

**DOCUMENT 00 91 02  
ADDENDUM NO. 2**

PROJECT: 2024 Anthony, Hopper and Kahla MS Renovations

BID DATE: **Tuesday, January 21, 2025 (no Change)**

FROM: Carolina Weitzman, A.I.A.  
Natex Corporation Architects  
447 Heights Blvd, Houston, TX 77007

TO: **Prospective Bidders**

This Addendum forms a part of the Bidding Documents and will be incorporated into Contract Documents. Insofar as the Project Manual or Drawings or both are inconsistent, this Addendum governs. Acknowledge receipt of the Addendum by inserting its number into the Proposal Form. **FAILURE TO DO SO WILL SUBJECT BID TO DISQUALIFICATION.**

**PART 1 CHANGES TO PROJECT MANUAL**

1. SECTION 00 01 05 Table of Content
  - a. Replace section in its entirety.
2. DIVISION 00 A101-2017 Standard Form of Agreement Between Owner & Contractor
  - a. Replace document in its entirety.
3. SECTION 01 21 00 Allowances
  - a. Add section to project manual.
4. SECTION 02 30 00 USER-SUBSURFACE INVESTIGATION
  - a. Add section to project manual
5. SECTION 03 54 16 HYDRAULIC CEMENT UNDERLAYMENT
  - a. Add section to project manual.
6. SECTION 11 61 33 Rigging System and Controls
  - a. 2.6, A, 1 – Changed from 4' x 4' pipe spacing to 5' x 5' pipe spacing.
  - b. 2.10, A, 1 - Changed from 4' x 4' pipe spacing to 5' x 5' pipe spacing.
7. SECTION 22 13 16 Soil, Waste and Sanitary Drain Piping
  - a. Add this section in its entirety
8. SECTION 26 32 16 Dual Purpose Manual Transfer Switches with integrated Load Bank and Generator Quick Connectors
  - a. Delete the load bank circuit breaker and quick connects and accessories and control wiring related to the load bank circuit breaker shut trip. The manual transfer switch will consist of the transfer switch and generator quick connects only.
  - b. Delete the requirement for power meter
9. SECTION 28 10 00.05 DOOR INTERCOM SYSTEM
  - a. Replace section in its entirety.
  - b. Updated spec section name to "Door Intercom System"
  - c. Part 2, Add the following
    - 2.4 Network Strobe Siren

A. Axis D4100-E Network Siren Strobe

1. Connect to associated 2N door station as indicated on drawings. Provide and install (1) 18/4C wire from door station to strobe siren.
2. Strobe shall light (green) and sound when door station is activated. Coordinate sound type and level with owner.

**PART 2 CHANGES TO DRAWINGS**

**ANTHONY MS**

1. S1.01A – FOUNDATION PLAN - AREA F
  - a. Add Detail reference 14/S5.02
  - b. Refer to revised sheet
2. S2.01A – ROOF FRAMING PLAN – AREA F
  - a. Add Detail 14/S5.02
  - b. Refer to revised sheet
3. A1.10 – ENLARGED SITE PLANS & STORAGE BLDG
  - a. Details 4, 5, 6, and 7 Storage Building Elevations - Height of textured split faced CMU should be 2'-8".
4. A2.04 – ROOF PLAN & ENLG ROOF PLAN
  - a. Detail 1 Overall Roof Plan – Show Roof @ new Stor. Addition.
  - b. Detail 2 Enlg. Roof Plan – Show Roof @ new Stor. Addition.
  - c. Refer to revised sheet
5. A2.31 – SIPLAST MEMBRANE FLASH DETAILS + LWIC
  - a. Detail 5 Equip. Support @ Membrane Flash + LWIC - Add note "fill inside pipe support with insulation"
6. A2.32 – TYPICAL ROOF ACCESSORIES & DETAILS
  - a. Detail 6 Typ. Axon of Thru-Wall Roof Support - Revise wall bracket to a DiversiTech Stainless Steel Wall Bracket with Rail, hurricane rated.
7. A6.01 – BUILDING ELEVATIONS
  - a. Details 1, 3, 4, 5, + 6 – Add roof to elevations.
  - b. Refer to revised sheet.
8. A7.01 – BUILDING SECTIONS
  - a. Detail 3 and 4 – Show roof in section.
  - b. Refer to revised sheet
9. A8.02 – WALL SECTION DETAILS
  - a. Details 4, 7, 8, 10, 11, 12 – Revise details.
  - b. Refer to revised sheet.
10. E2.02 ELECTRICAL LIGHTING 1ST FLOOR - AREA 'F'
  - b. Refer to revised sheet for new egress fixture.
11. E6.01 ELECTRICAL SCHEDULES AND DETAILS

- a. Refer to sheet for addition of fixture 'W4'.
- 12. T0.00 - TECHNOLOGY NOTES AND LEGENDS
  - a. Add Network Siren Strobe to Access Control Legend.
- 13. T1.01 - TECHNOLOGY COMPOSITE 1ST FLOOR PLAN
  - a. Remove sleeves from plan.
- 14. T1.02 - TECHNOLOGY COMPOSITE 2ND FLOOR PLAN
  - a. Remove sleeves from plan.
- 15. T1.03 - TECHNOLOGY COMPOSITE 3RD FLOOR PLAN
  - a. Remove sleeves from plan.
- 16. T2.05 - TECHNOLOGY 1ST FLOOR PLAN - AREA E
  - a. Add 'SS' to kitchen 1404.
  - b. Add note coordinating power for ACP.
- 17. T2.06 - TECHNOLOGY 1ST FLOOR PLAN - AREA F
  - a. Add Camera types and heights.
  - b. Add intercom speaker height.
- 18. T2.08 - TECHNOLOGY 1ST FLOOR PLAN - AREA H
  - a. Add 'SS' to Production Shop 1708.
  - b. Add note coordinating power for ACP.

#### HOPPER MS

- 1. D2.10D – DEMOLITION PLAN AREA “D”
  - a. Orchestra 1407 – Revise Keynote tag DE-10 shown in floor plan to match Orchestra Demo Pictures. Revise to DE-11 “Carefully remove sound system including mounting brackets. Re-install in new orchestra room in similar layout above marker boards. Contractor to ensure speakers are functioning before and after renovation. Re: Elec.”
  - b. Kiln 1400C – Add Keynote DM-18 “Contractor shall not move kiln. GC to coordinate with owner’s approved vendor for relocation of kiln. Ceramic Store of Houston. 1002 W. 11<sup>th</sup> St., Houston, TX 77008. 713-854-6442”
- 2. D2.10G – DEMOLITION PLAN AREA “G”
  - a. Girls Locker 1501 – Add note “Per as-builts, 2 ½” recessed slab below shower, sink and restroom area. Remove tile and substrate down to slab as required.
- 3. D2.10H – DEMOLITION PLAN AREA “H”
  - a. Boys Locker 1511 – Add note “Per as-builts, 2 ½” recessed slab below shower, sink and restroom area. Remove tile and substrate down to slab as required.
- 4. A2.10D – FLOOR PLAN AREA “D”
  - a. Detail 5 Wall Section – New Louver - Revise dimensions as follow:  
Bottom of louver to Finish Floor - +/-10'-0" VIF  
Louver Height - +/- 1'-4" R. O.
- 5. A2.10G – FLOOR PLAN AREA “G”
  - a. Girls Athletics 1501C - Revise ADA bench location
  - b. Girls Locker Room – Shaded area indicate existing recessed slab.
  - c. Refer to revised sheet.

6. A2.10H – FLOOR PLAN AREA “H”
  - a. Locker Room – Shaded area indicates existing recessed slab.
  - b. Refer to revised sheet.
  
7. A2.32 – SIPLAST ROOF MEMBRANE & LWIC DETAILS
  - a. Detail 8 Equipment Support @Membrane Flash + LWIC – Add note “ Infill inside pipe support with insulation.
  
8. A2.33 – TYPICAL ROOF ACCESSORY DETAILS
  - a. Detail 6 Roof Detail @ Mini-Split Support - Revise wall bracket type to a DiversiTach SS wall bracket with rail or equal. Wall bracket changes from powder coat galv. Steel to stainless steel, hurricane rated type.
  
9. A3.13 – GIRLS LOCKER ROOM PLANS & ELEVATIONS
  - a. Detail 20 1501 Girls Athletics E – Update elevation to match floor plan revision. Relocate ADA bench
  - b. Detail 21 1501 Girls Athletics S – Update elevation to match floor plan. Relocate ADA bench.
  
10. A4.10 – OPENING TYPES & DETAILS
  - a. Details 11, 12 and 14 – Revise louver details.
  - b. Refer to revised sheet.
  
11. A4.20 – PARTITION TYPES AND WALL DETAILS
  - a. Partition general notes 8 & 9: Change all abbreviations, “PTN” to “Partition”
  
12. A7.01 – BUILDING SECTIONS – FINE ARTS
  - a. Detail 2 – Remove Detail mark 12/4.10 shown next to canopy.
  
13. A9.01 – KILN ROOM – HM DOOR HEAD
  - a. Detail 8 & 9 – Revise details.
  - b. Refer to revised sheet.
  
14. A10.01 – FINE ARTS ELEVATIONS
  - a. Add Material Keynote Legend. Keynote AE-00 should schedule as “Interactive monitor (N.I.C) – install power & data behind monitor. Re: mech/tech”.
  - b. Keynote AE-02 should schedule as “Carefully remove and relocate existing sound system and brackets to new location. Contractor to ensure speakers are functioning before and after renovation. Re: Elec.
  
15. A11.10D - CEILING PLAN AREA “D”
  - a. Add Material Keynote Legend. Keynote 107313-A0 should schedule as “Prefinished aluminum walkway cover”.
  
16. A11.10E - CEILING PLAN AREA “E”
  - a. Add Material Keynote Legend. Keynote AC-13 should schedule as “Patch, repair and finish existing gypsum board furr-down where existing projection screen is removed”.
  
17. E2.03 ELECTRICAL LIGHTING 1ST FLOOR - AREA 'C'
  - a. Refer to revised sheet for new egress fixture.



18. E2.04 ELECTRICAL LIGHTING 1ST FLOOR - AREA 'D'
  - a. Refer to revised sheet for new egress fixture.
19. E2.08 ELECTRICAL LIGHTING 1ST FLOOR - AREA 'G'
  - a. Refer to revised sheet for new egress fixture.
20. E4.02 ELECTRICAL ONE LINE DIAGRAM
  - a. Delete the load bank circuit breaker and quick connects, accessories and control wiring related to the load bank circuit breaker shut trip. Refer to revised sheet.
20. T0.00 - TECHNOLOGY NOTES AND LEGENDS
  - a. Add Network Siren Strobe to Access Control Legend.
21. T0.03 - TECHNOLOGY DEMOLITION FIRST FLOOR PLAN - AREA C
  - a. Card reader now to be demolished.
22. T0.07 - TECHNOLOGY DEMOLITION FIRST FLOOR PLAN - AREA G
  - a. Add Demo subscript 'D' to AV rack in Elec-2, 1505A-2.
23. T0.08 - TECHNOLOGY DEMOLITION FIRST FLOOR PLAN - AREA H
  - a. Update location of AV rack to be demolished.
  - b. Update card reader to be demolished.
24. T1.02 - TECHNOLOGY SITE PLAN – NEW
  - a. Add Camera and Intercom speaker height.
25. T1.03 - TECHNOLOGY COMPOSITE FIRST FLOOR PLAN
  - a. Remove sleeves from the plan.
26. T1.04 - TECHNOLOGY COMPOSITE SECOND FLOOR PLAN
  - a. Remove sleeves from the plan.
27. T2.03 - TECHNOLOGY FIRST FLOOR PLAN - AREA C
  - a. Add door contacts to new doors, ST1-2 and ST3-2
  - b. Show new card reader on Door ST3-2
28. T2.05 - TECHNOLOGY 1ST FLOOR PLAN - AREA E
  - a. Add data installation instruction to FSD-1's in Commons 1250.
  - b. Add data and key notes for AV consultant's AV rack.
  - c. Add Technology keyed notes.
  - d. Revise above ceiling data locations for freezer/cooler monitoring and apply keynote 4.
  - e. Add Network siren strobe 'SS' to kitchen 1411.
  - f. Add door contact to door 1411.
29. T2.07 - TECHNOLOGY 1ST FLOOR PLAN - AREA G
  - a. Add technology keyed notes.
  - b. Add technology keyed notes to new local sound rack in Elec-1 1505A-1.
  - c. Add door contacts to new doors on gym exterior in locations shown.
30. T2.08 - TECHNOLOGY 1ST FLOOR PLAN - AREA H
  - a. Add technology keyed notes.
  - b. Remove existing local sound rack from new floor plans.

- c. Add technology keyed notes to new local sound rack in MECH-1 1510-1.
  - d. Add door contacts and new card reader to Door 1520-1.
  - e. Add network siren strobe 'SS' to Production Shop-1 1412-1.
31. TE11.12 TE – 1<sup>st</sup> FLOOR CEILING PLAN DRAMA 1223
- a. Revised pipe spacing from 4' x 4' to 5' x 5'
32. TL11.12 TE – 1<sup>st</sup> FLOOR CEILING PLAN DRAMA 1223
- a. Moved existing pipe mount boxes HD.LPB.01 thru 04 based on pipe spacing change to 5' x 5'.

**KAHLA MS**

1. D2.10D – DEMOLITION PLAN AREA “D”
- a. Detail 1 Corridor 1009 - Add and note demo required for new louver on north wall.
  - b. Add Detail 6 Demo ENLG Elevation
  - c. Kiln 1402C – Add Keynote DM-18
  - d. Orchestra 1407 – Revise Keynote tag DM-15 shown in floor plan to match Orchestra Demo Pictures. Revise tag to DE-11
  - e. Refer to revised sheet
2. D2.10E – DEMOLITION PLAN AREA “E”
- a. Revise Keynote list title - “Demolition Keynotes”
3. D2.10F – DEMOLITION PLAN AREA “F”
- a. Revise Keynote list title - “Demolition Keynotes”
4. D2.10G – DEMOLITION PLAN AREA “G”
- a. Demolition Keynotes Revise Keynote list title - “Demolition Keynotes”
  - b. Detail 1 – Girls Locker 1503 – Add note “Per as-builts, 2 ½” recessed slab below shower, sink and restroom area. Remove tile and substrate down to slab as required.
5. D2.10H – DEMOLITION PLAN AREA “H”
- a. Demolition Keynotes Revise Keynote list title - “Demolition Keynotes”
  - b. Detail 1 – Boys Locker 1517 – Add note “Per as-builts, 2 ½” recessed slab below shower, sink and restroom area. Remove tile and substrate down to slab as required.
6. D2.20A – 2<sup>ND</sup> FLOOR DEMOLITION PLAN AREA “A”
- a. Revise Keynote list title - “Demolition Keynotes”
7. D2.20B – 2<sup>ND</sup> FLOOR DEMOLITION PLAN AREA “B”
- a. Revise Keynote list title - “Demolition Keynotes”
8. D2.20C – 2<sup>ND</sup> FLOOR DEMOLITION PLAN AREA “C”
- a. Revise Keynote list title - “Demolition Keynotes”
9. A2.10B – FLOOR PLAN AREA “B”
- a. Science 1112 and Science 1116 – Revise science tables required to 14 per classroom.
10. A2.10C – FLOOR PLAN AREA “C”
- a. Science 1312 and Science 1314 – Revise science tables required to 14 per

classroom.

11. A2.10D – FLOOR PLAN AREA “D”
  - a. Detail 1 Corridor 1009 – Add louver on north wall.
  - b. Add Detail 5 Enlg Elevation – New Louver
  - c. Add Detail 6 Wall Section – New Louver
  - d. Refer to revised sheet
12. A2.10G – FLOOR PLAN AREA “G”
  - a. Girls Athletics 1503 - Revise ADA bench location
  - b. Girls Locker Room – Shaded area indicate existing recessed slab.
  - c. Refer to revised sheet.
13. A2.10H – FLOOR PLAN AREA “H”
  - a. Boys Locker Room – Shaded area indicate existing recessed slab.
  - b. Refer to revised sheet.
14. A2.20B – 2<sup>ND</sup> FLOOR PLAN AREA “B”
  - a. Science 2306, 2314 and 2316 – Revise science tables required to 14 per classroom.
15. A2.20C – 2<sup>ND</sup> FLOOR PLAN AREA “C”
  - a. Science 2104, 2112 and 2116 – Revise science tables required to 14 per classroom.
16. A2.32 – SIPLAST LWIC + MEMBRANE NEW ROOF DETAILS
  - a. Detail 8 Equipment Support @Membrane Flash + LWIC – Add note “ Infill inside pipe support with insulation.
17. A2.33 – TYPICAL ROOF ACCESSORY DETAILS
  - a. Detail 6 Roof Detail @ Mini-Split Support - Revise wall bracket type to a DiversiTach SS wall bracket with rail or equal. Wall bracket changes from powder coat galv. Steel to stainless steel, hurricane rated type.
18. A3.13 – GIRLS LOCKER ROOM PLANS & ELEVATIONS
  - a. Detail 21 1503 Girls Athletics S – Update elevation to match floor plan revision. Relocate ADA bench
  - b. Detail 22 1503 Girls Athletics E – Update elevation to match floor plan. Relocate ADA bench.
19. A4.01 – DOOR SCHEDULE
  - a. Door 1419B-1 – Revise Frame type to A1 and Frame Finish to Re: Spec.
20. A4.10 – INTERIOR OPENING TYPES & DETAILS
  - a. Detail 8, 9, 10 – Add louver head, sill, jamb details.
  - b. Refer to revised sheet
21. A4.20 – PARTITION TYPES & WALL DETAILS
  - a. Partition general notes 8 & 9: Change all abbreviations, “PTN” to “Partition”
22. A5.00 – EXTERIOR OPENING TYPES
  - b. Details 2 & 3 – Revise
  - c. Refer to revised sheet

23. A8.01 – WALL SECTIONS
  - a. Detail 2 – Add note to refer to 2A1.10 for canopy post layout. Refer to Wall Section 1A8.01 for similar notes.
  - b. Detail 3 – Add note to refer to 2A1.10 for canopy post detail. Gray hatch represents existing construction to remain.
  
24. A9.01 PLAN DETAILS
  - a. Add Detail 9
  - b. Refer to Revised sheet
  
25. A11.10D – CEILING PLAN AREA “D”
  - a. Add Material Keynote Legend. Keynote 107313-A0 should schedule as “Prefinished aluminum walkway cover”.
  
26. A11.10E – CEILING PLAN AREA “E”
  - a. Add Material Keynote Legend. Keynote AC-13 should schedule as “Patch, repair and finish existing gypsum board furr-down where existing projection screen is removed”.
  
27. M0.01 – MECHANICAL DEMOLITION FIRST FLOOR PLAN – AREA A
  - a. Added air device replacement scope in restrooms.
  
28. M0.02 - MECHANICAL DEMOLITION FIRST FLOOR PLAN – AREA B
  - a. Added air device replacement scope in restrooms.
  
29. M0.03 - MECHANICAL DEMOLITION FIRST FLOOR PLAN – AREA C
  - a. Added air device replacement scope in restrooms.
  
30. M0.04 - MECHANICAL DEMOLITION FIRST FLOOR PLAN – AREA D
  - a. Added air device replacement scope in restrooms.
  
31. M0.08 - MECHANICAL DEMOLITION FIRST FLOOR PLAN – AREA H
  - a. Added demolished duct from DC-1.
  
32. M0.10 - MECHANICAL DEMOLITION SECOND FLOOR PLAN – AREA B
  - a. Added air device replacement scope in restrooms.
  
33. M0.11 - MECHANICAL DEMOLITION SECOND FLOOR PLAN – AREA C
  - a. Added air device replacement scope in restrooms.
  
34. M2.01 - MECHANICAL FIRST FLOOR PLAN – AREA A
  - a. Added air device replacement scope in restrooms.
  
35. M2.02 - MECHANICAL FIRST FLOOR PLAN – AREA B
  - a. Added air device replacement scope in restrooms.
  
36. M2.03 - MECHANICAL FIRST FLOOR PLAN – AREA C
  - a. Added air device replacement scope in restrooms.
  
37. M2.04 - MECHANICAL FIRST FLOOR PLAN – AREA D
  - a. Added air device replacement scope in restrooms.
  
38. M2.08 - MECHANICAL FIRST FLOOR PLAN – AREA H
  - a. Added new duct connection to DC-1.

39. M2.10 - MECHANICAL SECOND FLOOR PLAN – AREA B
  - a. Added air device replacement scope in restrooms.
40. M2.11 - MECHANICAL SECOND FLOOR PLAN – AREA C
  - a. Added air device replacement scope in restrooms.
41. M5.01 - MECHANICAL SCHEDULES
  - a. Updated DC-1 schedule.
42. SHEET E2.03 ELECTRICAL LIGHTING 1ST FLOOR - AREA 'C'
  - a. Refer to revised sheet for new egress fixture.
43. SHEET E2.04 ELECTRICAL LIGHTING 1ST FLOOR - AREA 'D'
  - a. Refer to revised sheet for new egress fixture.
  - b. Refer to expanded plan for new storage room.
44. SHEET E2.06 ELECTRICAL LIGHTING 1ST FLOOR - AREA 'F'
  - a. Refer to revised sheet for new egress fixture.
45. SHEET E2.08 ELECTRICAL LIGHTING 1ST FLOOR - AREA 'G'
  - a. Refer to revised sheet for new egress fixture.
46. SHEET E3.04 ELECTRICAL POWER 1ST FLOOR - AREA 'D'
  - a. Refer to revised sheet for corrected plan showing additional storage room.
47. SHEET E4.02 ELECTRICAL ONE LINE DIAGRAM
  - a. Delete the load bank circuit breaker and quick connects, accessories and control wiring related to the load bank circuit breaker shut trip.
48. SHEET E6.01 ELECTRICAL SCHEDULES AND DETAILS
  - a. Refer to revised sheet for addition of fixture 'W4'.
56. T0.00 - TECHNOLOGY NOTES AND LEGENDS
  - a. Add Network Siren Strobe to Access Control Legend.
57. T0.07 - TECHNOLOGY DEMOLITION FIRST FLOOR PLAN - AREA G
  - a. Add existing cameras in corridor 1011.
58. T0.09 - TECHNOLOGY DEMOLITION SECOND FLOOR PLAN - AREA A
  - a. Add and revise the quantity of data outlets and location of it in some spaces.
  - b. Add Demo speakers in corridors.
  - c. Add Demo FSD-1 in the wall of classroom 2329 and 2129.
  - d. Add existing motion sensors in corridor 2000.
  - e. Add existing cameras in corridor 2000.
  - f. Add existing access points in Resource Center 2200.
  - g. Add existing AV-1 in classroom 2128.
59. T0.10 - TECHNOLOGY DEMOLITION SECOND FLOOR PLAN - AREA 'B'
  - a. Add Demo data drops in classroom 2319, 2324 and 2305.
  - b. Add existing cameras in rooms 1411DD, room 1411EE and corridor 2000E.
  - c. Revise the location of wall mount devices in classroom 2309.
60. T0.11 - TECHNOLOGY DEMOLITION SECOND FLOOR PLAN - AREA C
  - a. Add existing cameras in room 1411FF and corridor 2000A.

- b. Add Demo data drops in WORKRM 2119, classroom 2126 and 2121, PREP 2122 and science 2116.
61. T1.00 - TECHNOLOGY COMPOSITE FIRST FLOOR PLAN
- a. Remove sleeves from plan.
  - b. Add camera outside of storage 1411C.
62. T1.01 - TECHNOLOGY COMPOSITE SECOND FLOOR PLAN
- a. Remove sleeves from plan.
63. T1.04 - TECHNOLOGY SITE PLAN – NEW
- a. Add Camera types and heights.
64. T2.01 - TECHNOLOGY FIRST FLOOR PLAN - AREA A
- a. Remove card reader from 1000B-1 door in reception 1000B.
  - b. Add existing card reader for 1000-1 door in lobby 1000.
65. T2.04 - TECHNOLOGY FIRST FLOOR PLAN - AREA D
- a. Add door contact for 1410B-2 door in music rehearsal-1.
  - b. Add existing camera in outside of the cooking lab 1403.
  - c. Remove Demo camera from new plan.
  - d. Change scope box to see missing part of technology design the Addition.
66. T2.05 - TECHNOLOGY 1ST FLOOR PLAN - AREA E
- a. Add door contacts for 1418-1 door.
  - b. Add 'SS' to kitchen 1418.
  - c. Revise above ceiling data locations for freezer/cooler monitoring and apply keynote 4.
  - d. Add installation guidance for FSD-1 in commons 1250.
  - e. Add technology plan keyed notes.
  - f. Add tag for network drop in storage 1257 which refers to key notes.
67. T2.06 - TECHNOLOGY 1ST FLOOR PLAN - AREA F
- a. Add door contact for 1418-1 door in kitchen 1418.
68. T2.07 - TECHNOLOGY FIRST FLOOR PLAN - AREA G
- a. Add technology plan keyed notes.
  - b. Add existing cameras in corridor 1011.
69. T2.08 - TECHNOLOGY 1ST FLOOR PLAN - AREA H
- a. Add technology plan key notes.
  - b. Add tag for rack in mech 1515 which refers to key notes.
  - c. Add door contacts for 1425-2, 1425-4, 1517G-1, 1517F-1.
  - d. Add 'SS' to Industrial Technology-1.
70. T2.09 - TECHNOLOGY SECOND FLOOR PLAN - AREA A
- a. Add speakers to corridor 2000.
  - b. Add and revise the quantity of data outlets in some spaces.
71. T2.10 - TECHNOLOGY SECOND FLOOR PLAN - AREA B
- a. Add and revise the quantity of data outlets in classroom 2319, 2324 and 2305.
72. T2.11 - TECHNOLOGY SECOND FLOOR PLAN - AREA C
- a. Add and revise the quantity of data outlets in classroom 2105 and 2121, WORKM 2119 and LA 2124.

73. TE11.12 TE – 1<sup>st</sup> FLOOR CEILING PLAN DRAMA 1221
  - a. Revised pipe spacing from 4' x 4' to 5' x 5'
  
74. TL11.12 TE – 1<sup>st</sup> FLOOR CEILING PLAN DRAMA 1221
  - a. Moved existing pipe mount boxes HD.LPB.01 thru 04 based on pipe spacing change to 5' x 5'.

**PART 3 CLARIFICATIONS**

- Question: The section (133419-9) calls the roof panel is PBR, but as per section (133419-8) calls the roof is standing seam, please clarify. Please specify the gauge for the roof and walls panels.

Answer: Provide roof panels equal to basis of design as specified on Page 8. Roof and wall panel: 24 gauge

**PART 4 PRIOR APPROVALS**

1. Section 05 40 00 Cold Formed Metal Framing – CSM Metal Deck is an approved manufacturer.
2. Section 09 67 23 Resinous Flooring – Dex-O-Tex Epoxy is an approved product.
3. Section 10 73 13 Awnings – Canopy Solutions is an approved manufacturer.
4. Section 12 66 15 Telescopic Bleachers – Interkal is an approved manufacturer. Provide seat option: **Excel** Seat Modules. Refer to specification and basis of design for all other requirement.
5. Section 133419 Pre-Engineered Building – Alliance is an approved manufacturer.

**END OF ADDENDUM NO. 2**

APPROVED FOR ISSUE:

  
By M. Carolina Weitzman, principal, NATEX Architects

END OF DOCUMENT

Total No. of Pages to Addendum No.2: 137 pages.

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# DRAFT AIA® Document A101™ – 2017

## Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

**AGREEMENT** made as of the [DAY]TH day of [MONTH] in the year 2025  
(In words, indicate day, month and year.)

**BETWEEN** the Owner:  
(Name, legal status, address and other information)

Cypress-Fairbanks Independent School District  
11430-B Perry Road  
Houston, Texas 77064  
Telephone: 281-897-4057  
Fax: 281-897-3806

and the Contractor:  
(Name, legal status, address and other information)

« (TBD) »  
« »  
« Telephone: »

for the following Project:  
(Name, location and detailed description)

**PROJECT NAME**  
CFISD Project Number: XX-XX-XXXXR-RFP  
Architect Project No. XXXX

**ADDRESS**

The Architect:  
(Name, legal status, address and other information)

**ARCHITECT INFO**

The Owner and Contractor agree as follows.

**ADDITIONS AND DELETIONS:**  
The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

The parties should complete A101™-2017, Exhibit A, Insurance and Bonds, contemporaneously with this Agreement. AIA Document A201™-2017, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.



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## TABLE OF ARTICLES

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2	THE WORK OF THIS CONTRACT
3	DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION
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### ARTICLE 1 THE CONTRACT DOCUMENTS

The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), all sections of the Project Manual and Construction Documents, Drawings, Specifications, Addenda issued prior to execution of this Agreement, the Contractor's proposal and written amendments or addenda to the proposal, the Contractor's bonds and proof of insurance, other documents listed in this Agreement, Modifications issued after execution of this Agreement, and attached exhibits; these form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. An enumeration of the Contract Documents, other than a Modification, appears in Article 9.

"Construction Documents" means: all drawings, specifications, submittals, transmittals, deliverables, instructions to Contractors, and other documents, including those in electronic form, prepared by the Architect and the Architect's consultants and which set forth in detail the requirements for construction of the Project.

### ARTICLE 2 THE WORK OF THIS CONTRACT

The Contractor shall fully execute the Work described in the Contract Documents, except as specifically indicated in the Contract Documents to be the responsibility of others.

### ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

#### § 3.1

The date of commencement of the Work shall be:  
(Check one of the following boxes.)

- The date of this Agreement.
- A date set forth in a notice to proceed issued by the Owner. The Contractor may not commence construction, however, until all bonds and insurance required by the Contract Documents have been received by the Owner. All bonds and insurance will be reviewed and approved by the Owner for compliance with the Contract Documents prior to the Contractor mobilizing onsite. Upon Owner approval, the Contractor will be allowed to mobilize onsite.
- Established as follows:  
(Insert a date or a means to determine the date of commencement of the Work.)

If a date of commencement of the Work is not selected, then the date of commencement shall be the date of this Agreement.

§ 3.2 The Contract Time shall be measured from the date of commencement.

§ 3.3 The Contractor shall achieve Substantial Completion of the entire Work not later than the date(s) listed below:

*(Insert number of calendar days. Alternatively, a calendar date may be used when coordinated with the date of commencement. If appropriate, insert requirements for earlier Substantial Completion of certain portions of the Work.)*

Portion of Work	Substantial Completion Date
Entire Scope of Work	[REFER TO SUMMARY OF WORK]

subject to adjustments of the Contract Time as provided in the Contract Documents.

*(Insert provisions, if any, for liquidated damages relating to failure to achieve Substantial Completion on time or for bonus payments for early completion of the Work.)*

Contractor shall achieve buy out of all subcontracts and trades within thirty (30) days following Notice to Proceed.

Contractor shall provide complete Schedule of Values within thirty (30) days following Notice to Proceed.

Liquidated Damages: Refer to AIA Document A201™–2017, General Conditions of the Contract for Construction as amended, Article 8.4.

**ARTICLE 4 CONTRACT SUM**

§ 4.1 The Owner shall pay the Contractor the Contract Sum in current funds for the Contractor’s performance of the Contract. The Contract Sum shall be XXXX Dollars (\$00.00), subject to additions and deductions as provided in the Contract Documents.

§ 4.1.1 The Contract Sum contains an Owner’s Betterment Allowance in the amount of XXXX Dollars (\$0.00). This allowance is for the sole use of the Owner to be used for changes in the scope of the Work and for the betterment of the Project. Owner’s authorized representative may approve any expenditure from Owner’s Betterment Allowance without further Board of Trustees approval. If the Owner’s Betterment Allowance is not expended or not fully expended, then any unused portion shall belong to the Owner and shall be credited to the Owner in calculating final payment.

§ 4.2 The Contract Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by the Owner:  
*(State the numbers or other identification of accepted alternates. If the bidding or proposal documents permit the Owner to accept other alternates subsequent to the execution of this Agreement, attach a schedule of such other alternates showing the amount for each and the date when that amount expires.)*

Base Proposal in the amount of .....	\$0.00
Total Contract Sum.....	\$0.00
Refer to Exhibit A (includes Base Proposal, Alternate Proposal(s) and Unit Price(s).)	

§ 4.3 Unit prices, if any:  
*(Identify the item and state the unit price and quantity limitations, if any, to which the unit price will be applicable.)*

Item	Units and Limitations	Price per Unit (\$0.00)

Refer to Exhibit A, Form AC – Competitive Sealed Proposal Form, Base Proposal and Alternate Proposal

§ 4.4 Allowances included in the Contract Sum, if any:

(Identify allowance and state exclusions, if any, from the allowance price.)

Item	Allowance Amount
Owner's Betterment Allowance	[REFER TO ALLOWANCE]

## ARTICLE 5 PAYMENTS

### § 5.1 Progress Payments

§ 5.1.1 Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

§ 5.1.2 The period covered by each Application for Payment shall be at equal one-month intervals. No more than one (1) Application for Payment may be submitted within a given calendar month and shall be submitted to the Owner as required in AIA Document A201™-2017, as amended Article 9.3.6.

§ 5.1.3 The Owner shall make payment of the undisputed, certified amount to the Contractor not later than thirty (30) days after Owner received the Application for Payment, that has been certified by the Architect. If errors are discovered by the Owner in the certified Application for Payment, the Owner shall reject the Application for Payment and return it to the Contractor for correction. The specified time period for payment of such Application for Payment will start over on the date the Owner receives the corrected Application for Payment that has been re-certified by the Architect.

§ 5.1.4 Each Application for Payment shall be based on the most recent schedule of values submitted by the Contractor in accordance with the Contract Documents. The schedule of values shall allocate the entire Contract Sum among the various portions of the Work. The schedule of values shall be prepared in such form, and supported by such data to substantiate its accuracy, as the Architect may require. This schedule, unless objected to by the Architect and Owner, shall be used as a basis for reviewing the Contractor's Applications for Payment.

§ 5.1.5 Applications for Payment shall show the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

§ 5.1.6 Subject to other provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

- .1 Take that portion of the Contract Sum properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the Contract Sum allocated to that portion of the Work in the schedule of values, less retainage of five percent (5.0%). Pending final determination of cost to the Owner of changes in the Work, amounts not in dispute shall be included as provided in Section 7.3.8 of AIA Document A201™-2017, General Conditions of the Contract for Construction; as amended;
- .2 Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing), less retainage of five percent (5.0%);
- .3 Subtract the aggregate of previous payments made by the Owner; and
- .4 Subtract amounts, if any, for which the Architect has withheld or nullified a Certificate for Payment as provided in Section 9.5 of AIA Document A201™-2017, as amended.

§ 5.1.7 The progress payment amount determined in accordance with Section 5.1.6 shall be further modified under the following circumstances:

- .1 Add, upon Substantial Completion of the Work, a sum sufficient to increase the total payments to the full amount of the Contract Sum, less such amounts as the Architect shall determine for incomplete Work, retainage applicable to such work and unsettled claims; and
- .2 Add, if final completion of the Work is thereafter materially delayed through no fault of the Contractor, any additional amounts payable in accordance with Section 9.10.3 of AIA Document A201™-2017, as amended.

§ 5.1.8 Reduction or limitation of retainage, if any, shall be as follows:

*(If it is intended, prior to Substantial Completion of the entire Work, to reduce or limit the retainage resulting from the percentages inserted in Sections 5.1.6.1 and 5.1.6.2 above, and this is not explained elsewhere in the Contract Documents, insert here provisions for such reduction or limitation.)*

«The full applicable five percent (5.0%) retainage will be held until Final Completion of the Work associated with the Contract has been achieved. »

§ 5.1.9 Except with the Owner's prior approval, the Contractor shall not make advance payments to suppliers for materials or equipment which have not been delivered and stored at the site.

## § 5.2 Final Payment

§ 5.2.1 Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when:

- .1 the Contractor has fully performed the Contract except for the Contractor's responsibility to correct Work as provided in Section 12.2 of AIA Document A201–2017, as amended, and to satisfy other requirements, if any, which extend beyond final payment; and
- .2 a final Certificate for Payment has been issued by the Architect.
- .3 all project close-out documents in their entirety have been completed, submitted to and approved by the Owner.

§ 5.2.2 Upon verification and approval by the Architect and Owner that all Contract requirements have been completed in their entirety, the Contractor shall submit the final Application for Payment to the Architect for approval and certification. Upon receipt of such final Certificate for Payment, the Owner's final payment to the Contractor shall be made no later than thirty (30) days after the issuance of the Architect's final Certificate for Payment, or as follows:

If the Contractor submits the Final Application for Payment to the Architect prior to the verification and approval by the Architect and Owner that the Contractor has completed all Contract requirements, the Architect will return the Application for Final Payment to the Contractor as NOT APPROVED. If errors are discovered by the Owner in the certified Final Application for Payment, the Owner shall reject the Final Application for Payment and return it to the Contractor for correction. The specified time period for payment of such final Application for Payment will start over on the date the Owner receives the corrected final Application for Payment that has been certified by the Architect. Refer to AIA Document A201™–2017, Article 9 as amended.

§ 5.2.3 At the end of the project, after all work is completed according to the Contract Documents, including all closeout documents, the Owner shall release all retainage to the subcontractors, sub-subcontractors and vendors. The retainage for the General Contractor, including, but not limited to, all work self-performed by the General Contractor; and all general condition line items, shall be held until all lien releases have been provided to and accepted by the Owner.

The Owner's final payment to the Contractor shall be made no later than 30 days after the issuance of the Architect's final Certificate for Payment.

## § 5.3 Interest

Payments due and unpaid under the Contract for undisputed amounts shall bear interest pursuant to Texas Prompt Payment Act.

## ARTICLE 6 DISPUTE RESOLUTION

§ 6.1 Refer to AIA Document A201–2017, Article 4 as amended. For any Claim or dispute not resolved by the process in Article 4 of AIA Document A201-2017, as amended, the method of binding dispute resolution shall be litigation in a court of competent jurisdiction.

## ARTICLE 7 TERMINATION OR SUSPENSION

§ 7.1 The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of AIA Document A201–2017, as amended.

§ 7.2 The Work may be suspended by the Owner as provided in Article 14 of AIA Document A201–2017, as amended.

## ARTICLE 8 MISCELLANEOUS PROVISIONS

§ 8.1 Where reference is made in this Agreement to a provision of AIA Document A201–2017, as amended or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

§ 8.2 The Agreement shall be governed by the laws of the State of Texas, and any litigation shall be conducted in state district court. Mandatory and exclusive venue shall be in Harris County, Texas.

§ 8.3 As a material consideration of the making of this Agreement, the modifications to this Agreement shall not be construed against the maker of said modifications.

§ 8.4 Notwithstanding anything to the contrary in this Agreement, or in any document forming a part hereof, there shall be no mandatory arbitration for any dispute arising hereunder.

§ 8.5 The Contractor may not assign its responsibilities, duties, obligations, and rights under this Agreement, without the express written consent of the Owner. This does not prevent Contractor from engaging subcontractors to perform various phases of the Project, but Contractor shall be fully responsible to Owner for the Work, actions, and omissions of all such subcontractors.

§ 8.6 This Agreement, in its entirety, shall be binding upon all the parties hereto, their respective successor, heirs, executors, administrators, or assigns.

§ 8.7 Execution of this Agreement shall constitute approval and acceptance of all terms, covenants, and conditions as modified and contained in the Contract Documents.

§ 8.8 This Agreement is subject to all applicable federal and state laws, rules, and regulations. Invalidity of any portion of this Agreement under the law of the State of Texas or of the United States shall not affect the validity of the remainder of this Agreement.

§ 8.9 Contractor stipulates that Owner is a political subdivision of the State of Texas, and, as such, enjoys immunities from suit and liability as provided by the constitution and laws of the State of Texas. By entering into this Agreement, Owner does not waive any of its immunities from suit and/or liability, except as otherwise specifically provided herein, and as specifically authorized by law.

§ 8.10 The Owner's representative:  
*(Name, address, email address, and other information)*

Matthew Morgan  
Chief Operations Officer/Associate Superintendent  
Facilities, Construction & Support Services  
Cypress-Fairbanks Independent School District  
11440 Matzke Road  
Cypress, Texas 77429  
Telephone: 281-517-2809  
Fax: 281-517-2114

Jesse Clayburn  
Assistant Superintendent of Facilities and Construction  
Cypress-Fairbanks Independent School District  
11440 Matzke Road  
Cypress, Texas 77429  
Telephone: 281-897-4057  
Fax: 281-897-3806

PROJECT MANAGER  
 Project Manager  
 Cypress-Fairbanks Independent School District  
 11430 Perry Road  
 Houston, Texas 77064  
 Telephone: 281-XXX-XXXX  
 Fax: 281-897-3806

§ 8.11 The Contractor's representative:  
 (Name, address, email address, and other information)

<< >>  
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§ 8.12 Neither the Owner's nor the Contractor's representative shall be changed without ten (10) days written notice to the other party.

§ 8.13 Other Provisions

§ 8.13.1 All terms "Bidders" and "Bids" are modified to "Proposers" and "Proposals".

§ 8.13.2 Contractor and each subcontractor and sub-subcontractor assigning hereby assigns to Owner any and all claims for overages associated with this Contract which arises under the Antitrust laws of the United States, 15 U.S.C.A. Section 1, et.seq (1973).

**ARTICLE 9 ENUMERATION OF CONTRACT DOCUMENTS**

§ 9.1 The Contract Documents, except for Modifications issued after execution of this Agreement, are enumerated in the sections below.

§ 9.1.1 The Agreement is this executed AIA Document A101–2017, Standard Form of Agreement Between Owner and Contractor, as amended.

§ 9.1.2 The General Conditions are AIA Document A201–2017, General Conditions of the Contract for Construction as amended.

Document	Title	Date	Pages
Section CA Section CB	Application for Payment Checklist Supplementary Conditions to the General Conditions of the Contract for Construction as Amended		
Section CC	Right to Audit		

§ 9.1.3 The Supplementary and other Conditions of the Contract:

Document	Title	Date	Pages
Exhibit A	Forms AC, AE, AF, AG, AH, AN and Resumes		
Exhibit B	Front End Documents Table of Contents		

§ 9.1.4 The Specifications:  
 (Either list the Specifications here or refer to an exhibit attached to this Agreement.)



« »

Section	Title	Date	Pages
Exhibit C	Specifications Table of Contents		

§ 9.1.5 The Drawings:  
*(Either list the Drawings here or refer to an exhibit attached to this Agreement.)*

« »

Section	Title	Date	Pages
Exhibit D	Index of Drawings		

§ 9.1.6 The Addenda, if any:

Number	Date	Pages
Addendum No. 1		

Portions of Addenda relating to bidding requirements are not part of the Contract Documents unless the bidding requirements are also enumerated in this Article 9.

§ 9.1.7 Additional documents, if any, forming part of the Contract Documents:

Other documents, if any, listed below:

*(List here any additional documents that are intended to form part of the Contract Documents. AIA Document A201–2017, as amended provides that bidding requirements such as advertisement or invitation to bid, Instructions to Bidders, sample forms and the Contractor’s bid are not part of the Contract Documents unless enumerated in this Agreement. They should be listed here only if intended to be part of the Contract Documents.)*

Section	Title	Date	Pages
Exhibit E	Section 01 35 23 Special Owner Requirements		
Exhibit F	Post Proposal Addendum No. X (If Applicable)		

**ARTICLE 10 INSURANCE AND BONDS**

§ 10.1 The Contractor shall purchase and maintain insurance and provide bonds as set forth in Article 11 of AIA Document A201–2017, as amended and Section BD of the project specifications.

This Agreement entered into as of the day and year first written above.

**OWNER** *(Signature)*

«Scott Henry, President of the Board of Trustees or  
 Administrative Designee  
 «Administrative Designee:  
 Mr. Matthew Morgan,  
 Chief Operations Officer/Associate Superintendent  
 of Facilities, Construction & Support Services »

*(Printed name and title)*

**CONTRACTOR** *(Signature)*

« »  
 « »  
 « »  
 « »  
 « »  
 « »

*(Printed name and title)*



## SECTION 01 21 00

### ALLOWANCES

CONDITIONS OF THE CONTRACT AND DIVISION 1, as applicable, apply to the Section.

#### PART 1 – GENERAL

Refer to Document AB for Substitutions of Materials and Equipment

#### 1.1 CONDITIONS

- A. ALLOWANCES shall be included in the Contract sum as specified within this Specification Section in paragraph 3.1 below. These sums shall be reconciled as per AIA Document A201™–2017, as amended.
- B. Where allowances are for materials only, the cost of delivery to the job site may be funded from such allowance.
- C. Allowances are hereby established for the items in the amounts listed below. If any items exceed the amount listed, such excess cost shall be paid by the Owner. If any items cost less than the amount listed, the Owner shall be given a credit in the amount of the difference. Costs of items listed below are to be net costs to the General Contractor or Subcontractor, whichever makes the direct purchase.
- D. The Contractor shall include in the Contract Sum all allowances stated in the Contract Documents. These allowances shall cover the net cost of the materials and equipment delivered and unloaded at the site, and all applicable taxes.
  - 1. The Contractor's handling costs on site, labor, installation cost, estimating, labor burden, overhead, profit and other expenses contemplated for the original allowances shall be included in the Contractor's Sum and not in the allowance. Subcontractor and sub-subcontractor markups are allowable as provided in AIA Document A201™–2017, as amended.
  - 2. The Contractor shall cause the work covered by these allowances to be performed for such amounts and by such persons as the Architect may direct, but he will not be required to employ persons against whom he makes reasonable objection.
  - 3. The cost, when determined, is more than or less than the allowance, the Contract Sum shall be adjusted accordingly by Change Order which may include additional handling costs on the site, labor, installation costs, overhead, profit, cleaning, as-builts, standard warranty, cost to update electronic record documents and other expenses resulting to the Contractor from any increase over the original allowance if approved.
- E. Contractor shall proceed with the work in question only after receiving written directions executed by the Owner and the Architect. Owner will not be obligated to pay the cost of any work without prior authorization. This written directive shall consist of Owner's representative and Architect's signature on Change Proposal Request document submitted by General Contractor with any applicable amendments if required indicating such approval. The Architect and Owner shall respond in a timely manner to document approved Change Proposal Request (CPR) expenditures and credits from such allowances within the contract. The Contractor may request payment for such approved expenditures only upon completion of the work and the completion of a fully executed CPR formally documenting allowance expenditure credits. The Contractor's overhead and profit relative to these allowance sums and work performed in accordance herewith, shall be included in the total Proposal prices, thus not included in the allowance sum. Unexpended balance of allowance sums shall revert to the Owner by Change Order in the final settlement of the contract.

## **PART 2 - PRODUCTS**

Not Used

## **PART 3 - EXECUTION**

### **3.1 ALLOWANCES**

- A. Owner's Betterment Allowance: \$3,852,000.00
1. Contractor shall include the amount indicated above in his Base Proposal as a contingency to cover the cost of additional scope of work. Contractor shall proceed with the work in question only after receiving written directions executed by the Owner and the Architect. Owner will not be obligated to pay the cost of any work performed without prior written authorization. The Contractor's overhead and profit relative to this contingency sum and work performed in accordance herewith, shall be included in the total Base Proposal price, but not included in the contingency sum. Unexpended balance of contingency sums shall revert to the Owner via Change Order during project closeout. Other scopes to be funded from this allowance may include, but are not limited to:

- MUD Utility Charges
- Building Controls
- TDLR
- Relocation Services Furniture and Dumpsters
- Emergency Radio Amplification (Anthony Only)
- Video Surveillance License Upgrade
- Fire Marshall Items
- Promethean Board Move

**END OF SECTION**

## SECTION 02 30 00

### SUBSURFACE INVESTIGATION

CONDITIONS OF THE CONTRACT AND DIVISION 1, AS APPLICABLE, APPLY TO THIS SECTION.

#### PART 1 - GENERAL

##### 2.01 THE FOUNDATION INVESTIGATION REPORT

- A. There are two Geotechnical Investigations, "Geotechnical Engineering Reports as follows:
1. Entitled: CFISD Anthony Middle School Building Additions Geotechnical Engineering Report  
Prepared for: *Cy-Fair Independent School District c/o Natex Architects*  
Prepared by: *Terracon Consultants, Inc.*  
Dated: September 6, 2024
  2. Entitled: CFISD Hopper Middle School Building Additions Geotechnical Engineering Report  
Prepared for: *Cy-Fair Independent School District c/o Natex Architects*  
Prepared by: *Terracon Consultants, Inc.*  
Dated: September 9, 2024
  3. Entitled: CFISD Kahla Middle School Building Additions Geotechnical Engineering Report  
Prepared for: *Cy-Fair Independent School District c/o Natex Architects*  
Prepared by: *Terracon Consultants, Inc.*  
Dated: September 10, 2024
- B. The boring plans, results of laboratory tests, and description of stratum for each test hole are enclosed in this Section. A complete copy of the Geotechnical reports are included herein.
- C. The Contractor is advised to review the Geotechnical Reports and visit the site to ascertain the conditions affecting the Work. In the event of discrepancies between the Drawings, Specifications, Geotechnical Reports, the Geotechnical reports shall take precedence. In the absence of a Geotechnical Report, discrepancies between the Drawings and Specifications shall be brought to the attention of the Architect for resolution. Failure to review the Geotechnical Reports and report all discrepancies, between the Geotechnical Reports and Drawings and Specifications, to the Architect will not relieve the Contractor from the responsibility to perform the work required by such documents, at no additional expense to the Owner.

##### 2.02 SOIL CONDITIONS

- A. The conditions indicated in the reports were known to exist at the location shown on the date the tests were performed; however, these boring logs are for the Construction Manager's/Contractor's consideration only, and he shall visit the site and fully acquaint himself with the existing conditions and be prepared to complete all work required by the documents.

#### PART 2 - PRODUCTS

##### 3.01 NOT USED

#### PART 3 - EXECUTION

##### 4.01 NOT USED

END OF SECTION 02 30 00

## SECTION 03 54 16

### HYDRAULIC CEMENT UNDERLAYMENT

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

- A. Liquid-applied self-leveling floor underlayment for resilient tile installation.
  - 1. Use hydraulic cement underlayment for application below interior floor coverings.

##### 1.02 REFERENCE STANDARDS

- A. ASTM F710 - "Standard Practice for Preparing Concrete Floors To Receive Resilient Flooring".
- B. ASTM C1708 - "Standard Test Method for Self-Leveling Mortars Containing Hydraulic Cements".
- C. ASTM F2170 - "Standard Test Method for Determining Relative Humidity in Concrete Slabs Using in-situ Probes".
- D. ASTM F1869 - "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride".
- E. ASTM C150 - "Standard Specification for Portland Cement".

##### 1.03 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's data sheets documenting physical characteristics and product limitations of underlayment materials. Include information on surface preparation, environmental limitations, and installation instructions.
- C. Environmental Product Declaration (EPD).
- D. Independent Laboratory Test Report: ASTM C1708 / C1708M-16.

##### 1.04 QUALITY ASSURANCE

- A. Applicator Qualifications: Company specializing in performing the work of this section, and approved by manufacturer.

##### 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Store all products indoors in original unopened packaging. Keep all materials dry and away from direct sun exposure in moderate conditions between temperatures of 50 °F to 90 °F (10 °C to 32 °C).

##### 1.06 MOCK-UP

- A. Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  - 1. Prepare mock-up in location designated by Architect.
  - 2. Area: 6 ft by 6 ft (2 m by 2 m).
- B. Mock-up may remain as part of the Work.

##### 1.07 FIELD CONDITIONS

- A. Do not install underlayment until floor penetrations and peripheral work are complete.
- B. Maintain minimum ambient temperatures of 50 degrees F (10 degrees C) 24 hours before, during and 72 hours after installation of underlayment.

##### 1.08 WARRANTY

- A. Provide minimum 10 year manufacturer system warranty for LVT installation utilizing all products required per the manufacturer to achieve. Basis of design warranty to be Uzin Utz Classic + 10 warranty.

#### PART 2 PRODUCTS

##### 2.01 MANUFACTURER

- A. Basis of Design : Uzin Utz North America, Inc.
- B. Mapei

## SECTION 03 54 16

### HYDRAULIC CEMENT UNDERLAYMENT

- C. Sika USA
- D. Or approved equal (submitted for review during bid process)

#### MATERIALS

- A. **Basis of Design** Cementitious Underlayment: Blended cement mix, that when mixed with water in accordance with manufacturer's directions will produce a self-leveling underlayment.
  - 1. UZIN NC 150
    - Compressive Strength: Minimum 4500 psi (31.03 MPa) after 28 days, tested per ASTM C1708.
    - Flexural Strength: Minimum 900 psi (6.21 MPa) after 28 days, tested per ASTM C1708.
    - Thickness: Capable of thicknesses from 1/16" (1.5 mm) to maximum 1" (25mm).
  - 2. UZIN NC 157
    - Compressive Strength: Minimum 6000 psi (41.37 MPa) after 28 days, tested per ASTM C1708.
    - Flexural Strength: Minimum 1100 psi (7.58 MPa) after 28 days, tested per ASTM C1708.
    - Thickness: Capable of thicknesses from 1/4" (6 mm) to maximum 2" (50 mm).
  - 3. UZIN NC 170
    - Compressive Strength: Minimum 6000 psi (41.37 MPa) after 28 days, tested per ASTM C1708.
    - Flexural Strength: Minimum 1000 psi (6.89 MPa) after 28 days, tested per ASTM C1708.
    - Thickness: Capable of thicknesses from 1/16" (1.5 mm) to maximum NO DEPTH LIMITATION (\_\_\_mm).
  - 4. UZIN NC 172
    - Compressive Strength: Minimum 8000 psi (55.16 MPa) after 28 days, tested per ASTM C1708. (24-hour compressive strength of 4500 psi (31.03 MPa.)
    - Flexural Strength: Minimum 1800 psi (12.41 MPa) after 28 days, tested per ASTM C1708.
    - Thickness: Capable of thicknesses from 1/16" (1.5 mm) to maximum NO DEPTH LIMITATION (\_\_\_mm).
  - 5. UZIN NC 144 LW
    - Compressive Strength: Minimum 3000 psi (20.68 MPa) after 28 days, tested per ASTM C1708.
    - Flexural Strength: Minimum 600 psi (4.14 MPa) after 28 days, tested per ASTM C1708.
    - Thickness: Capable of thicknesses from 1/4" (6 mm) to maximum 2" (50 mm).
    - Lightweight: Dry Density of 67.0 ±2 lbs./ft<sup>3</sup> (1.40 lbs./ft<sup>2</sup> at 1/4").
- B. Low Emitting
  - 1. VOC content: 0g/L. Compliant with SCAQMD rule 1113.
  - 2. Certified: SCS Indoor Advantage Gold
- C. Water: Potable and not detrimental to underlayment mix materials.

#### 2.02 MIXING

- A. Site mix materials in accordance with manufacturer's instructions.
- B. Mix to self-leveling consistency without over-watering.

#### 2.03 ACCESSORIES

- A. Primer:
  - 1. Gypsum Concrete: Two coat application of UZIN PE 260 Primer (diluted to absorbency requirement

## SECTION 03 54 16

### HYDRAULIC CEMENT UNDERLAYMENT

- to seal substrate).
  - 2. Standard Absorbent Concrete: UZIN PE 260 Primer (diluted to absorbency requirement to seal substrate).
  - 3. Extremely Absorbent Concrete: Two coat application of UZIN PE 260 Primer (diluted to absorbency requirement to seal substrate).
  - 4. Wood: UZIN PE 260 Primer (undiluted).
  - 5. Metal: UZIN PE 414 or PE 460 (seek technical guidance before proceeding).
  - 6. Other Non-Porous Substrates: UZIN PE 280 Primer.
- B. Joint Filler:
- 1. Low-odor, 2-component, semi-rigid, polyurea joint filler: UZIN KR 518.
- C. Reinforcing Fibers: Can be used to improve impact resistance and control shrinkage of any UZIN self-leveling compound when used on demanding surfaces. Reduces cracking of the leveling compound when used on unsound substrates.
- 1. Substrate Reinforcing Fibers – UZIN Bagged Fiber.
  - 2. Substrate Reinforcing Mesh (Sheets) – UZIN RR 201.
- D. Adhesive:
- 1. Provide UZIN adhesive as required to achieve system warranty based on final system products needed to achieve the noted installation warranty type.

### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Verify that substrate surfaces are clean, dry, unfrozen, do not contain petroleum byproducts, or other compounds detrimental to underlayment material bond to substrate.
- B. Moisture Testing: Perform testing according to ASTM F2170. Provide 3 tests for the first 1,000 sq.ft. of floor area plus 1 additional test for each 1,000 sq.ft. thereafter.
- 1. Relative Humidity Test: Using in situ probes, follow ASTM F2170. Proceed with installation only if the substrate is within spec of the underlayment, adhesive, and finished floor covering manufacturers' limitations.
  - 2. For concrete substrates with high residual moisture, notify owner, owner's rep and manufacturer for recommended preparation to achieve system installation warranty

#### 3.02 PREPARATION

- A. Remove substrate surface irregularities. Fill voids and deck joints with filler. Finish smooth.
- B. Vacuum clean surfaces.
- C. Prime substrate in accordance with manufacturer's instructions. Allow to dry.
- D. Close floor openings.

#### 3.03 APPLICATION

- A. Install underlayment in accordance with manufacturer's instructions. Always refer to the most current product information at us.uzin.com.
- B. Pump or pour material onto substrate. Do not retemper or add water.
  - 1. Pump, move, and screed while the material is still highly flowable.
  - 2. Be careful not to create cold joints.
  - 3. Wear spiked shoes while working in the wet material to avoid leaving marks.
- C. Place to indicated thickness, with top surface level to 1/8 inch in 10 ft (1:1000).
- D. If a fine, feathered edge is desired, steel trowel the edge after initial set, but before it is completely hard.

#### 3.04 CURING

- A. Once underlayment starts to set, prohibit foot traffic until final set has been reached.

#### 3.05 PROTECTION

**SECTION 03 54 16**

**HYDRAULIC CEMENT UNDERLAYMENT**

- A. Protect against direct sunlight, heat, and wind; prevent rapid drying to avoid shrinkage and cracking.
- B. Do not permit traffic over unprotected floor underlayment surfaces.

**END OF SECTION**

**SECTION 22 13 16**  
**SOIL, WASTE AND SANITARY DRAIN PIPING, VENT PIPING AND APPURTENANCES**

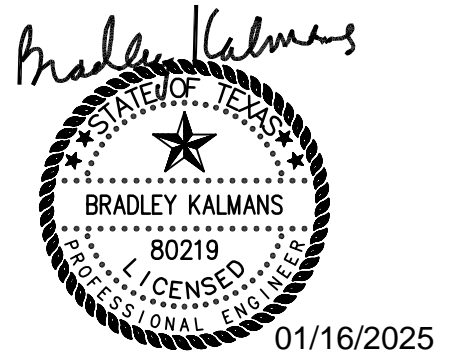
**PART 1 - GENERAL**

**1.1 WORK INCLUDED**

- A. Furnish and install piping in buildings and underground laterals to 5 foot outside of building.

**1.2 RELATED WORK**

- A. Site Work:
  - 1. Sanitary Sewers
  - 2. Excavation, Trenching and Backfilling for Utilities
- B. Division 22 Plumbing:
  - 1. Pipe and Pipe Fittings
  - 2. Plumbing Fixtures and Fixture Carriers
  - 3. Drains, Cleanouts and Hydrants
  - 4. Earthwork



**1.3 REFERENCES**

- A. CISPI - Cast Iron Soil Pipe Institute
- B. ASTM - American Society for Testing and Materials

**PART 2 - PRODUCTS**

**2.1 ACCEPTABLE MANUFACTURERS**

- A. All No-Hub clamps must have 4 bands minimum. Sizes 5" through 10" shall have six bands minimum.
  - 1. No-Hub Clamps – Sanitary Waste:
    - a. Husky SD 4000
  - 2. No-Hub Clamps - Vents
    - a. Husky SD – 2000
    - b. Mission Rubber Co., LLC Heavy Weight Couplings
- B. Provide Husky shielded couplings Series 4200 with one piece neoprene gasket for all cast iron pipe transitions to Schedule 40 DWV pipe penetrations through slabs. Sizes 1-1/2" through 8" Series 4200.
- C. Cast Iron Soil Pipe and Fittings:
  - 1. AB&I
  - 2. Charlotte Pipe and Foundry Co.
  - 3. Tyler Pipe / Soil Division

**2.2 DRAIN PIPE AND FITTINGS**

- A. Above Slab Pipe:
  - 1. No-hub cast iron soil pipe and fittings shall conform to CISPI 301 and ASTM A888.
  - 2. Pipe shall conform to ASTM A74.
  - 3. No-hub couplings shall meet or exceed the latest specification standard CISPI 310 or ASTM C-1540 and conform to FM 1640. CISPI 310 Couplings shall be listed by NSF International.
  - 4. Rubber Gaskets for cast iron soil pipe and fittings shall conform to ASTM C564
  - 5. All Cast Iron Soil Pipe and Fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute
- B. Below Slab on Grade Piping:



1. Schedule 40 PVC plastic pipe and DWV fittings. 4" SDR pipe is not allowed.
  2. Solvent welded DWV joints shall conform to IAPMO Installation Standard IS-9.
  3. Pipe and fittings shall conform to ASTM D 1784, ASTM D 1785, ASTM D 2665, ASTM D 3311 and NPS Standard 14 & 61.
- C. Below Slab on Grade Piping for Grease Waste as indicated on Drawings for Hot Grease Waste Discharge:
1. Schedule 40 CPVC pipe and fittings
  2. Solvent welded DWV joints shall conform to ASTM D3311 and be produced to dimensions specified in ASTM F 2618, NSF International, UPC, IAPMO IGS 210 and International Plumbing Code.
  3. Solvent Cement, Heavy Body; mustard yellow color, as tested by ASTM F 2618 / ASTM F493
  4. Manufacturer: Spears (only)

### **2.3 VENT PIPE AND FITTINGS**

- A. Above Slab Pipe:
1. No-hub cast iron soil pipe and fittings shall conform to CISPI 301 and ASTM A888.
  2. Pipe shall conform to ASTM A74.
  3. No-hub couplings shall conform to CISPI 310 and shall be listed by NSF International
  4. Rubber gaskets for cast iron soil pipe and fittings shall conform to ASTM C564
- B. Below Slab on Grade Piping:
1. Provide Schedule 40 PVC with DWV fittings with solvent welded joints. Pipe and fittings shall conform to ASTM D1784-82.
- C. Above Slab Pipe.
1. Drainage-waste-vent copper pipe and fittings for waste stub-outs for all fixture locations and equipment discharge.

## **PART 3 - EXECUTION**

### **3.1 INSTALLATION**

- A. All above and below slab soil, waste, sanitary drain and vent piping installation methods shall be in accordance with Cast Iron Soil Pipe Institute Standards.
- B. Above ground installation in the horizontal position shall be supported at every hub (hub & spigot or hubless type). Hangers are to be placed within 18" of hub or coupling. For large diameter fittings, 5 inches and larger shall be braced to prevent horizontal movement. Every branch opening or change of direction, braces, blocks, rodding or other suitable method shall be used to prevent movement. Riser clamps to be used for each floor, not to exceed 15'-0".
- C. All above and below slab PVC sanitary waste and vent piping installation methods shall be in accordance with IAPMO Installation Standard 18-9 for Schedule 40 PVC-DWV, per manufacturer's recommendations and applicable standards.
- D. Tracer wires shall be installed on all underground PVC sanitary sewer lines installed outside the building slab.
- E. All PVC underground shall be installed in accordance with ASTM D2321.

### **3.2 GRADE**

- A. Give horizontal pipe grade of 1/4-inch per foot where possible, but not less than 1/8 inch per foot unless otherwise shown.

### 3.3 DRAIN PIPE AND FITTINGS

- A. Offsets and Fittings.
  - 1. Use reduction fittings to connect two pipes of different diameter.
  - 2. Change directions by appropriate use of 45-degree wyes, long-sweep quarter-bends, and sixth-, eighth-, and sixteenth-bends. Sanitary tees can be used on vertical stacks. Use long sweeps at the base of risers.
  - 3. Provide a separate trap at each fixture, unless a trap is built into the fixture. Provide a deep seal trap at each floor drain and hub drain. Place traps so that the discharge from any fixture will pass through only one trap before reaching a building drain.
  - 4. Do not use double combinations or cross fittings below slab.
  - 5. Refer to Sanitary Drainage Code section for acceptable fittings to be used for changes in direction of drainage flow. Double combo sanitary fittings or double wye and 1/8<sup>th</sup> bend fittings are not allowed for horizontal to horizontal piping systems per Code.
- B. Hub Drains. Install hub drains where indicated, with the top of the hub 1/2 above the finished floor, unless otherwise indicated on the drawings.
- C. Cleanouts. Install cleanouts the same size as the soil waste lines in which the cleanouts are placed; however, no cleanout should be larger than 4 inches in diameter.
  - 1. Where cleanouts occur in pipe chases, bring the cleanouts through the walls and install covers. Where cleanouts occur in floor slabs, set flush. Reference drawing schedule.
  - 2. Provide cleanouts where soil lines change direction, every 75 foot on long runs, or as shown on the drawings, at the end of each horizontal waste line, and at the base of each riser (and at each increase in pipe size).
  - 3. Cleanouts shall occur at the end of each battery of water closets, urinals, lavatories, sinks, and single water closets. Cleanouts shall be installed so as to access the main sanitary or soil line. Extend and offset above flood rim of water closet.
  - 4. Double sanitary tees and double quarter bends do not allow for easy access to main lines, therefore these types of fittings are not allowed.
  - 5. Provide cleanout above all sanitary cross fittings and Figure 5 fittings in chase walls, etc.
  - 6. Do not provide gasket markers in carpeted areas. Do provide full cleanouts with top fully exposed.
  - 7. For large garbage disposers in kitchens, install a cleanout between the disposer and the P-trap and at the wall.
  - 8. Notify civil to have manholes at connections to main at each exit point.
- D. Floor Drains. Locate floor drains 1/2-inch below finish floor elevation unless otherwise shown.

