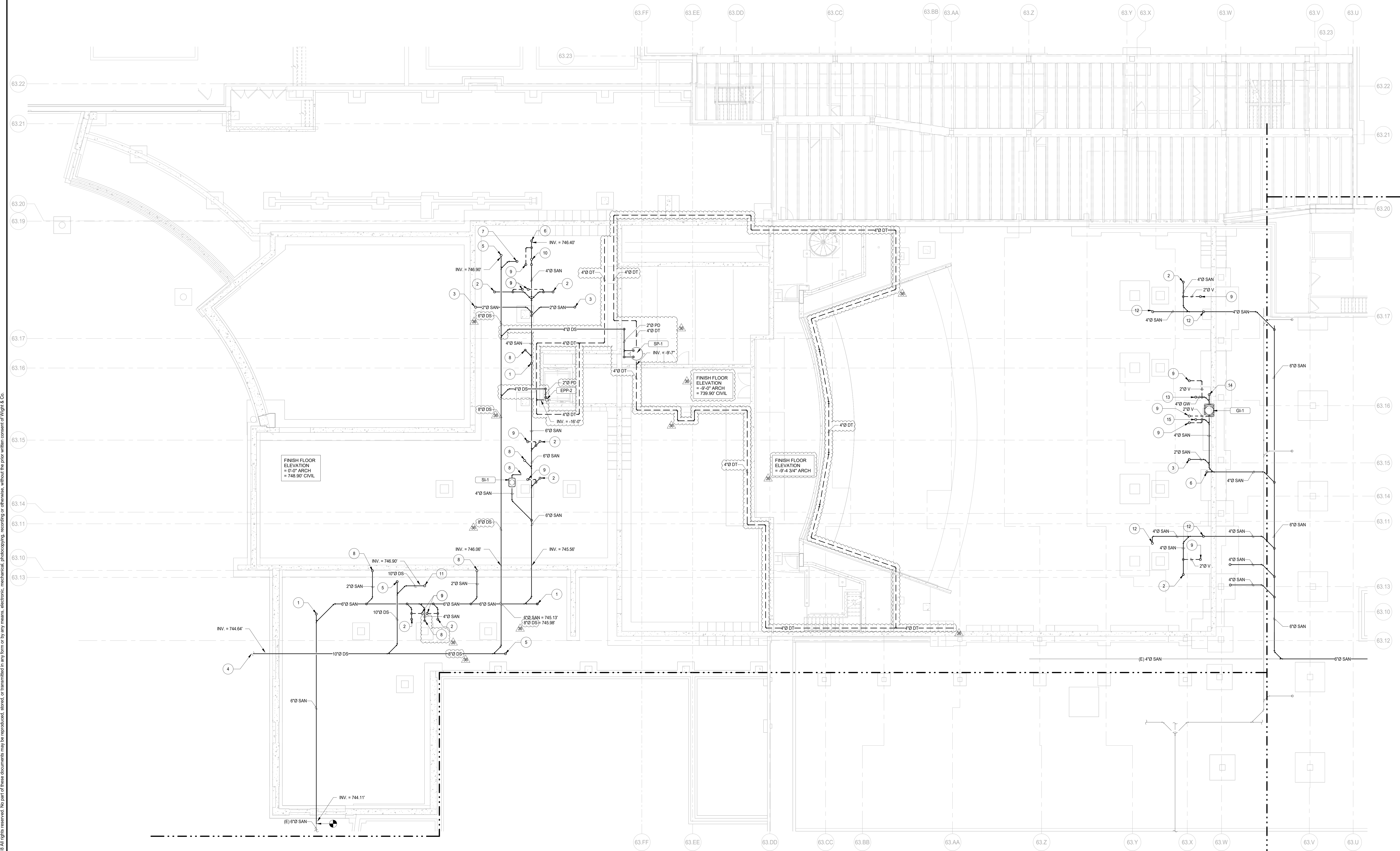
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#	KEY NOTES
1	6"0 SAN UP TO FCO
2	4"0 SAN UP TO FD-1
3	2"0 SAN UP TO SERVE FIXTURE(S)
4	FOR CONTINUATION, SEE CIVIL DRAWINGS. APPROXIMATE INVERT AT ± GRADE
5	6"0 DS UP TO FCO
6	4"0 SAN UP TO FCO
7	6"0 DS UP TO ABOVE SLAB
8	4"0 SAN UP TO ABOVE SLAB
9	2"0 V UP TO ABOVE SLAB
10	4"0 UP TO JS-1
11	10"0 DS UP TO ABOVE SLAB
12	4"0 SAN UP TO ABOVE SLAB, TO SERVE FIXTURE(S)
13	4"0 GW UP TO FS-1
14	4"0 GW UP TO FCO
15	4"0 SAN UP TO FS-1



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	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 80% CD - PHASE C	11.01.2019
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	ISSUED FOR 25% CD - PHASE C	08.30.2019
	ISSUED FOR 100% DD	07.12.2019

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DOWNERS GROVE, IL 60516

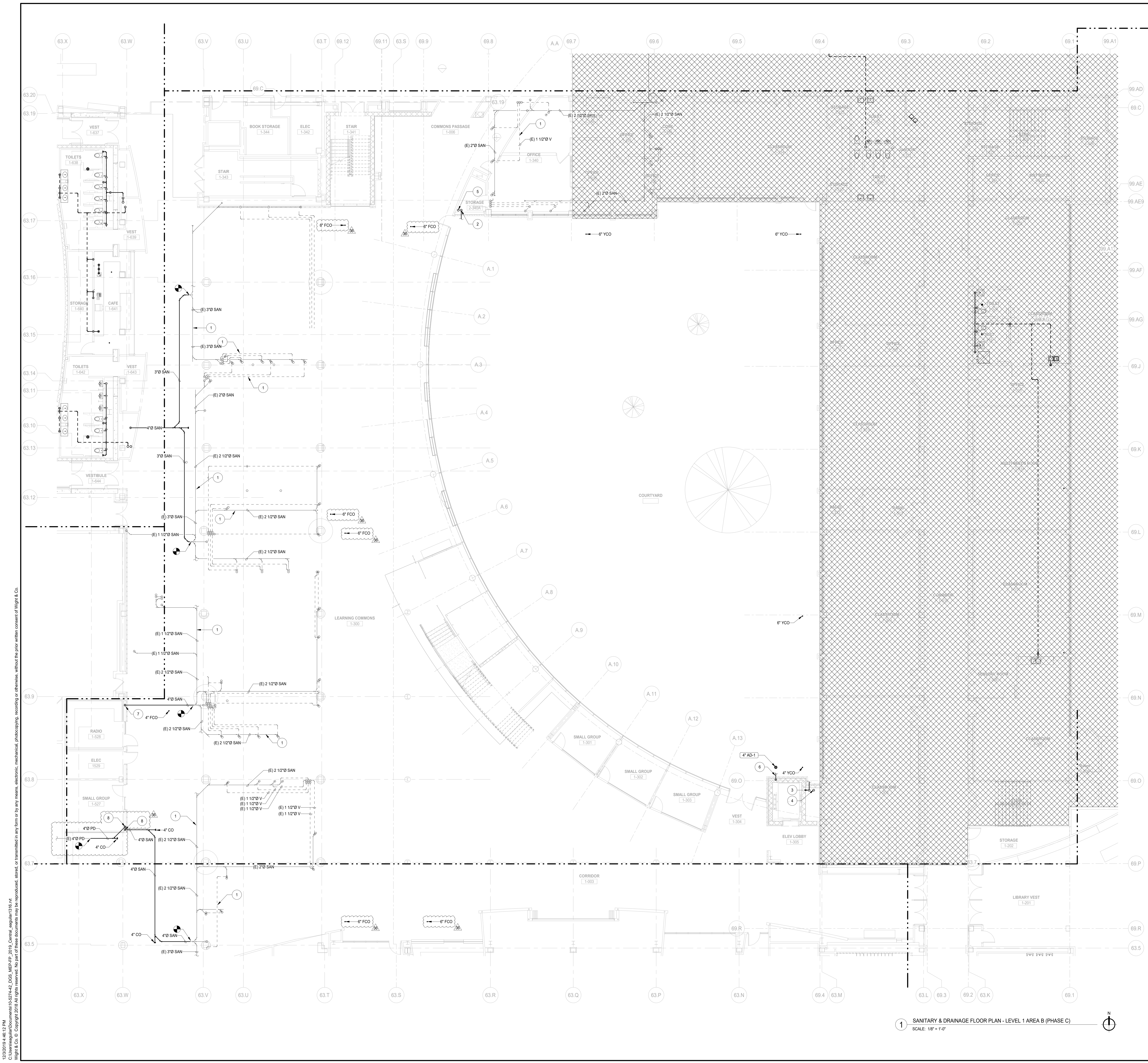
SANITARY & DRAINAGE FLOOR PLAN - UNDERGROUND AREA F

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5274-42
Drawn By:
E. AGUILAR
Sheet:

P1.10F

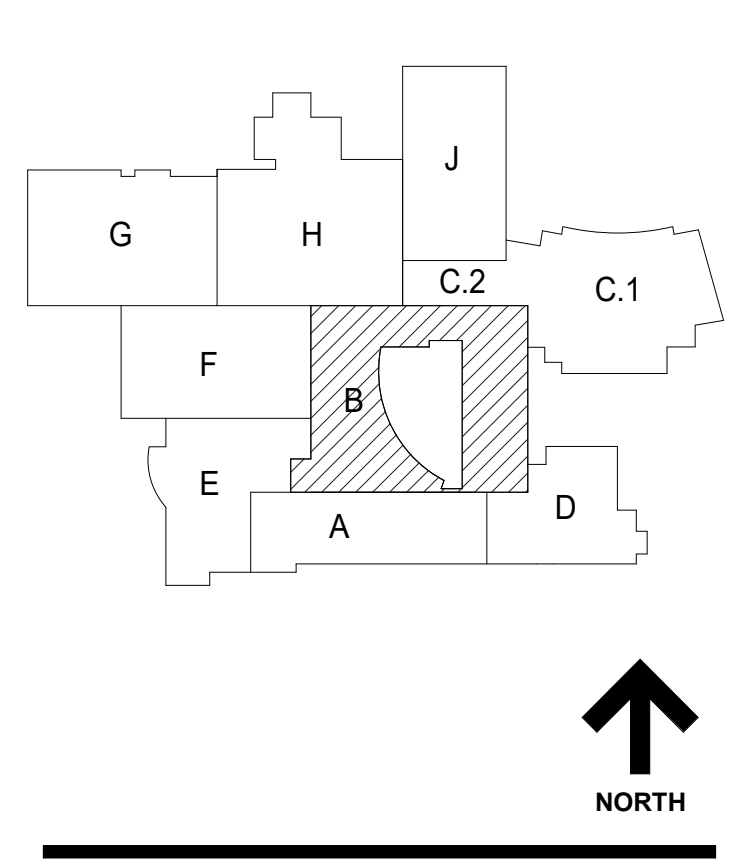
1 SANITARY & DRAINAGE FLOOR PLAN - UNDERGROUND AREA F
SCALE: 1/8" = 1'-0"

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- KEY NOTES**
- 1 ALL EXISTING PIPING IN CEILING TO REMAIN. SHOWN FOR REFERENCE.
 - 2 8\"/>

- GENERAL NOTES**
- 1 REFER TO ACT SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS, WALLS, AND DETAILS OF PENETRATIONS THROUGH THESE WALLS.
 - 2 REFER TO SPECIFICATION SECTION 070500 FOR ACOUSTICAL SEALANT REQUIREMENTS FOR PENETRATIONS OF ACOUSTICALLY SENSITIVE AND ACOUSTICALLY CRITICAL WALLS AND PARTITIONS.
 - 3 REFER TO SPECIFICATION SECTION 220719 FOR PIPE LAGGING REQUIREMENTS FOR PLUMBING PIPING.



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	ISSUED FOR 75% C/D - PHASE C	10.14.2019
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1436 NORFOLK STREET
 DOWNERS GROVE, IL 60516

SANITARY & DRAINAGE FLOOR PLAN - LEVEL 1 AREA B (PHASE C)

Project Number:
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 E. AGUILAR
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P1.11B.c

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1 SANITARY & DRAINAGE FLOOR PLAN - LEVEL 1 AREA B (PHASE C)
 SCALE: 1/8" = 1'-0"

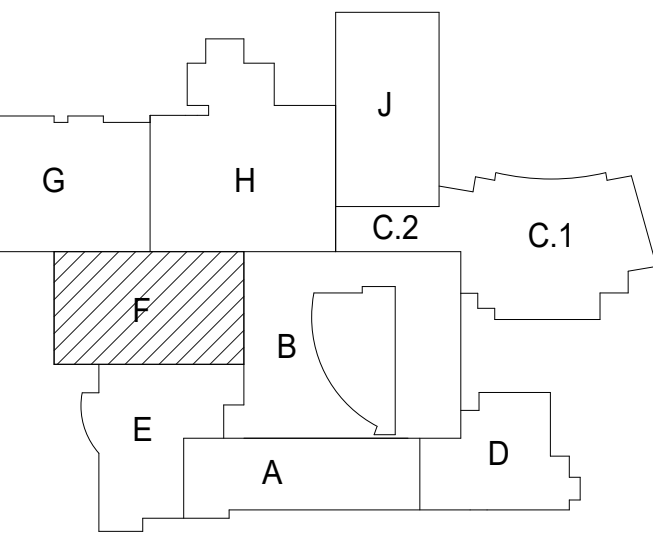


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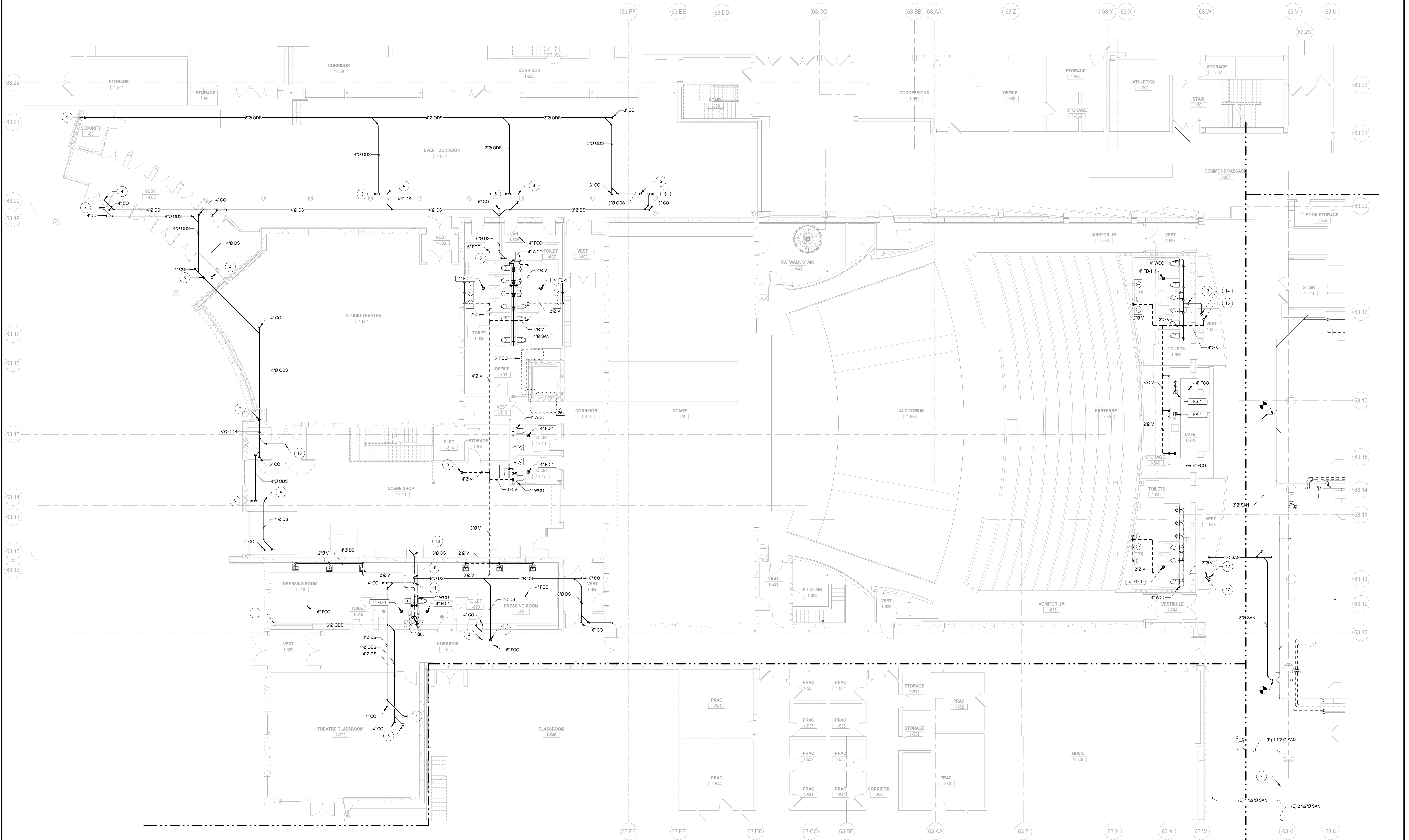
SANITARY & DRAINAGE FLOOR PLAN - LEVEL 1 AREA F

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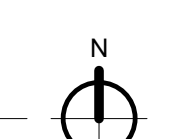
P1.11F

- KEY NOTES**
- 1 6" ODS DN TO DOWNSPOUT NOZZLE WITH BRD SCREEN.
 - 2 8" ODS DN TO DOWNSPOUT NOZZLE WITH BRD SCREEN.
 - 3 4" ODS UP TO ORD-1.
 - 4 4" ODS UP TO RD-1.
 - 5 3" ODS UP TO ORD-1.
 - 6 3" ODS UP TO RD-1.
 - 7 4" ODS DN IN CHASE. FURNISH AND INSTALL WALL CLEANOUT AT BASE OF STACK.
 - 8 6" ODS DN IN CHASE. FURNISH AND INSTALL WALL CLEANOUT AT BASE OF STACK.
 - 9 4" ODS UP.
 - 10 6" ODS DN IN CHASE. 17" ODS DN TO BELOW SLAB. FURNISH AND INSTALL WALL CLEANOUT AT BASE OF STACK.
 - 11 4" ODS DN.
 - 12 4" ODS UP/DN.
 - 13 4" ODS DN.
 - 14 4" ODS UP TO FLOOR ABOVE.
 - 15 4" ODS UP TO FLOOR ABOVE.
 - 16 8" ODS UP TO FLOOR ABOVE.
 - 17 3" ODS UP TO FLOOR ABOVE.
 - 18 6" ODS UP.

- GENERAL NOTES**
- 1 REFER TO ACI SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS, WALLS, AND DETAILS OF PENETRATIONS THROUGH THESE WALLS.
 - 2 REFER TO SPECIFICATION SECTION 072000 FOR ACOUSTICAL SEALANT REQUIREMENTS FOR PENETRATIONS OF ACOUSTICALLY SENSITIVE AND ACOUSTICALLY CRITICAL WALLS AND PARTITIONS.
 - 3 REFER TO SPECIFICATION SECTION 220719 FOR PIPE LAGGING REQUIREMENTS FOR PLUMBING PIPING.



1 SANITARY & DRAINAGE FLOOR PLAN - LEVEL 1 AREA F
SCALE: 1/8" = 1'-0"



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PLUMBING FIXTURE ROUGH-IN SCHEDULE						
TAG	TYPE	SANITARY	VENT	COLD	HOT	NOTES
WC	WATER CLOSET	4"	2"	1"	-	3
LAV	LAVATORY	1 1/4"	1 1/4"	3/8"	3/8"	1, 2, 3
MB	MOP BASIN	3"	1 1/2"	3/4"	3/4"	3
EWC	ELECTRIC WATER COOLER	1 1/2"	1 1/4"	1/2"	-	1, 2, 3
SK	SINK	1 1/2"	1 1/2"	1/2"	1/2"	1, 2, 3
FD	FLOOR DRAIN	4"	2"	-	-	3
HB	HOSE BIB	-	-	3/4"	-	3

NOTES:
1. SANITARY RISER IN WALL UP TO FIXTURE SHALL BE 2" MINIMUM.
2. 1/2" RISER ONLY APPLIES TO FINAL CONNECTION TO FIXTURE. BRANCH PIPE SIZE SHALL BE MIN. 3/4".
3. SIZES SHOWN ARE MINIMUMS. DRAWING SIZES SHOWN AS LARGER SHALL DICTATE ROUGH-IN SIZE.

ELEVATOR PUMP (EPP) SCHEDULE											
TAG	LOCATION	TYPE	CAPACITY	TDH	ELECTRICAL			MANUFACTURER	MODEL	DISCHARGE	NOTES
					HP	RPM	V/PH/Hz				
EPP-1	ELEVATOR L1	SUBMERSIBLE	50 GPM	15	4/10	3450	115/180	ZOELLER	BN152	2"	1
EPP-2	ELEVATOR L2	SUBMERSIBLE	50 GPM	20	1/2	3450	115/180	ZOELLER	BN152	2"	1

NOTES:
1. FURNISH WITH ZOELLER 10-0126 HIGH WATER ALARM.

SUBMERSIBLE PUMP (SP) SCHEDULE																						
TAG	LOCATION	MANUFACTURER	MODEL NUMBER	SERVICE	TYPE	FLOW GPM	HEAD FT	BASIN					CONTROL LEVELS				ELECTRICAL			NOTES		
								MATERIAL	DIMENSIONS	INVERT ELEVATION	OFF IN.	ON IN.	STANBY IN.	ALARM IN.	HP	AMP	VOLT	PHASE	RPM		Hz	
SP-1	STORAGE D-7Z	ZOELLER	J161	THEATER BASEMENT DRAINTILE	DUPLEX SUBMERSIBLE	77	17'	FIBERGLASS	36" DIA. x 60" DEEP	7'	54'	36"	30"	30"	30"	1/2	6.4	208	3	3450	60	1, 2, 3, 4

NOTES:
1. LEVELS ARE MEASURED FROM TOP OF BASIN.
2. ANTI-FLOTTATION FLANGE.
3. HIGH WATER ALARM.
4. AUTOMATIC CONTROLS.

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	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 90% QD - PHASE C	11.01.2019
REV	ISSUE	DATE

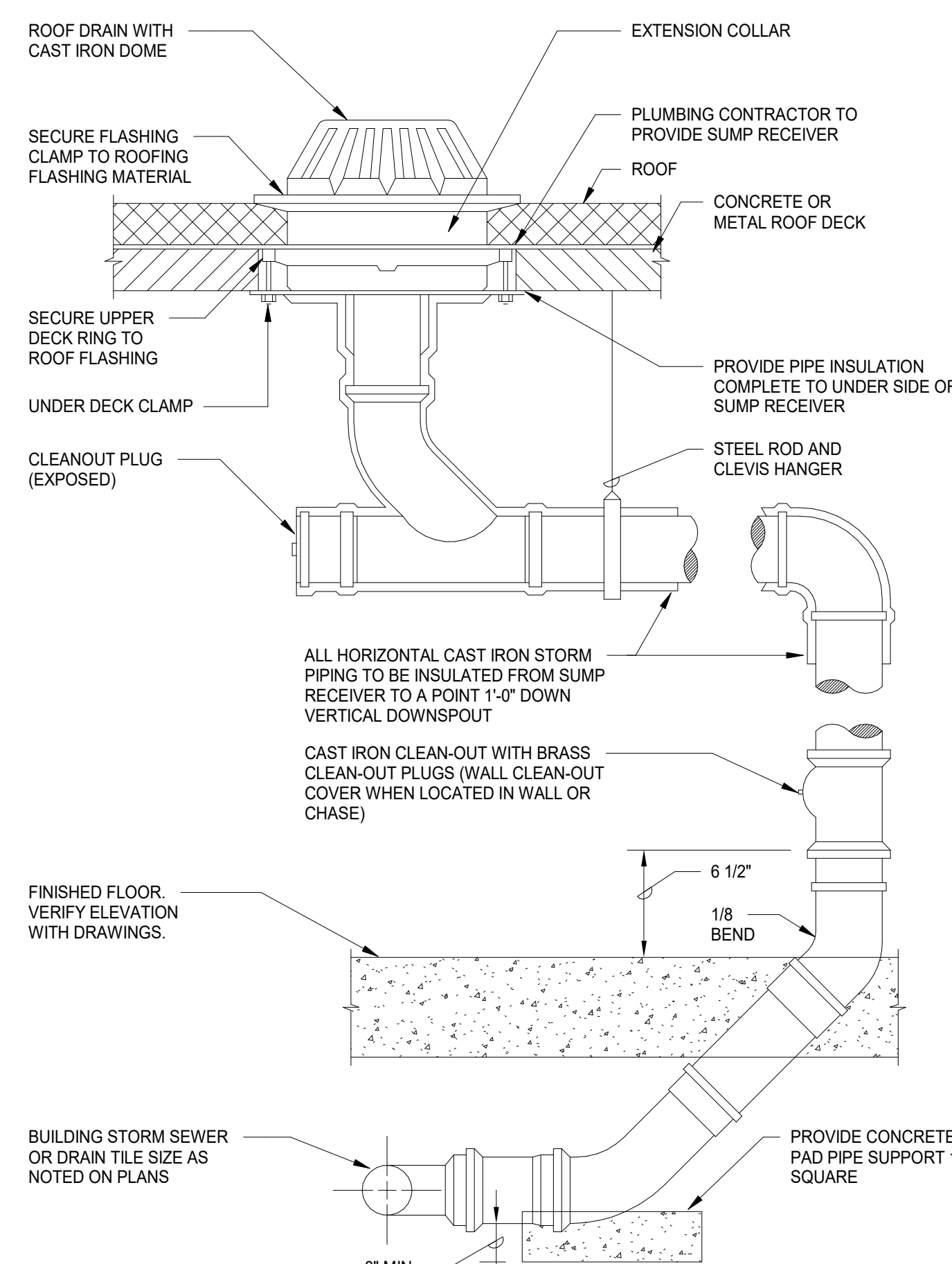
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1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

PLUMBING SCHEDULES

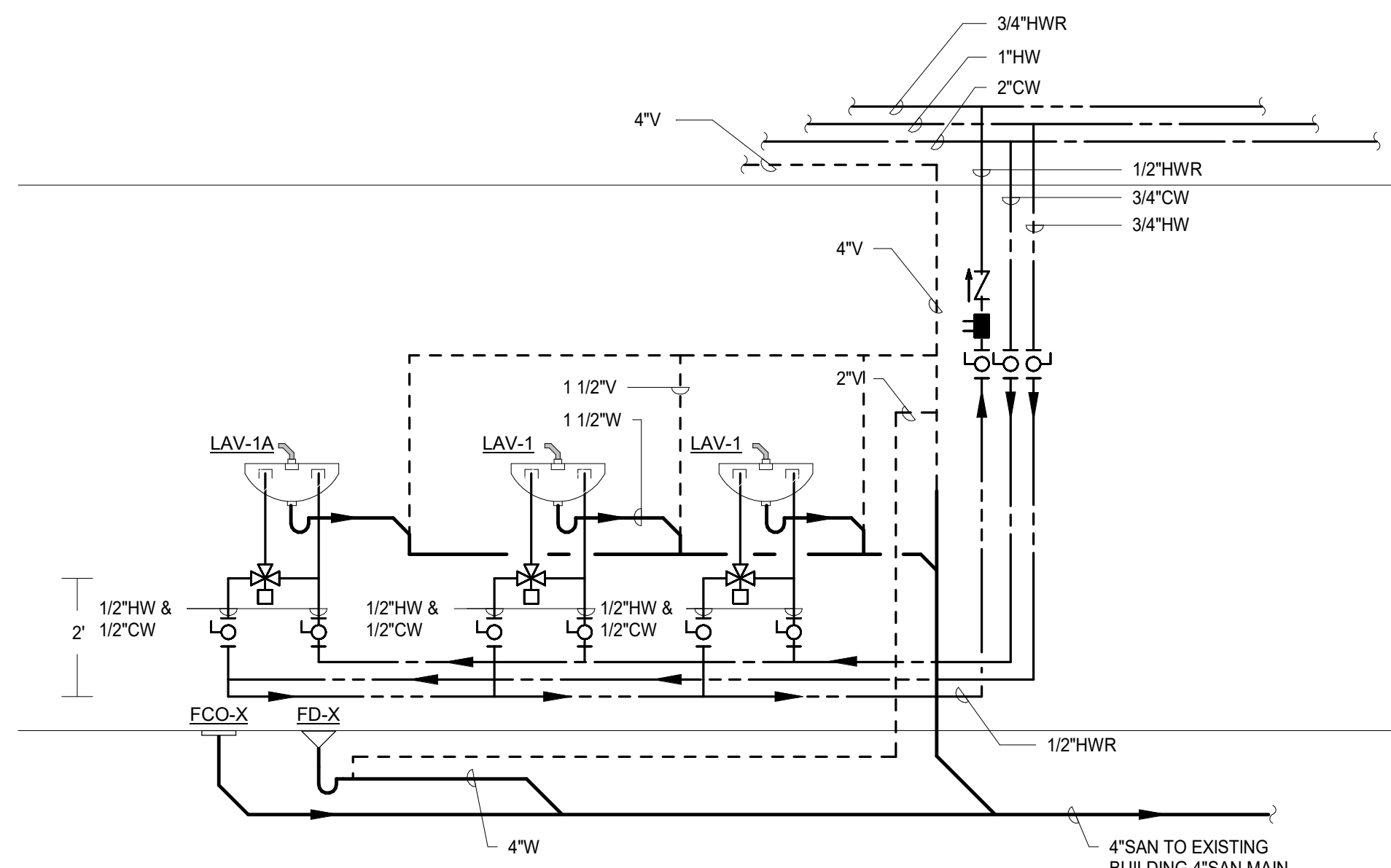
Project Number:
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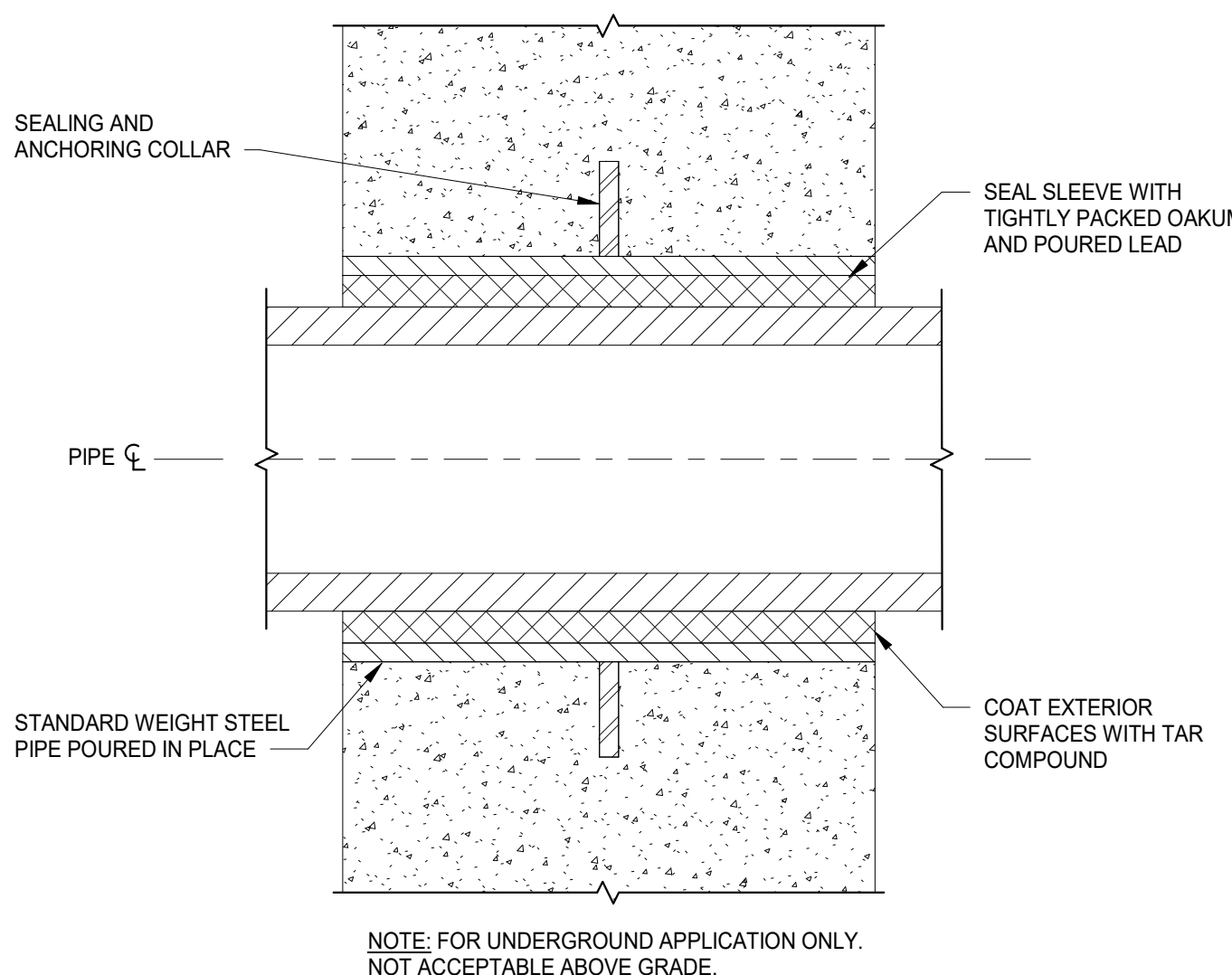
NOTES:
 1. PVC INSTALLATION IS SIMILAR TO CAST IRON PIPING INSTALLATION SHOWN. WHEN PVC IS USED, INSULATE ALL PIPING FOR SOUND DEADENING PURPOSES.