### 3.4 VENT PIPING

- A. Make vent connections to vent stacks with inverted wye fittings. Extend full-size vents through the roof to at least 6 inches above the roof.
- B. Flash the roof penetration with 6 lb. lead flashing approximately 24 inches square. Flange the flashing to the lead sleeve. Extend the flashing up and around the vent pipe. Turn the flashing down inside the pipe at least 2 inches to make a watertight joint. Flashing shall comply with the roofing manufacturer's requirements. Reference the Architectural Drawings for exact requirements.
- C. Locate vent piping through roof a minimum horizontal distance of not less than 20 feet from any air intake opening or supply fan.

- D. During demolition, abandoned plumbing vents are to be removed in their entirety. Do not cap the vent pipes below the roof deck and abandon in place. The hole in the roof is to be patched and made water tight.

### 3.5 TESTING

- A. Below Slab on Grade and All Floors in Multi-Story Buildings:
  - 1. Test pipe below slab on grade before backfilling and connecting to city sewers.
  - 2. Maintain not less than 10 foot of hydrostatic head for 1 hour without a leak.
  - 3. Before acceptance of the work the contractor must ensure the piping is in working order before and after the slab is poured. To ensure this the contractor must test completed systems in the presence of the Architect, Engineer and authorities having jurisdiction after installation is complete.
  - 4. Maintain the test on the system till after the slab is poured. Provide an accessible connection that may be reviewed by Architect, Engineer and authorities having jurisdiction prior to and after the slab is poured.
  - 5. Test drainage piping systems in accordance with governing codes and the requirements specified. Provide equipment and materials and make test connections required to execute tests.
  - 6. Test drainage and waste piping hydraulically by filling system to its highest point or, whichever is greater, at a static head of 10 feet. Leaks at any joint shall be sufficient cause for rejection.
  - 7. Air tests may be substituted for hydraulic tests by forcing air into the closed system at a uniform pressure sufficient to balance a column of 10 inch hg in height.
  - 8. Under any of the previously described tests, the water height shall remain constant, after stabilization, for not less than 15 minutes without any further addition of water.
- B. System Test. After the various sections of soil, waste and vent piping are installed, but before fixtures are connected, test the system by:
  - 1. Plugging outlets.
  - 2. Filling vertical sections of multiple story buildings of not less than three floors at a time with water. Provide wyes as required to facilitate plugging.
  - 3. Test for 6 hours without any drop in the water level.

### 3.6 RODDING SEWERS

- A. All sanitary soil and waste lines, both in the building and out, shall be rodded out and flushed out after completion of construction and prior to finish floor being installed. All work must be completed prior to substantial completion. All floor drains and cleanout locations must be included in this work.
- B. All sanitary soil and waste lines below building 3" and larger shall be internally videotaped at time of substantial completion and on existing piping prior to construction. All videotaping shall include on-screen date and time and include audio narration. All videotaping shall be provided by experienced individual in videotaping piping systems. CFISD must be notified 24 hours prior to start time of video inspection. An Owner's Representative, CFISD plumbing foreman, or his designee shall be present during videotaping. Three copies of the videotape shall be delivered to the Owner for future records.
- C. This work shall be done in the presence of the Owner's Representative, CFISD plumbing foreman, or his designee as part of the Contract, to ensure all lines are clear, and any obstruction that may be discovered shall be removed immediately. Rodding shall be accomplished by utilizing the proper rotary head to clear sewer. Pipe sizes 8 inches and larger shall be hydro-flushed.

### 3.7 SMOKE TESTING – LIQUID SMOKE SYSTEM

#### A. Interior Plumbing Piping:

1. Contractor shall perform smoke testing for finding leaks in all interior of building sanitary sewer piping, acid waste and vent piping, and sanitary vent piping above and below building slab prior to cover up.
2. Contractor must use a laboratory tested safe liquid smoke with a patented liquid smoke generating system. The liquid smoke must be contained in a pressure tank with inline filter and quick disconnect.
3. Contractor shall provide a continuous smoke flow for testing the entire piping system in lieu of partial testing done by sections at a time. Partial testing will not be acceptable.
4. Smoke generating system must generate up to 3 hours or more of continuous and constant smoke. Generating system must have a metering valve to precisely control smoke flow and density. Smoke generating system must have a 4" x 6" industrial flexible mining duct for connection to vent stack or cleanout or sit atop a manhole outside.
5. Smoke generating system must be power full enough to push smoke through the smallest leaks.
6. The liquid smoke must not leave any stains or odors.
7. The liquid smoke shall not contain Zinc Chloride, a listed toxic compound in OSHA 1915,1000 – Air contaminants.
8. Smoke generating system must have a means to atomize the liquid smoke and have an enclosed fan system capable of up to 700 cfm with adjustable inlet damper control to adjust cfm as necessary for the size of system.
9. Provide Hurco "Power smoker "with Hurco "LiquiSmoke" system or approved equal. No smoke bombs allowed.
10. All plumbing fixtures must be installed including floor drains with wetted trap seals.
11. Smoke testing shall be performed after completion of any videotaping, rodding or flushing of the sanitary system. Test must be performed prior to ceiling installation in new construction projects. Smoke is usually injected into the building through the two-way cleanout in the main sewer line leaving the building or a plumbing roof vent or fixture. Plug piping as necessary as to force all smoke into building. Smoke can also be admitted through a manhole. Smoke will travel through the sanitary sewer and vent system and through the air spaces in the sewer lines and emanate from any leaks in the system. The smoke must reach the last roof vent in the system to indicate the entire system has been completely filled with smoke. The smoke must travel the full length of the piping system. Contractor must provide manpower as necessary to visually trace the flow of smoke through the wall cavities, annular floor/ceiling spaces, inject the smoke, observe the roof vents and to identify the integrity problems.
12. Contractor shall provide a detailed list of findings and a drawing indicating the location, fixture type, type and size of pipe, and or description of type of problems found.
13. Typical findings from indoor smoke testing may include:
  - a. Dry traps in floor drains
  - b. Improperly capped sewer lines or vents
  - c. Broken sewer lines or vents
  - d. Cross connected sewer vents and drains
  - e. The drawing of air emanating from sewer vents into intakes of air exchange systems

- f. Poorly glued pipe joints
  - g. Loose no-hub couplings
14. An Owner's Representative shall be present during smoke testing.

**END OF SECTION**

**SECTION 28 10 00.05**  
**DOOR INTERCOM SYSTEM**

**PART 1 - GENERAL**

**1.1 RELATED WORK**

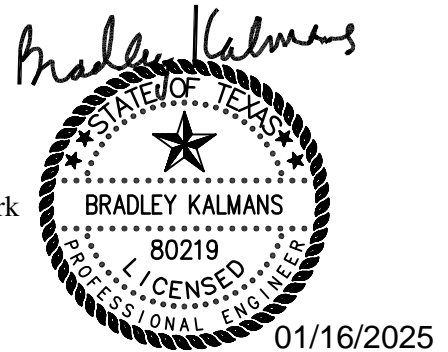
- A. The following, in their entirety and as applicable, shall apply to this section. Including any associated drawings.
1. Conditions of the Contract
  2. Division 1
  3. Division 26
  4. Division 27
  5. Division 28

**1.2 SYSTEM DESCRIPTION**

- A. General Requirements:
1. The specified unit shall be of manufacturer's official product line, designed for commercial and/or industrial 24/7/365 use.
  2. The specified unit shall be based upon standard components and proven technology using open and published protocols.
- B. Sustainability
1. The specified unit shall be manufactured in accordance with ISO 14001.
  2. The specified unit shall be compliant with the EU directives 2011/65/EU (RoHS) and 2012/19/EU (WEEE).
  3. The specified unit shall be compliant with the EU regulation 1907/2006 (REACH).
- C. Scope of Work – replace existing AiPhone door and master stations with current district standard door and master station as described in Part 2 of this specification.

**1.3 CERTIFICATIONS AND STANDARDS**

- A. General abbreviations and acronyms
1. AES: Advanced Encryption Standard
  2. API: Application Programming Interface
  3. Bit Rate: The number of bits/time unit sent over a network
  4. DHCP: Dynamic Host Configuration Protocol
  5. DNS: Domain Name System
  6. FPS: Frames per Second
  7. FTP: File Transfer Protocol
  8. H.264 (Video Compression Format)
  9. IEEE 802.1x: Authentication framework for network devices
  10. IP: Internet Protocol
  11. IR light: Infrared light
  12. ISO: International Standards Organization
  13. JPEG: Joint Photographic Experts Group (image format)
  14. LAN: Local Area Network
  15. LED: Light Emitting Diode
  16. MPEG: Moving Picture Experts Group
  17. Multicast: Communication between a single sender and multiple receivers on a network
  18. NTP: Network Time Protocol
  19. ONVIF: Global standard for the interface of IP-based physical security products
  20. PACS: Physical Access Control System



21. PoE: Power over Ethernet (IEEE 802.3af/at) standard for providing power over network cable
  22. Progressive scan: An image scanning technology which scans the entire picture
  23. QoS: Quality of Service
  24. RPC: Remote Procedure Call
  25. SIP: Session Initiation Protocol
  26. SMTP: Simple Mail Transfer Protocol
  27. SNMP: Simple Network Management Protocol
  28. SSL: Secure Sockets Layer
  29. TCP: Transmission Control Protocol
  30. TLS: Transport Layer Security
  31. Unicast: Communication between a single sender and single receiver on a network
  32. UPS: Uninterruptible Power Supply
  33. VBR: Variable Bit Rate
  34. VMS: Video Management System
  35. WDR: Wide dynamic range
- B. The specified unit shall carry the following EMC approvals:
1. EN55032: 2012
  2. EN55024: 2010
  3. 2014/35/EU
  4. 2014/30/EU
  5. 2012/19/EU
  6. 2011/65/EU
  7. EN 55032 Class A
  8. EN 55032 Class B
  9. EN 55024
  10. FCC Part 15 - Subpart B Class A
  11. FCC Part 15 - Subpart B Class B
  12. FCC Part 15 - Subpart B Class A + B
  13. ICES-003 Class A
  14. ICES-003 Class B
- C. The specified unit shall meet the following product safety standards:
1. IEC/EN/UL 60950-1
- D. The specified unit shall meet the following standards
1. Audio:
    - a. G.711
    - b. G.729
    - c. G.722 (wideband)
    - d. L16 / 16kHz (wideband)
  2. Video:
    - a. H.263+
    - b. H.263
    - c. H.264 (MPEG-4 AVC)
    - d. MPEG-4 Part 2
    - e. MJPEG
  3. Networking:
    - a. IEEE 802.3af/802.3at (Power over Ethernet) [applies to products with PoE]
    - b. IEEE 802.1X (Authentication)
    - c. IPv4 (RFC 791)

- d. QoS
- 4. Mechanical Environment:
  - a. IEC/EN 60529 IP54
  - b. IEC/EN 62262 IK08

#### 1.4 QUALITY ASSURANCE

##### A. Contractor Qualifications:

1. The system installer shall be the authorized representative of the manufacturer to sell, install, and service the proposed manufacturer's equipment. The system installer shall have represented the security alarm manufacturer's product for a minimum of five (5) years' with experience installing and servicing systems of similar scope and complexity and evidence that is completed at least three (3) projects of similar design and is currently engaged in the installation and maintenance of systems herein described.
2. The system installer shall be licensed as required, by the State in which the project is located in, as a security services contractor to design, sell, install, and service security alarm systems.
3. The system installer shall provide 24-hour, 365 days per year emergency service with factory trained service technicians.
4. The installing firm shall have personnel on their staff that has been actively engaged in the business of designing, selling, installing, and servicing security systems for at least ten (10) years.
5. The proposing contractor for this system and the installing contractor of this system shall be of the same organization. Absolutely no subcontracting of any portion of this system by the proposing contractor will be allowed.
6. The proposing/installing contractor of this system must be an authorized dealer / integrator for the project's specified Access Control, Video Surveillance and the Intrusion Detection systems as well as the system specified in this section.
7. Contractor must be a current integrator of solution in the closest major metropolitan area marketplace, have a permanent office located within 75-miles of the project, and be able to include information on current support staff to be able to service this client.
8. All installation, configuration, setup, program and related work shall be performed by electronic technicians thoroughly trained by the manufacturer in the installation and service of the equipment provided.
9. The system installer shall submit credentials of completed manufacturer certification, verified by a third-party organization, as proof of the knowledge.
10. The Contractor shall provide four (4) current references from clients with systems of similar scope and complexity that became operational in the past three (3) years. At least three (3) of the references shall be utilizing the same system components, in a similar configuration as the proposed system
11. Contractor must be in good standing with the Owner and have no outstanding performance or warranty items at the time of bid. Any outstanding items or issues is grounds to disqualify the Contractor for performing any work on the project.

##### B. System Qualifications:

1. The specified unit shall be manufactured in accordance with ISO9001.

#### 1.5 SUBMITTALS AND CLOSE-OUT

##### A. Product Data:

1. Within fourteen (14) days of Notice to Proceed, the system installer shall furnish



the following in a single consolidated submittal:

- a. Permits: The Contractor shall obtain all required permits and provide copies to the Owner / Architect / Engineer.
  - b. Product Literature: Complete manufacturer's product literature for all system equipment, power supplies, cable, termination components, cable supports, cable labels, field devices, and other products to be used in the installation. In addition, whenever substitutions for recommended products are made, samples (when requested by the Owner/Designer) and the manufacturer's supporting documentation, demonstrating compatibility with other related products shall be included. The submittal shall have some type of distinguishing marker or pointer to indicated what specific product is to be submitted.
  - c. Construction Schedule: A time-scaled Construction Schedule indicating general project deadlines and specific dates relating to the installation of the cable distribution system.
  - d. Specification Compliance: A letter shall be provided stating, by section and subsection, that the system installer complies with the ENTIRE specification section. If the installer intends to deviate from any portion of the specifications, a detailed explanation of reason in which the installer would like to deviate shall be provided in addition to the specification compliance letter. No deviations shall be acceptable until they have been accepted by the project's technology consultant.
  - e. Certifications: The contractor shall submit all of the following certifications and the certifications must contain dates which are valid from the date of proposal and not expirer any sooner than 12 months after substantial completion of the project.
    - 1) Manufacturer's Authorized Dealer/Installer Certification: This certification must be held by the proposing/installing contractor and state that the proposing/installing contractor is and authorized dealer/installer of the system specified within the project specifications. The certification must have been obtained by the office that is within a 75-mile radius of the project's location.
    - 2) Installer Certification: This certification must be held by at least 25% of the, on-site, staff and be made available at the site if requested by the owner, architect, and/or project's technology consultant.
    - 3) Licenses: This includes all licenses required by the state in which the work is being performed, the federal government, local authorities having jurisdiction, and any organization in that governs the specific system
- B. Shop Drawings:
1. Submit the following items, for Owner review and approval, within twenty-eight (28) days of notice to proceed:
    - a. Proposed circuit routing and circuit grouping plan prepared by a system registered designer. The designer's certification must be current. Identifiable, separate routing shall be shown for both the station cabling and any backbone trunk cabling.
    - b. In addition to the cable routing, the submitted drawings shall indicate the following, even if the following is expected to be provided by the project's electrical or general contractor:

- 1) Location of all control equipment and remote power sources
  - 2) Locations of all field devices and outlets
  - 3) Location of wall penetrations (all penetrations shall be sleeved and contain protective bushings at both ends)
  - 4) Location of sleeved wall and/or floor pass-thru
  - 5) Size of sleeve at each location installed
  - 6) Quantity of cable passing through each sleeve
  - 7) Conduit routing, size, quantity, and stub-up locations for any floor mounted outlets or outlets installed in casework.
- c. Drawing Compliance: A letter shall be provided stating that the system installer complies with the entire project drawing, including all general, keyed, and notes to contractor. If the installer intends to deviate from any portion of the specifications, a detailed explanation of reason in which the installer would like to deviate shall be provided in addition to the specification compliance letter. No deviations shall be acceptable until they have been approved by the project's technology consultant.
- C. Close-out Procedures: For review and acceptance, furnish an electronic copy of the following documents to the Architect / Engineer. Upon acceptance of the submitted close-out documents, provide four (4) copies on an electronic storage media (CD or USD Flash Drive) Labeled with the project name, date of submission, and the name of the submitting firm. Final copies shall be delivered directly to the project's Technology Consultant. The closeout submittals shall include the following and be packaged in a storable container with the physical storage media and any physical items listed:
1. Inspection and Test Reports: During the course of the Project, the Contractor shall maintain an adequate inspection system to ensure that the materials supplied, and the work performed, conform to contract requirements. The Contractor shall provide written documentation that indicates that materials acceptance testing was conducted as specified. The Contractor shall also provide documentation, which indicates that all cable termination testing was completed and that all irregularities were corrected prior to job completion.
  2. Provide complete test reports for all cabling and devices that comprise system as outlined in this document.
  3. Include the Name, address and telephone of the authorized factory representative with a 24-hour emergency service number.
  4. The manual shall also include Manufacturer's data sheets and installation manuals/instructions for all equipment installed and a list of recommended spare parts.
  5. Generic or typical owner's instruction and operation manual shall not be acceptable to fulfil this requirement.
  6. An up-to-date record ("as-built") set of approved shop drawing prints that have been revised to show each and every change made to the system from the original approved shop drawings.
  7. As-built Drawings shall include cable pathways; device locations with correct labeling, control equipment locations, remote power supply locations, cross connect locations, and lightning protection locations. The as-built drawings shall be prepared using AutoCAD 2014 or later.
  8. All drawings must reflect point to point wiring, device address and programmed characteristics as verified in the presence of the engineer and/or the end user unless device addressing is electronically generated, and automatically graphically self-documented by the system.
  9. A copy of the manufacturer's warranty on the installed system.

10. Any keys to cabinets and/or equipment and special maintenance tools required to repair, maintain, or service the system.
11. Operating and Maintenance Instructions for all devices within the system. These instructions shall reflect any changes made during the course of construction, and shall be provided to the Owner, for their use, in a three-ring binder labelled with the project name and description. (4 copies)
12. Upon completion of the work and at a time designated by the Architect or owner, provide formal training sessions for the Owner's operating personnel to include location, operation, and maintenance of all included systems and equipment. Provide a video copy of the training session as well as all sign in and training sign off sheets
13. One (1) 30" x 42" laminated floor plan sheets illustrating device locations, system wiring configuration, and cable designation. Contractor shall provide one complete floor plan sheet at each panel location.

## **1.6 WARRANTY**

- A. All security system components and labor furnished by the contractor including wiring, software, hardware and custom parts shall be fully warranted for parts, materials, labor and travel expenses for a minimum of three (3) years start from the date of substantial completion.
- B. The manufacturer shall provide warranty and optional extended warranty for the unit for a total period of maximum five years. If enacted as part of the contract, the contractor will repair or replace parts and/or labor per the warranty for the length of this warranty at no cost to the client.

## **PART 2 - PRODUCTS**

### **2.1 GENERAL**

- A. Intercoms shall be IP-based and comply with established network and video standards.
- B. Intercoms shall be powered by the switch utilizing the network cable.
- C. Intercoms shall be fully supported by an open and published API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third party applications.

### **2.2 INTERCOM SCHEDULE**

- A. Intercom types listed below describing various resolutions, form-factor and features shall be supplied by a single intercom manufacturer.
- B. The intercom manufacture and model numbers will be as follows:
  1. Modular IP intercom shall be 2N IP Verso with camera. Part # 02907-001
  2. IP intercom base station shall be 2N Indoor View. Part # 02088-001
    - a. 2N Base station stand required. Part # 02039-001
  3. 2N Combo Reader Module. Part # 016939-001
  4. 2N Secure Door Set Tamper. Part # 01975-001
  5. 2N Weigand Module. Part # 01259-001
  6. 2N Surface frame plate. Part # 01289-001
  7. 2N Surface back plate. Part # 01294-001

### **2.3 INTERCOM**

- A. Modular IP intercom
  1. The intercom shall meet or exceed the following design specifications:
    - a. Intercom shall include a built-in web server.
    - b. Intercom shall be able to perform defined local access control

- functionality without being connected to the network.
- c. Intercom shall be of modular design, include a replaceable front-end frame, providing 1 or 2 additional slots for functional modules, and should support multiple frames stacked side by side. The intercom shall support at least 29 functional modules when fully expanded.
  - d. Intercoms' main unit shall be available with and without camera, and shall support the following functional modules:
    - 1) ID card reader
    - 2) Fingerprint reader
    - 3) Keypad
    - 4) Button module
    - 5) Touch screen
    - 6) Bluetooth
    - 7) Wiegand interface
  - e. The intercom shall be equipped with an IR-sensitive progressive scan megapixel sensor and be able to provide images also under dark conditions.
  - f. The intercom shall be equipped with built-in power adaptive IR-illumination/LED.
  - g. The camera shall provide an automatic IR-cut filter, providing day/night functionality.
2. The intercom shall meet or exceed the following performance specifications:
- a. Video
    - 1) The intercom shall provide video streams in 640x480 at up to 30 frames per second using H.264, H.263, H.263+ or up to 15 frames per second using MJPEG.
    - 2) The intercom camera shall provide images in resolutions up to 1280x960.
    - 3) The intercom shall support the following video encoding algorithms:
      - a) H.263+
      - b) H.263
      - c) H.264
      - d) MPEG-4 Part 2
      - e) MJPEG
    - 4) The intercom shall provide independently configured simultaneous H.264 and MJPEG streams.
    - 5) The intercom shall in H.263, H.263, H.264 support Constant Bit Rate (CBR) to protect the network from unexpected bit rate peaks.
    - 6) The intercom shall provide configurable compression levels.
    - 7) Support standard baseline profile H.264 with motion estimation.
    - 8) Support motion estimation in H.264/MPEG-4 Part 10/AVC.
    - 9) The intercom shall allow for video to be transported over:
      - a) HTTP (Unicast)
      - b) HTTPS (Unicast)
      - c) RTP (Unicast & Multicast)
      - d) RTP over RTSP (Unicast)
      - e) RTP over RTSP over HTTP (Unicast)
    - 10) The intercom shall support Quality of Service (QoS) to be able to prioritize traffic.

- b. Image
  - 1) The camera shall incorporate automatic white balance.
  - 2) The camera shall support manually defined values for:
    - a) Color level
    - b) Brightness
- c. Audio
  - 1) The intercom shall support two-way full duplex audio:
    - a) Input sources
      - (1) Internal microphone
    - b) Output sources
      - (1) Built-in speaker, 2W
      - (2) Line out
  - 2) The intercom shall support separately adjustable volume levels for:
    - a) Call
    - b) Key
    - c) Ring tones
    - d) Preloaded audio clips
    - e) Warning tones
    - f) Paging
  - 3) The intercom shall support adaptive gain control.
  - 4) Encoding
    - a) The intercom shall support:
      - (1) G.711
      - (2) G.722 (wideband)
      - (3) G.729
      - (4) L16 / 16kHz (wideband)
  - 5) The intercom shall provide a sound pressure level of at least 78dB at 1kHz at 1m.
  - 6) The intercom shall be equipped with active echo cancellation.
  - 7) The intercom shall allow for audio to be transported over:
    - a) RTP (Unicast & Multicast)
    - b) RTP over RTSP (Unicast)
    - c) RTP over RTSP over HTTP (Unicast)
  - 8) The intercom shall support Quality of Service (QoS) to be able to prioritize traffic.
- d. Call functionality
  - 1) The intercom shall support SIP for integration with VoIP, peer-to-peer or integrated into SIP/PBX.
  - 2) The intercom shall support the use of SIP Proxy, which can be the same as the SIP registrar for outgoing calls.
  - 3) The intercom shall support dialing up to twelve separate numbers in sequence or as ring group.
- e. Access control functionality
  - 1) The intercoms' reader outputs shall be wired through the Weigand module to the existing access control system.
- f. User Interface
  - 1) Web server
    - a) The intercom shall contain a built-in web server making functionality and configuration available to multiple clients in a standard operating system and browser

- environment using HTTP, without the need for additional software.
- 2) IP addresses
    - a) The intercom shall be set with dynamically assigned IP addresses provided by a Dynamic Host Control Protocol (DHCP) server.
    - b) The intercom shall allow for automatic detection of the intercom based on WS Discovery when using a computer with an operating system supporting this feature.
    - c) The intercom shall provide support for IPv4.
  - g. Event functionality
    - 1) The intercom shall be equipped with an integrated event functionality, which can be triggered by:
      - a) Tamper / case open
      - b) SIP Call state incl. incoming call
      - c) Change of SIP registration status
      - d) Video Motion Detection
      - e) Noise Detection
      - f) SIP DTMF sequences
      - g) External input
      - h) Access control events such as code, card, fingerprint entered
      - i. Predefined time
    - 2) Response to triggers shall include:
      - a) Send notification, using HTTP or email
      - b) Activate sound alarm
      - c) Make or end call
      - d) Send notification, using HTTP, HTTPS, Wiegand or email
      - e) Send images, using FTP or email
      - f) Activating external output
      - g) Play audio clip
  - h. Protocol
    - 1) The intercom shall incorporate support for at least HTTP, HTTPS, SIP 2.0, TFTP, RTSP, RTP, SMTP, DHCP opt 66, NTP, Syslog.
    - 2) The SMTP implementation shall include support for SMTP authentication.
    - 3) The camera shall incorporate support for at least IPv4, HTTP, HTTPS, SIP, SSL/TLS, QoS Layer 3 DiffServ, TCP, ICMP, SNMPv2c, RTSP, RTP, UDP, IGMP, RTCP, SMTP, FTP, DHCP, ARP, DNS, NTP,
  - i. Security
    - 1) The intercom shall support the use of HTTPS and SSL/TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams.
    - 2) The intercom shall block its login page for 30 seconds after three faulty passwords have been submitted.
    - 3) The intercom shall force user to change admin password upon

- first installation.
- 4) The intercom shall provide centralized certificate management, with the ability to upload CA certificates. The certificates shall be signed by an organization providing digital trust services.
- 5) The intercom shall support IEEE 802.1X authentication.
- 6) Selected services, such as RTSP or web config shall be configurable to only allow access from local devices.
- 7) The intercom shall restrict access to the built-in web server by username and password.
- 8) The intercom shall be equipped with tamper detection.
- j. API support:
  - 1) The intercom shall be fully supported by an open and published API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third party applications.
  - 2) The intercom shall conform to ONVIF profile S as defined by the ONVIF Organization.
    - a) For ONVIF profile specifications, see [www.onvif.org/](http://www.onvif.org/)
  - 3) The intercom shall be interoperable/certified with major PBX and gateway manufacturers, including:
    - a) Cisco
    - b) Avaya
    - c) Broadsoft
- k. Installation and maintenance
  - 1) The intercom shall support secure configuration using HTTPS.
  - 2) The intercom shall support the use of SNMP-based management tools according to SNMP v2c.
  - 3) The intercom shall allow updates of the software (firmware) over the network, using TFTP, HTTP or web interface.
  - 4) The intercom shall be time synchronized to the district NTP (Network Time Protocol) server.
  - 5) The intercom shall support back-up and restore of configuration.
  - 6) The intercom shall store all customer-specific settings in a non-volatile memory that shall not be lost during power cuts or soft reset.
- l. Access log
  - 1) The intercom shall be able to log events such as codes, phone calls, RFID cards etc., and provide them using HTTP interface for monitoring.
  - 2) The administrator shall be able to set whether the particular messages are sent by the intercom immediately after any event occurs, or if the client registers for event logging and then asks for full report since last registration, all events at once.
  - 3) The client shall be able to select which messages are reported from event log.
- m. Intercom diagnostics
  - 1) The intercom shall be equipped with LEDs, capable of providing visible status information. LEDs shall indicate the intercom's operational status and provide information about power, the network status and the intercom status.
  - 2) The intercom shall be monitored by a Watchdog functionality,

which shall automatically re-initiate processes or restart the unit if a malfunction is detected.

- n. Hardware interfaces
  - 1) Network interface
    - a) The intercom shall be equipped with one 10BASE-T/100BASE-TX Fast Ethernet-port, using a standard RJ45 connector and shall support auto negotiation of network speed (100 MBit/s and 10 MBit/s) and transfer mode (full and half duplex).
  - 2) Doors
    - a) The intercom shall be equipped with programmable input supporting both short circuit activation or up to +30VDC for door monitor or Request to Exit (REX).
    - b) The intercom shall be equipped with two independent outputs for door control. One active providing at least 8VDC / 400mA and one NO/NC relay supporting up to 30V AC/DC 1A.
  - 3) Audio
    - a) The intercom shall be equipped with line output.
  - 4) Power
    - a) The intercom shall be equipped with a removable terminal block providing connectivity for external power.
  - 5) Multifunctional connector
    - a) The camera shall, by using a “multi wire ribbon cable”, provide connectivity between main unit and modules.
- o. Enclosure
  - 1) The intercom shall:
    - a) Be manufactured with IP54 rated housing, and be IK08 (IK07 when using Touchscreen module).
    - b) Be fitted with a tamper switch.
    - c) Be of modular design, supporting main unit and up to 29 additional modules.
    - d) Be available in black and brushed nickel versions.
- p. Power
  - 1) Power over Ethernet IEEE 802.3af/802.3at Type 1 Class 0
  - 2) 12 V DC
    - a) Max: 2A
- q. Environmental
  - 1) The intercom shall:
    - a) Operate in a temperature range of -40 °C to +60 °C (-40 °F to 140 °F)
    - b) Operate in a humidity range of 10–95% RH (non-condensing).

### **PART 3 - EXECUTION**

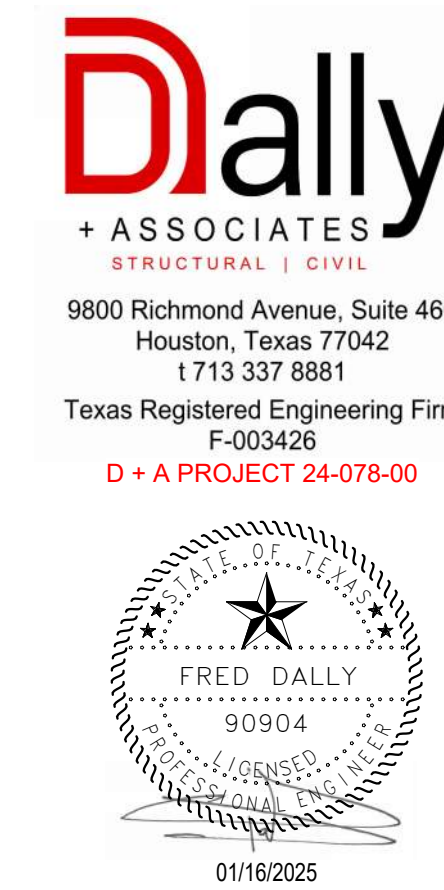
#### **3.1 INSTALLATION**

- A. The Contractor shall carefully follow instructions in documentation provided by the manufacturer to ensure all steps have been taken to provide a reliable, easy-to-operate complete system.
- B. All equipment shall be configured in accordance with instructions provided by the



- manufacturer and systems administrator prior to district inspection.
- C. All firmware found in products shall be the latest and most up-to-date provided by the manufacturer.
  - D. The contractor shall provide a 2N Indoor Touch 2.0 master station at the primary operator's desk with its appropriate stand.
  - E. Contractor is responsible for working with other trades to ensure proper installation of all devices per recommended codes.
  - F. All equipment requiring users to log on using a password shall be configured with district specific password. No system/product default passwords shall be allowed.

**END OF SECTION**

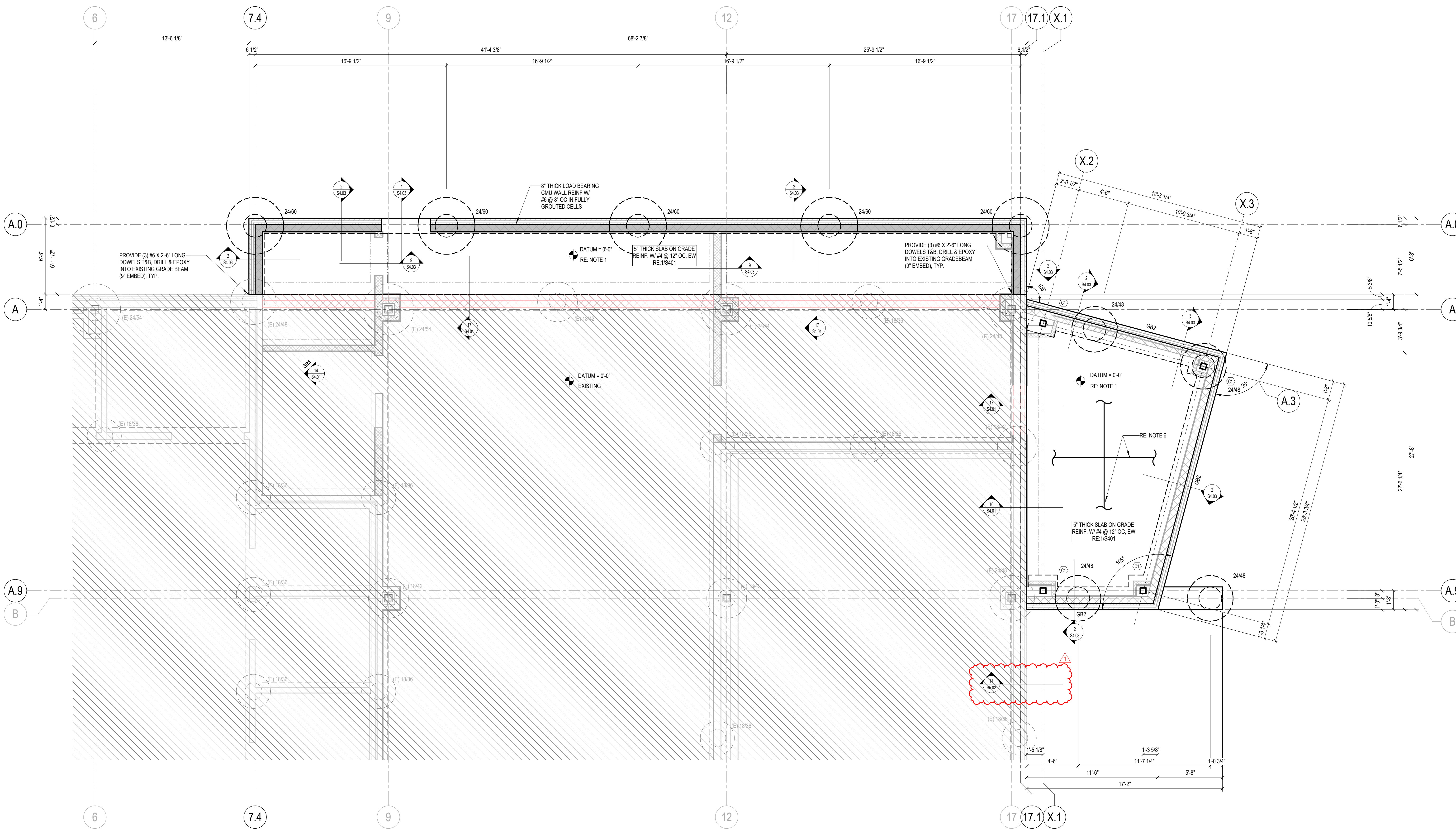


CONSTRUCTION DOCUMENT

CIVIL ENGINEER BROOKS AND SPARKS, INC. 21020 PARK ROW KATY, TX 77449 tel: 281.578.9595

STRUCTURAL ENGINEER DALLY + ASSOCIATES, INC. 9800 RICHMOND AVE. SUITE 400 HOUSTON, TX 77042 tel: 713.337.8881

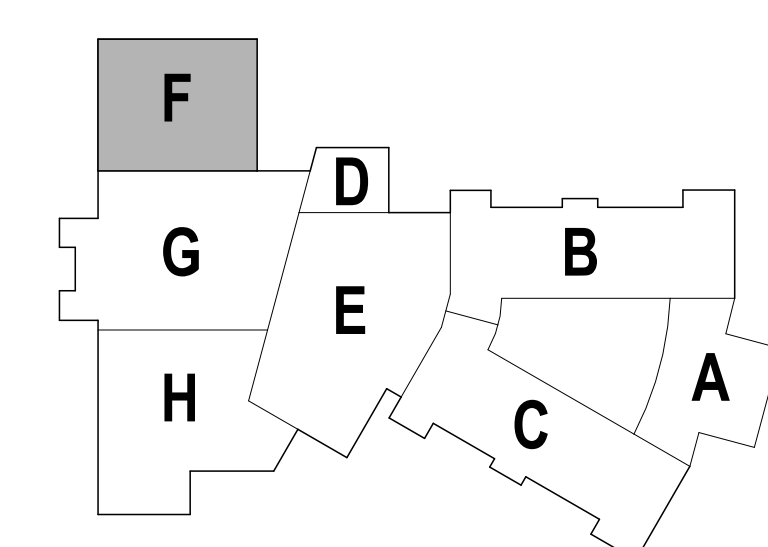
MEPT ENGINEER SALAS O'BRIEN 10930 W. SAM HOUSTON PKWY. N. SUITE 900 HOUSTON, TX 77064 tel: 281.864.1900



- FOUNDATION NOTES:
1. DATUM ELEVATION -0'-0" CORRESPONDS TO TRUE ELEVATION = RE: CIVIL. ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION -0'-0".
2. 18/36" (EXAMPLE) INDICATES DRILLED PIER SHAFT AND BELL SIZE. ALL INTERIOR DRILLED PIERS ARE AT ELEVATION -2'-8" TYP. UON. ALL EXTERIOR DRILLED PIERS ARE AT ELEVATION -2'-8" TYP. UON. ALL INTERMEDIATE PIERS ARE CENTERED BETWEEN GRID ON THE GRADE BEAM, TYP. UON. FOR DRILLED PIER SCHEDULE & DETAILS RE: 11 & 13.01.
3. P1" (EXAMPLE) INDICATES PLINTH TYPE. ALL INTERIOR PLINTHS ARE TYPE "P1" UON. ALL PERIMETER PLINTHS ARE TYPE "P2" UON. ALL CORNER PLINTHS ARE TYPE "P3" UON. T.O. PLINTHS ARE AT -0'-0" TYP. UON. FOR PLINTH SCHEDULE & DETAILS RE: 21 & 33.01.
4. GB1" (EXAMPLE) INDICATES GRADE BEAM TYPE. ALL GRADE BEAMS ARE TYPE "GB1" TYP. UON. ALL GRADE BEAMS ARE AT ELEVATION -4'-8". PROVIDE TYPICAL CORNER BARS AT ALL GRADE BEAM INTERSECTIONS PER 154.02 FOR GRADE BEAM SCHEDULE & DETAILS RE: 41 & 53.01.
5. C1" (EXAMPLE) INDICATES COLUMN SIZE.
6. PROVIDE CONTROL JOINTS AT EVERY COLUMN LINE AND AT A MAXIMUM SPACING OF 36 TIMES THE SLAB THICKNESS (NOT TO EXCEED 19'-7"), TYPICAL UON. FOR ADDITIONAL INFORMATION RE: 31 & 55.01.
7. TYPICAL LIGHT POLE FOUNDATION DETAIL RE: 11 & 54.01.
8. VERIFY ALL SLOPES, DEPRESSIONS, ELEVATIONS WITH ARCH. PRIOR TO CONSTRUCTION.
9. CONCRETE CURBS NOT SHOWN FOR CLARITY. G.C. TO PROVIDE CONCRETE CURB AS DESIGNATED IN ARCHITECTURAL DRAWINGS. FOR TYPICAL CONCRETE CURB DETAIL RE: 13 & 17 & 54.01.
10. ALL CMU WALL LOCATIONS ARE FOR REFERENCE ONLY. G.C. TO COORDINATE FINAL CMU WALL LOCATIONS WITH ARCHITECTURAL DRAWINGS FOR SLAB THICKENINGS AND GRADE BEAM DETAILS AT CMU WALLS RE: 7, 8 & 10 & 54.01.
11. G.C. TO PROVIDE A HOUSEKEEPING PAD UNDER ALL MECHANICAL UNITS. FOR TYPICAL HOUSEKEEPING PAD DETAIL RE: 10 & 54.01.

1 FOUNDATION PLAN - ORCHESTRA ADDITION - AREA F
1/4" = 1'-0"

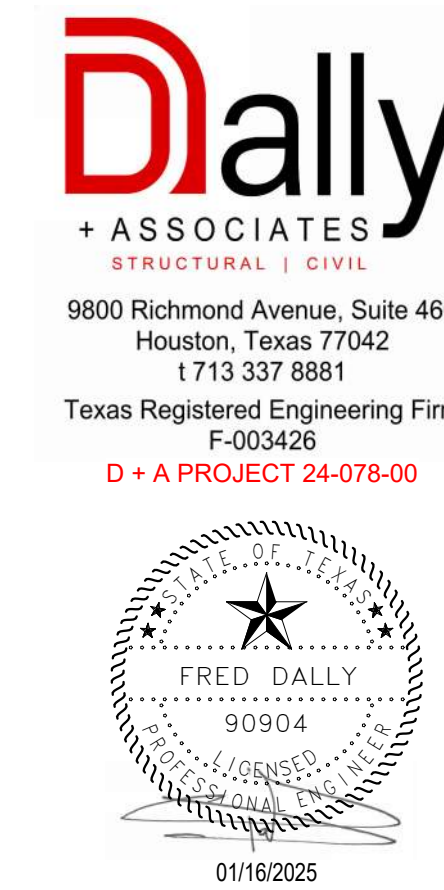
KEY PLAN:



2024 ANTHONY, HOPPER & KAHLA RENOVATIONS
ANTHONY MIDDLE SCHOOL
10215 Greenhouse Rd., Cypress TX 77433
CFSID PROJECT NO: 24-02-5750-R-RFP

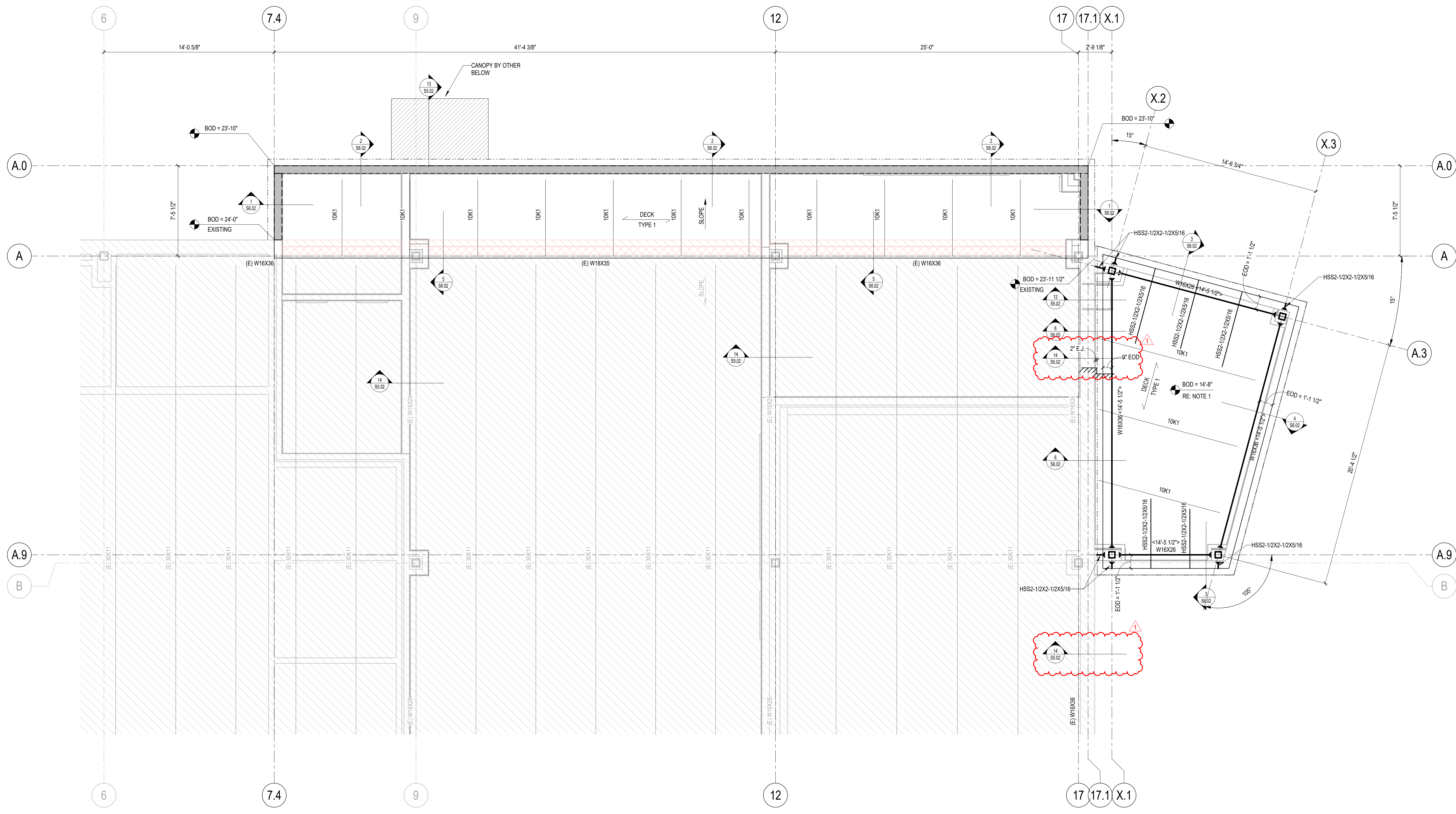
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CONSTRUCTION DOCUMENT

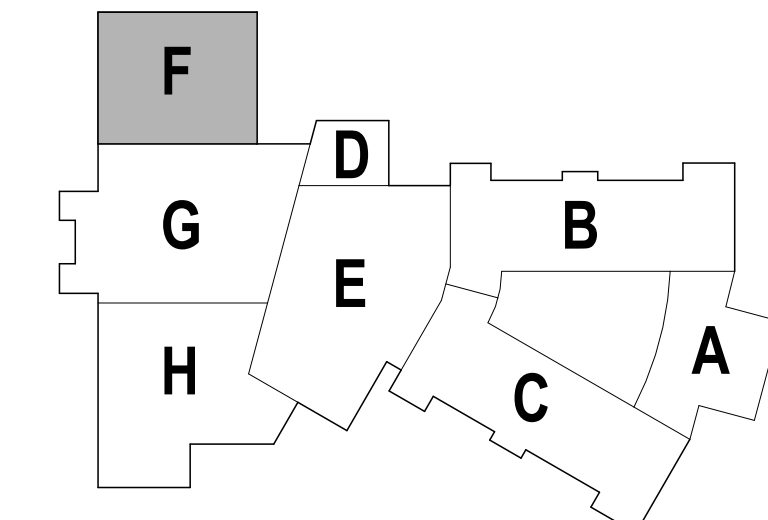
CIVIL ENGINEER BROOKS AND SPARKS, INC.
STRUCTURAL ENGINEER DALLY + ASSOCIATES, INC.
MEPT ENGINEER SALAS O'BRIEN



STEEL ROOF FRAMING NOTES:
1. ALL ELEVATIONS ARE RELATIVE TO DATUM ELEVATION.
2. DECK TYPE 1 (EXAMPLE) INDICATES ROOF DECK SPAN DIRECTION AND DECK TYPE 1.
3. COORDINATE LOCATIONS AND SIZES OF ALL CHASES AND PENETRATIONS WITH MEP.
4. PROVIDE MID-SPAN BEAM BRACING AT ALL BEAMS DENOTED WITH (\*) SIM. TO DETAILS 308.02 & 438.02.

1 ROOF FRAMING PLAN - ORCHESTRA ADDITION - AREA F
1/4" = 1'-0"

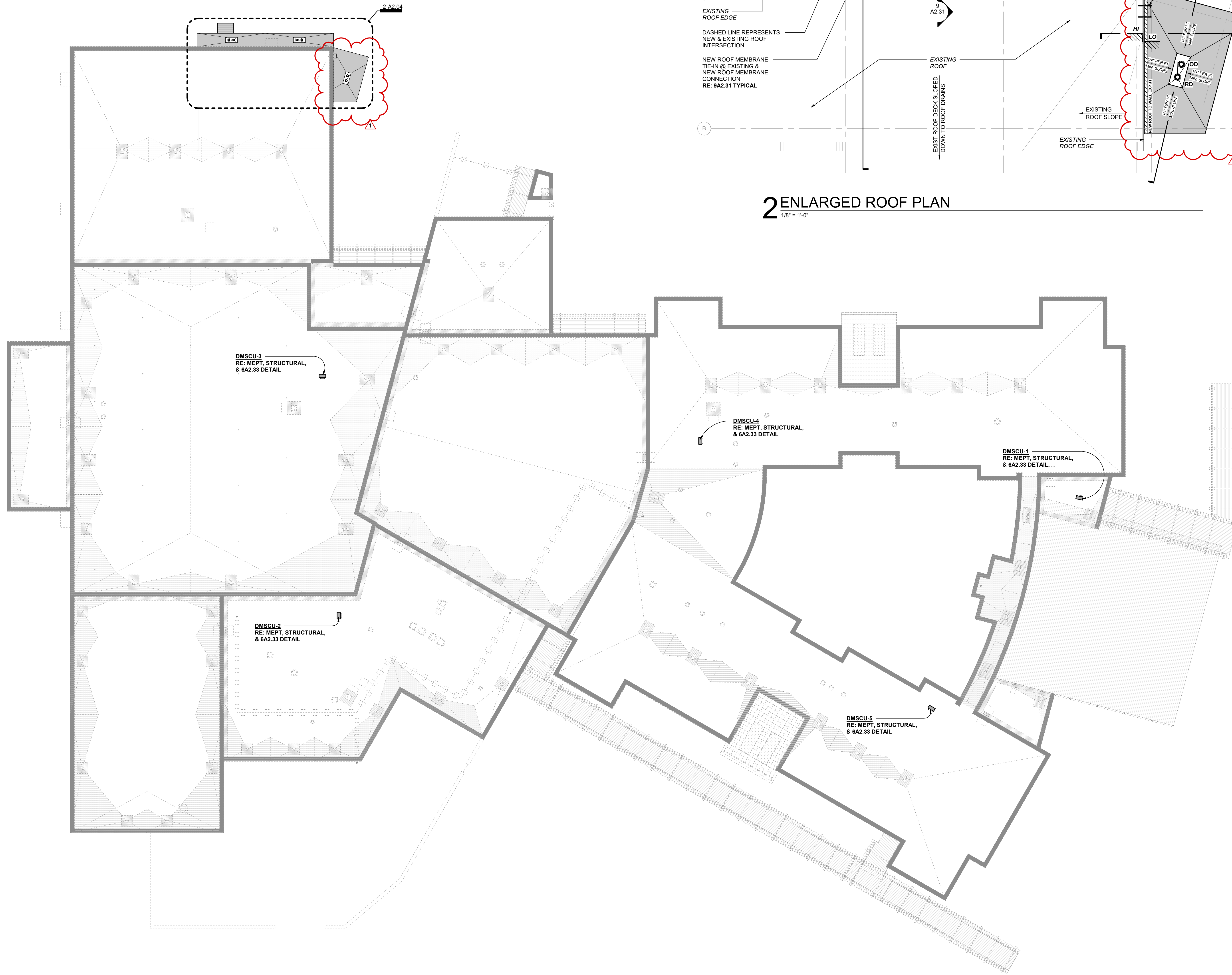
KEY PLAN:



2024 ANTHONY, HOPPER & KAHLA RENOVATIONS
ANTHONY MIDDLE SCHOOL
10215 Greenhouse Rd., Cypress TX 77433
CFISD PROJECT NO: 24-02-5750-R-RFP

Table with project details: Project Number: 23072, Date: 16 JANUARY 2025, Drawn By: JT / MR, ROOF FRAMING PLAN - AREA F, S2.01A





1 OVERALL ROOF PLAN EXISTING & NEW ADDITION  
3/64" = 1'-0"

2 ENLARGED ROOF PLAN  
1/8" = 1'-0"

ROOF PLAN LEGEND	
	ROOF SLOPE
	ROOF DRAIN
	OVERFLOW DRAIN
PATTERN	
	NEW SBS ROOF OVER LWIC DECK
	EXISTING SBS ROOF
	NEW CANOPY OR AWNING
	NEW TO EXISTING ROOF MEMBRANE TIE-IN
	NEW MINI-SPLIT CONDENSING UNIT OVER EACH IDF / MDF ROOM - RE: MECHANICAL

**GENERAL NEW ROOF DESCRIPTION**

**Roof Type:** SBS ROOF MEMBRANE WITH MECHANICALLY FASTENED BASE SHEET OVER LWIC DECK SYSTEM

**Slope:** 1/4" per ft. (MINIMUM ALL ROOF SLOPES)

**Deck Type:** Slotted Galvanized Metal

**Substrate:** Lightweight Insulating Concrete (LWIC)

**Base Sheet:** Parabase Plus, mechanically attached.

**Roof System:** Paradiene 20 TG, torch applied Paradiene 30 FR TG BW, torch applied

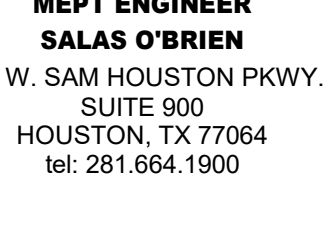
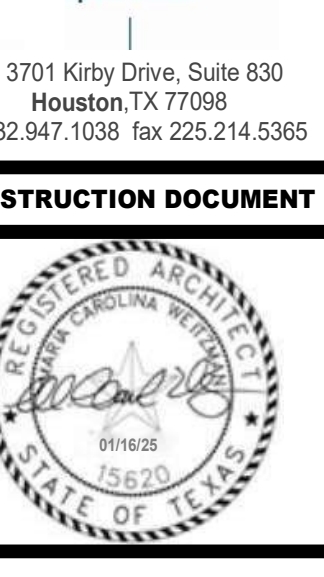
**Flashing System:** Veral Aluminum, metal foil surfaced flashing sheet Paradiene 20 SA, flashing reinforcing & cant backer Parapro 123 Flashing, liquid flashing system

**Thermal Resistance:** Average of R-25 per specifications (8 1/2" maximum thickness LWIC Roof Deck to match existing roof deck @ adjacent roof)

**NOTE:** See roofing specifications for complete description of roof type & materials used on Anthony Middle School Roof

**GENERAL ROOF NOTES & DESCRIPTION**

- NEW & EXISTING ROOF IS MODIFIED BITUMEN ROOFING SYSTEM ON LIGHTWEIGHT INSULATING CONCRETE ON GALV STEEL OR SLOTTED STEEL DECK UNLESS OTHERWISE NOTED.
- REFER TO SHEET A2.32 FOR TYPICAL ROOF LADDER & ROOF ACCESSORY DETAILS (CURBS, SPLASH PANS, HOUSINGS, ETC).
- MEP ITEMS SHOWN ON EXISTING ROOF PLAN ARE FOR ARCHITECTURAL REFERENCE ONLY.
- PROVIDE WALKWAY PROTECTION PADS UNDER ALL NEW LADDERS (TOP & BOT), HVAC EQUIPMENT, AND ROOF HATCHES.
- EQUIPMENT AND ROOF COMPONENTS IN DRAWING ARE FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL ROOF DRAIN, EXHAUST, SUPPLY FAN & ALL EQUIPMENT TO BE REPLACED.
- PROVIDE NEW CURBS, FLASHING, & ROOFING WHERE NEW ROOF EQUIPMENT WILL BE INSTALLED OVER EXISTING ROOF. PATCH & REPAIR ROOF PER MANUFACTURER INSTRUCTIONS & STANDARDS. COORDINATE STRUCTURAL COMPONENTS PRIOR TO REPAIR IF NECESSARY.
- INSTALL NEW ROOF LADDERS AS SHOWN ON ENLARGED NEW ROOF PLANS. GO TO COORDINATE WITH STRUCTURAL ENGINEER FOR ANY DEMO OF EXTERIOR BRICK ON EXISTING EXTERIOR WALL. TO INSTALL NEW STRUCTURAL STEEL HANGERS, MOUNTS & BRACKETS IN ORDER TO HANG NEW LADDER. NEW ROOF LADDERS ON NEW WALLS SHALL BE COORDINATED WITH STRUCTURAL ENGINEER FOR HANGERS, MOUNTS, AND BRACKETS TO SECURE NEW ROOF LADDER TO NEW WALL. GO TO COORDINATE PROPER DEPTH OF WALL MOUNT ANGLES, TO BYPASS ROOF LEVEL EXPANSION JOINTS, DOWNSPILT NOZZLES, ETC. RE: BUILDING SECTIONS & ROOF PLANS
- ALL ROOF SLOPES, INCLUDING CRICKETS & TAPERED LWIC, SHALL BE INSTALLED WITH A MINIMUM OF 1/4" PER FT. SLOPE TO ROOF DRAINS. TYPICAL CRICKET THE UP SLOPE SIDE OF ALL CURBS & SQUARE PROJECTIONS.
- REPLACE ALL SURFACE MOUNTED STAINLESS STEEL FLASHING, PRE-FINISHED FLASHINGS & ASSOCIATED ROOF ACCESSORIES AT ROOF LEVEL AT INTERSECTION OF EXISTING BUILDING AND NEW BUILDING WORK. ALL THRU-WALL FLASHINGS SHALL REMAIN INTACT AT ROOF LEVEL FOR NEW WORK UNLESS OTHERWISE NOTED IN DEMOLITION & ROOF PLAN.
- WHERE EXISTING MECHANICAL EQUIPMENT IS NOTED TO BE REMOVED PATCH AND INFILL EXISTING ROOF WITH SPECIFIED ROOFING SYSTEM. CONTRACTOR SHALL REMOVE ALL EXISTING COMPONENTS COMPLETE AND INFILL ROOF OPENINGS. CONTRACTOR TO VERIFY NEW STRUCTURAL COMPONENTS ARE REQ'D PRIOR TO INFILL OF ROOF DECK.
- CONTRACTOR SHALL FIELD VERIFY TOP OF STEEL THICKNESS OF EXISTING ROOF SYSTEM AND ROOF SLOPE OF EXISTING ROOF WHERE NEW ROOF WILL ABUTT. NEW BUILDING ADDITION ROOF SHALL ALIGN WITH ADJACENT EXISTING ROOF.
- DEPTH OF ROOF METAL EDGE TRIM AND FINISH SHALL MATCH ADJACENT EXISTING.
- FOR INFORMATION REGARDING ANY MEP ITEMS SHOWN FOR REFERENCE ON ROOF PLAN, SEE MEP DRAWINGS AND SPECIFICATIONS.
- REFER TO MANUFACTURER'S PRINTED INSTALLATION DETAILS AND NRC STANDARD DETAILS FOR CONDITIONS NOT FULLY DOCUMENTED ON DRAWINGS AND SPECIFICATIONS.
- ALL WOOD BLOCKING ON ROOF WORK, SHALL BE TREATED AS SPECIFIED.
- REFER TO SHEET A2.31 & A2.32 FOR TYPICAL NEW SPLAST ROOF MEMBRANE DETAILS - ROOF MEMBRANE + LWIC ONLY.
- REFER TO SHEET A2.31 FOR NEW ROOF FLASHING DETAILS AT BUILDING ADDITIONS.
- REFER TO SHEET A8.01 & A8.02 FOR ALL NEW WALL SECTIONS.
- ALL ROOF DRAINS SHALL BE CLEAR & FREE FLOWING BEFORE & AFTER DEMOLITION & CONSTRUCTION.
- EXISTING EDGE BLOCKING AT NEW ROOF WORK ON EXISTING ROOF EDGES, SHALL BE REMOVED & REPLACED AT NEW EDGE FLASHING & NEW EXPANSION JOINTS ABUTTING NEW BUILDING ADDITIONS. ROOF OVERLAY PROJECTS SHALL HAVE ALL ROOF EDGE WOOD BLOCKING REMOVED & REPLACED AT ALL EDGES OF ROOF AFFECTED BY NEW ROOF OVERLAY (CAP SHEET REPLACEMENT).