9 ROOF DRAIN DETAIL
 N.T.S.

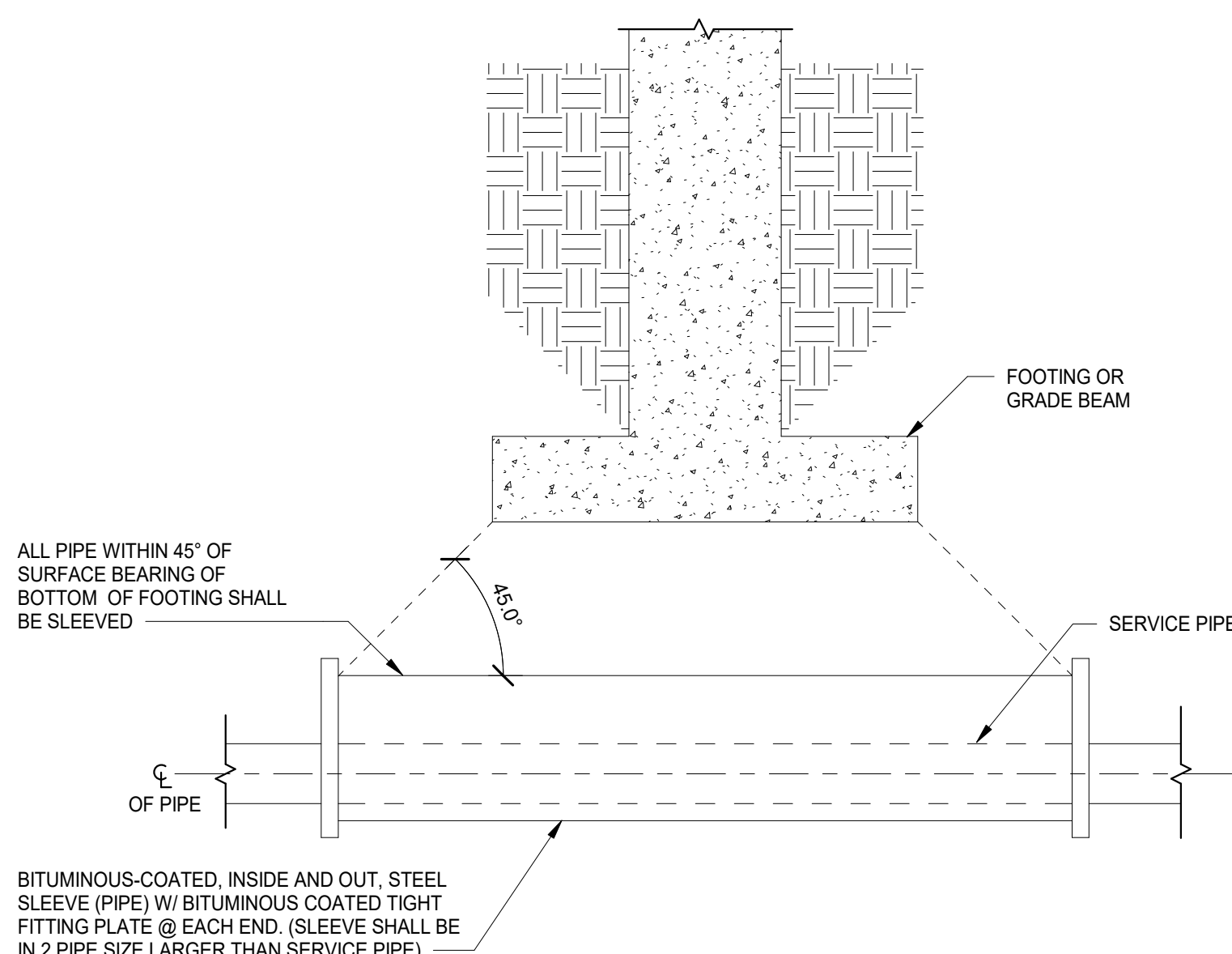


NOMINAL PIPE SIZE (IN)	VOLUME (LIQUID OUNCES PER FOOT LENGTH)	MAX PIPING LENGTH (FEET)	
		PUBLIC LAVATORY FAUCETS	OTHER FIXTURES AND APPLIANCES
1/4"	0.33	6	50
5/16"	.5	4	50
3/8"	.75	3	50
1/2"	1.5	2	43
5/8"	2	1	32
3/4"	3	0.5	21
7/8"	4	0.5	16
1"	5	0.5	13
1 1/4"	8	0.5	8
1 1/2"	11	0.5	6
2" OR LARGER	18	0.5	4

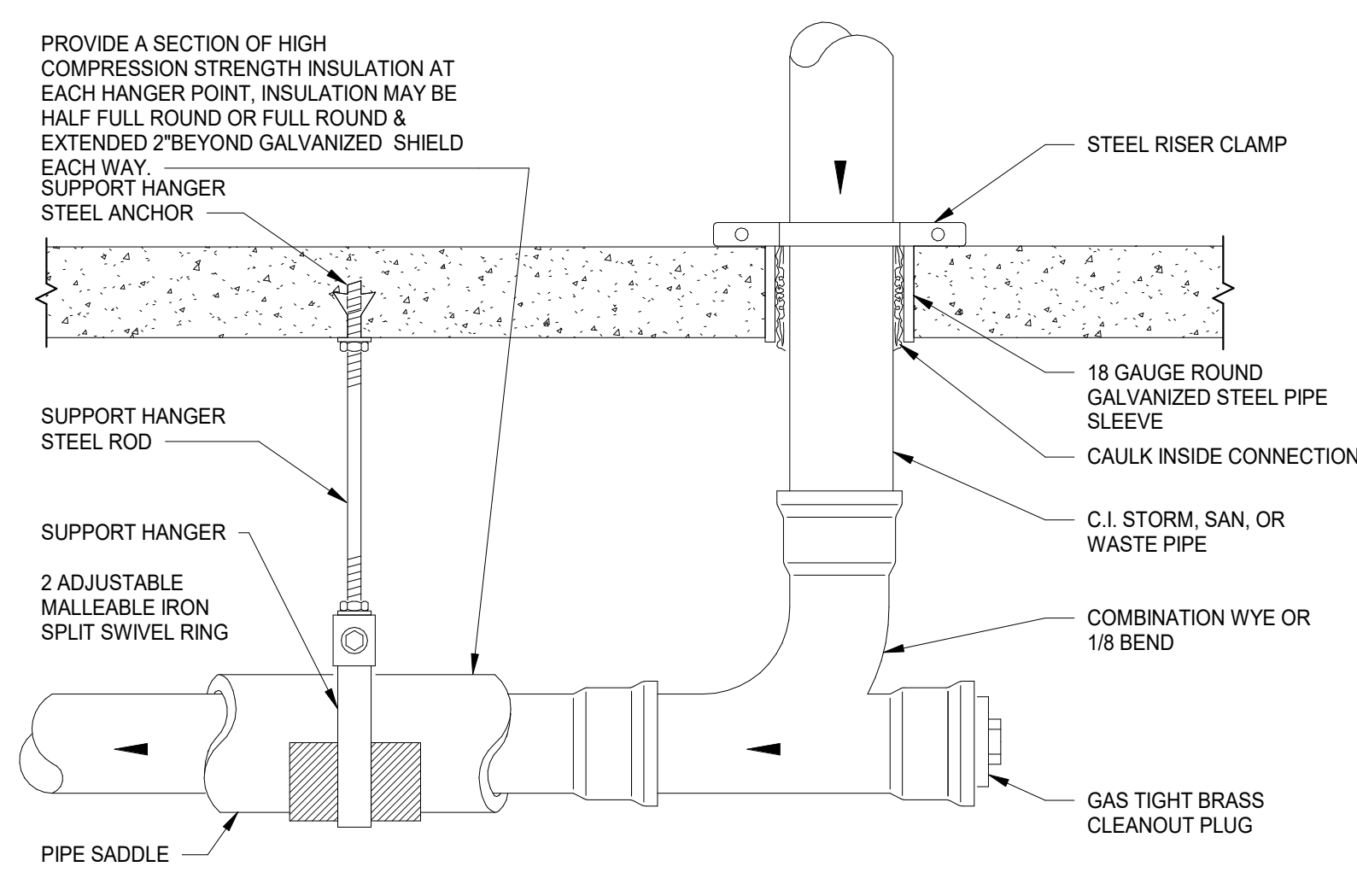
10 TYPICAL HWR PIPING DETAIL
 N.T.S.



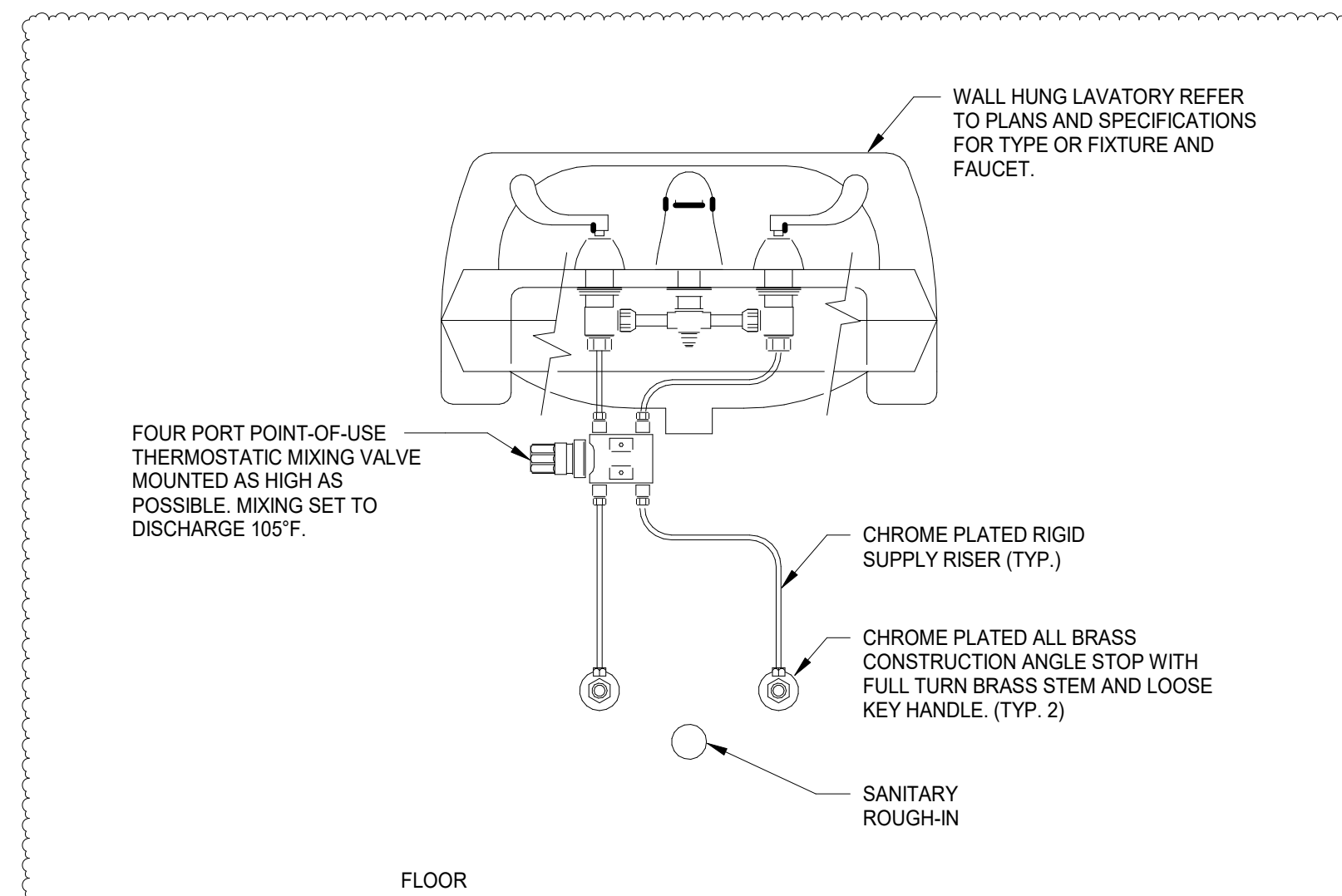
5 PIPE SLEEVE THROUGH EXTERIOR WALLS DETAIL
 N.T.S.



6 BELOW FOOTING/GRADE PIPE SLEEVE DETAIL
 N.T.S.

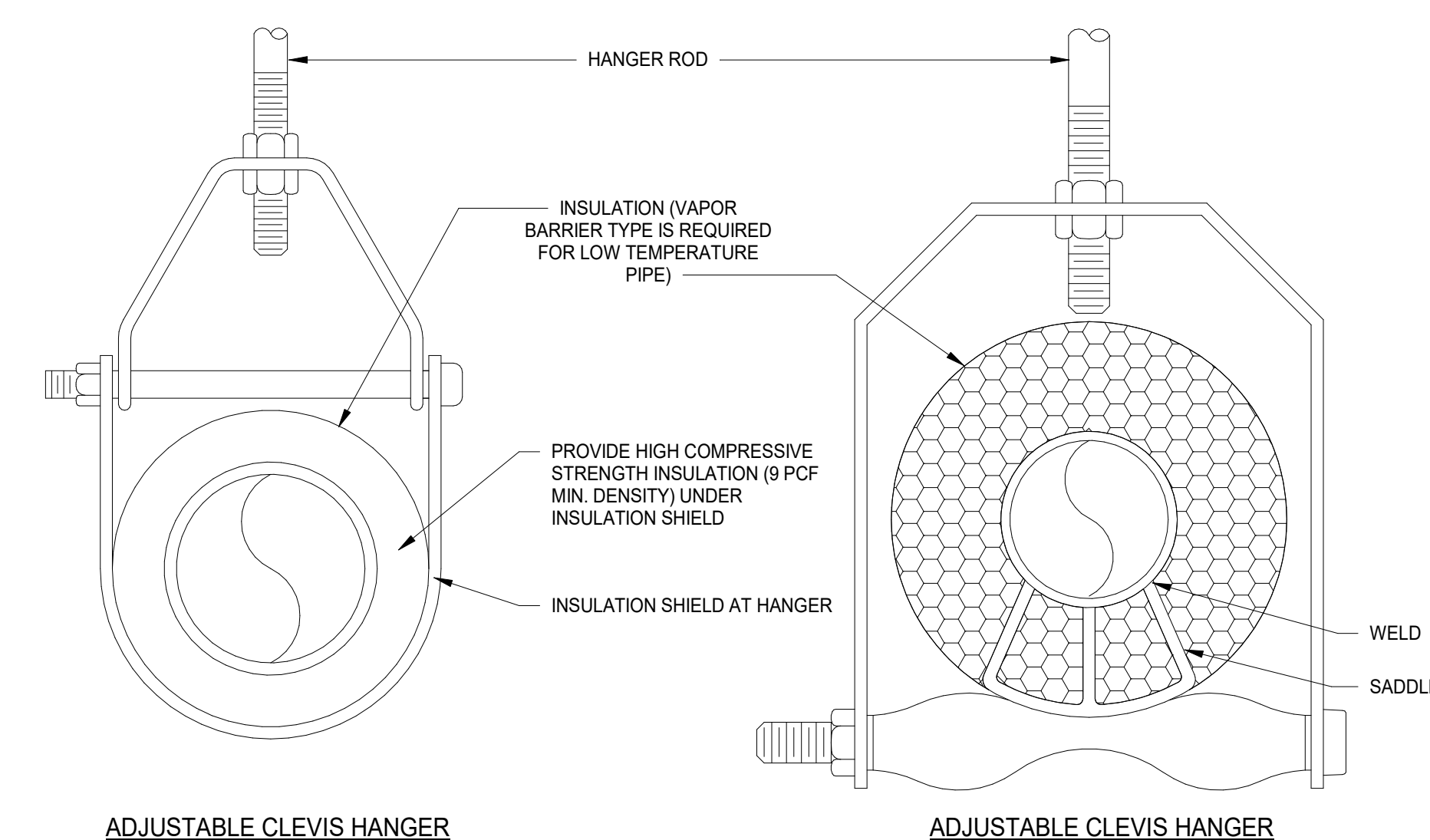


7 TYPICAL SUSPENDED CLEAN-OUT DETAIL
 N.T.S.



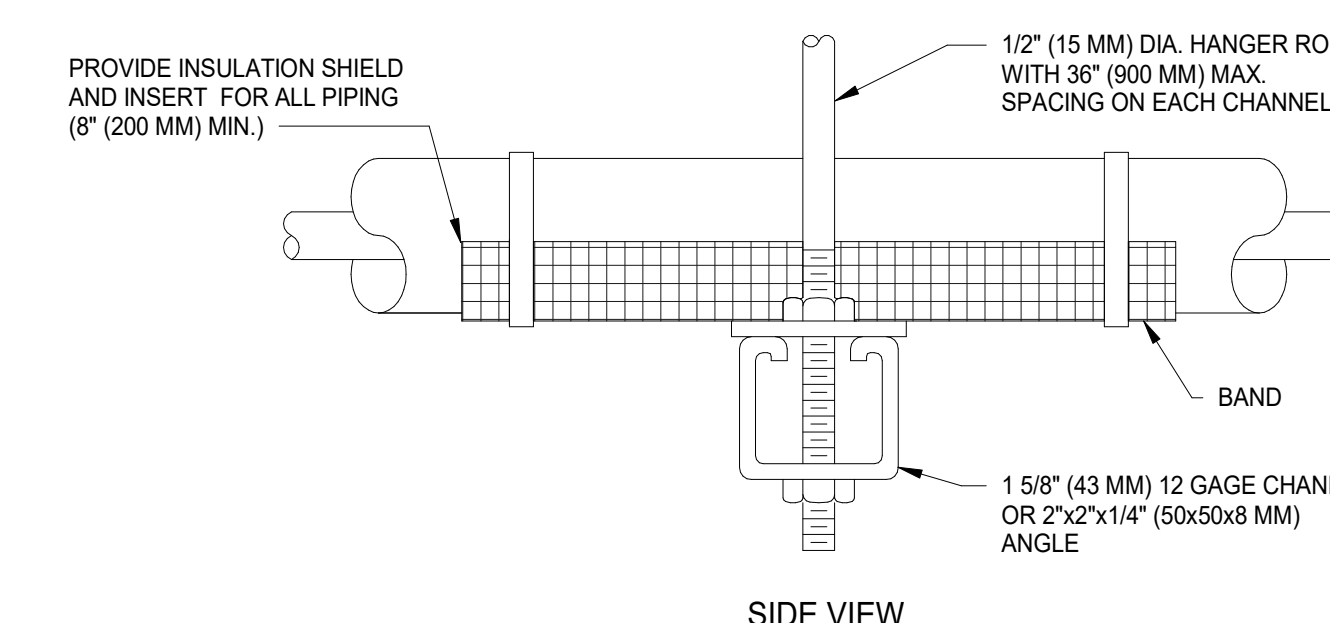
NOTES:
 1. SEE ARCHITECTURAL DRAWINGS FOR LAVATORY MOUNTING HEIGHTS.
 2. P-TRAP-TAIL, PEELE, AND WASTE ARM NOT SHOWN FOR CLARITY.
 3. FOR HANDICAP LAVATORY INSTALLATION ALL WASTE PIPING UNDER SINK SHALL BE WRAPPED WITH PROTECTIVE PIPE COVERS.
 4. FOR HANDICAP LAVATORY INSTALLATION ANGLE STOP VALVES AND SUPPLY RISERS SHALL BE WRAPPED WITH PROTECTIVE PIPE COVERS. SUPPLY RISERS SHALL BE WRAPPED FROM STOP VALVES TO MIXING VALVE. ENDS OF PROTECTIVE WRAP SHALL BE CUT SQUARE AND TIE WRAPPED CLOSED.

8 LAVATORY MIXING VALVE DETAIL
 N.T.S.



ADJUSTABLE CLEVIS HANGER

ADJUSTABLE CLEVIS HANGER



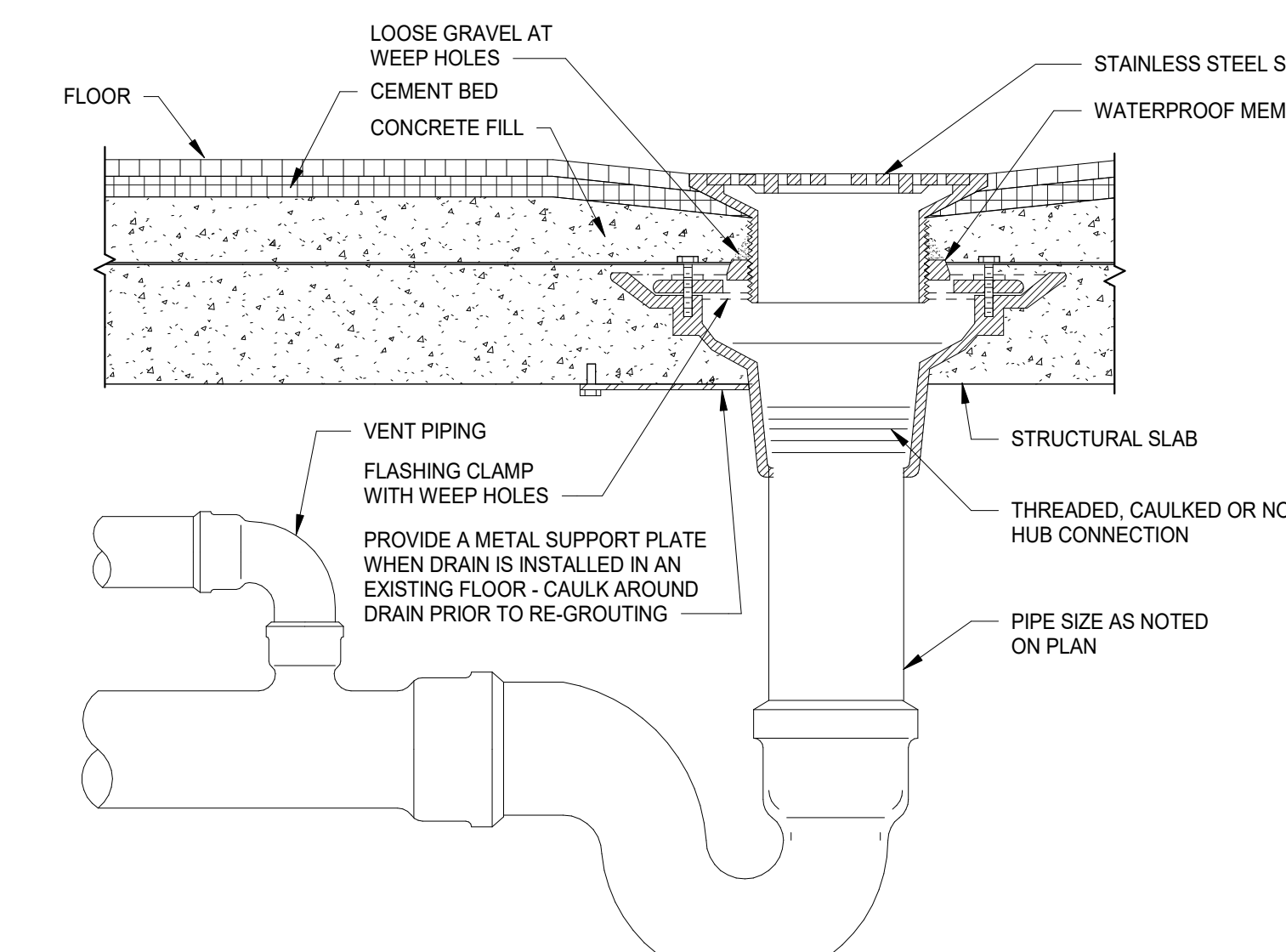
SIDE VIEW

TRAPEZE HANGER FOR UP TO 100 LB UNIFORM LOAD

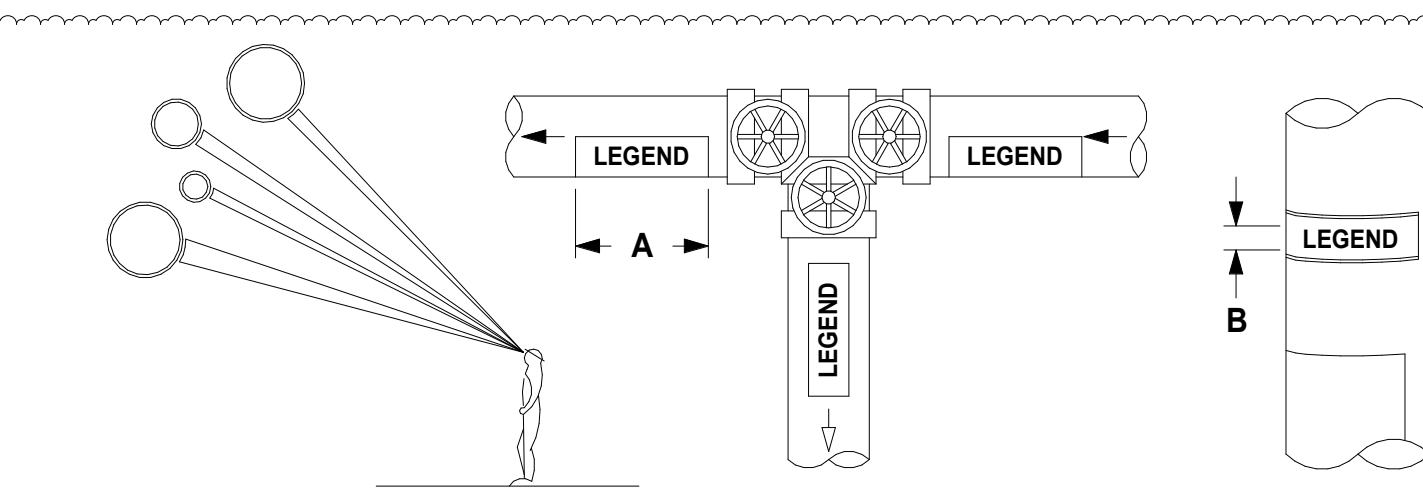
NOMINAL SIZE (N)	MAXIMUM PIPE/TUBING SUPPORT SPACING																	
	THR U34	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
PIPE (FT.)	7	7	7	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32
TUBING (FT.)	5	6	7	8	8	9	10	12	13	14	16							

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

1 TYPICAL PIPE HANGER DETAIL
 N.T.S.



2 TYPICAL FLOOR DRAIN DETAIL
 N.T.S.

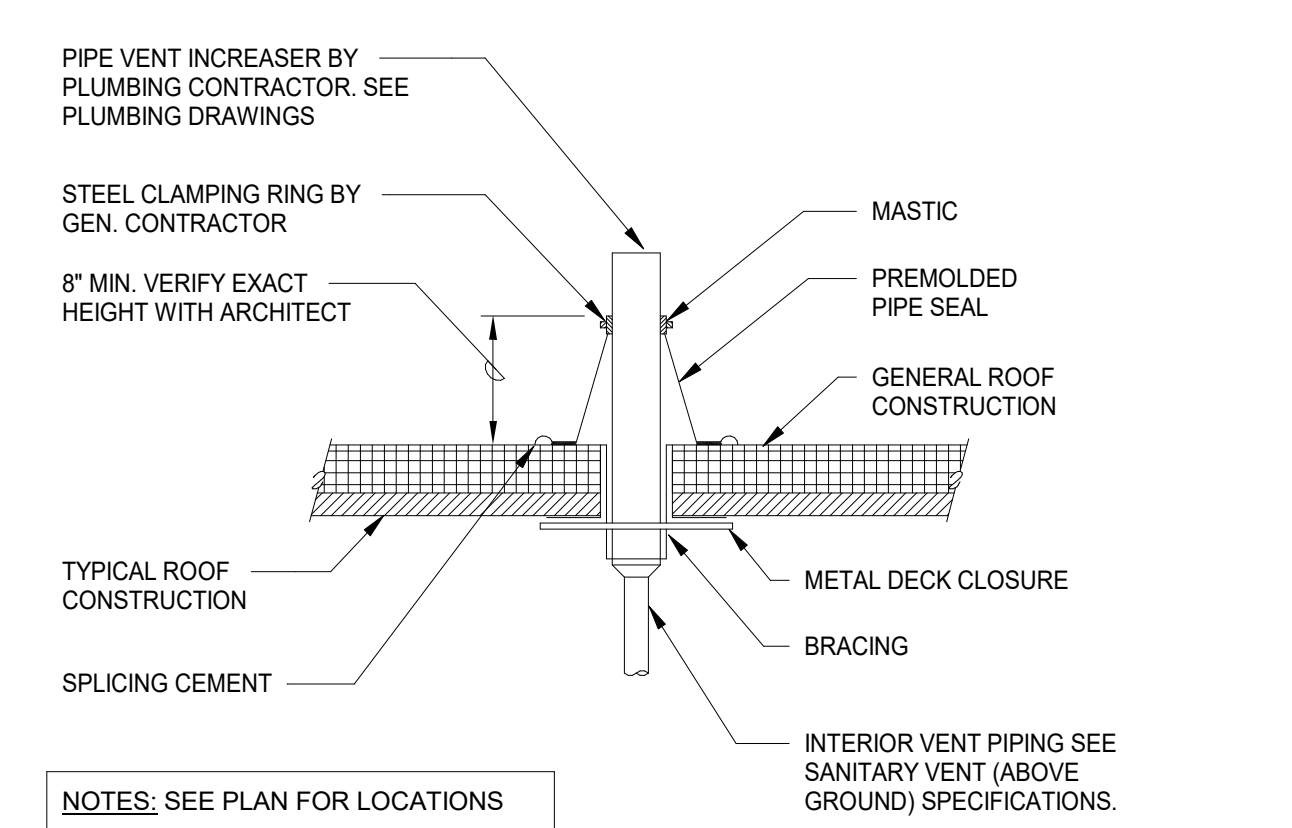


NOTE:
 IDENTIFICATION MARKERS OR STRIPS TO BE PLACED ON ALL EXPOSED COVERED AND UNCOVERED PIPES AT 50' INTERVALS AND AT ALL VALVES AND BRANGES AND ON BOTH SIDES OF WALLS WHERE PIPES PASS THROUGH SAME. ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATING DIRECTION OF FLOW.

SIZE OF LEGEND LETTERS		
OUTSIDE DIAMETER OF PIPE OF COVERING	LENGTH OF COLOR FIELD A	SIZE OF LETTERS B
3/4" TO 1-1/4"	8"	1/2"
1-1/2" TO 2"	8"	3/4"
2-1/2" TO 3"	12"	1-1/4"
3" TO 4"	12"	1-1/2"
4" TO 6"	24"	2-1/2"
OVER 6"	36"	3-1/2"

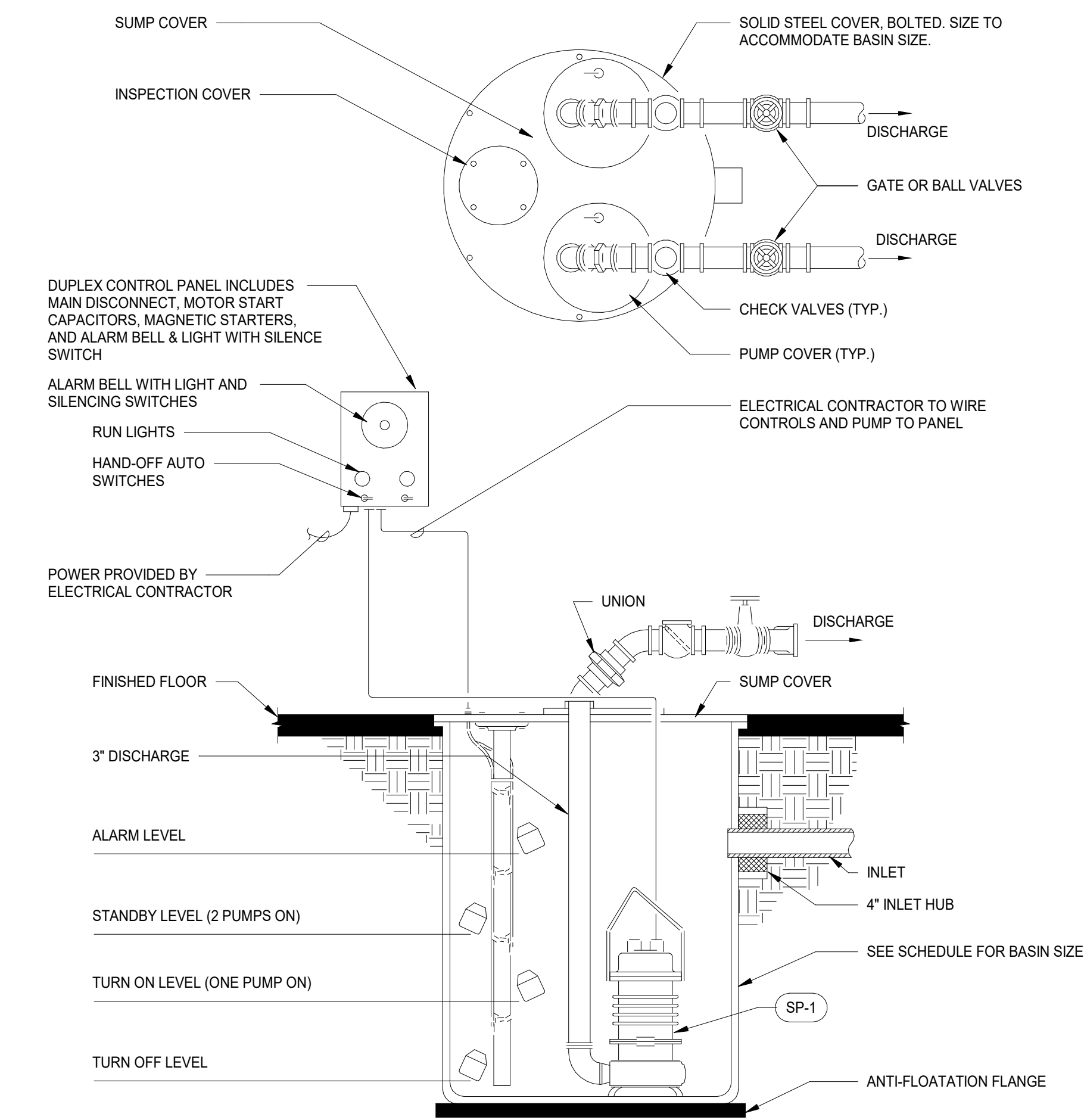
SERVICE	BACKGROUND OR COLOR BAND	IDENTIFICATION MARKER
CITY WATER	GREEN	WHITE ON GREEN
DOMESTIC COLD WATER	GREEN	WHITE ON GREEN
DOMESTIC HOT WATER	YELLOW	BLACK ON YELLOW
DOMESTIC HOT WATER RECIRC.	YELLOW	BLACK ON YELLOW
PLUMBING VENT	GREEN	WHITE ON GREEN
SANITARY DRAIN	GREEN	WHITE ON GREEN
STORM WATER	GREEN	WHITE ON GREEN