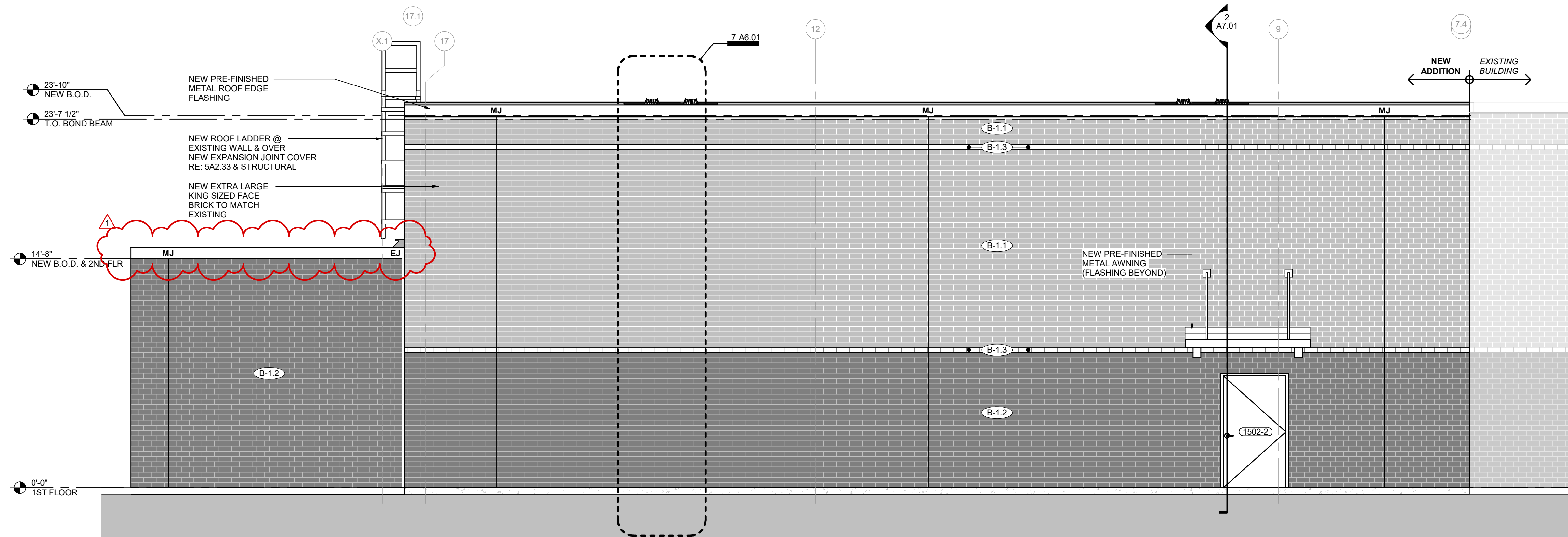
**ANTHONY, HOPPER & KAHLA MS RENOVATIONS**  
**ANTHONY MIDDLE SCHOOL**  
10215 Greenhouse Rd., Cypress TX 77433  
CFISD PROJECT NO: 24-02-5750-R-RFP

Project Number:	23072
Date:	29 DECEMBER 2024
Drawn By:	WHL / KLO

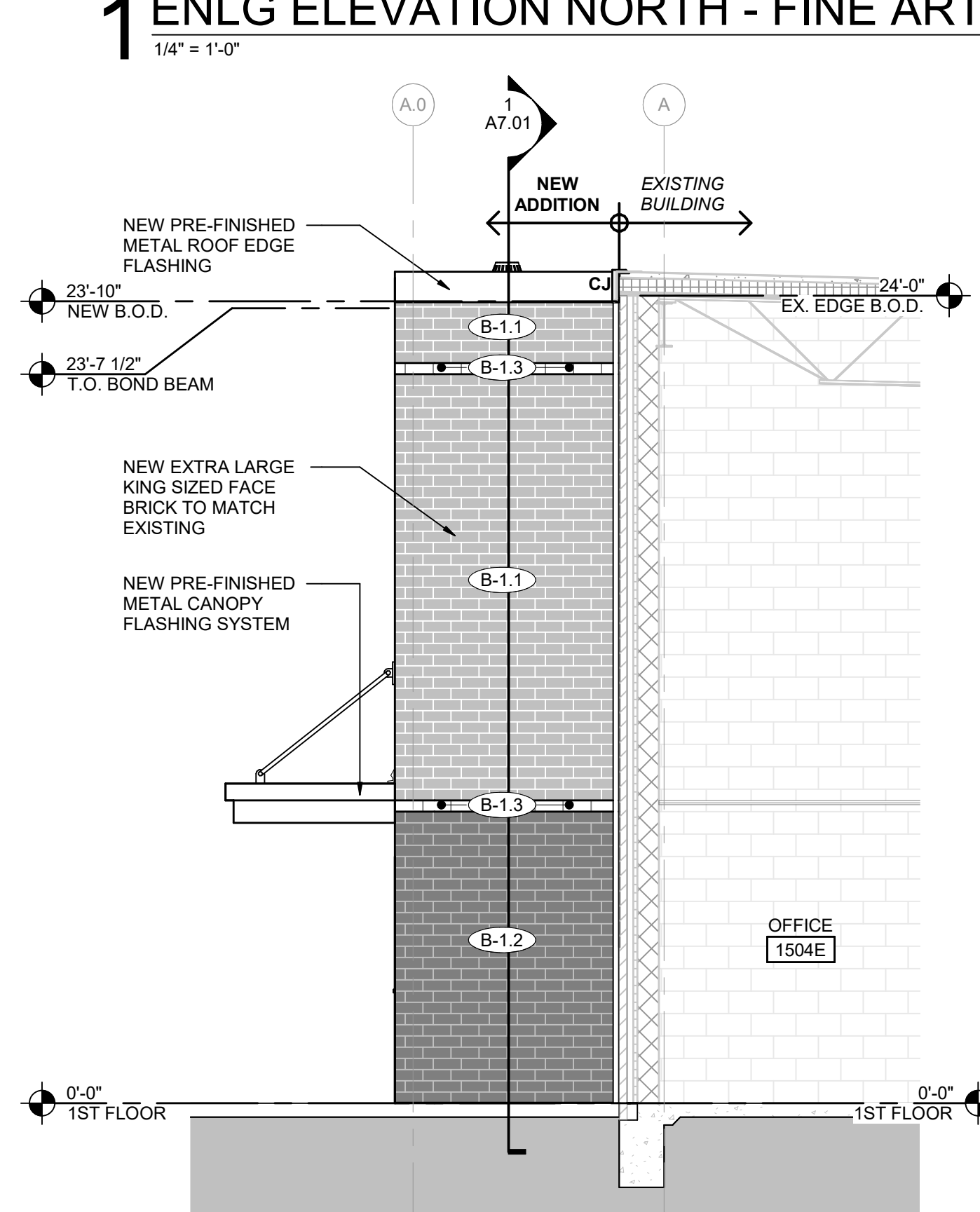
**ROOF PLAN & ENLG ROOF PLAN**

**A2.04**

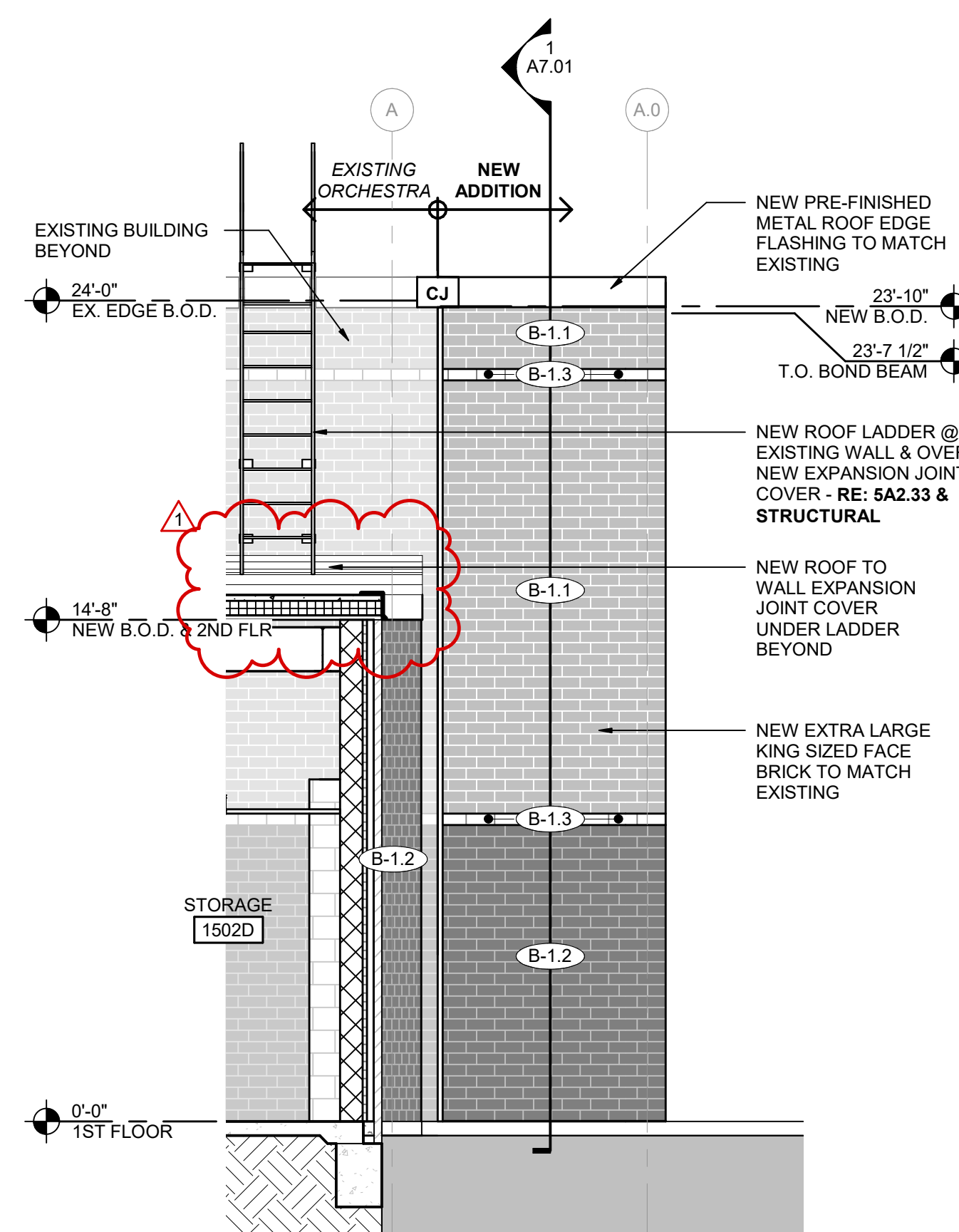




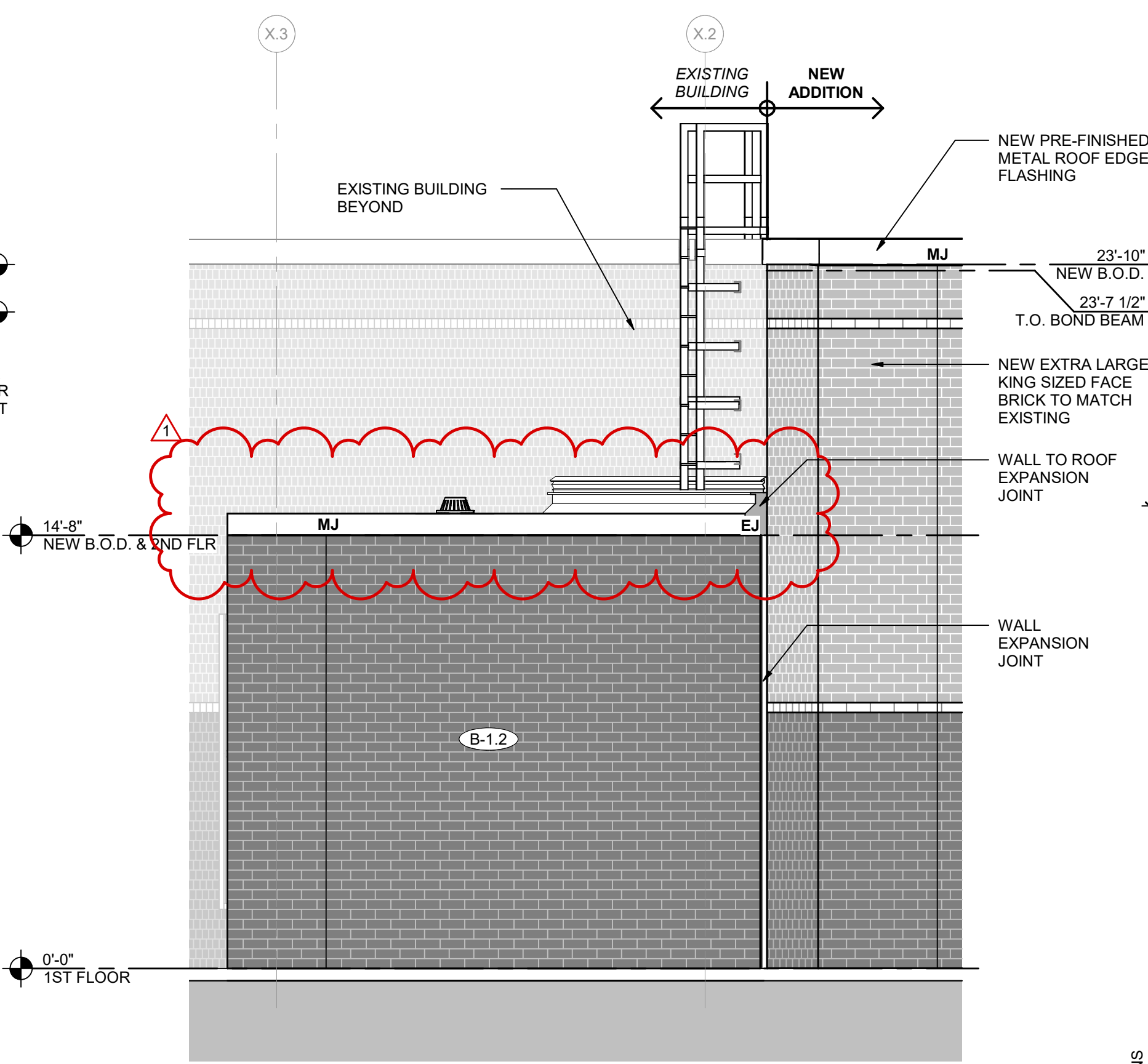
1 ENLG ELEVATION NORTH - FINE ARTS  
1/4" = 1'-0"



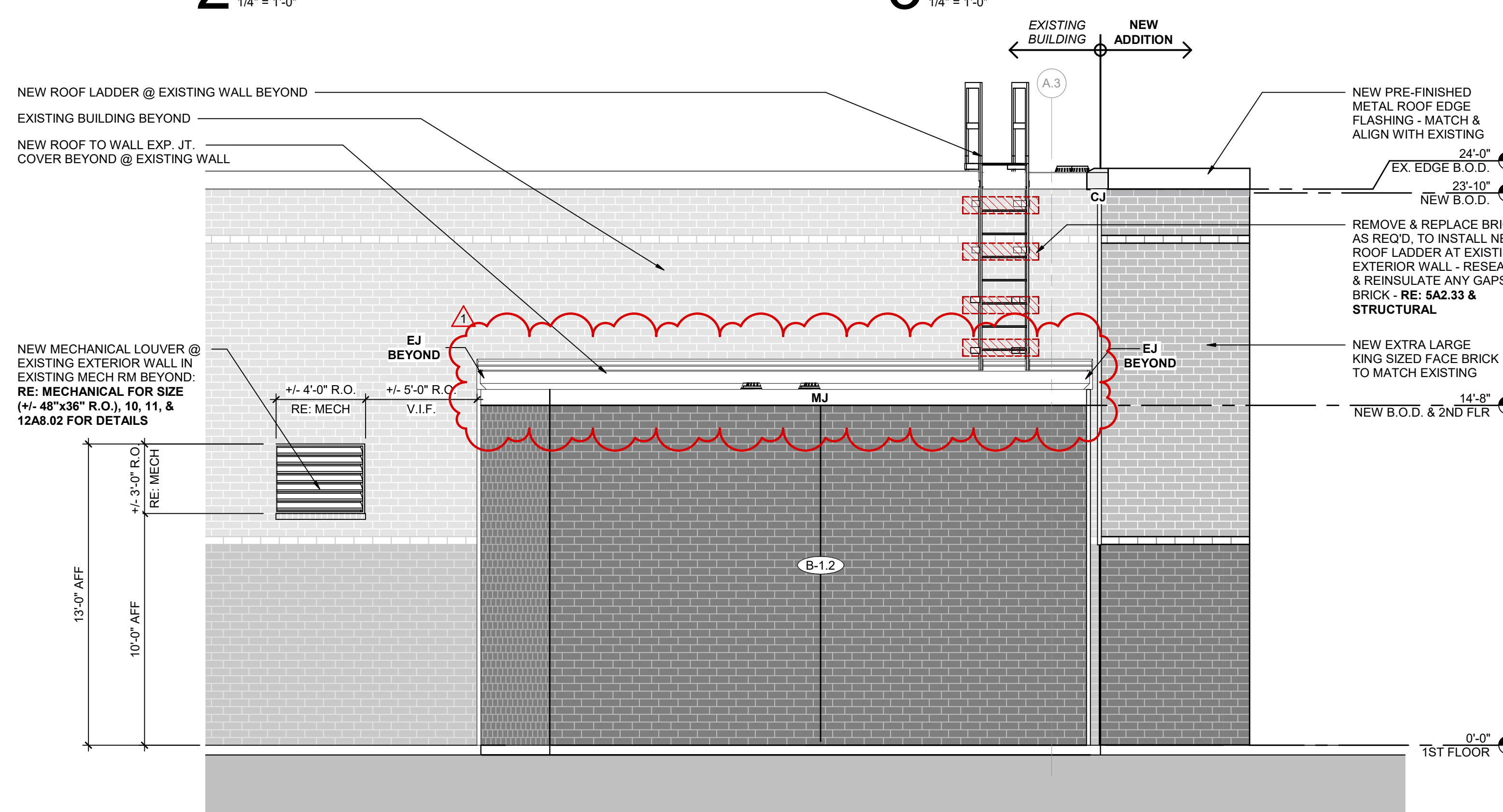
2 ENLG ELEVATION WEST - FINE ARTS  
1/4" = 1'-0"



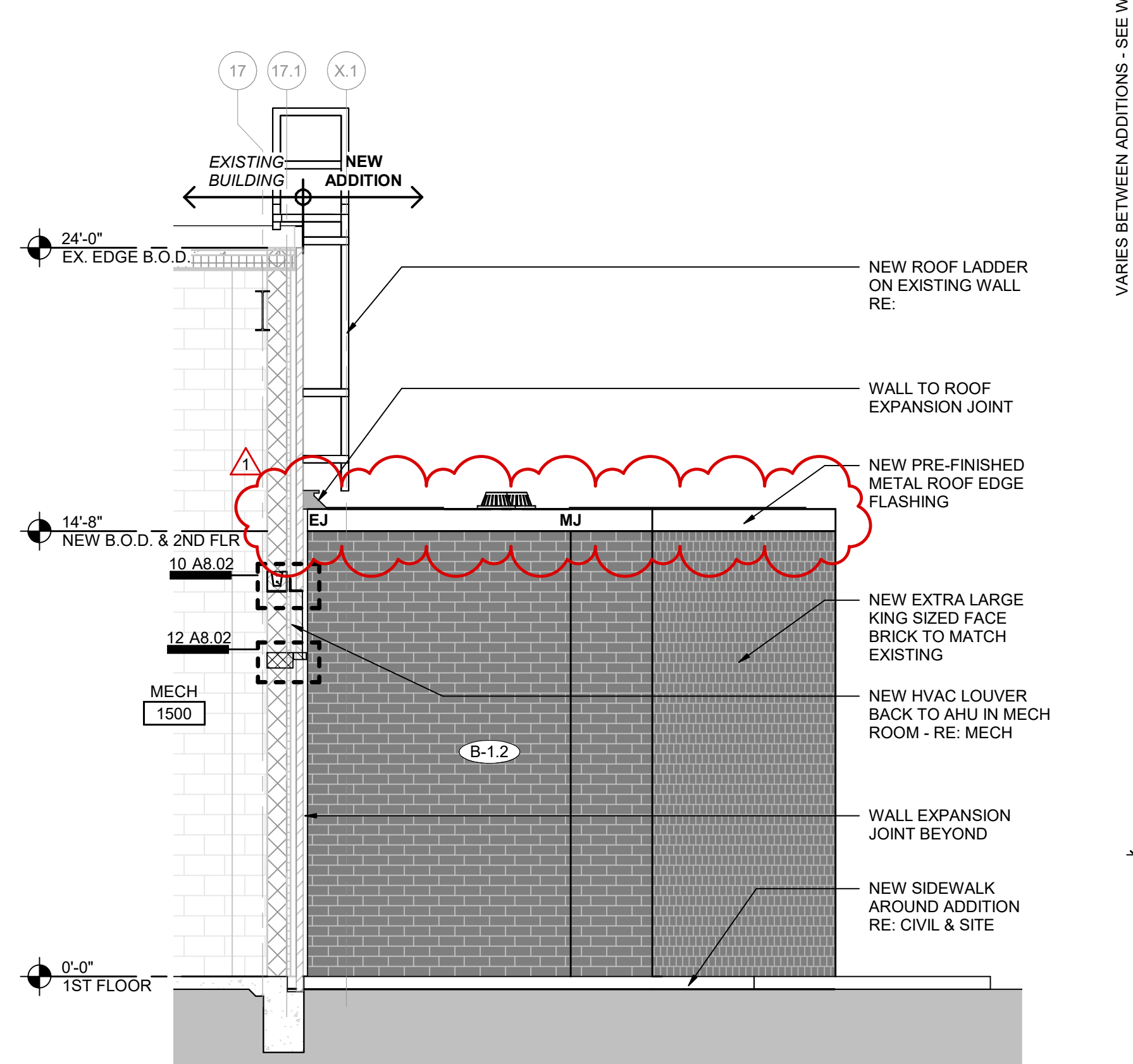
3 ENLG ELEVATION EAST - FINE ARTS  
1/4" = 1'-0"



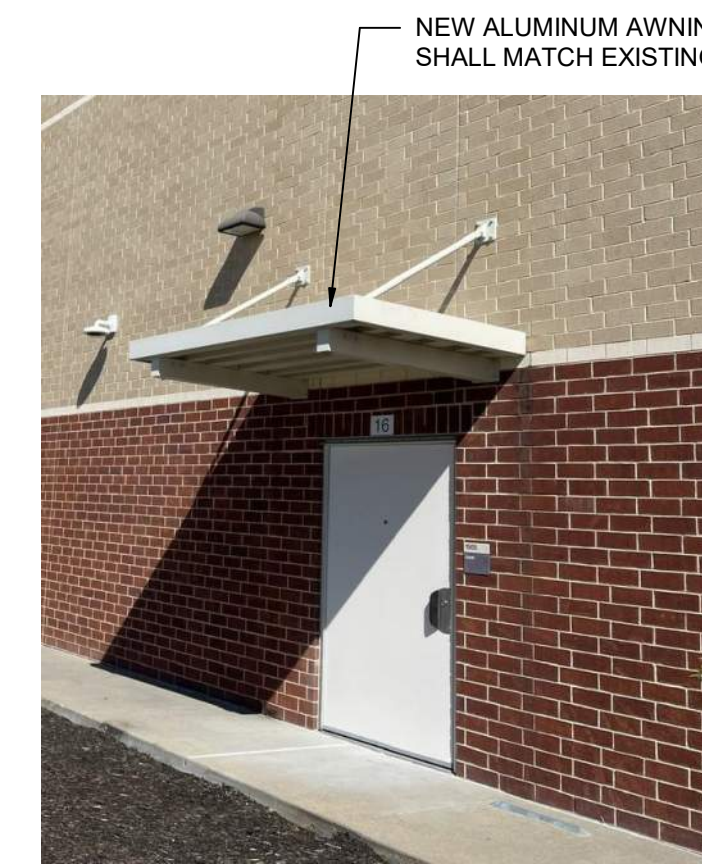
4 ENLG ELEVATION NORTH EAST - FINE ARTS  
1/4" = 1'-0"



5 ENLG ELEVATION SOUTH EAST - FINE ARTS  
1/4" = 1'-0"



6 ENLG ELEVATION SOUTH - FINE ARTS  
1/4" = 1'-0"

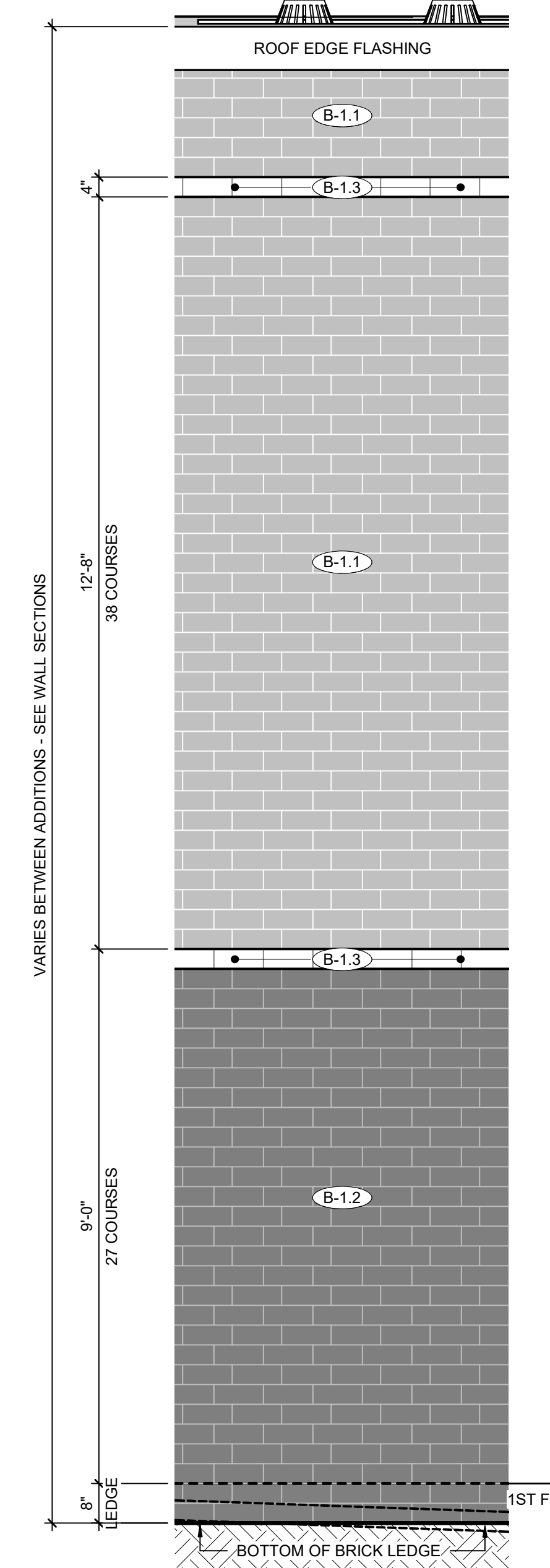


1.1 EXISTING ALUMINUM AWNING

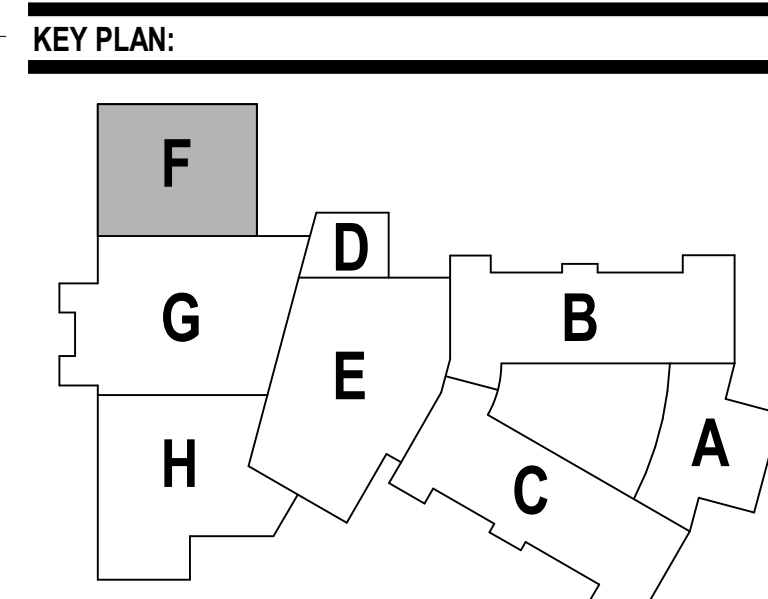
**BRICK LEGEND**

**NOTE:** FOR VERTICAL HEIGHTS OF BANDING, MATCH EXISTING BUILDING ADJACENT TO NEW ADDITION - SEE WALL SECTIONS FOR DIMENSIONS & DESCRIPTIONS. MATCH BRICK LEDGE DEPTH VERIFIED IN FIELD

	EXTRA LARGE KING SIZED BRICK @ BLDG RUNNING BOND COURSE FIELD COLOR - TAN <b>ACME BRICK - DOESKIN</b>
	EXTRA LARGE KING SIZED BRICK @ BLDG RUNNING BOND COURSE FIELD COLOR - RED <b>ACME BRICK - BURGUNDY</b>
	EXTRA LARGE KING SIZED BRICK @ BLDG RUNNING BOND COURSE BAND - WHITE <b>ACME BRICK - GLACIER WHITE</b>
	MASONRY JOINTS
	WALL EXPANSION JOINTS



7 BRICK COURSING  
1/2" = 1'-0"



**NATEX CORPORATION ARCHITECTS**  
www.natexarchitects.com  
447 Heights Boulevard  
Houston, TX 77007  
Phone: 713-975-9525  
Fax: 713-780-7824

**Coleman Partners ARCHITECTS**  
www.cpa.com  
3701 Kirby Drive, Suite 830  
Houston, TX 77098  
Tel: 832-947-1038 Fax: 281-214-5365

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
21020 PARK ROW  
KATY, TX 77449  
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9800 RICHMOND AVE.  
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HOUSTON, TX 77042  
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**SALAS O'BRIEN**  
10930 W. SAM HOUSTON PKWY. N.  
SUITE 900  
HOUSTON, TX 77064  
tel: 281.664.1900

**CONSTRUCTION DOCUMENT**

**REGISTERED ARCHITECT**  
STATE OF TEXAS

**ANTHONY, HOPPER & KAHLA MS RENOVATIONS**

**ANTHONY MIDDLE SCHOOL**  
10215 Greenhouse Rd., Cypress TX 77433  
CFISD PROJECT NO: 24-02-5750-R-RFP

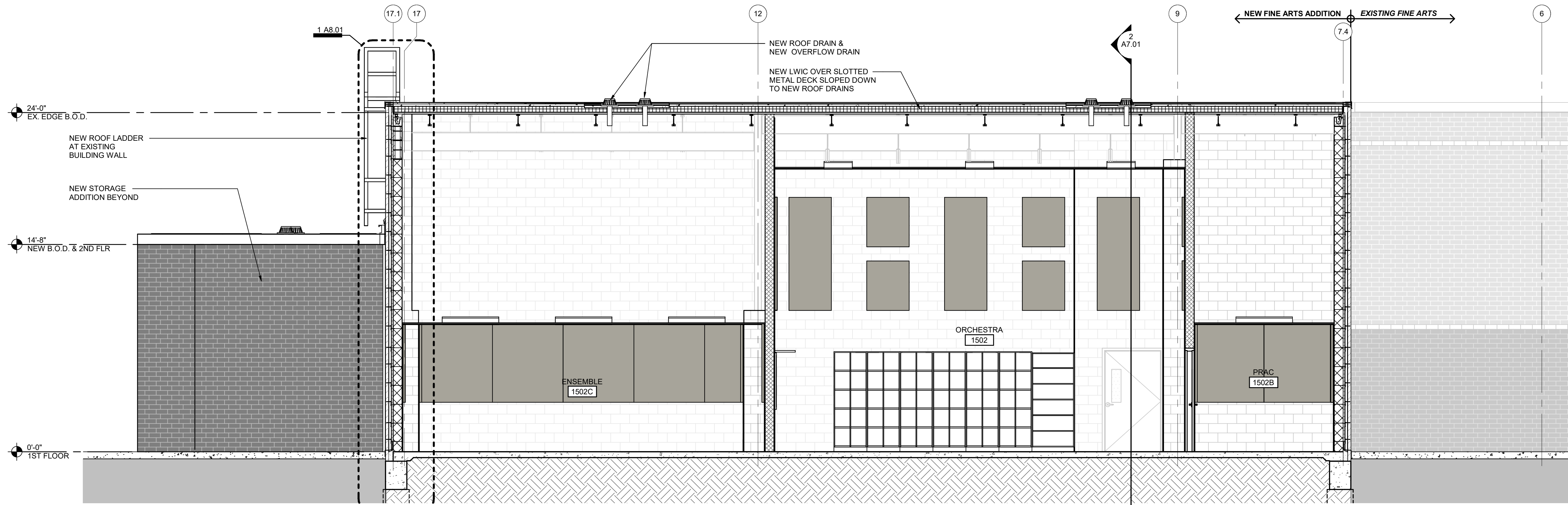
Project Number: 23072  
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Drawn By: WHL / KLO

**EXTERIOR ELEVATIONS**

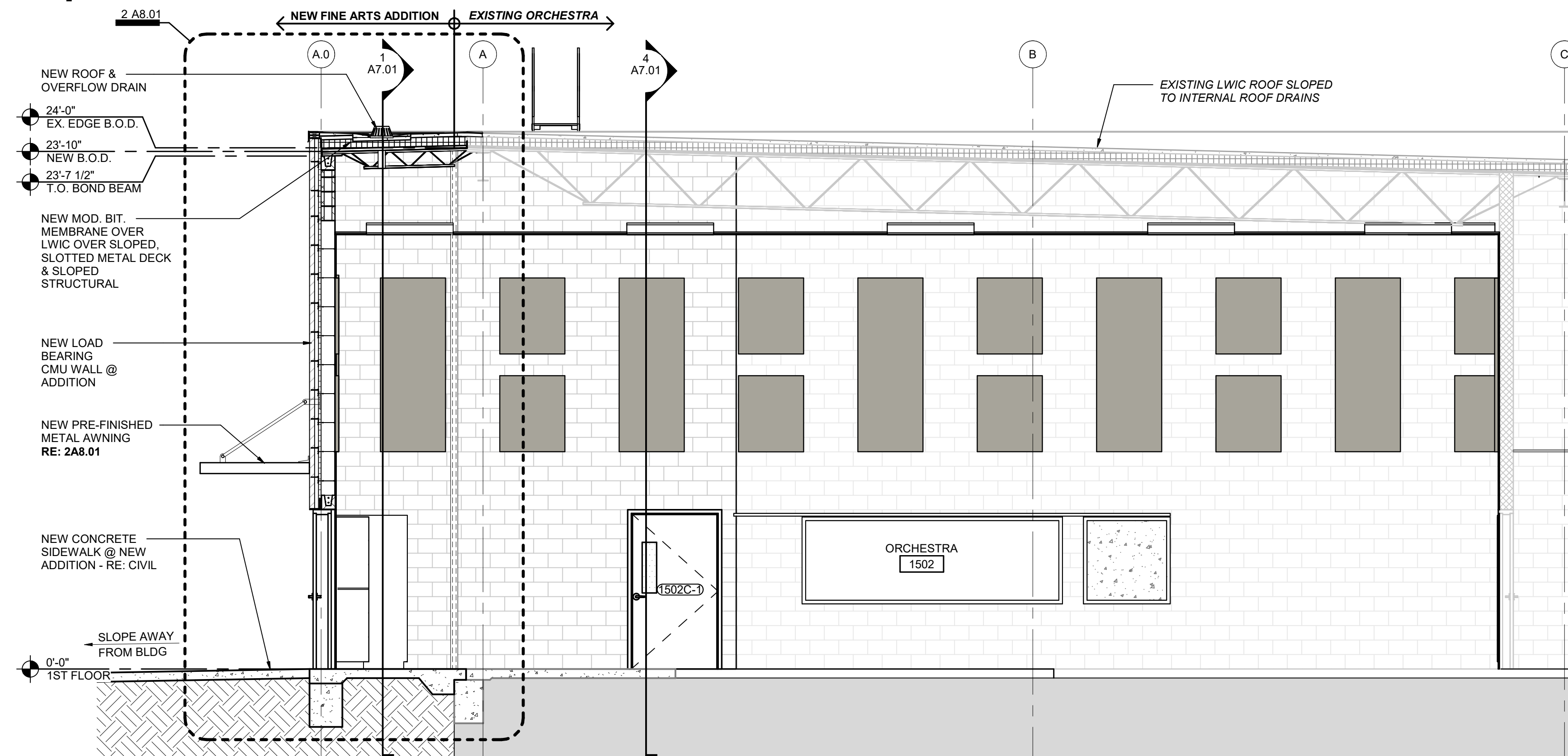
**A6.01**

of

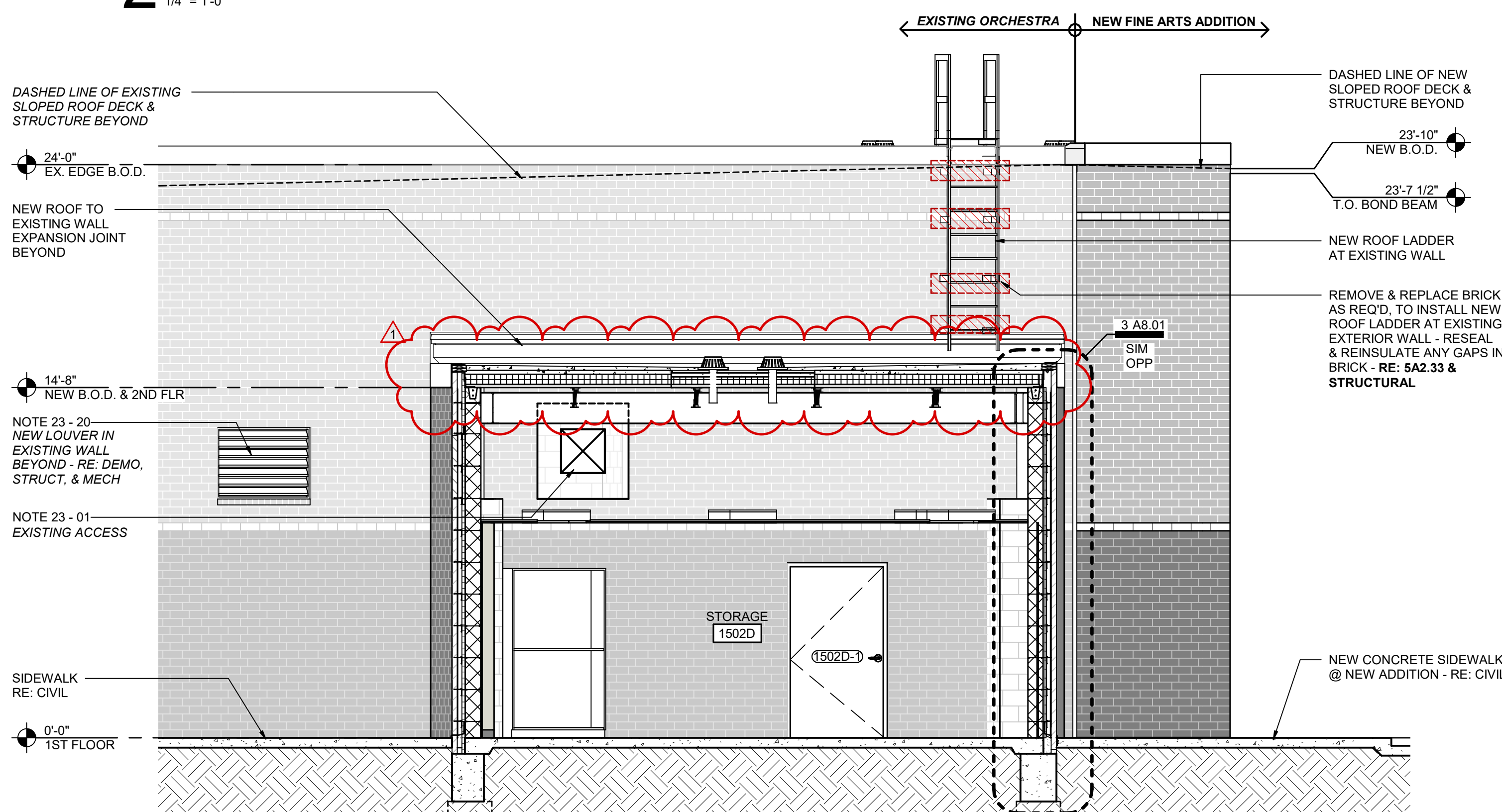




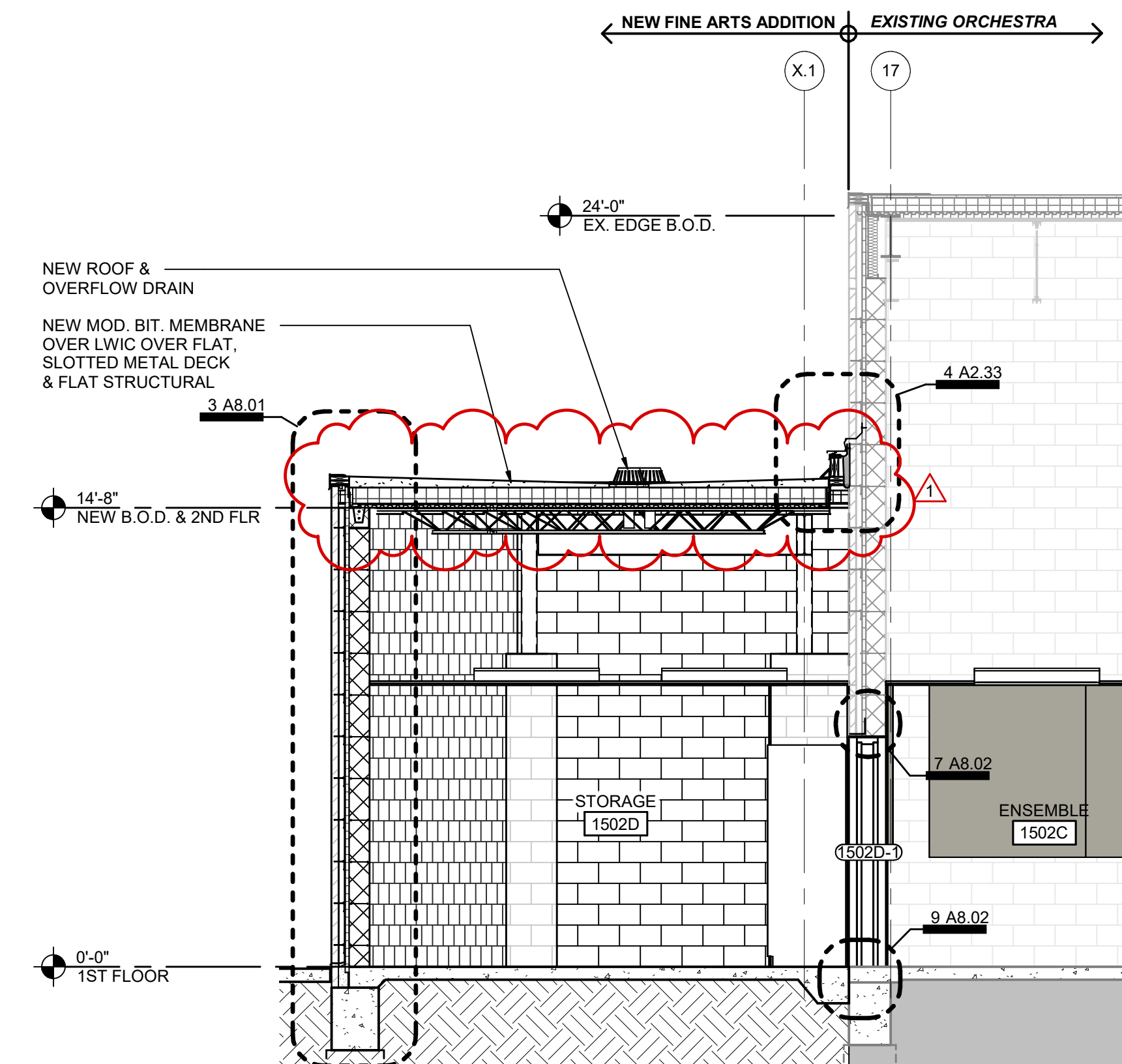
**1 BUILDING SECTION - FINE ARTS - ORCHESTRA ADDITION**  
1/4" = 1'-0"



**2 BUILDING SECTION - FINE ARTS - ORCHESTRA**  
1/4" = 1'-0"



**3 BUILDING SECTION - FINE ARTS - STORAGE ADDITION**  
1/4" = 1'-0"



**4 BUILDING SECTION - ORCHESTRA STORAGE**  
1/4" = 1'-0"

**BRICK LEGEND**

**NOTE:** FOR VERTICAL HEIGHTS OF BANDING, MATCH EXISTING BUILDING ADJACENT TO NEW ADDITION - SEE WALL SECTIONS FOR DIMENSIONS & DESCRIPTIONS. MATCH BRICK LEDGE DEPTH VERIFIED IN FIELD.

B-1.1	EXTRA LARGE KING SIZED BRICK @ BLDG RUNNING BOND COURSING FIELD COLOR - TAN <b>ACME BRICK - DOESKIN</b>
B-1.2	EXTRA LARGE KING SIZED BRICK @ BLDG RUNNING BOND COURSING FIELD COLOR - RED <b>ACME BRICK - BURGUNDY</b>
B-1.3	EXTRA LARGE KING SIZED BRICK @ BLDG RUNNING BOND COURSE BRICK BAND - WHITE <b>ACME BRICK - GLACIER WHITE</b>
MJ	MASONRY JOINTS
EJ	WALL EXPANSION JOINTS

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www.natexarchitects.com  
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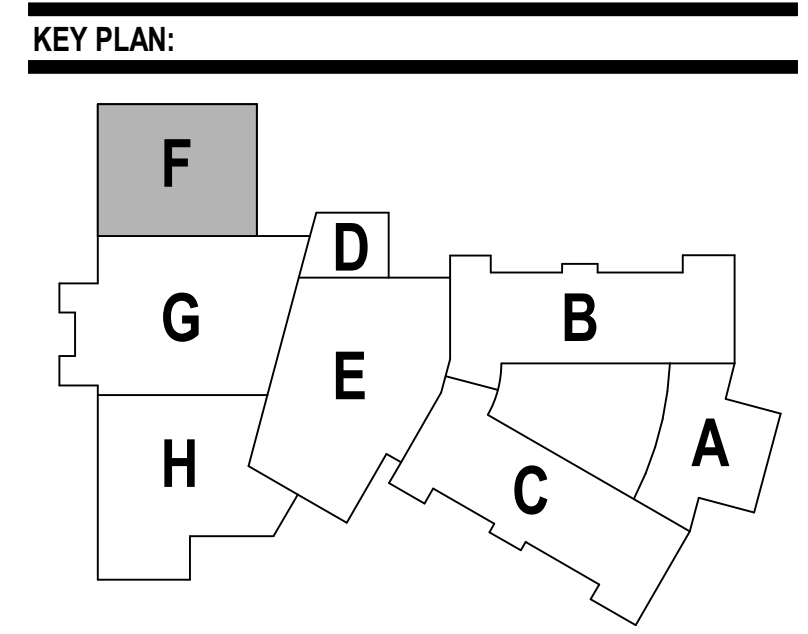
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**DALLY + ASSOCIATES, INC.**  
9800 RICHMOND AVE.  
SUITE 400  
HOUSTON, TX 77042  
tel: 713-337-8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
10930 W. SAM HOUSTON PKWY. N.  
SUITE 900  
HOUSTON, TX 77064  
tel: 281-664-1900

**ANTHONY, HOPPER & KAHLA MS RENOVATIONS**  
**ANTHONY MIDDLE SCHOOL**  
10215 Greenhouse Rd., Cypress TX 77433  
CFISD PROJECT NO: 24-02-5750-R-RFP

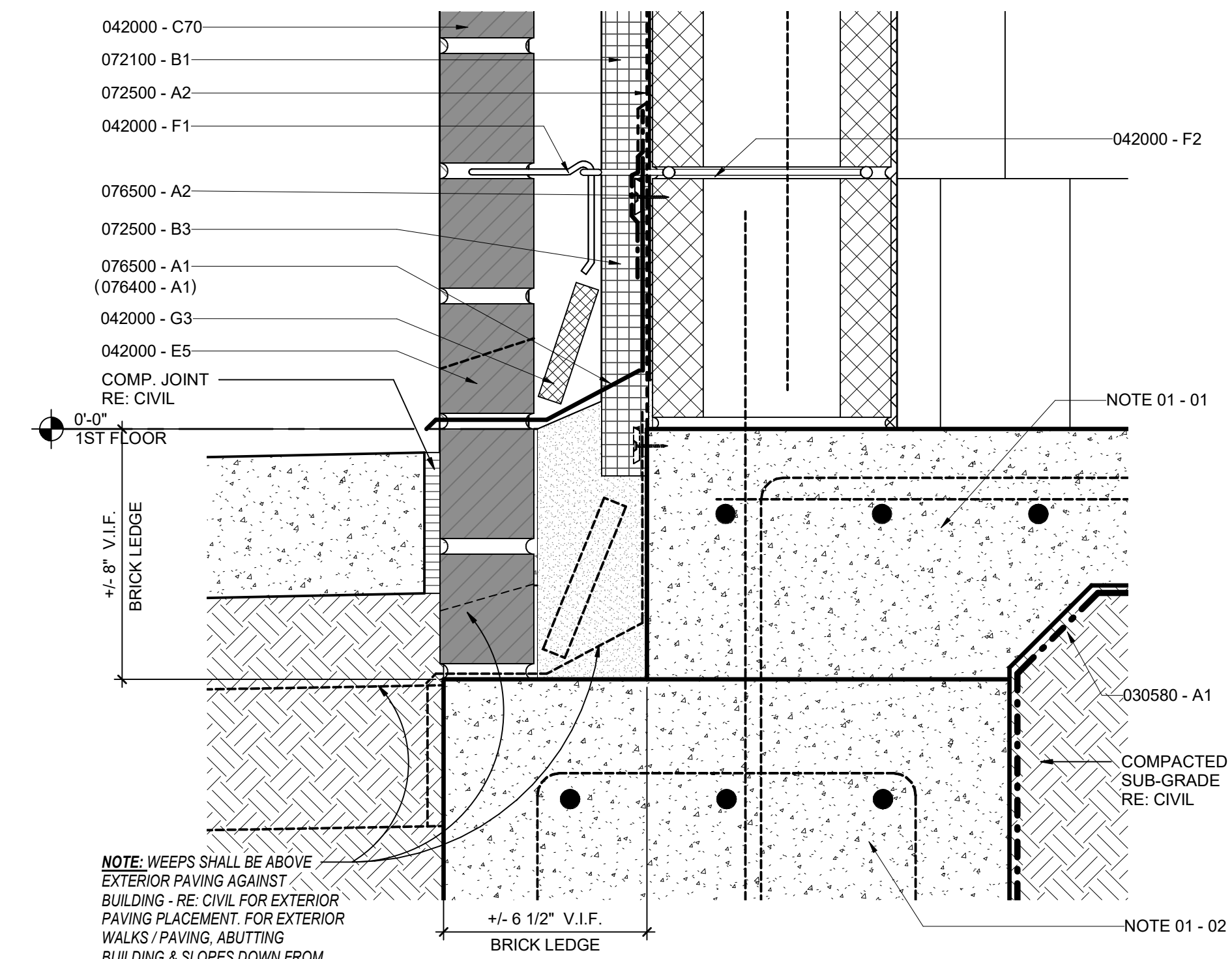


Project Number: 23072  
Date: 29 DECEMBER 2024  
Drawn By: WHL / KLO

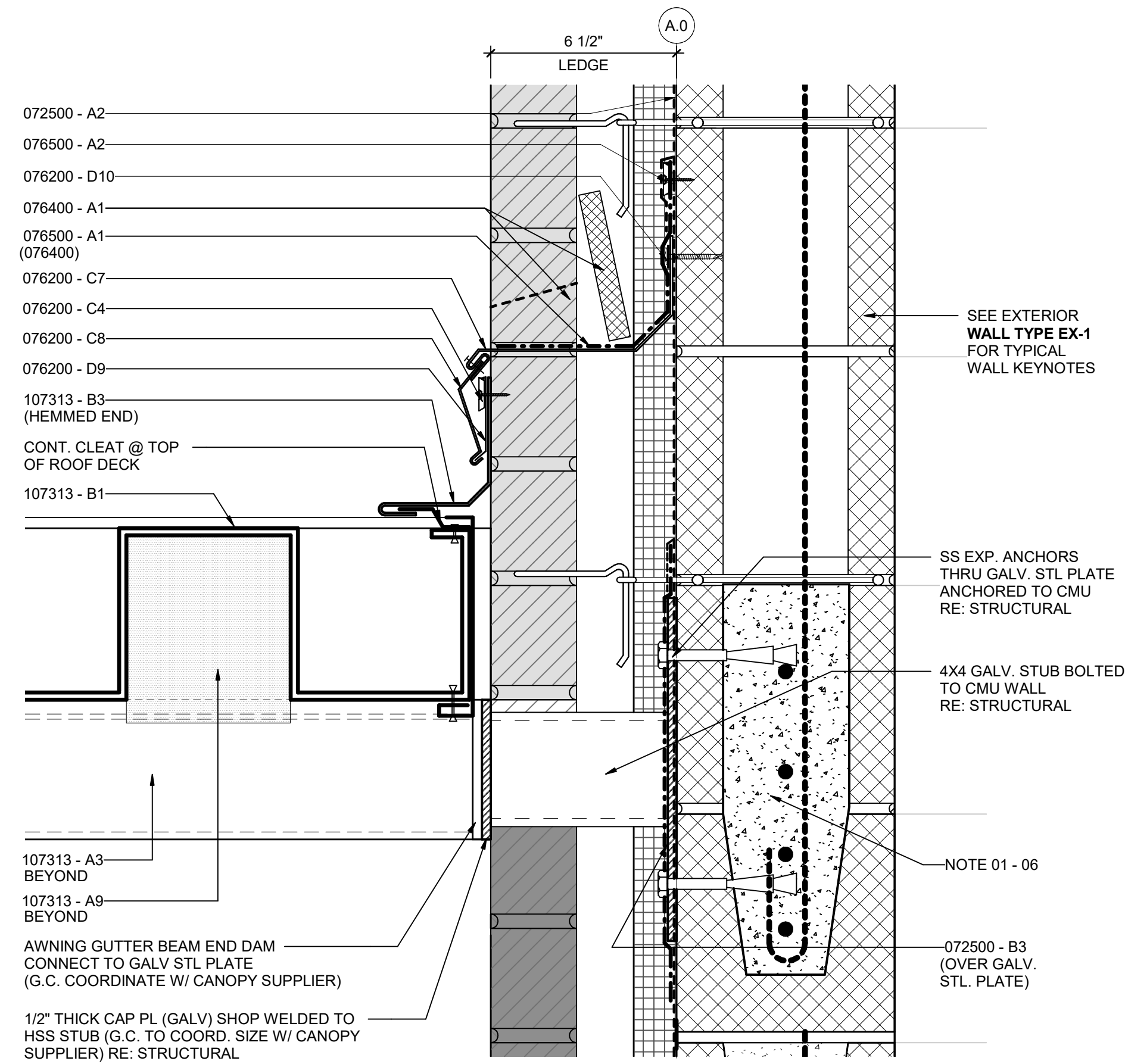
**SECTIONS**

**A7.01**

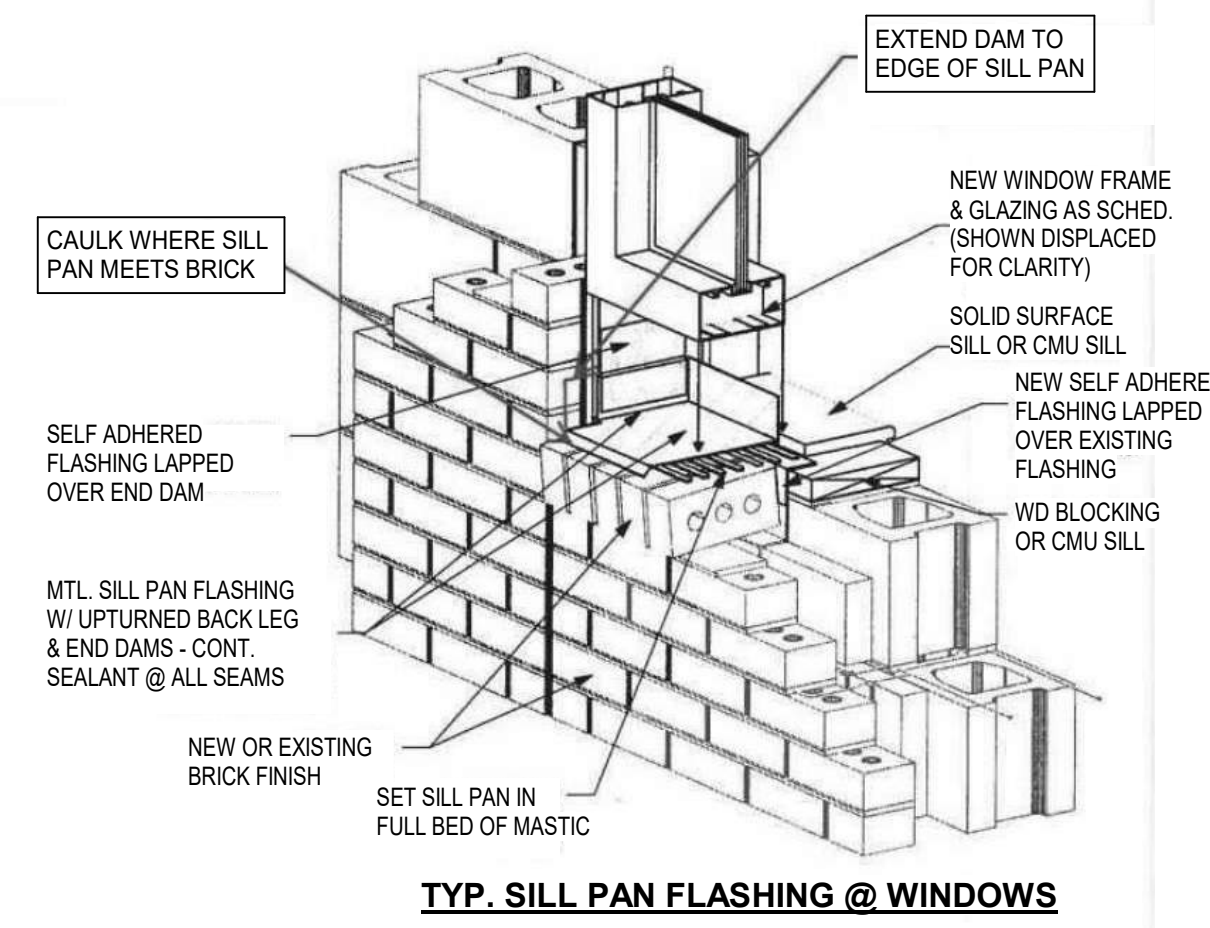




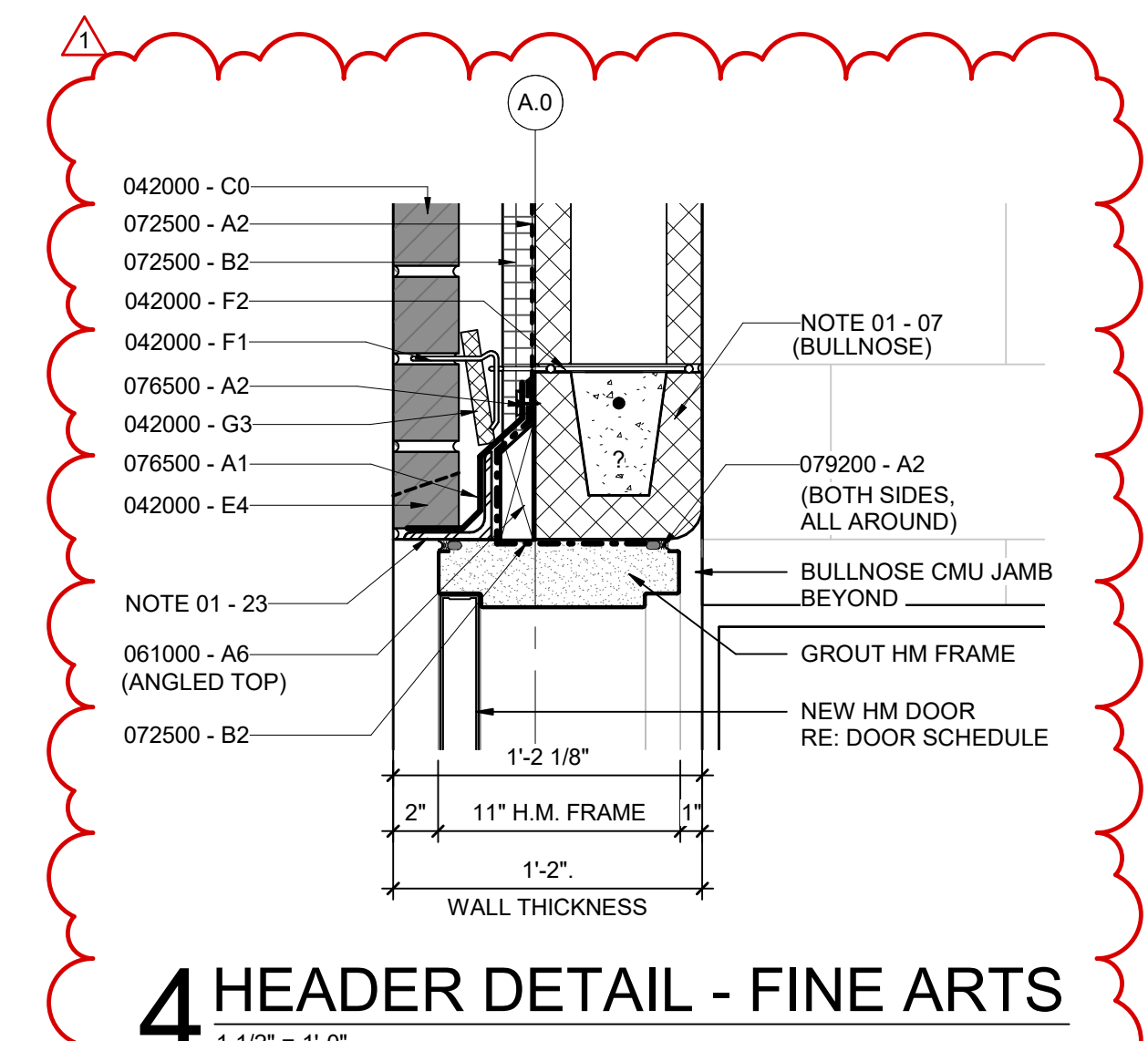
1 FOUNDATION DETAIL - FINE ARTS  
3" = 1'-0"



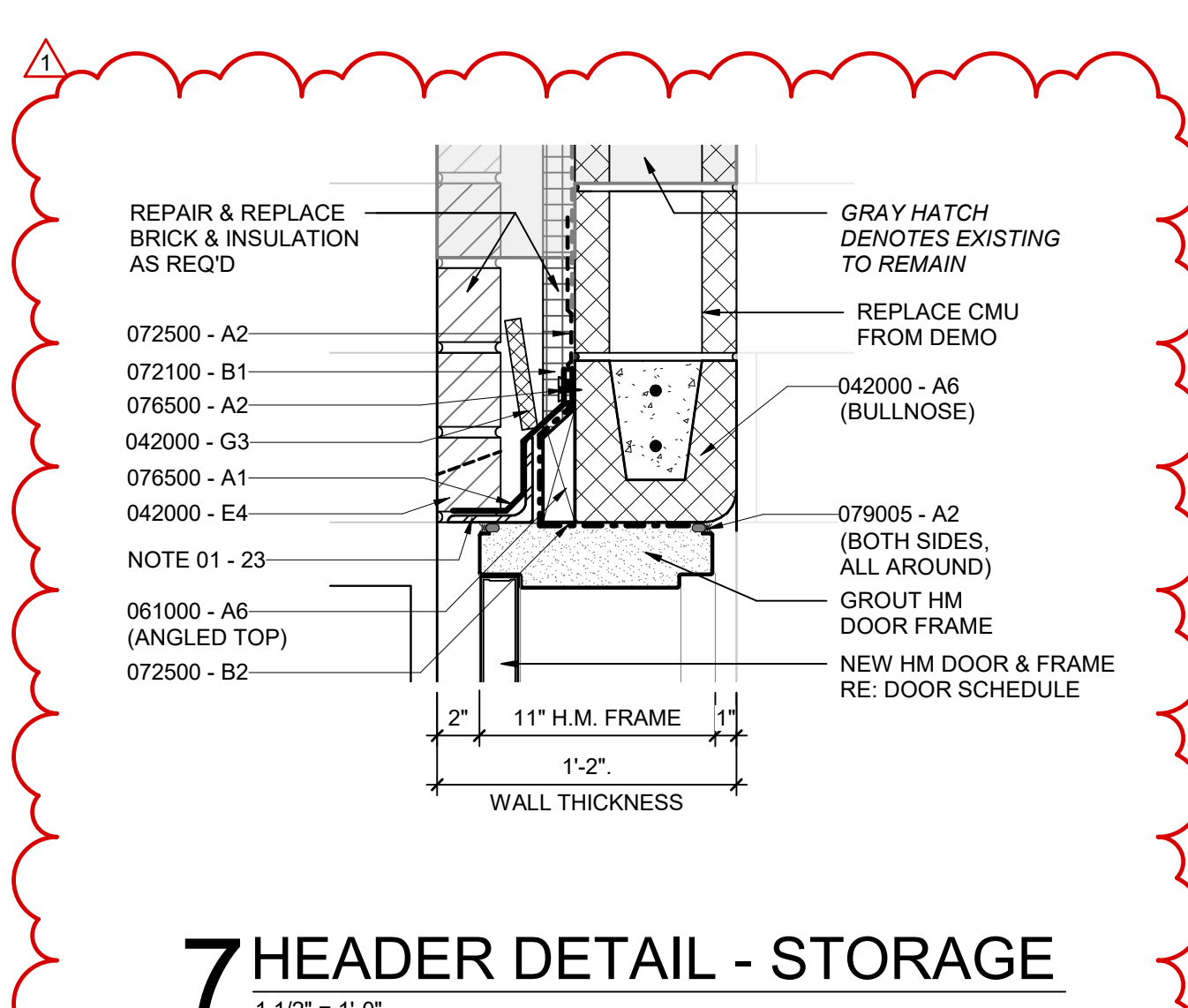
2 AWNING FLASHING - THRU-WALL  
3" = 1'-0"



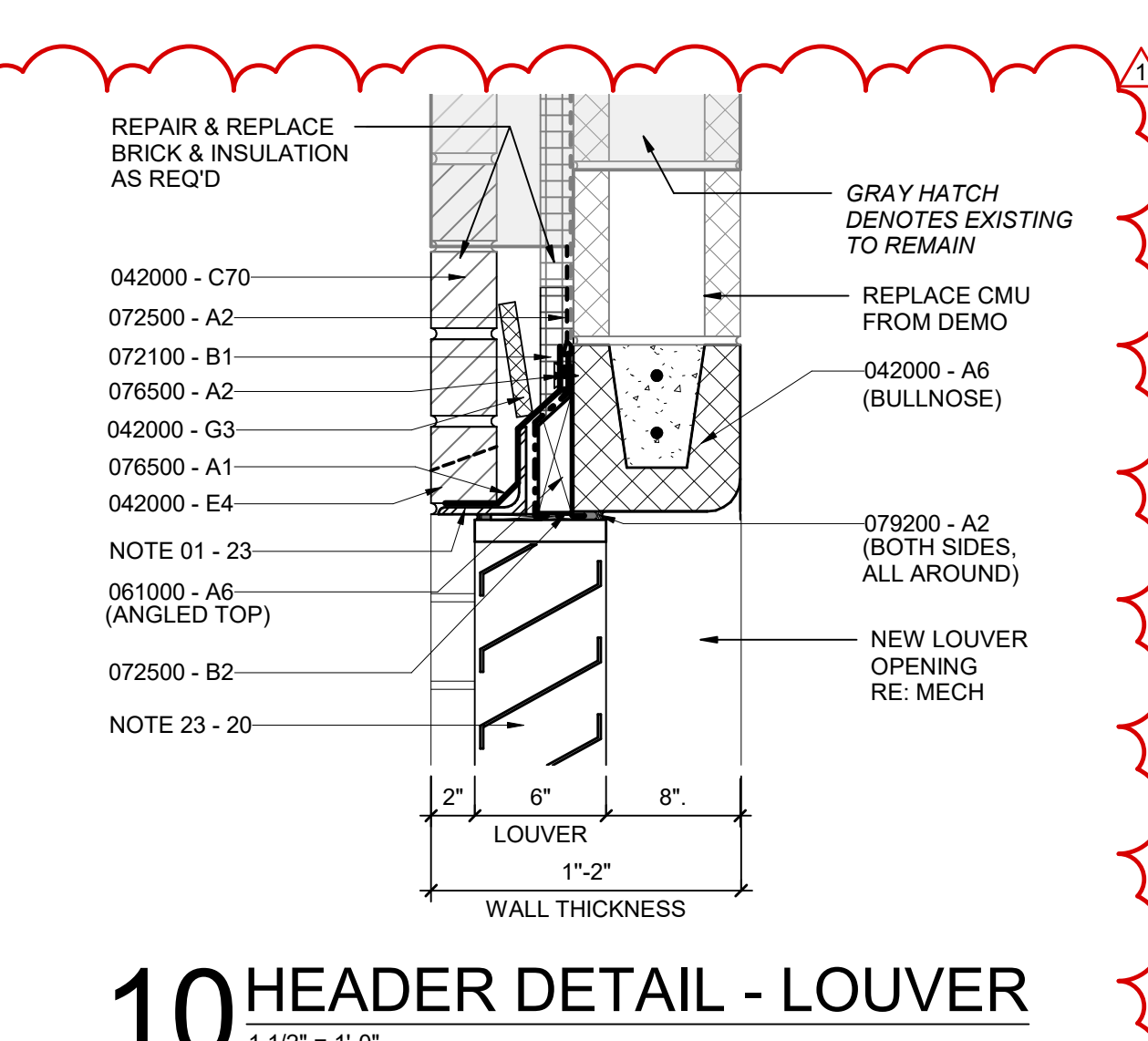
3 TYP. EXT. SILL PAN DETAIL  
12" = 1'-0"