3 TYPICAL IDENTIFICATION MARKERS
 N.T.S.

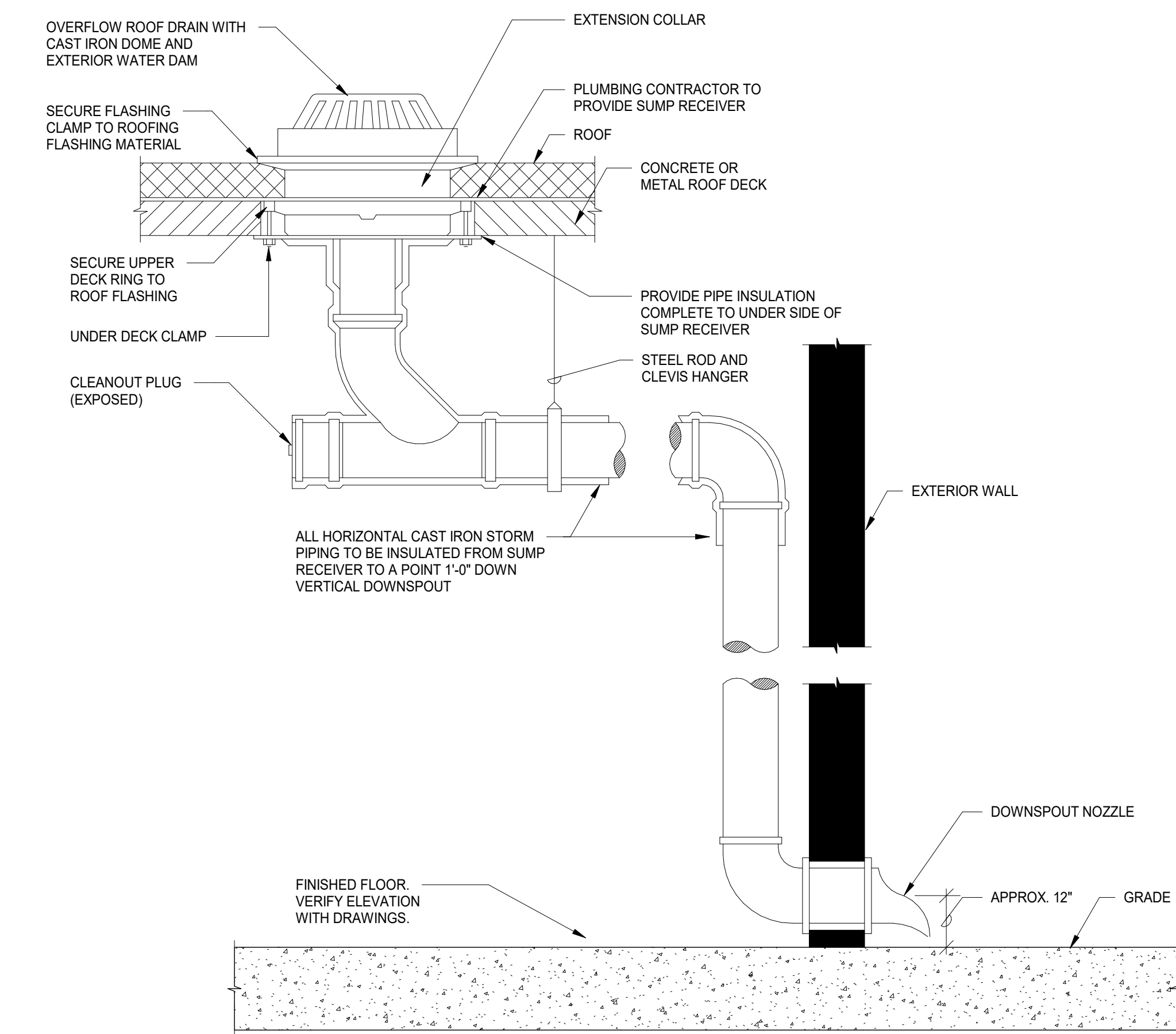


4 PLUMBING VENT THROUGH ROOF (VTR) DETAIL
 N.T.S.

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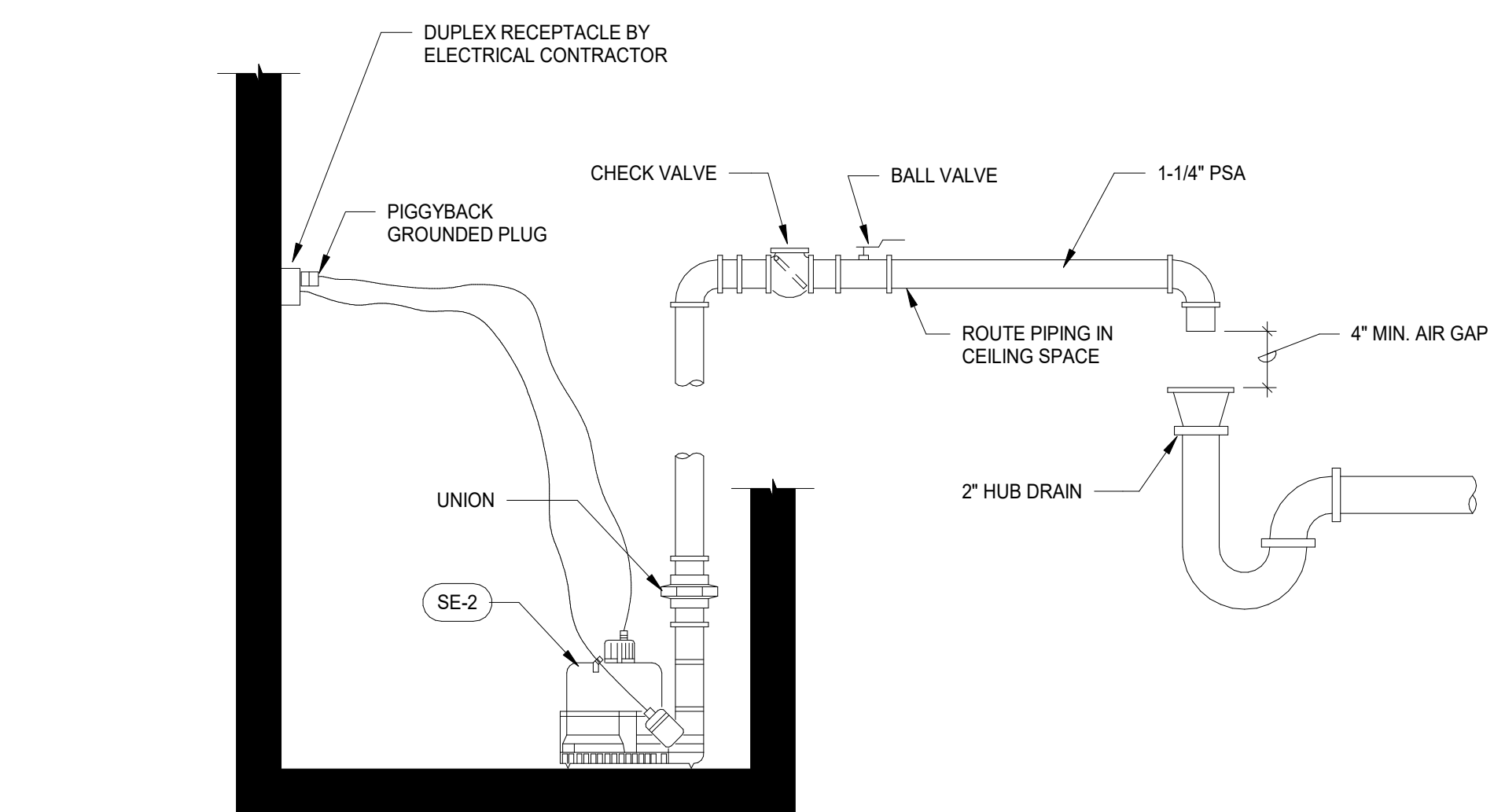


4 DUPLEX STORM SUMP PUMP DETAIL
N.T.S.

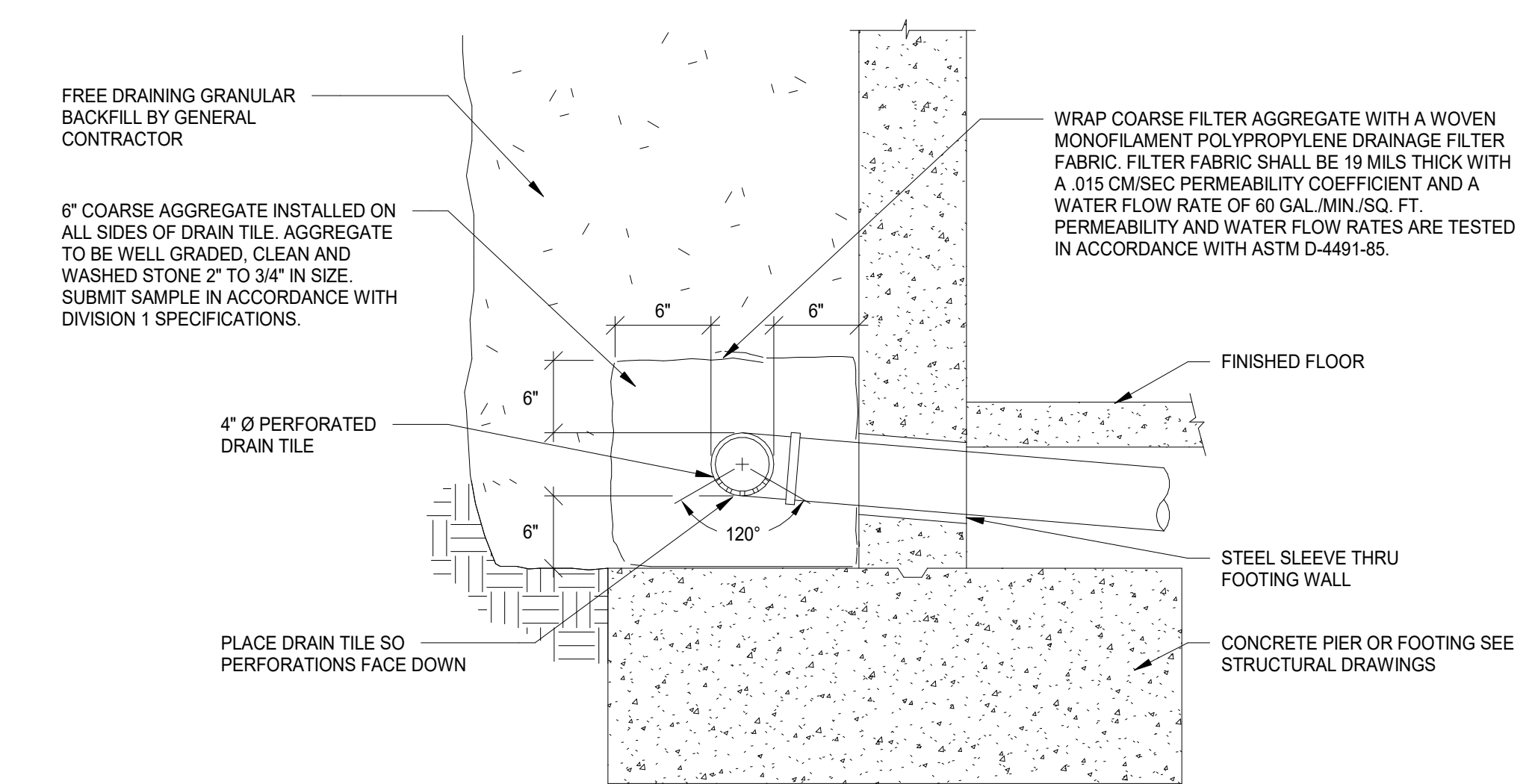


NOTES:
1. PVC INSTALLATION IS SIMILAR TO CAST IRON PIPING INSTALLATION SHOWN. WHEN PVC IS USED, INSULATE ALL PIPING FOR SOUND DEADENING PURPOSES.

1 OVER FLOW ROOF DRAIN DETAIL
N.T.S.



2 ELEVATOR PIT SUBMERSIBLE PUMP DETAIL
N.T.S.

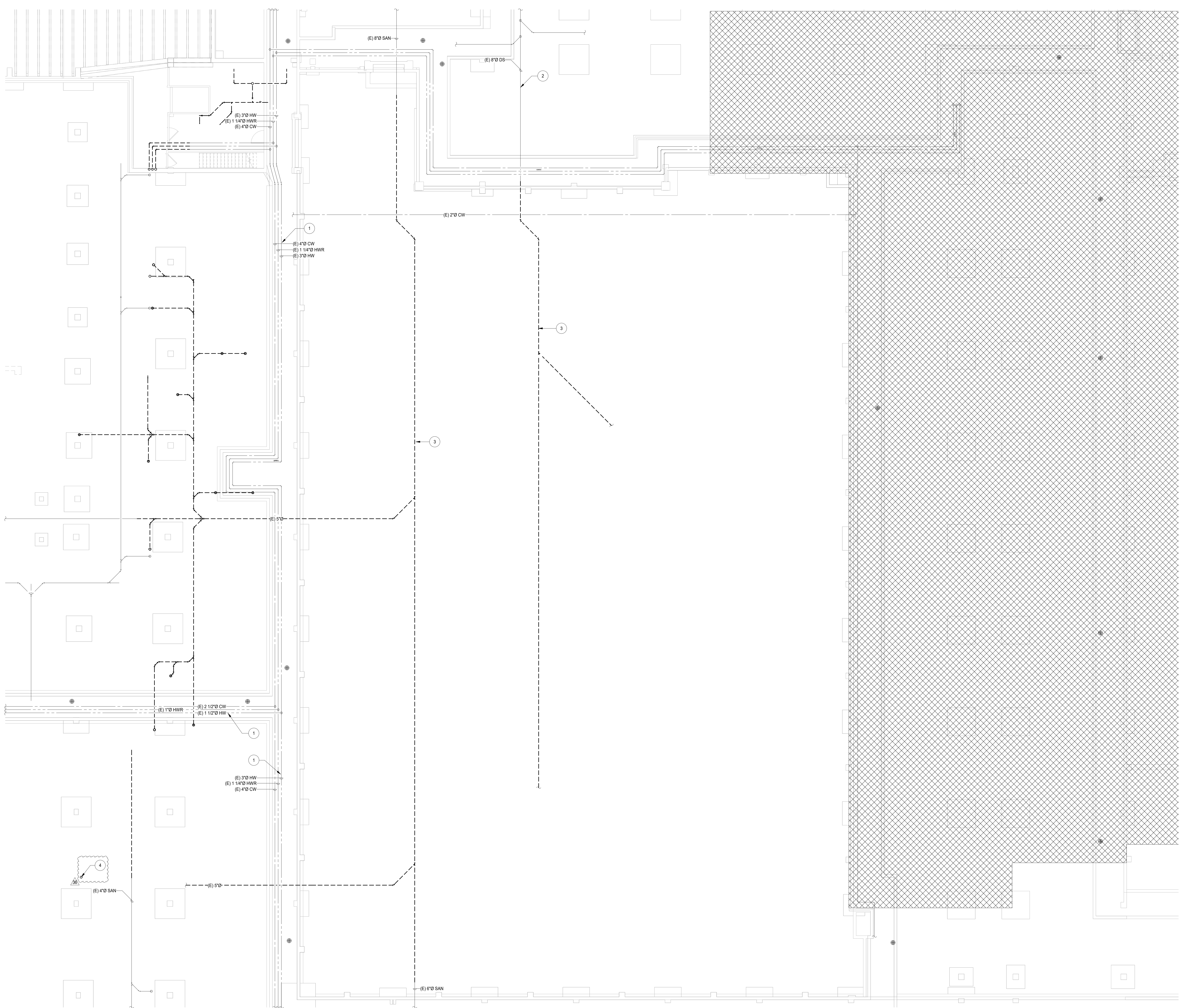


NOTES:
1. ALL FITTINGS, TRANSITIONS, AND CLEANOUT EXTENSIONS SHALL BE MADE WITH UNPERFORATED CAST IRON PIPE WITH VIT. CLAY TO CAST IRON PIPE ADAPTERS.
2. DRAIN TILE MAX. SLOPE OF 1/8" PER 10' LINEAR FEET.
3. REMOVE ALL CONSTRUCTION DEBRIS, FOREIGN OBJECTS AND/OR LARGE STONES FROM EXCAVATION WHICH MAY DAMAGE OR DISLODGE DRAIN TILE PIPE.

3 DRAIN TILE INSTALLATION DETAIL
N.T.S.

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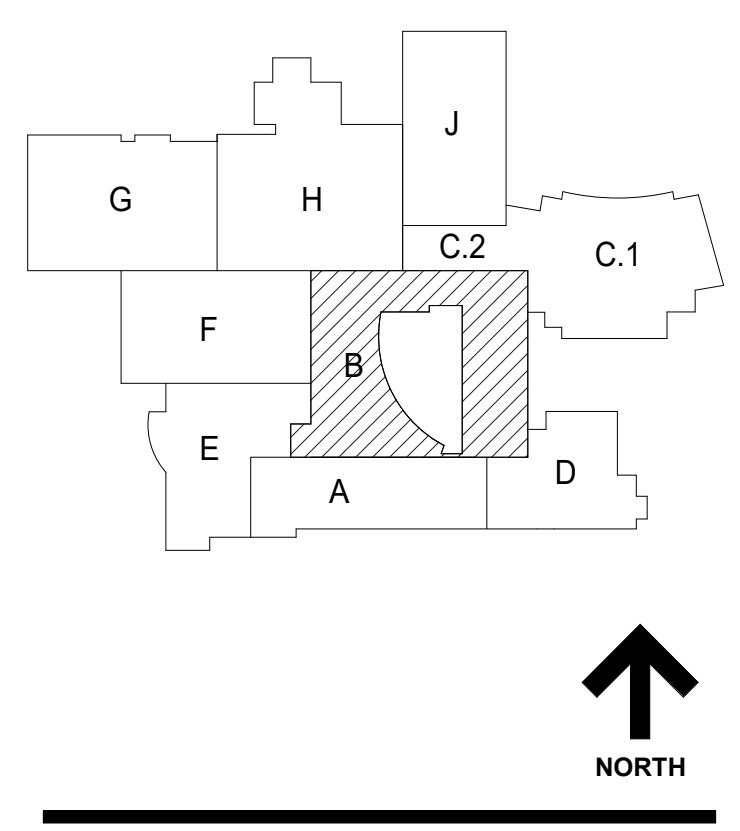


- KEY NOTES**
- 1 ALL EXISTING UNDERGROUND WATER DISTRIBUTION PIPING TO REMAIN SHOWN FOR REFERENCE.
 - 2 EXISTING 8\"/>



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REV	ISSUE	DATE

MFP IMPLEMENTATION - SOUTH

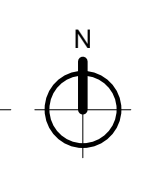
1436 NORFOLK STREET
 DOWNERS GROVE, IL 60516

PLUMBING DEMOLITION - LOWER LEVEL AREA B (PHASE C)

Project Number:
 5274-42
 Drawn By:
 E. AGUILAR
 Sheet:

PD1.10B.c

1 PLUMBING DEMOLITION - LOWER LEVEL AREA B (PHASE C)
 SCALE: 1/8" = 1'-0"

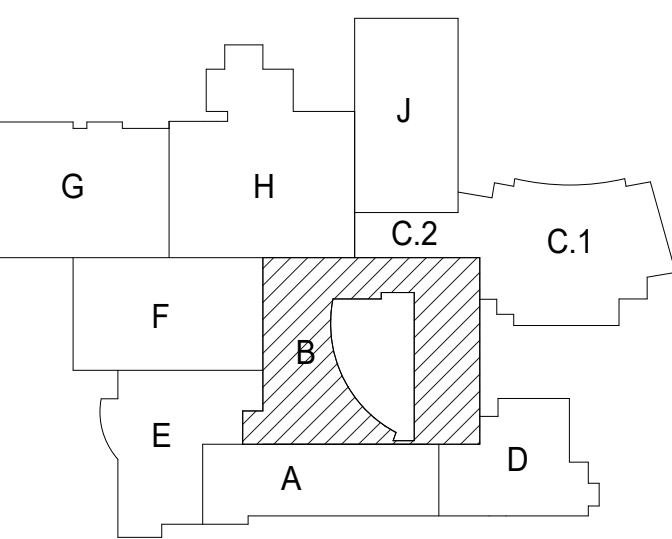




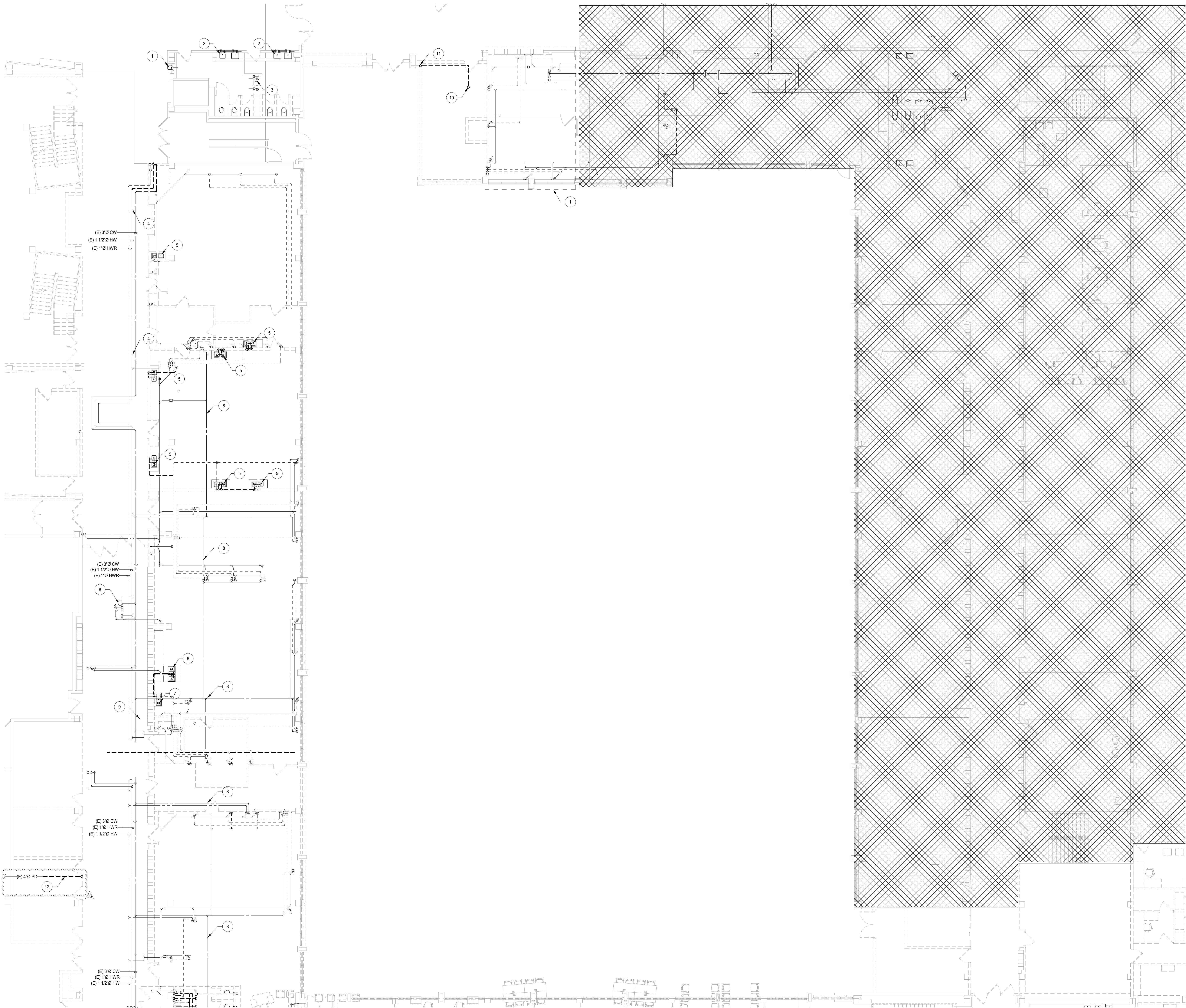
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DISTRICT 99

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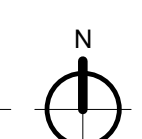
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Darien, IL 60561
P 630.969.7000
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- KEY NOTES**
- EXISTING PLUMBING PIPING, FIXTURES, EQUIPMENT, ETC. TO REMAIN.
 - EXISTING LAVATORIES AND ASSOCIATED PIPING IN CHASE TO BE REMOVED.
 - EXISTING URINALS AND ASSOCIATED PIPING IN CHASE TO BE REMOVED.
 - PREPARE WATER DISTRIBUTION PIPING FOR NEW CONNECTIONS.
 - EXISTING DOUBLE BOWL SINKS AND ASSOCIATED PIPING TO BE REMOVED.
 - EXISTING SINGLE BOWL SINKS AND ASSOCIATED PIPING TO BE REMOVED.
 - EXISTING SERVICE SINK, SOLIDS INTERCEPTOR AND ASSOCIATED PIPING TO BE REMOVED.
 - ALL EXISTING PIPING IN CEILING TO REMAIN, SHOWN FOR REFERENCE.
 - EXISTING 1/2" CW, 1/2" HW TO BE CAPPED AT MAIN.
 - REMOVE EXISTING ROOF DRAIN AND ASSOCIATED DS PIPING SHOWN DASHED.
 - REMOVE EXISTING DS PIPING DOWN TO CRAWL TUNNEL AND CAP AND ABANDON.
 - REMOVE EXISTING PLUMBING PIPING, VALVING, INSULATION, HANGERS, ETC. SHOWN DASHED.



1 PLUMBING DEMOLITION - LEVEL 1 AREA B (PHASE C)
SCALE: 1/8" = 1'-0"



**NOT FOR
CONSTRUCTION**

36	ISSUED FOR ADDENDUM 2 - BCB	12.04.2019
	ISSUED FOR BID GROUP B - PHASE C	11.05.2019
	ISSUED FOR 90% CD - PHASE C	11.01.2019
	ISSUED FOR 75% CD - PHASE C	10.14.2019
	ISSUED FOR 50% CD - PHASE C	10.02.2019
	ISSUED FOR 25% CD - PHASE C	08.30.2019
	ISSUED FOR 100% DD	07.12.2019
REV	ISSUE	DATE

**MFP
IMPLEMENTATION -
SOUTH**

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

**PLUMBING DEMOLITION -
LEVEL 1 AREA B (PHASE
C)**

Project Number:
5274-42
Drawn By:
E. AGUILAR
Sheet:

PD1.11B.c

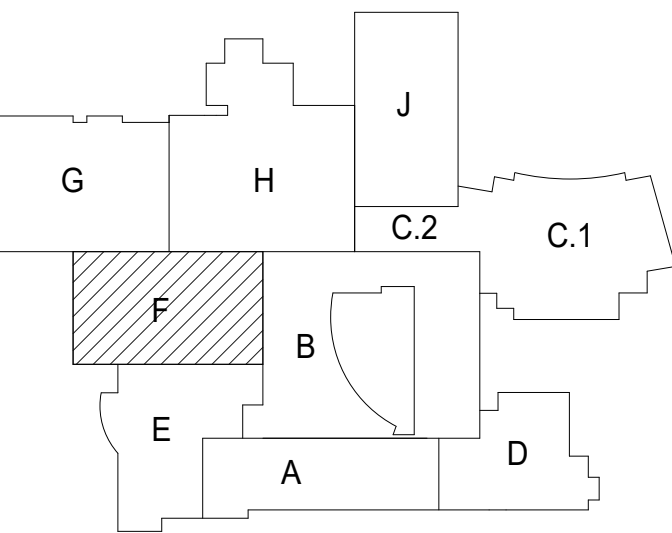
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**NOT FOR
CONSTRUCTION**

36	ISSUED FOR ADDENDUM 2 - BGS	12.04.2019
	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 90%CD - PHASE C	11.01.2019
	ISSUED FOR 75%CD - PHASE C	10.14.2019
	ISSUED FOR 50%CD - PHASE C	10.02.2019
	ISSUED FOR 25%CD - PHASE C	08.30.2019
REV	ISSUE	DATE

**MFP
IMPLEMENTATION -
SOUTH**

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

**LOWER LEVEL POWER
PLAN AREA F**

Project Number:
5274-42
Drawn By:
Author
Sheet:

E2.00F-1c

GENERAL NOTES

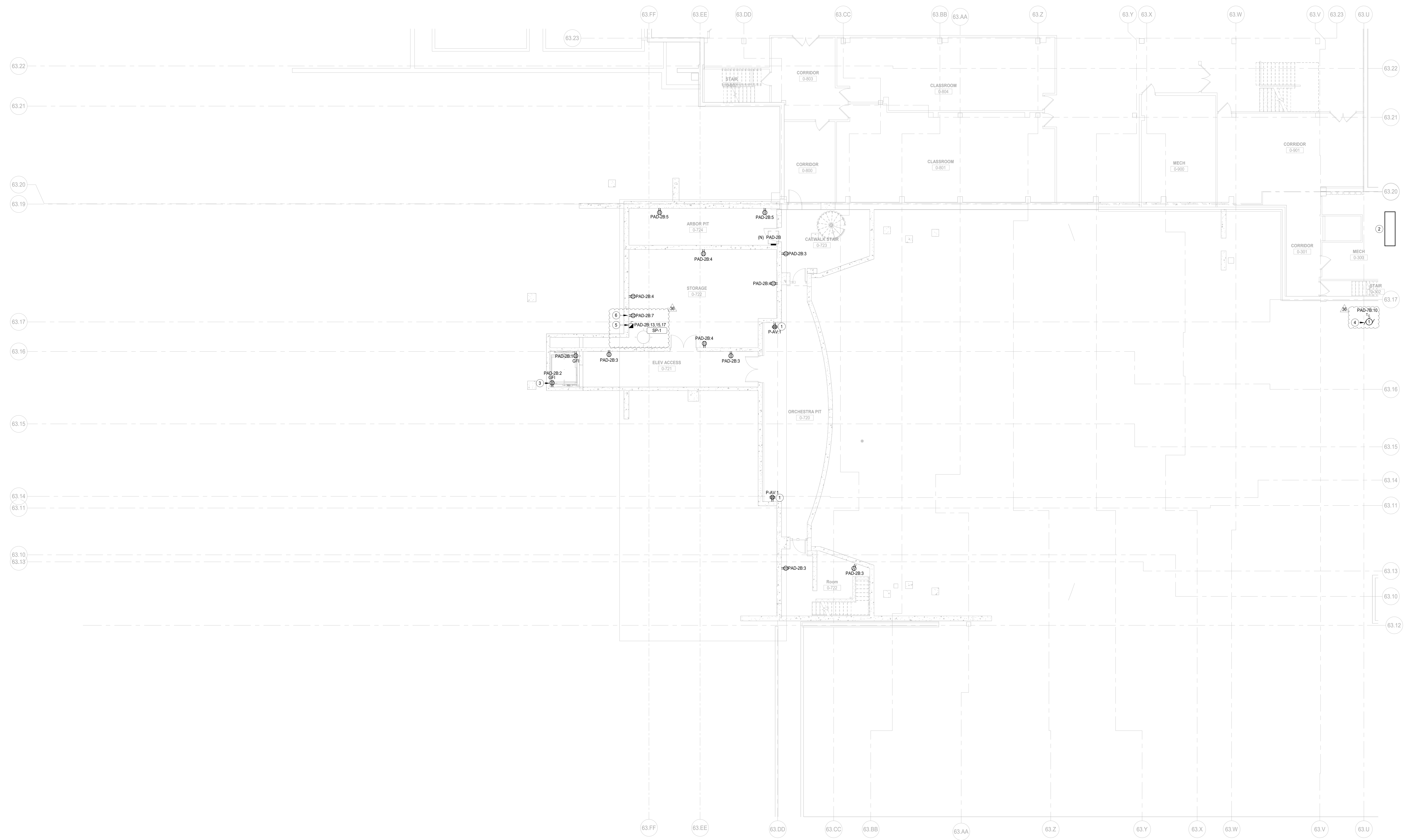
1. THESE NOTES APPLICABLE TO ALL POWER PLANS
2. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HORIZONTAL AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4" 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE LINE RECEPTACLES ONLY.
3. ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 250A 1-POLE CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, SECURITY, AUDIOVISUAL, VOICE, AND DATA CABLING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILING.
5. BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
6. CIRCUIT NUMBERS, WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
7. UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
8. REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
9. ANY ELECTRICAL DEVICES ON NEW WALLS SHALL BE FLUSH MOUNTED. NO WIREMOLDS ARE ACCEPTABLE ON NEW WALLS UNLESS NOTED OTHERWISE.
10. VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.
11. LOW VOLTAGE WIRING SHALL NOT LIE ON TOP OF CEILING GRID SYSTEM. WIRING SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 5 FEET BY UTILIZING J-hooks SUPPORTED BY STRUCTURAL MEMBERS. WIRING SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS.
12. PROVIDE PULL BOXES BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.28 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) BETWEEN PULL POINTS.
13. SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
14. CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE "SLAB RATED" FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM. WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE A DEDICATED NEUTRAL FOR EACH UNGROUNDED CONDUCTOR.
15. ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED FOR ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTORS WORK.
16. IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWINGS TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LIGHTING FIXTURES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MOVED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.
17. THE CONTRACTOR SHALL VISIT THE BUILDING BEFORE SUBMITTING HIS BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRE TO ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LIGHTING FIXTURES, RECEPTACLES, EQUIPMENT DEVICES, ETC. PULL OUT ALL UNUSED CONDUCTORS AND CABLES. REMOVE ALL ABANDONED CONDUIT, ELECTRICALLY DISCONNECT AIR HANDLING UNITS, ELECTRICAL WATER HEATERS, AND EQUIPMENT FOR REMOVAL BY OTHERS. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
19. REFER TO THE MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ALL MECHANICAL EQUIPMENT THAT IS TO BE ELECTRONICALLY DISCONNECTED OR REMOVED.
20. THIS CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL DOWN STREAM ELECTRICAL DEVICES AFFECTED BY THE DEMOLITION SHALL BE IN FULL OPERATION AFTER WORK IS COMPLETE.
21. THE OWNER SHALL HAVE FULL SALVAGE RIGHTS OVER ANY ELECTRICAL DEVICES THAT ARE SCHEDULED TO BE DEMOLISHED. COORDINATE IN FIELD WITH OWNER.
22. TO CONTROL ALL THE SINGLE PHASE FANS AND PUMP PROVIDE MANUAL MOTOR STARTER THERMAL OVERLOAD SWITCH AND 120V 20AMPS. CONTROL RELAY/CONTACTOR TO CONTROL PUMP/FAN (VERIFY CONTROL VOLTAGE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR).
23. REFER TO ACT SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
24. REFER TO SPECIFICATION SECTION 260535 FOR ELECTRICAL BOX PUTTY PAD REQUIREMENTS FOR ACOUSTICALLY CRITICAL AND ACOUSTICALLY SENSITIVE WALLS AND PARTITIONS AS DEFINED IN THE ACT SERIES DRAWINGS.

SYMBOL LEGEND

- E - EXISTING TO REMAIN
- N - NEW
- R - EXISTING TO BE REMOVED
- RE - NEW LOCATION OF EXISTING RELOCATED EQUIPMENT

KEYNOTES

1. REFER TO THE A/E DRAWINGS FOR DETAILS.
2. APPROXIMATE LOCATION OF EXISTING DISTRIBUTION PANEL "DP-B"
3. POWER FOR ELEVATOR SUMP PUMP. REFER TO PLUMBING DRAWINGS FOR MORE DETAILS.
4. POWER FOR PUMP CCP-14 LOCATED IN HE TUNNEL. PLEASE VERIFY EXACT LOCATION OF THE PUMP IN THE TUNNEL WITH HVAC DRAWINGS PRIOR TO START.
5. POWER FOR DUMBERSIBLE SUMP PUMP. REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION AND PUMP MANUFACTURER FOR EXACT POWER REQUIREMENTS PRIOR TO START.
6. POWER FOR PUMP ALARM. REFER TO PLUMBING DRAWINGS FOR EXACT DETAILS.



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

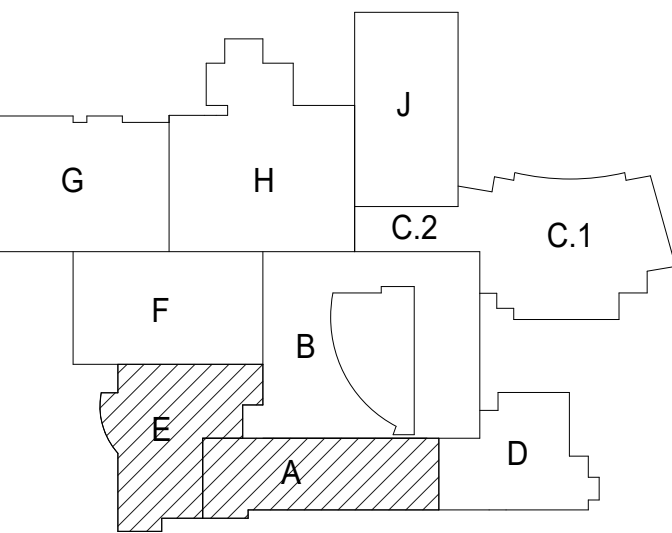
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DISTRICT 99



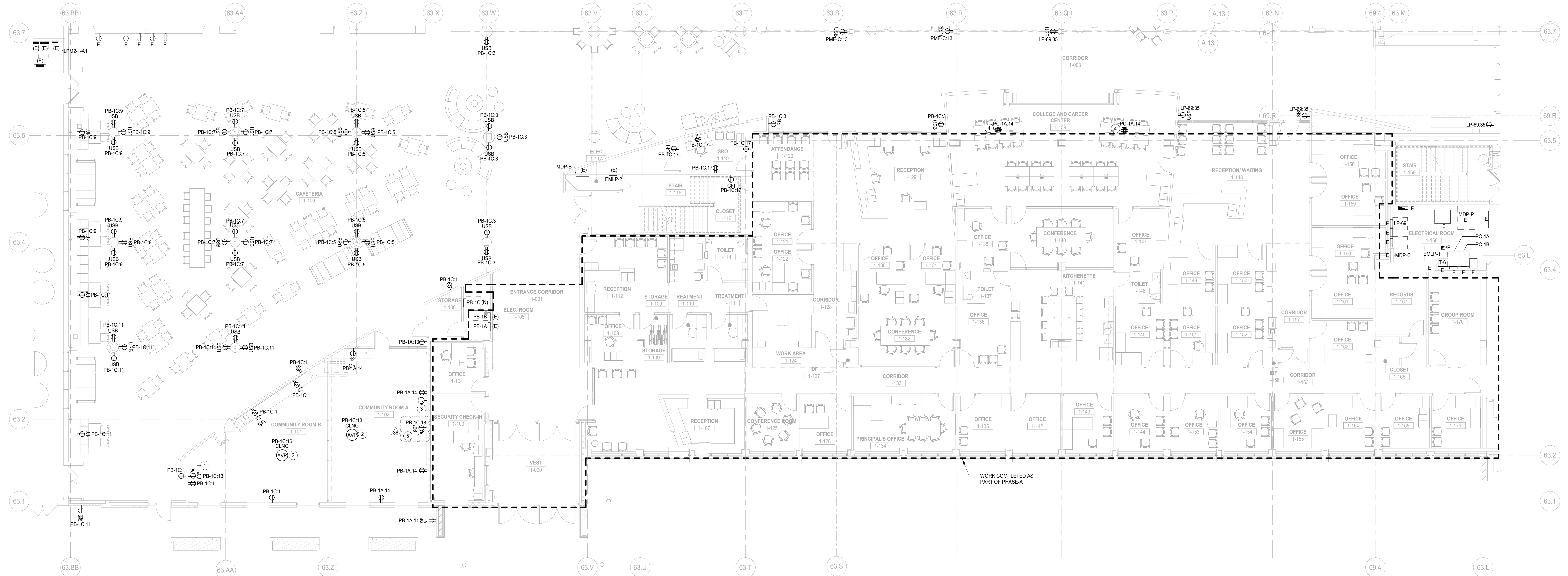
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SYMBOL LEGEND	
E	EXISTING TO REMAIN
N	NEW
R	EXISTING TO BE REMOVED
RE	NEW LOCATION OF EXISTING RELOCATED EQUIPMENT

#	KEYNOTES
1	POWER FOR TV SCREEN. REFER TO AV DRAWINGS FOR MORE DETAILS.
2	POWER FOR PROJECTOR. REFER TO AV DRAWINGS FOR MORE DETAILS.
3	REFER TO AV DRAWINGS FOR MORE DETAILS.
4	PROVIDE RECESSED LESRANG RFB SERIES FLOOR BOX FOR RECESSED IN CONCRETE WITH QUAD OUTLET AND SLOTS FOR DATA AND AV PER TECHNOLOGY DRAWINGS. PROVIDE RACEWAYS FOR THE LOW VOLTAGE DEVICES PER TECH DRAWINGS. PROVIDE CUTTING AND PATCHING AS REQUIRED.
5	POWER FOR SHORT THROW PROJECTOR. REFER TO LOW VOLTAGE DRAWINGS FOR EXACT ELEVATION AND EXACT POWER REQUIREMENTS.

- GENERAL NOTES
- THESE NOTES APPLICABLE TO ALL POWER PLANS
 - THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4" 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE CIRCUIT.
 - ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 20A/1-POLE CIRCUIT BREAKERS IN PANELBOARD UNLESS NOTED OTHERWISE.
 - THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, FASING, SECURITY, AUDIOVISUAL, VOICE, AND DATA CABLING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILING.
 - BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
 - CIRCUIT NUMBERS, WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBERS TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
 - UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
 - REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
 - ANY ELECTRICAL DEVICES ON NEW WALLS SHALL BE FLUSH MOUNTED. NO WIREMOLDS ARE ACCEPTABLE ON NEW WALLS UNLESS NOTED OTHERWISE.
 - VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.
 - LOW VOLTAGE WIRING SHALL NOT LIE ON TOP OF CEILING GRID SYSTEM. WIRING SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 5 FEET BY UTILIZING J-HOOKS SUPPORTED BY STRUCTURAL MEMBERS. WIRING SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS.
 - PROVIDE PULL BOXES BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.38 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) BETWEEN PULL POINTS.
 - SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE "SLASH RATED" FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM. WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE A DEDICATED NEUTRAL FOR EACH UNGROUNDED CONDUCTOR.
 - ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED FOR ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTORS WORK.
 - IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWINGS TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LIGHTING FIXTURES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MODIFIED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOURCE OF EXISTING CONDITIONS.
 - THE CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING HIS BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRE DTD ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LIGHTING FIXTURES, RECEPTACLES, EQUIPMENT DEVICES, ETC. PULL OUT ALL UNUSED CONDUCTORS AND CABLES. REMOVE ALL ABANDONED CONDUIT. ELECTRICALLY DISCONNECT AIR HANDLING UNITS, ELECTRICAL WATER HEATERS, AND EQUIPMENT FOR REMOVAL BY OTHERS. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
 - REFER TO THE MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ALL MECHANICAL EQUIPMENT THAT IS TO BE ELECTRICALLY DISCONNECTED OR REMOVED.
 - THIS CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL DOWN STREAM ELECTRICAL DEVICES AFFECTED BY THE DEMOLITION SHALL BE IN FULL OPERATION AFTER WORK IS COMPLETE.
 - THE OWNER SHALL HAVE FULL SALVAGE RIGHTS OVER ANY ELECTRICAL DEVICES THAT ARE SCHEDULED TO BE DEMOLISHED. COORDINATE IN FIELD WITH OWNER.
 - TO CONTROL ALL THE SINGLE PHASE FANS AND PUMP PROVIDE MANUAL MOTOR STARTER THERMAL OVERLOAD SWITCH AND 120V ZAMERS. CONTROL RELAY/CONTACTOR TO CONTROL PUMPFAN (VERIFY CONTROL VOLTAGE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR).
 - REFER TO AC1 SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
 - REFER TO SPECIFICATION SECTION 260305 FOR ELECTRICAL BOX PUTTY PAD REQUIREMENTS FOR ACOUSTICALLY CRITICAL AND ACOUSTICALLY SENSITIVE WALLS AND PARTITIONS AS DEFINED IN THE AC1 SERIES DRAWINGS.



NOT FOR CONSTRUCTION

36	ISSUED FOR ADDENDUM 2 - 6/8	12.04.2019
	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 90% CD - PHASE C	11.01.2019
	ISSUED FOR 75% CD - PHASE C	10.14.2019
	ISSUED FOR 50% CD - PHASE C	10.02.2019
	ISSUED FOR 25% CD - PHASE C	08.30.2019
18	DOC MOD 007	06.14.2019
A2.4	ISSUED FOR BID GROUP 2- ADDENDUM #4	03.04.2019
REV	ISSUE	DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

FIRST FLOOR POWER PLAN AREA A

Project Number:
5274-42
Drawn By:
Author
Sheet:

E2.01A-1c

1 FIRST FLOOR POWER PLAN AREA A
SCALE: 1/8" = 1'-0"

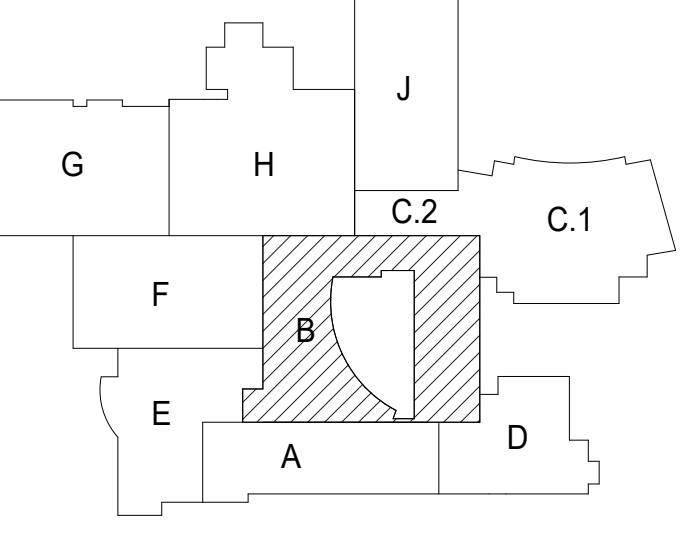
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NORTH

SYMBOL LEGEND

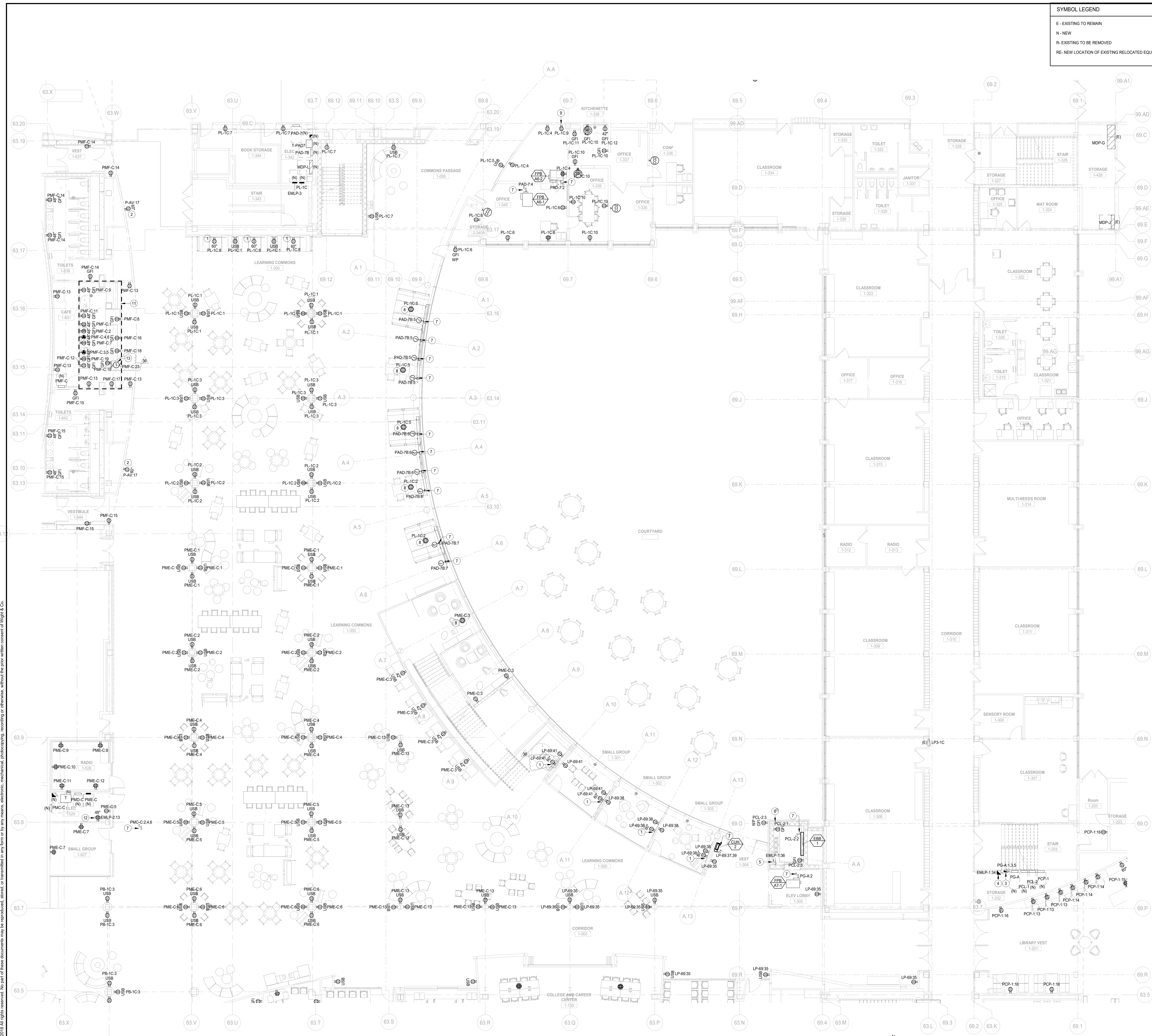
- E- EXISTING TO REMAIN
- N- NEW
- RE- EXISTING TO BE REMOVED
- RE- NEW LOCATION OF EXISTING RELOCATED EQUIPMENT

GENERAL NOTES

1. THESE NOTES APPLICABLE TO ALL POWER PLANS
2. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR ROUNDRUNS AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE RECEPTACLE ONLY.
3. ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 200A-POLE CIRCUIT BREAKERS IN PANELBOARD UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, SECURITY, AUDIOVISUAL, VOICE, AND DATA CABLES. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS AND CEILING.
5. BRACKETS ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
6. CIRCUIT NUMBERS, WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT NUMBER TO BE UTILIZED IN FIELD.
7. UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
8. REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
9. ANY ELECTRICAL DEVICES ON NEW WALLS SHALL BE FLUSH MOUNTED. NO WIREMOLDS ARE ACCEPTABLE ON NEW WALLS UNLESS NOTED OTHERWISE.
10. VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.
11. LOW VOLTAGE WIRING SHALL NOT BE ON TOP OF CEILING GRID SYSTEM. WIRING SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 3 FEET BY UTILIZING J-HOOKS SUPPORTED BY STRUCTURAL MEMBERS. WIRING SHALL BE ROUTED PARALLEL TO PERPENDICULAR TO STRUCTURAL MEMBERS.
12. PROVIDE PULL BOXES BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 304.20 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) BETWEEN PULL POINTS.
13. SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUNDRUN IN REGULAR SPACING TO BUILDING CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
14. CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE "SLASH RATED" FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM. WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE A DEDICATED NEUTRAL FOR EACH UNGROUNDED BREAKER FOR APPROVAL PRIOR TO INSTALLATION.
15. ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED FOR ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTORS WORK.
16. IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWINGS TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LIGHTING FIXTURES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MODIFIED BY THE CONTRACTOR TO ALLOW FOR THE RENOVATION PURPOSES OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE USED FOR CONSTRUCTION.
17. THE CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING HIS BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRED TO ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LIGHTING FIXTURES, RECEPTACLES, EQUIPMENT DEVICES, ETC. PULL OUT ALL UNUSED CONDUCTORS AND CABLES. REMOVE ALL ABANDONED EQUIPMENT ELECTRICALLY DISCONNECT AND HANDLING UNITS. ELECTRICAL WATER HEATERS, AND EQUIPMENT FOR REMOVAL BY OTHERS. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
19. REFER TO THE MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT THAT IS TO BE ELECTRICALLY DISCONNECTED OR REMOVED.
20. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL DOWN STREAM ELECTRICAL DEVICES AFFECTED BY THE DEMOLITION SHALL BE IN FULL OPERATION AFTER WORK IS COMPLETE.
21. THE OWNER SHALL HAVE FULL SALVAGE RIGHTS OVER ANY ELECTRICAL DEVICES THAT ARE SCHEDULED TO BE DEMOLISHED. COORDINATE IN FIELD WITH OWNER.
22. TO CONTROL ALL THE SINGLE PHASE FANS AND PUMP PROVIDE MANUAL MOTOR STARTERS THERMAL OVERLOAD SWITCH AND 120V 20AMP CONTROL RELAY/CONTACTOR TO CONTROL PUMP/FAN VERIFY CONTROL VOLTAGE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR.
23. REFER TO AC1 SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
24. REFER TO SPECIFICATION SECTION 260305 FOR ELECTRICAL BOX PUTTY PAD REQUIREMENTS FOR ACOUSTICALLY CRITICAL AND ACOUSTICALLY SENSITIVE WALLS AND PARTITIONS AS DEFINED IN THE AC1 SERIES DRAWINGS.

KEYNOTES

1. POWER FOR TV SCREEN. REFER TO AV DRAWINGS FOR EXACT LOCATION AND MORE DETAILS PRIOR TO START.
2. POWER FOR TV SCREEN. REFER TO AV AND THEATRE CONSULTANT DRAWINGS FOR ELEVATIONS AND BACK BOX REQUIREMENTS. PRIOR TO START.
3. MAIN FUSED 30 AMP DISCONNECT FOR ELEVATOR WITH AUXILIARY CONTACT SWITCH FOR THE ELEVATOR SYSTEM. THE MAIN ELEVATOR DISCONNECT TO FEED THE AUXILIARY DISCONNECT. MAIN DISCONNECT TO HAVE PROVISIONS TO BE LOCKED OUT AND TAGGED DURING SERVICING. REFER TO ELEVATOR MANUFACTURER SPECIFICATIONS AND SUBMITTALS FOR ADDITIONAL SCOPE OF WORK AND REQUIREMENTS. PROVIDE ENGRAVED TAG TELEVISOR MAIN DISCONNECT.
4. LOCKABLE DISCONNECT FOR ELEVATOR CAB LIGHTING. REFER TO ELEVATOR SPECIFICATIONS FOR MORE DETAILS.
5. POWER FOR ELEVATOR VENTILATION FAN. REFER TO ELEVATOR SUBMITTALS AND MANUFACTURER REQUIREMENTS FOR EXACT LOCATION OF THE FAN AND ADDITIONAL POWER REQUIREMENTS.
6. POWER FOR ELEVATOR SUMP PUMP LOCATED IN THE PIT. LOCATE THE RECEPTACLE IN THE ELEVATOR PIT. COORDINATE EXACT LOCATION OF THE SUMP PUMP PRIOR TO INSTALL POWER.
7. POWER FOR HVAC EQUIPMENT. REFER TO HVAC DRAWINGS FOR EXACT LOCATION AND MANUFACTURER REQUIREMENTS FOR POWER.
8. LEGRAND WIREMOLD 800 SERIES RECESSED FLOOR BOX WITH DUPLEX RECEPTACLE. PROVIDE DUPLEX RECEPTACLE FLOOR BOX COVER PER ARCHITECTS SELECTION. EXACT LOCATION OF THE BOX NEED TO BE COORDINATED WITH THE ARCHITECTS DRAWING PRIOR TO START.
9. POWER FOR PRINTER.
10. NOT USED.
11. REFER TO KITCHEN CONSULTANT DRAWINGS, FOOD SERVICE EQUIPMENT SCHEDULE FOR EXACT TYPE OF CONNECTION, ELEVATION, AND FOR MORE DETAILS.
12. POWER FOR DF CABINET. REFER TO TECHNOLOGY DRAWINGS AND DETAILS FOR EXACT LOCATION AND ADDITIONAL SCOPE OF WORK PRIOR TO START. THIS LOCATION IS SHOWN FOR REFERENCE ONLY.
13. POWER FOR OVERHEAD COILING SECURITY DOOR. PROVIDE CONTROL KEY SWITCH. COORDINATE EXACT LOCATION OF THE SWITCH WITH THE ARCHITECT PRIOR TO START.



1 FIRST FLOOR POWER PLAN AREA B
SCALE: 1/8" = 1'-0"

NOT FOR
CONSTRUCTION

36	ISSUED FOR ADDENDUM 2 - B08	12.04.2019
	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 80%CD - PHASE C	11.01.2019
	ISSUED FOR 75%CD - PHASE C	10.14.2019
	ISSUED FOR 50%CD - PHASE C	10.02.2019
	ISSUED FOR 25%CD - PHASE C	08.30.2019
	ISSUED FOR 100% ICD	07.12.2019
REV	ISSUE	DATE

MFP
IMPLEMENTATION -
SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60616

FIRST FLOOR POWER
PLAN AREA B

Project Number:
5274-42
Drawn By:
Author
Sheet:

E2.01B-1c

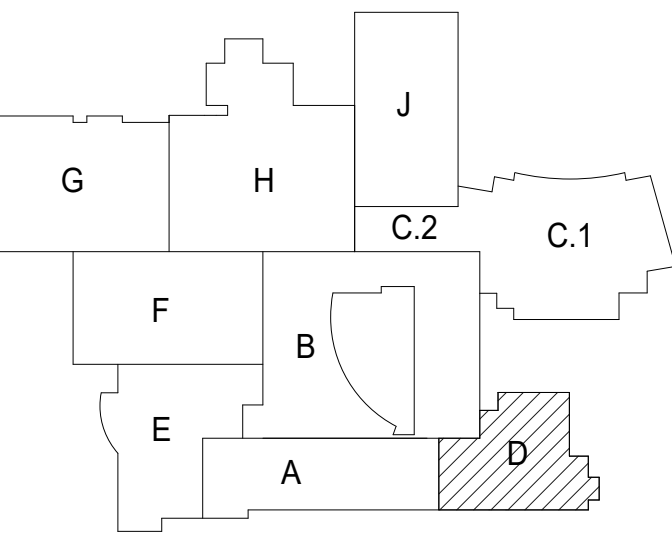
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DISTRICT 99

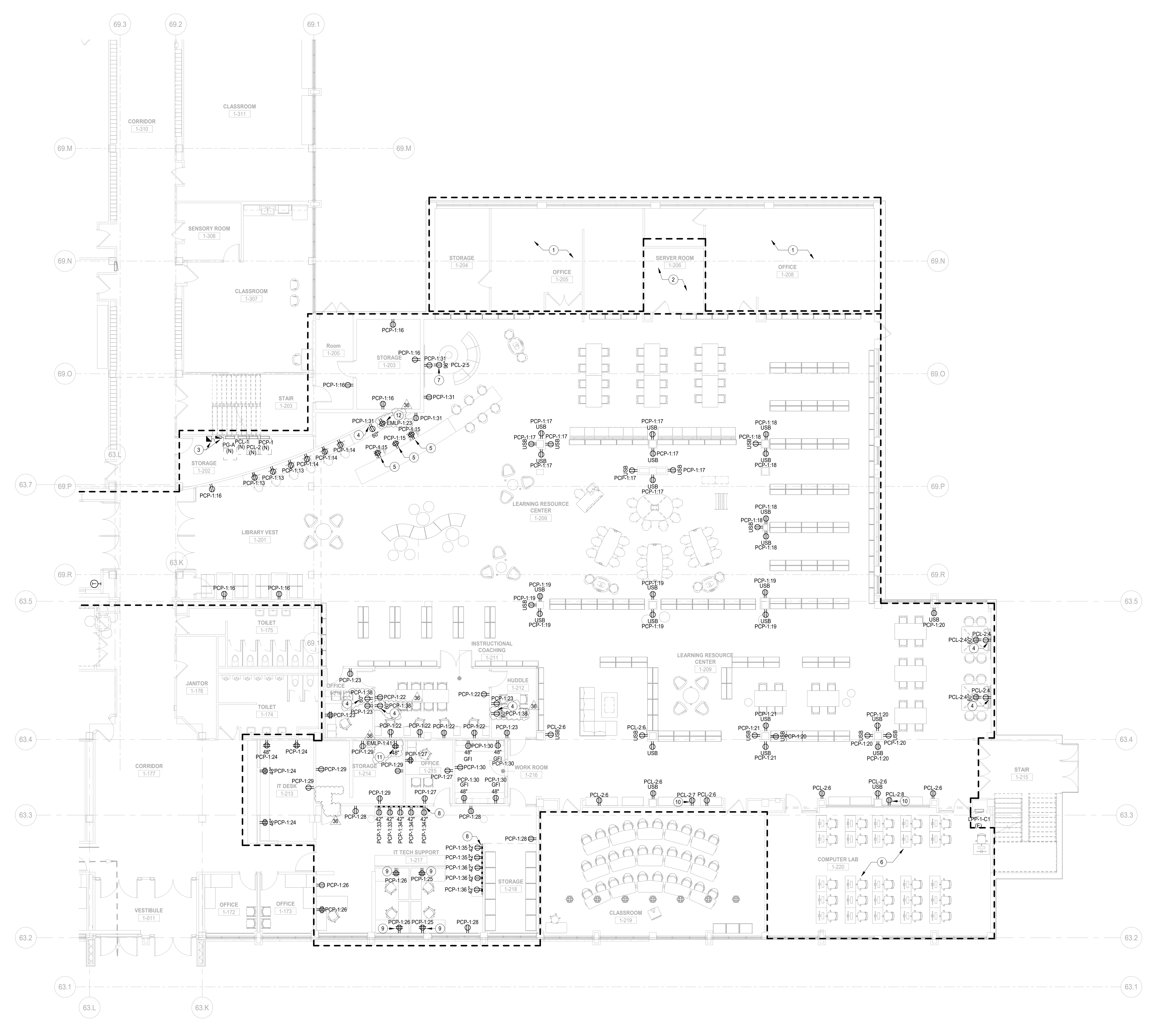


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SYMBOL LEGEND	GENERAL NOTES
E - EXISTING TO REMAIN	1. THESE NOTES APPLICABLE TO ALL POWER PLANS
N - NEW	2. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4" 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE LINE RECEPTACLES ONLY.
RE - EXISTING TO BE REMOVED	3. ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 200A1-POLE CIRCUIT BREAKERS IN PANELS ONLY UNLESS NOTED OTHERWISE.
RE - NEW LOCATION OF EXISTING RELOCATED EQUIPMENT	4. THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, SECURITY, AUDIOVISUAL, VOICE, AND DATA CABLING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILINGS.
	5. BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
	6. CIRCUIT NUMBERS, WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
	7. UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
	8. REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
	9. ANY ELECTRICAL DEVICES ON NEW WALLS SHALL BE FLUSH MOUNTED. NO WIREMOLDS ARE ACCEPTABLE ON NEW WALLS UNLESS NOTED OTHERWISE.
	10. VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.
	11. LOW VOLTAGE WIRING SHALL NOT BE ON TOP OF CEILING GRID SYSTEM. WIRING SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 5 FEET BY UTILIZING J-HOOKS SUPPORTED BY STRUCTURAL MEMBERS. WIRING SHALL BE ROUTED PARALLEL, OR PERPENDICULAR TO STRUCTURAL MEMBERS.
	12. PROVIDE PULL BOXES BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 348.26 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) BETWEEN PULL POINTS.
	13. SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
	14. CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE FLASH RATED FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM. WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE A DEDICATED NEUTRAL FOR EACH UNGROUNDED CONDUCTOR.
	15. ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED FOR ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTOR'S WORK.
	16. IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWINGS TO INDICATE DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MODIFIED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.
	17. THE CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING HIS BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK.
	18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRE DTD ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LIGHTING FIXTURES, RECEPTACLES, EQUIPMENT DEVICES, ETC. PULL OUT ALL UNUSED CONDUCTORS AND CABLES. REMOVE ALL ABANDONED CONDUIT, ELECTRICALLY DISCONNECT AIR HANDLING UNITS, ELECTRICAL WATER HEATERS, AND EQUIPMENT FOR REMOVAL BY OTHERS. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
	19. REFER TO THE MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ALL MECHANICAL EQUIPMENT THAT IS TO BE ELECTRICALLY DISCONNECTED OR REMOVED.
	20. THIS CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL DOWN STREAM ELECTRICAL DEVICES AFFECTED BY THE DEMOLITION SHALL BE IN FULL OPERATION AFTER WORK IS COMPLETE.
	21. THE OWNER SHALL HAVE FULL SALVAGE RIGHTS OVER ANY ELECTRICAL DEVICES THAT ARE SCHEDULED TO BE DEMOLISHED. COORDINATE IN FIELD WITH OWNER.
	22. TO CONTROL ALL THE SINGLE PHASE PANS AND PUMP PROVIDE MANUAL MOTOR STARTER WITH OVERLOAD SWITCH AND 120V/20AMPS. CONTROL RELAY/CONTACTOR TO CONTROL PUMP/FAN (VERIFY CONTROL VOLTAGE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR).
	23. REFER TO ACT SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
	24. REFER TO SPECIFICATION SECTION 28555 FOR ELECTRICAL BOX PUTTY PAD REQUIREMENTS FOR ACOUSTICALLY CRITICAL AND ACOUSTICALLY SENSITIVE WALLS AND PARTITIONS AS DEFINED IN THE ACT SERIES DRAWINGS.

#	KEYNOTES
1	EXISTING AREAS TO REMAIN. POWER TO THE EXISTING AREAS TO REMAIN, IF FEED FROM EXISTING DEDED PANELS IN THE LIBRARY AREA, RE FEED THE LOADS FROM NEW PANEL PCL-1. CONTRACTOR TO VERIFY EXACT CIRCUITING INFO. IN THE FIELD DURING DEMOLITION.
2	EXISTING NORMAL AND EMERGENCY POWER TO THE MDF ROOM TO REMAIN.
3	SEE SHEET E2-01B-1c FOR DETAILS.
4	POWER FOR TV SCREEN, REFER TO AV DRAWINGS FOR MORE DETAILS.
5	OUTLETS TO BE LOCATED SURFACE BELOW THE DESK, CONDUIT RUNNING THROUGH THE SPINE OF THE FURNITURE TABLE. PROVIDE CUTTING AND PATCHING AS REQUIRED.
6	POWER IN THE COMPUTER LAB IS EXISTING TO REMAIN.
7	POWER FOR SHORT THROW PROJECTOR, REFER TO AV DRAWINGS FOR MORE DETAILS.
8	PROVIDE 4000 SERIES LEGRAND STEEL WIREMOLD RACEWAY MOUNTED AT COUNTER HEIGHT, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.
9	PROVIDE POWER TO THE FURNITURE FROM THE WALLS THROUGH WAMP FROM THE SPINE OF THE FURNITURE. REFER TO FURNITURE AND ARCHITECTURAL DRAWINGS FOR EXACT REQUIREMENTS PRIOR TO START.
10	POWER FOR PRINTER, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
11	POWER FOR IDF CABINET, REFER TO TECHNOLOGY DRAWINGS AND DETAILS FOR EXACT LOCATION AND ADDITIONAL SCOPE OF WORK PRIOR TO START. THIS LOCATION IS SHOWN FOR REFERENCE ONLY.
12	POWER FOR AV HEAD END EQUIPMENT, REFER TO LOW VOLTAGE DRAWINGS FOR MORE DETAILS AND ADDITIONAL SCOPE OF WORK.