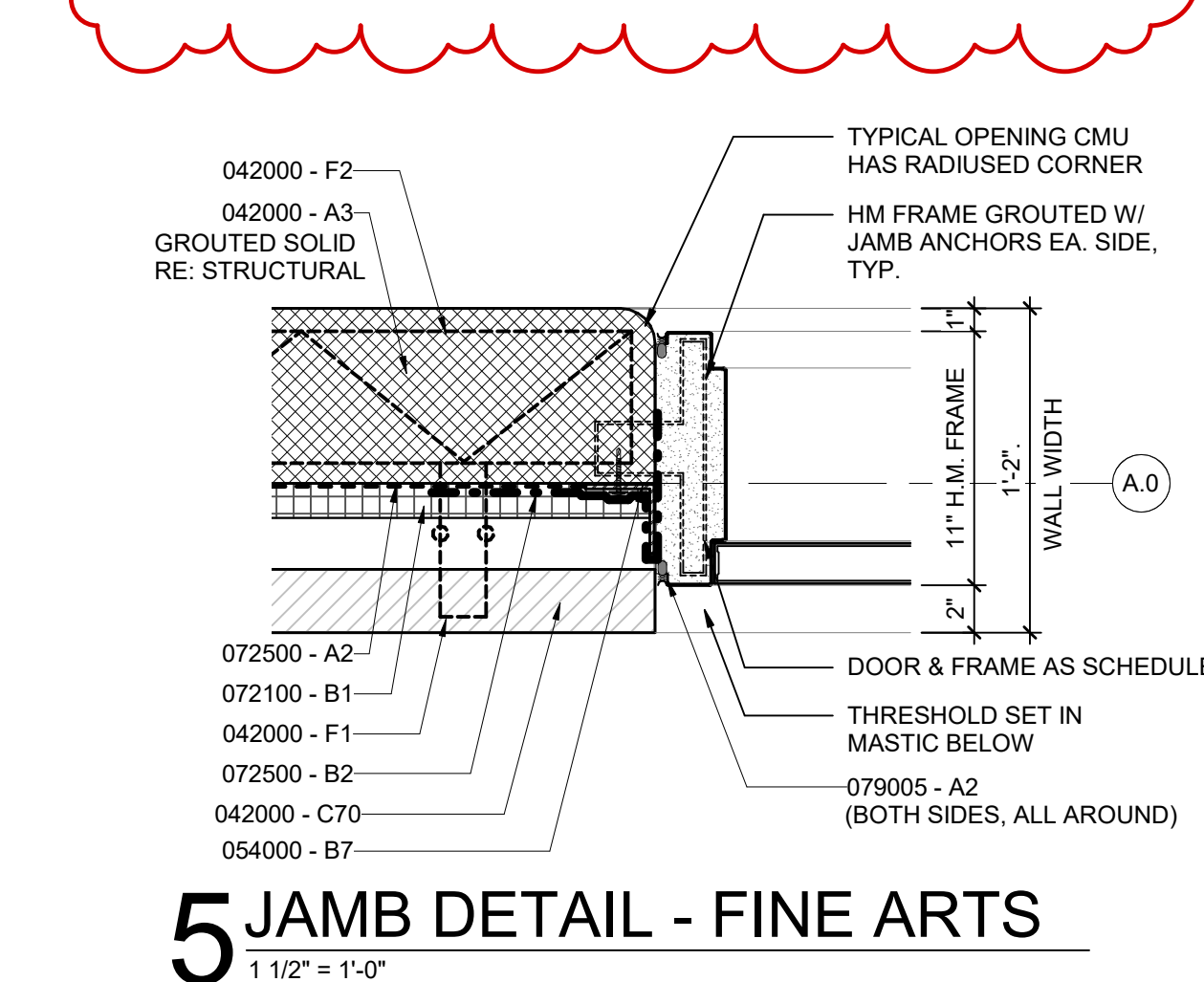
4 HEADER DETAIL - FINE ARTS  
1 1/2" = 1'-0"



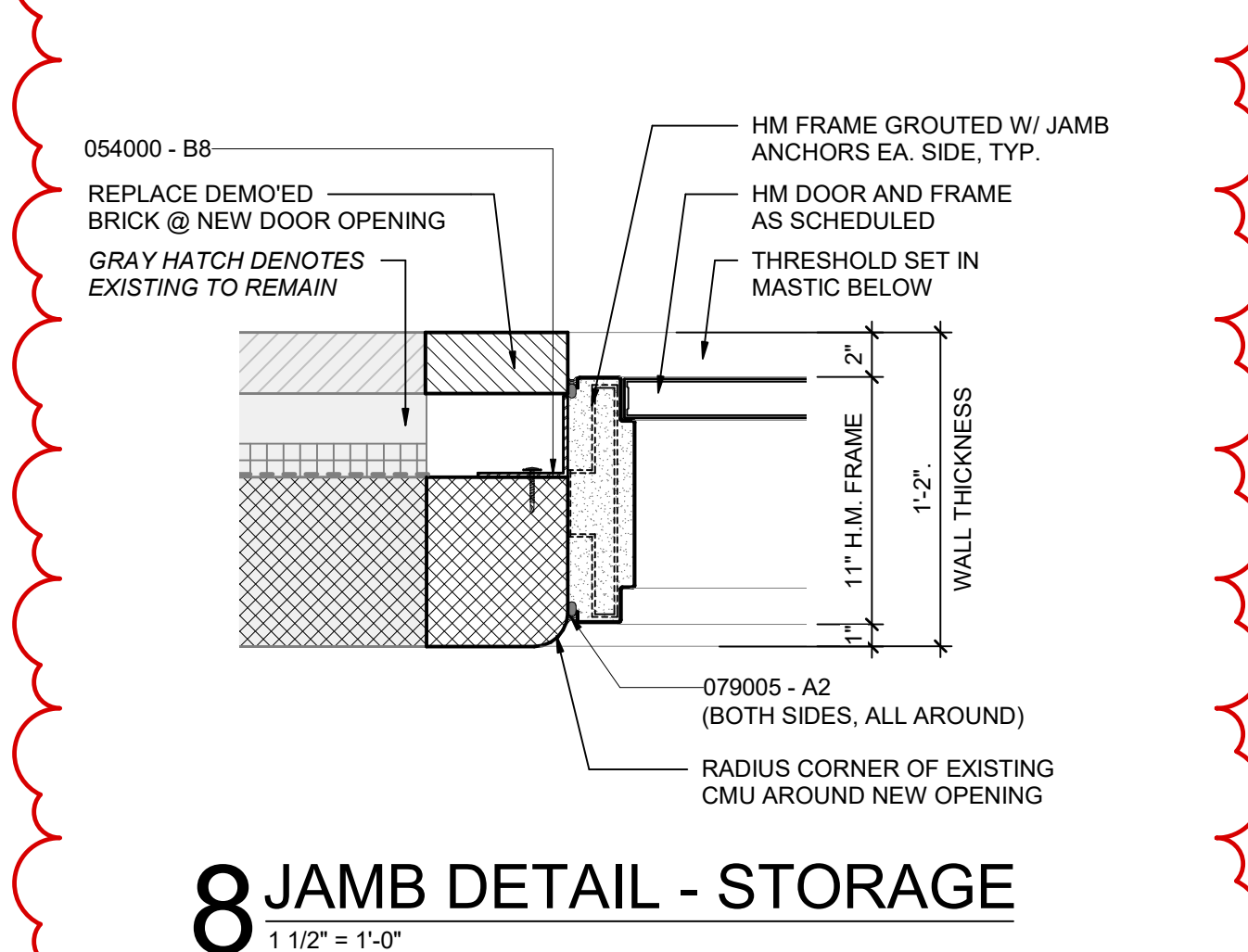
7 HEADER DETAIL - STORAGE  
1 1/2" = 1'-0"



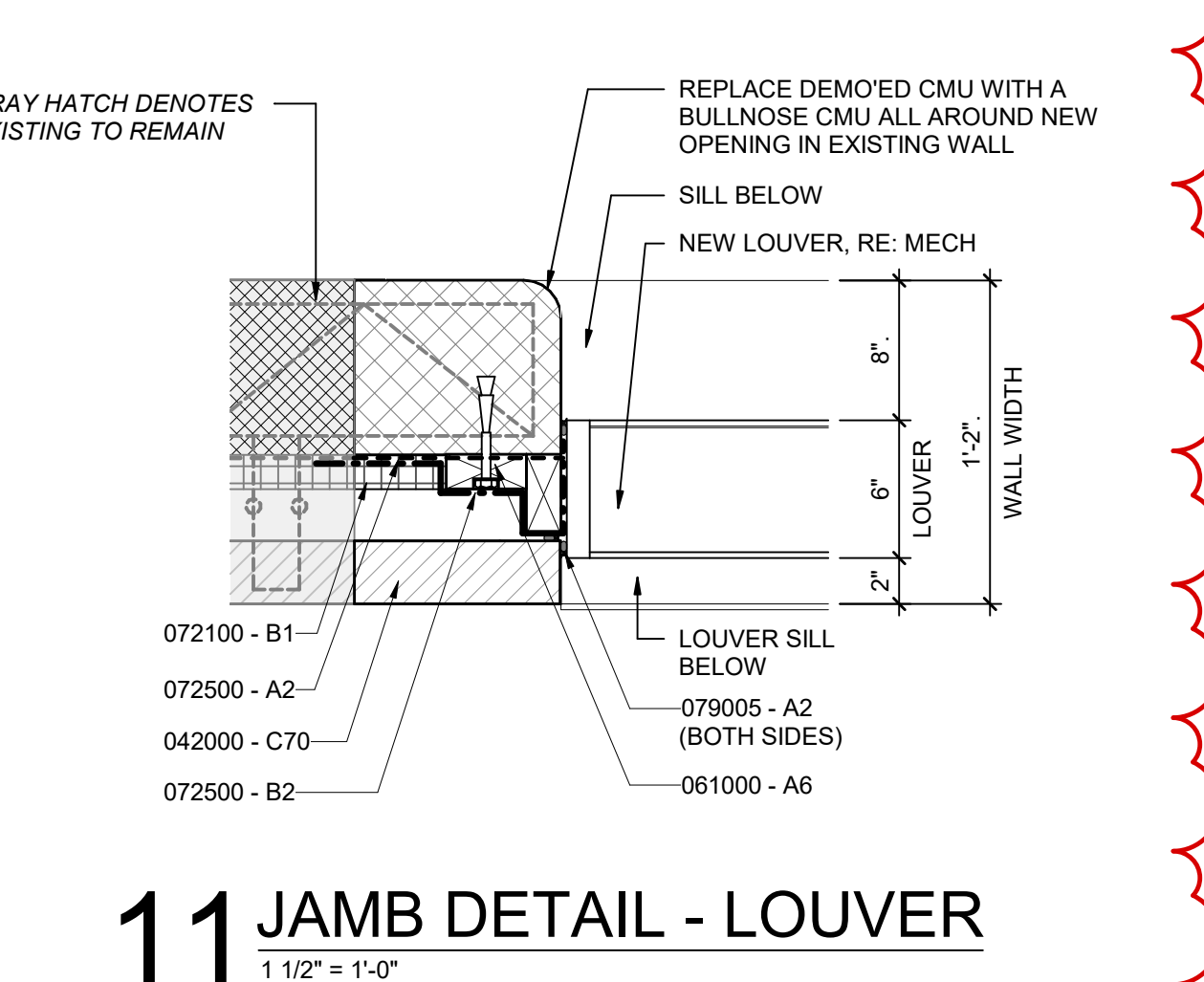
10 HEADER DETAIL - LOUVER  
1 1/2" = 1'-0"



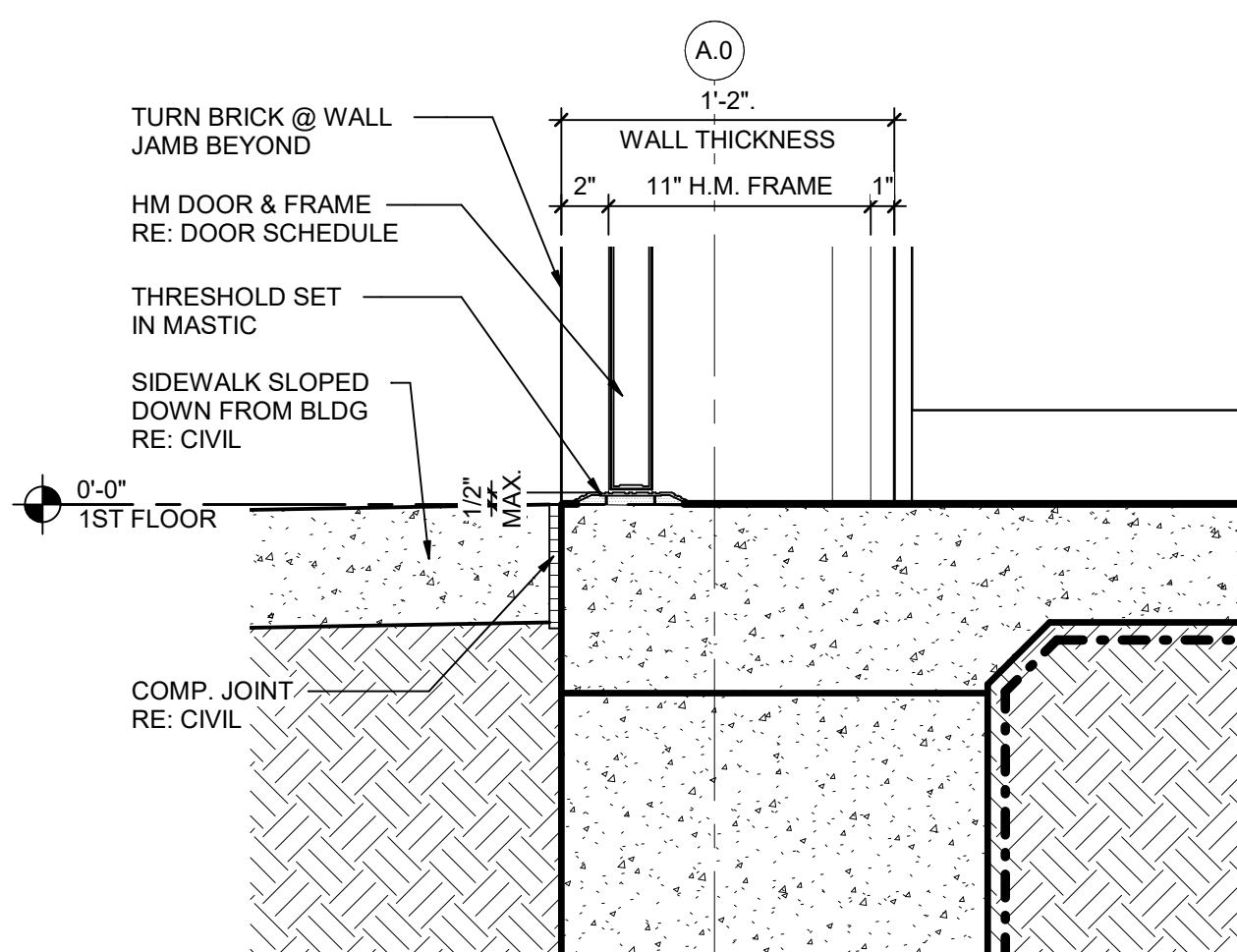
5 JAMB DETAIL - FINE ARTS  
1 1/2" = 1'-0"



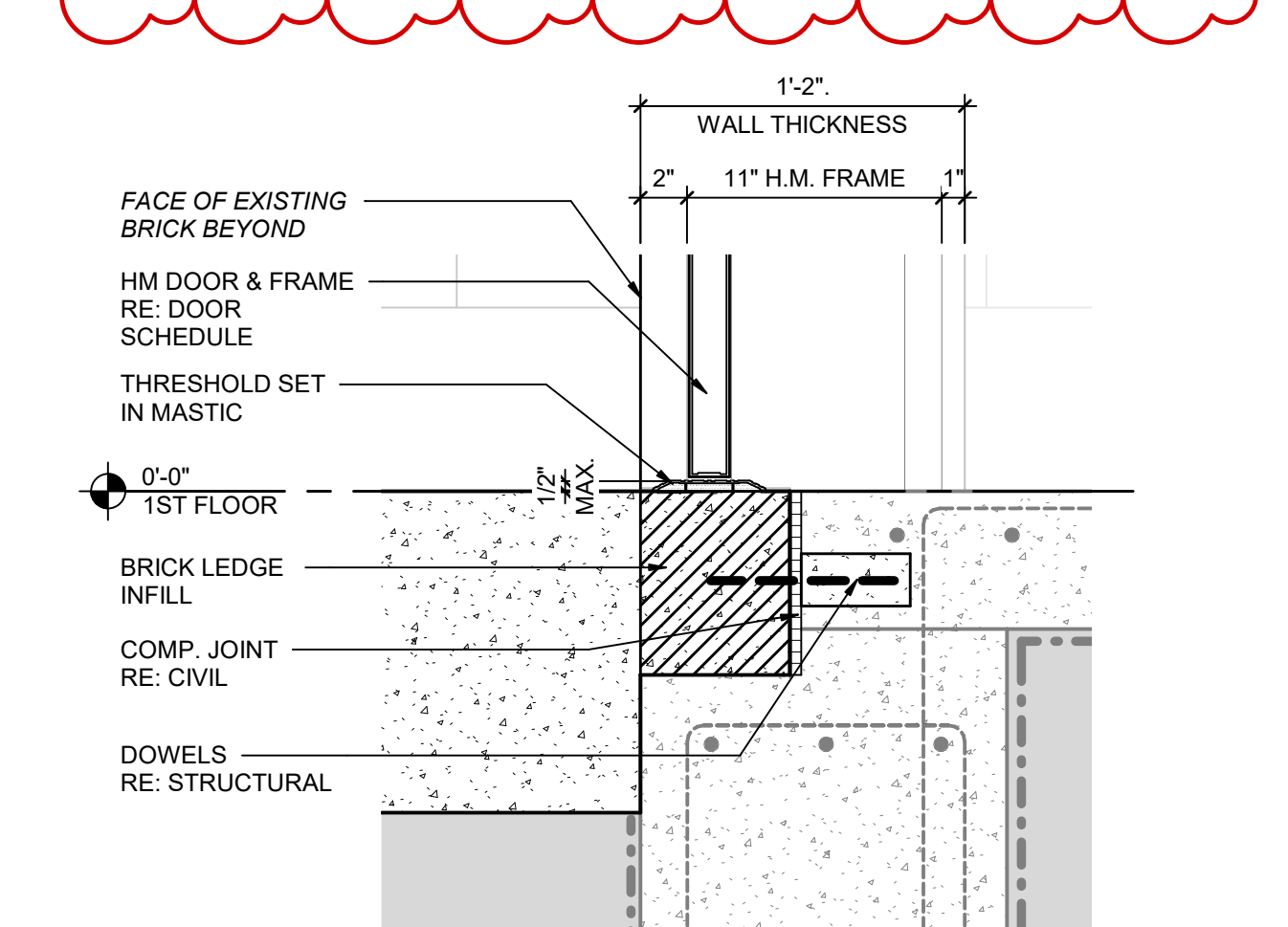
8 JAMB DETAIL - STORAGE  
1 1/2" = 1'-0"



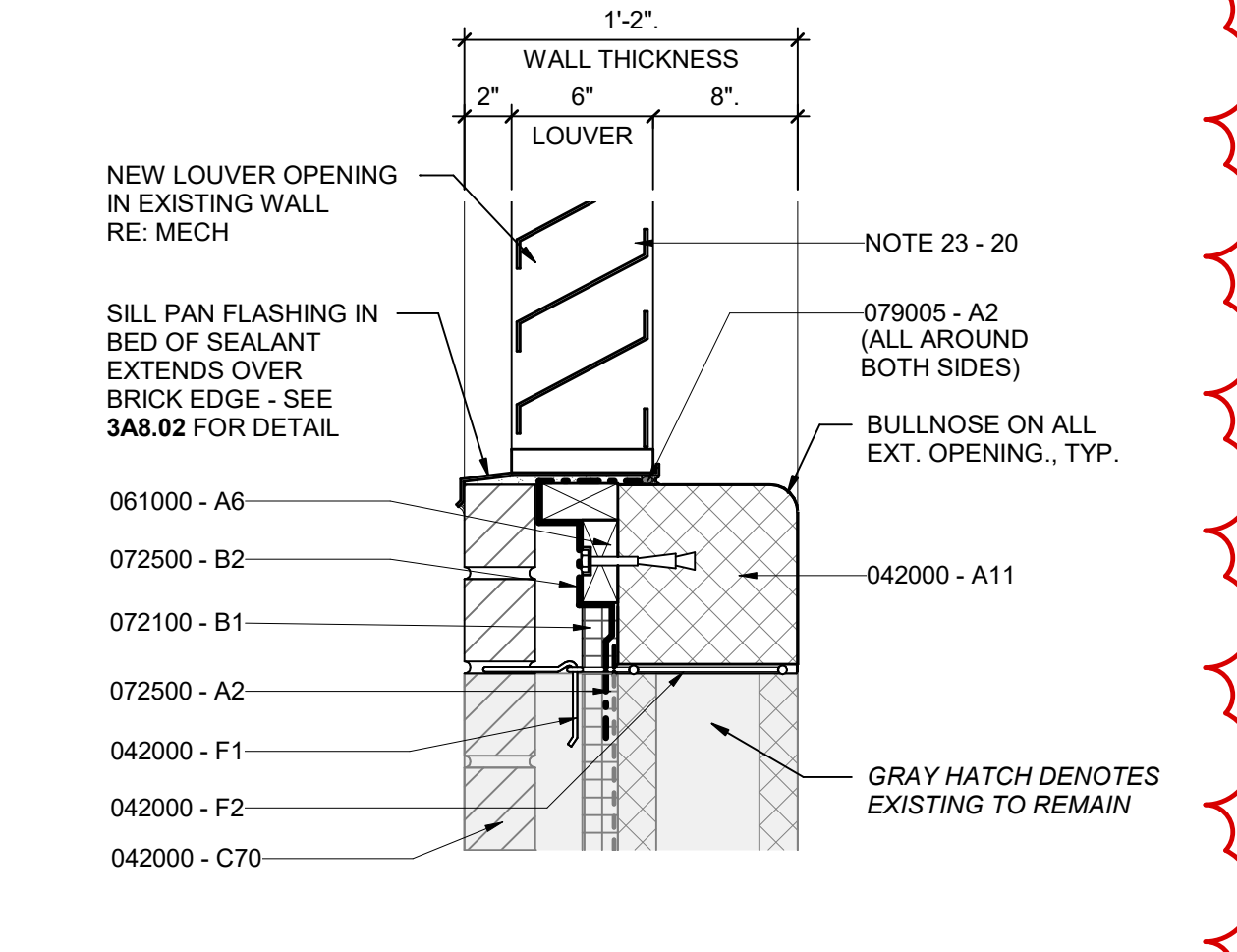
11 JAMB DETAIL - LOUVER  
1 1/2" = 1'-0"



6 SILL DETAIL - FINE ARTS  
1 1/2" = 1'-0"



9 SILL DETAIL - STORAGE  
1 1/2" = 1'-0"



12 SILL DETAIL - LOUVER  
1 1/2" = 1'-0"

WALL SECTION NOTES  
PRIOR TO SUBMITTING SHOP DRAWINGS, CONTRACTOR SHALL FIELD VERIFY THE FOLLOWING EXISTING CONDITIONS & COMPARE WITH CONSTRUCTION DOCUMENTS:  
1. TOP OF ROOF EDGE HEIGHT.  
2. BOTTOM OF ROOF DECK.  
3. BRICK SIZES.  
4. METAL FASCIA SIZE.  
5. BRICK LEDGE DEPTH.  
\*\* NEW WALL SHALL ALIGN WITH ADJACENT EXISTING WALL INCLUDING BUT NOT LIMITED TO TOP OF ROOF, MASONRY COURSEWORK, MASONRY TYPES, BANDING, AND METAL FASCIA.  
NOTE: CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN DOCUMENTS & EXISTING CONDITIONS.

MATERIAL KEYNOTES

030580 - A1	UNDER-SLAB VAPOR RETARDER / BARRIER, RE: SPECIFICATIONS
042000 - A3	8X8X16 CONCRETE MASONRY UNIT - RE: STRUCT
042000 - A6	U-SHAPED BOND BEAM BLOCK (WALL) OR LINTEL BLOCK (OPENING) - RE: STRUCT
042000 - A11	8X8X8 SOLID CONCRETE MASONRY UNIT SILL BLOCK WITH BULLNOSE EDGE
042000 - B4	GROUND FACED (SMOOTH FACED) LOAD BEARING CMU WALL - RE: STRUCTURAL
042000 - C0	KING SIZED VENEER FACE BRICK - STRETCHER COURSES (RUNNING BOND) - SEE ELEVATIONS FOR BANDING & COLOR
042000 - C70	XI KING SIZED VENEER FACE BRICK - STRETCHER COURSES (RUNNING BOND) - SEE ELEVATIONS FOR BANDING & COLOR
042000 - E4	OPEN HEAD JOINT AT 24" O.C. MAX (WEEP) - FILLED WITH MOLDED PVC GRILLE, INSECT RESISTANT
042000 - E5	WEEP HOLES @ 24" OC - FILLED WITH MOLDED PVC GRILLE, INSECT RESISTANT
042000 - F1	ADJUSTABLE MASONRY VENEER WALL TIES @ 16" O.C. VERTICALLY MAX (16" O.C. STD BRICK) AND 16" O.C. HORIZONTALLY MAX - FOR UNEVEN WYTHES OF BRICK & CMU
042000 - F2	ADJUSTABLE HORIZONTAL TRUSS REINFORCEMENT WITH EYE-WIRE FOR ADJUSTABLE TIES @ 16" OC VERTICALLY MAX @ CMU - FOR WYTHES OF KING SIZED BRICK & STANDARD CMU
042000 - G3	MORTAR NET TYPICAL AT ALL THRU WALL FLASHING
054000 - B7	3" X 3" COLD FORM CONTINUOUS METAL ANGLE SPANNING AIR GAP @ OPENING JAMBS TYPICAL (CFMF)
054000 - B8	3 1/2" X 3 1/2" GOLD FORM CONTINUOUS METAL ANGLE SPANNING AIR GAP @ OPENING JAMBS TYPICAL (CFMF)
061000 - A6	2X TREATED WOOD BLOCKING OR NAILER @ ROOFING SEE SPEC SECTION 061005
072100 - B1	RIGID WALL INSULATION - 1-1/2" THICK IN WALL CAVITY - RE: SPECS
072500 - A2	FLUID APPLIED AIR BARRIER OVER EXTERIOR CMU
072500 - B2	SELF-ADHERING FLASHING MEMBRANE @ WALL OPENINGS
072500 - B3	SELF-ADHERING TRANSITION MEMBRANE @ WALL CONNECTIONS
076200 - C4	TERMINATION BAR WITH CONTINUOUS BEAD OF SEALANT (AS REQ'D AT THRU WALL FLASHING)
076200 - C7	STAINLESS STEEL THRU-WALL FLASHING RECEIVER
076200 - C8	STAINLESS STEEL COUNTER FLASHING
076200 - D9	STAINLESS STEEL WIND CLIPS / CLEATS @ 30" O.C. W/ TERMINATION BAR FASTENED @ 6" O.C. MIN., SEALED CONTINUOUS
076200 - D10	STAINLESS STEEL THRU-WALL FLASHING ANCHOR
076400 - A1	COMBINATION FLEXIBLE SHEET FLASHING (076500), MORTAR DEFLECTION, & WEEP AS COMPLETE ONE-STEP SYSTEM RE: SPECS
076500 - A1	FLEXIBLE THRU-WALL FLASHING - STAINLESS STEEL CORE W/ POLYMER FABRIC LAMINATED TO BOTTOM OF S FACE W/ ADHESIVE
076500 - A2	TERMINATION BAR W/ SELF TAPPING SCREWS JOINT SEALANT AND CYLINDRICAL SEALANT BACKING
079005 - A2	
079200 - A2	
107313 - A3	PREFINISHED ALUMINUM OPEN TOP GUTTER BEAM
107313 - A9	PREFINISHED ALUMINUM CANOPY BIRD SCREENS EA SIDE OF BEAMS / DECK
107313 - B1	PREFINISHED ALUMINUM AWNING
107313 - B3	PREFINISHED WALL TO AWNING DECK METAL FLASHING, CAULK TOP CONT.
NOTE 01 - 01	CONCRETE SLAB - RE: STRUCTURAL
NOTE 01 - 02	FOUNDATION - RE: STRUCTURAL
NOTE 01 - 06	CMU BOND BEAM - RE: STRUCTURAL
NOTE 01 - 07	CMU LINTEL - RE: STRUCTURAL
NOTE 01 - 23	STEEL ANGLE - RE: STRUCTURAL
NOTE 23 - 20	INTAKE LOUVER W/ INSECT SCREEN, RE: MECHANICAL

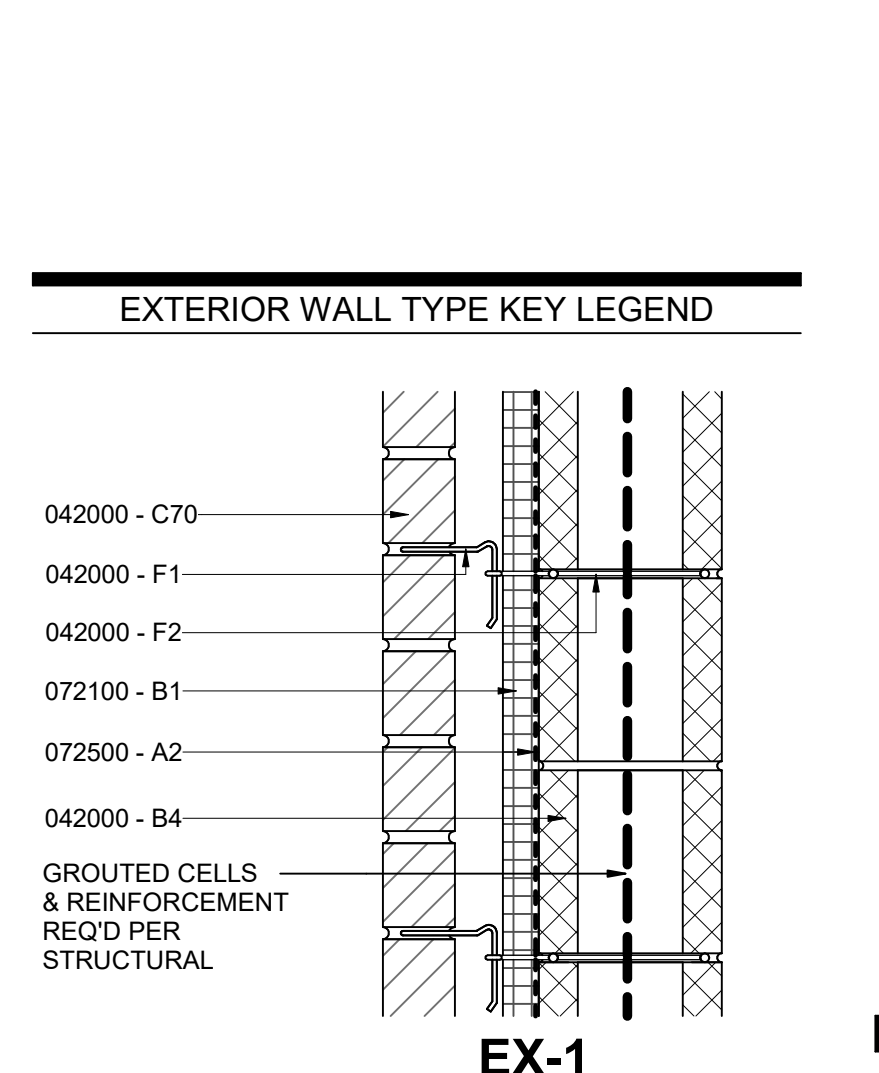
CIVIL ENGINEER  
**BROOKS AND SPARKS, INC.**  
21020 PARK ROW  
KATY, TX 77449  
tel: 281.578.9595

STRUCTURAL ENGINEER  
**DALLY + ASSOCIATES, INC.**  
9800 RICHMOND AVE.  
SUITE 400  
HOUSTON, TX 77042  
tel: 713.337.8881

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**SALAS O'BRIEN**  
10930 W. SAM HOUSTON PKWY. N.  
SUITE 900  
HOUSTON, TX 77064  
tel: 281.664.1900

EXTERIOR WALL TYPE KEY LEGEND

042000 - C70	
042000 - F1	
042000 - F2	
072100 - B1	
072500 - A2	
042000 - B4	
GROUTED CELLS & REINFORCEMENT REQ'D PER STRUCTURAL	



KEY PLAN:  
F  
D  
G  
E  
B  
C  
H  
A

Project Number: 23072  
Date: 29 DECEMBER 2024  
Drawn By: WHL / KLO

WALL SECTION DETAILS  
**A8.02**

**NATEX**  
CORPORATION  
ARCHITECTS  
www.nateearchitects.com  
447 Heights Boulevard  
Houston, TX 77007  
Phone: 713-975-9525  
Fax: 713-780-7824

**Coleman Partners**  
ARCHITECTS  
3701 Kirby Drive, Suite 830  
Houston, TX 77098  
tel: 832.947.1039 fax: 282.214.5365

REGISTERED ARCHITECT  
STATE OF TEXAS  
1998

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**BROOKS AND SPARKS, INC.**  
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1. ADDENDUM 02 - 01-16-25  
Revisions / Submission

Project Number: 23072  
Date: 29 DECEMBER 2024  
Drawn By: WHL / KLO

WALL SECTION DETAILS  
**A8.02**



**LINETYPE LEGEND**

---	EXISTING TO REMAIN
----	DISCONNECT AND REMOVE
---	NEW WORK

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

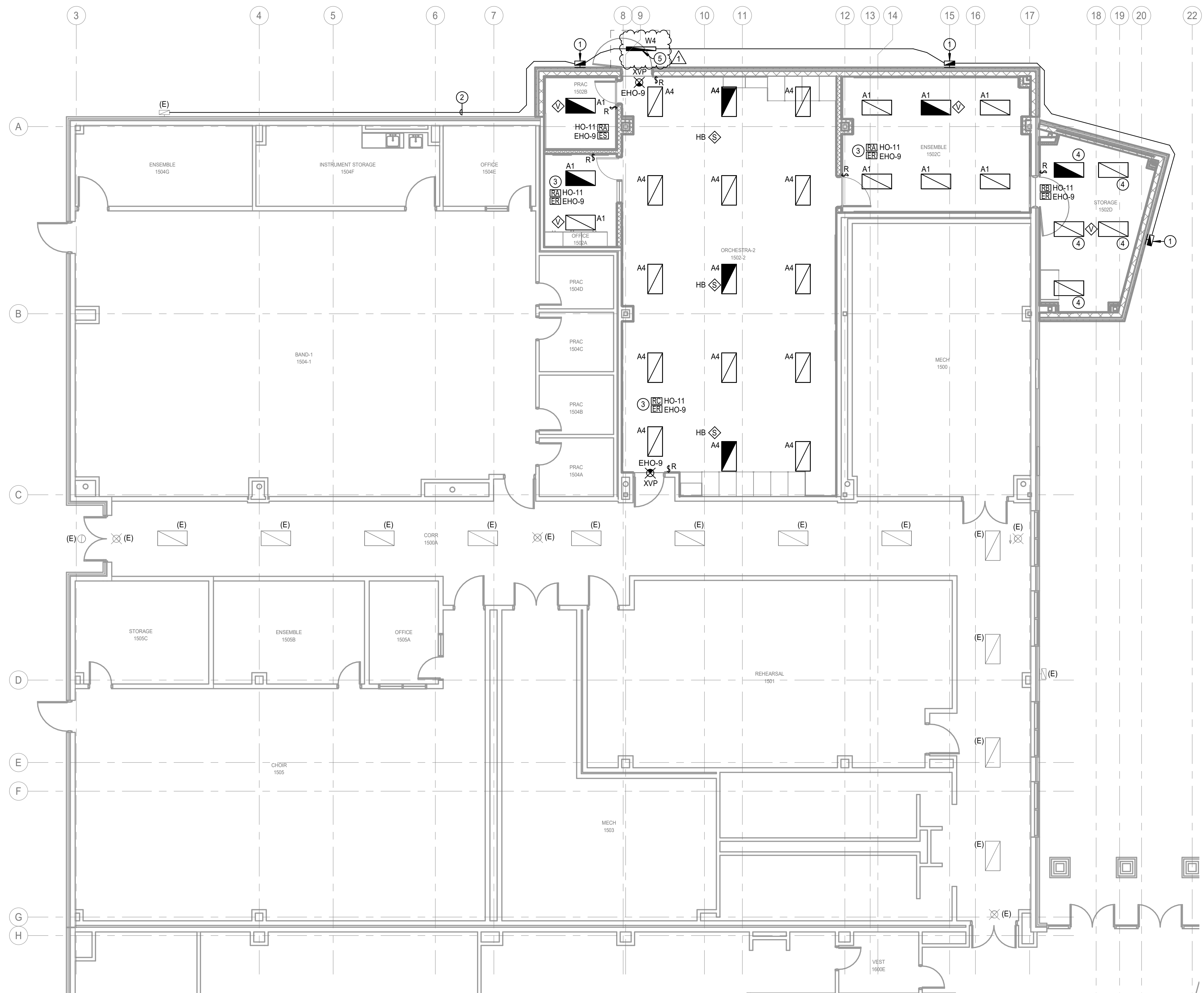
EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

**LIGHTING GENERAL NOTES**

- CONNECT NEW/ EXISTING LIGHT FIXTURES TO NEW NORMAL AND EMERGENCY POWER CIRCUITS AS SHOWN.
- LOCATION OF NEW / REPLACEMENT LIGHT FIXTURES SHALL RE-USE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESSIBLE CEILING WITH 1/2-INCH FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE LENGTH NOT TO EXCEED 6-FEET. DAISY CHAINING LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR NON-ACCESSIBLE CEILING, LIGHT FIXTURE WHIPS SHALL BE 1/2-INCH FLEXIBLE STEEL CONDUIT. LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILING MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL UL LISTED J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26.05.33 CONDUIT SYSTEMS.
- PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES. 20A EMERGENCY LOAD CONTROL RELAYS AND/OR TRANSFER SWITCHES. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
- LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY ABOVE ACCESSIBLE CEILING 12-FEET AFF OR BELOW ADJACENT TO SWITCH CONTROLLING THE SPACE. IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING. IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO PANEL SERVING THE LOAD. PROVIDE PLASTIC TAPE MACHINE TYPED NAME PLATE TO BOTTOM OF CEILING T-GRID BELOW RELAY LOCATION. WHITE LETTERS ON BLACK BACKGROUND WITH 1/4" HIGH LETTERS ON 1/2" TALL LABEL FOR DIGITAL MODULE. INDICATE AS DLM.
- LOCATE DIGITAL LIGHTING CONTROLLER FOR HIGH CEILING CORRIDORS, GYM AND OTHER HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING PER SPECIFICATIONS.
- LOCATE DIGITAL LIGHTING CONTROLLER FOR INSTRUCTIONAL SPACES AND OFFICES ABOVE ACCESSIBLE CEILING IN CORRIDOR DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE. GRID MARKERS WITH WORDING PER SPECIFICATIONS.
- OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED. CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECC-2015 C405.
- SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
- MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.
- COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
- PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM. CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26.05.33.

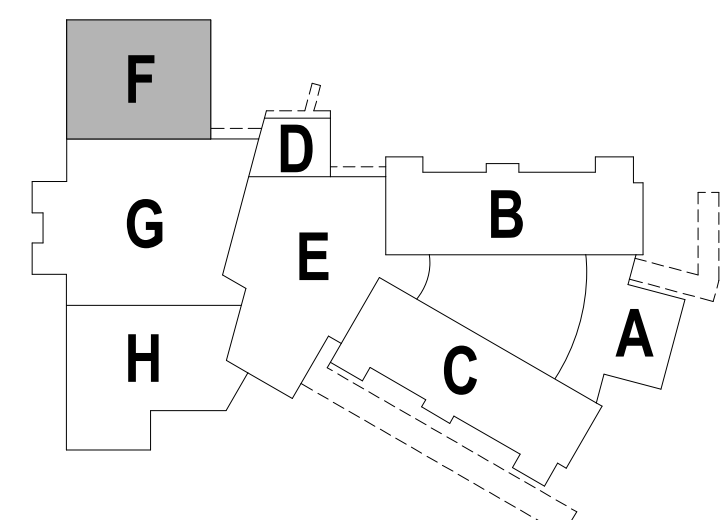
**ELECTRICAL KEYED NOTES**

- EXTERIOR LIGHT FIXTURE SALVAGED AFTER DEMOLITION. FIELD VERIFY MOUNTING HEIGHT WITH EXISTING WALL MOUNTED FIXTURES AND MATCH.
- CONNECT TO EXISTING EXTERIOR LIGHTING EMERGENCY CIRCUIT LEFT IN PLACE AFTER DEMOLITION. EXTEND CONDUCTORS/ CONDUIT WITH MATCHING SIZE TO NEW LOCATION. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 3500 W @ 277 V.
- LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH ABOVE ACCESSIBLE CEILING IN CORRIDOR / ANCILLARY SPACE DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE. GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
- LIGHT FIXTURE SALVAGED AFTER DEMOLITION. CLEAN AND RE-LAMP.
- DO NOT PENETRATE TOP OF CANOPY.



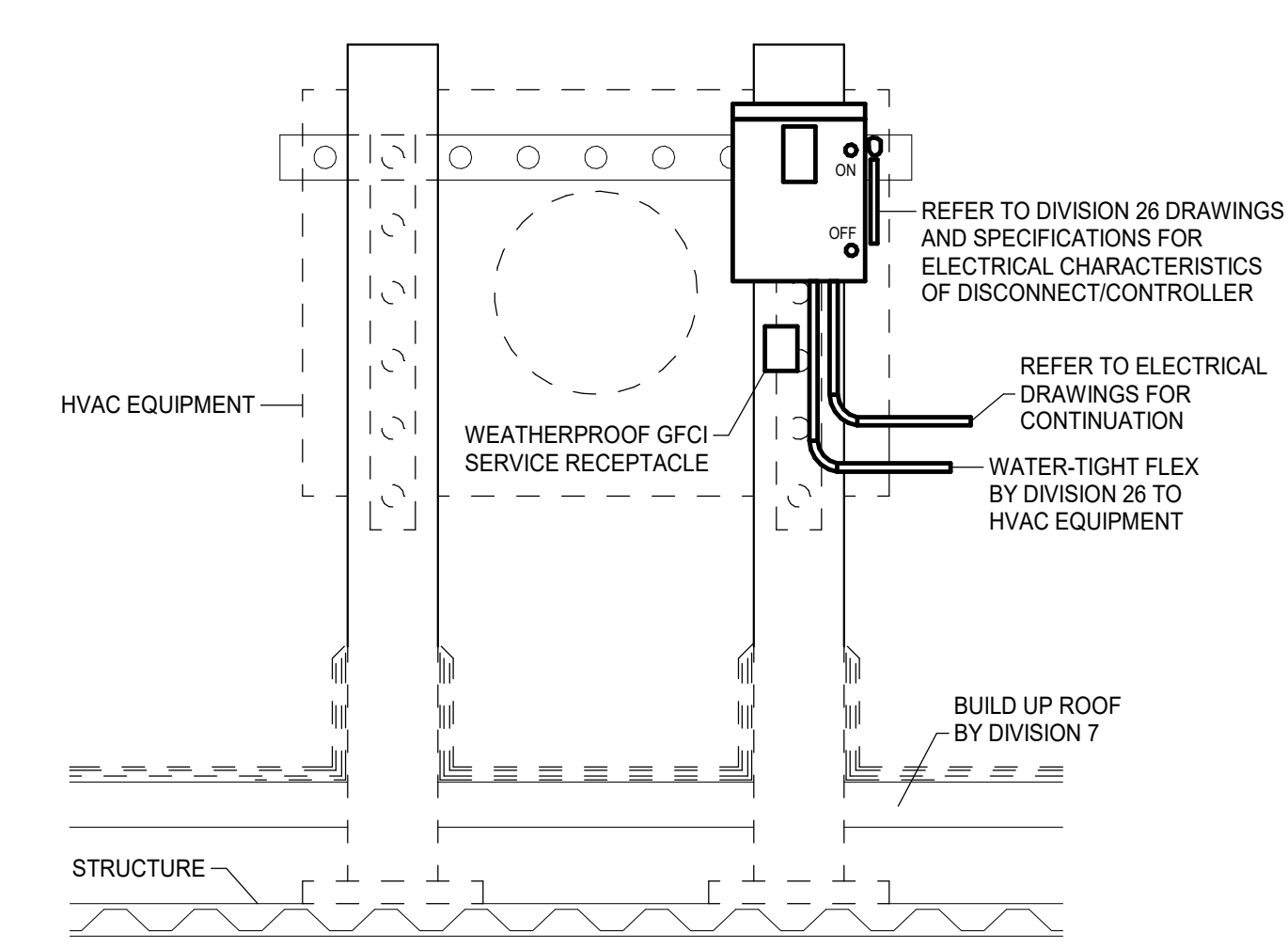
**1 ELECTRICAL LIGHTING 1ST FLOOR - AREA F**  
 Scale: 1/8" = 1'-0"

KEY PLAN:



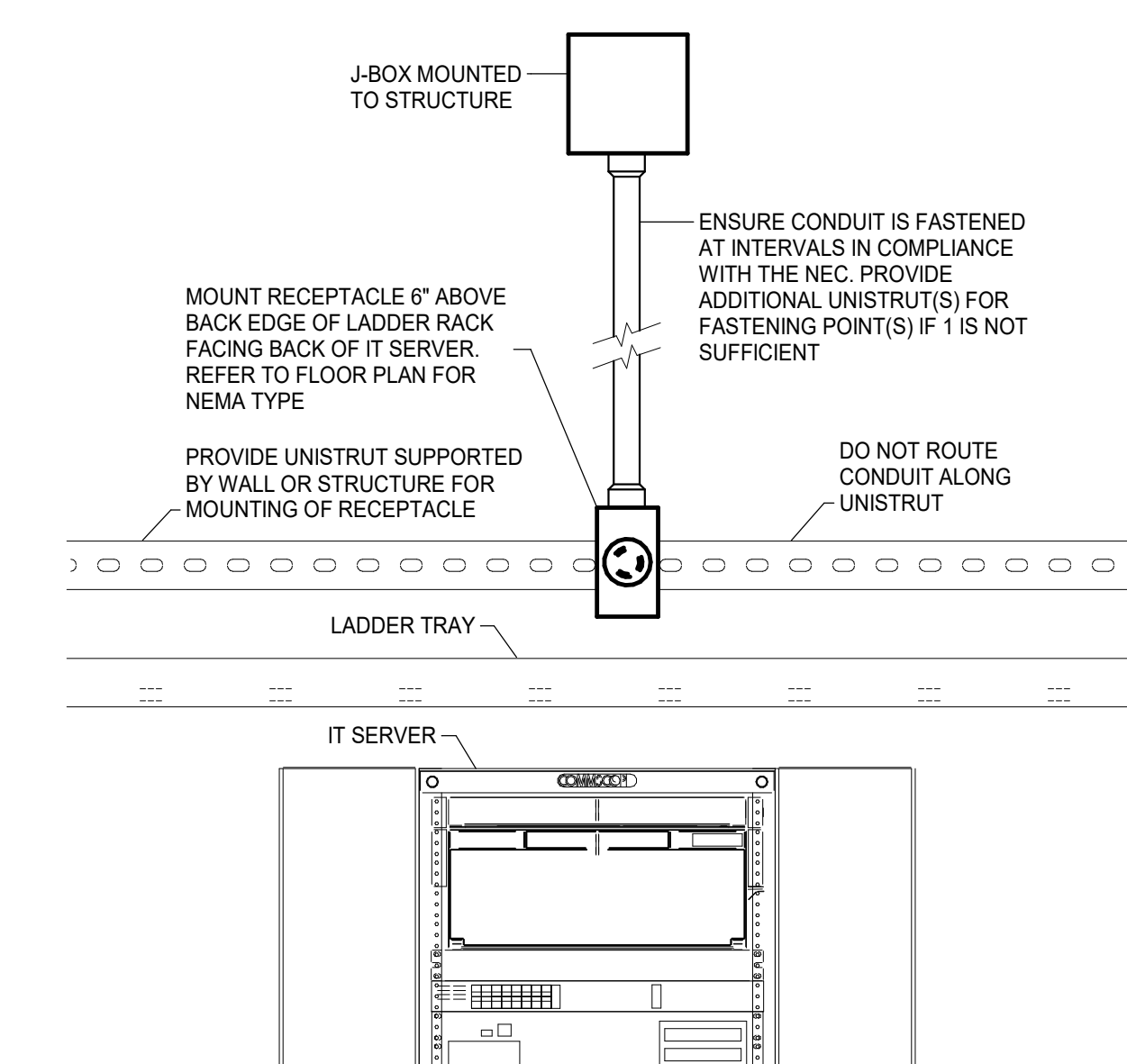
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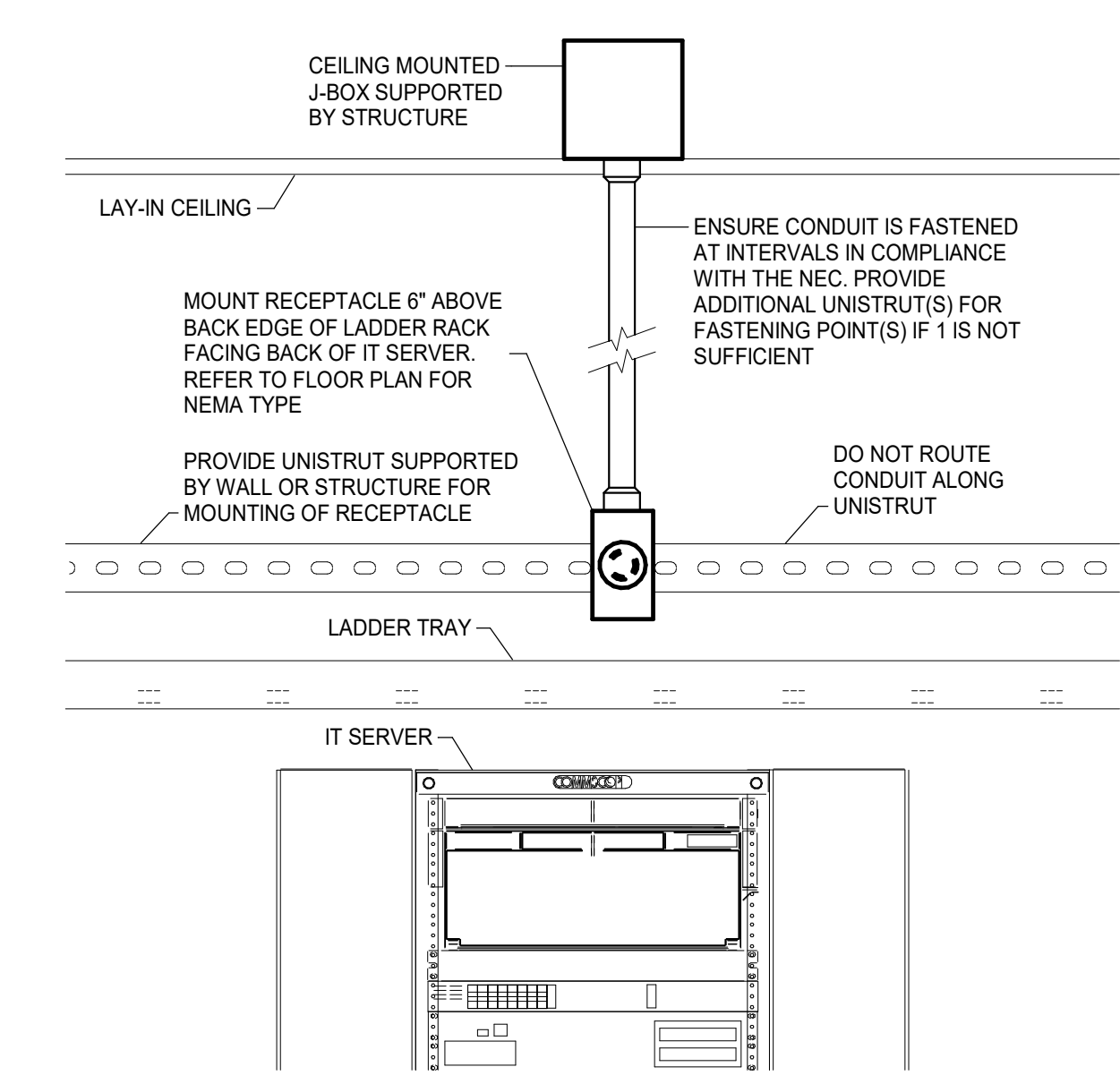


NOTES:  
 1. REFER TO ARCHITECTURAL, STRUCTURAL AND ROOFING DRAWINGS AND SPECIFICATIONS FOR HVAC EQUIPMENT SUPPORT CONSTRUCTION DETAILS.

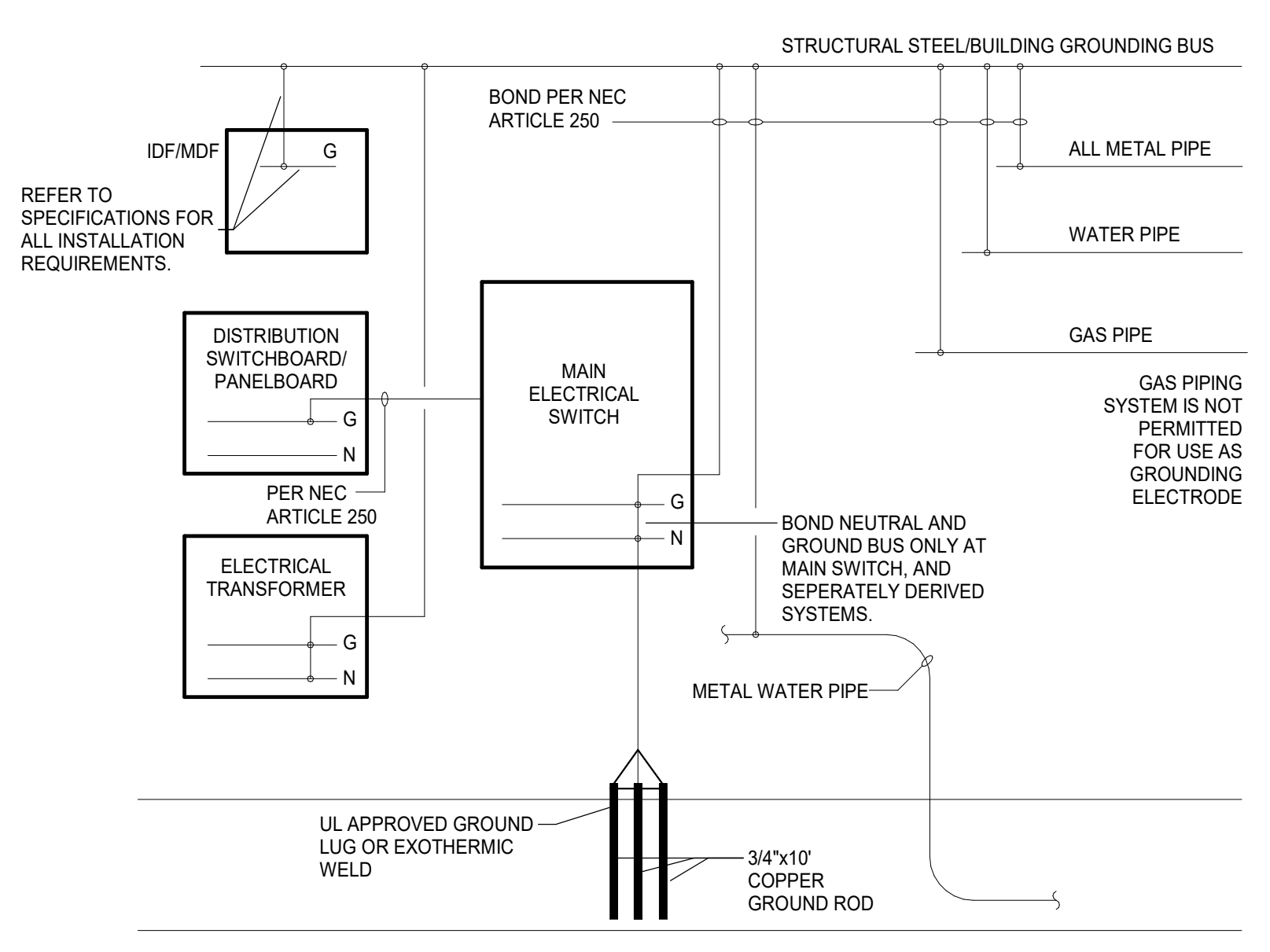
**4 ROOF ACCU SUPPORT DISCONNECT/RECEPTACLE**  
 Scale: NOT TO SCALE



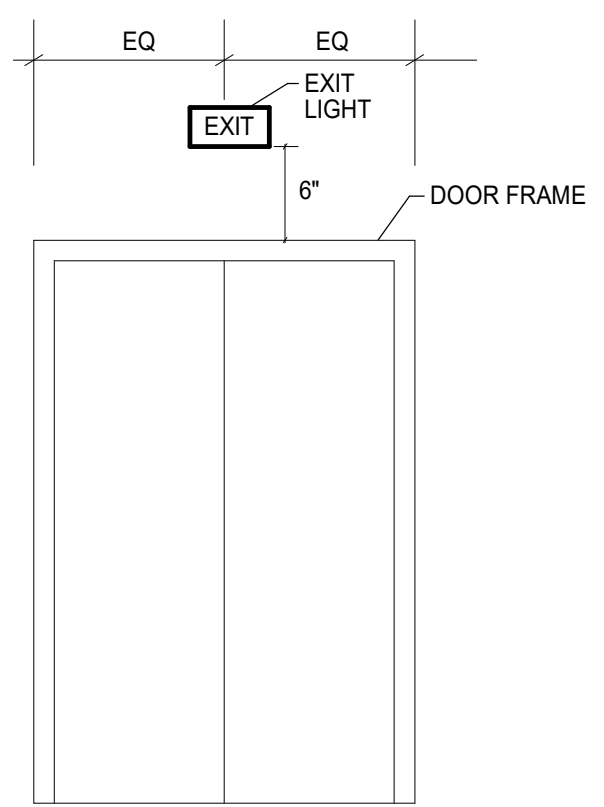
**3 EXPOSED CEILING IDF/MDF RACK RECEPTACLE**  
 Scale: NOT TO SCALE



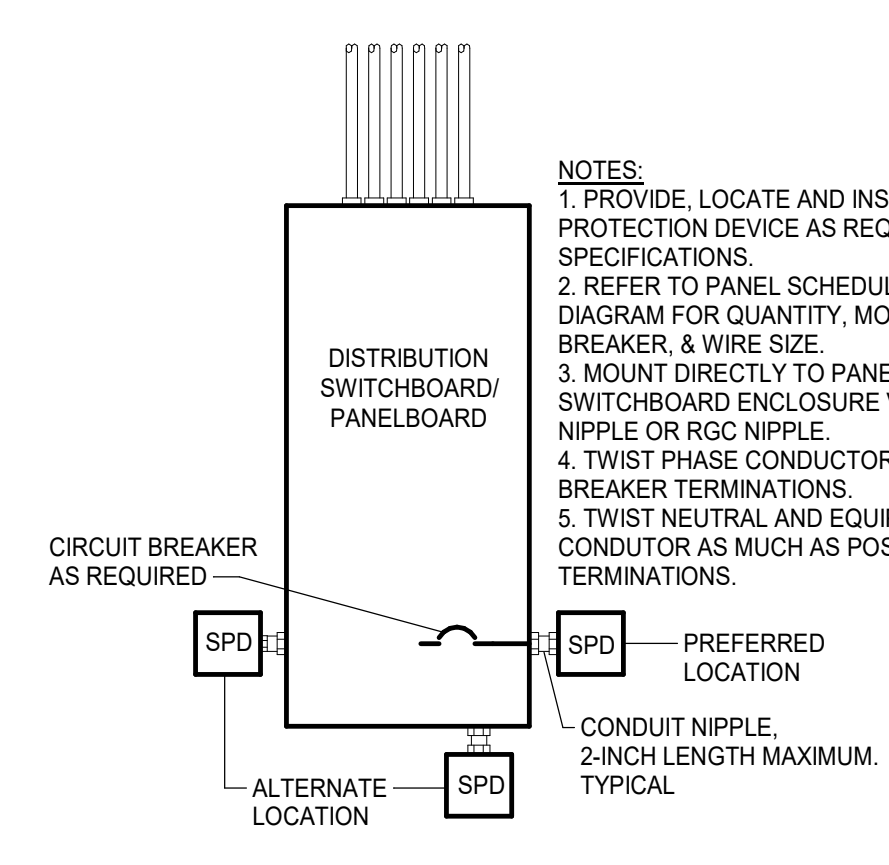
**2 LAY-IN CEILING IDF/MDF RACK RECEPTACLE**  
 Scale: NOT TO SCALE



**1 SYSTEM GROUNDING**  
 Scale: NOT TO SCALE



**6 EXIT SIGN LOCATION**  
 Scale: NOT TO SCALE



**5 SURGE PROTECTION DEVICE**  
 Scale: NOT TO SCALE

LIGHTING CONTROLS SCHEDULE					
Type	Sensor Operation	# of Lighting Zones	# of Plug Load Zones	# of Total Zones	Description
ER	-	-	-	-	LISTED UL924 EMERGENCY LOAD CONTROL RELAY, PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM.
ES	-	-	-	-	LISTED UL1008 EMERGENCY TRANSFER SWITCH PLENUM RATED, 0-10V COMPATIBLE, 16A MINIMUM.
RA	VACANCY - MANUAL ON / AUTO OFF 20 MINUTES TIMEOUT	1	0	1	ROOM CONTROLLER, 0-10V DIMMING.
RB	VACANCY - MANUAL ON / AUTO OFF 20 MINUTES TIMEOUT	1	0	1	ROOM CONTROLLER, NO DIMMING.
RC	OCCUPANCY - AUTO ON 50% / AUTO OFF 20 MINUTES TIMEOUT	1	0	1	ROOM CONTROLLER, 0-10V DIMMING.
RJ	NONE	1	0	1	ON/OFF SPRING WOUND MECHANICAL TIME SWITCH, 20 AMP, 12-HOUR WITH HOLD, WHERE MULTIPLE SWITCHES ARE USED, THESE SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.

1 PER IECC-2015, SECTION C405, AREAS / ROOMS WHERE AUTOMATIC SHUTOFF FOR LIGHTING WOULD ENDANGER OCCUPANT SAFETY ARE EXEMPT FROM AUTOMATIC CONTROLS.  
 2 PROVIDE PHOTOCELL WITHIN DAYLIGHT ZONE ONLY WHERE SHOWN ON FLOORPLANS.  
 3 REFER TO LIGHTING CONTROL DETAILS FOR TYPICAL INSTALLATION.  
 4 CONTRACTOR TO COORDINATE EXACT PROGRAMING OF TIME-SCHEDULE WITH OWNER REPRESENTATIVE.

LIGHTING FIXTURE SCHEDULE										
Type Mark	Manufacturer	Catalog Number	Model	Mounting	Lamp Type	CCT	CRI	Voltage	Load	Remarks
A1	METALUX	24CGT5540C		RECESSED	LED / 5,337 LUMENS	4000 K	80	277 V	46 W	LED 2x4' LUMINAIRE, ACRYLIC DIFFUSER, 0-10V DIMMING DRIVER, DLC CERTIFIED.
A2	METALUX	24CGT4540C		RECESSED	LED / 4,432 LUMENS	4000 K	80	277 V	38 W	LED 2x4' LUMINAIRE, ACRYLIC DIFFUSER, 0-10V DIMMING DRIVER, DLC CERTIFIED.
A4	METALUX	24CGT695L840		RECESSED	LED / 6,447 LUMENS	4000 K	80	277 V	53 W	LED 2x4' LUMINAIRE, ACRYLIC DIFFUSER, 0-10V DIMMING DRIVER, DLC CERTIFIED.
C1	METALUX	45NLED-LD5-345L-LN-UNV-L840-CD1-U / AYC-ChamSel / WGSNF-4FT		SURFACE / CHAIN HANG	LED / 3,500 LUMENS	4000 K	80	277 V	25 W	LED 4-FEET STRIP, ACRYLIC LENS, 0-10V DIMMING DRIVER, DLC CERTIFIED, PROVIDE WITH WIREGUARD.
C1E	METALUX	45NLED-LD5-345L-LN-UNV-EL14W-L840-CD1-U / AYC-ChamSel / WGSNF-4FT		SURFACE / CHAIN HANG	LED / 3,500 LUMENS	4000 K	80	277 V	25 W	LED 4-FEET STRIP, ACRYLIC LENS, 0-10V DIMMING DRIVER, DLC CERTIFIED, PROVIDE WITH WIREGUARD AND 90-MINUTES EMERGENCY BATTERY BACK-UP.
W4	ALW	LP3.55MWL34-L0W/8000K-V01-EXT-FX-XX-UNV		SURFACE	LED / 638 LFT	4000 K	80	277 V	25 W	3-INCH x 4-FEET LINEAR LED IN EXTRUDED ALUMINUM PROFILE WITH OPAL ACRYLIC LENS AND END FEED CONNECTION, WET LOCATION RATED, 0-10V DIMMING DRIVER, DLC CERTIFIED, PROVIDE SURFACE MOUNTING BRACKETS AND TIGHT SEAL ALL CANOPY PENETRATIONS.
XP	SURE-LITES	LPX6		SURFACE	LED	4000 K	80	277 V	3 W	SINGLE-FACED EXIT SIGN, WHITE HOUSING, RED LETTERING, PROVIDE CHEVRON DIRECTIONAL ARROWS PER PLANS OR AS DIRECTED BY AHJ.
XVP	SURE-LITES	LPXW6R1		SURFACE	LED	4000 K	80	277 V	3 W	SINGLE-FACED VANDAL RESISTANT EXIT SIGN, WHITE HOUSING, RED LETTERING, PROVIDE CHEVRON DIRECTIONAL ARROWS PER PLANS OR AS DIRECTED BY AHJ.

1 UNLESS OTHERWISE INDICATED ON THE SCHEDULE ABOVE, THE ARCHITECT/OWNER REPRESENTATIVE SHALL SELECT ALL FINISHES, COLORS, AND TRIMS.  
 2 APPROVED LIGHTING MANUFACTURERS:  
 SURFACE / RECESSED LIGHTING: SIGNIFY, LITHONIA, METALUX, AXIS, CURRENT, PINNACLE, H.E. WILLIAMS, CREE, NULITE, ALW  
 DOWN / TRACK LIGHTING: GOTHAM, LIGHTOLIER, PORTFOLIO, CREE, CURRENT, INDI, H.E. WILLIAMS  
 ARCHITECTURAL WALL/PACK: LITHONIA, VISIONAIRE, CURRRENT, GAROCO, MCGRAW EDISON, HUBBELL, LSI, LUMARK, LIGMAN  
 EXIT SIGNAGE: CHLORIDE, LITHONIA, EMERGI-LITE, DUAL-LITE, SURE-LITES, EVENLITE  
 3 REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHTING FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHTING FIXTURE SCHEDULE AND THE SPECIFICATIONS, THE GREATER QUANTITY OR HIGHER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.  
 4 THE ABOVE LIGHTING MANUFACTURERS SUBSTITUTION LIST DOES NOT GUARANTEE APPROVAL. APPROVAL WILL BE DETERMINED AFTER REVIEW OF SHOP DRAWING TO DETERMINE IF THE FIXTURE OR POLE SUBMITTED MEETS OR EXCEEDS THE DESIGN STANDARDS AND PERFORMANCE REQUIRED OF THE ACTUAL FIXTURE SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY SELECT SUBSTITUTIONS FOR THE SPECIFIED LIGHT FIXTURES FROM THE APPROVED LIGHTING MANUFACTURERS LISTED ABOVE. WHERE SPECIFIC OPTIONS / ACCESSORIES ARE SPECIFIED, THEY SHALL BE PROVIDED AS SPECIFIED WITH THE SUBSTITUTION.  
 5 DUE TO THE WIDE RANGE OF FIXTURE QUALITIES OFFERED BY EACH MANUFACTURER, THE APPROVED MANUFACTURERS SUBSTITUTION LIST IS NOT INTENDED TO INDICATE THAT ANY OR ALL MANUFACTURERS LISTED WILL HAVE SUITABLE SUBSTITUTIONS FOR THE LIGHT FIXTURES OR POLES SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. SHOP DRAWING DELAYS AS A RESULT OF INAPPROPRIATE SUBSTITUTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.  
 6 THE CONTRACTOR SHALL PROVIDE ALL HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL FIXTURES IN LOCATIONS AS ILLUSTRATED WITH MOUNTING METHODS DESIRED.  
 7 WHEN A UNIVERSAL (120-277V) VOLTAGE OPTION IS AVAILABLE, IT SHALL BE PROVIDED. OTHERWISE PROVIDE AS INDICATED IN THE SCHEDULE.  
 8 FOR ALL SUSPENDED FIXTURES, COORDINATE THE EXACT MOUNTING ELEVATION ABOVE FINISHED FLOOR WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE SUSPENSION HARDWARE IN LENGTHS AS REQUIRED.

**SYMBOL SCHEDULE**

SYMBOL	DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS)
LIGHTING (LETTER DENOTES TYPE - SEE LIGHT FIXTURE SCHEDULE)	
☐	LIGHT FIXTURE
☐	FIXTURE ON EMERGENCY CIRCUIT
○	DOWNLIGHT FIXTURE
○	LIGHT FIXTURE - WALL MOUNTED
●	DOWNLIGHT FIXTURE ON EMERGENCY CIRCUIT
⊗	LIGHT FIXTURE - WALL MOUNTED ON EMERGENCY CIRCUIT
⊗	EXIT LIGHT-CEILING MTD WITH DIRECTIONAL ARROWS AS REQUIRED
⊗	EXIT LIGHT-WALL MTD WITH DIRECTIONAL ARROWS AS REQUIRED
SWITCHES	
§	LINE VOLTAGE SINGLE POLE SWITCH
§2	LINE VOLTAGE 2-POLE SWITCH
§3	LINE VOLTAGE 3-WAY SWITCH
§4	LINE VOLTAGE 4-WAY SWITCH
§K	LINE VOLTAGE KEYSWITCH
§3K	LINE VOLTAGE KEYSWITCH 3-WAY SWITCH
§D	LINE VOLTAGE WALL DIMMER SWITCH, SIZE AND TYPE AS REQUIRED
§VD	LINE VOLTAGE WALL MOUNTED DIMMER SWITCH WITH VACANCY SENSOR, MANUAL ON / AUTO OFF
§V	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR, MANUAL ON / AUTO OFF
§OC	LINE VOLTAGE WALL MOUNTED SWITCH WITH VACANCY SENSOR, AUTO ON / AUTO OFF
§P	LINE VOLTAGE SWITCH WITH PILOT LIGHT
§MC	MOMENTARY CONTACT SWITCH
☐	PUSH BUTTON
§T	SPRING WOUND MECHANICAL TIME SWITCH, 20 AMP, 12-HOUR WITH HOLD, UNLESS NOTED OTHERWISE
ER	LISTED UL924 EMERGENCY LOAD CONTROL RELAY, 0-10V DIMMING COMPATIBLE
ES	LISTED UL1008 EMERGENCY TRANSFER SWITCH, 0-10V DIMMING COMPATIBLE
LOW VOLTAGE LIGHTING CONTROLS	
§R	LOW VOLTAGE LIGHTING CONTROLLER WALL SWITCH
§B	BACS TIMER LOCAL OVERRIDE SWITCH
◇	CEILING MOUNTED PHOTO SENSOR, HB= HIGH-BAY SENSOR
◇	CEILING MOUNTED VACANCY SENSOR, MANUAL ON / AUTO OFF, HB= HIGH-BAY SENSOR
◇	CEILING MOUNTED OCCUPANCY SENSOR, AUTO ON TO 100% / AUTO OFF, HB= HIGH-BAY SENSOR
◇X	LIGHTING CONTROLLER, X= DENOTES CONTROL SEQUENCE, REFER TO CONTROL SCHEDULE
RECEPTACLES AND OUTLETS	
○	SIMPLEX RECEPTACLE
⊕	DUPLEX RECEPTACLE
⊕	POWER POLE
⊕	125/250 VOLT, 1-PHASE, 3-WIRE, 20 AMPS, UNLESS NOTED OTHERWISE
⊕	DOUBLE DUPLEX IN 2-GANG BOX WITH SINGLE COVER PLATE
⊕	DOUBLE DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE IN 2-GANG BOX WITH SINGLE COVER PLATE
⊕	DUPLEX GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
⊕	CONCEALED SERVICE FLOOR BOX, DUPLEX RECEPTACLE OUTLET
⊕	CONCEALED SERVICE FLOOR BOX, DOUBLE DUPLEX RECEPTACLE OUTLET
⊕	CONCEALED SERVICE MULTI-ACCESS FLOOR BOX WITH WIRING DEVICES AS INDICATED ON DRAWINGS, SIZE TO MATCH DEVICE QUANTITIES
MISCELLANEOUS EQUIPMENT	
FA	FIRE ALARM CONTROL PANEL
AN	FIRE ALARM REMOTE ANNUCIATOR
T	TRANSFORMER FOR DOOR BELL/BUZZER
B	CHIME/BUZZER
G	REMOTE BLANK FACE GFCI DEVICE
MOTOR CONTROLLERS AND EQUIPMENT	
⊕	MOTOR, MAKE FINAL MOTOR CONNECTION
⊕	DISCONNECT SWITCH AS REQUIRED
⊕	COMBINATION MOTOR STARTER/DISCONNECT SWITCH AS REQUIRED
⊕	MOTOR STARTER AS REQUIRED
⊕M	MANUAL MOTOR SWITCH AS REQUIRED
⊕	PREWired DEVICE, MAKE ELECTRICAL FINAL CONNECTIONS
⊕	VARIABLE FREQUENCY DRIVE MOTOR CONTROLLER FURNISHED BY DIVISION 23, INSTALLED BY DIVISION 26
ELECTRICAL EQUIPMENT	
⊕	ELECTRICAL DISTRIBUTION OR PANELBOARD
⊕	DRY TYPE TRANSFORMER
CIRCUITING	
—	CONDUIT
---	CONDUIT BELOW FLOOR, SLAB, OR GRADE
⊕	34°C. UNLESS OTHERWISE NOTED, LONG HATCH, NEUTRAL, SHORT HATCH, PHASE, "Z" HATCH OR HOOK, GROUND, ARROW INDICATES HOMERUN
SUBSCRIPTS AND ABBREVIATIONS	
WP	INDICATES WEATHERPROOF
WG	INDICATES WIREGUARD
H	INDICATES HORIZONTAL
TL	INDICATES TWIST LOCK
NL	LIGHT FIXTURE ON NIGHT LIGHT CIRCUIT
E	INDICATES EXISTING TO REMAIN
REP	INDICATES REPLACE EXISTING WITH NEW
1-L	REFER TO ONE-LINE DIAGRAM
F	INDICATES WALL MOUNTED DEVICE
U	INDICATES TO PROVIDE COMBINATION USB/RECEPTACLE DEVICE
SR	SWITCH CONTROLLED RECEPTACLE. RECEPTACLE SHALL BE PERMANENTLY FACTORY MARKED AS CONTROLLED.
SPDX	X = L LOW EXPOSURE SPD; X = M MEDIUM EXPOSURE SPD; X = H HIGH EXPOSURE SPD; X = V VERY HIGH EXPOSURE SPD
•	NEXT TO ANY SYMBOL INDICATES FINAL ROUGH-IN FIELD COORDINATION BY CONTRACTOR WITH ARCHITECTURAL MILLWORK DRAWINGS AND OTHER TRADES
GENERAL NOTES: -ALL EXTERIOR BUILDING ELECTRICAL EQUIPMENT TO BE WEATHERPROOF NEMA-4X MINIMUM.	

TECHNOLOGY LEGEND - 27 10 00				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
#	WALL MOUNTED NETWORK OUTLET DI: NUMBER OF DATA DROPS IN OUTLET AP: WIRELESS ACCESS POINT	+18" AFF UNLESS OTHERWISE NOTED	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
W	COMMUNICATIONS OUTLET	FIELD COORDINATE	FIELD COORDINATE	
W	WALL MOUNTED NETWORK OUTLET	+4" AFF	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
B	WALL MOUNTED BOX FOR FUTURE USE.	+18" AFF UNO	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
DF	FLOOR MOUNTED NETWORK OUTLET	N/A	COORDINATE WITH ELECTRICAL CONTRACTOR	FINISHED HARDWARE PROVIDED BY DIV 27
+	CEILING MOUNTED NETWORK OUTLET AP: WIRELESS ACCESS POINT DI: NETWORK OUTLET	ABOVE CEILING	CEILING BRACKET WITH BISCUIT BLOCK	

NOTES:  
 1. #G INDICATES BACK BOX SIZE.  
 2. #C INDICATES CONDUIT SIZE.  
 3. UNO UNLESS NOTED OTHERWISE.  
 4. CONDUIT STUB UP AND SLEEVES SHALL HAVE A SOLID UNOUT PLASTIC PROTECTIVE BUSHING.  
 5. NO CONDUITS SHALL EXCEED FOR 40% MAXIMUM FILL RATIO. CONTRACTOR TO PROVIDE ADDITIONAL CONDUITS REQUIRED.

ACCESS CONTROL LEGEND - 28 10 00 & 28 10 00.05				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
[ACP]	ACCESS CONTROL SYSTEM CONTROL PANEL	+60" AFF TO CENTER	AS REQUIRED	COORDINATE POWER NOTE #4
[CR]	ACCESS CONTROL PROXIMITY CARD READER. DEFAULT SYMBOL INDICATES WALL MOUNTED M: INDICATES MULLION MOUNTED READER	+42" A.F.F.	1-G, 3/4" C	
[CR]	DOOR MOUNTED ACCESS CONTROL PROXIMITY CARD READER THAT IS INTEGRATED INTO THE DOOR HARDWARE	+42" AFF	N/A	
[DS]	2-WAY AUDIO/VIDEO INTERCOM DOOR STATION. DEFAULT INDICATES WALL MOUNTED M: INDICATES MULLION MOUNTED DEVICE	+42" AFF	*W: 1-G, 3/4" C *M: 3/4" C	COORDINATE POWER NOTE #4
[DS]	DOOR MOUNTED, 2-WAY AUDIO/VIDEO INTERCOM DOOR STATION	+42" AFF FIELD COORDINATE		COORDINATE POWER NOTE #4
[MS]	2-WAY AUDIO/VIDEO INTERCOM MASTER STATION	DESK MOUNTED UNO		COORDINATE POWER NOTE #4
[DR]	DOOR RELEASE BUTTON	COORDINATE WITH GC	1-G, 3/4" C	
[REX]	PIR MOTION REQUEST TO EXIT DEVICE	FLUSH MOUNTED UNO	N/A	N/A
[DP]	DOOR PROP ALARM	CEILING MOUNTED UNO	N/A	N/A
[DC]	DPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR	FLUSH MOUNTED IN DOOR FRAME	N/A	PROVIDED BY ACS CONTRACTOR
[SS]	NETWORK SPREN STROBE	CEILING MOUNTED UNO		NOTE #4

NOTES:  
 1. #G INDICATES BACK BOX SIZE.  
 2. #C INDICATES CONDUIT SIZE.  
 3. UNO UNLESS NOTED OTHERWISE.  
 4. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK.

SUBSCRIPTS AND ABBREVIATIONS	
TEXT	DESCRIPTION
WP	DEVICE SHALL BE WEATHER PROOF AND RATED FOR EXTERIOR CONDITIONS
•	FIELD COORDINATE ELEVATION.
AFF	ABOVE FINISHED FLOOR
UC	DEVICE IS TO BE MOUNTED ON THE UNDERSIDE OF THE ELEVATED CANOPY
WM	DEVICE IS TO BE WALL MOUNTED.
WG	WIRE GUARD TO BE PROVIDED AND INSTALLED TO PROTECT ASSOCIATED DEVICE.

RESPONSIBILITY MATRIX			
SCOPE ITEM	RESPONSIBILITY	NOTES	
<b>COMMUNICATIONS - DIVISION 27</b>			
CATEGORY 6/6A STRUCTURED CABLING SYSTEM (SCS)	OFDI	CFDI	OFDI
FLAT PANEL DISPLAYS	✓		
FLAT PANEL DISPLAY MOUNTS	✓		
INTERACTIVE DISPLAYS	✓		
INTERACTIVE DISPLAY MOUNTS	✓		
BUILDING INTERCOMPA, BELL, AND CLOCK SYSTEM	✓		
--NETWORK SWITCHES			
NETWORK EQUIPMENT			
-- MD/IDF NETWORK EQUIPMENT	✓		
-- VOIP TELEPHONES	✓		
-- WIRELESS ACCESS POINTS	✓		
-- UNINTERRUPTIBLE POWER SUPPLIES (UPS)	✓		
RACEWAY CONDUIT, BACK BOXES, ETC.	✓		SEE NOTE 1.
LOW VOLTAGE RACEWAY, SLEEVES	✓		SEE NOTE 1.
STRUCTURED CABLING RACEWAY, SLEEVES	✓		SEE NOTE 5.
ELECTRICAL POWER	✓		SEE NOTE 1.
<b>LIFE SAFETY AND SECURITY - DIVISION 28</b>			
ACCESS CONTROL SYSTEMS(ACS)	OFDI	CFDI	OFDI
INTRUSION DETECTION SYSTEM	✓		
DOOR ACCESS VIDEO INTERCOM SYSTEM	✓		
VIDEO SURVEILLANCE SYSTEM (VSS)			
--VSS SERVERS	✓		
--VSS CAMERAS	✓		
--VSS PROGRAMMING	✓		
--VSS CABLING	✓		SEE NOTE 5.
FIRE ALARM SMOKE DETECTION WITH VOICE EVACUATION	✓		
RACEWAY CONDUIT, BACK BOXES, SLEEVES, ETC.	✓		SEE NOTE 1.
ELECTRICAL POWER	✓		SEE NOTE 1.
OFDI - OWNER FURNISHED AND OWNER INSTALLED CFDI - CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED OFDI - OWNER FURNISHED AND CONTRACTOR INSTALLED			
RESPONSIBILITY MATRIX NOTES: 1. BY DIVISION 26. 2. BY DIVISION 27. 3. BY DIVISION 11. 4. IF SYSTEM REQUIRES NETWORK SWITCH IT SHALL BE OFDI. CONTRACTOR TO COORDINATE WITH OWNER. 5. SLEEVES FOR STRUCTURED CABLING WILL BE OWNER FURNISHED, OWNER INSTALLED. NOT TO BE USED BY ANY OTHER TRADE.			

AUDIO/VIDEO LEGEND - 27 41 16.10				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
[WMP]	WALL MOUNTED PROJECTOR AUDIOVISUAL OUTPUT OUTLET	REFERENCE FLOOR PLANS	4 11/16"x4 11/16"x2 1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25" C	NOTE #5
[CMP]	CEILING MOUNTED PROJECTOR AUDIOVISUAL OUTPUT OUTLET	CEILING MOUNTED	N/A	NOTE #5
[AV-1]	WALL MOUNTED AUDIO/VIDEO INPUT OUTLET	+18" AFF UNO	4 11/16"x4 11/16"x2 1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25" C	
[FSD-1]	WALL MOUNTED FLAT SCREEN DISPLAY AUDIOVISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	NOTE #5
[FSD-2]	WALL MOUNTED FLAT SCREEN DISPLAY AUDIOVISUAL OUTPUT OUTLET ASSOCIATED WITH AV-1 INPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"x4 11/16"x2 1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25" C	NOTE #5
[VD]	INTERACTIVE VIDEO DISPLAY AUDIOVISUAL OUTPUT OUTLET	REFERENCE FLOOR PLAN	4 11/16"x4 11/16"x2 1/8" BACK BOX WITH DOUBLE GANG RING, TWO(2) 1.25" C	NOTE #5
[SP]	AV CONTROL PANEL	+48" AFF TO TOP	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[IS]	LOCAL INSTRUCTIONAL SPACE PRESENTATION SPEAKER	CEILING	CONTRACTOR PROVIDED CEILING BOX	COORDINATE POWER WITH EC
[CX]	STREAMING CAMERA	CEILING UNO	N/A	NOTE #5

NOTES:  
 1. #G INDICATES BACK BOX SIZE.  
 2. #C INDICATES CONDUIT SIZE.  
 3. UNO UNLESS NOTED OTHERWISE.  
 4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.  
 5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK.

VIDEO SURVEILLANCE LEGEND - 28 20 00				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
[WCC]	WALL CORNER MOUNT 4-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	NOTE #5
[WCC]	CEILING MOUNTED 4-SENSOR CAMERA	CEILING		NOTE #5
[WCC]	2-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	NOTE #5
[WCC]	1-SENSOR CAMERA	REFERENCE FLOOR PLANS	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[VRS]	VIDEO RECORDING SERVER			
[SMU]	VIDEO SURVEILLANCE MAIN UNIT	ABOVE CEILING		NOTE #5

NOTES:  
 1. #G INDICATES BACK BOX SIZE.  
 2. #C INDICATES CONDUIT SIZE.  
 3. UNO UNLESS NOTED OTHERWISE.  
 4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.  
 5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK.

SUBSCRIPTS LEGEND - EXISTING DEVICES	
TEXT	DESCRIPTION
'E'	EXISTING TO REMAIN
'D'	DEVICE IS EXISTING AND IS TO BE REMOVED. CONTRACTOR TO REMOVE THE DEVICE AND RETURN TO OWNER.
'R'	REMOVE EXISTING DEVICE AND RELOCATE TO A LOCATION INDICATED ON THE DRAWINGS.

- NOTES TO CONTRACTOR**
- EVERY SYMBOL SHOWN ON LEGEND MAY NOT APPEAR ON DRAWINGS.
  - SYSTEM INSTALLERS SHALL COORDINATE LOCATIONS AND CONNECTIONS WITH THE PROJECTS ELECTRICAL CONTRACTOR.
  - CONTRACTOR TO PROVIDE PROPERLY GROUNDED LIGHTING PROTECTION ON ALL CABLING ENTERING AND EXITING THE BUILDING.

- TECH DEMO PLAN GENERAL NOTES**
- CONTRACTOR SHALL PROVIDE NEW CEILING TILES IN INSTANCES WHERE CEILING DEVICES ARE REMOVED, REPLACED OR ADDED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT ON CORRECT MANUFACTURER AND MODEL PRIOR TO REMOVAL OF EXISTING TILE.
  - CONTRACTOR SHALL HAVE EACH LOW VOLTAGE SYSTEM TESTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SYSTEMS SHALL INCLUDE BUT NOT BE LIMITED TO:
    - FIRE ALARM
    - INTERCOM
    - STRUCTURED CABLING
    - INTRUSION DETECTION
    - ACCESS CONTROL
    - AUDIO VIDEO
    - VIDEO SURVEILLANCE
 TESTING SHALL INCLUDE THE FUNCTIONALITY OF ALL FIELD DEVICES AND EQUIPMENT. ANY FAILURES OR ITEMS FOUND NOT TO BE FUNCTIONING TO SPECIFICATION, SHALL BE REPORTED PRIOR TO CONSTRUCTION. ANY ITEMS FOUND TO BE IMPROPERLY OR NON-FUNCTIONING UPON THE COMPLETION OF THE PROJECT, SHALL BE REPLACED AND/OR REPAIRED, BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE PROJECT OR THE OWNER.
  - CONTRACTOR SHALL REMOVE ANY DEVICES WHERE CONSTRUCTION OCCURS TO PREVENT POSSIBLE DAMAGE TO THE DEVICE. REMOVAL OF ANY DEVICES WHICH SUPPORT USER CONNECTION OR OTHER SYSTEMS, SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVAL AND/OR TAKING OFF LINE. REMOVAL SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING DEVICES AND ASSOCIATED SUPPORT INFRASTRUCTURE:
    - FIRE ALARM DEVICES
    - INTERCOM DEVICES
    - WIRELESS ACCESS POINTS
    - TELEPHONES
    - VIDEO SURVEILLANCE CAMERAS
    - INTRUSION DETECTION DEVICES
    - ACCESS CONTROL DEVICES
    - VIDEO PROJECTION DEVICES
    - VIDEO DISPLAY DEVICES
 ANY DEVICES, NOT BEING REINSTALLED, SHALL BE RETURNED TO THE OWNER.
  - CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS, OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN, SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE IN PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.
  - ANY INDIVIDUAL THAT WILL BE REMOVING, RELOCATING, REINSTALLING, AND/OR TAMPERING WITH ANY EXISTING DEVICES, SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SPECIFIC SYSTEM AND/OR LICENSED AS REQUIRED BY THE STATE TO PERFORM WORK ON THE SYSTEM. THE INDIVIDUAL SHALL BE A FULL-TIME EMPLOYEE OF THE FIRM CONTRACTED TO CONDUCT SUCH WORK ON THE PROJECT AND THAT FIRM SHALL ALSO HOLD ANY CERTIFICATIONS AND/OR LICENSES REQUIRED TO CONDUCT WORK ON THE SPECIFIC SYSTEM.
  - ANY INDIVIDUAL/FIRM THAT WILL BE REMOVING, RELOCATING, REINSTALLING, OR TAMPERING WITH IN ANY DEVICES, SHALL BE LICENSED BY THE STATE, AS APPLICABLE, AND CERTIFIED BY THE MANUFACTURER OF THE SYSTEM.
  - ALL CABLING ASSOCIATED WITH DEVICES THAT ARE TO BE DEMOLISHED, SHALL BE REMOVED FROM THE DEVICE LOCATION TO THE CABLES POINT OF ORIGIN. NO CABLE SHALL BE ABANDONED IN PLACE.
  - ALL EXISTING DEVICES SHOWN ARE EXISTING TO REMAIN. CONTRACTOR TO REMOVE EXISTING DEVICES DURING CONSTRUCTION AND REINSTALL THE DEVICE IN THE SAME LOCATION, UNLESS NOTED OTHERWISE. WIRELESS ACCESS POINTS SHALL BE REMOVED AND REINSTALLED BY OWNER.
  - REFERENCE EXISTING DEVICE SUBSCRIPT LEGEND ON THE NOTES AND LEGENDS SHEET.
  - TOPCAT LIGHTSPEED LOCAL SOUND SPEAKERS SHALL BE BAGED AND TAGGED AND SUSPENDED IN THE CEILING DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER TO GET THE WARRANTY. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER TO NOT VOID THE WARRANTY. TOPCAT LIGHTSPEED SPEAKER BARS STATION AND ANY OTHER SYSTEM COMPONENTS SHALL BE TAGGED BY CONTRACTOR WITH ROOM NAME AND NUMBER AND BE REINSTALLED IN THE SAME ROOM. THE OTHER SYSTEM COMPONENTS SHALL BE TAGGED BY CONTRACTOR WITH ROOM NAME AND NUMBER AND BE REINSTALLED IN THE SAME ROOM IT WAS REMOVED FROM.
  - CONTRACTOR TO COORDINATE WITH CFIDS TECHNOLOGY DEPARTMENT PRIOR TO CONSTRUCTION ON WHICH DEVICES ARE TO BE REMOVED BY THE OWNER'S VENDOR IN ORDER TO PREVENT VOID OF WARRANTY.
  - ALL DEMO DEVICES WITH 'D' SUBSCRIPT SHALL DISCONNECT AND REMOVE EXISTING WIRING DEVICE BACK TO ORIGIN. PATCH WALL TO MATCH EXISTING.

LOCAL SOUND SYSTEM LEGEND - 27 41 16.20				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
[S]	LOCAL SOUND SYSTEM SPEAKER P: POLE MOUNTED SPEAKER	CEILING MOUNT UNO	CONTRACTOR PROVIDED BACK BOX OR 4"x4"x2 1/8" J BOX WITH COVER, 1" C	
[ESC]	LOCAL SOUND SYSTEM CONTROL PLATE	+48" AFF TO TOP	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[MI]	MICROPHONE INPUT	+18" AFF UNO	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[MA]	COMBINATION OUTLET CONSISTING OF ONE (1) MICROPHONE INPUT AND ONE (1) AUXILIARY INPUT	+18" AFF UNO	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[AI]	3.5MM STEREO AUDIO AUXILIARY INPUT	+18" AFF UNO	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[H]	HANGING MICROPHONE	CEILING MOUNT	N/A	
[ABM]	AUXILIARY INPUT AND BLUETOOTH MIXER	+48" AFF TO TOP	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[RACK]	VENUE SPECIFIC LOCAL SOUND SYSTEM HEAD END RACK	WALL MOUNT UNO	N/A	
[WA]	WIRELESS ANTENNA	WALL MOUNT UNO	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[ALA]	ASSISTED LISTENING ANTENNA	WALL MOUNT UNO	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[SUB]	SUBWOOFER	CEILING MOUNT UNO		

NOTES:  
 1. #G INDICATES BACK BOX SIZE.  
 2. #C INDICATES CONDUIT SIZE.  
 3. UNO UNLESS NOTED OTHERWISE.  
 4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.  
 5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK.

INTRUSION LEGEND - 28 31 00				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
[IDP]	INTRUSION DETECTION SYSTEM CONTROL PANEL	+60" AFF	TWO(2)- 1" C TO CONTRACTOR PROVIDED BACK BOX	COORDINATE POWER WITH EC. NOTE #5
[IDP]	INTRUSION DETECTION SYSTEM KEYPAD	+48" AFF TO TOP	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[M]	CEILING MOUNTED MOTION DETECTOR	CEILING		
[M]	WALL MOUNTED MOTION DETECTOR L/R: LONG RANGE	REFERENCE FLOOR PLAN	N/A	
[M]	CEILING MOUNTED GLASS BREAK DETECTOR	CEILING	N/A	
[DC]	SPDT MAGNETIC DOOR CONTACT/DOOR POSITION SENSOR	FLUSH MOUNTED IN DOOR FRAME	N/A	DEVICE PROVIDED BY ACS CONTRACTOR
[SDC]	SURFACE MOUNT MAGNETIC DOOR CONTACT	SURFACE MOUNTED ON DOOR FRAME	N/A	
[ODC]	OVERHEAD DOOR MOUNT MAGNETIC DOOR CONTACT	SURFACE MOUNTED ON DOOR FRAME	N/A	
[DB]	DURESS PANIC BUTTON	UNDER DESK UNO	N/A	

NOTES:  
 1. #G INDICATES BACK BOX SIZE.  
 2. #C INDICATES CONDUIT SIZE.  
 3. UNO UNLESS NOTED OTHERWISE.  
 4. REFERENCE DIVISION 28 SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS.  
 5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK.

FIRE ALARM - 28 46 00	
SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM CONTROL
[FAA]	FIRE ALARM ANNUNCIATOR PANEL

NOTES:  
 1. FIRE ALARM SYSTEM IS PERFORMANCE BASED PER SPECIFICATIONS. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.  
 2. A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

INTERCOM LEGEND - 27 50 00				
SYMBOL	DESCRIPTION	ELEVATION	BACK BOX/RACEWAY	NOTES
[ICS]	INTERCOM COMMUNICATIONS SYSTEM HEAD END UNIT	FLOOR MOUNTED	COORDINATE WITH EC	COORDINATE POWER WITH EC.
[S]	CEILING MOUNT INTERCOM SPEAKER, LAY-IN	CEILING	CONTRACTOR PROVIDED	
[S]	CEILING MOUNT INTERCOM SPEAKER, HARD	CEILING	CONTRACTOR PROVIDED	
[S]	WALL MOUNT INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
[S]	WALL MOUNT EXTERIOR INTERCOM SPEAKER	+10" AFF UNO	CONTRACTOR PROVIDED	
[S]	PENDANT MOUNT INTERCOM SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	
[S]	SURFACE MOUNT INTERCOM SPEAKER, MOUNT TO STRUCTURE	CEILING	CONTRACTOR PROVIDED	
[S]	CEILING MOUNTED EXTERIOR INTERCOM SPEAKER	CEILING	CONTRACTOR PROVIDED	
[S]	IP BASED SPEAKER: *P TO BE REPLACED WITH S, S2, S3, S4 INDICATING THE SPECIFIC TYPE OF SPEAKER	REFERENCE FLOOR PLANS	CONTRACTOR PROVIDED	NOTE #5
[VC]	WALL MOUNTED VOLUME CONTROL	+48" AFF	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[CB]	INTERCOM CALL BUTTON	+48" AFF	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[C]	SINGLE FACE CLOCK	REFERENCE FLOOR PLANS	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[C]	DOUBLE FACE CLOCK	REFERENCE FLOOR PLANS	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[RPS]	REMOTE PROGRAM SOURCE	DESK TOP	COORDINATE WITH EC	NOTE #5
[AS]	ADMINISTRATIVE CALL STATION	DESK TOP	N/A	NOTE #5
[LD]	LOCKDOWN BUTTON	REF. DETAILS	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	
[LMB]	LARGE MESSAGE BOARD, POE+ POWERED	REFERENCE FLOOR PLANS	4"x4"x2 1/8" BACK BOX WITH 1-G MUD RING, 1" C	NOTE #5

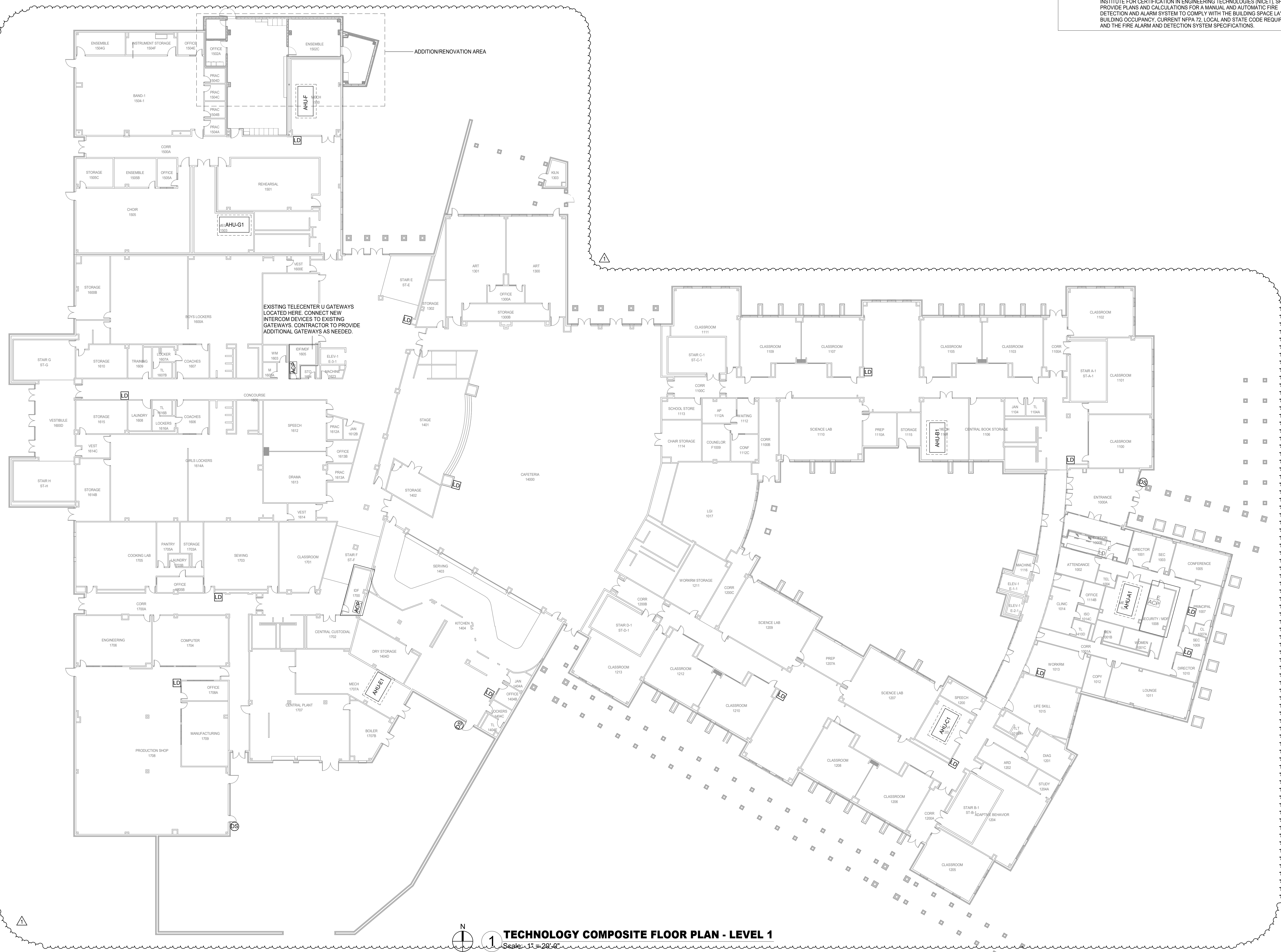
NOTES:  
 1. #G INDICATES BACK BOX SIZE.  
 2. #C INDICATES CONDUIT SIZE.  
 3. UNO UNLESS NOTED OTHERWISE.  
 4. THE SYSTEM INTEGRATOR SHALL COORDINATE ALL BOX AND CONDUIT SIZE REQUIREMENTS PRIOR TO ROUGH-IN BY THE PROJECTS ELECTRICAL CONTRACTOR.  
 5. PROVIDE AND INSTALL ONE (1) CATEGORY CABLE TO CONNECT DEVICE TO NETWORK.



**FIRE ALARM**

A FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 46 00, CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICE1), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

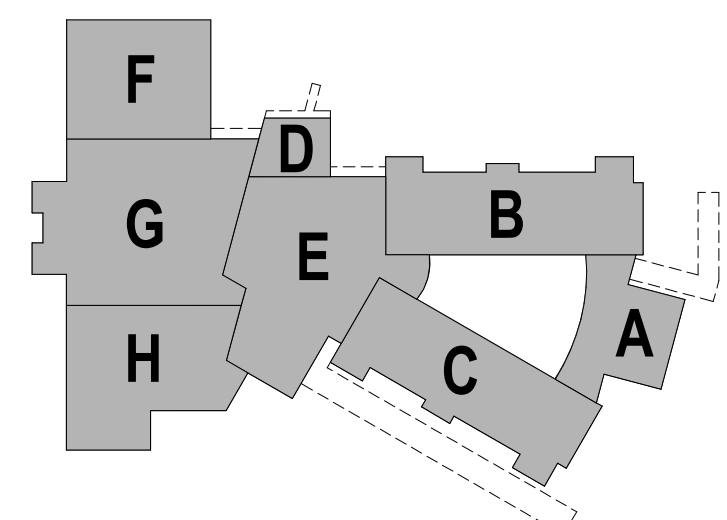


EXISTING TELECENTER U GATEWAYS LOCATED HERE, CONNECT NEW INTERCOM DEVICES TO EXISTING GATEWAYS. CONTRACTOR TO PROVIDE ADDITIONAL GATEWAYS AS NEEDED.

ADDITION/RENOVATION AREA

**TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 1**  
 Scale: 1" = 20'-0"

KEY PLAN:



**ANTHONY, HOPPER & KAHLA MS RENOVATIONS**  
**ANTHONY MIDDLE SCHOOL**  
 10215 Greenhouse Rd., Cypress TX 77433  
 CFISD PROJECT NO: 24-02-5750-R-RFP

Revision / Submission	Date
T - ADDENDUM #02 - 01/16/25	

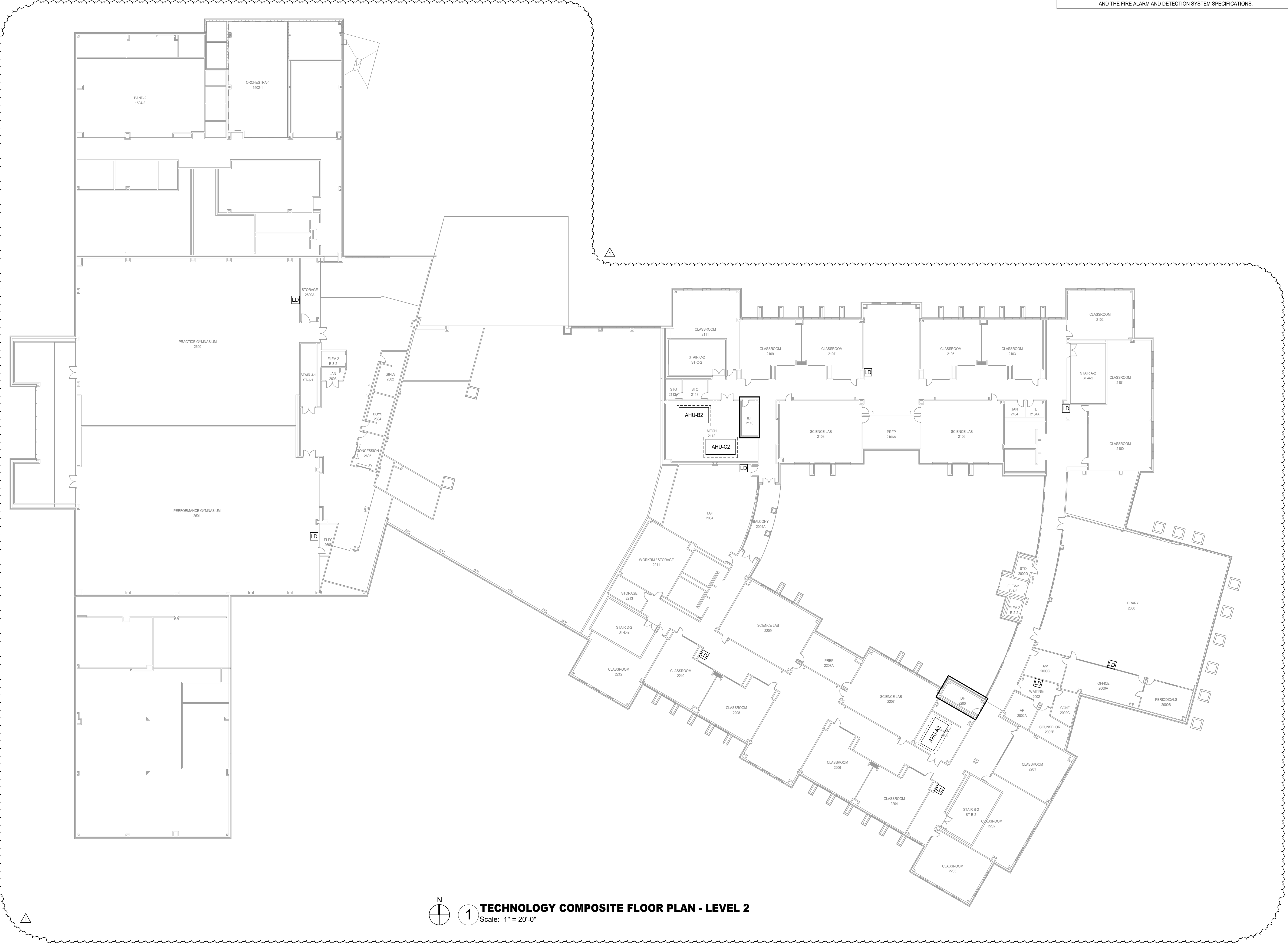
Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn By: NY  
**TECHNOLOGY**  
 COMPOSITE 1ST FLOOR  
 PLAN

**T1.01**

**FIRE ALARM**

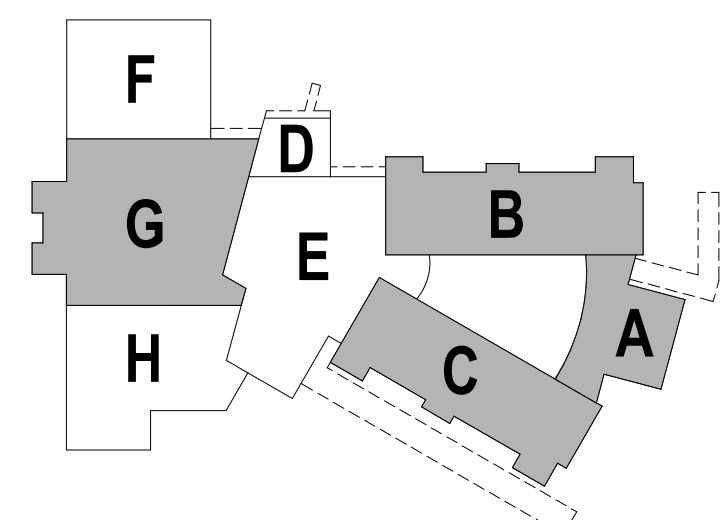
A FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 46 00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.



**1 TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 2**  
 Scale: 1" = 20'-0"

KEY PLAN:



**ANTHONY, HOPPER & KAHLA MS RENOVATIONS**  
**ANTHONY MIDDLE SCHOOL**  
 10215 Greenhouse Rd., Cypress TX 77433  
 CFISD PROJECT NO: 24-02-5750-R-RFP

Revision / Submission	Date
T - ADDENDUM #02	01/16/25

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn By: NY  
**TECHNOLOGY**  
**COMPOSITE 2ND FLOOR**  
**PLAN**

**T1.02**

**FIRE ALARM**

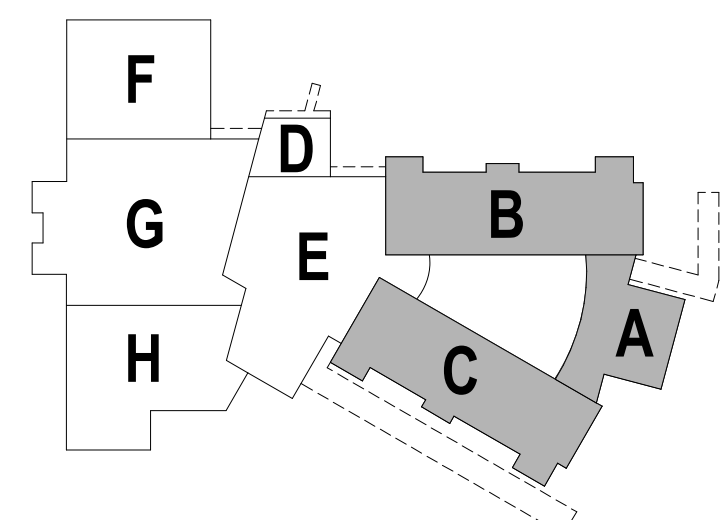
A FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28.48.00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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**1 TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 3**  
 Scale: 1" = 20'-0"

**KEY PLAN:**



**ANTHONY, HOPPER & KAHLA MS RENOVATIONS**  
**ANTHONY MIDDLE SCHOOL**  
 10215 Greenhouse Rd., Cypress TX 77433  
 CFISD PROJECT NO: 24-02-5750-R-RFP

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn By: NY  
**TECHNOLOGY**  
**COMPOSITE 3RD FLOOR**  
**PLAN**  
**T1.03**

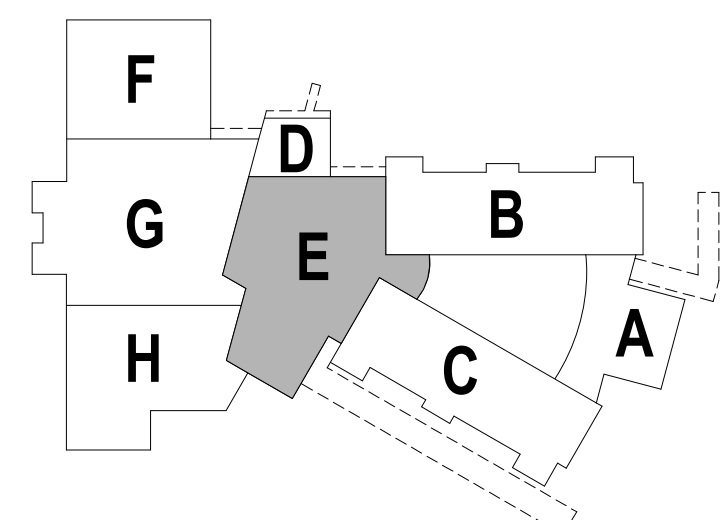


- TECHNOLOGY PLAN GENERAL NOTES**
- A COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.
  - B COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT (IF APPLICABLE) PRIOR TO ROUGH-IN.
  - C REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE PLANS, NOTES & LEGENDS AND DETAILS FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.
  - D CONTRACTOR TO COORDINATE INTERCOM SPEAKER MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL SPEAKER SELECTION. COORDINATE WITH ENGINEER ON ANY DISCREPANCIES.
  - E CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.
  - F ALL EXISTING LOCAL SOUND SYSTEMS THAT ARE TO REMAIN SHALL HAVE ALL DEVICES AND CABLING PROTECTED THROUGHOUT ALL PHASES OF PROJECT.
  - G REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.



**1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA E**  
 Scale: 1/8" = 1'-0"

KEY PLAN:



**ANTHONY, HOPPER & KAHLA MS RENOVATIONS**  
**ANTHONY MIDDLE SCHOOL**  
 10215 Greenhouse Rd., Cypress TX 77433  
 CFISD PROJECT NO: 24-02-5750-R-RFP

Revision	Submission
T_ADDENDUM #02	01/16/25

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn By: NY

TECHNOLOGY 1ST FLOOR  
 PLAN - AREA E

**T2.05**

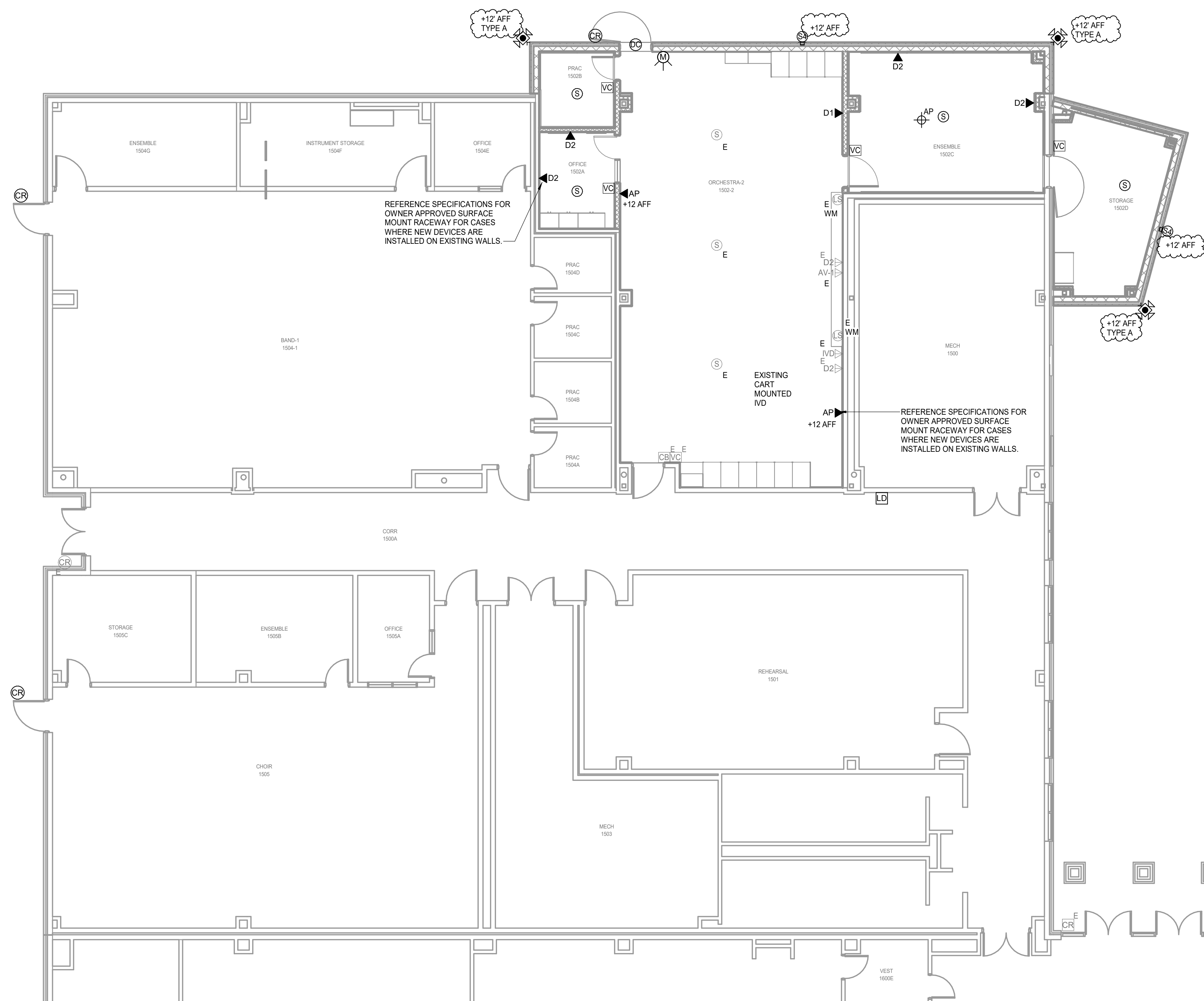


**TECHNOLOGY PLAN GENERAL NOTES**

- A COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.
- B COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT (IF APPLICABLE) PRIOR TO ROUGH-IN.
- C REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE PLANS, NOTES & LEGENDS AND DETAILS FOR ADDITIONAL INFORMATION AND DEVICE OUTLET LOCATIONS.
- D CONTRACTOR TO COORDINATE INTERCOM SPEAKER MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL SPEAKER SELECTION. COORDINATE WITH ENGINEER ON ANY DISCREPANCIES.
- E CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.
- F ALL EXISTING LOCAL SOUND SYSTEMS THAT ARE TO REMAIN SHALL HAVE ALL DEVICES AND CABLING PROTECTED THROUGHOUT ALL PHASES OF PROJECT.
- G REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.

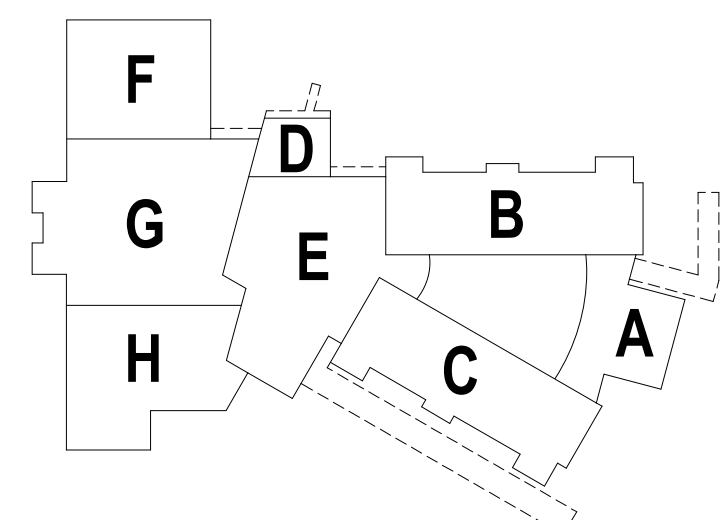
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**1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA F**  
 Scale: 1/8" = 1'-0"

KEY PLAN:



**ANTHONY, HOPPER & KAHLA MS RENOVATIONS**  
**ANTHONY MIDDLE SCHOOL**  
 10215 Greenhouse Rd., Cypress TX 77433  
 CFISD PROJECT NO: 24-02-5750-R-RFP

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn By: NY  
**TECHNOLOGY 1ST FLOOR PLAN - AREA F**  
**T2.06**

**TECHNOLOGY PLAN GENERAL NOTES**

A COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.

B COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT (IF APPLICABLE) PRIOR TO ROUGH-IN.

C REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE PLANS, NOTES & LEGENDS AND DETAILS FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.

D CONTRACTOR TO COORDINATE INTERCOM SPEAKER MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL SPEAKER SELECTION. COORDINATE WITH ENGINEER ON ANY DISCREPANCIES.

E CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.

F ALL EXISTING LOCAL SOUND SYSTEMS THAT ARE TO REMAIN SHALL HAVE ALL DEVICES AND CABLING PROTECTED THROUGHOUT ALL PHASES OF PROJECT.

G REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.

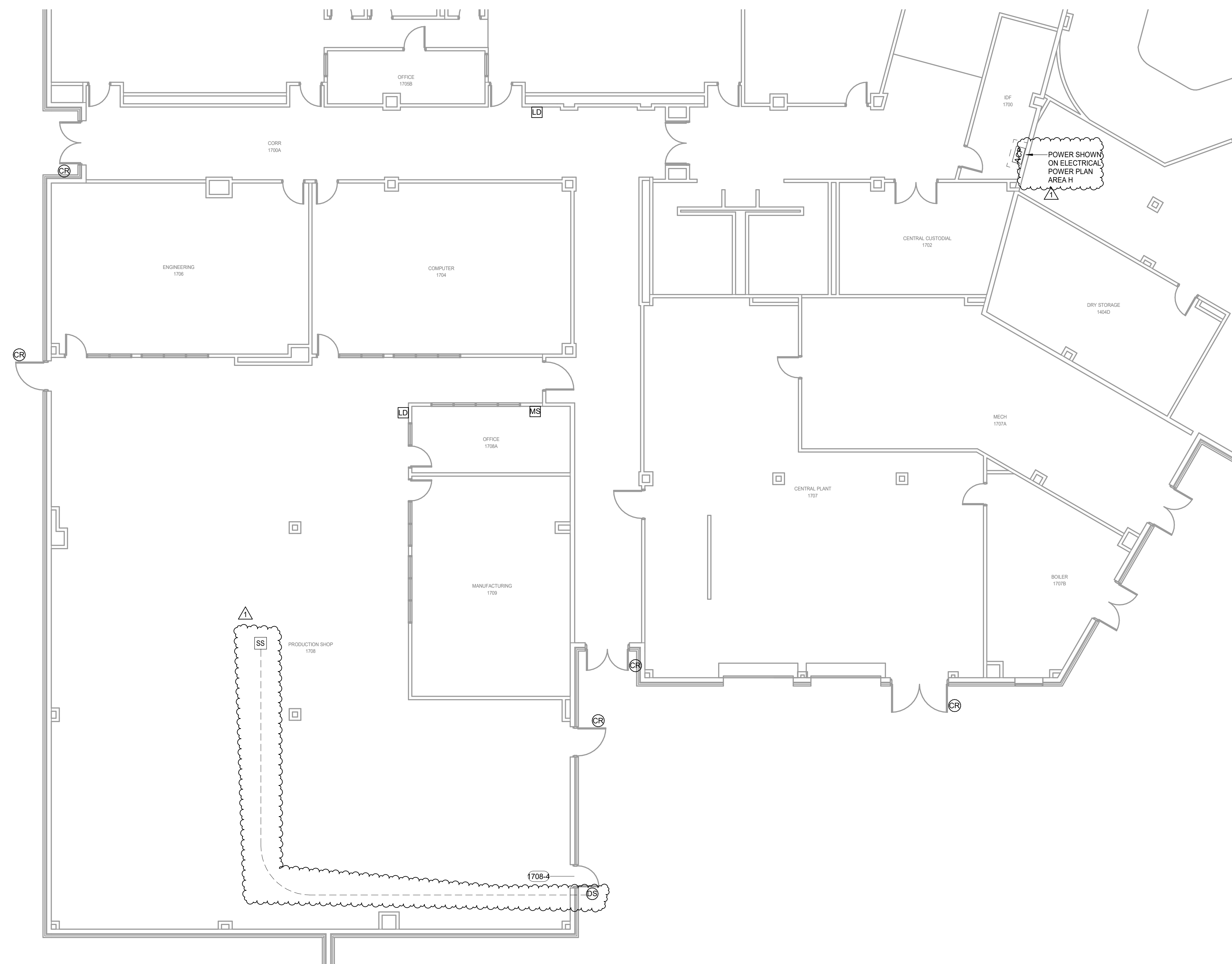
**BID DOCUMENTS**

*Bradley Kalmans*  
 BRADLEY KALMANS  
 REGISTERED PROFESSIONAL ENGINEER  
 01/16/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
 21020 PARK ROW  
 KATY, TX 77449  
 tel: 281.578.9595

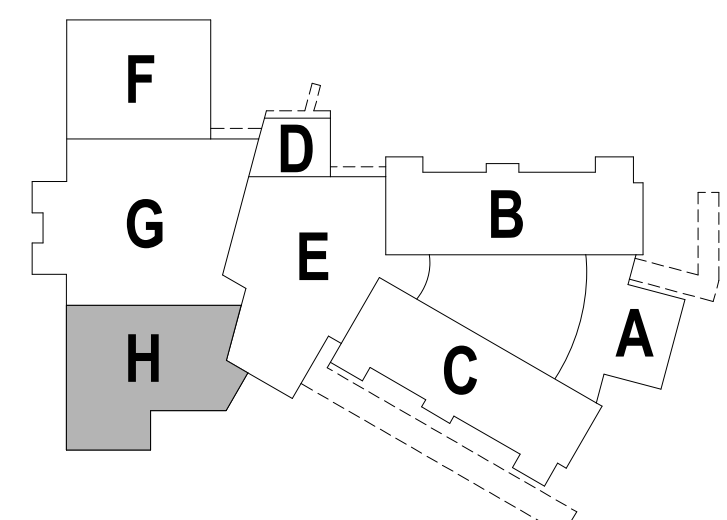
**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
 tel: 713.337.8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
 tel: 281.664.1900



**1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA H**  
 Scale: 1/8" = 1'-0"

KEY PLAN:



**ANTHONY, HOPPER & KAHLA MS RENOVATIONS**  
**ANTHONY MIDDLE SCHOOL**  
 10215 Greenhouse Rd., Cypress TX 77433  
 CFISD PROJECT NO: 24-02-5750-R-RFP

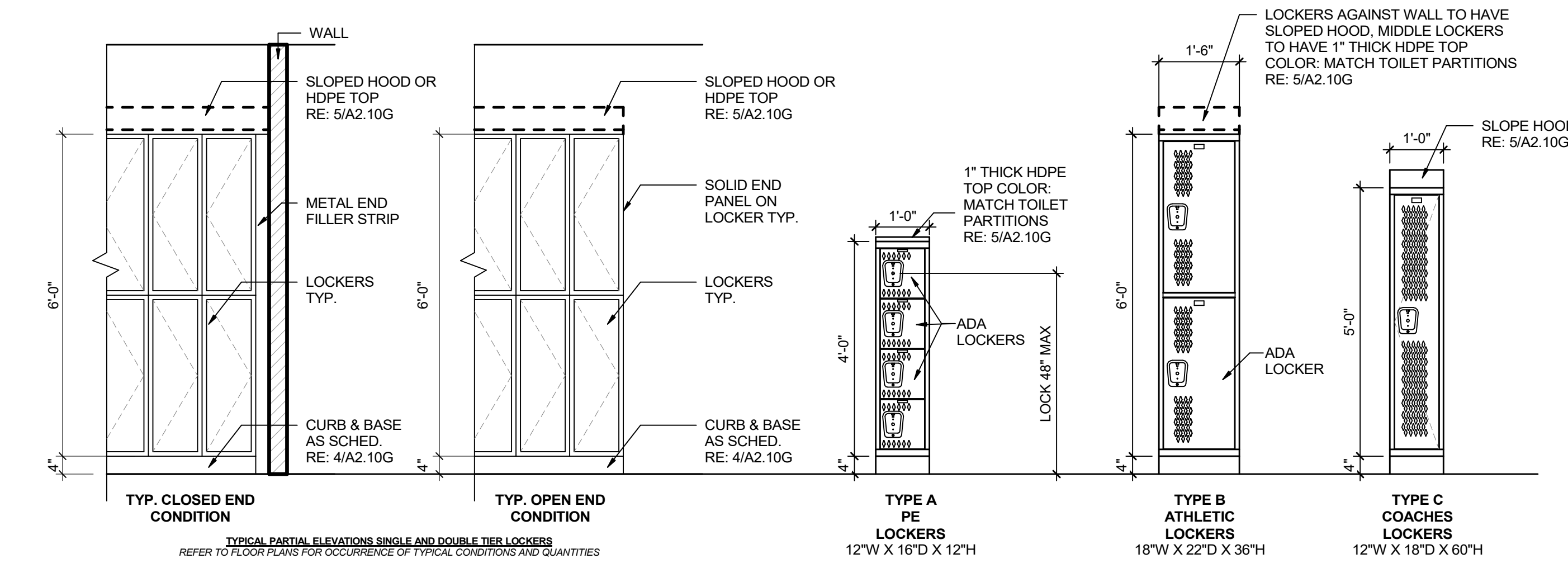
T. ADDENDUM #02... 01/16/25  
 Revisions / Submission