1 FIRST FLOOR POWER PLAN AREA D
SCALE: 1/8" = 1'-0"

**NOT FOR
CONSTRUCTION**

36	ISSUED FOR ADDENDUM 2 - BGR	12.04.2019
	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 80% CD - PHASE C	11.01.2019
	ISSUED FOR 75% CD - PHASE C	10.14.2019
	ISSUED FOR 50% CD - PHASE C	10.02.2019
	ISSUED FOR 25% CD - PHASE C	08.30.2019
	ISSUED FOR 100% DD	07.12.2019
REV	ISSUE	DATE

**MFP
IMPLEMENTATION -
SOUTH**

1436 NORFOLK STREET
DOWNERS GROVE, IL 60616

**FIRST FLOOR POWER
PLAN AREA D**

Project Number:
5274-42
Drawn By:
Author
Sheet:

E2.01D-1c

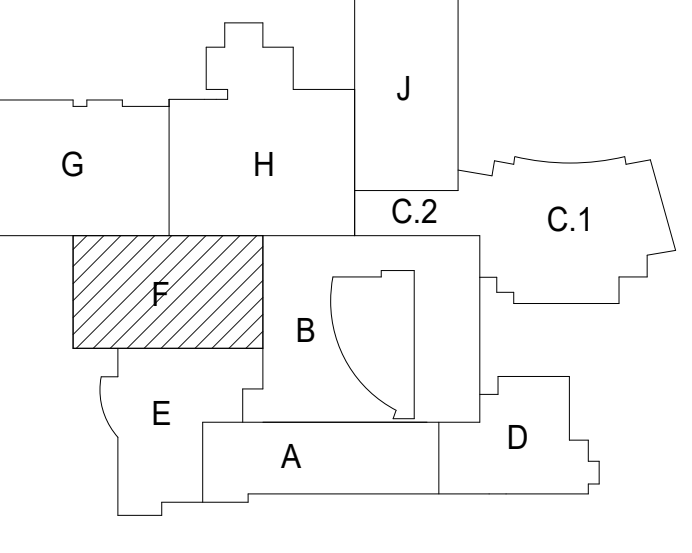
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36	ISSUED FOR ADDENDUM 2 - BGR	12.04.2019
	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 80% CD - PHASE C	11.01.2019
	ISSUED FOR 75% CD - PHASE C	10.14.2019
	ISSUED FOR 50% CD - PHASE C	10.02.2019
	ISSUED FOR 25% CD - PHASE C	08.30.2019
	ISSUED FOR 100% I.D.D	07.12.2019
REV	ISSUE	DATE

**MFP
IMPLEMENTATION -
SOUTH**

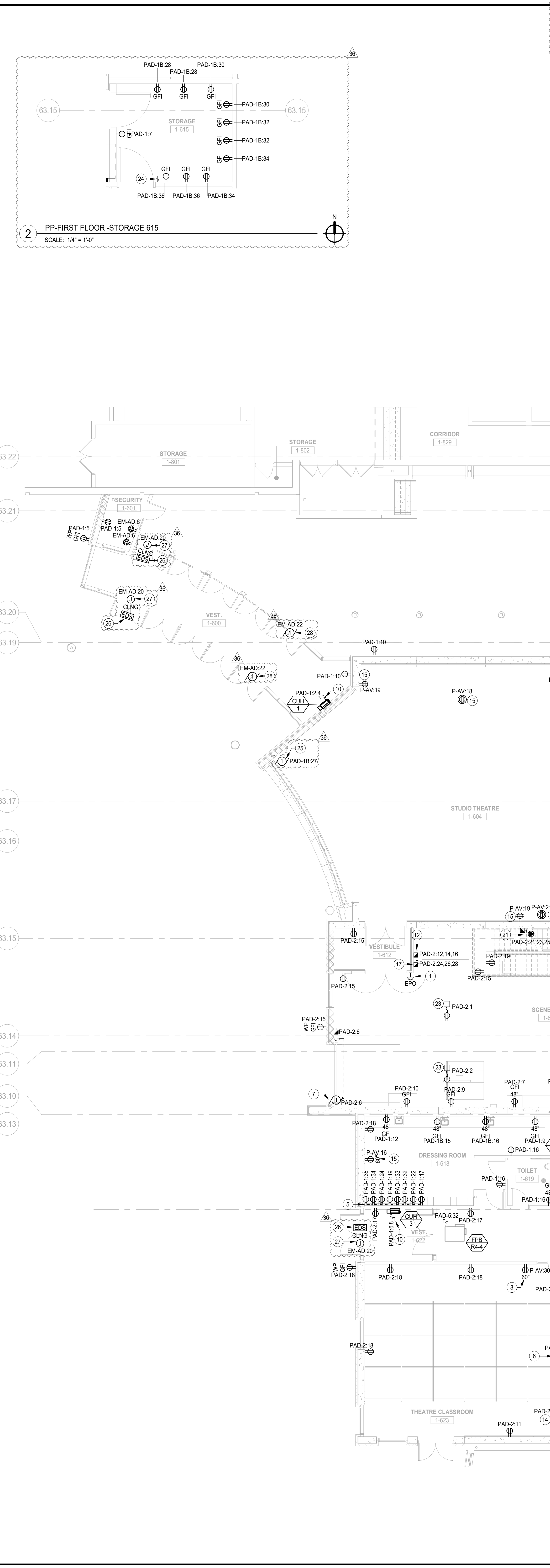
1436 NORFOLK STREET
DOWNERS GROVE, IL 60616

**FIRST FLOOR POWER
PLAN AREA F**

Project Number:
5274-42
Drawn By:
Author
Sheet:

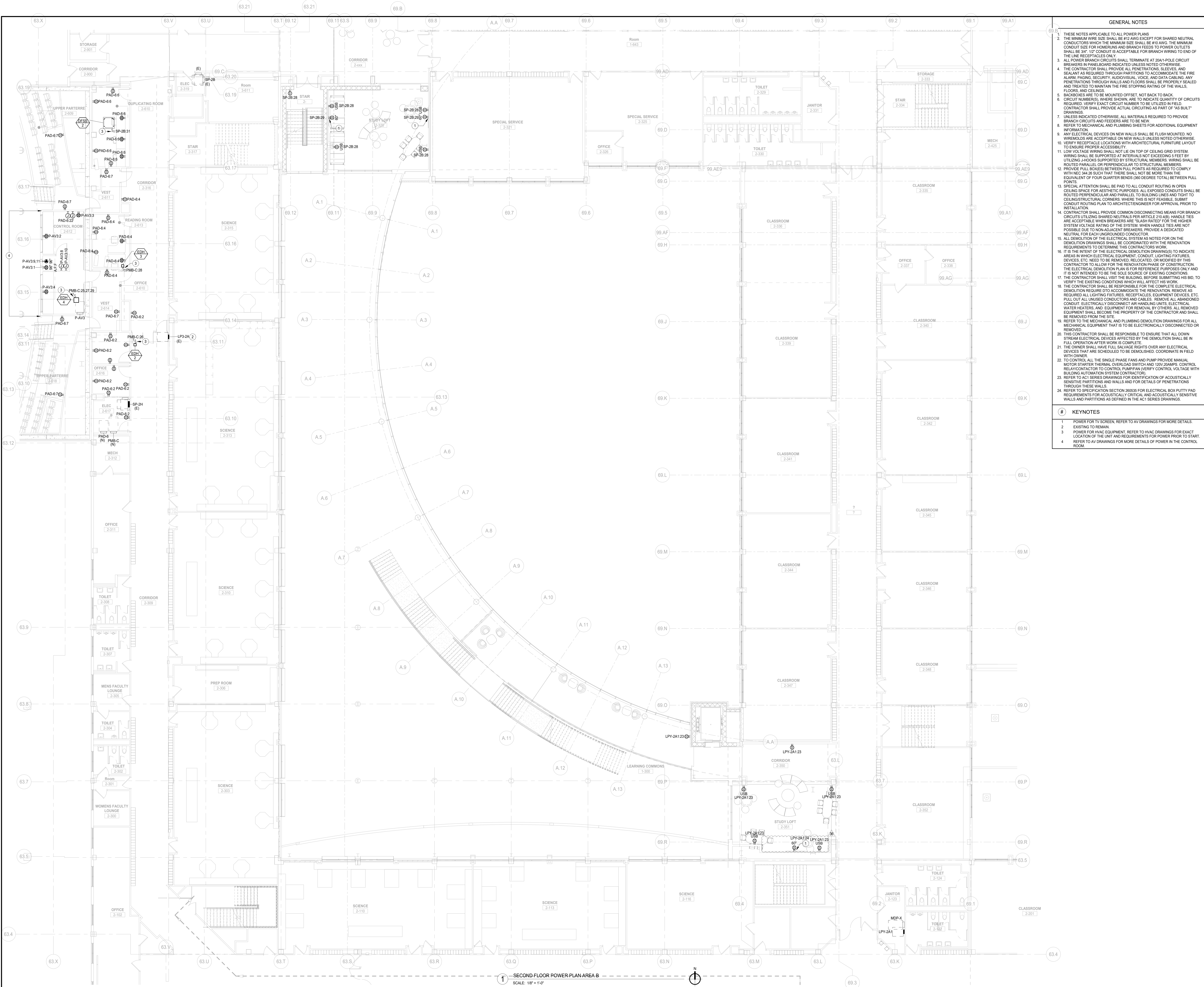
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COORDINATION NOTE		SYMBOL LEGEND		# KEYNOTES		# KEYNOTES		GENERAL NOTES	
REFER TO THEATRE DRAWINGS, PERFORMANCE AV THEATRE AV DRAWINGS, AND AC SERIES DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND DETAILS. THIS NOTE IS APPLICABLE TO ALL THE LEVELS.		E - EXISTING TO REMAIN	N - NEW	21	EMERGENCY POWER SHUT OFF FOR ALL THE POWER CIRCUITS TO THE SCENE SHOP. PROVIDE IN A POLYCARBONATE COVER WITH RESET OPTION AT THE SHUT OFF. LIGHTINGS TO REMAIN ON DURING SHUT OFF.	1	THESE NOTES APPLICABLE TO ALL POWER PLANS	2	THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE LINE RECEPTACLES ONLY.
		R - EXISTING TO BE REMOVED		22	DISCONNECT AND POWER CONNECTION FOR EXISTING RELOCATED MOBILE COMPRESSOR. COORDINATE EXACT POWER REQUIREMENTS WITH THE OWNER PRIOR TO INSTALL. THIS LOCATION IS ONLY FOR REFERENCE. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION IN THE SHOP PRIOR TO INSTALL.	3	ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 20A/1-POLE CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SEWERS, AND SEAKANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM PAGING, SECURITY, AUDIOVISUAL VOICE, AND DATA CABLING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILING.	4	BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
		RE - NEW LOCATION OF EXISTING RELOCATED EQUIPMENT		23	POWER FOR AV PROJECTOR. REFER TO THEATRE AV DRAWINGS FOR MORE DETAILS AND EXACT LOCATION PRIOR TO START. COORDINATE EXACT LOCATION MOUNTING WITH THE ARCHITECTS DRAWINGS PRIOR TO START.	4	CIRCUIT NUMBERS, WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.	5	UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
				24	POWER SHUT OFF SWITCH FOR CIRCUITS PAD-18: 28.30.32.34.36 SERVING THE STORAGE SPACE.	5	PROVIDE AND INSTALL RACEWAY FOR DUPLEX POWER OUTLETS PER THE SERIES DRAWINGS. THESE POWER OUTLETS ON THE POWER STRIP TO BE CONTROLLED BY ONOFF SWITCH LOCATED ON THE WALL. REFER TO THE SERIES DRAWINGS FOR MORE DETAILS AND ADDITIONAL SCOPE OF WORK.	6	POWER FOR OVERHEAD COILING DOOR. CONTROLS SWITCH LOCATION PER MANUFACTURER REQUIREMENTS. COORDINATE WITH MANUFACTURER FOR POWER REQUIREMENTS.
				25	POWER FOR BLACK OUT ROLLER SHADES. PROVIDE CONTROL SWITCH ON THE WALL. COORDINATE WITH THE ARCHITECT FOR EXACT LOCATION OF THE SWITCH.	6	REFER TO DETAILS SHEET FOR TYPICAL DOOR ACCESS CONTROL. DETAILS AND LOW VOLTAGE CONSULTANT DRAWINGS FOR ADDITIONAL SCOPE.	7	REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
				26	REFER TO DOOR ACCESS CONTROL DETAIL ON DETAILS SHEET FOR MORE DETAILS. REFER TO LOW VOLTAGE SECURITY DRAWINGS FOR MORE INFORMATION AND SCOPE FOR ACCESS CONTROLS. THIS IS TYPICAL FOR ALL THE DOORS WITH ACCESS CONTROLS IN THIS PROJECT.	7	POWER FOR TV SCREENS. REFER TO AV AND THEATRE CONSULTANT DRAWINGS FOR ELEVATION AND BACK BOX REQUIREMENTS PRIOR TO START.	8	POWER FOR HVAC EQUIPMENT. REFER TO HVAC DRAWINGS FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO START.
				27	POWER FOR ACTUATED DOOR. REFER TO LOW VOLTAGE DRAWINGS FOR EXACT REQUIREMENTS FOR POWER AND RUSH IN INFORMATION FOR THE POWER ACTUATORS.	8	REFER TO KITCHEN CONSULTANT DRAWINGS, FOOD SERVICE EQUIPMENT SCHEDULE FOR EXACT TYPE OF CONNECTION, ELEVATION, AND FOR MORE DETAILS.	9	POWER FOR TV SCREENS. REFER TO AV AND THEATRE CONSULTANT DRAWINGS FOR ELEVATION AND BACK BOX REQUIREMENTS PRIOR TO START.
						9	POWER FOR TV SCREENS. REFER TO AV AND THEATRE CONSULTANT DRAWINGS FOR ELEVATION AND BACK BOX REQUIREMENTS PRIOR TO START.	10	POWER FOR HVAC EQUIPMENT. REFER TO HVAC DRAWINGS FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO START.
						10	POWER FOR TV SCREENS. REFER TO AV AND THEATRE CONSULTANT DRAWINGS FOR ELEVATION AND BACK BOX REQUIREMENTS PRIOR TO START.	11	REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
						11	POWER FOR TV SCREENS. REFER TO AV AND THEATRE CONSULTANT DRAWINGS FOR ELEVATION AND BACK BOX REQUIREMENTS PRIOR TO START.	12	REFER TO KITCHEN CONSULTANT DRAWINGS, FOOD SERVICE EQUIPMENT SCHEDULE FOR EXACT TYPE OF CONNECTION, ELEVATION, AND FOR MORE DETAILS.
						12	POWER FOR TV SCREENS. REFER TO AV AND THEATRE CONSULTANT DRAWINGS FOR ELEVATION AND BACK BOX REQUIREMENTS PRIOR TO START.	13	POWER FOR ANY 27 CNC ROUTER. COORDINATE WITH MANUFACTURER FOR EXACT POWER REQUIREMENTS AND CONNECTION TYPE PRIOR TO START.
						13	POWER FOR TV SCREENS. REFER TO AV AND THEATRE CONSULTANT DRAWINGS FOR ELEVATION AND BACK BOX REQUIREMENTS PRIOR TO START.	14	REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
						14	POWER FOR TV SCREENS. REFER TO AV AND THEATRE CONSULTANT DRAWINGS FOR ELEVATION AND BACK BOX REQUIREMENTS PRIOR TO START.	15	REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
						15	POWER FOR TV SCREENS. REFER TO AV AND THEATRE CONSULTANT DRAWINGS FOR ELEVATION AND BACK BOX REQUIREMENTS PRIOR TO START.	16	REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
						16	POWER FOR TV SCREENS. REFER TO AV AND THEATRE CONSULTANT DRAWINGS FOR ELEVATION AND BACK BOX REQUIREMENTS PRIOR TO START.	17	REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
						17	POWER FOR TV SCREENS. REFER TO AV AND THEATRE CONSULTANT DRAWINGS FOR ELEVATION AND BACK BOX REQUIREMENTS PRIOR TO START.		



1 FIRST FLOOR POWER PLAN AREA F
SCALE: 1/8" = 1'-0"

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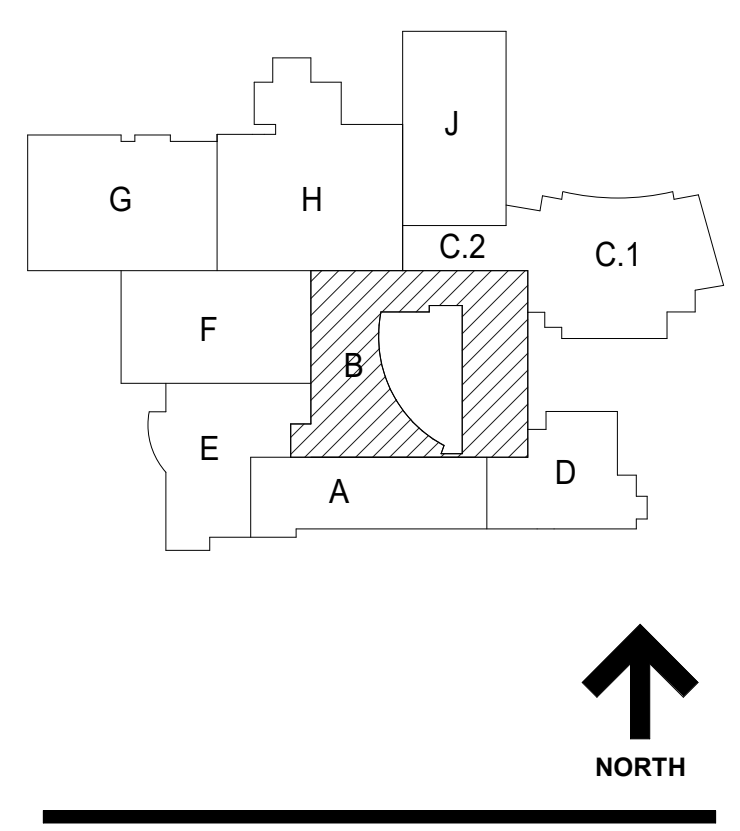
- GENERAL NOTES**
1. THESE NOTES APPLICABLE TO ALL POWER PLANS
 2. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4" 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE LINE RECEPTACLES ONLY.
 3. ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 200A1-POLE CIRCUIT BREAKERS IN PANEL BOARD UNLESS NOTED OTHERWISE.
 4. THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, SECURITY, AUDIOVISUAL, VOICE, AND DATA CABLEING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILING.
 5. BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
 6. CIRCUIT NUMBERS, WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
 7. UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
 8. REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
 9. ALL RECEPTACLE LOCATIONS ON NEW WALLS SHALL BE FLUSH MOUNTED. NO WIREMOLDS ARE ACCEPTABLE ON NEW WALLS UNLESS NOTED OTHERWISE.
 10. VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.
 11. LOW VOLTAGE WIRING SHALL NOT LIE ON TOP OF CEILING GRID SYSTEM. WIRING SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 5 FEET BY UTILIZING J-HOOKS SUPPORTED BY STRUCTURAL MEMBERS. WIRING SHALL BE ROUTED PARALLEL, OR PERPENDICULAR TO STRUCTURAL MEMBERS.
 12. PROVIDE PULL BOXES BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 348.30(S) SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) BETWEEN PULL POINTS.
 13. SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULARLY AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS WHERE THIS IS NOT FEASIBLE. SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
 14. CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE "SLASH RATED" FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM. WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE A DEDICATED NEUTRAL FOR EACH LINE/UNBUNDLED CONDUCTOR.
 15. ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED FOR ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTOR'S WORK.
 16. IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWINGS TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LIGHTING FIXTURES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MODIFIED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.
 17. THE CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING HIS BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK.
 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRE DTD TO ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LIGHTING FIXTURES, RECEPTACLES, EQUIPMENT DEVICES, ETC. PULL OUT ALL UNUSED CONDUCTORS AND CABLES. REMOVE ALL ABANDONED CONDUIT. ELECTRICALLY DISCONNECT AIR HANDLING UNITS. ELECTRICAL WATER HEATERS, AND EQUIPMENT FOR REMOVAL BY OTHERS. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
 19. REFER TO THE MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ALL REMOVED MECHANICAL EQUIPMENT THAT IS TO BE ELECTRICALLY DISCONNECTED OR REMOVED.
 20. THIS CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL DOWN STREAM ELECTRICAL DEVICES AFFECTED BY THE DEMOLITION SHALL BE IN FULL OPERATION AFTER WORK IS COMPLETE.
 21. THE OWNER SHALL HAVE FULL SALVAGE RIGHTS OVER ANY ELECTRICAL DEVICES THAT ARE SCHEDULED TO BE DEMOLISHED. COORDINATE IN FIELD WITH OWNER.
 22. TO CONTROL ALL THE SINGLE PHASE PANS AND PUMP PROVIDE MANUAL MOTOR STARTER WITH THERMAL OVERLOAD SWITCH AND 120V/240VPS CONTROL RELAY/CONTACTOR TO CONTROL PUMP/FAN (VERIFY CONTROL VOLTAGE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR).
 23. REFER TO ACI SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
 24. REFER TO SPECIFICATION SECTION 28555 FOR ELECTRICAL BOX PUTTY PAD REQUIREMENTS FOR ACOUSTICALLY CRITICAL AND ACOUSTICALLY SENSITIVE WALLS AND PARTITIONS AS DEFINED IN THE ACI SERIES DRAWINGS.
- KEYNOTES**
- 1 POWER FOR TV SCREEN, REFER TO AV DRAWINGS FOR MORE DETAILS.
 - 2 EXISTING TO REMAIN
 - 3 POWER FOR HVAC EQUIPMENT, REFER TO HVAC DRAWINGS FOR EXACT LOCATION OF THE UNIT AND REQUIREMENTS FOR POWER PRIOR TO START.
 - 4 REFER TO AV DRAWINGS FOR MORE DETAILS OF POWER IN THE CONTROL ROOM

DISTRICT 99

COMMUNITY HIGH SCHOOL DISTRICT 99

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NOT FOR CONSTRUCTION

36 ISSUED FOR ADDENDUM 2 - B08 12.04.2019
ISSUED FOR BID GROUP B - PHASE C 11.20.2019
ISSUED FOR 90% C/D - PHASE C 11.01.2019
ISSUED FOR 75% C/D - PHASE C 10.14.2019

REV ISSUE DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

SECOND FLOOR POWER PLAN AREA B

Project Number:
5274-42
Drawn By:
Author:
Sheet:

E2.02B-1c

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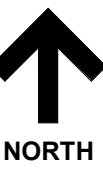
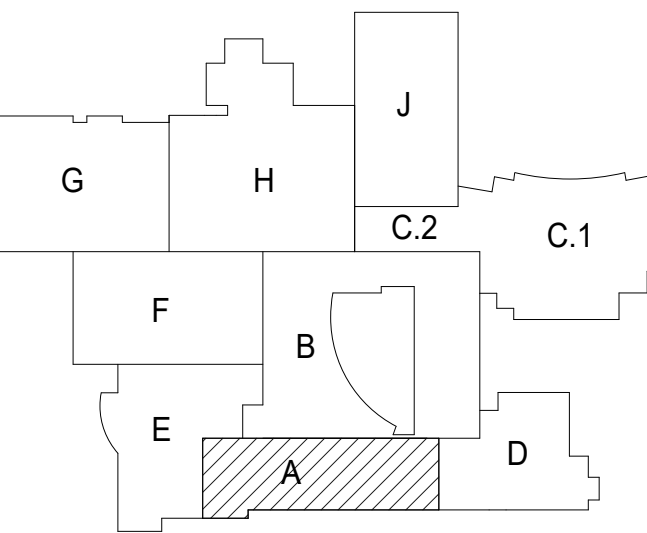
1 SECOND FLOOR POWER PLAN AREA B
SCALE: 1/8" = 1'-0"



COMMUNITY HIGH SCHOOL
DISTRICT 99



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**NOT FOR
CONSTRUCTION**

36	ISSUED FOR ADDENDUM 2 - B08	12.04.2019
	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 50%CD - PHASE C	11.01.2019
	ISSUED FOR 75%CD - PHASE C	10.14.2019
	ISSUED FOR 50%CD - PHASE C	10.02.2019
	ISSUED FOR 25%CD - PHASE C	08.30.2019
A2.4	ISSUED FOR BID GROUP 2 - ADDENDUM #4	03.04.2019
REV	ISSUE	DATE

**MFP
IMPLEMENTATION -
SOUTH**

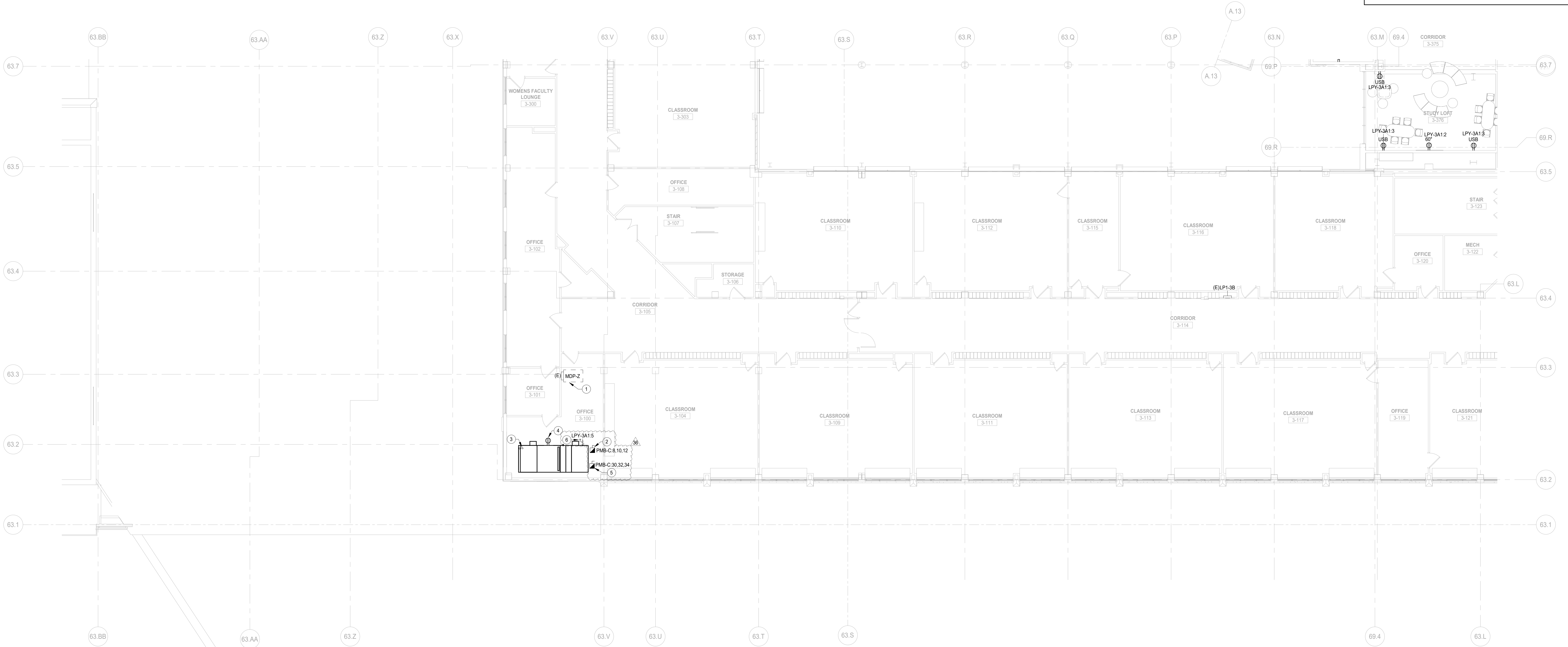
1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

**THIRD FLOOR POWER
PLAN AREA A**

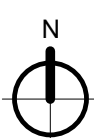
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5274-42
Drawn By:
Author
Sheet:

E2.03A-1c

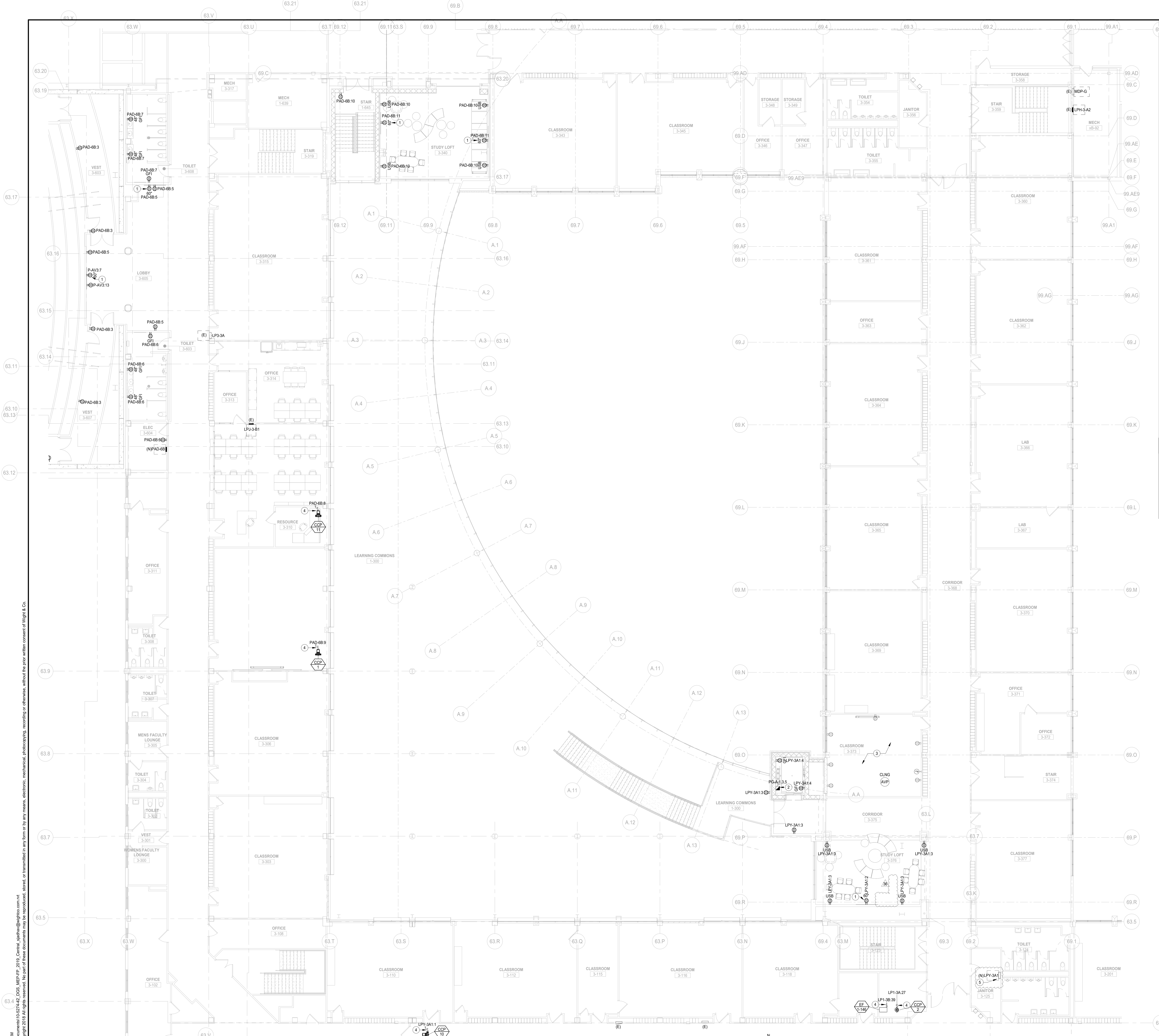
SYMBOL LEGEND	# KEYNOTES	GENERAL NOTES
E - EXISTING TO REMAIN	1 EXISTING PANEL TO REMAIN. REUSE EXISTING PANELS TO RE FEED THE EXISTING ROOF TOP UNITS PREVIOUSLY FEED FROM MDP-7.	1 THESE NOTES APPLICABLE TO ALL POWER PLANS
N - NEW	2 POWER FOR HVAC EQUIPMENT SUPPLY FAN COORDINATE WITH HVAC DRAWINGS FOR EXACT LOCATION OF THE EQUIPMENTS AND MORE DETAILS FOR POWER CONNECTION.	2 THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4" 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE RECEPTABLES ONLY.
R - EXISTING TO BE REMOVED	3 POWER FOR UNIT LIGHTS. COORDINATE THE EXACT LOCATION OF THE POINT OF POWER CONNECTION WITH THE MANUFACTURER PRIOR TO START. 120V, 1 PHASE.	3 ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 200A-POLE CIRCUIT BREAKERS IN PANELS UNLESS NOTED OTHERWISE.
RE - NEW LOCATION OF EXISTING RELOCATED EQUIPMENT	4 PROVIDE 120V, 1-PHASE POWER FROM THE NEAREST 120V RECEPTACLE CIRCUIT SERVING THE AREA. PROVIDE NEW 20 AMP CIRCUIT BREAKER.	4 THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANTS AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, SECURITY, AUDIOVISUAL, AND DATA CABLES. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILINGS.
	5 POWER FOR HVAC EQUIPMENT RETURN FAN. COORDINATE WITH HVAC DRAWINGS FOR EXACT LOCATION OF THE EQUIPMENTS AND MORE DETAILS FOR POWER CONNECTION.	5 BACKHOLES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
	6 POWER FOR ENERGY RECOVERY WHEEL. REFER TO HVAC DRAWINGS FOR MORE DETAILS.	6 CIRCUIT NUMBER(S), WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
		7 UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
		8 REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
		9 ANY ELECTRICAL DEVICES ON NEW WALLS SHALL BE FLUSH MOUNTED. NO WIREMOLDS ARE ACCEPTABLE ON NEW WALLS UNLESS NOTED OTHERWISE.
		10 VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.
		11 LOW VOLTAGE WIRING SHALL NOT LIE ON TOP OF CEILING GRID SYSTEM. WIRING SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 3 FEET BY UTILIZING J-HOOKS SUPPORTED BY STRUCTURAL MEMBERS. WIRING SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS.
		12 PROVIDE PULL BOXES BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.26 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) BETWEEN PULL POINTS.
		13 SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
		14 CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210-4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE "LASH RATED" FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM. WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE A DEDICATED NEUTRAL FOR EACH UNPROTECTED CONDUCTOR.
		15 ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED FOR ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTORS WORK.
		16 IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWINGS(S) TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LIGHTING FIXTURES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MODIFIED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.
		17 THE CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING HIS BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK.
		18 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRED TO ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LIGHTING FIXTURES, RECEPTABLES, EQUIPMENT DEVICES, ETC. PULL OUT ALL UNUSED CONDUCTORS AND CABLES. REMOVE ALL ABANDONED CONDUIT, ELECTRICALLY DISCONNECT AIR HANDLING UNITS, ELECTRICAL WATER HEATERS, AND EQUIPMENT FOR REMOVAL BY OTHERS. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
		19 REFER TO THE MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ALL MECHANICAL EQUIPMENT THAT IS TO BE ELECTRICALLY DISCONNECTED OR REMOVED.
		20 THIS CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL DOWN STREAM ELECTRICAL DEVICES AFFECTED BY THE DEMOLITION SHALL BE IN FULL OPERATION AFTER WORK IS COMPLETE.
		21 THE OWNER SHALL HAVE FULL SALVAGE RIGHTS OVER ANY ELECTRICAL DEVICES THAT ARE SCHEDULED TO BE DEMOLISHED. COORDINATE IN FIELD WITH OWNER.
		22 TO CONTROL ALL THE SINGLE PHASE FANS AND PUMP PROVIDE MANUAL MOTOR STARTER THERMAL OVERLOAD SWITCH AND 120V 20AMP CONTROL RELAY/CONTACTOR TO CONTROL PUMP/FAN (VERIFY CONTROL VOLTAGE WITH BUILDING AUTOMATION CONTRACTOR).
		23 REFER TO AC1 SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
		24 REFER TO SPECIFICATION SECTION 260555 FOR ELECTRICAL BOX PUTTY AND REQUIREMENTS FOR ACOUSTICALLY CRITICAL AND ACOUSTICALLY SENSITIVE WALLS AND PARTITIONS AS DEFINED IN THE AC1 SERIES DRAWINGS.