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn By: NY

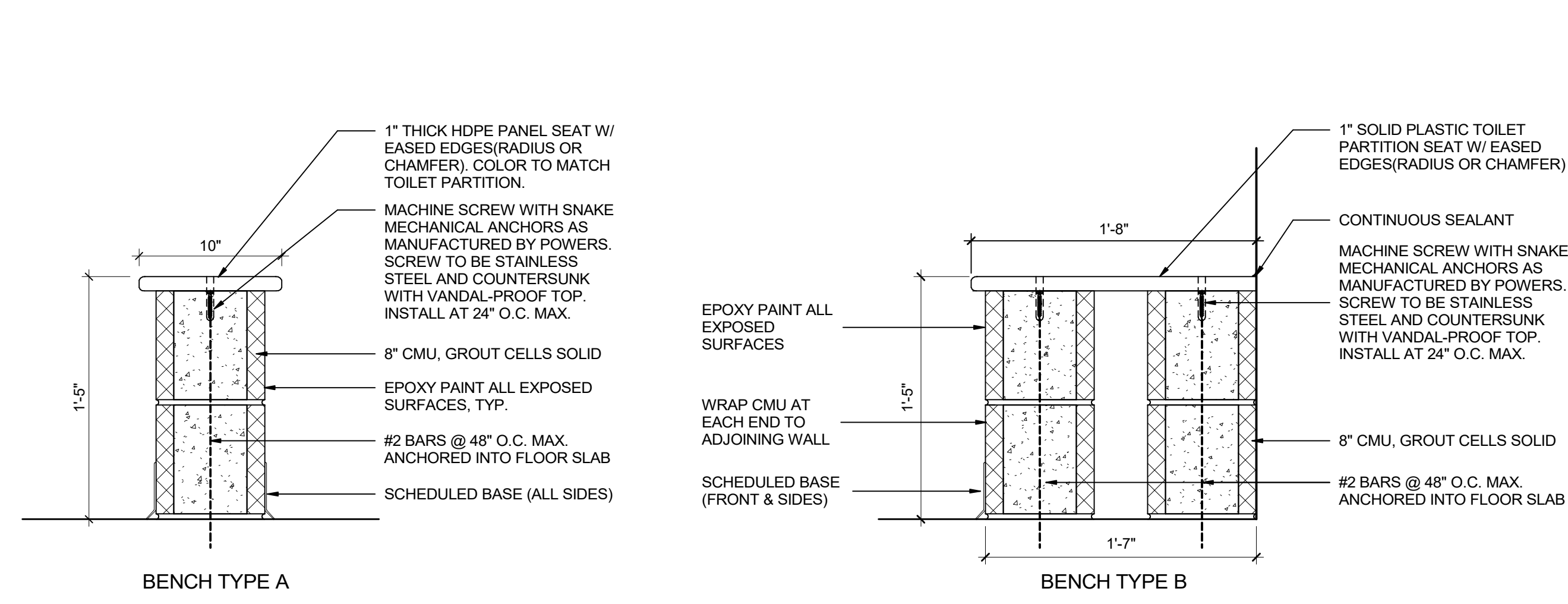
TECHNOLOGY 1ST FLOOR  
 PLAN - AREA H

**T2.08**

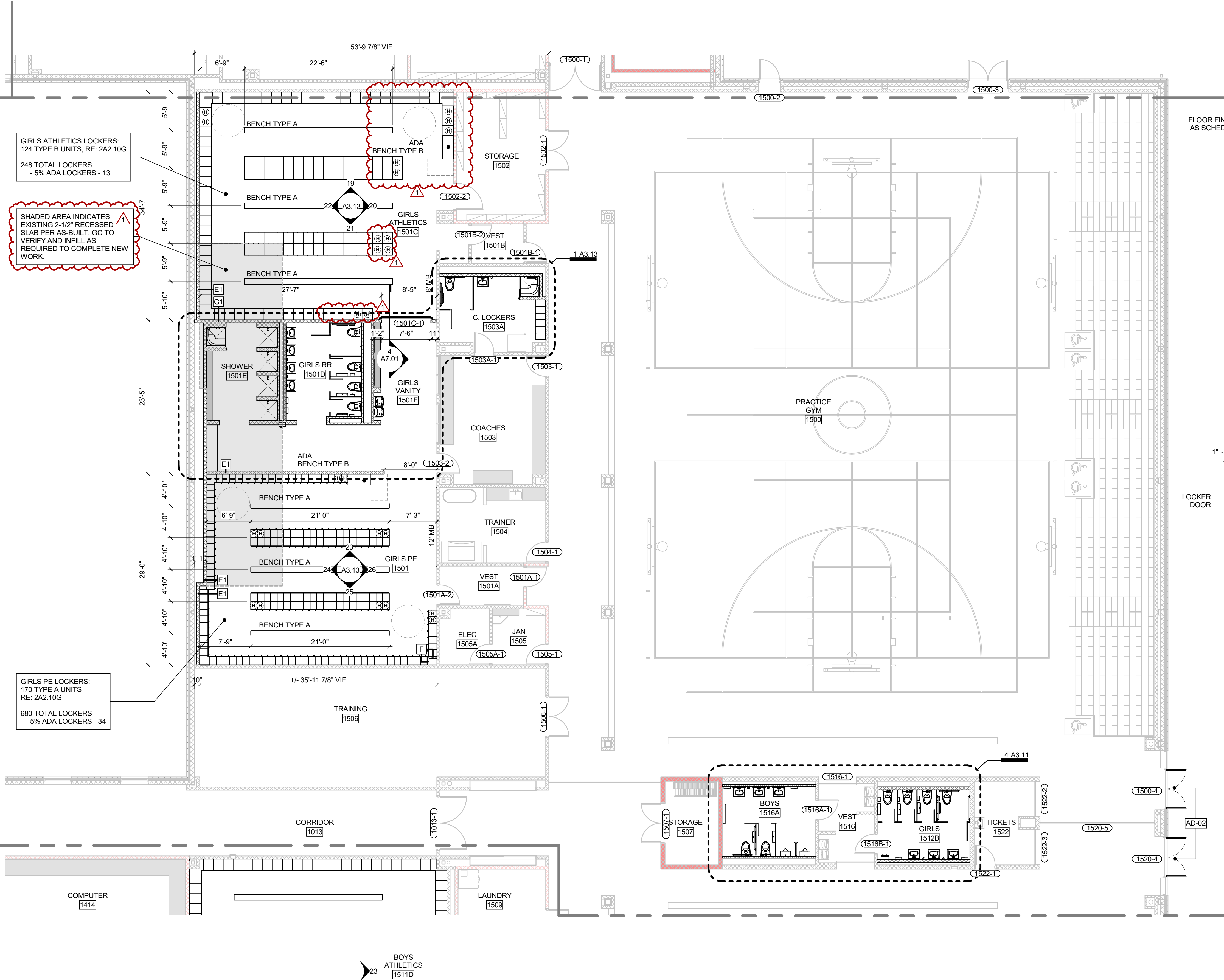




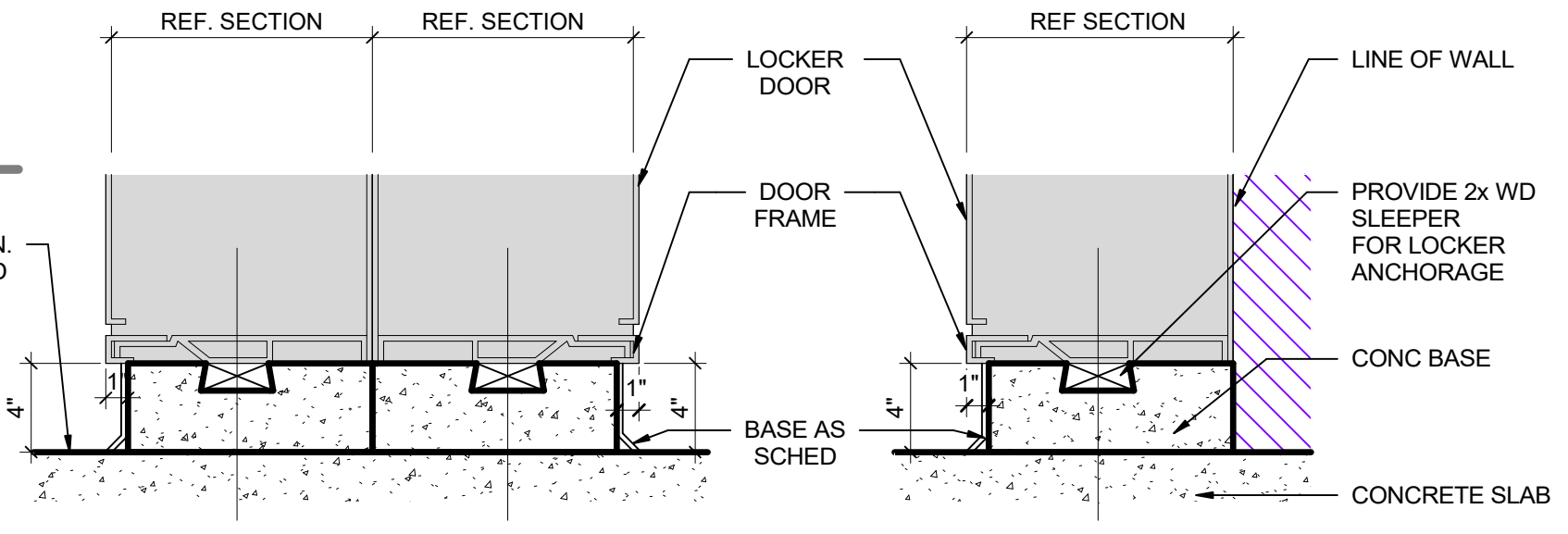
**3 LOCKER ELEVATION - FRONT**  
1/2" = 1'-0"



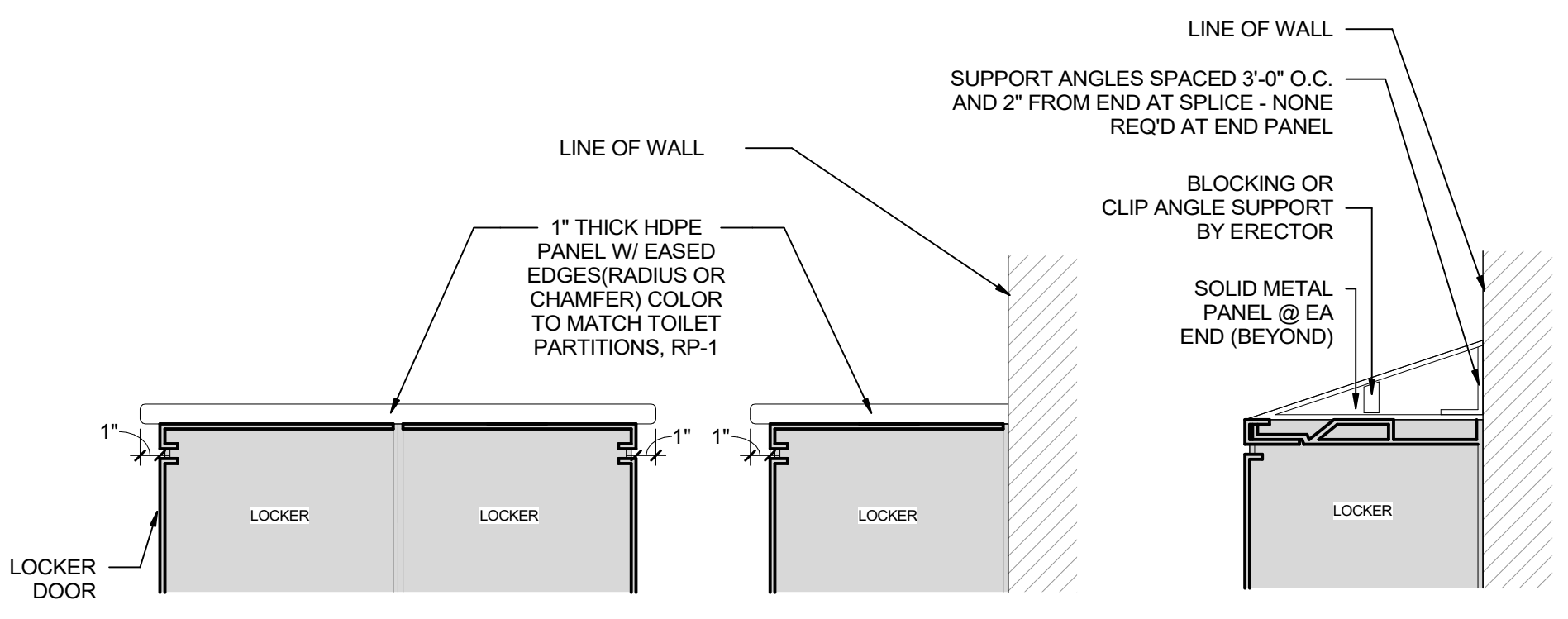
**2 LOCKER ROOM BENCH SECTION DETAIL**  
1/2" = 1'-0"



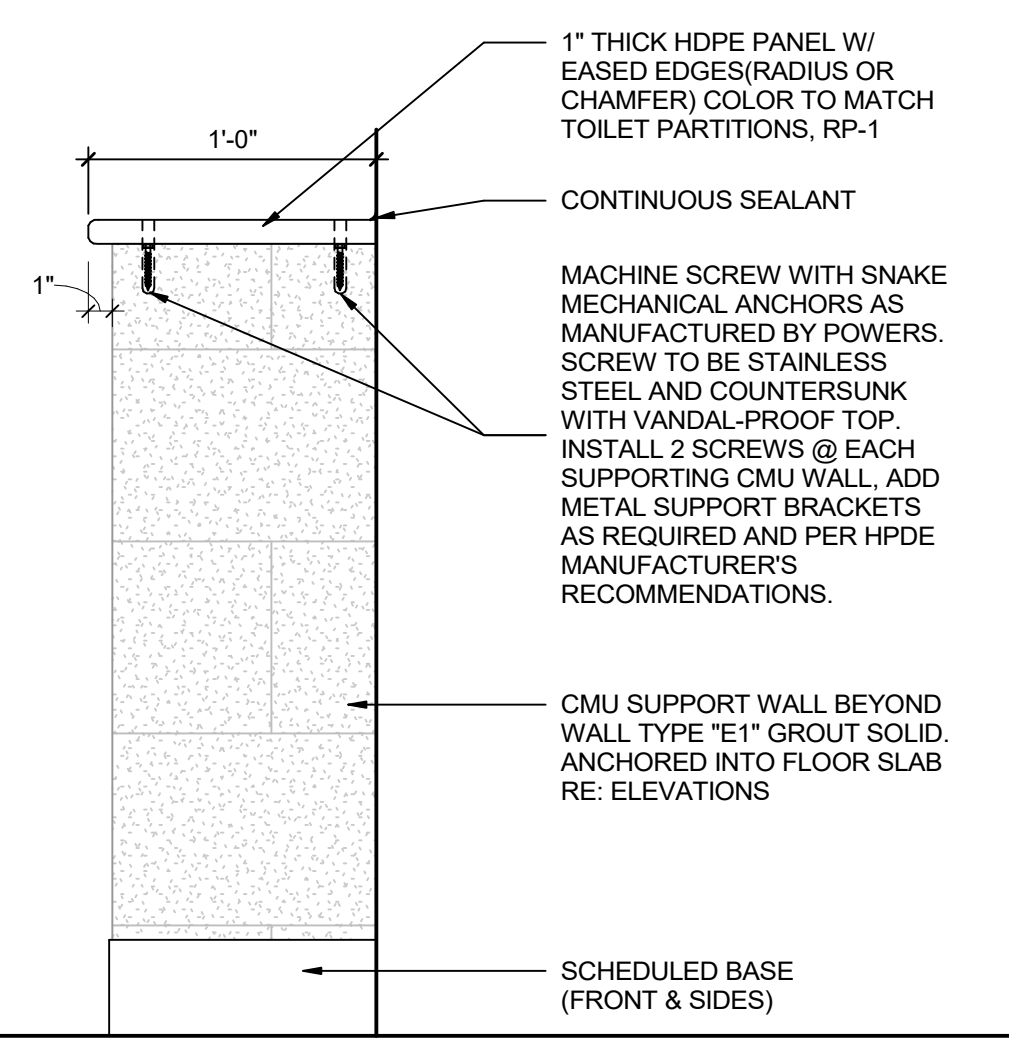
**1 1ST FLOOR PLAN - AREA 'G'**  
1/8" = 1'-0"



**4 LOCKER BASE - 4" HIGH**  
1/2" = 1'-0"



**5 LOCKER TOP**  
1/2" = 1'-0"



**6 LOCKER ROOM VANITY DETAIL**  
1/2" = 1'-0"

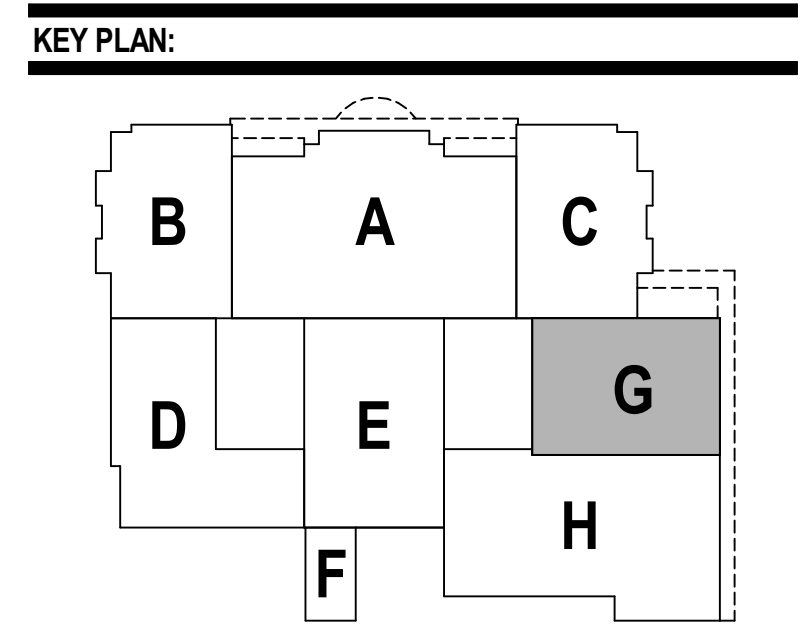
- FLOOR PLAN RENOVATION NOTES**
- REFER TO SHEET A2.01 FOR FLOOR PLAN RENOVATION NOTES
  - REFER TO SHEET A1.10 FOR SITE PLAN RENOVATION LIMITS AND DETAILS FOR NEW PAVING AROUND BUILDING
- LOCKER ROOM GENERAL NOTES**
- REFER TO D SERIES SHEETS FOR EXTENT OF LOCKER ROOM DEMOLITION WORK.
  - CONSTRUCT CONCRETE CURB BELOW ALL NEW PARTITIONS AROUND RESTROOMS, TOILET ROOMS, SHOWER AREA, SHOWER STALLS AND COACHES LOCKER ROOM. REFER TO A4.20 FOR DETAILS.
  - REMOVE ALL FINISHES FROM EXISTING WALLS TO REMAIN. PATCH, REPAIR AND FINISH WALL AS REQUIRED TO RECEIVE NEW FINISHES.
  - INSTALL SALVAGED METAL SHELVINGS FROM EXISTING PE STORAGE ROOMS TO NEW STORAGE ROOMS. SECURE AND STRAP TO WALL.
  - PROVIDE AND INSTALL LOCKERS AS SHOWN IN PLAN. PROVIDE 4" H CONTINUOUS CONCRETE CURB UNDER ALL LOCKERS. ADA LOCKER UNITS ARE SHOWN WITH "H" SYMBOL. REFER TO SPECIFICATIONS.
  - REFER TO RESTROOM / TOILET ROOM RENOVATION NOTES.
  - PROVIDE AND INSTALL THE FOLLOWING AT EACH SHOWER STALL:
    - SHOWER CURTAIN AND ROD
    - TOWEL HOOKS OUTSIDE OF SHOWER
  - REFER TO SHEET G2.01 FOR ADA AND ACCESSORIES MOUNTING HEIGHTS REQUIREMENT. PLUMBING FIXTURES ARE NOTED ON PLAN "ADY".
  - REFER TO ELEVATIONS, FINISH PLANS AND FINISH LEGEND.
  - REFER TO CEILING PLANS FOR DEMOLITION AND NEW WORK.
  - REFER TO MEPT AND STRUCTURAL DRAWINGS FOR DEMOLITION AND NEW WORK.

**KEYNOTES**

- AD-02 INSTALL NEW EXTERIOR STOREFRONT DOOR IN EXISTING ALUMINUM CURTAIN WALL FRAME.

**PLAN LEGEND**

SYMBOL	DESCRIPTION
FE	FIRE EXTINGUISHER MOUNTED ON WALL BRACKETS
FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET MOUNTED ON WALL
KB	KNOX BOX LOCATION
MB / TB	MARKER BOARD / TACKBOARD RE: SPECS
(Dashed line)	MASONRY WALL
(Red dashed line)	1HR FIRE-RATED MASONRY WALL
(Thick red dashed line)	2HR FIRE-RATED MASONRY WALL
A	ALIGN PARTITIONS



**NATEX CORPORATION ARCHITECTS**  
www.natexarchitects.com  
447 Heights Boulevard  
Houston, TX 77007  
Phone: 713-975-9525  
Fax: 713-780-7824

**Coleman Partners ARCHITECTS**  
www.colemanpartners.com  
3701 Kirby Drive, Suite 830  
Houston, TX 77098  
tel: 832-947-1038 fax: 252-214-5365

**CONSTRUCTION DOCUMENT**

**REGISTERED ARCHITECT**  
STATE OF TEXAS  
No. 10000  
Exp. 03/31/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
21020 PARK ROW  
KATY, TX 77449  
tel: 281-578-9595

**STRUCTURAL ENGINEER**  
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9800 RICHMOND AVE.  
SUITE 400  
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**MEPT ENGINEER**  
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10930 W. SAM HOUSTON PKWY. N.  
SUITE 900  
HOUSTON, TX 77064  
tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
25317 INTERSTATE 45  
THE WOODLANDS, TX 77380  
tel: 281-350-2323

**LANDSCAPE ARCHITECT**  
**LANDESN GROUP**  
17041 EL CAMINO REAL  
SUITE 204  
HOUSTON, TX 77058  
tel: 281.486.4040

**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**HOPPER MIDDLE SCHOOL**  
7811 FRY RD, CYPRESS, TX 77433  
CFISD PROJECT NO: 24-02-5750-R-RFP

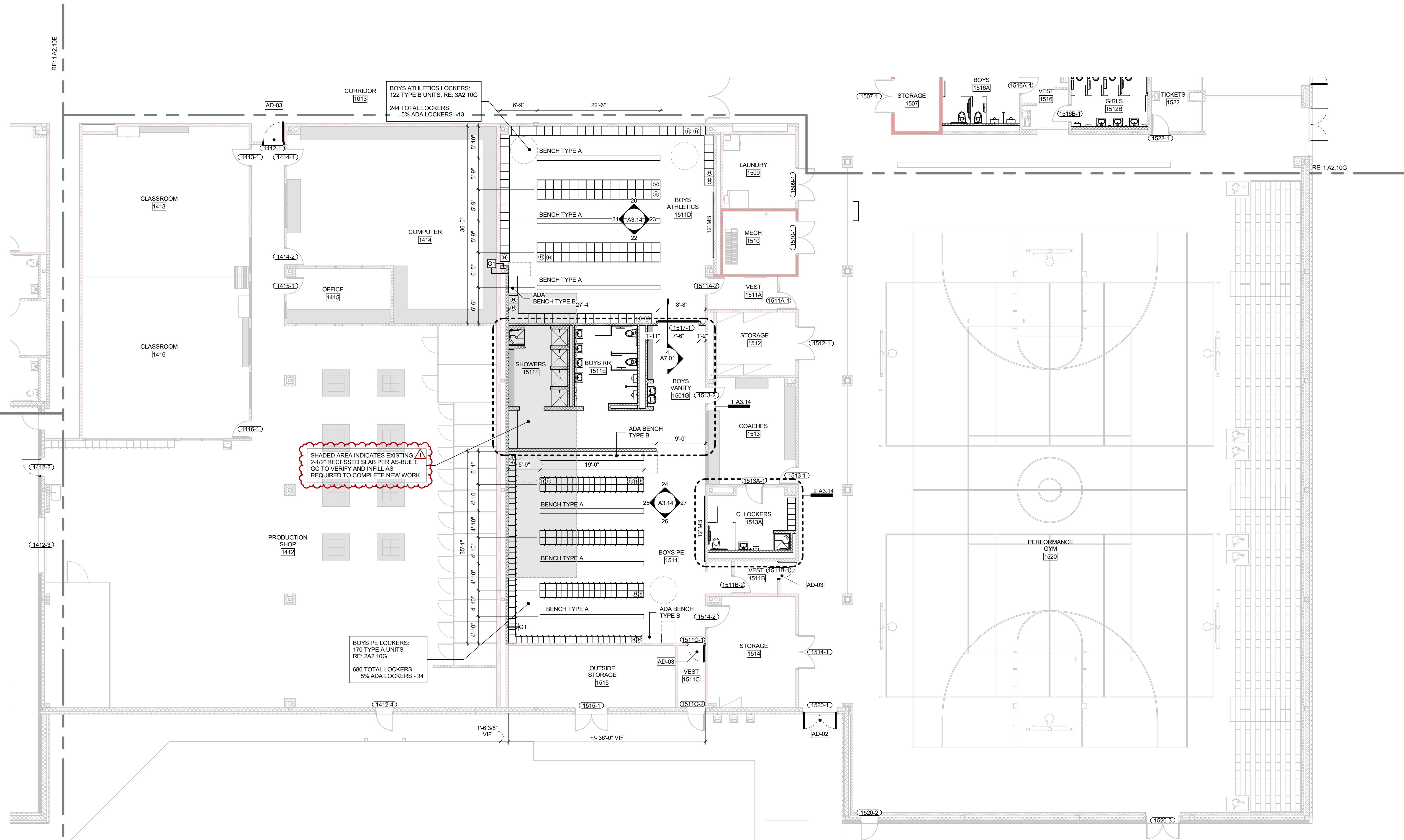
**REVISIONS**

NO.	DATE	DESCRIPTION
1	01-16-25	ADDENDUM 02

Project Number: 22084  
Date: 29 DECEMBER 2024  
Drawn by: WHL / KLO

**FLOOR PLAN AREA 'G'**  
**A2.10G**





FLOOR PLAN RENOVATION NOTES

- REFER TO SHEET A2.01 FOR FLOOR PLAN RENOVATION NOTES
- REFER TO SHEET A1.10 FOR SITE PLAN RENOVATION LIMITS AND DETAILS FOR NEW PAVING AROUND BUILDING

LOCKER ROOM GENERAL NOTES

- REFER TO D SERIES SHEETS FOR EXTENT OF LOCKER ROOM DEMOLITION WORK.
- CONSTRUCT CONCRETE CURB BELOW ALL NEW PARTITIONS AROUND RESTROOMS, TOILET ROOMS, SHOWER AREA, SHOWER STALLS AND COACHES LOCKER ROOM. REFER TO A4.20 FOR DETAILS.
- REMOVE ALL FINISHES FROM EXISTING WALLS TO REMAIN. PATCH, REPAIR AND FINISH WALL AS REQUIRED TO RECEIVE NEW FINISHES.
- INSTALL SALVAGED METAL SHELVINGS FROM EXISTING PE STORAGE ROOMS TO NEW STORAGE ROOMS. SECURE AND STRAP TO WALL.
- PROVIDE AND INSTALL LOCKERS AS SHOWN IN PLAN. PROVIDE 4" H CONTINUOUS CONCRETE CURBS UNDER ALL LOCKERS. ADA LOCKER UNITS ARE SHOWN WITH "H" SYMBOL. REFER TO SPECIFICATIONS.
- REFER TO RESTROOM / TOILET ROOM RENOVATION NOTES.
- PROVIDE AND INSTALL THE FOLLOWING AT EACH SHOWER STALL:
  - SHOWER CURTAIN AND ROD
  - TOWEL HOOKS OUTSIDE OF SHOWER
- REFER TO SHEET G2.01 FOR ADA AND ACCESSORIES MOUNTING HEIGHTS REQUIREMENT. ACCESSIBLE PLUMBING FIXTURES ARE NOTED ON PLAN "ADA".
- REFER TO ELEVATIONS, FINISH PLANS AND FINISH LEGEND.
- REFER TO CEILING PLANS FOR DEMOLITION AND NEW WORK.
- REFER TO MEPT AND STRUCTURAL DRAWINGS FOR DEMOLITION AND NEW WORK.

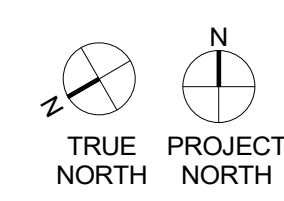
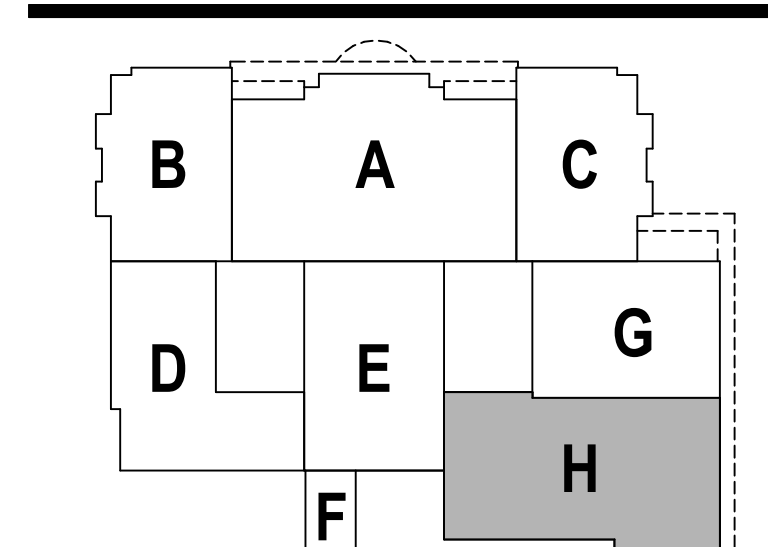
KEYNOTES

- AD-02 INSTALL NEW EXTERIOR STOREFRONT DOOR IN EXISTING ALUMINUM CURTAIN WALL FRAME.
- AD-03 INSTALL NEW DOOR IN EXISTING FRAME. RE: DOOR SCHEDULE

PLAN LEGEND

SYMBOL	DESCRIPTION
FE	FIRE EXTINGUISHER MOUNTED ON WALL BRACKETS
FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET MOUNTED ON WALL
KB	KNOX BOX LOCATION
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(Thick red dashed line)	2HR FIRE-RATED MASONRY WALL
A	ALIGN PARTITIONS

KEY PLAN:



**1 1ST FLOOR PLAN - AREA 'H'**  
1/8" = 1'-0"

SCALE: 1/8" = 1'-0"  
0' 4'-0" 8'-0" 16'-0"

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www.natesarchitects.com  
447 Heights Boulevard  
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Fax: 713-780-7824

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3701 Kirby Drive, Suite 830  
Houston, TX 77098  
tel: 832-947-1038 fax: 281-214-5365

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21020 PARK ROW  
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HOUSTON, TX 77042  
tel: 713-337-8881

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HOUSTON, TX 77064  
tel: 281.664.1900

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tel: 281-350-2323

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**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**HOPPER MIDDLE SCHOOL**  
7811 FRY RD, CYPRESS, TX 77433  
CFISD PROJECT NO: 24-02-5750-R-RFP

Project Number: 22084  
Date: 29 DECEMBER 2024  
Drawn by: WHL / KLO

**FLOOR PLAN AREA 'H'**  
**A2.10H**



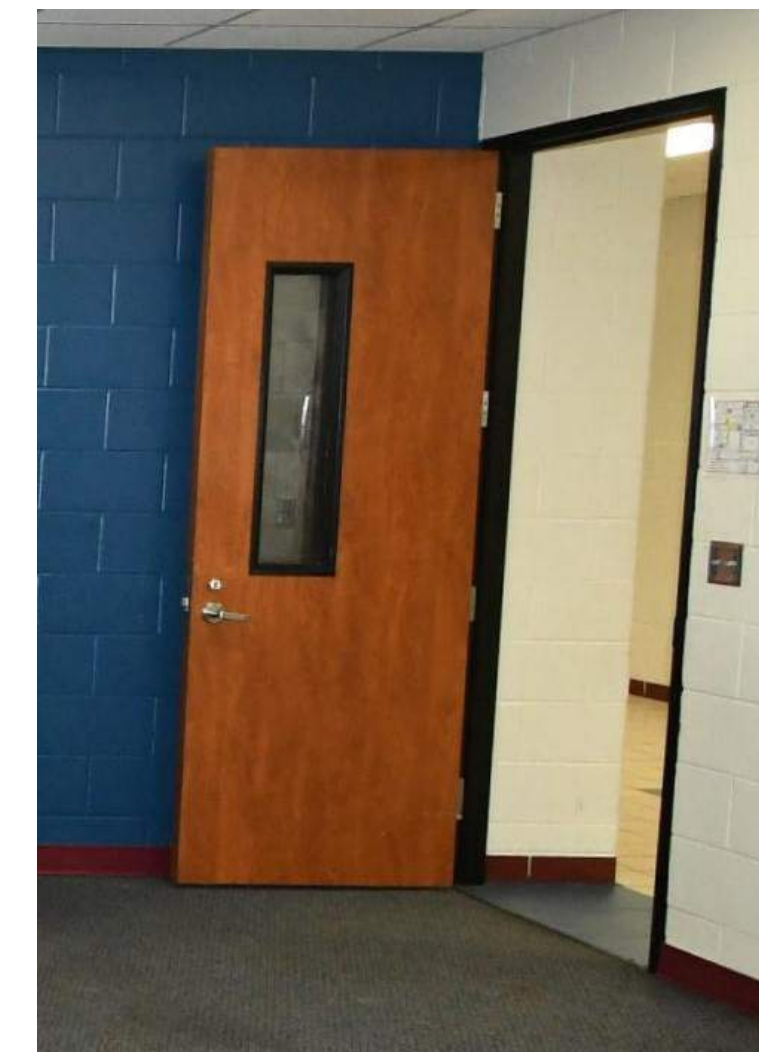
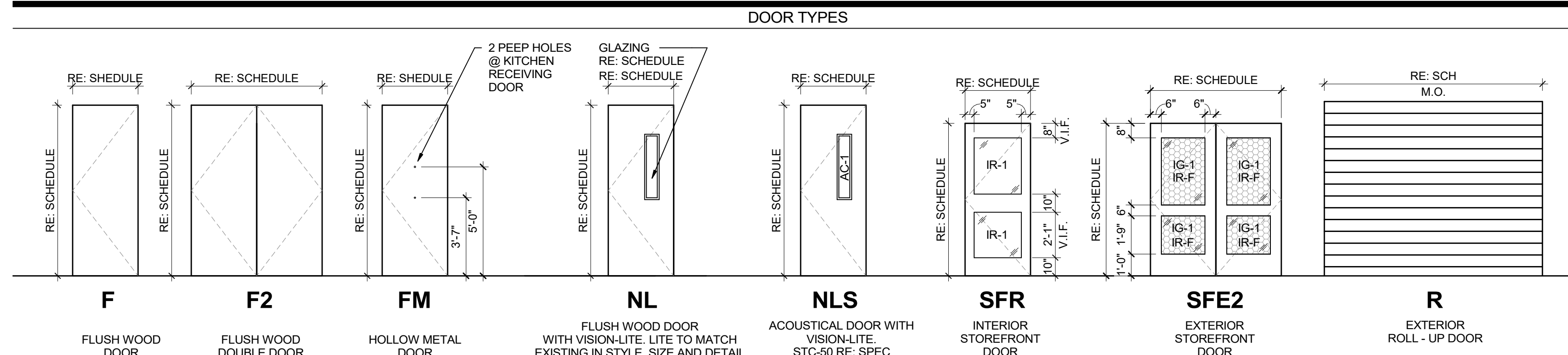
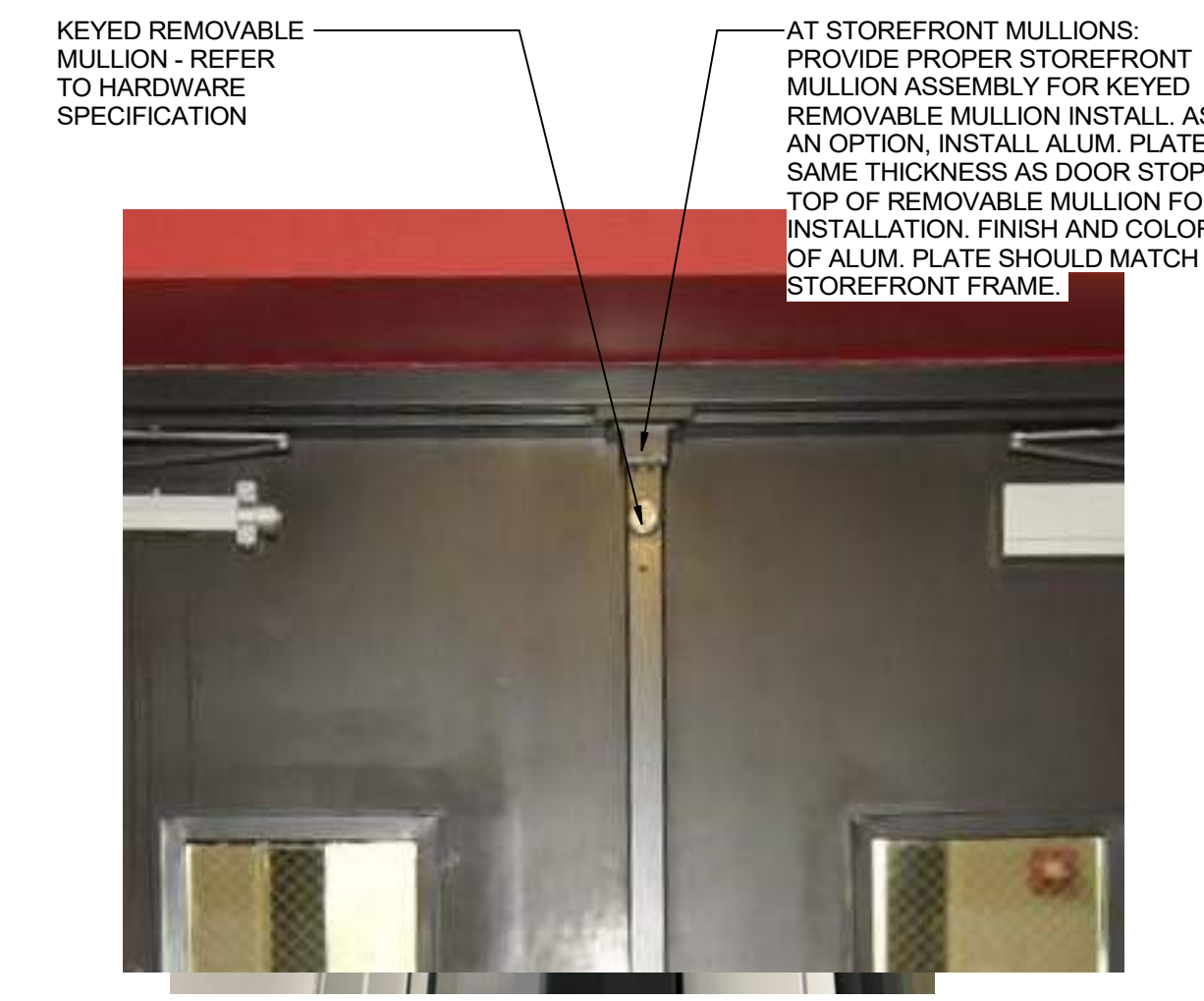


PHOTO NO. 1:  
EXISTING DOOR LITE - VERIFY SIZE IN FIELD. LITES  
IN NEW DOORS SHOULD MATCH EXISTING.



10 KEYED REMOVABLE MULLION  
1 1/2" = 1'-0"

**GLASS TYPE LEGEND**

IG-1 INSULATED GLASS (EXTERIOR)  
IR-3 INSULATED IMPACT RESISTANT GLASS (EXTERIOR)  
IR-3 9/16" THICK IMPACT RESISTANT GLASS (INTERIOR)  
IR-2 3/8" THICK IMPACT RESISTANT GLASS (INTERIOR)  
FR-1 FIRE-RATED GLASS - 90 MINS  
S-1 1/4" TEMPERED GLASS  
E EXISTING GLASS  
IRF IMPACT RESISTANT FILM (RE: SPEC)

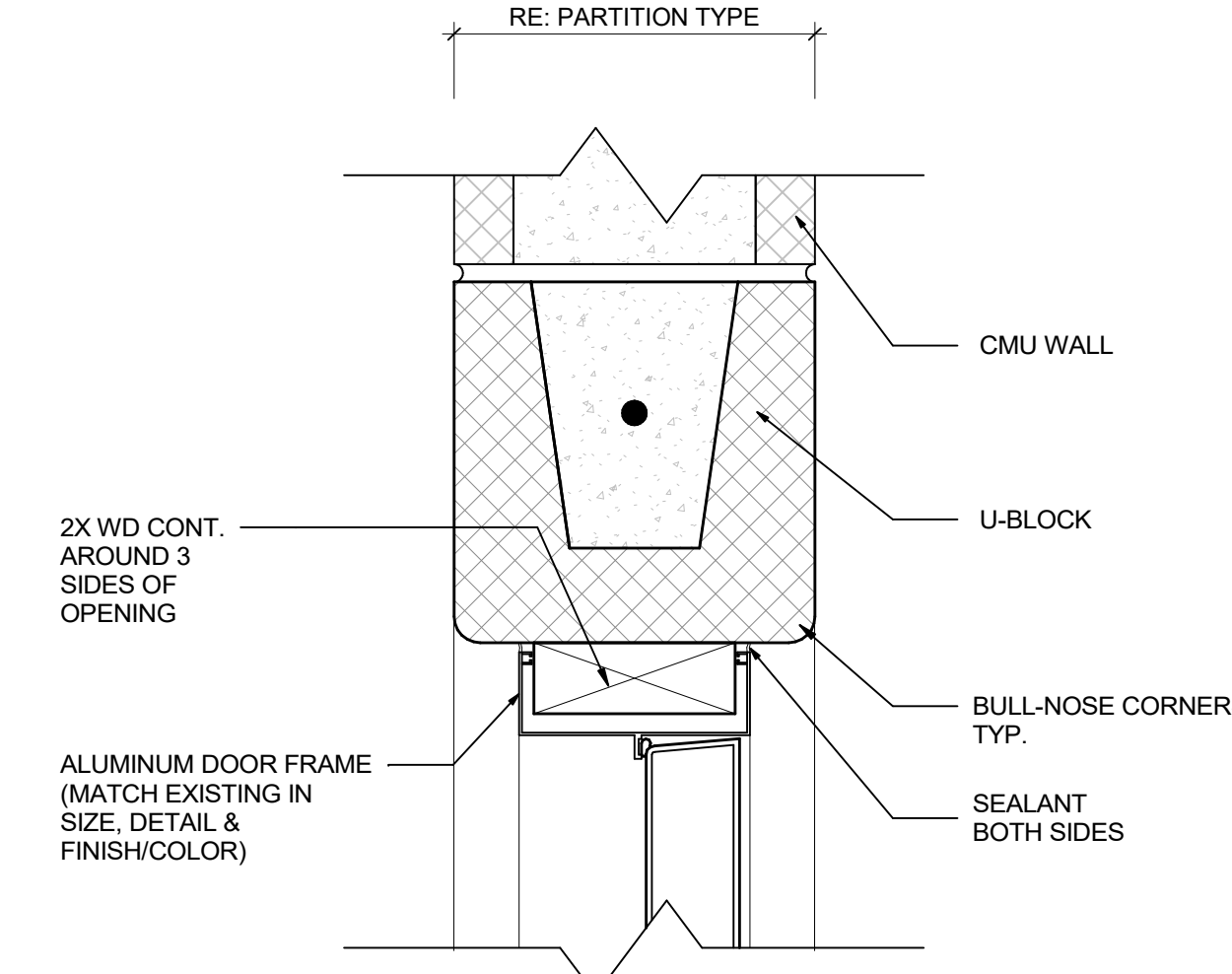
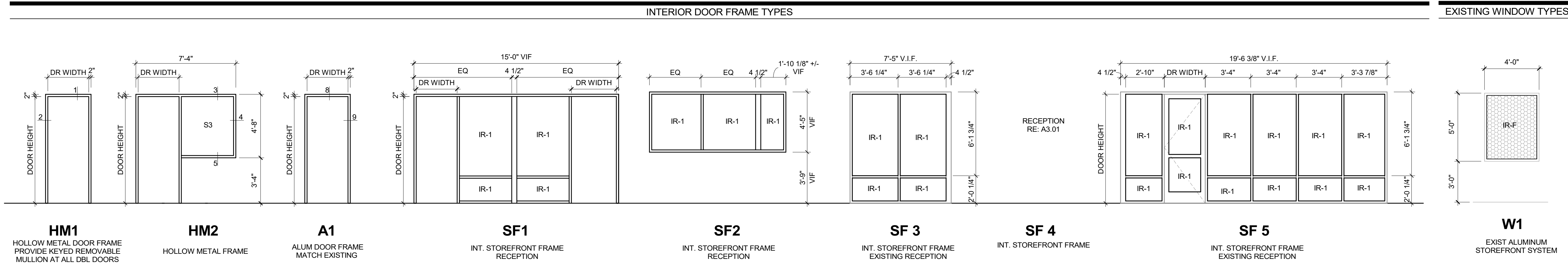
INSTALLATION OF IMPACT RESISTANT GLASS (IR) TYPES SHALL COMPLY WITH GLASS MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. DOW CORNING 995 SILICON STRUCTURAL SEALANT IS REQUIRED.

WHERE IR-F IS NOTED, INSTALL IMPACT RESISTANT FILM OVER EXISTING GLASS PER MANUFACTURER'S STANDARDS AND RECOMMENDATIONS.

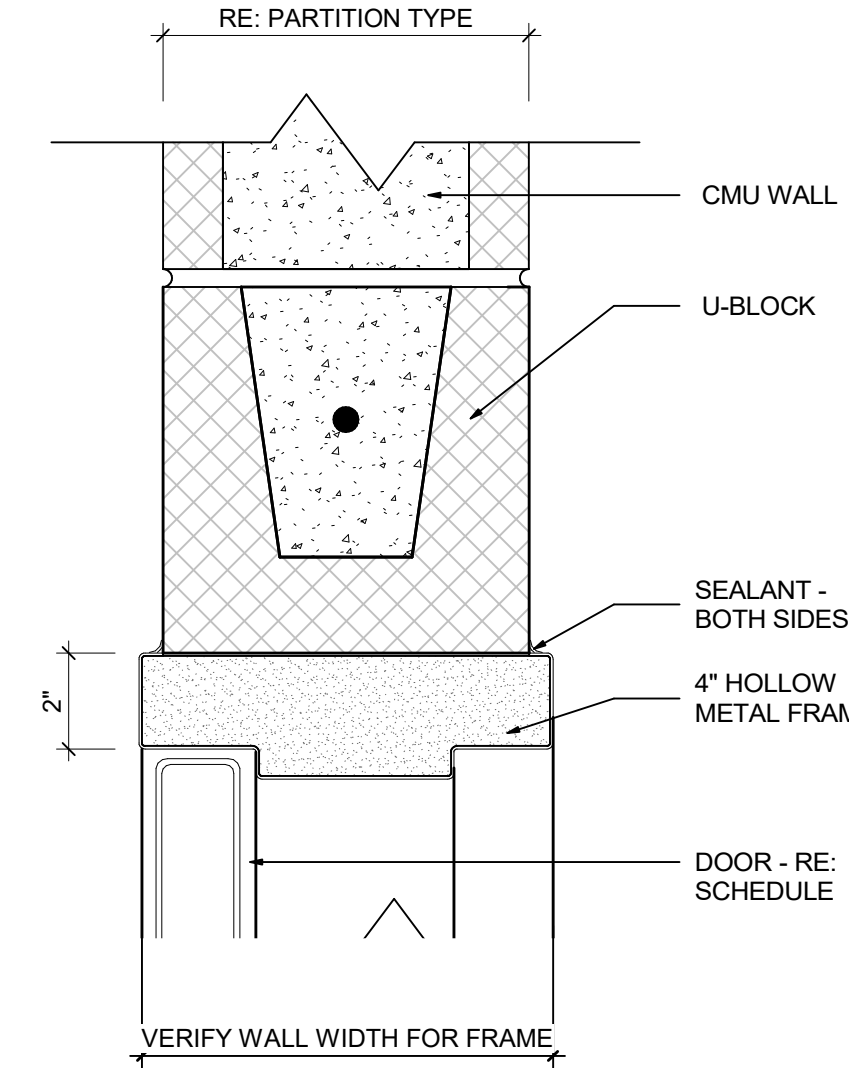
REFER TO SPECIFICATION SECTION 08 80 00

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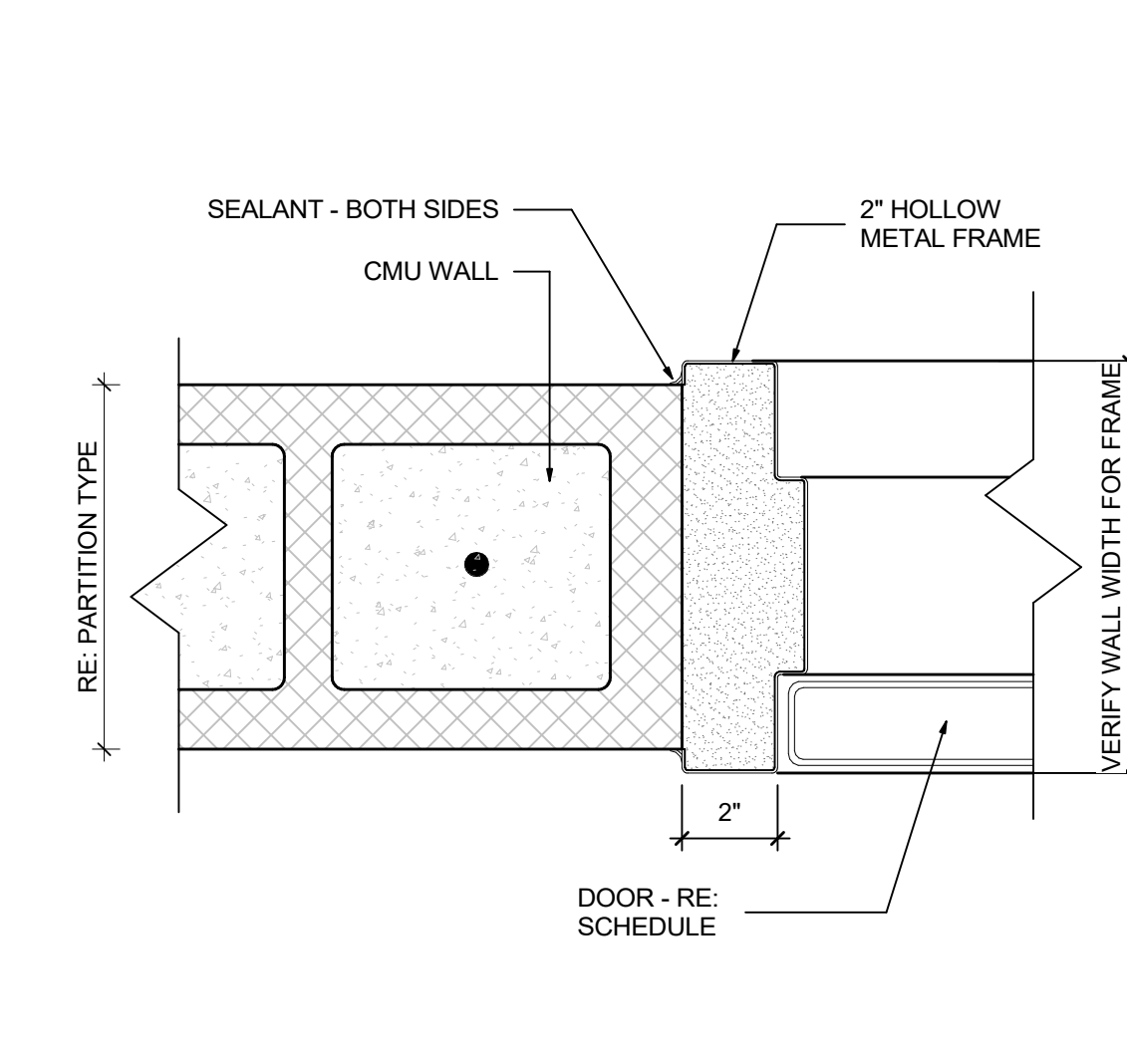
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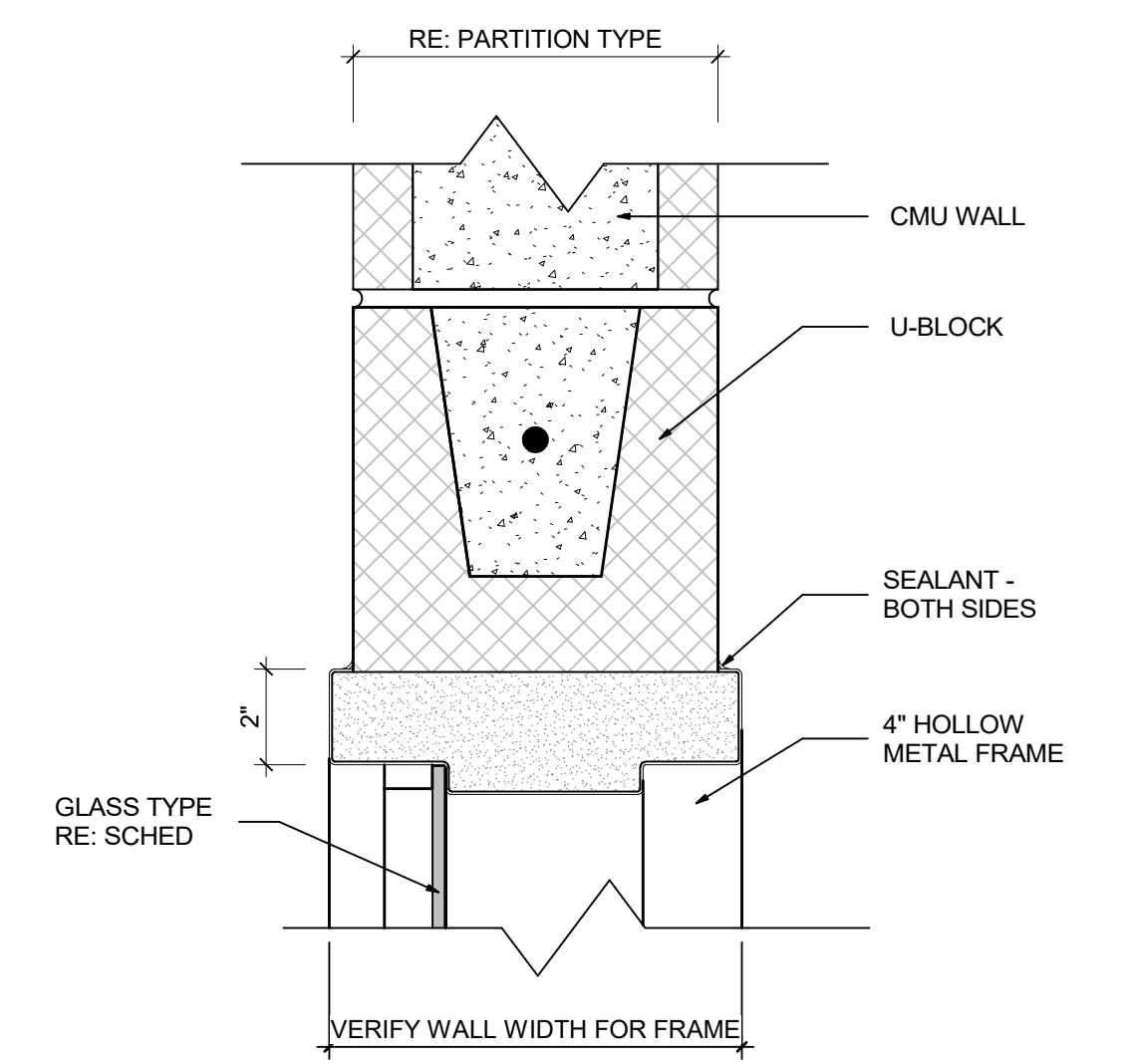
6 INT. ALUM. - DOOR HEAD  
3" = 1'-0"



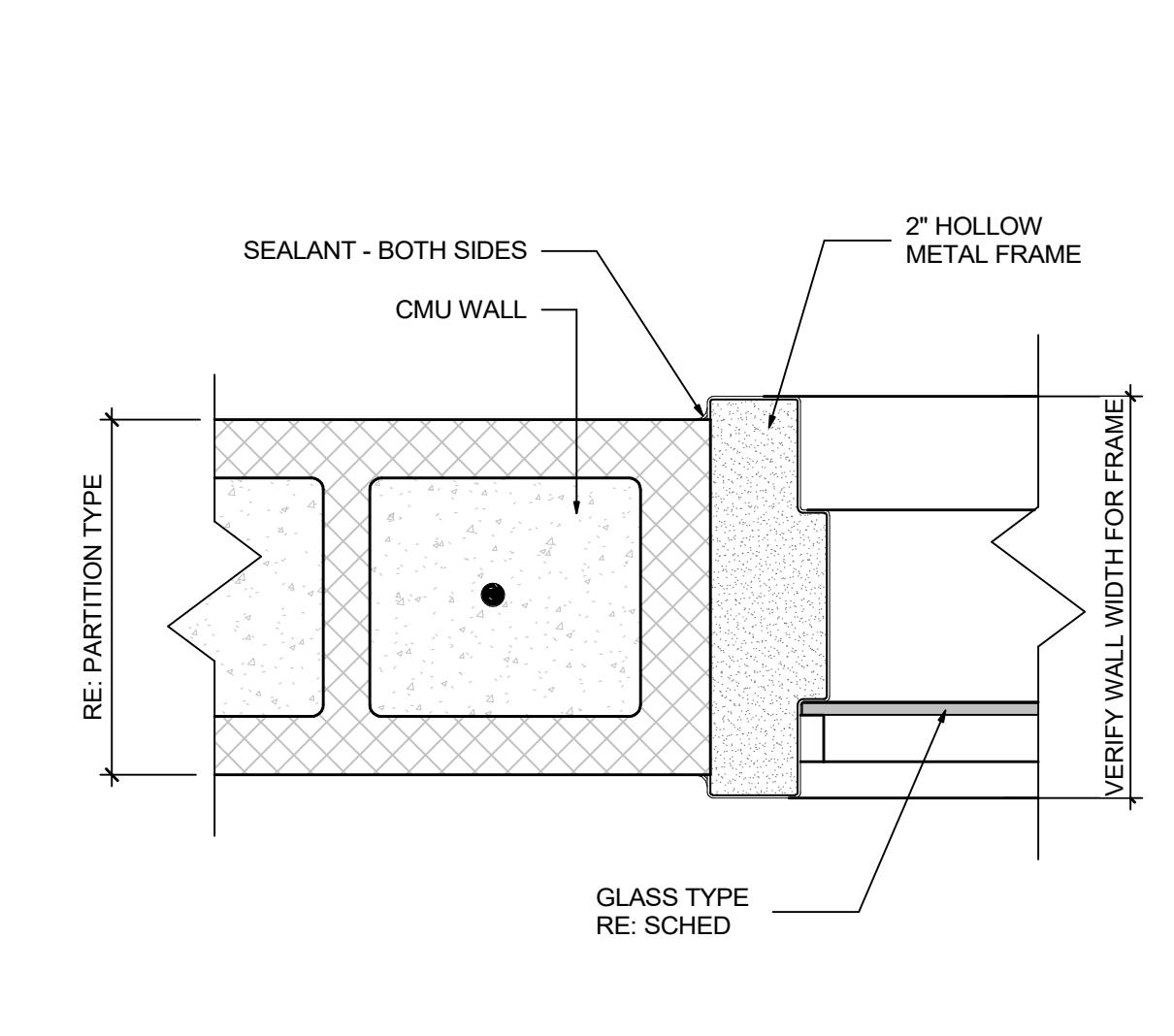
1 INT. H.M. - DOOR HEAD  
3" = 1'-0"



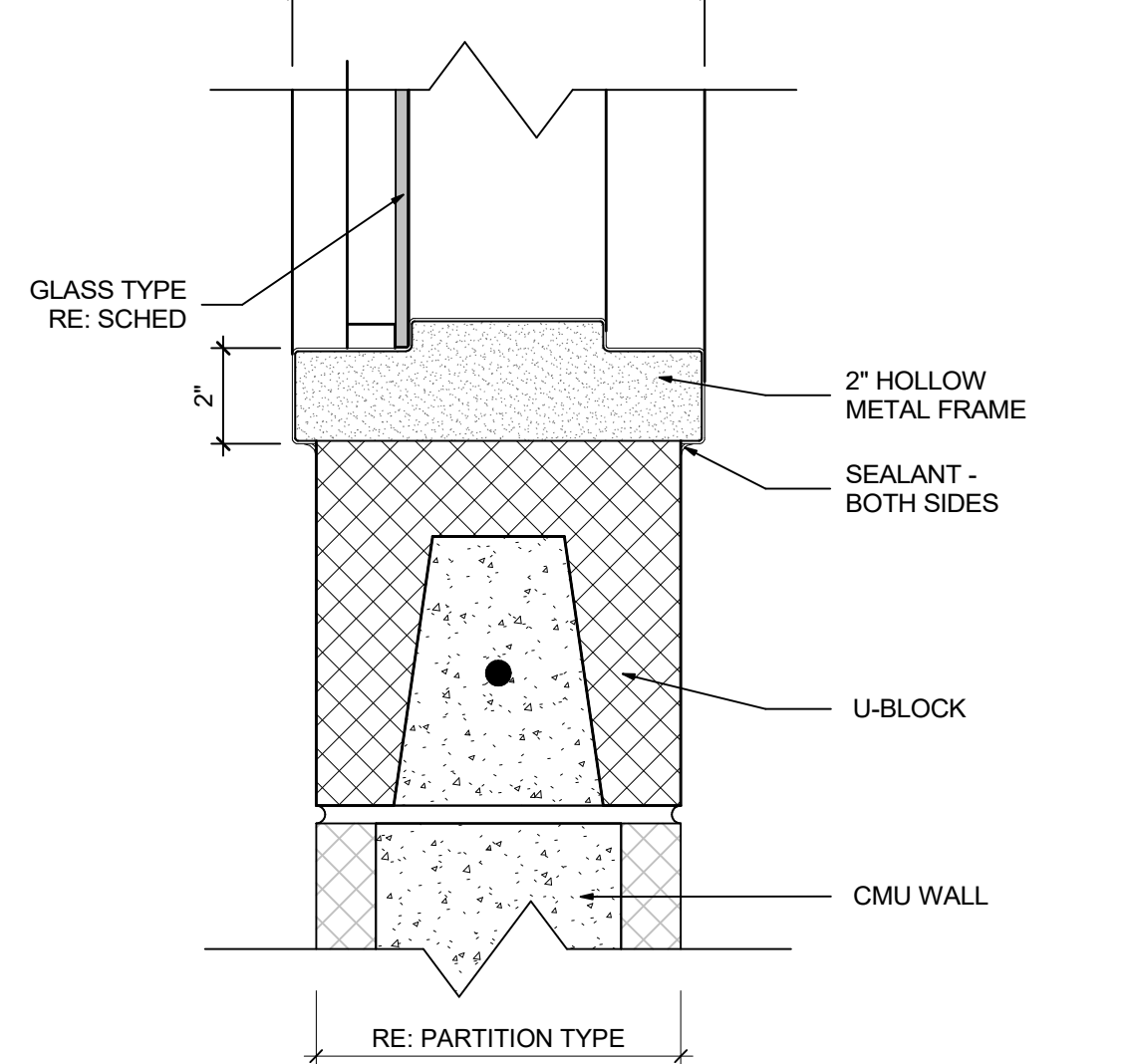
2 INT. H.M. - DOOR JAMB  
3" = 1'-0"



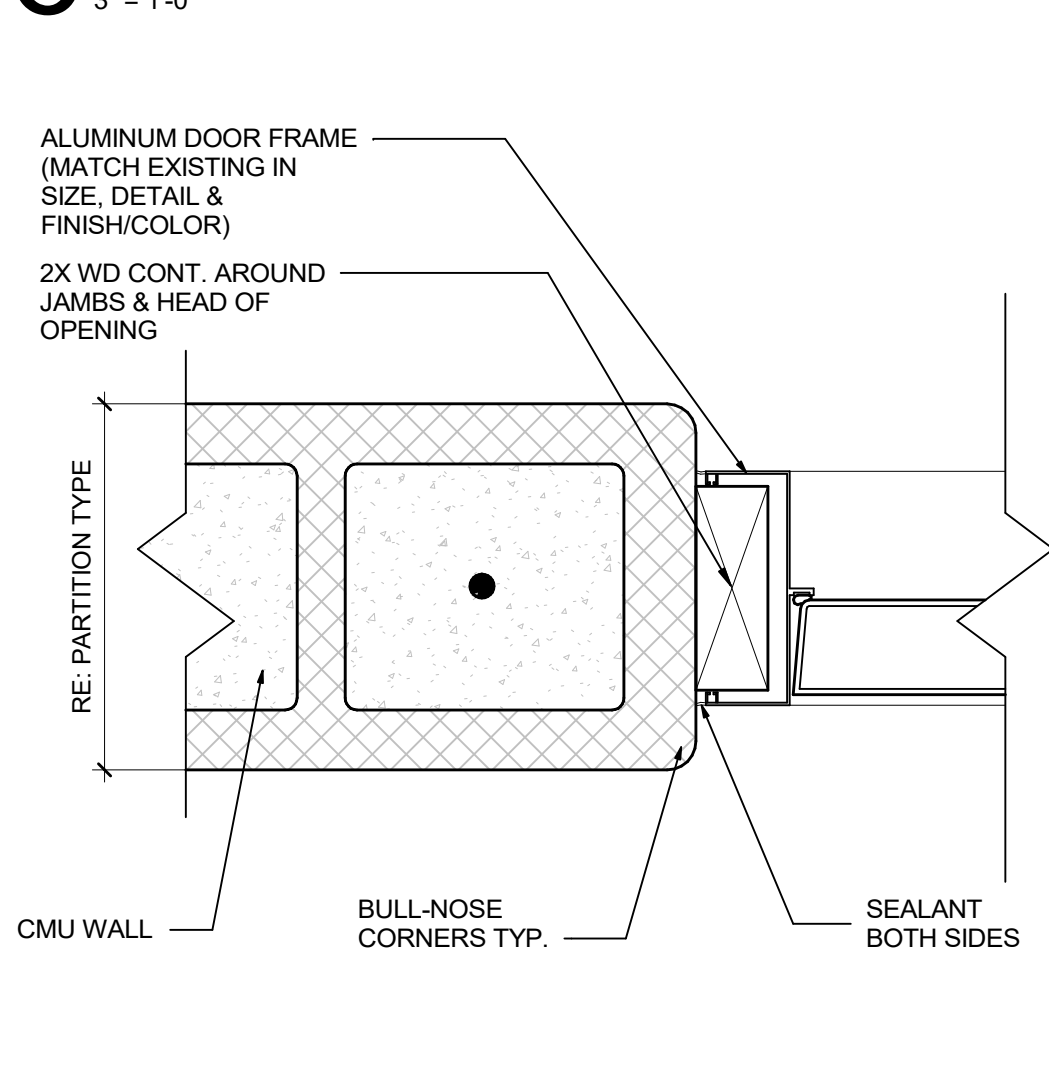
3 INT. H.M. - DOOR TRANSOM / HEAD  
3" = 1'-0"



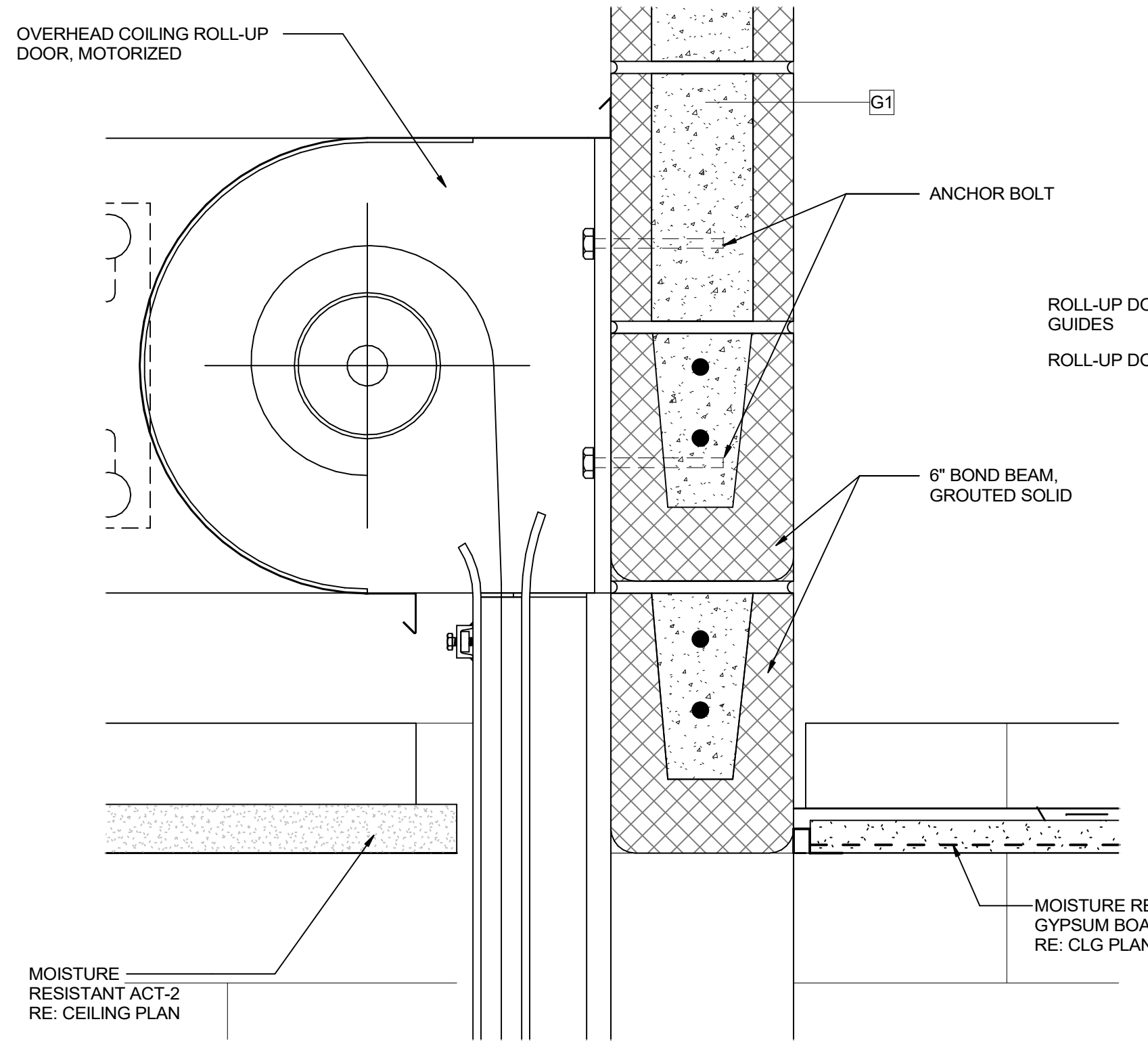
4 INT. H.M. - DOOR SIDELITE JAMB  
3" = 1'-0"



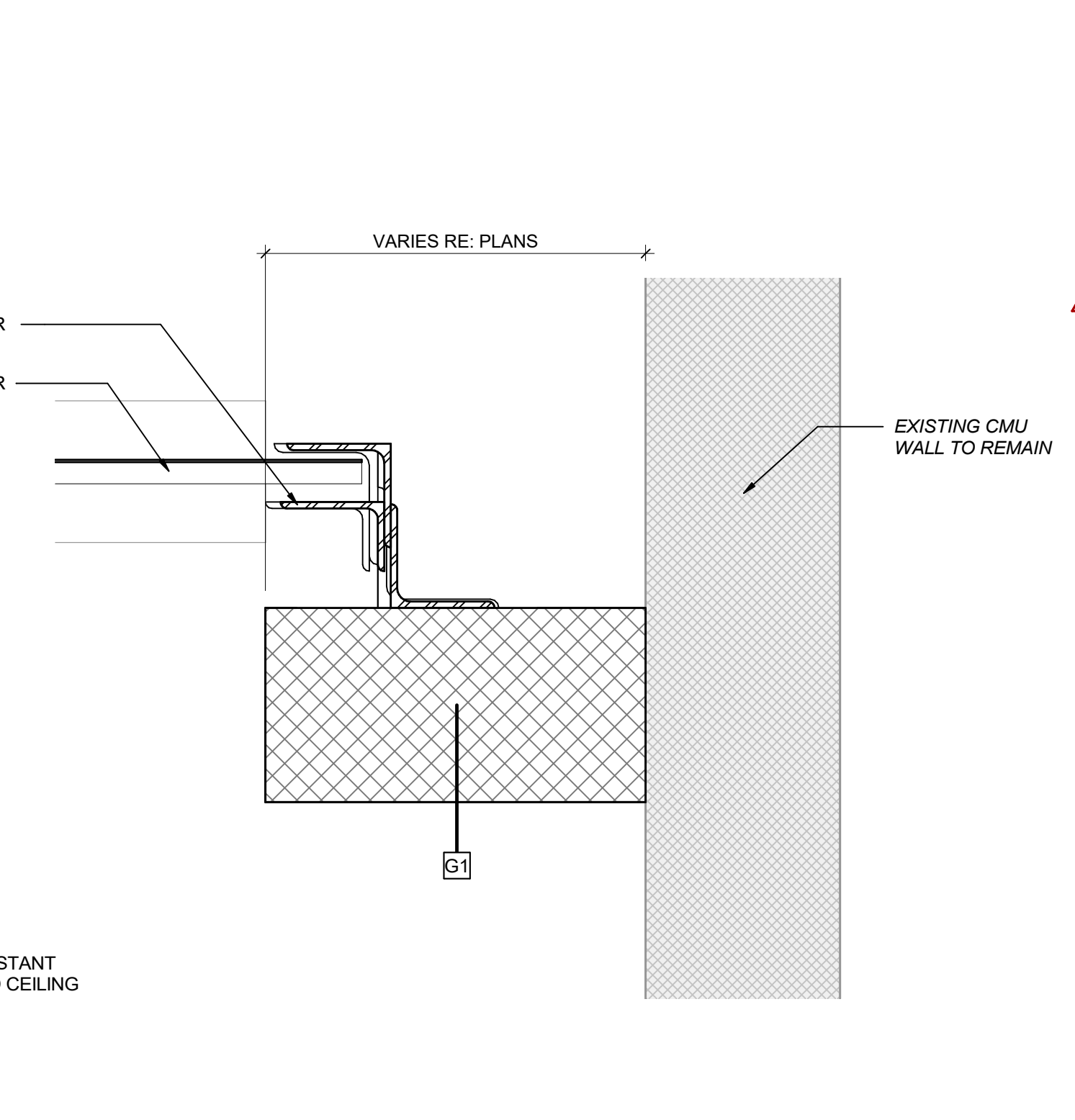
5 INT. H.M. - WINDOW SILL  
3" = 1'-0"



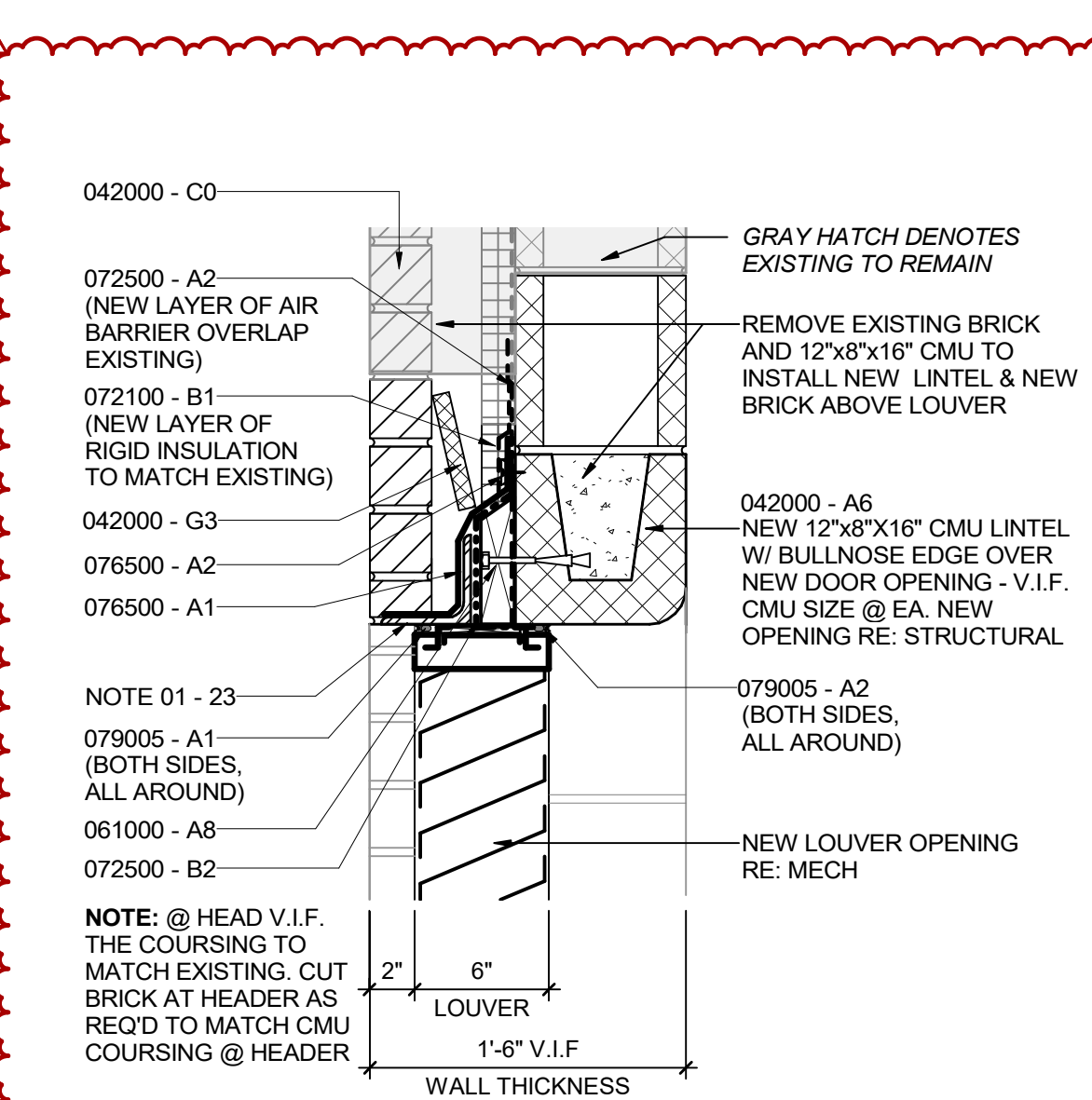
7 INT. ALUM. - DOOR JAMB  
3" = 1'-0"



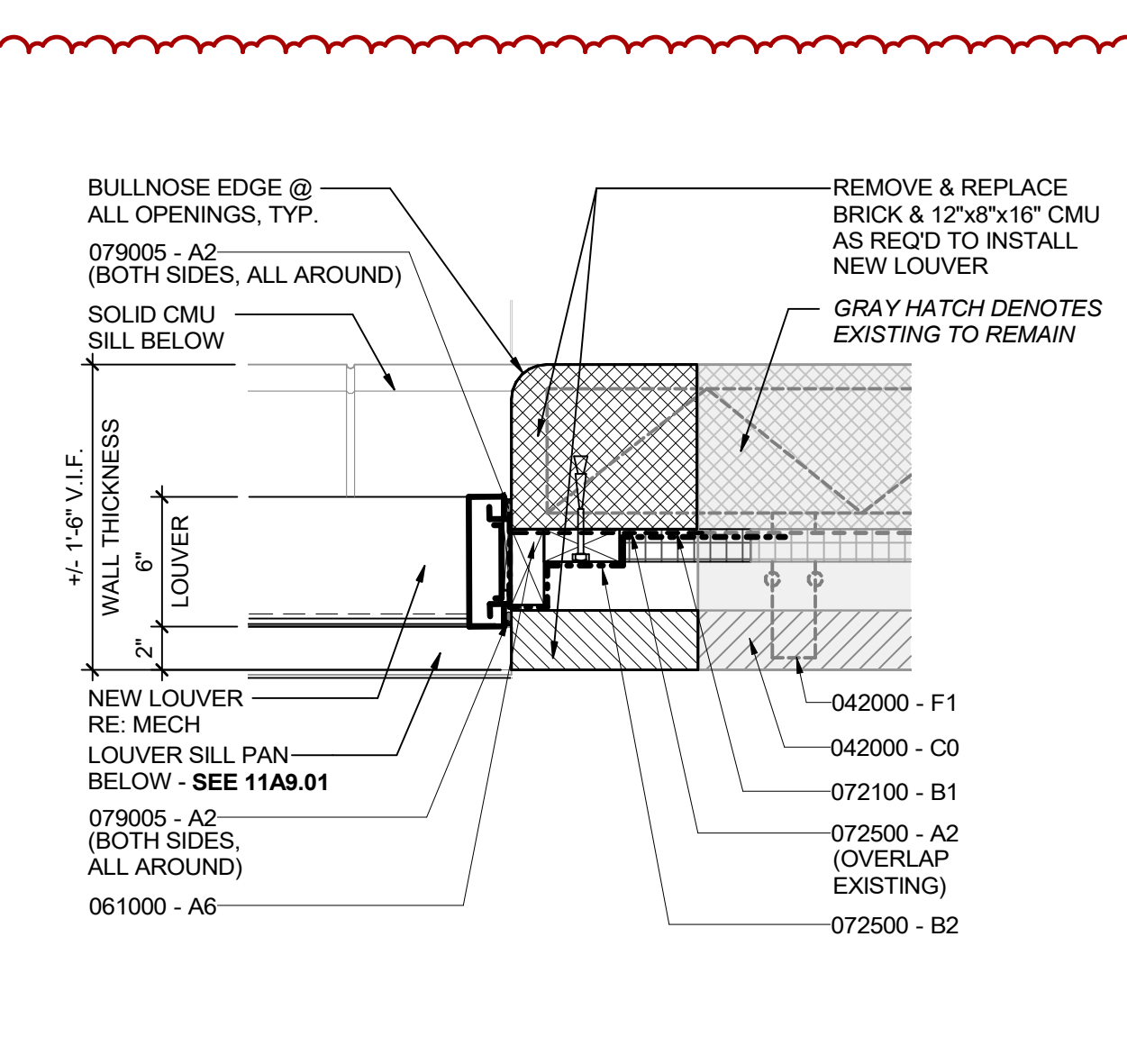
8 INT. DOOR - O/H ROLL UP LOCKER RM  
3" = 1'-0"



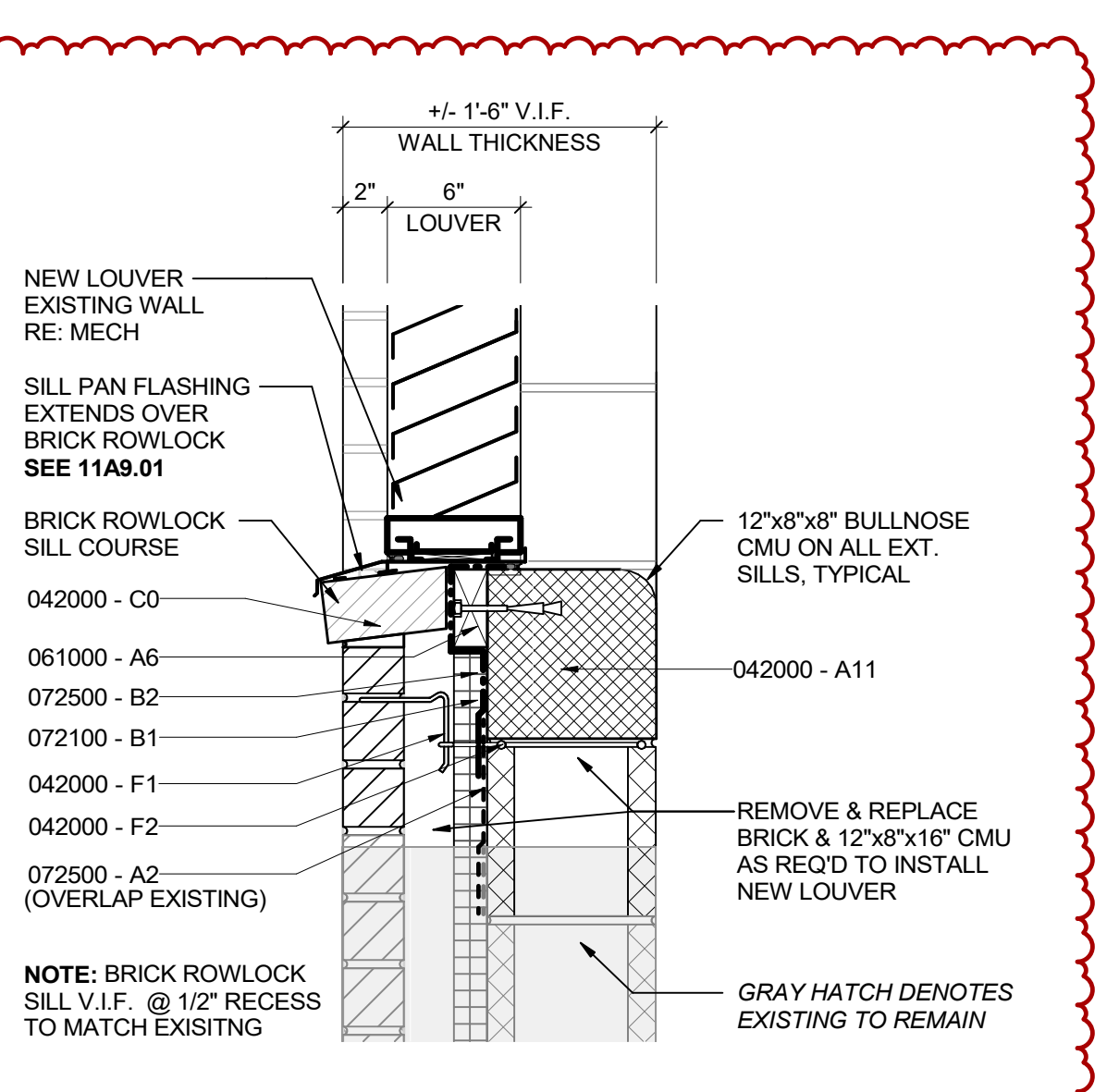
9 INT. DOOR - O/H ROLL UP LOCKER RM  
3" = 1'-0"



11 HEAD DETAIL - NEW LOUVER  
1 1/2" = 1'-0"



12 JAMB DETAIL - NEW LOUVER  
1 1/2" = 1'-0"



13 SILL DETAIL - NEW LOUVER  
1 1/2" = 1'-0"

**CONSTRUCTION DOCUMENT**

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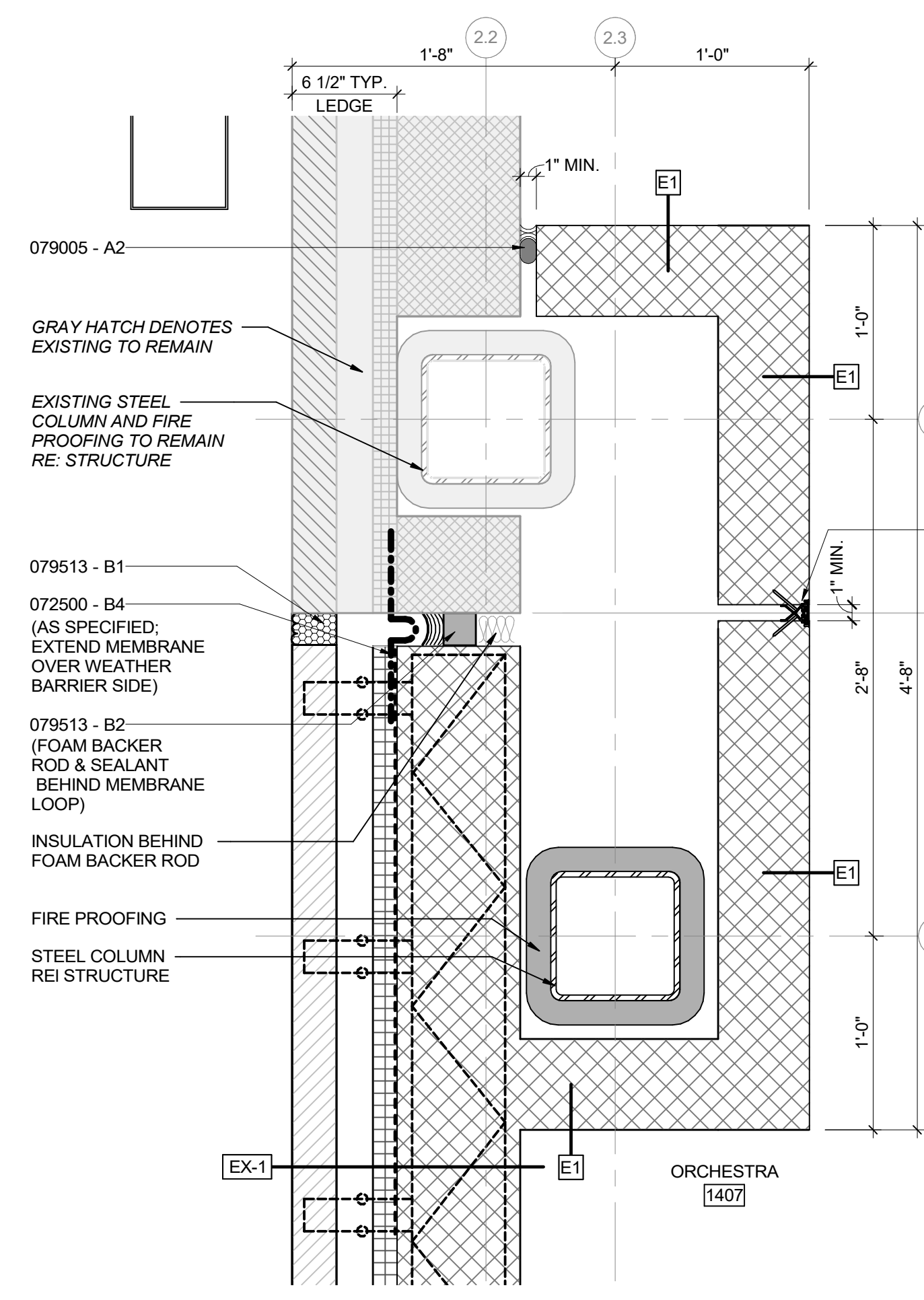
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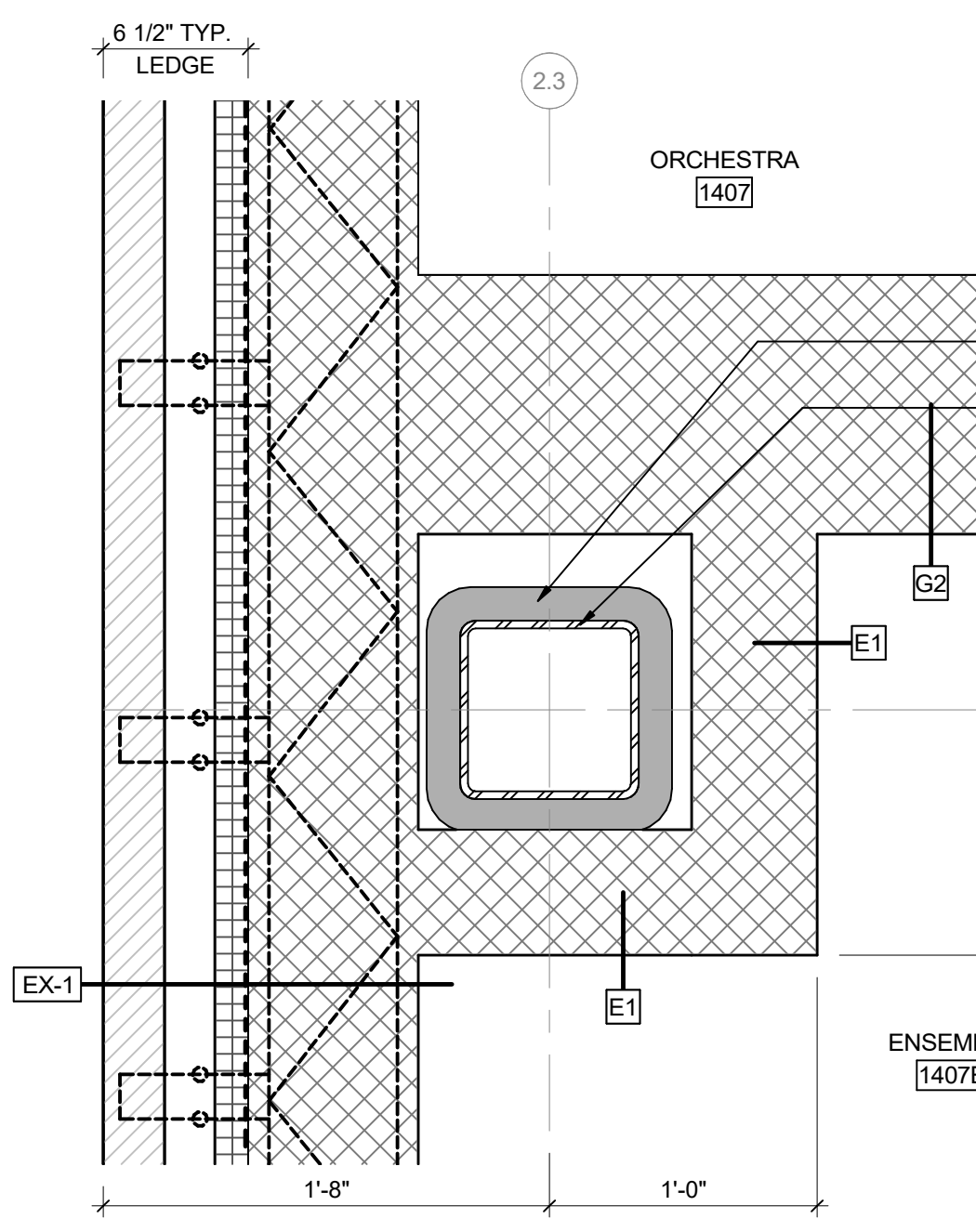
Project Number: 22084  
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OPENING TYPES & DETAILS

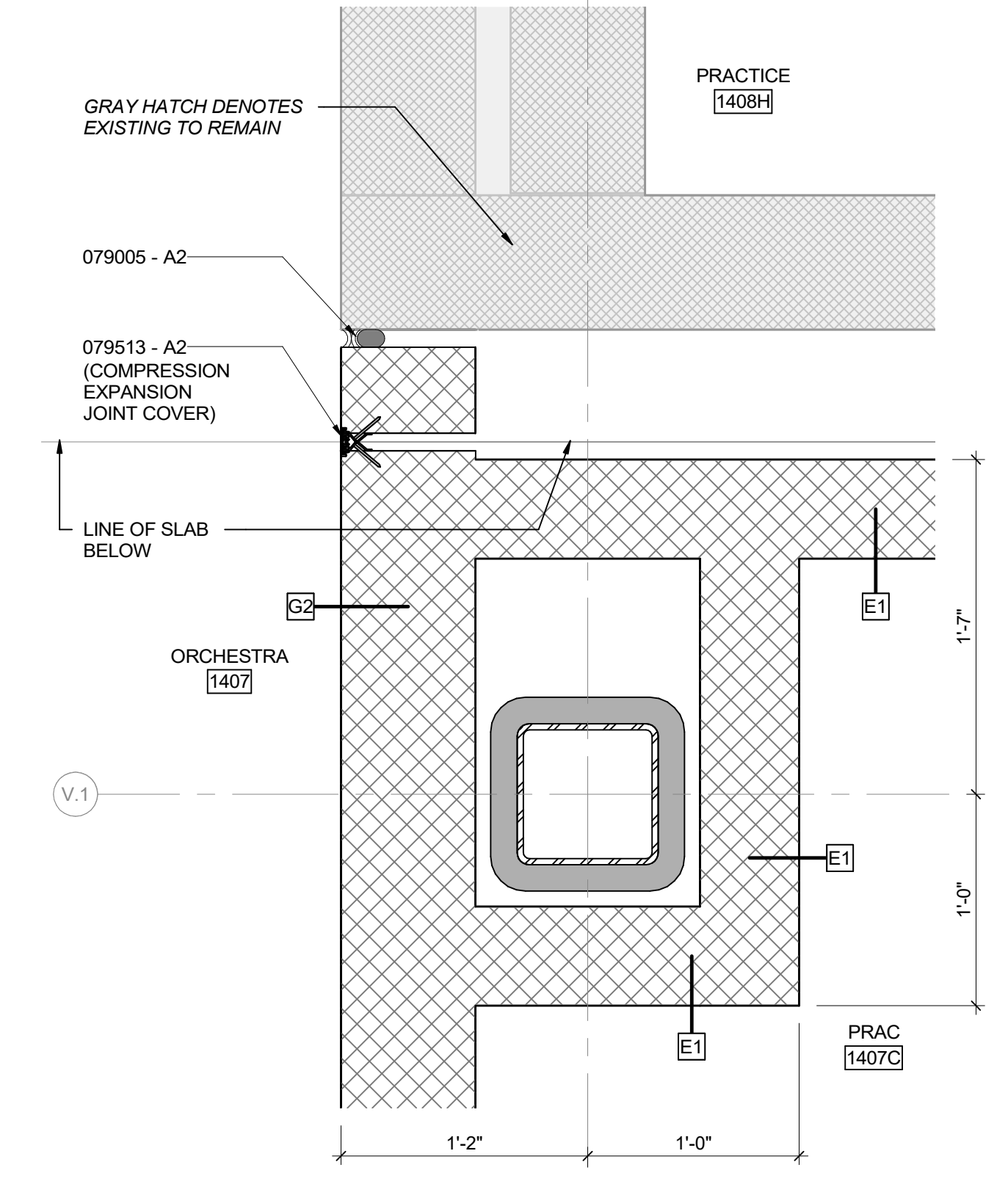




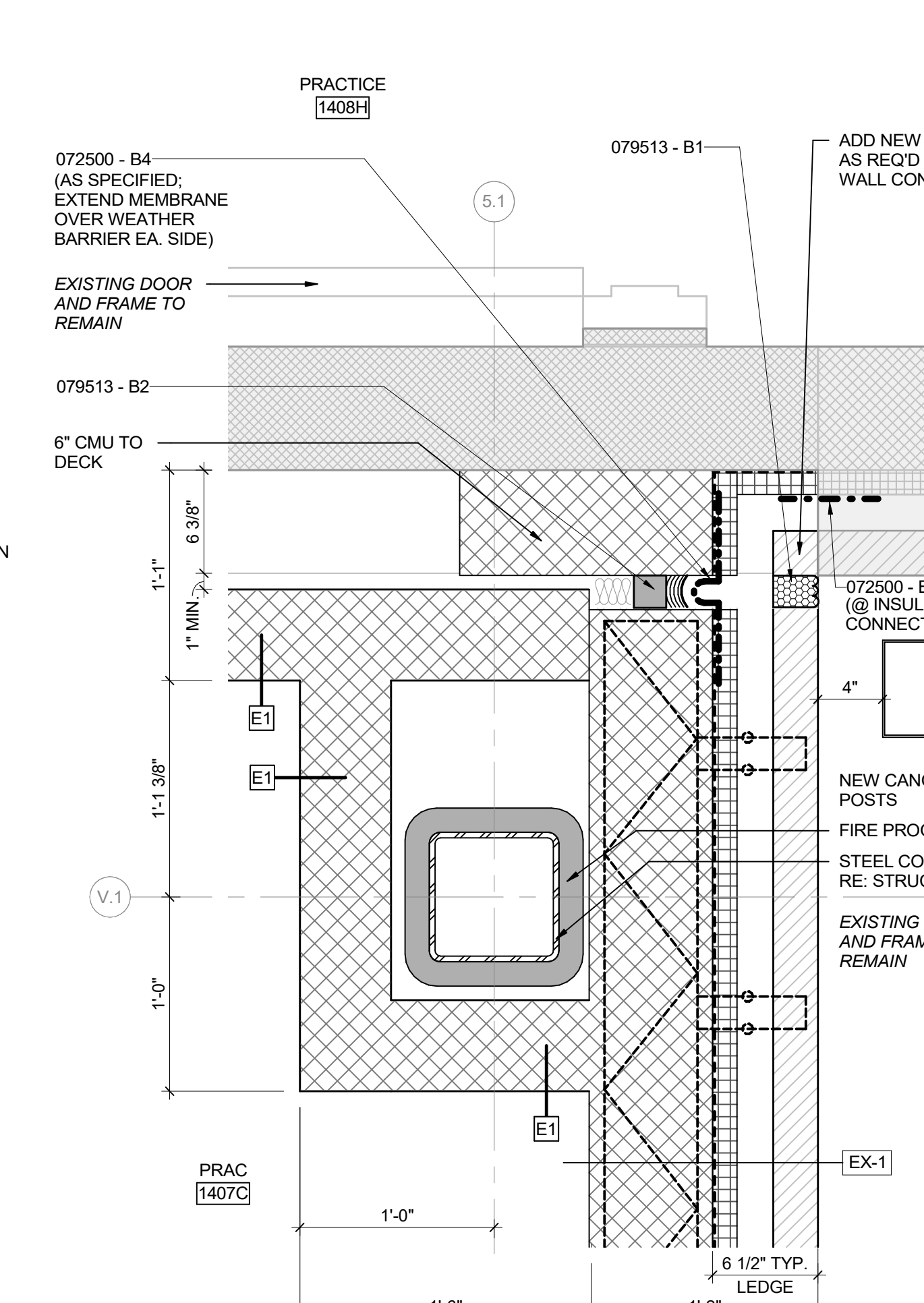
1 PLAN DETAIL - V.1 + 2.3  
1 1/2" = 1'-0"



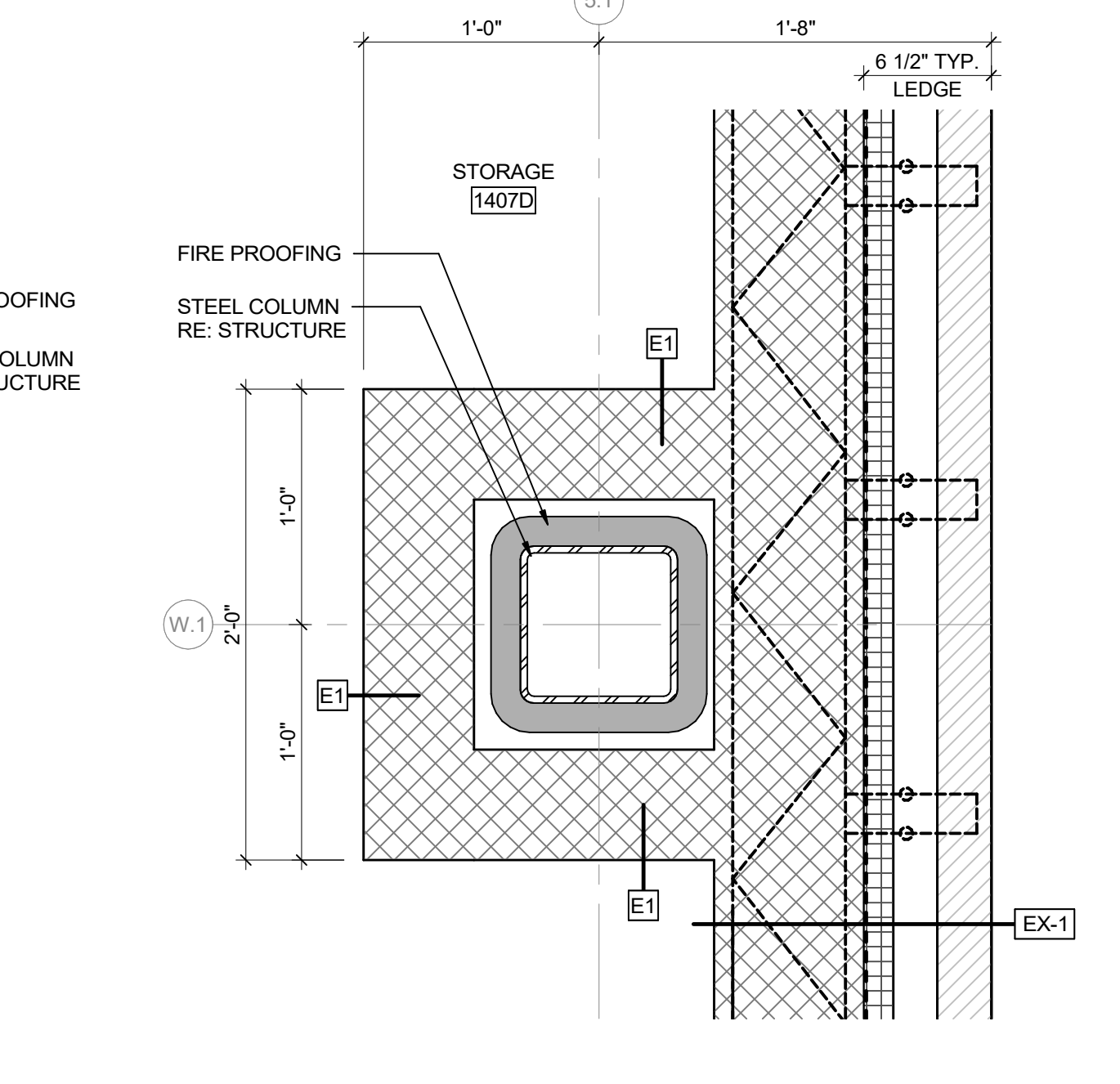
2 PLAN DETAIL - W.1 + 2.3  
1 1/2" = 1'-0"



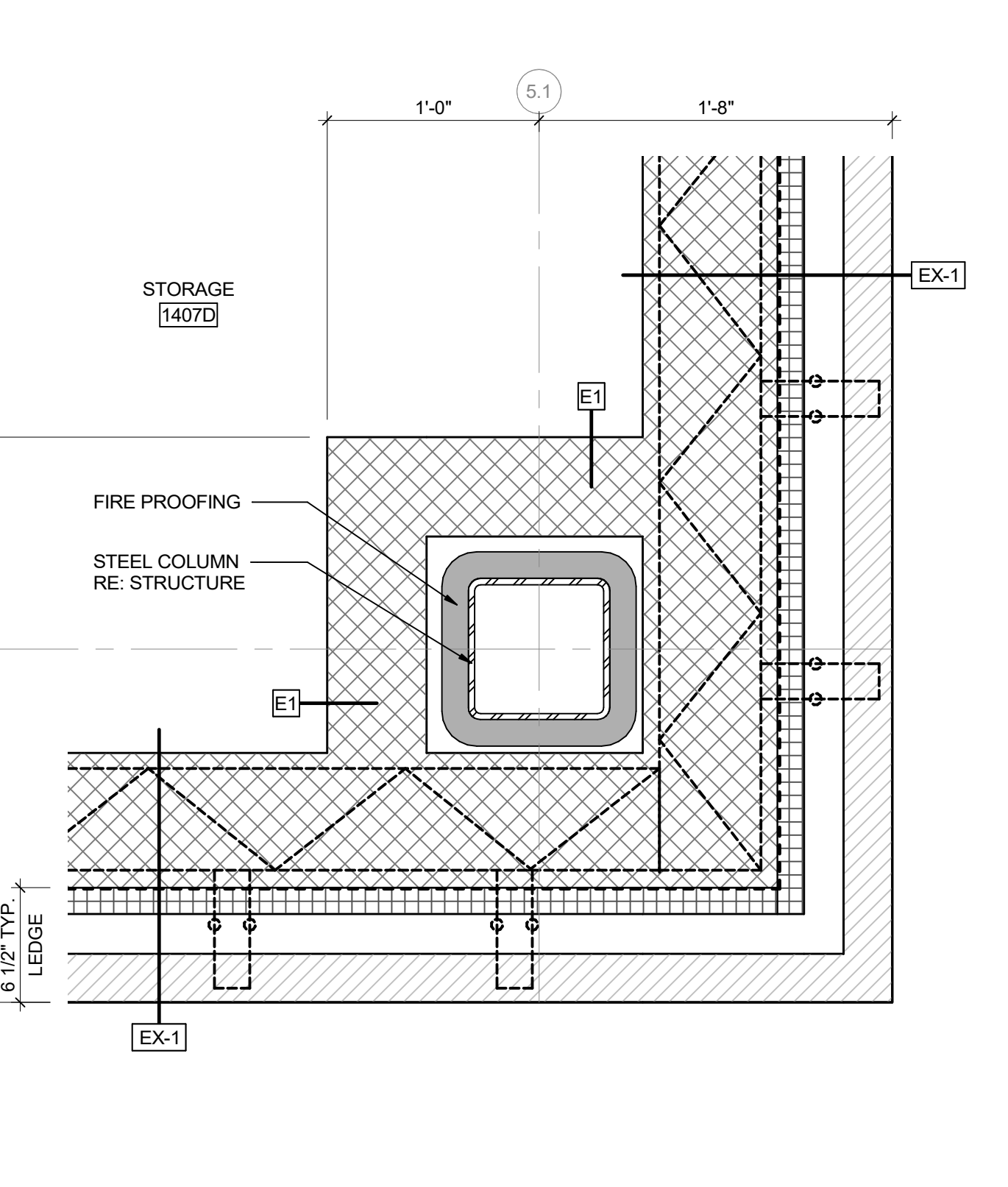
3 PLAN DETAIL - WALL EXP. JT.  
1 1/2" = 1'-0"



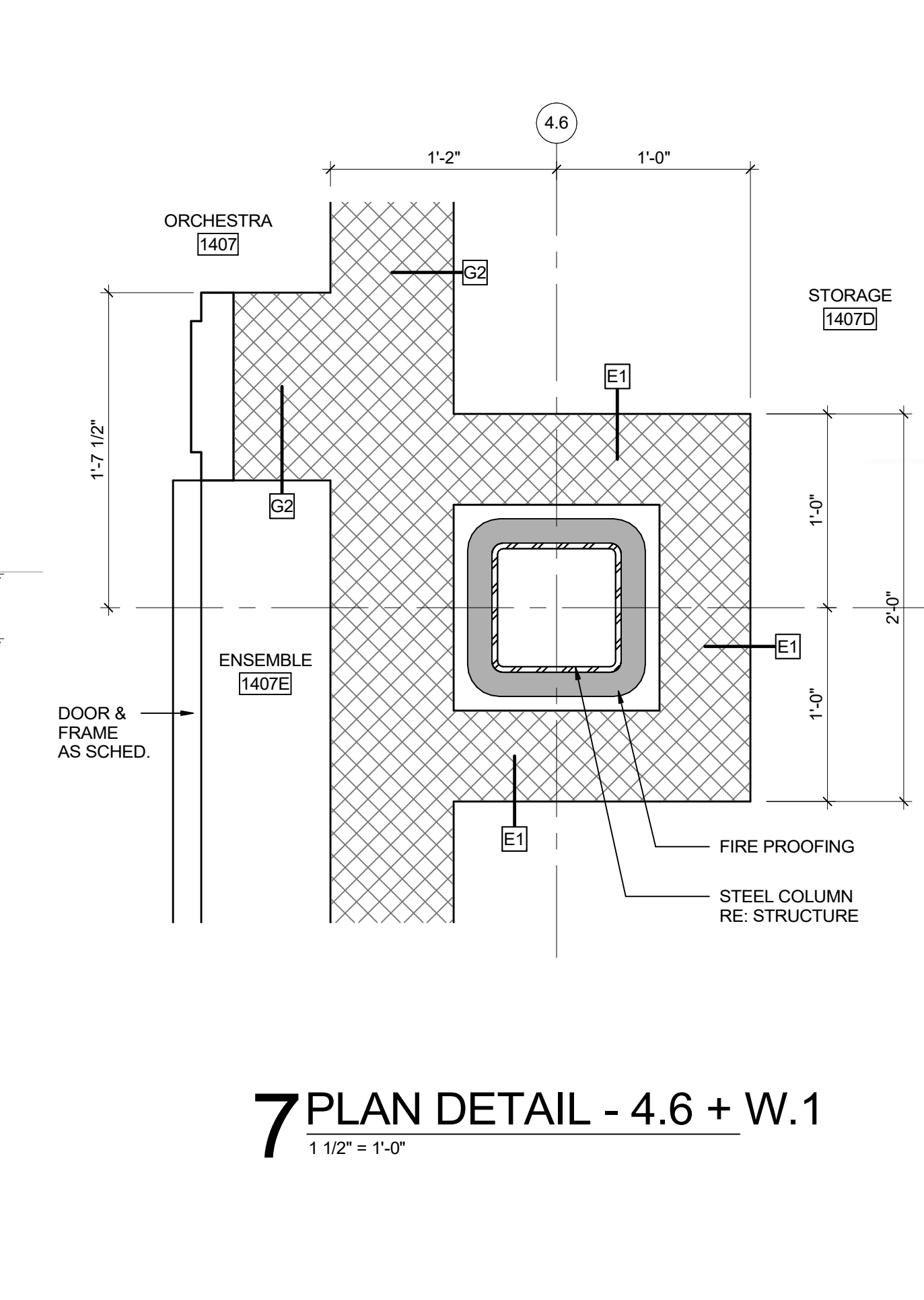
4 PLAN DETAIL - V.1 + 5.3  
1 1/2" = 1'-0"



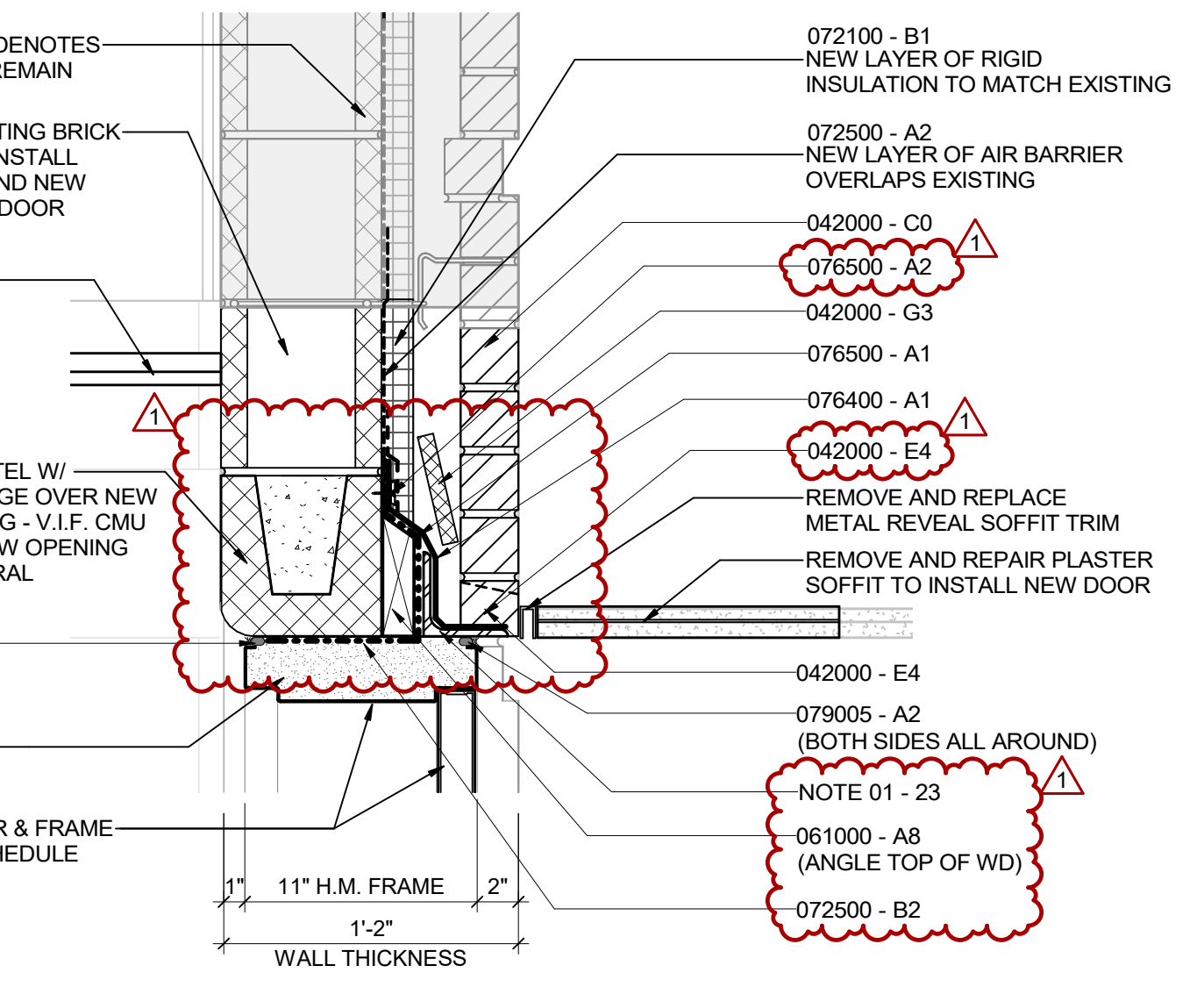
5 PLAN DETAIL - W.1 + 5.3  
1 1/2" = 1'-0"



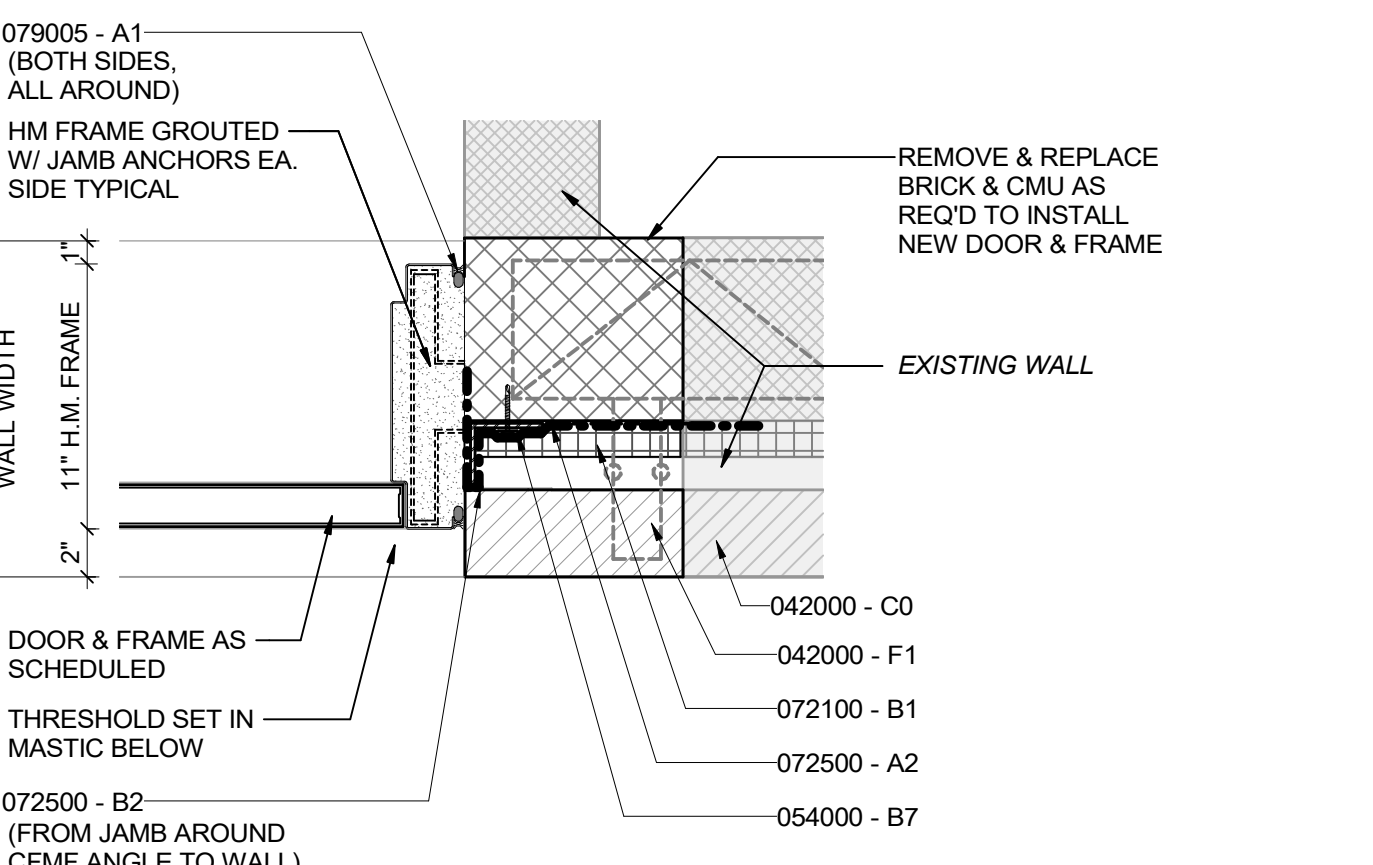
6 PLAN DETAIL - X.1 + 5.3  
1 1/2" = 1'-0"



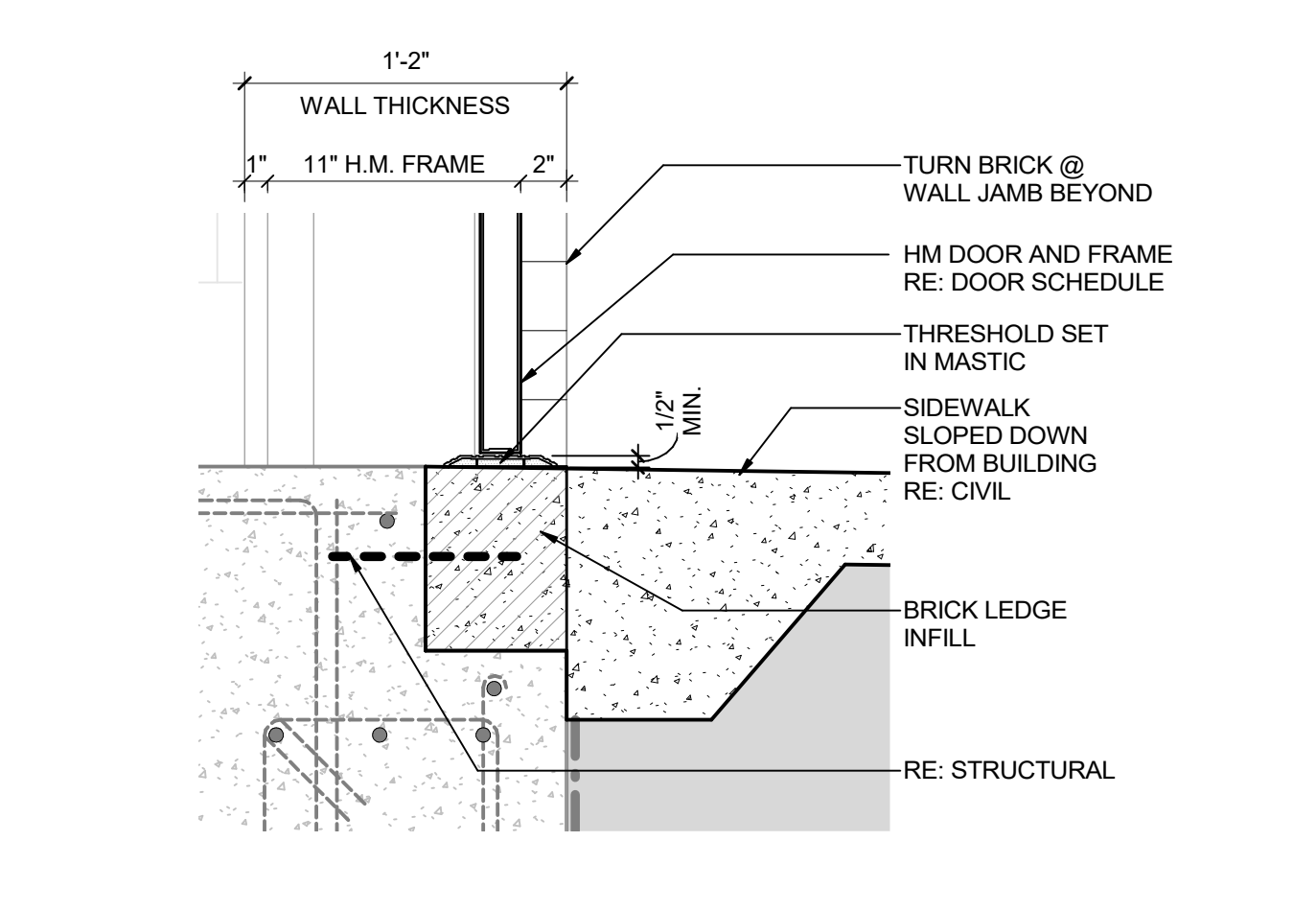
7 PLAN DETAIL - 4.6 + W.1  
1 1/2" = 1'-0"



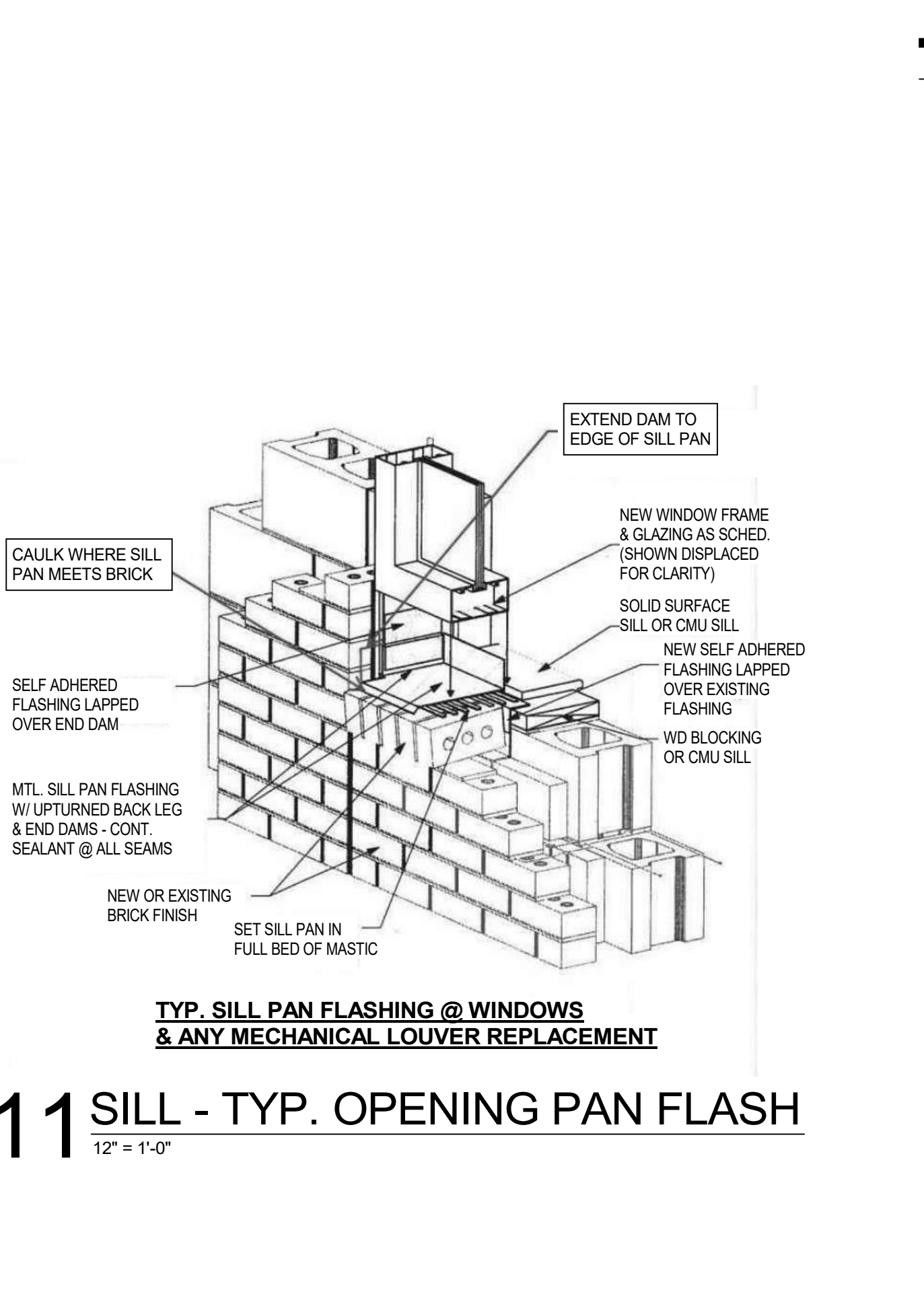
8 KILN RM. - H.M. DOOR HEAD  
1 1/2" = 1'-0"



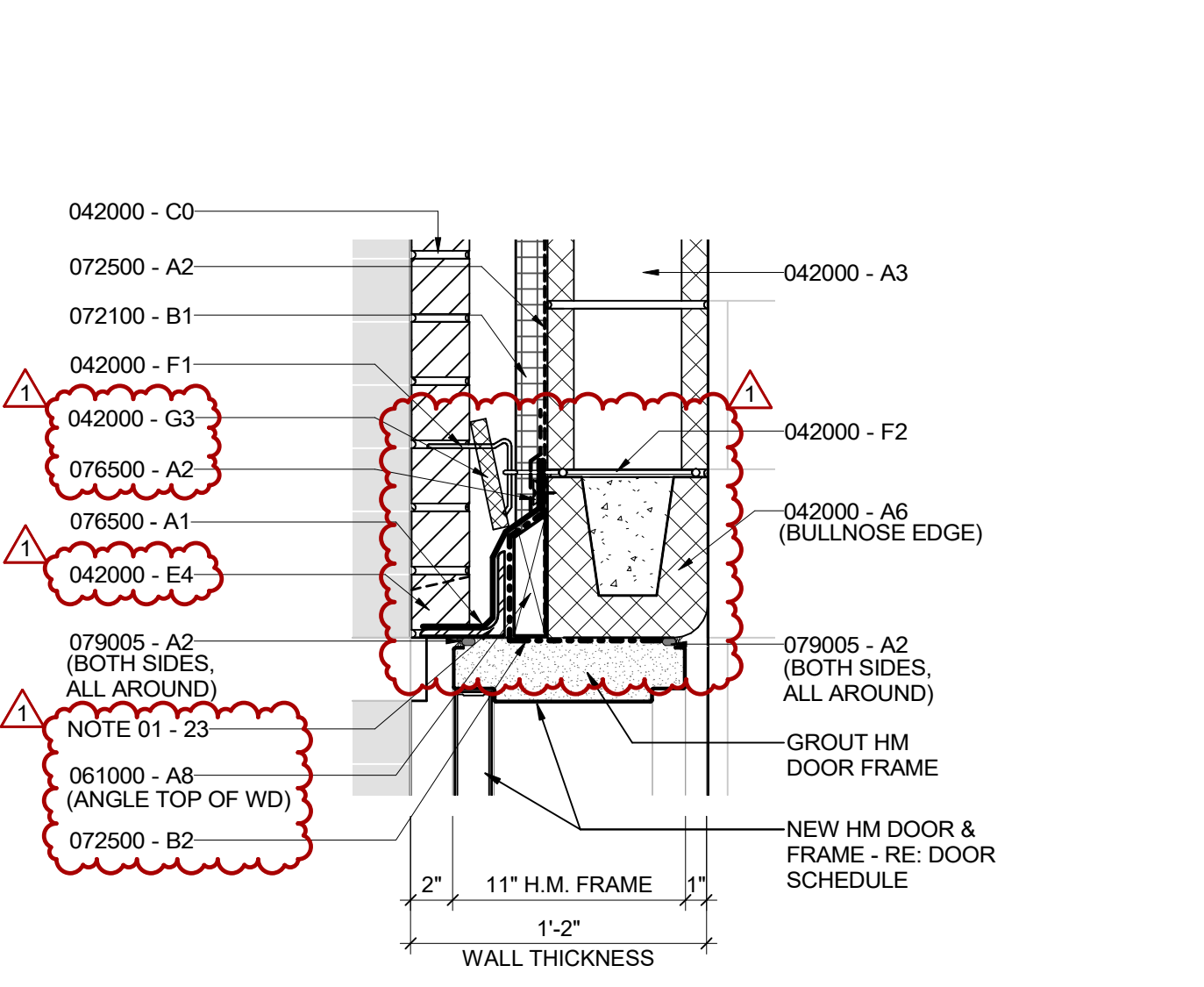
9 KILN RM. - H.M. DOOR JAMB  
1 1/2" = 1'-0"