1 THIRD FLOOR POWER PLAN AREA A
SCALE: 1/8" = 1'-0"



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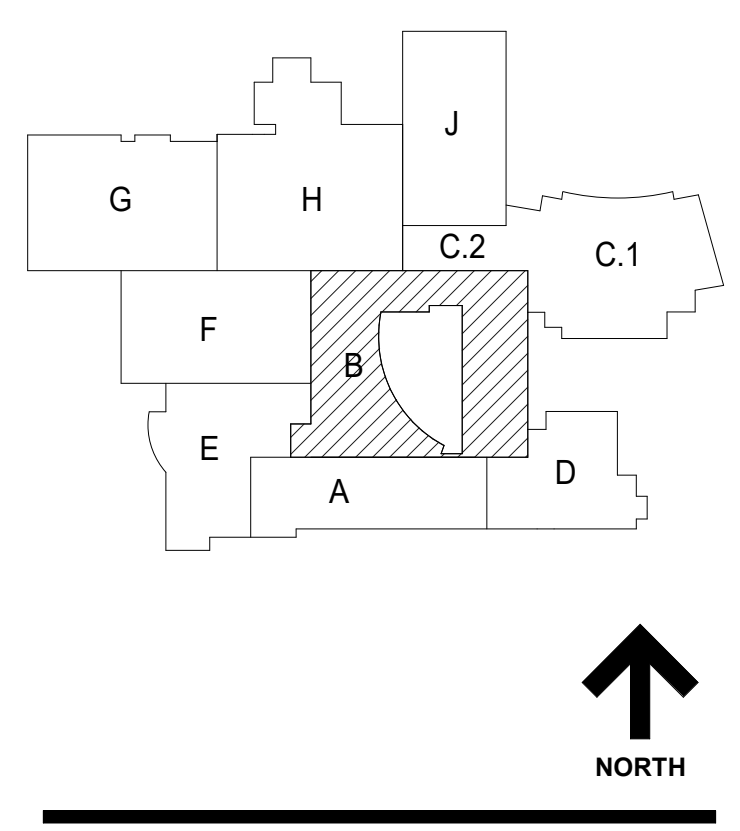


- GENERAL NOTES**
1. THESE NOTES APPLICABLE TO ALL POWER PLANS
 2. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCHES TO POWER OUTLETS SHALL BE 3/4" 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE LINE RECEPTACLES ONLY UNLESS NOTED OTHERWISE
 3. ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 20A-1-POLE CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE
 4. THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, SECURITY, AUDIOVISUAL, VOICE, AND DATA CABLES. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILING.
 5. BRACKETS ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
 6. CIRCUIT NUMBER(S), WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS. BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
 7. REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
 8. UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
 9. REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
 10. VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.
 11. LOW VOLTAGE WIRING SHALL NOT BE ON TOP OF CEILING GRID SYSTEM. WIRING SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 5 FEET BY UTILIZING J-HOOKS SUPPORTED BY STRUCTURAL MEMBERS. WIRING SHALL BE ROUTED PARALLEL, OR PERPENDICULAR TO STRUCTURAL MEMBERS.
 12. PROVIDE PULL BOX(ES) BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.26 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) BETWEEN PULL POINTS.
 13. SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULARLY PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
 14. CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE "SLASH RATED" FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM. WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE A DEDICATED NEUTRAL FOR EACH UNLOADING SYSTEM.
 15. ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED FOR ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTORS WORK.
 16. IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWING(S) TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LIGHTING FIXTURES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MODIFIED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.
 17. THE CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING HIS BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK.
 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRE DTD ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LIGHTING FIXTURES, RECEPTACLES, EQUIPMENT DEVICES, ETC. PULL OUT ALL UNUSED CONDUCTORS AND CABLES. REMOVE ALL ABANDONED CONDUIT. ELECTRICALLY DISCONNECT AIR HANDLING UNITS, ELECTRICAL WATER HEATERS, AND EQUIPMENT FOR REMOVAL BY OTHERS. ALL REMOVED EQUIPMENT SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
 19. REFER TO THE MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ALL MECHANICAL EQUIPMENT THAT IS TO BE ELECTRICALLY DISCONNECTED OR REMOVED.
 20. THIS CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL DOWN STREAM ELECTRICAL DEVICES AFFECTED BY THE DEMOLITION SHALL BE IN FULL OPERATION AFTER WORK IS COMPLETE.
 21. THE OWNER SHALL HAVE FULL SALVAGE RIGHTS OVER ANY ELECTRICAL DEVICES THAT ARE SCHEDULED TO BE DEMOLISHED. COORDINATE IN FIELD WITH OWNER.
 22. TO CONTROL ALL THE SINGLE PHASE FANS AND PUMP PROVIDE MANUAL MOTOR STARTER THERMAL OVERLOAD SWITCH AND 120V/20AMP CONTROL RELAY/CONTACTOR TO CONTROL PUMP/FAN (VERIFY CONTROL VOLTAGE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR)
 23. REFER TO AC1 SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
 24. REFER TO SPECIFICATION SECTION 260505 FOR ELECTRICAL BOX PUTTY PAD REQUIREMENTS FOR ACOUSTICALLY CRITICAL AND ACOUSTICALLY SENSITIVE WALLS AND PARTITIONS AS DEFINED IN THE AC1 SERIES DRAWINGS.

- KEYNOTES**
1. POWER FOR TV SCREEN. REFER TO AV DRAWINGS FOR MORE DETAILS.
 2. AUXILIARY DISCONNECT TO BE LOCATED IN THE HOSTRAY FOR ELEVATOR POWER. REFER TO ELEVATOR MANUFACTURER SPECIFICATIONS FOR EXACT LOCATION, CONNECTION REQUIREMENTS, AND ADDITIONAL SCOPE OF WORK PRIOR TO START.
 3. EXISTING TO REMAIN.
 4. POWER FOR HVAC EQUIPMENT. COORDINATE WITH HVAC DRAWINGS FOR EXACT LOCATION OF THE EQUIPMENT AND FOR MORE DETAILS FOR POWER CONNECTION.
 5. LOCATE THE NEW PANEL AT THIS WALL LOCATION TO MAKE SURE THERE IS NO DUCT OR PIPE PASSING ABOUT THE DEDICATED ELECTRICAL SPACE. MOVE THE EXISTING PANEL ADJACENT TO THIS PANEL. RESROUTE EXISTING CABLES AND CONDUIT FOR THE PANEL AS REQUIRED. VERIFY IN THE FIELD.

SYMBOL LEGEND

E	EXISTING TO REMAIN
N	NEW
R	EXISTING TO BE REMOVED
RE	NEW LOCATION OF EXISTING RELOCATED EQUIPMENT



NOT FOR CONSTRUCTION

36	ISSUED FOR ADDENDUM 2 - BGS	12.04.2019
	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 90%CD - PHASE C	11.01.2019
	ISSUED FOR 75%CD - PHASE C	10.14.2019
	ISSUED FOR 50%CD - PHASE C	10.02.2019
	ISSUED FOR 25%CD - PHASE C	08.30.2019
REV	ISSUE	DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

THIRD FLOOR POWER PLAN AREA B

Project Number:
5274-42
Drawn By:
Author
Sheet:

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1 THIRD FLOOR POWER PLAN AREA B
SCALE: 1/8" = 1'-0"

COORDINATION NOTE
 REFER TO THEATRE DRAWINGS, PERFORMANCE AV/ THEATRE AV DRAWINGS, AND AC SERIES DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND DETAILS. THIS NOTE IS APPLICABLE TO ALL THE LEVELS.

KEYNOTES
 1 REFER TO THEATRE AV DRAWINGS FOR MORE DETAILS AND EXACT LOCATION.

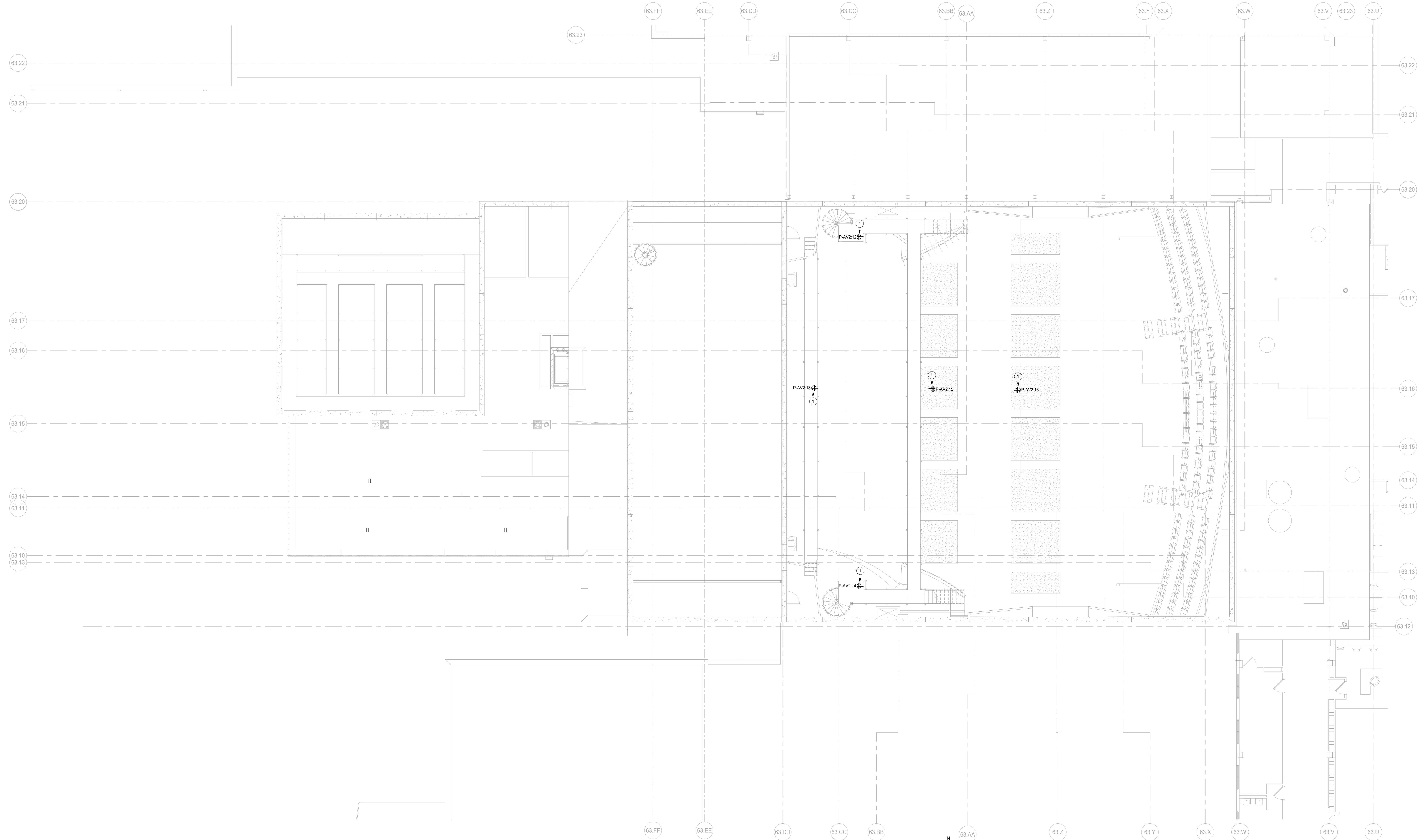
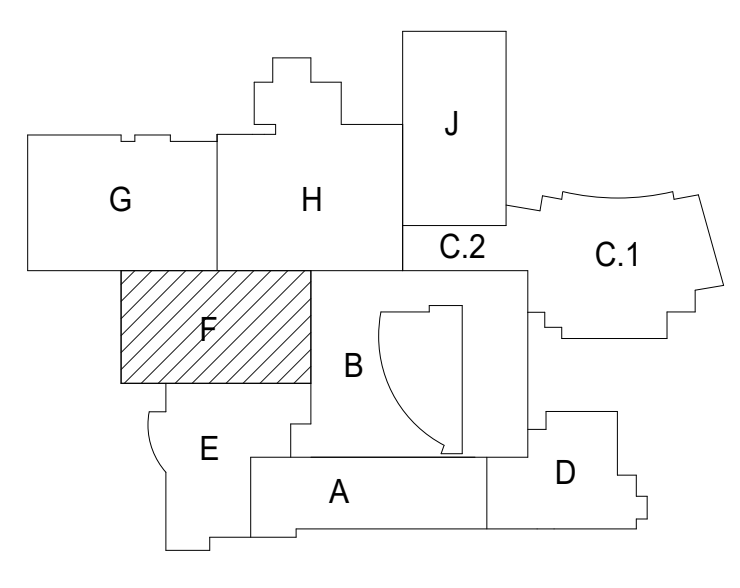
GENERAL NOTES
 1. THESE NOTES APPLICABLE TO ALL POWER PLANS
 2. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4" 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE LINE RECEPTACLES ONLY.
 3. ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 250A/1-POLE CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE.
 4. THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, SECURITY, AUDIO/VISUAL, VOICE, AND DATA CABLING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILING.
 5. BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
 6. CIRCUIT NUMBERS WHERE SHOWN ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
 7. UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
 8. REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
 9. ANY ELECTRICAL DEVICES ON NEW WALLS SHALL BE FLUSH MOUNTED. NO WIREMOLDS ARE ACCEPTABLE ON NEW WALLS UNLESS NOTED OTHERWISE.
 10. VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.
 11. LOW VOLTAGE WIRING SHALL NOT LIE ON TOP OF CEILING GRID SYSTEM. WIRING SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 5 FEET BY UTILIZING HOOKS SUPPORTED BY STRUCTURAL MEMBERS. WIRING SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS.
 12. PROVIDE PULL BOXES BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.28 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) BETWEEN PULL POINTS.
 13. SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL, PRIOR TO INSTALLATION.
 14. CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE THE AREAS ACCEPTABLE WHEN BREAKERS ARE "SLAB RATED" FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM. WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE A DEDICATED NEUTRAL FOR EACH UNGROUNDED CONDUCTOR.
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 16. IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWINGS TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LIGHTING FIXTURES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MOVED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.
 17. THE CONTRACTOR SHALL VISIT THE BUILDING, BEFORE SUBMITTING HIS BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK.
 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRE TO ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LIGHTING FIXTURES, RECEPTACLES, EQUIPMENT DEVICES, ETC. PULL OUT ALL UNUSED CONDUCTORS AND CABLES. REMOVE ALL ABANDONED CONDUIT, ELECTRICALLY DISCONNECT AIR HANDLING UNITS, ELECTRICAL WATER HEATERS, AND EQUIPMENT FOR REMOVAL BY OTHERS. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
 19. REFER TO THE MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ALL MECHANICAL EQUIPMENT THAT IS TO BE ELECTRONICALLY DISCONNECTED OR REMOVED.
 20. THIS CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL DOWN STREAM ELECTRICAL DEVICES AFFECTED BY THE DEMOLITION SHALL BE IN FULL OPERATION AFTER WORK IS COMPLETE.
 21. THE OWNER SHALL HAVE FULL SALVAGE RIGHTS OVER ANY ELECTRICAL DEVICES THAT ARE SCHEDULED TO BE DEMOLISHED. COORDINATE IN FIELD WITH OWNER.
 22. TO CONTROL ALL THE SINGLE PHASE FANS AND PUMP PROVIDE MANUAL MOTOR STARTER THERMAL OVERLOAD SWITCH AND 120V/250AMPS CONTROL RELAY/CONTACTOR TO CONTROL PUMP/FAN (VERIFY CONTROL VOLTAGE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR).
 23. REFER TO ACI SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
 24. REFER TO SPECIFICATION SECTION 260305 FOR ELECTRICAL BOX PUTTY PAD REQUIREMENTS FOR ACOUSTICALLY CRITICAL AND ACOUSTICALLY SENSITIVE WALLS AND PARTITIONS AS DEFINED IN THE ACI SERIES DRAWINGS.



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1 CAT WALK POWER PLAN AREA F
 SCALE: 1/8" = 1'-0"

**NOT FOR
 CONSTRUCTION**

36	ISSUED FOR ADDENDUM 2 - BGR	12.04.2019
35	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
REV	ISSUE	DATE

**MFP
 IMPLEMENTATION -
 SOUTH**

1436 NORFOLK STREET
 DOWNERS GROVE, IL 60516

**CAT WALK POWER PLAN
 AREA F**

Project Number:
 5274-42
 Drawn By:
 Author
 Sheet:

E2.03CF

12/04/2019 9:51:33 AM
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COORDINATION NOTE
REFER TO THEATRE DRAWINGS, PERFORMANCE AV/ THEATRE AV DRAWINGS, AND AC SERIES DRAWINGS FOR ADDITIONAL SCOPE OF WORK AND DETAILS. THIS NOTE IS APPLICABLE TO ALL THE LEVELS.

SYMBOL LEGEND
E- EXISTING TO REMAIN
N- NEW
R- EXISTING TO BE REMOVED
RE- NEW LOCATION OF EXISTING RELOCATED EQUIPMENT

KEYNOTES
1. DISPLAY POWER OUTLET. REFER TO AV DRAWINGS FOR MORE DETAILS.
2. REFER TO THEATRE AV DRAWINGS FOR MORE DETAILS AND EXACT LOCATION.
3. GALLERY I/O POWER OUTLET. REFER TO THEATRE AV DRAWINGS FOR MORE DETAILS AND EXACT LOCATION.
4. POWER FOR DFSS EXTERIOR UNIT. COORDINATE WITH MANUFACTURER FOR ELECTRICAL INTERCONNECTION WITH THE INTERNAL UNIT PRIOR TO START.

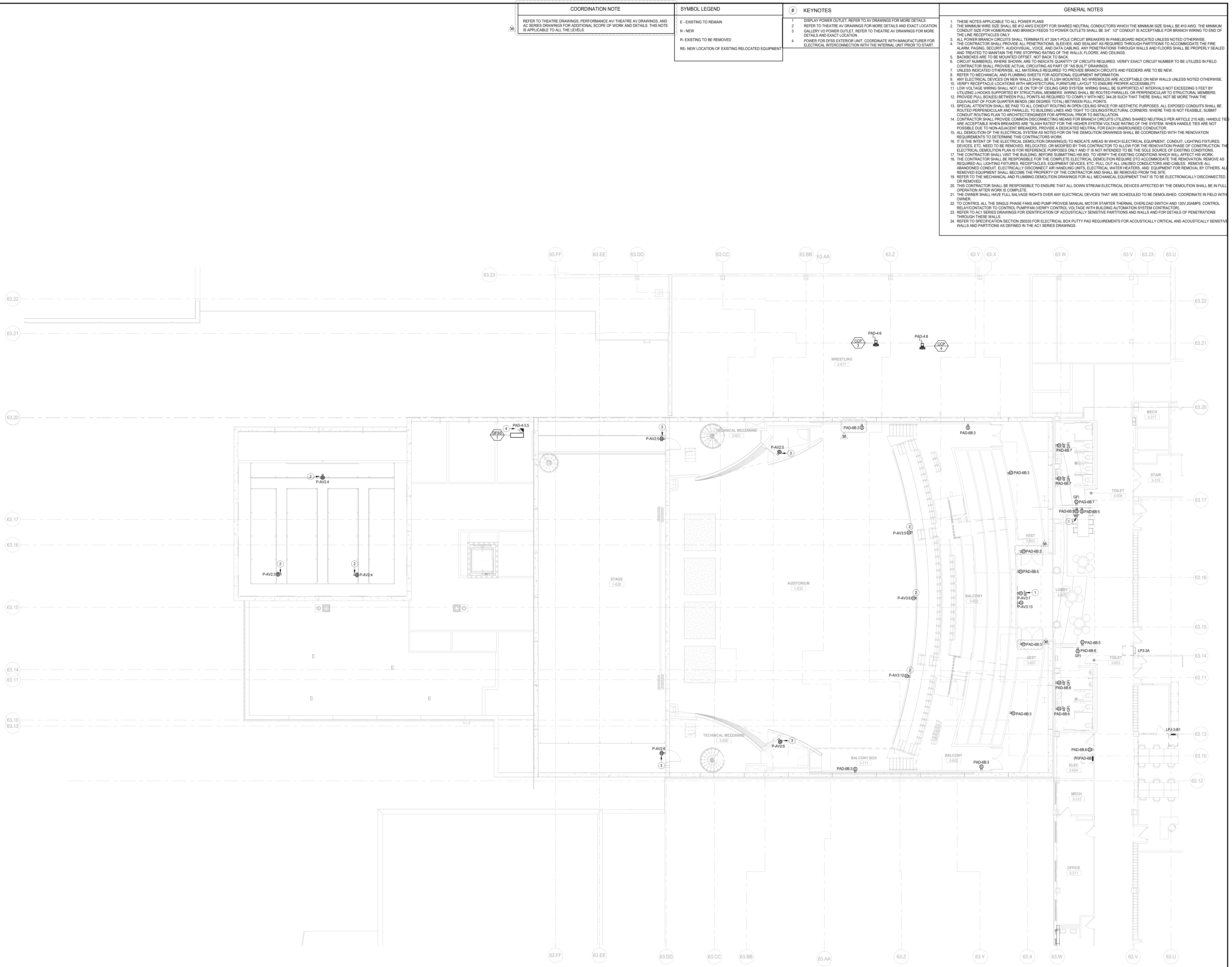
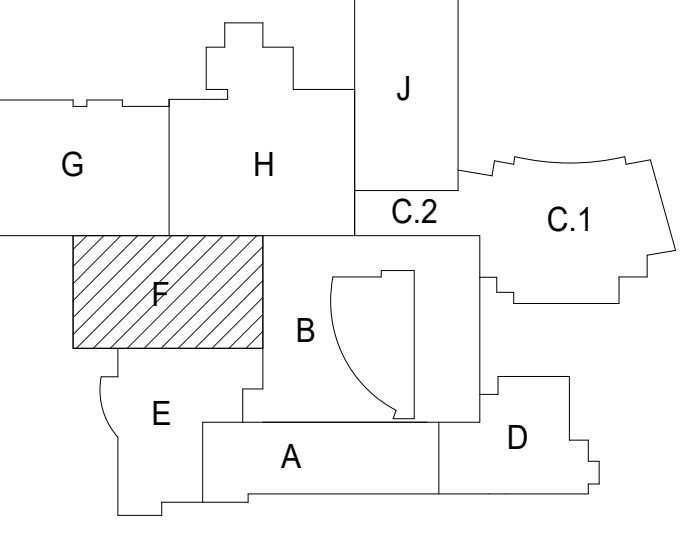
GENERAL NOTES
1. THESE NOTES APPLICABLE TO ALL POWER PLANS.
2. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR RIGID RUN AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4" 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE LINE RECEPTACLES ONLY.
3. ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 250V 1-POLE CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE.
4. THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALS AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, SECURITY, AUDIO/VISUAL, VOICE, AND DATA CABLING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILINGS.
5. BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
6. CIRCUIT NUMBERS, WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
7. UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
8. REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
9. ANY ELECTRICAL DEVICES ON NEW WALLS SHALL BE FLUSH MOUNTED. NO WIREMOLDS ARE ACCEPTABLE ON NEW WALLS UNLESS NOTED OTHERWISE.
10. VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.
11. LOW VOLTAGE WIRING SHALL NOT LIE ON TOP OF CEILING GRID SYSTEM. WIRING SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 5 FEET BY UTILIZING JACKS SUPPORTED BY STRUCTURAL MEMBERS. WIRING SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS.
12. PROVIDE PULL BOXES BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.26 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) BETWEEN PULL POINTS.
13. SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
14. CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE "SLAB RATED" FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM. WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE A DEDICATED NEUTRAL FOR EACH UNGROUNDED CONDUCTOR.
15. ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED FOR ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTORS WORK.
16. IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWINGS TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LIGHTING FIXTURES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MODIFIED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.
17. THE CONTRACTOR SHALL VISIT THE BUILDING BEFORE SUBMITTING HIS BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRE TO ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LIGHTING FIXTURES, RECEPTACLES, EQUIPMENT DEVICES, ETC. PULL OUT ALL UNUSED CONDUCTORS AND CABLES. REMOVE ALL ABANDONED CONDUIT. ELECTRICALLY DISCONNECT AIR HANDLING UNITS, ELECTRICAL WATER HEATERS, AND EQUIPMENT FOR REMOVAL BY OTHERS. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
19. REFER TO THE MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ALL MECHANICAL EQUIPMENT THAT IS TO BE ELECTRONICALLY DISCONNECTED OR REMOVED.
20. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL DOWN STREAM ELECTRICAL DEVICES AFFECTED BY THE DEMOLITION SHALL BE IN FULL OPERATION AFTER WORK IS COMPLETE.
21. THE OWNER SHALL HAVE FULL SALVAGE RIGHTS OVER ANY ELECTRICAL DEVICES THAT ARE SCHEDULED TO BE DEMOLISHED. COORDINATE IN FIELD WITH OWNER.
22. TO CONTROL ALL THE SINGLE PHASE FANS AND PUMP PROVIDE MANUAL MOTOR STARTER THERMAL OVERLOAD SWITCH AND 120V 20AMPS. CONTROL RELAY/CONTACTOR TO CONTROL PUMP/FAN (VERIFY CONTROL VOLTAGE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR).
23. REFER TO ACT SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
24. REFER TO SPECIFICATION SECTION 260355 FOR ELECTRICAL BOX PUTTY PAD REQUIREMENTS FOR ACOUSTICALLY CRITICAL AND ACOUSTICALLY SENSITIVE WALLS AND PARTITIONS AS DEFINED IN THE ACT SERIES DRAWINGS.



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1 THIRD FLOOR POWER PLAN AREA F
SCALE: 1/8" = 1'-0"

**NOT FOR
CONSTRUCTION**

REV	ISSUE	DATE
36	ISSUED FOR ADDENDUM 2 - BGS	12.04.2019
	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 90% CD - PHASE C	11.01.2019
	ISSUED FOR 75% CD - PHASE C	10.14.2019
	ISSUED FOR 50% CD - PHASE C	10.02.2019
	ISSUED FOR 25% CD - PHASE C	08.30.2019

**MFP
IMPLEMENTATION -
SOUTH**

1436 NORFOLK STREET
DOWNERS GROVE, IL 60616

**THIRD FLOOR POWER
PLAN AREA F**

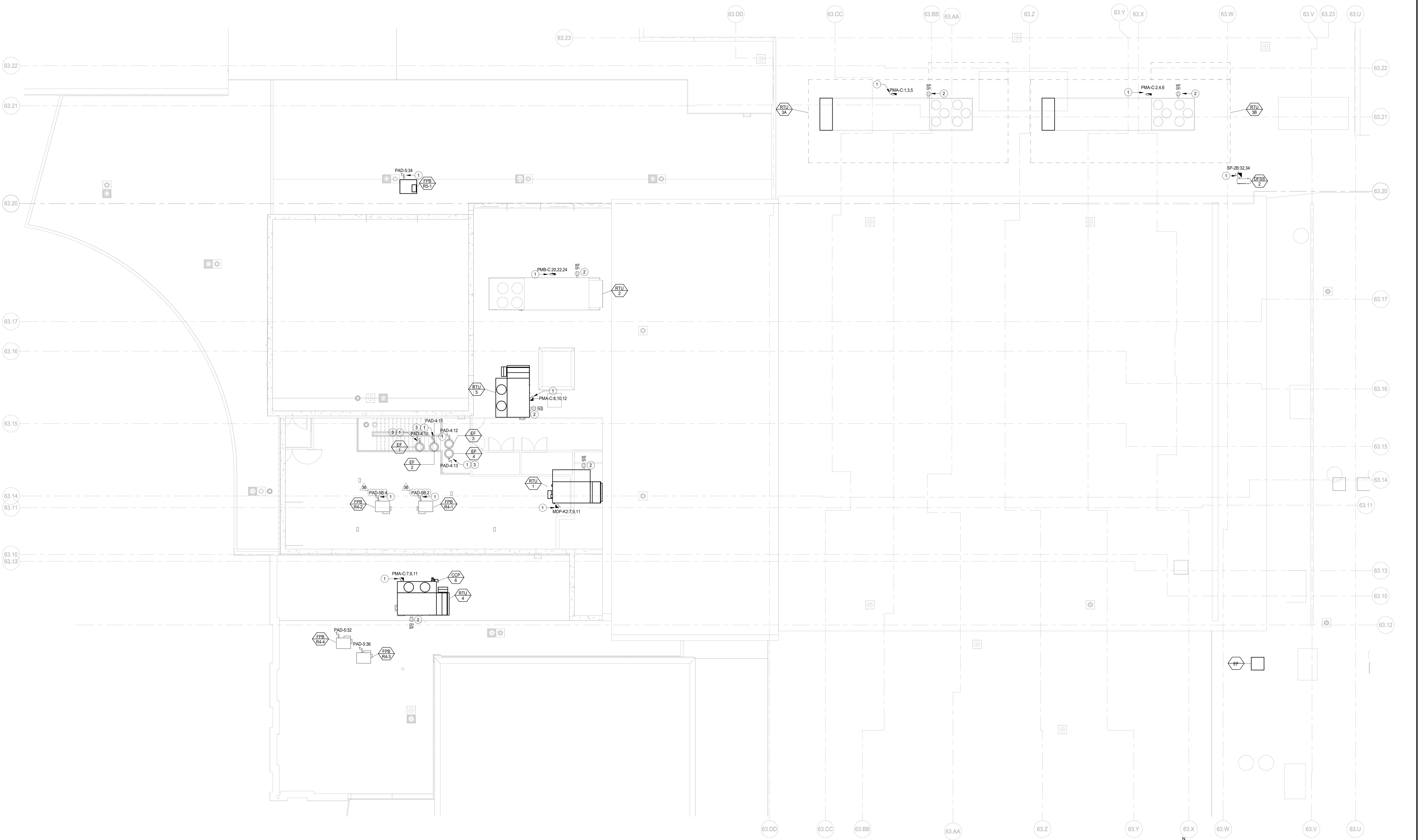
Project Number:
5274-42
Drawn By:
Author
Sheet:

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#	KEYNOTES
1	POWER FOR THE HVAC EQUIPMENT. COORDINATE WITH HVAC DRAWINGS FOR EXACT LOCATION OF THE EQUIPMENTS AND FOR MORE DETAILS OF THE REQUIREMENTS FOR POWER CONNECTION.
2	POWER FOR UNIT LIGHTS. COORDINATE THE EXACT LOCATION OF THE POINT OF POWER CONNECTION WITH THE MANUFACTURER PRIOR TO START. PROVIDE 120V-1 PHASE POWER CONNECTION FOR MAINTENANCE RECEPTACLE FROM THE NEAREST 120V POWER CIRCUIT SERVING THE AREA. PROVIDE AUXILIARY CONTROL RELAY TO THE LIGHTING OCCUPANCY SENSOR FOR THE CONTROL OF THE EXHAUST FAN.
3	

#	GENERAL NOTES
1	THESE NOTES APPLICABLE TO ALL POWER PLANS.
2	THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR RERUNNERS AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4" 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE WIRE RECEPTACLES ONLY.
3	ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 20kV-POLE CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE.
4	THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, SECURITY, AUDIO/VIDEO, VOICE, AND DATA CABLING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE STORING RATINGS OF THE WALLS, FLOORS, AND CEILING.
5	BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
6	CIRCUIT NUMBERS, WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
7	UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
8	REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
9	ANY ELECTRICAL DEVICES ON NEW WALLS SHALL BE FLUSH MOUNTED. NO WIREMOLDS ARE ACCEPTABLE ON NEW WALLS UNLESS NOTED OTHERWISE.
10	VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.
11	LOW VOLTAGE WIRING SHALL NOT LIE ON TOP OF CEILING GRID SYSTEM. WIRING SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 5 FEET BY UTILIZING LADDERS SUPPORTED BY STRUCTURAL MEMBERS. WIRING SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS.
12	PROVIDE FULL BOX(S) BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.28 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) BETWEEN PULL POINTS.
13	SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPENING SPACES FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEERS FOR APPROVAL PRIOR TO INSTALLATION.
14	CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE SLASH RATED FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS. PROVIDE A DEDICATED NEUTRAL FOR EACH UNGROUNDED CONDUCTOR.
15	ALL DEMOLITION OF THE ELECTRICAL SYSTEM AS NOTED FOR ON THE DEMOLITION DRAWINGS SHALL BE COORDINATED WITH THE RENOVATION REQUIREMENTS TO DETERMINE THIS CONTRACTORS WORK.
16	IT IS THE INTENT OF THE ELECTRICAL DEMOLITION DRAWING(S) TO INDICATE AREAS IN WHICH ELECTRICAL EQUIPMENT, CONDUIT, LIGHTING FIXTURES, DEVICES, ETC. NEED TO BE REMOVED, RELOCATED, OR MODIFIED BY THIS CONTRACTOR TO ALLOW FOR THE RENOVATION PHASE OF CONSTRUCTION. THE ELECTRICAL DEMOLITION PLAN IS FOR REFERENCE PURPOSES ONLY AND IT IS NOT INTENDED TO BE THE SOLE SOURCE OF EXISTING CONDITIONS.
17	THE CONTRACTOR SHALL VISIT THE BUILDING BEFORE SUBMITTING HIS BID, TO VERIFY THE EXISTING CONDITIONS WHICH WILL AFFECT HIS WORK.
18	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ELECTRICAL DEMOLITION REQUIRE TO ACCOMMODATE THE RENOVATION. REMOVE AS REQUIRED ALL LIGHTING FIXTURES, RECEPTACLES, EQUIPMENT DEVICES, ETC. PULL OUT ALL UNUSED CONDUCTORS AND CABLES. REMOVE ALL ABANDONED CONDUIT. ELECTRICALLY DISCONNECT AIR HANDLING UNITS, ELECTRICAL WATER HEATERS, AND EQUIPMENT FOR REMOVAL BY OTHERS. ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.
19	REFER TO THE MECHANICAL AND PLUMBING DEMOLITION DRAWINGS FOR ALL MECHANICAL EQUIPMENT THAT IS TO BE ELECTRICALLY DISCONNECTED OR REMOVED.
20	THIS CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL DOWN STREAM ELECTRICAL DEVICES AFFECTED BY THE DEMOLITION SHALL BE IN FULL OPERATION AFTER WORK IS COMPLETE.
21	THE OWNER SHALL HAVE FULL SALVAGE RIGHTS OVER ANY ELECTRICAL DEVICES THAT ARE SCHEDULED TO BE DEMOLISHED. COORDINATE IN FIELD WITH OWNER.
22	TO CONTROL ALL THE SINGLE PHASE FANS AND PUMP PROVIDE MANUAL MOTOR STARTER THERMAL OVERLOAD SWITCH AND 120V/20AMPS. CONTROL RELAY/CONTACTOR TO CONTROL PUMP/FAN (VERIFY CONTROL VOLTAGE WITH BUILDING AUTOMATION SYSTEM CONTRACTOR).
23	REFER TO ACI SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
24	REFER TO SPECIFICATION SECTION 260355 FOR ELECTRICAL BOX PUTTY PAD REQUIREMENTS FOR ACOUSTICALLY CRITICAL AND ACOUSTICALLY SENSITIVE WALLS AND PARTITIONS AS DEFINED IN THE ACI SERIES DRAWINGS.



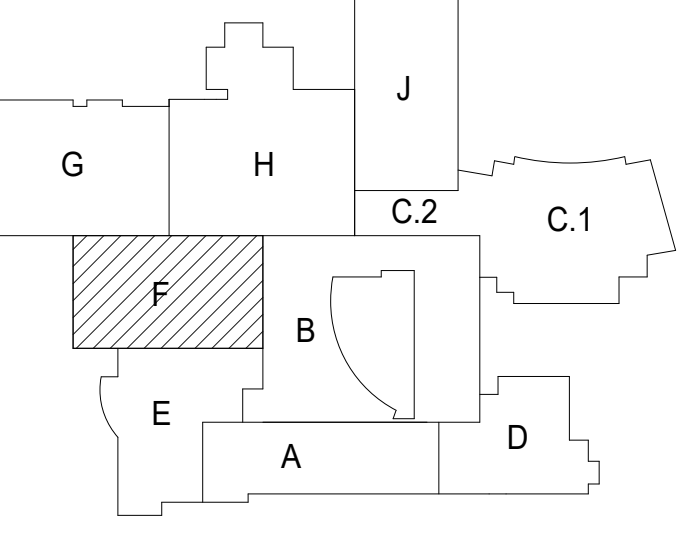
1 ROOF POWER PLAN AREA F
SCALE: 1/8" = 1'-0"



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REV	ISSUE	DATE
36	ISSUED FOR ADDENDUM 2 - BGS	12.04.2019
	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 90% CD - PHASE C	11.01.2019
	ISSUED FOR 75% CD - PHASE C	10.14.2019
	ISSUED FOR 50% CD - PHASE C	10.02.2019
	ISSUED FOR 25% CD - PHASE C	08.30.2019

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60616

ROOF POWER PLAN AREA F

Project Number:
5274-42
Drawn By:
Author
Sheet:

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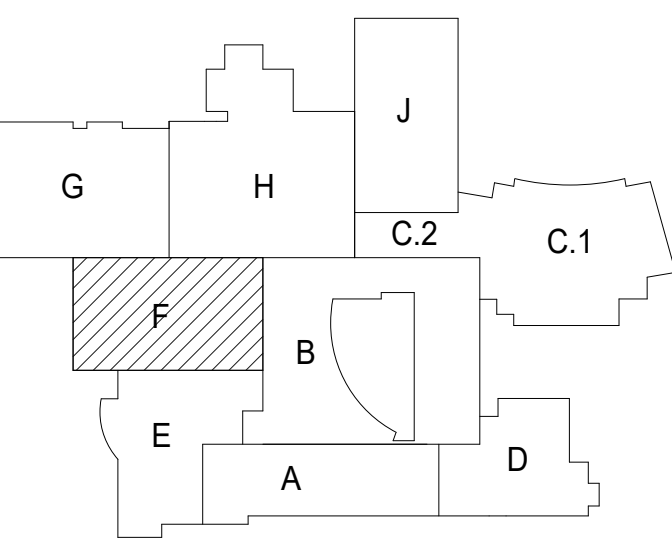
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CONSTRUCTION**

36 ISSUED FOR ADDENDUM 2 - BGR 12.04.2019
ISSUED FOR BID GROUP 8 - PHASE C 11.20.2019
ISSUED FOR 90% QCD - PHASE C 11.01.2019
REV DATE

**MFP
IMPLEMENTATION -
SOUTH**

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

**LOWER LEVEL LIGHTING
PLAN AREA F**

Project Number:
5274-42
Drawn By:
Author
Sheet:

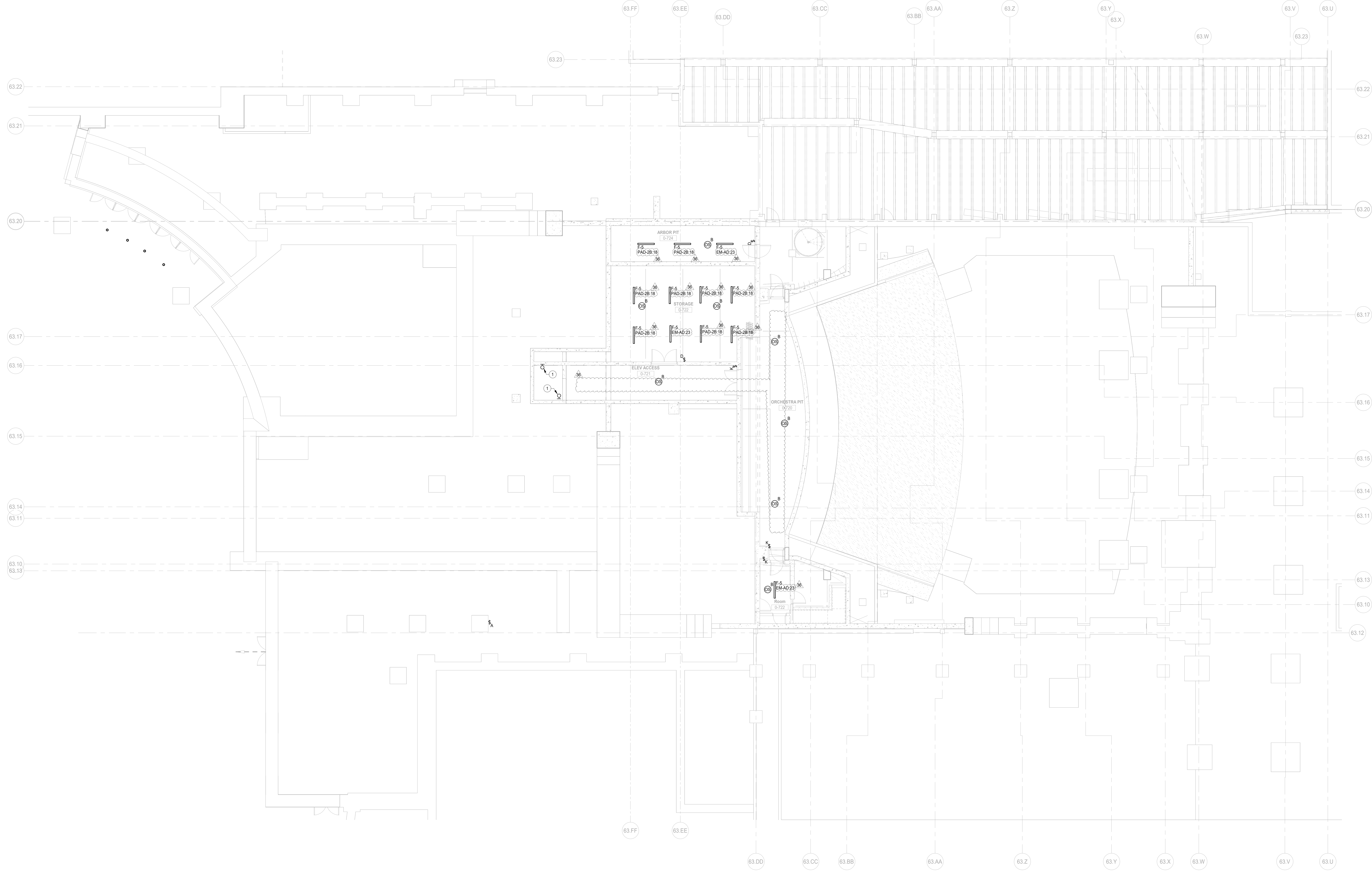
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KEYNOTES

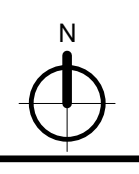
1. PROVIDE LITHONIA LIGHTING QLV1VM TYPE 4009K/MVOLT1 TYPE GREY COLOR JELLY JAR FIXTURE. PROVIDE NEW 120V LIGHTING CIRCUIT FROM NEAREST PANEL AND SWITCH NEAR THE LADDER.

GENERAL NOTES

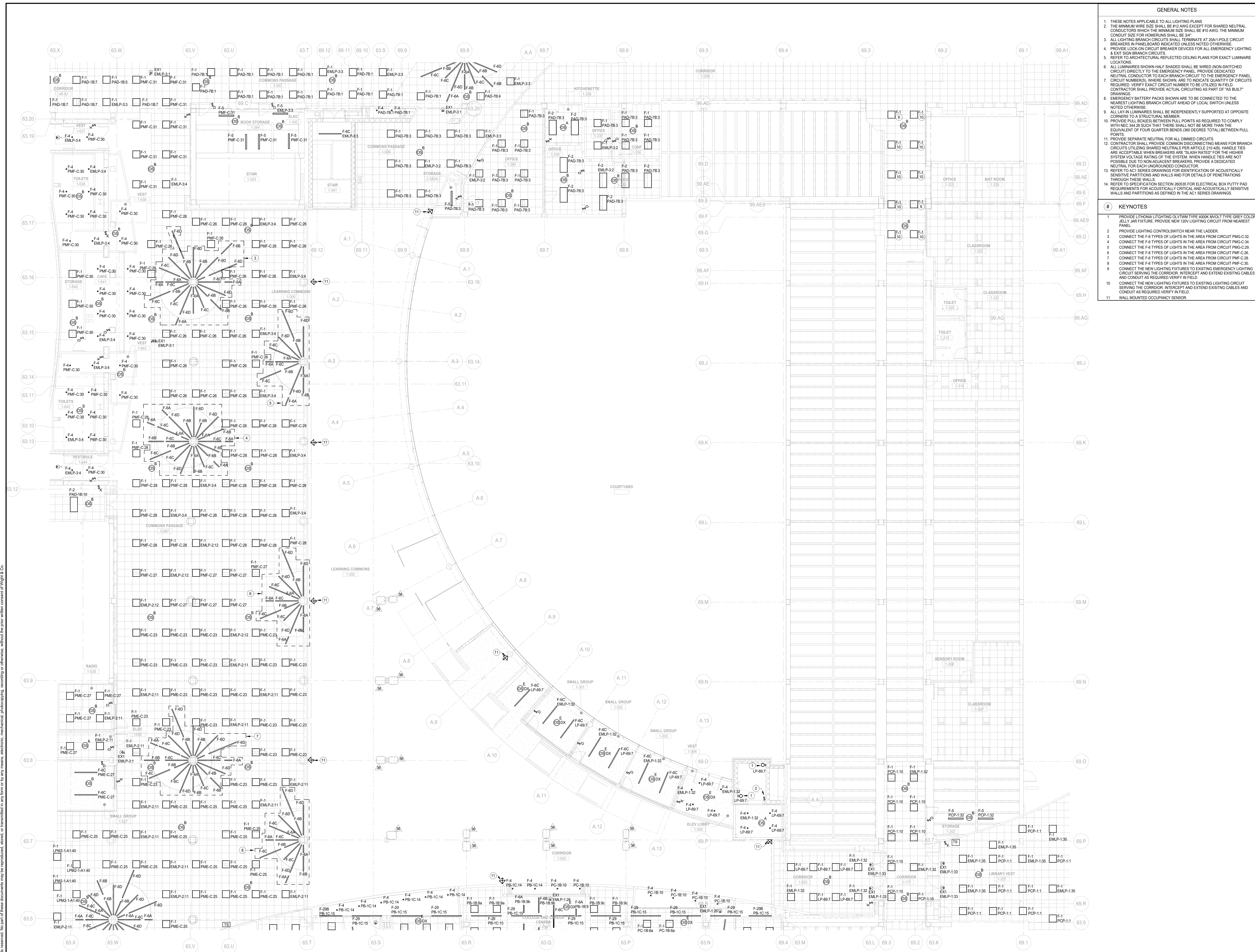
1. THESE NOTES APPLICABLE TO ALL LIGHTING PLANS.
2. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS SHALL BE 3/4".
3. ALL LIGHTING BRANCH CIRCUITS SHALL TERMINATE AT 200V POLE CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE.
4. PROVIDE LOCK ON CIRCUIT BREAKER DEVICES FOR ALL EMERGENCY LIGHTING & EXIT SIGN BRANCH CIRCUITS.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LUMINAIRE LOCATIONS.
6. ALL LUMINAIRES SHOWN HALF SHADED SHALL BE WIRED (NON SWITCHED CIRCUIT) DIRECTLY TO THE EMERGENCY PANEL. PROVIDE DEDICATED NEUTRAL CONDUCTOR TO EACH BRANCH CIRCUIT TO THE EMERGENCY PANEL.
7. CIRCUIT NUMBERS WHERE SHOWN ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBERS TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
8. EMERGENCY BATTERY PACKS SHOWN ARE TO BE CONNECTED TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF LOCAL SWITCH UNLESS NOTED OTHERWISE.
9. ALL LAY-IN LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED AT OPPOSITE CORNERS TO A STRUCTURAL MEMBER.
10. PROVIDE PULL BOX(ES) BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 304.26 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) BETWEEN PULL POINTS.
11. PROVIDE SEPARATE NEUTRAL FOR ALL DIMMED CIRCUITS.
12. CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE "SLASH RATED" FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM. WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE A DEDICATED NEUTRAL FOR EACH UNGROUNDED CONDUCTOR.
13. REFER TO AC1 SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
14. REFER TO SPECIFICATION SECTION 260305 FOR ELECTRICAL BOX PUTTY PAD REQUIREMENTS FOR ACOUSTICALLY CRITICAL AND ACOUSTICALLY SENSITIVE WALLS AND PARTITIONS AS DEFINED IN THE AC1 SERIES DRAWINGS.



1 LOWER LEVEL LIGHTING PLAN AREA F
SCALE: 1/8" = 1'-0"



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- GENERAL NOTES**
1. THESE NOTES APPLICABLE TO ALL LIGHTING PLANS
 2. THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS SHALL BE 3/4".
 3. ALL LIGHTING BRANCH CIRCUITS SHALL TERMINATE AT 20A/1 POLE CIRCUIT BREAKERS IN PANEL BOARD UNLESS NOTED OTHERWISE.
 4. PROVIDE LOCK ON CIRCUIT BREAKER DEVICES FOR ALL EMERGENCY LIGHTING & EXIT SIGN BRANCH CIRCUITS.
 5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LUMINAIRE LOCATIONS.
 6. ALL LUMINAIRES SHOWN HALF SHADED SHALL BE WIRED (NON-SWITCHED CIRCUIT) DIRECTLY TO THE EMERGENCY PANEL. PROVIDE DEDICATED NEUTRAL CONDUCTOR TO EACH BRANCH CIRCUIT TO THE EMERGENCY PANEL. CIRCUIT NUMBERS, WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
 7. EMERGENCY BATTERY PACKS SHOWN ARE TO BE CONNECTED TO THE NEAREST LIGHTING BRANCH CIRCUIT AHEAD OF LOCAL SWITCH UNLESS NOTED OTHERWISE.
 8. ALL LAY IN LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED AT OPPOSITE CORNERS TO A STRUCTURAL MEMBER.
 9. PROVIDE PULL BOXES BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 314.26 (B) THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (90 DEGREE TOTAL) BETWEEN PULL POINTS.
 10. PROVIDE SEPARATE NEUTRAL FOR ALL DIMMED CIRCUITS.
 11. CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE "SLASH RATED" FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM, WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE A DEDICATED NEUTRAL WIRE EACH UNGROUNDED CONDUCTOR.
 12. REFER TO ACI SERIES DRAWINGS FOR IDENTIFICATION OF ACOUSTICALLY SENSITIVE PARTITIONS AND WALLS AND FOR DETAILS OF PENETRATIONS THROUGH THESE WALLS.
 13. REFER TO SPECIFICATION SECTION 260535 FOR ELECTRICAL BOX PUTTY PAD REQUIREMENTS FOR ACOUSTICALLY CRITICAL AND ACOUSTICALLY SENSITIVE WALLS AND PARTITIONS AS DEFINED IN THE ACI SERIES DRAWINGS.
- KEYNOTES**
1. PROVIDE LITHONIA LIGHTING QLV17M TYPE 400K MVOLT TYPE GREY COLOR JELLY JAR FIXTURE. PROVIDE NEW 120V LIGHTING CIRCUIT FROM NEAREST PANEL.
 2. PROVIDE LIGHTING CONTROL SWITCH NEAR THE LADDER.
 3. CONNECT THE F-6 TYPES OF LIGHTS IN THE AREA FROM CIRCUIT PMG-C32.
 4. CONNECT THE F-6 TYPES OF LIGHTS IN THE AREA FROM CIRCUIT PMG-C34.
 5. CONNECT THE F-6 TYPES OF LIGHTS IN THE AREA FROM CIRCUIT PMG-C29.
 6. CONNECT THE F-6 TYPES OF LIGHTS IN THE AREA FROM CIRCUIT PMF-C26.
 7. CONNECT THE F-6 TYPES OF LIGHTS IN THE AREA FROM CIRCUIT PMF-C28.
 8. CONNECT THE F-6 TYPES OF LIGHTS IN THE AREA FROM CIRCUIT PMF-C30.
 9. CONNECT THE NEW LIGHTING FIXTURES TO EXISTING EMERGENCY LIGHTING CIRCUIT SERVING THE CORRIDOR. INTERCEPT AND EXTEND EXISTING CABLES AND CONDUIT AS REQUIRED VERIFY IN FIELD.
 10. CONNECT THE NEW LIGHTING FIXTURES TO EXISTING LIGHTING CIRCUIT SERVING THE CORRIDOR. INTERCEPT AND EXTEND EXISTING CABLES AND CONDUIT AS REQUIRED VERIFY IN FIELD.
 11. WALL MOUNTED OCCUPANCY SENSOR.

DISTRICT 99

COMMUNITY HIGH SCHOOL DISTRICT 99

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36 ISSUED FOR ADDENDUM 2 - BGS 12.04.2019
ISSUED FOR BID GROUP 8 - PHASE C 11.20.2019
ISSUED FOR 90KCD - PHASE C 11.01.2019
ISSUED FOR 75KCD - PHASE C 10.14.2019
ISSUED FOR 50KCD - PHASE C 10.02.2019
ISSUED FOR 25KCD - PHASE C 08.30.2019

REV ISSUE DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

FIRST FLOOR LIGHTING PLAN AREA B

Project Number:
5274-42
Drawn By:
Author
Sheet:

E3.01B-1c

1 FIRST FLOOR LIGHTING PLAN AREA B
SCALE: 1/8" = 1'-0"

10/26/2019 3:51:59 AM
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COORDINATION NOTES:

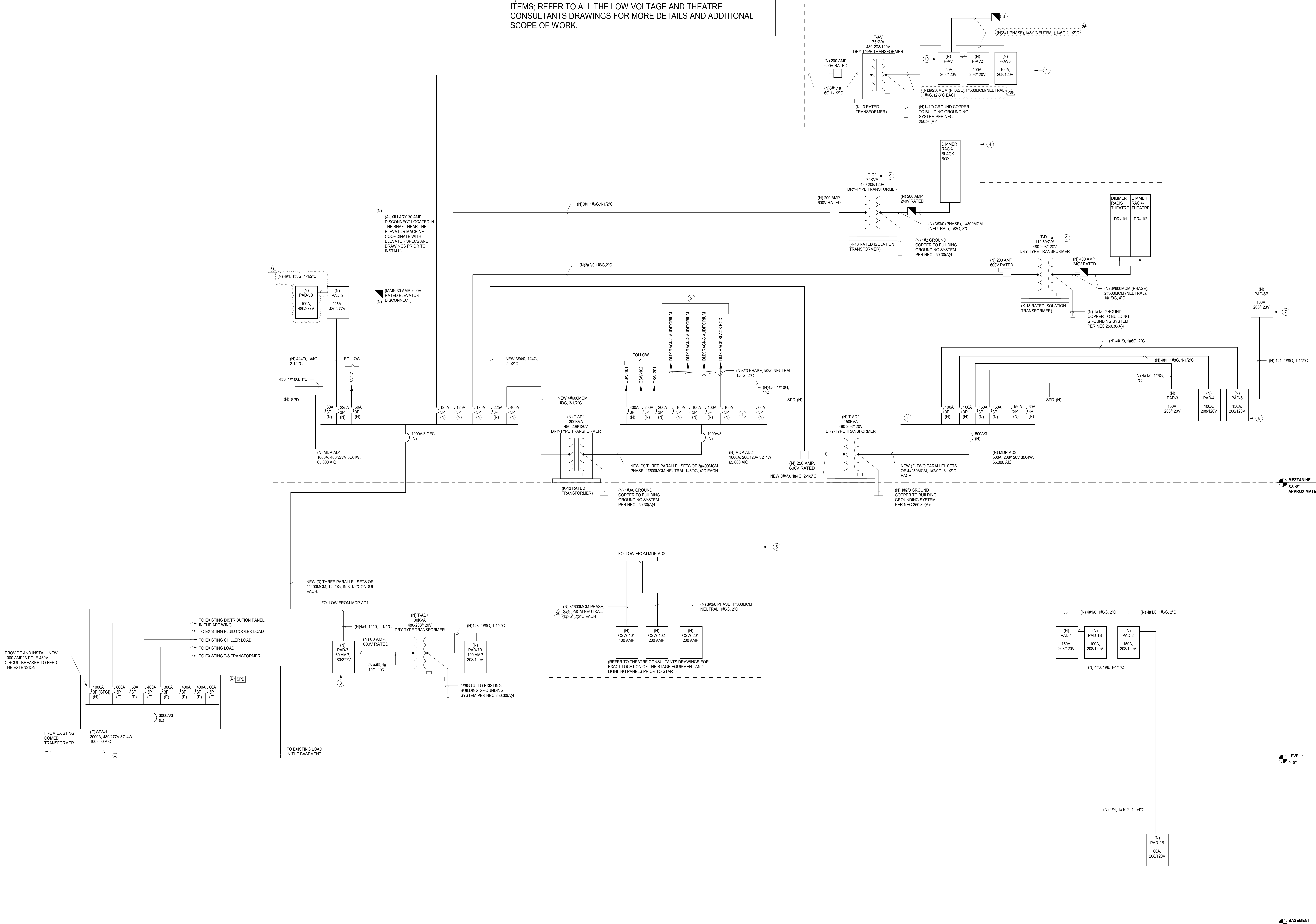
- 1). REFER TO THEATRE CONSULTANT DRAWINGS FOR MORE SCOPE OF WORK, DETAILS, AND EXTENTS OF SCOPE TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
- 2). REFER TO THEATRE AV CONSULTANTS DRAWINGS FOR MORE SCOPE OF WORK, DETAILS, AND EXTENTS OF SCOPE TO BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
- 3) REFER TO THEATRE CONSULTANT, THEATRE AV CONSULTANT DRAWINGS AND SPECIFICATIONS FOR WIRING REQUIREMENTS AND TRANSFORMER TYPES TO BE USED FOR THE THEATRE AND BLACK BOX AREA.
- 4) THE ABOVE LIST IS NOT AN EXHAUSTIVE LIST OF COORDINATION ITEMS; REFER TO ALL THE LOW VOLTAGE AND THEATRE CONSULTANTS DRAWINGS FOR MORE DETAILS AND ADDITIONAL SCOPE OF WORK.

SYMBOL LEGEND

- E- EXISTING TO REMAIN
- N- NEW
- R- EXISTING TO BE REMOVED
- RE- NEW LOCATION OF EXISTING RELOCATED EQUIPMENT

KEYNOTES

- 1 PROVIDE 50% BUSSED SPACE FOR FUTURE. SEE SCHEDULE FOR MORE DETAILS.
- 2 REFER TO AUDITORIUM AND THEATRE CONSULTANT DRAWINGS FOR EXACT LOCATION OF RELAY PANELS, DETAILS AND ADDITIONAL SCOPE OF WORK. AV DRAWINGS FOR MORE DETAILS AND SCOPE.
- 3 100AMP 3 PHASE 208V COMPANY SWITCH WITH ISOLATED GROUND, REFER TO AV DRAWINGS FOR MORE DETAILS AND SCOPE.
- 4 POWER AND LIGHTING INFRASTRUCTURE FOR AUDITORIUM AND THEATRE SPACES. REFER TO THEATRE AND AV SERVICES/PERFORMANCE AV, 36 CONSULTANT DRAWINGS FOR ADDITIONAL SCOPE, EXACT LOCATION, AND DETAILS.
- 5 REFER TO THEATRE CONSULTANT DRAWINGS FOR EXACT REQUIREMENTS, DETAILS, AND LOCATION OF THE COMPANY SWITCHES FOR THE STAGE EQUIPMENTS.
- 6 PANEL LOCATED ON LEVEL-2
- 7 PANEL LOCATED ON LEVEL-3
- 8 PANEL LOCATED ON LEVEL-1 AREA-B ELECTRICAL ROOM.
- 9 TRANSFORMER FEEDING THE DIMMER REACK TO BE TAPPED AT 120 VOLTS LINE TO GROUND.
- 10 PANEL P-418 IS PROVIDED BY AV CONTRACTOR AND INSTALLED BY THIS CONTRACTOR PER SCHEDULE.



1 RISER DIAGRAM-PHASE-C AUDITORIUM AREA
N.T.S.



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36	ISSUED FOR ADDENDUM 2 - BGS	12.04.2019
	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 90KCD - PHASE C	11.01.2019
	ISSUED FOR 75KCD - PHASE C	10.14.2019
	ISSUED FOR 50KCD - PHASE C	10.02.2019
	ISSUED FOR 25KCD - PHASE C	08.30.2019
REV	ISSUE	DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

RISER DIAGRAMS

Project Number:
5274-42
Drawn By:
Author
Sheet:

E5.04c



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36 ISSUED FOR ADDENDUM 2 - B08 12/04/2019
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ISSUED FOR 75%CD - PHASE C 10/14/2019
ISSUED FOR 50%CD - PHASE C 10/02/2019
ISSUED FOR 25%CD - PHASE C 08/30/2019
ISSUED FOR 100% I.D.D 07/12/2019
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MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

SCHEDULES

Project Number: 5274-42
Drawn By: Author
Sheet: E6.01c

PANELBOARD: LP3-2A. LOCATION: CORRIDOR 2-309. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: RECESSED NEMA1. MAIN DEVICE: 150 A MCB. BUS AMPS: 225 AMPS. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CKT, P, BKR, LOAD DESCRIPTION. Includes table with 10 columns and 20 rows of load data.

PANELBOARD: PL-1C. LOCATION: ELEC 1-342. VOLTAGE: 480/277 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA1. MAIN DEVICE: 150 A MCB. BUS AMPS: 225 AMPS. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CKT, P, BKR, LOAD DESCRIPTION. Includes table with 10 columns and 20 rows of load data.

DISTRIBUTION PANEL: SES-1. LOCATION: 120/208 Wye V, 3 ø 4 W. VOLTAGE: 480/277 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA1. MAIN DEVICE: 3000 A. BUS AMPS: 3000 A. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CKT, P, BKR, LOAD DESCRIPTION. Includes table with 10 columns and 20 rows of load data.

DISTRIBUTION PANEL: MDP-L. LOCATION: ELEC 1-342. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA1. MAIN DEVICE: 400 A MCB. BUS AMPS: 400 AMPS. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CKT, P, BKR, LOAD DESCRIPTION. Includes table with 10 columns and 20 rows of load data.

PANELBOARD: PMB-C. LOCATION: ELEC 2-617. VOLTAGE: 480/277 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA1. MAIN DEVICE: 400 A MAIN CB. BUS AMPS: 400 AMPS. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CKT, P, BKR, LOAD DESCRIPTION. Includes table with 10 columns and 20 rows of load data.

PANELBOARD: PMAC. LOCATION: SURFACE NEMA 1. VOLTAGE: 480/277 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 500 A MAIN CB. BUS AMPS: 600 AMPS. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CKT, P, BKR, LOAD DESCRIPTION. Includes table with 10 columns and 20 rows of load data.

DISTRIBUTION PANEL: MDP-M. LOCATION: MECH 2-500. VOLTAGE: 480/277 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA1. MAIN DEVICE: 2000 AMPS. BUS AMPS: 2000 AMPS. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CKT, P, BKR, LOAD DESCRIPTION. Includes table with 10 columns and 20 rows of load data.

PANELBOARD: LP3-3A. LOCATION: CORRIDOR 3-309. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: RECESSED NEMA1. MAIN DEVICE: 225 A MCB. BUS AMPS: 225 AMPS. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CKT, P, BKR, LOAD DESCRIPTION. Includes table with 10 columns and 20 rows of load data.

PANELBOARD: PMF-C. LOCATION: STORAGE 1-640. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 150 A MAIN CB. BUS AMPS: 200 AMPS. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CKT, P, BKR, LOAD DESCRIPTION. Includes table with 10 columns and 20 rows of load data.

PANELBOARD: PME-C. LOCATION: ELEC 1529. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA1. MAIN DEVICE: 150 A MCB. BUS AMPS: 225 AMPS. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CKT, P, BKR, LOAD DESCRIPTION. Includes table with 10 columns and 20 rows of load data.

PANELBOARD: PMD-C. LOCATION: ELEC 1529. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 250 A MAIN CB. BUS AMPS: 400 AMPS. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CKT, P, BKR, LOAD DESCRIPTION. Includes table with 10 columns and 20 rows of load data.

PANELBOARD: PMC-C. LOCATION: ELEC 1529. VOLTAGE: 480/277 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 225 A MAIN CB. BUS AMPS: 225 AMPS. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CKT, P, BKR, LOAD DESCRIPTION. Includes table with 10 columns and 20 rows of load data.

12/04/2019 3:52:07 AM
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PANELBOARD: MDP-B. LOCATION: ELEC 1-117. VOLTAGE: 120/208 Wye V, 3 Ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 400 A MAIN CB. BUS AMPS: 400 AMPS. A.I.C. RATING: 65,000 AMPS SYMMETRICAL. SPECIAL: EXISTING PANEL. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CT, P, BKR, LOAD DESCRIPTION. Includes tables for LOAD CLASSIFICATION and PANEL TOTALS.

PANELBOARD: PB-1C. LOCATION: ELEC ROOM 1-105. VOLTAGE: 120/208 Wye V, 3 Ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 400 A MAIN CB. BUS AMPS: 400 AMPS. A.I.C. RATING: 22,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CT, P, BKR, LOAD DESCRIPTION. Includes tables for LOAD CLASSIFICATION and PANEL TOTALS.

DISTRIBUTION PANEL: MDP-AD1. LOCATION: ELEC 1-107. VOLTAGE: 480/277 Wye V, 3 Ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 1000 A MLO. BUS AMPS: 1200 AMPS. A.I.C. RATING: 85,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CT, P, BKR, LOAD DESCRIPTION. Includes tables for LOAD CLASSIFICATION and PANEL TOTALS.

PANELBOARD: PAD-5. LOCATION: SURFACE NEMA 1. VOLTAGE: 480/277 Wye V, 3 Ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 225 A MLO. BUS AMPS: 225 AMPS. A.I.C. RATING: 14,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CT, P, BKR, LOAD DESCRIPTION. Includes tables for LOAD CLASSIFICATION and PANEL TOTALS.

PANELBOARD: PAD-7. LOCATION: SURFACE NEMA 1. VOLTAGE: 480/277 Wye V, 3 Ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 60 A MAIN CB. BUS AMPS: 100 AMPS. A.I.C. RATING: 14,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CT, P, BKR, LOAD DESCRIPTION. Includes tables for LOAD CLASSIFICATION and PANEL TOTALS.

PANELBOARD: PAD-7B. LOCATION: SURFACE NEMA 1. VOLTAGE: 120/208 Wye V, 3 Ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 100 A MAIN CB. BUS AMPS: 100 AMPS. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CT, P, BKR, LOAD DESCRIPTION. Includes tables for LOAD CLASSIFICATION and PANEL TOTALS.

PANELBOARD: P-AV. LOCATION: SURFACE NEMA 1. VOLTAGE: 120/208 Wye V, 3 Ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 250 A MAIN CB. BUS AMPS: 400 AMPS. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: PANEL PROVIDED BY AV INTEGRATOR. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CT, P, BKR, LOAD DESCRIPTION. Includes tables for LOAD CLASSIFICATION and PANEL TOTALS.

PANELBOARD: P-AV2. LOCATION: SURFACE NEMA 1. VOLTAGE: 120/208 Wye V, 3 Ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 100 A MAIN CB. BUS AMPS: 225 AMPS. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL - 200% RATED NEUTRAL (AND ISOLATED GROUND BUS). LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CT, P, BKR, LOAD DESCRIPTION. Includes tables for LOAD CLASSIFICATION and PANEL TOTALS.

PANELBOARD: P-AV3. LOCATION: CONTROL ROOM 2-412. VOLTAGE: 120/208 Wye V, 3 Ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 100 A MAIN CB. BUS AMPS: 225 AMPS. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL - 200% RATED NEUTRAL WITH ISOLATED GROUND BUS. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CT, P, BKR, LOAD DESCRIPTION. Includes tables for LOAD CLASSIFICATION and PANEL TOTALS.

DISTRIBUTION PANEL: MDP-AD3. LOCATION: SURFACE NEMA 1. VOLTAGE: 120/208 Wye V, 3 Ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 500 A MLO. BUS AMPS: 600 AMPS. A.I.C. RATING: 65,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. SECTION No. 1. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CT, P, BKR, LOAD DESCRIPTION. Includes tables for LOAD CLASSIFICATION and PANEL TOTALS.

PANELBOARD: PAD-6. LOCATION: ELEC 2-617. VOLTAGE: 120/208 Wye V, 3 Ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 150 A MAIN CB. BUS AMPS: 225 AMPS. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CT, P, BKR, LOAD DESCRIPTION. Includes tables for LOAD CLASSIFICATION and PANEL TOTALS.

PANELBOARD: PAD-6B. LOCATION: SURFACE NEMA 1. VOLTAGE: 120/208 Wye V, 3 Ø 4 W. MOUNTING: SURFACE NEMA 1. MAIN DEVICE: 100 A MCB. BUS AMPS: 100 AMPS. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. LOAD DESCRIPTION, BKR, P, CKT, PHASE A, PHASE B, PHASE C, CT, P, BKR, LOAD DESCRIPTION. Includes tables for LOAD CLASSIFICATION and PANEL TOTALS.

DISTRICT 99 COMMUNITY HIGH SCHOOL DISTRICT 99. Wight & Company logo. Address: 2500 North Frontage Road, Darien, IL 60661. Phone: P 630.969.7000, F 630.969.7979. Includes a site map showing building layout (A-J) and an arrow pointing North.

NOT FOR CONSTRUCTION. 36 ISSUED FOR ADDENDUM 2 - BGS. 12.04.2019. 36 ISSUED FOR BID GROUP 8 - PHASE C. 11.20.2019. 36 ISSUED FOR 750CQ - PHASE C. 10.14.2019. 36 ISSUED FOR 500CQ - PHASE C. 10.10.2019. 36 ISSUED FOR 250CQ - PHASE C. 08.30.2019. Project Number: 5274-42. Drawn by: Author. Sheet: E6.02c. MFP IMPLEMENTATION - SOUTH. 1436 NORFOLK STREET, DOWNERS GROVE, IL 60616. SCHEDULES.

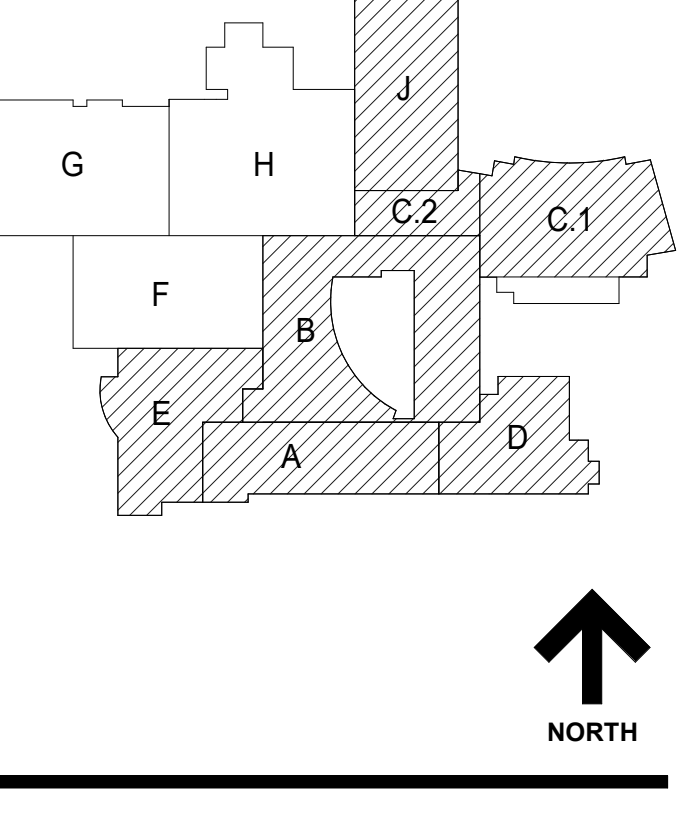
12/4/2019 3:50:10 AM C:\Users\shahm\Documents\10-5274-42_DGS_MFP-F7_2019_Central_ghsahm\wightco.com.vnt Wight & Co. © Copyright 2018 All rights reserved. No part of these documents may be reproduced, stored, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written consent of Wight & Co.



COMMUNITY HIGH SCHOOL DISTRICT 99



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PANELBOARD: PAD-4. LOCATION: TOILET 4-605. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL PROVIDE 200% RATED NEUTRAL. MAIN DEVICE: 150 A MAIN CB. BUS AMPS: 225 AMPS.

PANELBOARD: PAD-3. LOCATION: TOILET 4-605. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL PROVIDE 200% RATED NEUTRAL AND ISOLATED GROUND BUS. MAIN DEVICE: 150 A MAIN CB. BUS AMPS: 225 AMPS.

PANELBOARD: PAD-2. LOCATION: ELEC 1-614. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 150 A MAIN CB. BUS AMPS: 225 AMPS.

PANELBOARD: PAD-2B. LOCATION: ELEC 1-614. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 100 A MCB. BUS AMPS: 100 AMPS.

PANELBOARD: PAD-1. LOCATION: ELEC 1-614. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 150 A MAIN CB. BUS AMPS: 225 AMPS.

PANELBOARD: PAD-1B. LOCATION: ELEC 1-614. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 100 A MCB. BUS AMPS: 125 AMPS.

DISTRIBUTION PANEL: MDP-AD2. LOCATION: 1000 A MLO. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 60,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL PROVIDE 200% NEUTRAL AND ISOLATED GROUND BUS. MAIN DEVICE: 1200 AMPS.

PANELBOARD: EMLP-3. LOCATION: ELEC 1-342. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 100 A MCB. BUS AMPS: 100 AMPS.

PANELBOARD: EM-AD. LOCATION: ELEC 1-614. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 150 A MCB. BUS AMPS: 200 AMPS.

PANELBOARD: EM-AD2. LOCATION: SURFACE NEMA 1. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 150 A MCB. BUS AMPS: 100 AMPS.

PANELBOARD: PG-A. LOCATION: STORAGE 1-202. VOLTAGE: 480/277 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 14,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 60 A MAIN CB. BUS AMPS: 100 AMPS.

PANELBOARD: PCP-1. LOCATION: STORAGE 1-202. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 150 A MAIN CB. BUS AMPS: 225 AMPS.

PANELBOARD: EM-AD. LOCATION: ELEC 1-614. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 150 A MCB. BUS AMPS: 200 AMPS.

PANELBOARD: PAD-5B. LOCATION: SURFACE NEMA 1. VOLTAGE: 480/277 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 14,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 100 A MAIN CB. BUS AMPS: 100 AMPS.

PANELBOARD: LPY-3A1. LOCATION: JANITOR 3-125. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 40 A MAIN CB. BUS AMPS: 100 AMPS.

PANELBOARD: LPY-3A1. LOCATION: JANITOR 3-125. VOLTAGE: 120/208 Wye V, 3 ø 4 W. MOUNTING: SURFACE NEMA 1. A.I.C. RATING: 10,000 AMPS SYMMETRICAL. SPECIAL: NEW PANEL. MAIN DEVICE: 40 A MAIN CB. BUS AMPS: 100 AMPS.

36 ISSUED FOR ADDENDUM 2 - BGR 12.04.2019 ISSUED FOR BID GROUP B - PHASE C 11.20.2019 ISSUED FOR 90%CD - PHASE C 11.01.2019 ISSUED FOR 70%CD - PHASE C 10.14.2019 REV ISSUE DATE

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET DOWNERS GROVE, IL 60516

SCHEDULES

Project Number: 5274-42 Drawn by: Author Sheet

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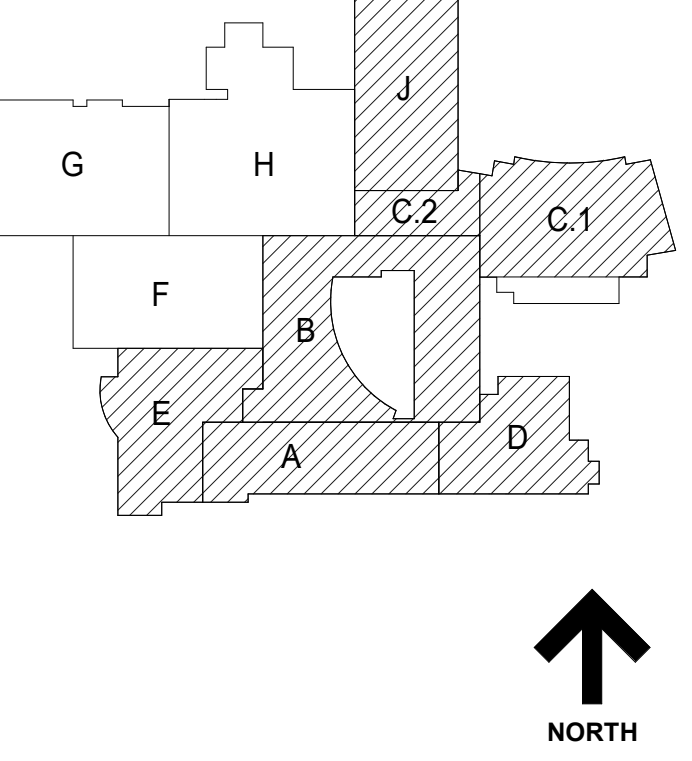
15/04/2019 3:50:13 AM C:\Users\shahmohammed\Documents\10-0274-42_DSS_MEP-FP_2019_Central_Shahmohammed\wightco.com\19 Wight & Co. Copyright 2018 All rights reserved. No part of these documents may be reproduced, stored, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written consent of Wight & Co.



COMMUNITY HIGH SCHOOL DISTRICT 99



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P 630.969.7000
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PANELBOARD: PCL-1
LOCATION: STORAGE 1-302
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 400 A MAIN CB
BUS AMPS: 400 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL: NEW PANEL

PANELBOARD: PCL-2
LOCATION: STORAGE 1-302
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 150 A MAIN CB
BUS AMPS: 150 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL: NEW PANEL

PANELBOARD: EMLP-1
LOCATION: ELECTRICAL ROOM 1-168
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 100 A MAIN CB
BUS AMPS: 100 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL: EXISTING PANEL

PANELBOARD: EMLP-2
LOCATION: ELEC 1-117
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 60 A MAIN CB
BUS AMPS: 100 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

PANELBOARD: LP-69
LOCATION: ELECTRICAL ROOM 1-168
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 200 A MAIN CB
BUS AMPS: 200 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

PANELBOARD: LPM2-1-A1
LOCATION: STORAGE 1-615
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 200 A MCB
BUS AMPS: 200 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL: EXISTING PANEL

PANELBOARD: LPY-2A1
LOCATION: JANITOR 2-123
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 100 A MCB
BUS AMPS: 100 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL: EXISTING PANEL

PANELBOARD: MDP-K2
LOCATION: MECH 2-903
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 400 A MAIN CB
BUS AMPS: 400 AMPS
VOLTAGE: 480/277 Wye V 3 ø 4 W
A.I.C. RATING: 14,000 AMPS SYMMETRICAL
SPECIAL: EXISTING PANEL

PANELBOARD: MDP-M2
LOCATION: MECH 2-500
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 500 A MAIN CB
BUS AMPS: 600 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL:

DISTRIBUTION PANEL: MDP-P
LOCATION: ELECTRICAL ROOM 1-168
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 500 A MLO
BUS AMPS: 600 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 65000.00
SPECIAL: EXISTING PANEL

PANELBOARD: MDP-X
LOCATION: JANITOR 2-123
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 300 A MAIN CB
BUS AMPS: 300 AMPS
VOLTAGE: 480/277 Wye V 3 ø 4 W
A.I.C. RATING: 14,000 AMPS SYMMETRICAL
SPECIAL:

PANELBOARD: PC-1B
LOCATION: ELECTRICAL ROOM 1-168
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 100 A MLO
BUS AMPS: 100 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL: EXISTING PANEL

PANELBOARD: PAR-7
LOCATION: ELEC ROOM 1-352
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 100 A MCB
BUS AMPS: 100 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL: NEW PANEL

PANELBOARD: SP-2B
LOCATION: ELEC 2-319
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 225 A MAIN CB
BUS AMPS: 225 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL: EXISTING PANEL

PANELBOARD: MDP-Z
LOCATION: OFFICE 3-100
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 225 A MAIN CB
BUS AMPS: 225 AMPS
VOLTAGE: 480/277 Wye V 3 ø 4 W
A.I.C. RATING: 22,000 AMPS SYMMETRICAL
SPECIAL:

PANELBOARD: MDP-2
LOCATION: ELEC ROOM 1-352
MOUNTING: SURFACE NEMA 1
MAIN DEVICE: 100 A MCB
BUS AMPS: 100 AMPS
VOLTAGE: 120/208 Wye V 3 ø 4 W
A.I.C. RATING: 10,000 AMPS SYMMETRICAL
SPECIAL: NEW PANEL

36 ISSUED FOR ADDENDUM 2 - B08 12/04/2019
REV ISSUED FOR BID GROUP 8 - PHASE C 11/20/2019
DATE

MFP IMPLEMENTATION - SOUTH

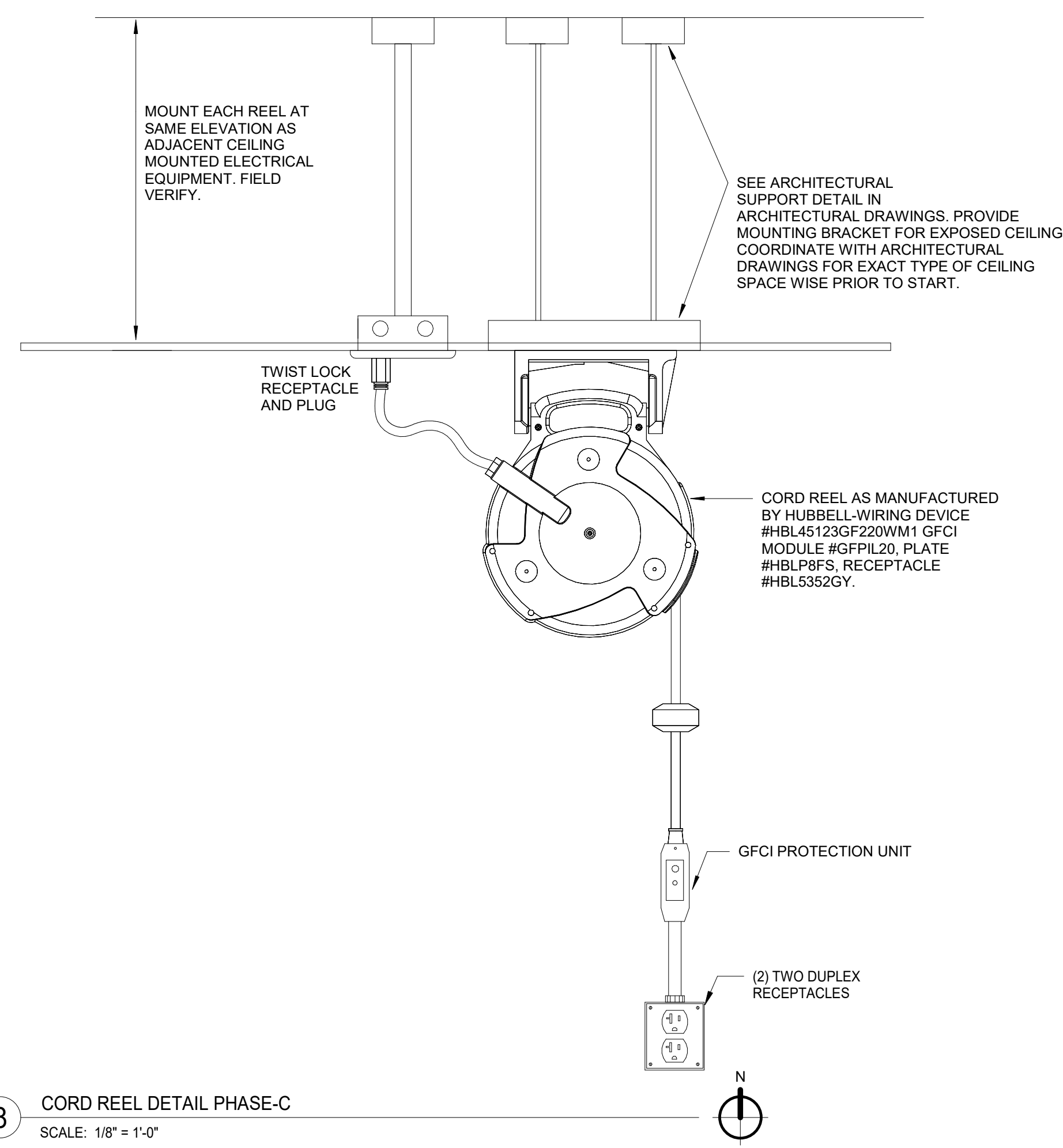
1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

SCHEDULES

Project Number: 5274-42
Drawn by: Author
Sheet:

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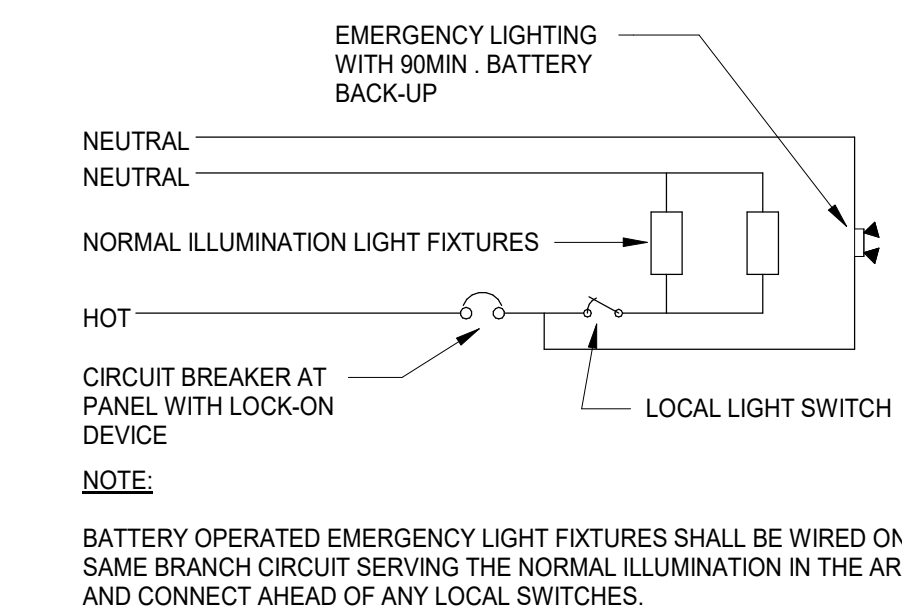


8 CORD REEL DETAIL PHASE-C
SCALE: 1/8" = 1'-0"

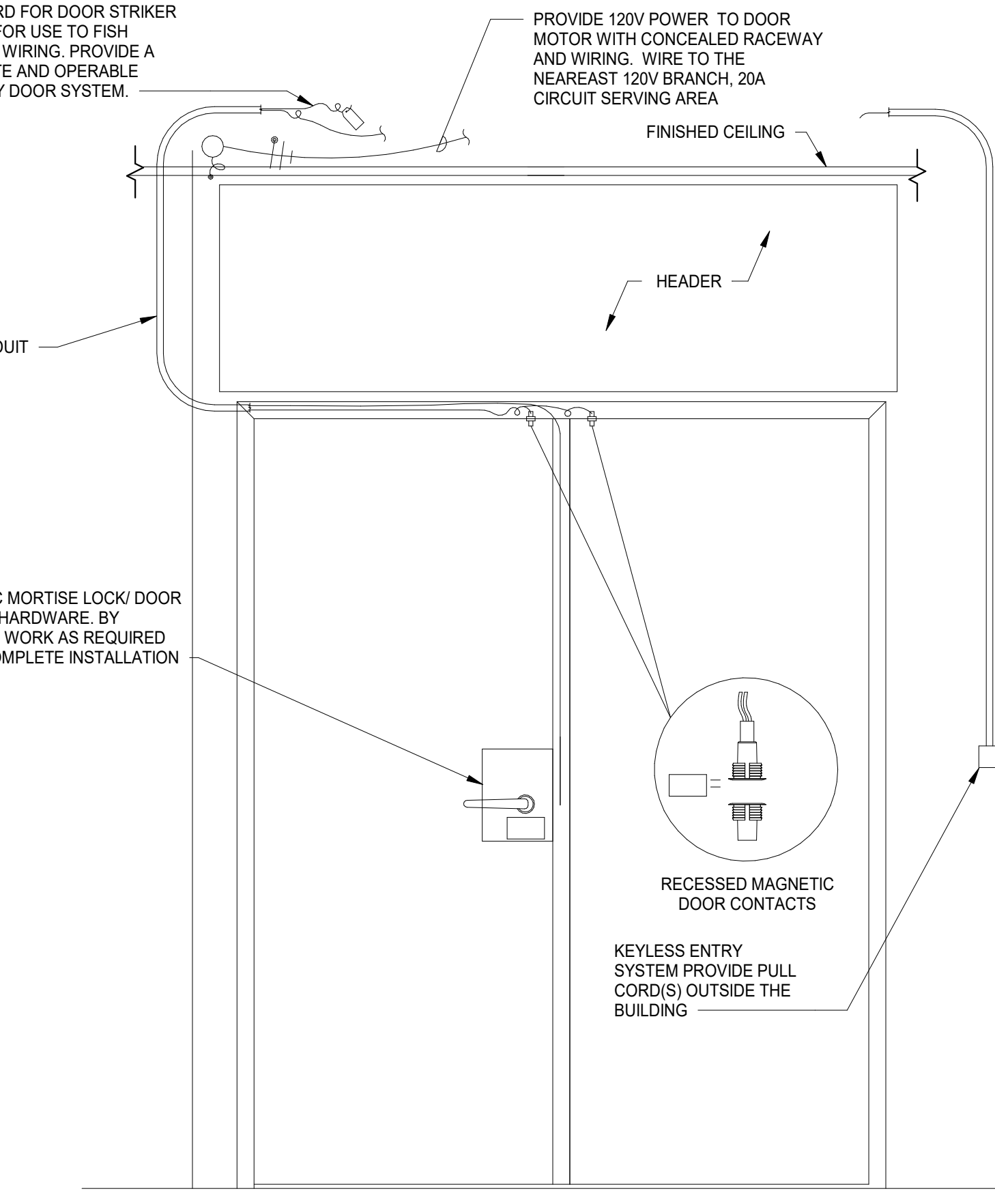
OCP AMPS	TABLE#1 3W + G			TABLE#2 4W + G		
	PHASE	GROUND	CONDUIT	PHASE	GROUND	CONDUIT
15	3 #12	1 #12	3/4"	4 #12	1 #12	3/4"
20	3 #12	1 #12	3/4"	4 #12	1 #12	3/4"
25	3 #10	1 #10	3/4"	4 #10	1 #10	3/4"
30	3 #10	1 #10	3/4"	4 #10	1 #10	3/4"
35	3 #8	1 #10	3/4"	4 #8	1 #10	3/4"
40	3 #8	1 #10	3/4"	4 #8	1 #10	3/4"
45	3 #8	1 #10	3/4"	4 #8	1 #10	1"
50	3 #8	1 #10	3/4"	4 #8	1 #10	1"
60	3 #4	1 #10	1"	4 #4	1 #10	1-1/4"
70	3 #4	1 #8	1"	4 #4	1 #8	1-1/2"
80	3 #3	1 #8	1-1/4"	4 #3	1 #8	1-1/2"
90	3 #2	1 #8	1-1/4"	4 #2	1 #8	1-1/2"
100	3 #3	1 #8	1-1/4"	4 #3	1 #8	1-1/2"
110	3 #2	1 #8	1-1/2"	4 #2	1 #8	1-1/2"
125	3 #1	1 #8	1-1/2"	4 #1	1 #8	1-1/2"
150	3 #10	1 #6	2"	4 #10	1 #6	2"
175	3 #20	1 #6	2"	4 #20	1 #6	2"
200	3 #30	1 #6	2"	4 #30	1 #6	2-1/2"
225	3 #40	1 #4	2-1/2"	4 #40	1 #4	2-1/2"
250	3 #250 KCML	1 #4	2-1/2"	4 #250 KCML	1 #4	2-1/2"
300	3 #350 KCML	1 #4	3"	4 #350 KCML	1 #4	3-1/2"
400	3 #600 KCML	1 #3	3"	4 #600 KCML	1 #3	3-1/2"
450	(2) 3 #40	1 #2	3" (EA)	(2) 4 #40	1 #2	3" (EA)
500	(2) 3 #250 KCML	1 #2	3" (EA)	(2) 4 #250 KCML	1 #2	3" (EA)
600	(2) 3 #350 KCML	1 #1	4" (EA)	(2) 4 #300 KCML	1 #1	4" (EA)
800	(2) 3 #600 KCML	1 #1/0	4" (EA)	(2) 4 #600 KCML	1 #1/0	4" (EA)
1000	(3) 3 #600 KCML	1 #2/0	4" (EA)	(3) 4 #600 KCML	1 #2/0	4" (EA)

THE TABLE IS BASED ON NEC-2017, TABLE 310.15(B)(16) FOR CABLE SIZES AND 250.122 FOR GROUNDING SIZE. 75 DEG CEEPER. GROUNDING SIZES ARE ONLY FOR EQUIPMENT AND NOT FOR SERVICE.

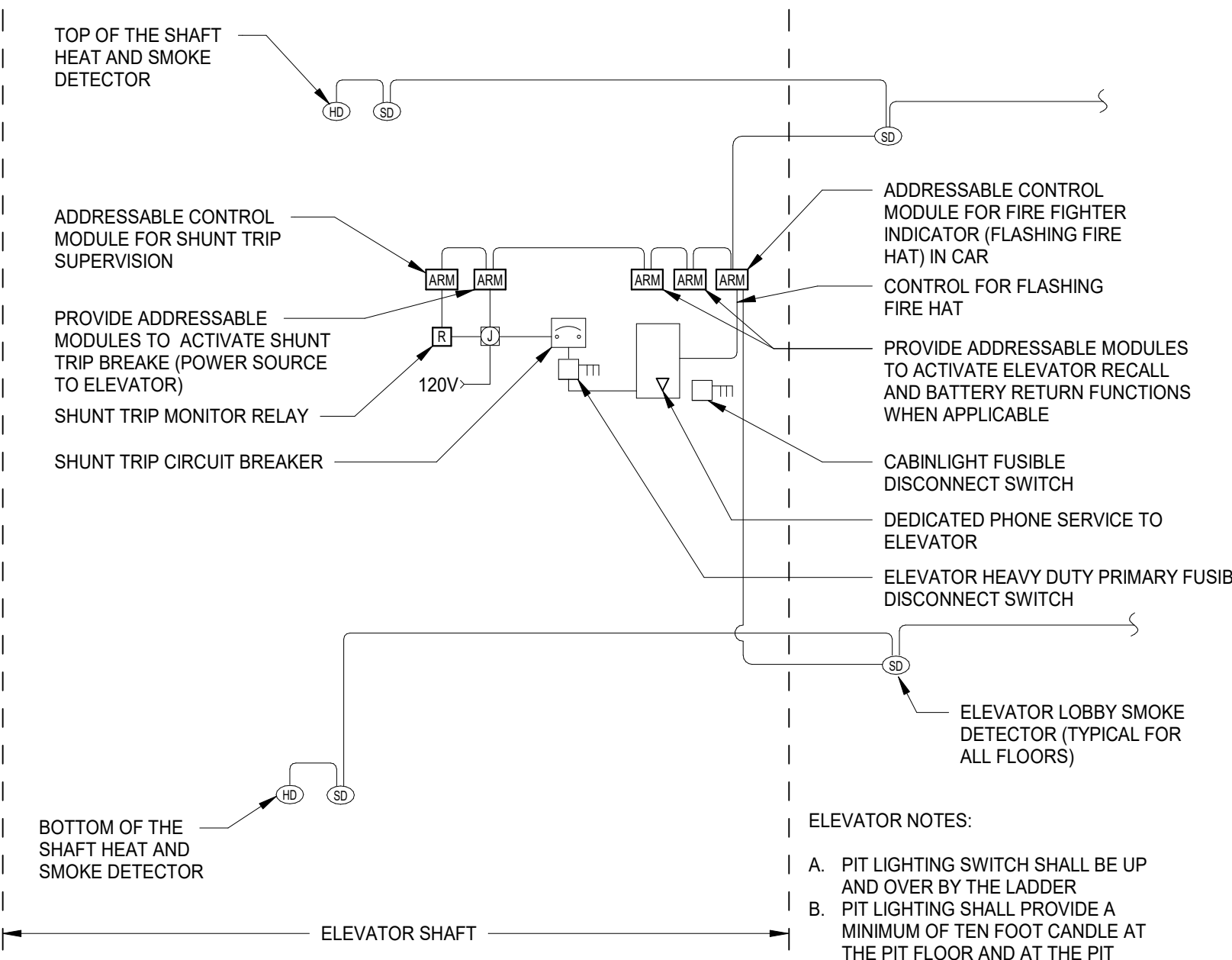
4 NEC WIRING SCHEDULE PHASE-C
N.T.S.



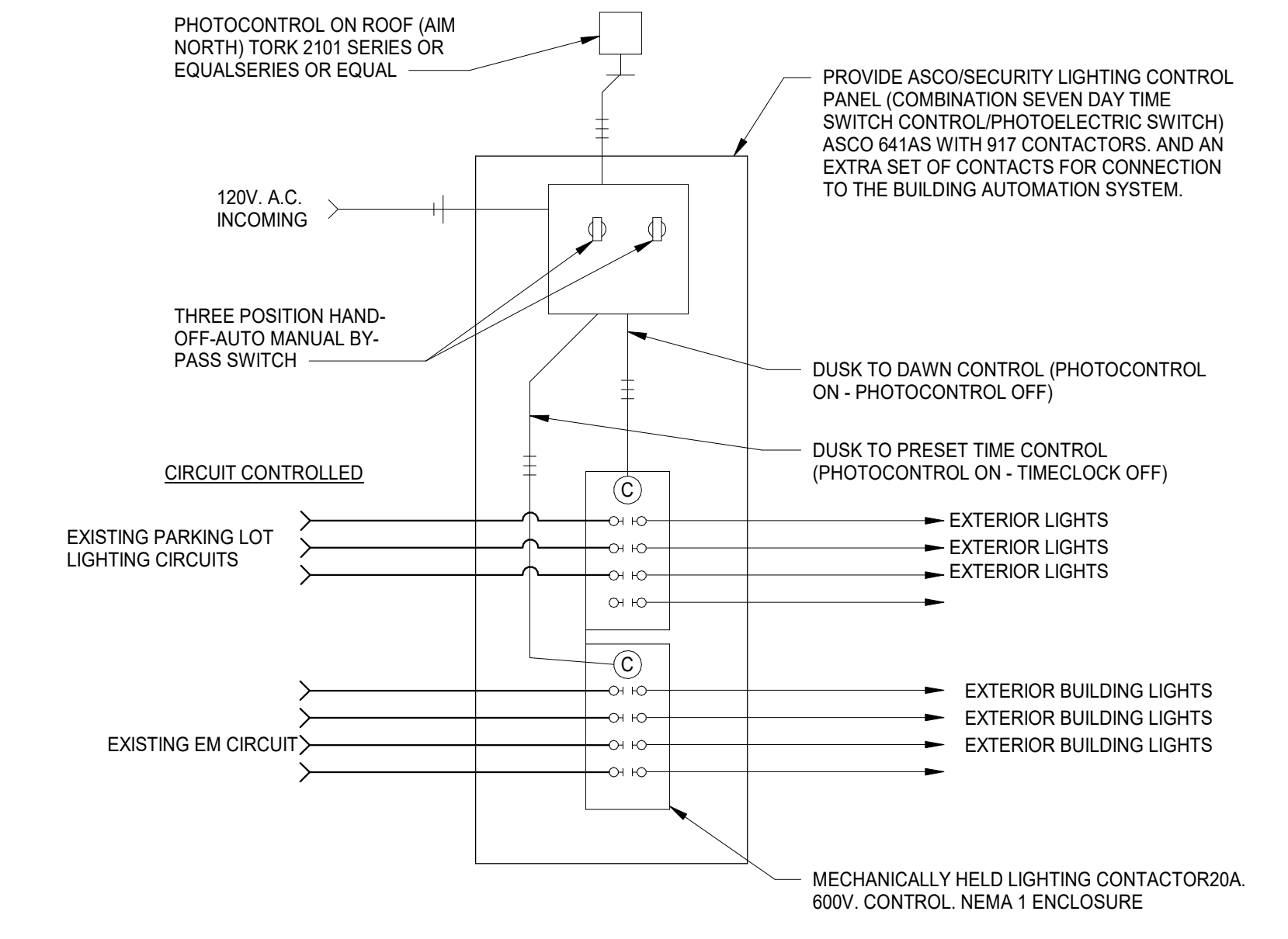
5 EMERGENCY LIGHTING WIRING DETAIL
N.T.S.



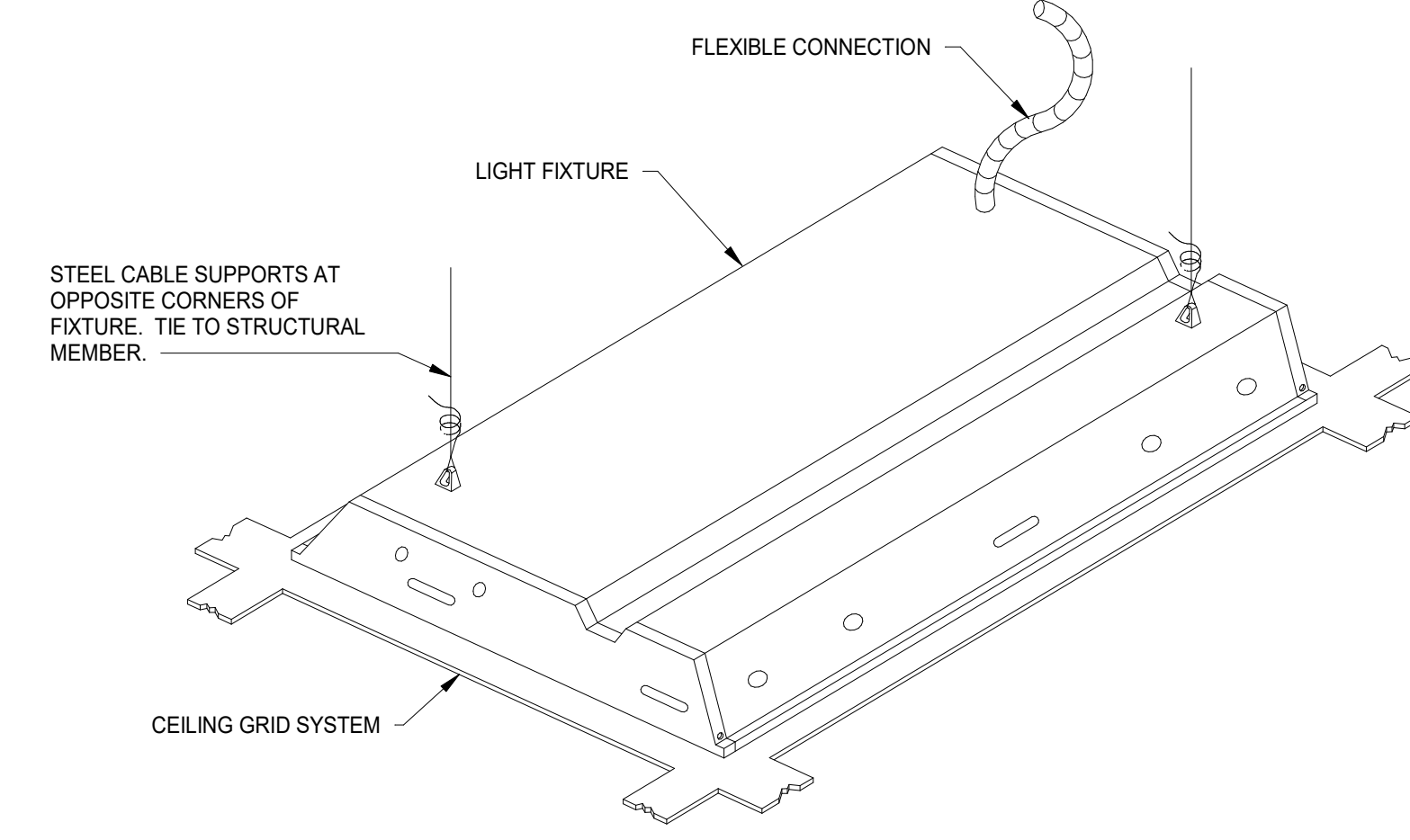
2 TYPICAL MAGNETIC DOOR CONTACT DETAIL
N.T.S.



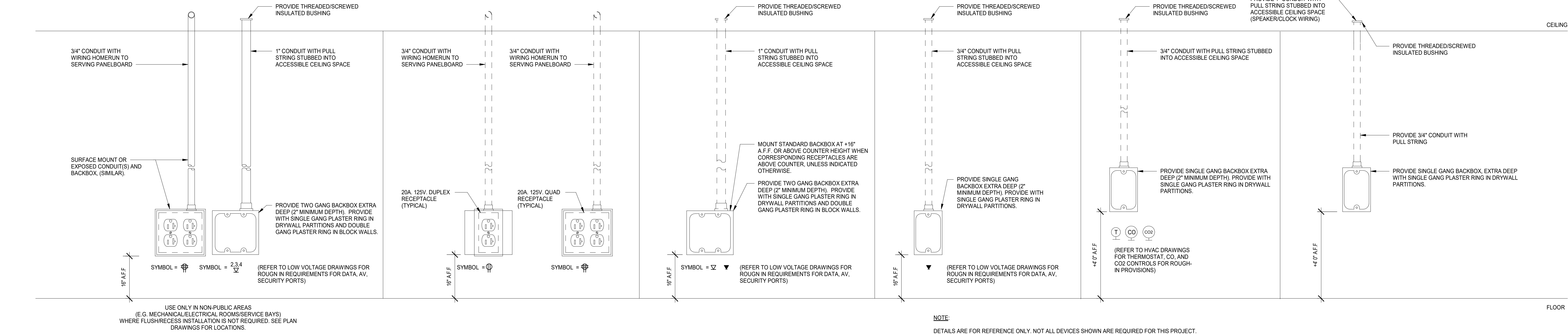
7 ELEVATOR SHAFT AND PIT
N.T.S.



6 EXTERIOR LIGHTING CONTROL DETAIL
N.T.S.



3 LIGHT FIXTURE SUPPORT DETAIL
N.T.S.



1 JUNCTION BOX ROUGH-IN DETAIL
N.T.S.

DISTRICT 99

COMMUNITY HIGH SCHOOL
DISTRICT 99

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NOT FOR CONSTRUCTION

36	ISSUED FOR ADDENDUM 2 - BGR	12.04.2019
	ISSUED FOR BID GROUP 8 - PHASE C	11.20.2019
	ISSUED FOR 80%CD - PHASE C	11.01.2019
	ISSUED FOR 75%CD - PHASE C	10.14.2019
	ISSUED FOR 50%CD - PHASE C	10.02.2019
	ISSUED FOR 25%CD - PHASE C	08.30.2019
	ISSUED FOR 100% I/DD	07.12.2019
	ISSUE	

MFP IMPLEMENTATION - SOUTH

1436 NORFOLK STREET
DOWNERS GROVE, IL 60516

DETAILS

Project Number:
5274-42
Drawn By:
Author:
Sheet:

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