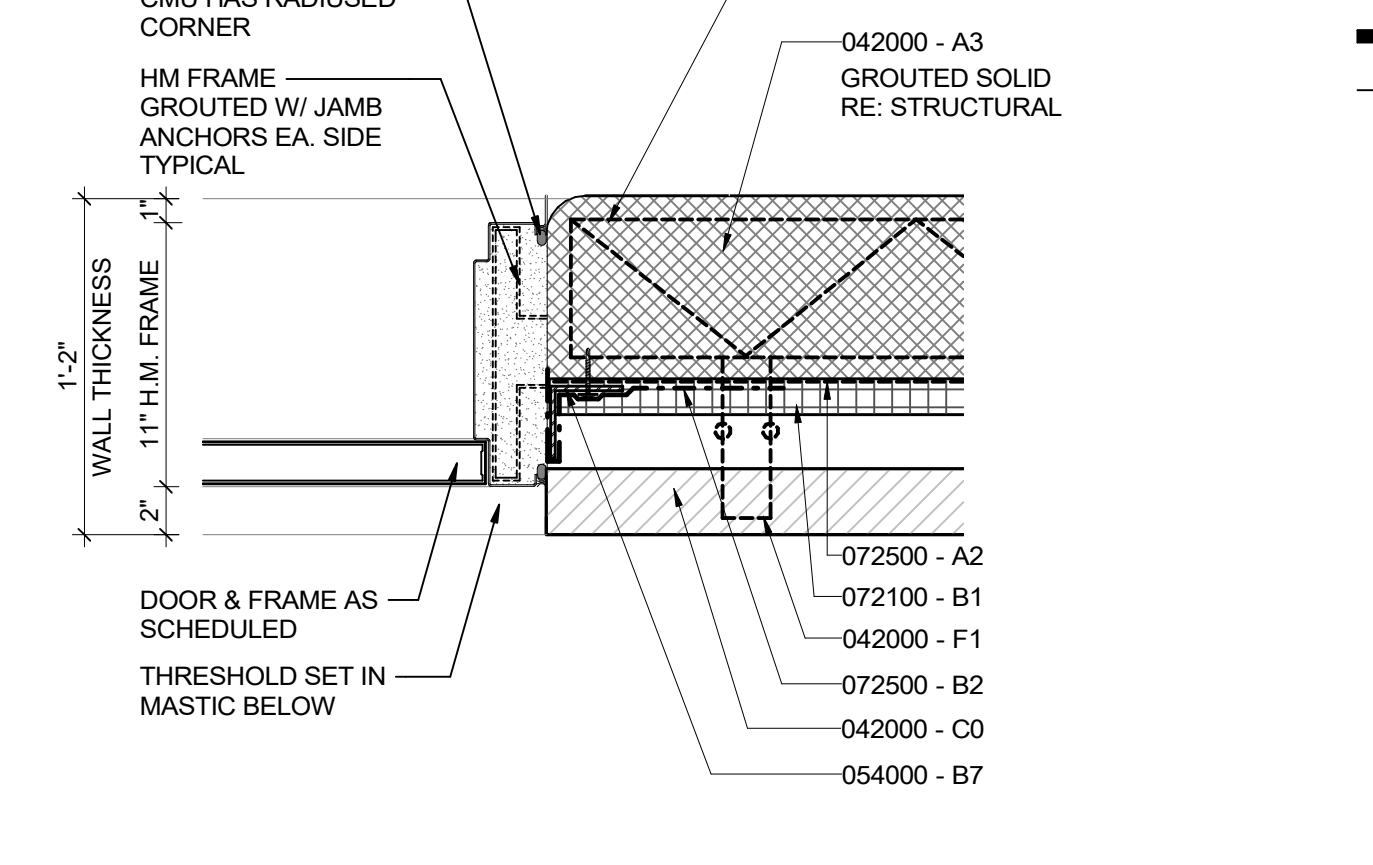
10 KILN RM. - H.M. DOOR THRESHOLD  
1 1/2" = 1'-0"



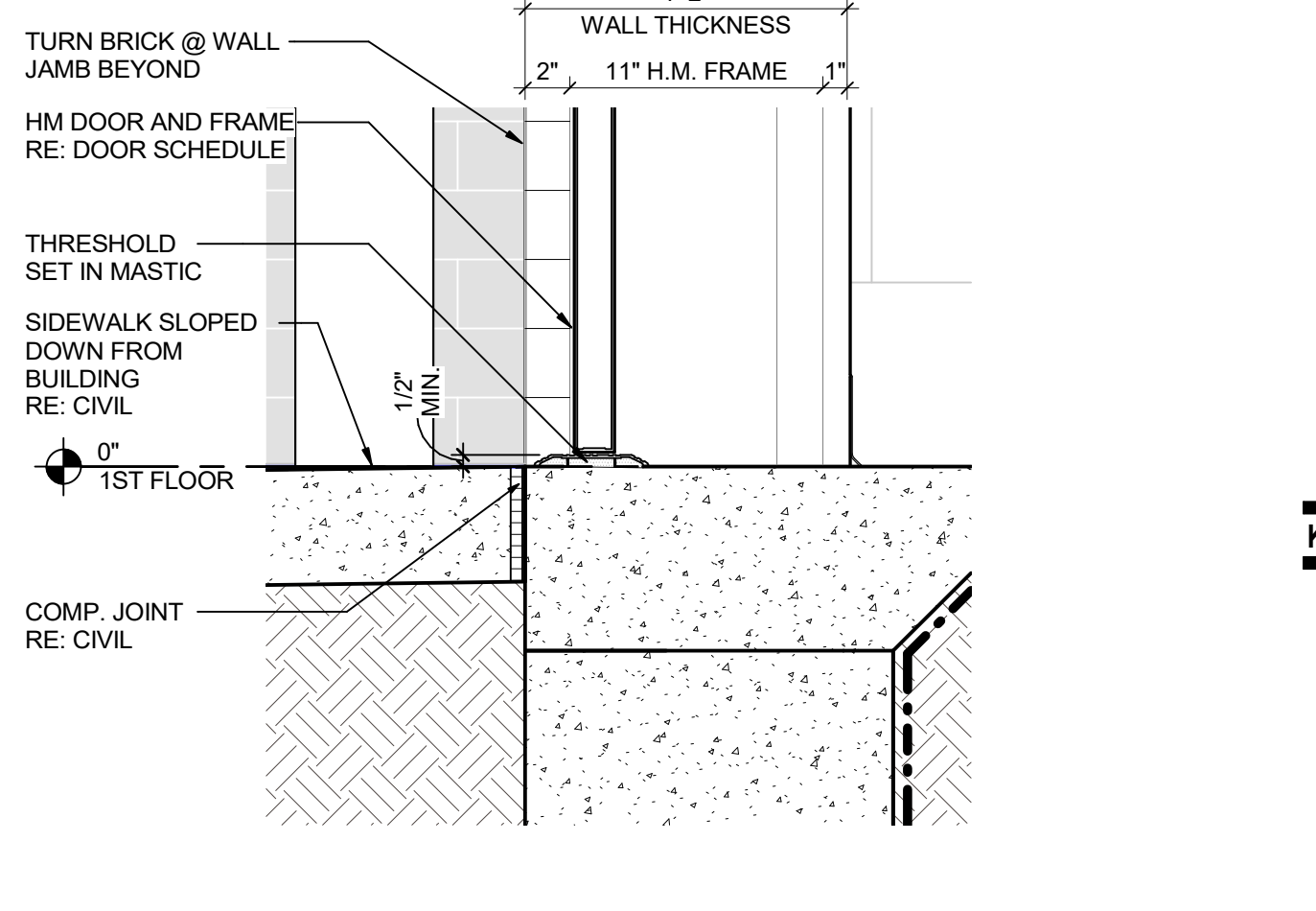
11 SILL - TYP. OPENING PAN FLASH  
1 1/2" = 1'-0"



12 EXT. H.M. DOOR HEAD  
1 1/2" = 1'-0"



13 EXT. H.M. DOOR JAMB  
1 1/2" = 1'-0"

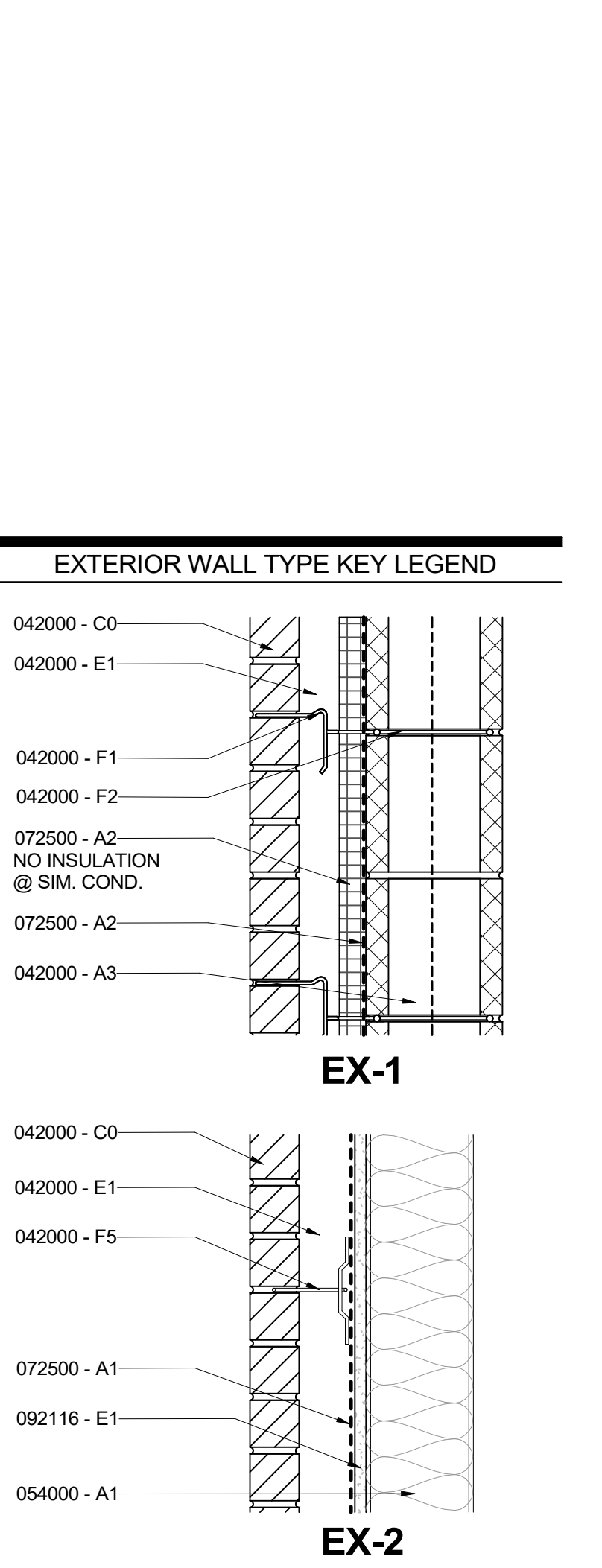


14 EXT. H.M. DOOR THRESHOLD  
1 1/2" = 1'-0"

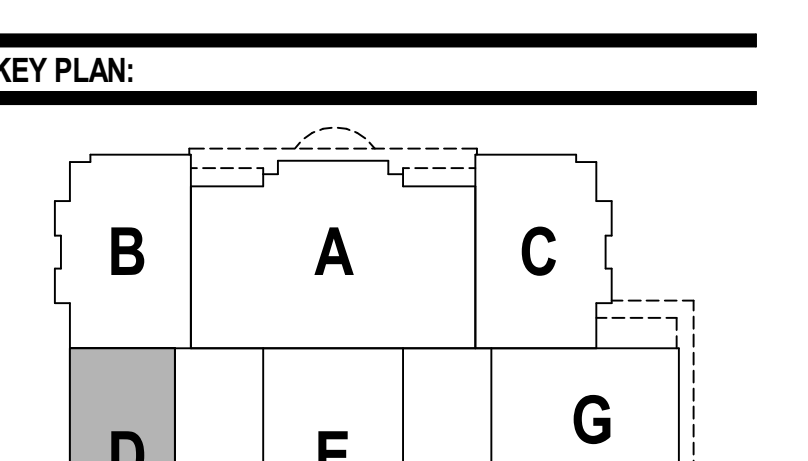
MATERIAL KEYNOTES

- 042000 - A3 8X8X16 CONCRETE MASONRY UNIT - RE: STRUCT
- 042000 - A6 U-SHAPED BOND BEAM BLOCK (WALL) OR LINTEL BLOCK (OPENING) - RE: STRUCT
- 042000 - C0 KING SIZED VENEER FACE BRICK - STRETCHER COURSES (RUNNING BOND) - SEE ELEVATIONS FOR BANDING & COLOR
- 042000 - E1 AIR SPACE
- 042000 - E4 OPEN HEAD JOINT AT 24" O.C. MAX (WEEP) - FILLED WITH MOLDED PVC GRILLE, INSECT RESISTANT
- 042000 - F1 ADJUSTABLE MASONRY VENEER WALL TIES AT 15" O.C. VERTICALLY MAX (16" O.C. STD BRICK) AND 16" O.C. HORIZONTALLY MAX - FOR UNEVEN WYTHES OF BRICK & CMU
- 042000 - F2 ADJUSTABLE HORIZONTAL TRUSS REINFORCEMENT WITH EYE-WIRE FOR ADJUSTABLE TIES @ 16" O.C. VERTICALLY MAX @ CMU - FOR WYTHES OF KING SIZED BRICK & STANDARD CMU
- 042000 - F5 ADJUSTABLE MASONRY WALL ANCHOR 15" OC EA WAY @ METAL STUD WALLS TYPICAL
- 042000 - G3 MORTAR NET TYPICAL AT ALL THRU WALL FLASHINGS
- 054000 - A1 6" METAL STUD WALL FRAMING (CFMF) - RE: STRUCTURAL
- 054000 - B7 3" X 3" COLD FORM CONTINUOUS METAL ANGLE SPANNING AIR GAP @ OPENING JAMBS TYPICAL (CFMF)
- 061000 - A8 2X6 TREATED WOOD BLOCKING OR NAILER (@ ROOFING SEE SPEC SECTION 061005)
- 072100 - B1 RIGID WALL INSULATION - 1-1/2" THICK IN WALL CAVITY - RE: SPECS
- 072500 - A1 FLUID APPLIED AIR BARRIER OVER EXTERIOR SHEATHING
- 072500 - A2 FLUID APPLIED AIR BARRIER OVER EXTERIOR CMU
- 072500 - B2 SELF-ADHERING FLASHING MEMBRANE @ WALL OPENINGS
- 072500 - B3 SELF-ADHERING TRANSITION MEMBRANE @ WALL CONNECTIONS
- 072500 - B4 SELF-ADHERING TRANSITION MEMBRANE LOOPED INTO EXPANSION JOINT @ NEW & EXISTING WALL CONNECTION
- 076400 - A1 COMBINATION FLEXIBLE SHEET FLASHING (076500), MORTAR DEFLECTION & WEEP AS COMPLETE ONE-STEP SYSTEM RE: SPECS
- 076500 - A1 FLEXIBLE THRU-WALL FLASHING - STAINLESS STEEL CORE W/ POLYMER FABRIC LAMINATED TO BOTTOM OF SS FACE W/ ADHESIVE
- 076500 - A2 TERMINATION BAR W/ SELF TAPPING SCREWS
- 079005 - A1 BACKING REPLACEMENT AROUND ALL SIDES OF EXTERIOR WALL OPENINGS & PENETRATIONS
- 079005 - A2 JOINT SEALANT AND CYLINDRICAL SEALANT BACKING
- 079513 - A2 WALL EXPANSION JOINT COVER ASSEMBLY - SINGLE GASKET EXPANSION JOINT COVER; RE: SPECIFICATIONS
- 079513 - B1 EXPANDABLE WALL EXPANSION JOINT; HIGH DENSITY, OPEN MICRO-CELL IMPREGNATED POLYURETHANE FOAM WITH A FACTORY-APPLIED SILICONE - SEAL COLOR TBD BY ARCHITECT; RE: SPECIFICATIONS
- 079513 - B2 FOAM EXPANSION JOINT BACKER ROD & SEALANT @ EXP JT
- 082116 - E1 5/8" GLASS MAT GYPSUM BOARD SHEATHING - RE: SPECS
- NOTE 01 - 23 STEEL ANGLE - RE: STRUCTURAL

EXTERIOR WALL TYPE KEY LEGEND



KEY PLAN:



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PLAN DETAILS  
**A9.01**



**LINETYPE LEGEND**

---	EXISTING TO REMAIN
----	DISCONNECT AND REMOVE
---	NEW WORK

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

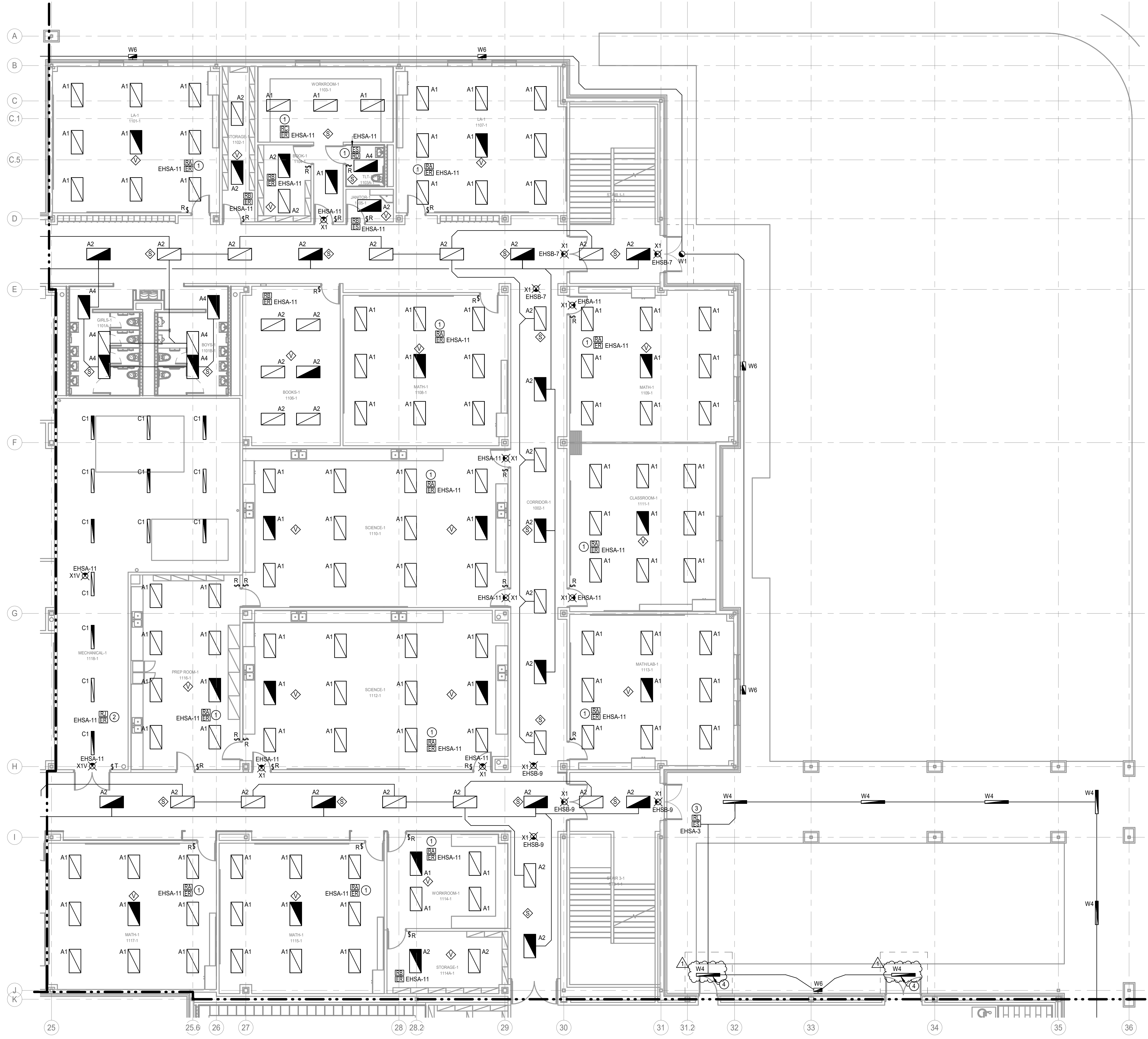
PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED/UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL.

**LIGHTING GENERAL NOTES**

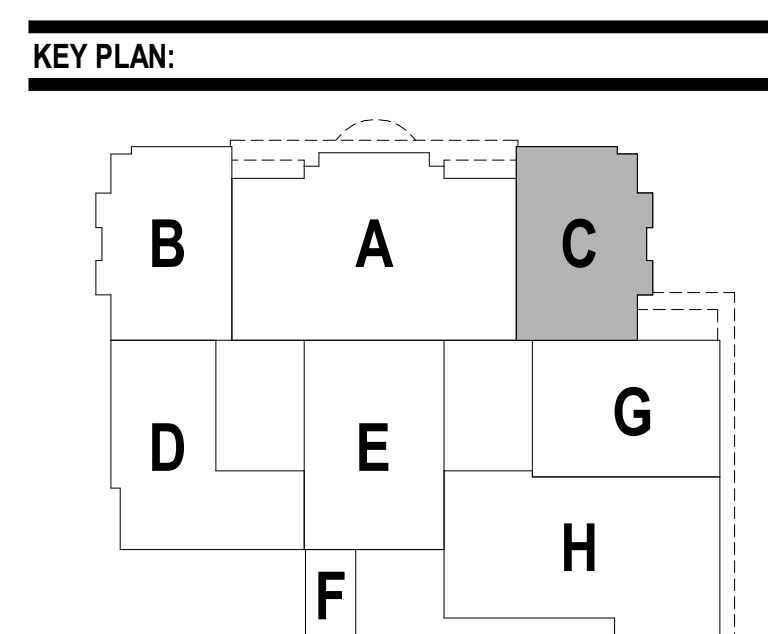
- CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL POWER CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN. PROVIDE EMERGENCY CIRCUIT FOR MATCHED FIXTURES AND/OR EXISTING WIRING WITH MATCHING CONDUCTORS/CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 3500 W @ 277V. TYPICAL.
- LOCATION OF NEW/REPLACEMENT LIGHT FIXTURES SHALL RE-USE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESSIBLE CEILING WITH 1/2-INCH FLEXIBLE STEEL CONDUIT OR STEEL W/ CABLE LENGTH NOT TO EXCEED 6-FEET. "DAISY CHAINING" LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR NON-ACCESSIBLE CEILINGS, LIGHT FIXTURE WHIPS SHALL BE 1/2-INCH FLEXIBLE STEEL CONDUIT. LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILINGS MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL, UL LISTED, J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26 05 33 CONDUIT SYSTEMS.
- PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES. 20A EMERGENCY LOAD CONTROL RELAYS AND/OR TRANSFER SWITCHES. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
- LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY ABOVE ACCESSIBLE CEILING 12-24" AFF OR BELOW ADJACENT TO SWITCH CONTROLLING THE SPACE. IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING. IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO PANEL SERVING THE LOAD. PROVIDE PLASTIC TAPE MACHINE TYPED NAME PLATE TO BOTTOM OF CEILING T-GRID. BELOW RELAY LOCATION, WRITE LETTERS ON BLACK BACKGROUND WITH 1/4" HIGH LETTERS ON 1/2" TALL LABEL FOR DIGITAL MODULE. INDICATE AS: DIM.
- LOCATE DIGITAL LIGHTING CONTROLLER FOR HIGH CEILING CORRIDORS, GYM AND OTHER HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING PER SPECIFICATIONS.
- LOCATE DIGITAL LIGHTING CONTROLLER FOR INSTRUCTIONAL SPACES AND OFFICES ABOVE ACCESSIBLE CEILING IN CORRIDOR DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE. GRID MARKERS WITH WORDING PER SPECIFICATIONS.
- OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED. CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IEC-2015 CODE.
- SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
- MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.
- COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
- PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33.

**ELECTRICAL KEYED NOTES**

- LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH ABOVE ACCESSIBLE CEILING IN CORRIDOR / ANCILLARY SPACE DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE. GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
- LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH WALL MOUNTED ADJACENT TO NORMAL POWER PANEL. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
- INTERCEPT EXISTING NORMAL POWER CIRCUIT HOME RUN AND PROVIDE PER CIRCUIT (1) LISTED UL1008 TRANSFER SWITCH (1) CONTACTOR WITH POLE QUANTITY AS REQUIRED CONTROLLED WITH BMCS. LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. RE-USE EXISTING NORMAL POWER CIRCUIT AND NEW EMERGENCY POWER CIRCUIT AS SHOWN. EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
- DO NOT PENETRATE TOP OF CANOPY.

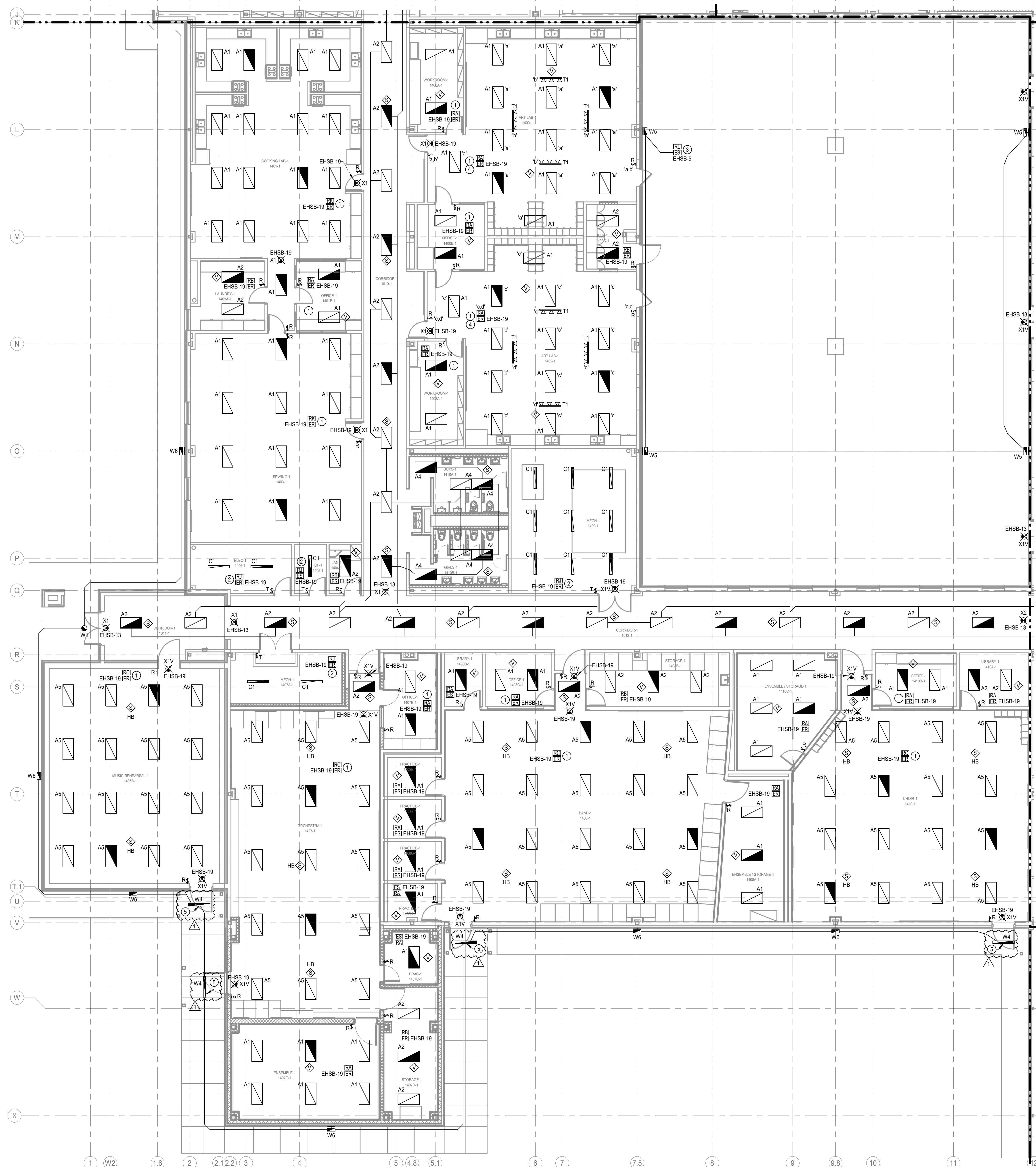


**1 ELECTRICAL LIGHTING 1ST FLOOR - AREA 'C'**  
 Scale: 1/8" = 1'-0"



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**HOPPER MIDDLE SCHOOL**  
 7811 FRY RD, CYPRESS, TX 77433  
 CFSID PROJECT NO: 24-02-5750-R-RFP

Project Number: 22084  
 Date: 29 DECEMBER 2024  
 Drawn by: LT  
**ELECTRICAL LIGHTING**  
**1ST FLOOR PLAN - AREA**  
**'C'**  
**E2.03**



**1 ELECTRICAL LIGHTING 1ST FLOOR - AREA 'D'**  
Scale: 1/8" = 1'-0"

**Salas O'Brien**  
salesobrien.com 281-664-1900  
Houston 10930 W. Sam Houston Pkwy North, Suite 900  
Houston, TX 77064  
Registration: F-4111  
Project No: 2024-00211-00

**LINETYPE LEGEND**

---	EXISTING TO REMAIN
---	DISCONNECT AND REMOVE
---	NEW WORK

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED/UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL.

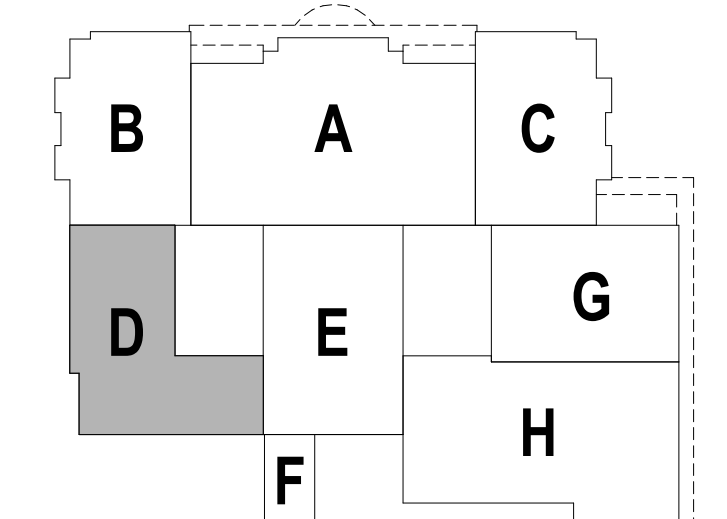
**LIGHTING GENERAL NOTES**

- CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL POWER CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN. PROVIDE EMERGENCY CIRCUIT FOR HATCHED FIXTURES AND/OR EXISTING WIRING WITH MATCHING CONDUCTORS/CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 3500 W @ 277V. TYPICAL.
- LOCATION OF NEW/REPLACEMENT LIGHT FIXTURES SHALL RE-USE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESSIBLE CEILING WITH 1/2-INCH FLEXIBLE STEEL CONDUIT. LENGTH NOT TO EXCEED 6-FEET. 'DAISY CHAINING' LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR NON-ACCESSIBLE CEILINGS, LIGHT FIXTURE WHIPS SHALL BE 1/2-INCH FLEXIBLE STEEL CONDUIT. LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILINGS MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL, UL LISTED, J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26 05 33 CONDUIT SYSTEMS.
- PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES. 20A EMERGENCY LOAD CONTROL RELAYS AND/OR TRANSFER SWITCHES, REFER TO SPECIFICATIONS AND DETAIL SHEETS.
- LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY ABOVE ACCESSIBLE CEILING 12 FEET AFF OR BELOW ADJACENT TO SWITCH CONTROLLING THE SPACE. IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING. IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO PANEL SERVING THE LOAD. PROVIDE PLASTIC TAPE MACHINE TYPED NAME PLATE TO BOTTOM OF CEILING T-GRID. BELOW RELAY LOCATION, WRITE LETTERS ON BLACK BACKGROUND WITH 1/4" HIGH LETTERS ON 1/2" TALL LABEL FOR DIGITAL MODULE. INDICATE AS: DIM.
- LOCATE DIGITAL LIGHTING CONTROLLER FOR HIGH CEILING CORRIDORS, GYM AND OTHER HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING PER SPECIFICATIONS.
- LOCATE DIGITAL LIGHTING CONTROLLER FOR INSTRUCTIONAL SPACES AND OFFICES ABOVE ACCESSIBLE CEILING IN CORRIDOR DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE. GRID MARKERS WITH WORDING PER SPECIFICATIONS.
- OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED. CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IEC-2015 CODE.
- SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
- MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.
- COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
- PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33.

**ELECTRICAL KEYED NOTES**

- LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH ABOVE ACCESSIBLE CEILING IN CORRIDOR / ANCILLARY SPACE DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE. GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
- LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH WALL MOUNTED ADJACENT TO NORMAL POWER PANEL. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
- INTERCEPT EXISTING NORMAL POWER CIRCUIT HOME RUN AND PROVIDE PER CIRCUIT (1) LISTED UL1008 TRANSFER SWITCH; (1) CONTACTOR WITH POLE QUANTITY AS REQUIRED CONTROLLED WITH BMCS. LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. RE-USE EXISTING NORMAL POWER CIRCUIT AND NEW EMERGENCY POWER CIRCUIT AS SHOWN. EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
- PROVIDE 120 V REVERSE-PHASE DIMMING FOR TRACK LIGHTING.
- DO NOT PENETRATE TOP OF CANOPY.

**KEY PLAN:**



**NATEX CORPORATION ARCHITECTS**  
www.natearchitects.com  
447 Heights Boulevard  
Houston, TX 77007  
Phone: 713-975-9525  
Fax: 713-780-7824

**Coleman Partners ARCHITECTS**  
3701 Kirby Drive, Suite 830  
Houston, TX 77098  
tel: 832.947.1038 fax: 282.214.5365

**BID DOCUMENTS**  
BRADLEY KALMANS  
80219  
01/16/2025

**CIVIL ENGINEER BROOKS AND SPARKS, INC.**  
21020 PARK ROW  
KATY, TX 77449  
tel: 281.578.9595

**STRUCTURAL ENGINEER DALLY + ASSOCIATES, INC.**  
9800 RICHMOND AVE. SUITE 400  
HOUSTON, TX 77042  
tel: 713.337.8881

**MEPT ENGINEER SALAS O'BRIEN**  
10930 W. SAM HOUSTON PKWY. N. SUITE 900  
HOUSTON, TX 77064  
tel: 281.664.1900

**FOOD SERVICE EQUIPMENT FDP**  
25317 INTERSTATE 45  
THE WOODLANDS, TX 77380  
tel: 281.350.2323

**LANDSCAPE LANDSCAPE GROUP**  
17041 EL CAMINO REAL, STE 204  
HOUSTON, TX 77058  
tel: 281.486.4040

**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**HOPPER MIDDLE SCHOOL**  
7811 FRY RD, CYPRESS, TX 77433  
CFISD PROJECT NO: 24-02-5750-R-RFP

Project Number: 22084  
Date: 29 DECEMBER 2024  
Drawn by: LT  
**ELECTRICAL LIGHTING**  
1ST FLOOR PLAN - AREA 'D'  
**E2.04**



### ELECTRICAL KEYED NOTES

1. LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH ABOVE ACCESSIBLE CEILING IN CORRIDOR / ANCILLARY SPACE DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE. GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
2. LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH WALL MOUNTED ADJACENT TO NORMAL POWER PANEL. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
3. INTERCEPT EXISTING NORMAL POWER CIRCUIT HOME RUN AND PROVIDE PER CIRCUIT (1) LISTED UL1008 TRANSFER SWITCH, (1) CONTACTOR WITH POLE QUANTITY AS REQUIRED CONTROLLED WITH BMCS. LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. RE-USE EXISTING NORMAL POWER CIRCUIT AND NEW EMERGENCY POWER CIRCUIT AS SHOWN. EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
4. WALL MOUNTED.
5. DO NOT PENETRATE TOP OF CANOPY.

### LIGHTING GENERAL NOTES

1. CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL POWER CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN. PROVIDE EMERGENCY CIRCUIT FOR HATCHED FIXTURES AND/OR EXIT SIGNS. EXTEND WIRING WITH MATCHING CONDUCTORS / CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 3000 W @ 277V. TYPICAL.
2. LOCATION OF NEW / REPLACEMENT LIGHT FIXTURES SHALL RE-USE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS / CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESSIBLE CEILING WITH 1/2" FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE LENGTH NOT TO EXCEED 8 FEET. "DAISY CHAINING" LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR NON-ACCESSIBLE CEILINGS, LIGHT FIXTURE WHIPS SHALL BE 1/2" FLEXIBLE STEEL CONDUIT LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILINGS MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL LISTED J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26 05 33 CONDUIT SYSTEMS.
3. PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES, 20A EMERGENCY LOAD CONTROL RELAYS AND/OR TRANSFER SWITCHES. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
4. LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY ABOVE ACCESSIBLE CEILING 12 FEET AFF OR BELOW ADJACENT TO SWITCH CONTROLLING THE SPACE. IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER IN ADJACENT ANCILLARY AREA WITH ACCESSIBLE CEILING. IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO PANEL SERVING THE LOAD. PROVIDE PLASTIC TAPE MACHINE TYPED NAME PLATE TO BOTTOM OF CEILING T-GRID, BELOW RELAY LOCATION WRITE LETTERS ON BLACK BACKGROUND WITH 1/4" HIGH LETTERS ON 12" TALL LABEL FOR DIGITAL MODULE, INDICATE AS: DLM.
5. LOCATE DIGITAL LIGHTING CONTROLLER FOR HIGH CEILING CORRIDORS, GYM AND OTHER HIGH CEILING AREAS WITH NO ADJACENT ANCILLARY AREA ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING PER SPECIFICATIONS.
6. LOCATE DIGITAL LIGHTING CONTROLLER FOR INSTRUCTIONAL SPACES AND OFFICES ABOVE ACCESSIBLE CEILING IN CORRIDOR DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE. GRID MARKERS WITH WORDING PER SPECIFICATIONS.
7. OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED. CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IEC-2015 C405.
8. SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
9. MAINTAIN CONSTANT UNSWITCHED CIRCUITS FROM EXISTING SOURCE AND/OR NEW AS SHOWN FOR EMERGENCY FIXTURES, EMERGENCY LOAD RELAYS, TRANSFER SWITCHES AND EXIT SIGNS.
10. COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
11. PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM. CONTROL WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33.

### LINETYPE LEGEND

	EXISTING TO REMAIN
	DISCONNECT AND REMOVE
	NEW WORK

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED/UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL.

**Salas O'Brien**  
 salasobrien.com 281-664-1900  
 Houston, TX 77064  
 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-4111  
 Project No: 2024-0211-00

**NATEX**  
 CORPORATION  
 ARCHITECTS  
 www.natexarchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
 Fax: 713-780-7824

**Coleman Partners**  
 ARCHITECTS  
 colemanpartners.com  
 3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
 tel: 832-947-1038 fax: 282-214-5365

**BID DOCUMENTS**  
  
 BRADLEY KALMANS  
 80219  
 ENGINEER  
 01/16/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
 21020 PARK ROW  
 KATY, TX 77449  
 tel: 281-578-9595

**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
 tel: 713-337-8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
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**FOOD SERVICE EQUIPMENT**  
**FDP**  
 25317 INTERSTATE 45  
 THE WOODLANDS, TX 77380  
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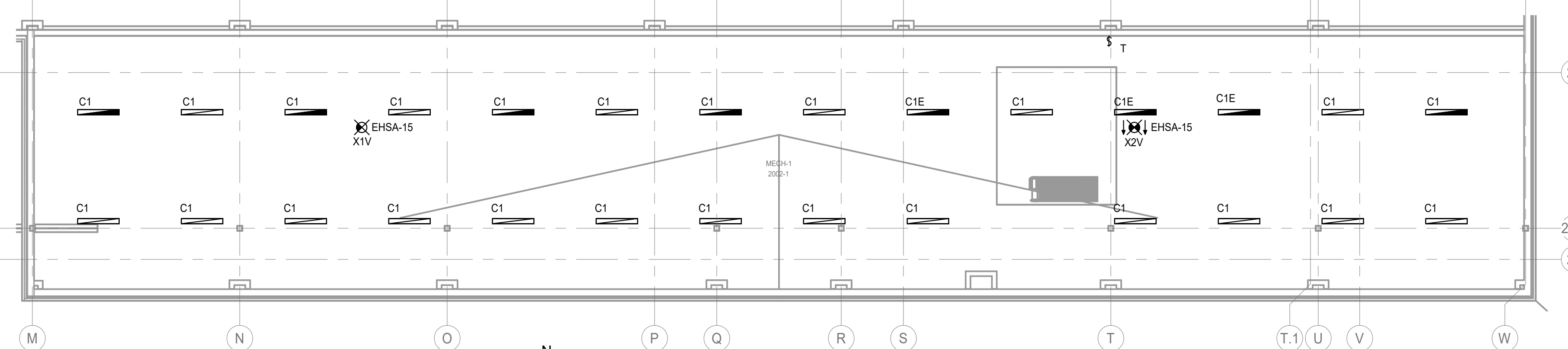
2024 ANTHONY, HOPPER & KAHLA RENOVATIONS  
**HOPPER MIDDLE SCHOOL**  
 7811 FRY RD, CYPRESS, TX 77433  
 CFSID PROJECT NO: 24-02-5750-R-RFP

1. ADDENDUM #02 01/16/25  
 Revisions / Submission

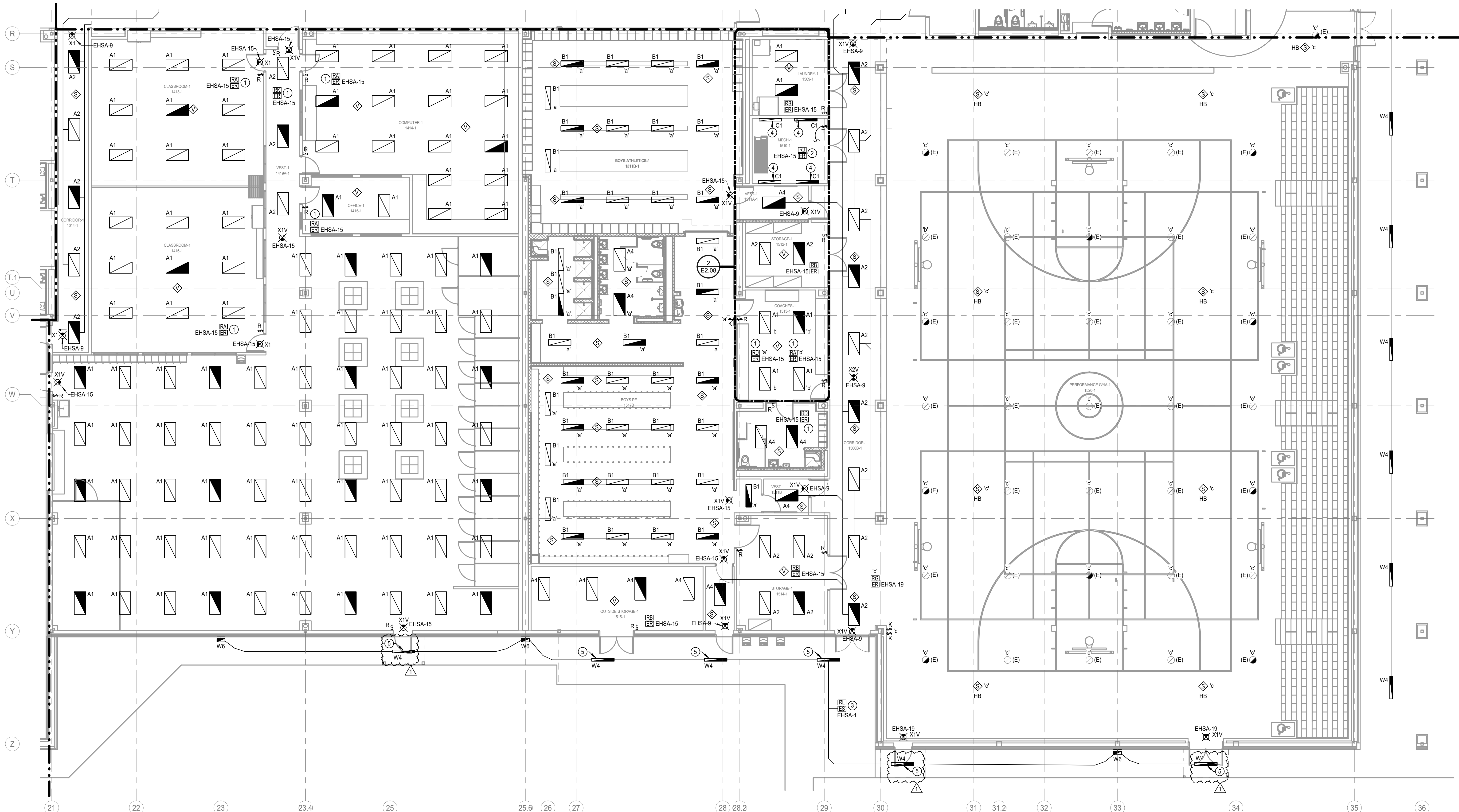
Project Number: 22084  
 Date: 29 DECEMBER 2024  
 Drawn by: LT

ELECTRICAL LIGHTING  
 1ST FLOOR PLAN - AREA 'H'

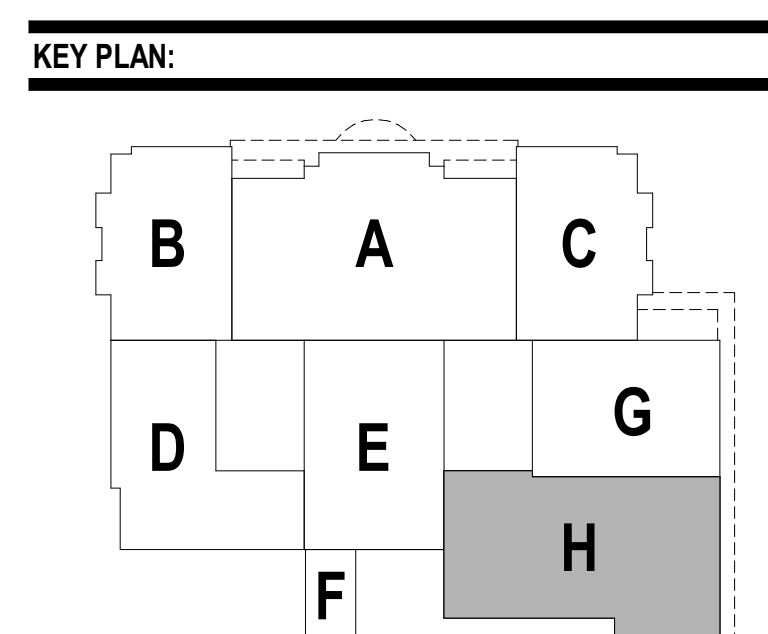
**E2.08**



**2 ELECTRICAL LIGHTING - MECH 202**  
 Scale: 1/8" = 1'-0"



**1 ELECTRICAL LIGHTING 1ST FLOOR - AREA 'H'**  
 Scale: 1/8" = 1'-0"



**ELECTRICAL KEYED NOTES**

- PROVIDE DRY CONTACT FOR INDIVIDUAL MONITORING INTERFACE WITH SECURITY PANEL FOR EACH ATS.
- 3PH, 4W, 120/208V, 400A REVENUE GRADE SUBMETER FOR LOAD AT FEEDERS AS SHOWN ON DIAGRAM. E-MON D40N 3400 SERIES DEMAND METER. SUBMETER SHALL MEASURE kWh AND DEMAND AND WITH BACK-NET COMPATIBILITY.
- 3PH, 4W, 120/208V, 100A REVENUE GRADE SUBMETER FOR LOAD AT FEEDERS AS SHOWN ON DIAGRAM. E-MON D40N 3400 SERIES DEMAND METER. SUBMETER SHALL MEASURE kWh AND DEMAND AND WITH BACK-NET COMPATIBILITY.
- EXTEND/RE-ROUTE ALL EXISTING BRANCH CIRCUIT AND FEEDER CONDUCTORS/ CONDUIT FROM EXISTING PANEL WITH MATCHING SIZE TO REPLACEMENT/ RELOCATED PANEL.
- PROVIDE PHASE SEQUENCE MONITOR/BALANCE MODULE TO PROTECT AGAINST INADVERTENT PHASE ROTATION HOOKUP AND MONITOR FOR VOLTAGE PHASE IMBALANCE BETWEEN PHASES.
- 1" C TO ATS FOR CONTROL WIRING REFER TO SPECIFICATIONS AND COORDINATE WITH MANUFACTURER. TYPICAL.
- DOUBLE-THROW MANUAL TRANSFER SWITCH WITH INTEGRATED QUICK-CONNECTS IN SINGLE PACKAGE. REFER TO SPECIFICATIONS.

**(E)ATS AVAILABLE FAULT CURRENT**

PROVIDE LABEL WITH LETTERING ON CONTRASTING BACKGROUND PERMANENTLY AFFIXED TO THE SERVICE DISCONNECT EQUIPMENT PRIOR TO ENERGIZING THE SERVICE EQUIPMENT. THE LABEL SHALL INCLUDE THE DATE OF INSTALLATION AND THE DATE OF CALCULATION. THE DATE OF CALCULATION SHALL BE THE DATE INDICATED BY THE ENGINEER OF RECORD'S SEAL ON THE CONSTRUCTION DOCUMENT ELECTRICAL ONE-LINE DIAGRAM / RISER DRAWING. REFER TO SPECIFICATIONS.

SERVICE EQUIPMENT AVAILABLE FAULT CURRENT: 12,414 A  
 DATE OF INSTALLATION: MM/DD/YYYY  
 DATE OF CALCULATION: 11/24/2024

**(ATS-LS) AVAILABLE FAULT CURRENT**

PROVIDE LABEL WITH LETTERING ON CONTRASTING BACKGROUND PERMANENTLY AFFIXED TO THE SERVICE DISCONNECT EQUIPMENT PRIOR TO ENERGIZING THE SERVICE EQUIPMENT. THE LABEL SHALL INCLUDE THE DATE OF INSTALLATION AND THE DATE OF CALCULATION. THE DATE OF CALCULATION SHALL BE THE DATE INDICATED BY THE ENGINEER OF RECORD'S SEAL ON THE CONSTRUCTION DOCUMENT ELECTRICAL ONE-LINE DIAGRAM / RISER DRAWING. REFER TO SPECIFICATIONS.

SERVICE EQUIPMENT AVAILABLE FAULT CURRENT: 14,214 A  
 DATE OF INSTALLATION: MM/DD/YYYY  
 DATE OF CALCULATION: 11/24/2024

SINCE EXACT FAULT CURRENT INFORMATION IS CURRENTLY NOT AVAILABLE FROM CENTERPOINT ENERGY, CENTERPOINT ENERGY'S TRANSFORMER SECONDARY FAULT CURRENT TABLES HAVE BEEN USED TO PERFORM THE SHORT CIRCUIT CURRENT CALCULATIONS USING POINT-TO-POINT METHOD.

**ELECTRICAL LOAD ANALYSIS**

M		
480 / 277, 3PH, 4W		
LOAD DESCRIPTION	NEC-2023 CRITERIA	LOAD KVA
PEAK DEMAND 1,067 @125%	220.87	1,333.7
LOAD REMOVED 328 @100%		328.0
LIGHTING (CALC.) 1,517.5(Ft x 1.5 W)	220.42(A)	2.3
LIGHTING (CONNECTED) x 1.25	215.2	164.0
RECEPTACLES (CONNECTED)	220.47	12.5
1st 10KVA @100%	220.47	10.0
REMAINDER @50%	220.47	1.2
MISCELLANEOUS	220	59.35
KITCHEN EQUIPMENT	220.56	0
HVAC - FANS, PUMPS, AHUs	220	10.7
CHILLERS	220	0
25% LARGEST MOTOR (3 HP)	430.24	1.0
TOTAL		1,251.9

**GENERATOR LOAD ANALYSIS**

480 / 277, 3PH, 4W	
LOAD DESCRIPTION	LOAD KVA
LIGHTING x 1.25	39.2
RECEPTACLES	9.6
MISCELLANEOUS	64.5
HVAC - FANS, AHUs	9.4
ELEVATOR (15 HP)	17.4
TOTAL	140.1

1,251.9 / 480 V / sqrt(3) = 1,505.9 A  
 4,000 A EXISTING SERVICE  
 GENERATOR CAPACITY - 150 MW / 175 KVA

UNLESS NOTED OTHERWISE, RETAIN IN PLACE ALL EXISTING CIRCUITS AND FEEDER FROM SOURCE FOR ALL EXISTING PANELS LABELED TO BE REPLACED AND / OR RELOCATED. EXTEND / RE-ROUTE EXISTING BRANCH CIRCUITS AND FEEDER LEFT IN PLACE AFTER DEMOLITION FROM EXISTING PANELS TO BE RELOCATED AND / OR REPLACED.

CONTRACTOR TO FIELD VERIFY INTERRUPTING FAULT CURRENT CAPACITY OF EXISTING PANELS AND / OR SWITCHBOARDS AND TO PROVIDE NEW BREAKERS/FUSES TO MATCH EXISTING.

**TWO-HOUR FIRE RATED CABLE:**

- TWO-HOUR FIRE RATED POWER CABLE SHALL BE APPROVED BY THE LOCAL AHJ AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS IN COMPLIANCE WITH UL FIRE RESISTANCE DIRECTORY, ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS (FHTT), AND SYSTEM 27.
- TWO-HOUR FIRE RATED POWER CABLE SHALL BE INSTALLED AS APPROVED BY THE LOCAL AHJ IN STEEL EMT OR STEEL RIGID CONDUIT WITH STEEL SET SCREW OR THREADED FITTINGS. UL LISTED FLEXIBLE METALLIC STEEL CONDUIT MAY BE USED IN LENGTHS NOT TO EXCEED 6-FEET. SUPPORT CONDUIT EVERY 5-FEET ON CONCRETE OR MASONRY WALLS OR A CONCRETE FLOOR-CEILING ASSEMBLY. THE FIRE RATING OF THE WALL OR FLOOR-CEILING ASSEMBLY MUST BE EQUAL TO OR GREATER THAN THE RATING OF THE ELECTRICAL CIRCUIT PROTECTIVE SYSTEM. PROVIDE J-BOX AT EACH END OF THE FIRE RATED CABLES IN THE FIRE RATED ROOM TO ALLOW SPlice TO STANDARD BUILDING CABLE TO THE EQUIPMENT. PROVIDE SEALANT TO THE END OF THE RACEWAY TO PREVENT GASES FROM MIGRATING FROM THE FIRE RATED CABLE DOWN INTO THE EQUIPMENT.

**INSULATION FOR TWO-HOUR FIRE RATED POWER CABLE:**

- INSULATION SHALL MEET OR EXCEED THE REQUIREMENTS OF UL 2196 FIRE TEST FOR CIRCUIT INTEGRITY OF FIRE-RESISTIVE POWER, INSTRUMENTATION, CONTROL, AND DATA CABLES, AND UL 44, THERMOSET INSULATED WIRES AND CABLES.
  - INSULATION FOR CONDUCTORS SHALL BE UL TYPE RHW-2 OR RHW-90, 90 DEGREES C FOR WET LOCATIONS AND 90 DEGREES C FOR DRY LOCATIONS.
- b. ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS (FHTT) - SYSTEM 27 OF THE UL FIRE RESISTANCE DIRECTORY.

**LINETYPE LEGEND**

---	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
---	NEW WORK

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED. CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.

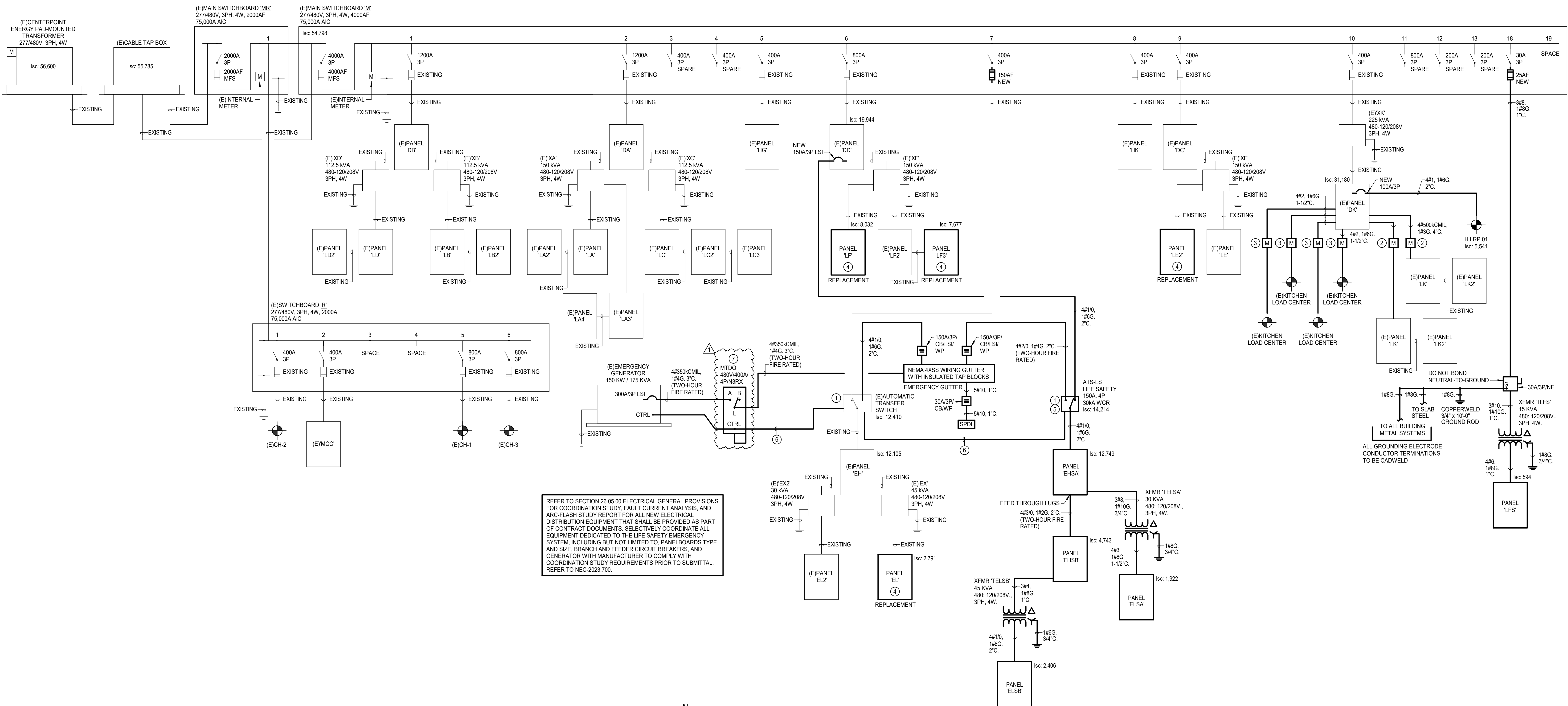
OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR TO NOTIFY CASEY RAMSEY WITH DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.

**PANELBOARD CIRCUIT DIRECTORY:**

CONTRACTOR SHALL RECORD AND/OR PRESERVE THE EXISTING CIRCUIT DIRECTORY, IF ANY, FOR THE SOLE PURPOSE UPON COMPLETION OF NEW WORK OF PRODUCING A NEW CIRCUIT DIRECTORY.

CONTRACTOR SHALL PROVIDE AS PART OF THE CONSTRUCTION DOCUMENTS A NEW, NEATLY TYPED DIRECTORY. CONTRACTOR SHALL TRACE ALL EXISTING CIRCUITS AND SHALL LEGIBLY IDENTIFY AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. LOADS SERVED AND LOCATION AND/OR THE PANELBOARD SCHEDULE ON THE DRAWINGS. THE WORD "EXISTING" SHALL NOT BE USED ON PANELBOARD DIRECTORIES. SPARE BREAKERS ARE TO BE LISTED AS "SPARE" SPACES WITH NO BREAKERS ARE TO BE LEFT BLANK. REFER TO NEC-2023: 408.4(A) FOR DETAILS.

CONTRACTOR SHALL PERMANENTLY LABEL AS PART OF THE CONSTRUCTION DOCUMENTS ALL SWITCHBOARDS, SWITCHGEAR AND PANELBOARDS TO INDICATE EACH POWER SOURCE. REFER TO NEC-2023: 408.4(B) FOR DETAILS.



REFER TO SECTION 26 05 00 ELECTRICAL GENERAL PROVISIONS FOR COORDINATION STUDY, FAULT CURRENT ANALYSIS, AND ARC-FLASH STUDY REPORT FOR ALL NEW ELECTRICAL DISTRIBUTION EQUIPMENT THAT SHALL BE PROVIDED AS PART OF CONTRACT DOCUMENTS. SELECTIVELY COORDINATE ALL EQUIPMENT DEDICATED TO THE LIFE SAFETY EMERGENCY SYSTEM, INCLUDING BUT NOT LIMITED TO, PANELBOARDS TYPE AND SIZE, BRANCH AND FEEDER CIRCUIT BREAKERS, AND GENERATOR WITH MANUFACTURER TO COMPLY WITH COORDINATION STUDY REQUIREMENTS PRIOR TO SUBMITTAL. REFER TO NEC-2023:700.

**PARTIAL ONE-LINE DIAGRAM**  
 Scale: N.T.S.

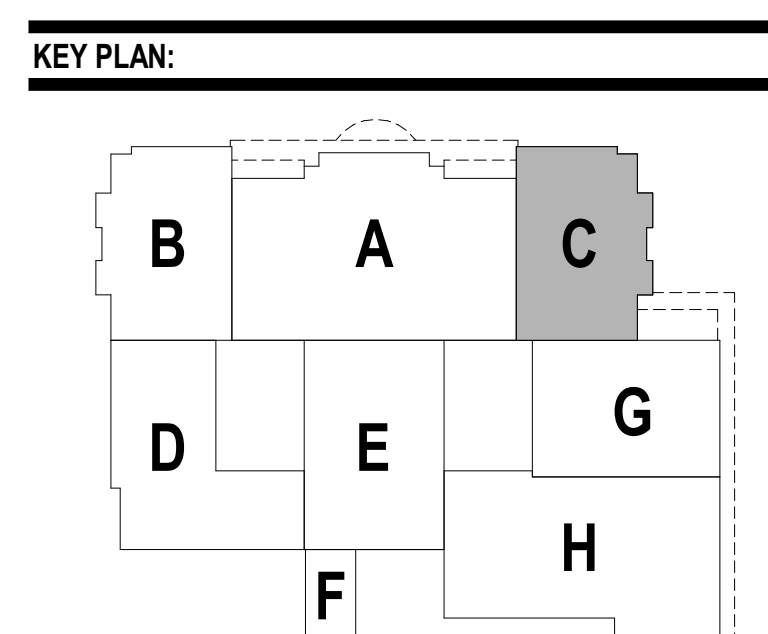




- TECH DEMO PLAN GENERAL NOTES**
- A CEILING REPLACEMENT IN SCOPE OF PROJECT
  - B CONTRACTOR SHALL HAVE EACH LOW VOLTAGE SYSTEM TESTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SYSTEMS SHALL INCLUDE BUT NOT BE LIMITED TO:
    - 1) FIRE ALARM
    - 2) INTERCOM
    - 3) STRUCTURED CABLING
    - 4) INTRUSION DETECTION
    - 5) ACCESS CONTROL
    - 6) AUDIO VIDEO
    - 7) VIDEO SURVEILLANCE
 TESTING SHALL INCLUDE THE FUNCTIONALITY OF ALL FIELD DEVICES AND EQUIPMENT. ANY FAILURES OR ITEMS FOUND NOT TO BE FUNCTIONING TO SPECIFICATION, SHALL BE REPORTED PRIOR TO CONSTRUCTION. ANY ITEMS FOUND TO BE IMPROPERLY OR NON-FUNCTIONING UPON THE COMPLETION OF THE PROJECT, SHALL BE REPLACED AND/OR REPAIRED, BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE PROJECT OR THE OWNER.
  - C CONTRACTOR SHALL REMOVE ANY DEVICES WHERE CONSTRUCTION OCCURS TO PREVENT POSSIBLE DAMAGE TO THE DEVICE. REMOVAL OF ANY DEVICES WHICH SUPPORT USER CONNECTION OR OTHER SYSTEMS, SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVAL AND/OR TAKING OFF LINE. REMOVAL SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING DEVICES AND ASSOCIATED SUPPORT INFRASTRUCTURE:
    - 1) FIRE ALARM DEVICES
    - 2) INTERCOM DEVICES
    - 3) WIRELESS ACCESS POINTS
    - 4) TELEPHONES
    - 5) VIDEO SURVEILLANCE CAMERAS
    - 6) INTRUSION DETECTION DEVICES
    - 7) ACCESS CONTROL DEVICES
    - 8) VIDEO PROJECTION DEVICES
    - 9) VIDEO DISPLAY DEVICES
 ANY DEVICES, NOT BEING REINSTALLED, SHALL BE RETURNED TO THE OWNER.
  - D CONTRACTOR SHALL DOCUMENT THE LOCATION AND ANY ID TAG, MAC ADDRESS, IP ADDRESS, OR BAR CODE OF ANY EXISTING DEVICE THAT IS TO BE REMOVED FROM ITS CURRENT LOCATION. DEVICES THAT ARE TO REMAIN, SHALL BE REINSTALLED IN THE EXACT LOCATION THAT THEY RESIDE IN PRIOR TO CONSTRUCTION, UNLESS NOTED OTHERWISE.
  - E ANY INDIVIDUAL THAT WILL BE REMOVING, RELOCATING, REINSTALLING, AND/OR TAMPERING WITH ANY EXISTING DEVICES, SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SPECIFIC SYSTEM AND/OR LICENSED AS REQUIRED BY THE STATE TO PERFORM WORK ON THE SYSTEM. THE INDIVIDUAL SHALL BE A FULL-TIME EMPLOYEE OF THE FIRM CONTRACTED TO CONDUCT SUCH WORK ON THE PROJECT AND THAT FIRM SHALL ALSO HOLD ANY CERTIFICATIONS AND/OR LICENSES REQUIRED TO CONDUCT WORK ON THE SPECIFIC SYSTEM.
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  - I REFERENCE EXISTING DEVICE SUBSCRIPT LEGEND ON THE NOTES AND LEGENDS SHEET.
  - J TOPCAT LIGHTSPEED LOCAL SOUND SPEAKERS SHALL BE BAGGED AND SUSPENDED IN THE CEILING DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER TO NOT VOID THE WARRANTY.  
 TOPCAT LIGHTSPEED SPEAKER, BASE STATION AND ANY OTHER SYSTEM COMPONENTS SHALL BE TAGGED BY CONTRACTOR WITH ROOM NAME AND NUMBER AND BE REINSTALLED IN THE SAME ROOM IT WAS REMOVED FROM.
  - K CONTRACTOR TO COORDINATE WITH CFSID TECHNOLOGY DEPARTMENT PRIOR TO CONSTRUCTION ON WHICH DEVICES ARE TO BE REMOVED BY THE OWNERS VENDOR IN ORDER TO PREVENT VOID OF WARRANTY.
  - L ALL DEMO DEVICES WITH 'D' SUBSCRIPT SHALL DISCONNECT AND REMOVE EXISTING WIRING DEVICE BACK TO ORIGIN. PATCH WALL TO MATCH EXISTING.



**1 TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 1 - AREA 'C'**  
 Scale: 1/8" = 1'-0"



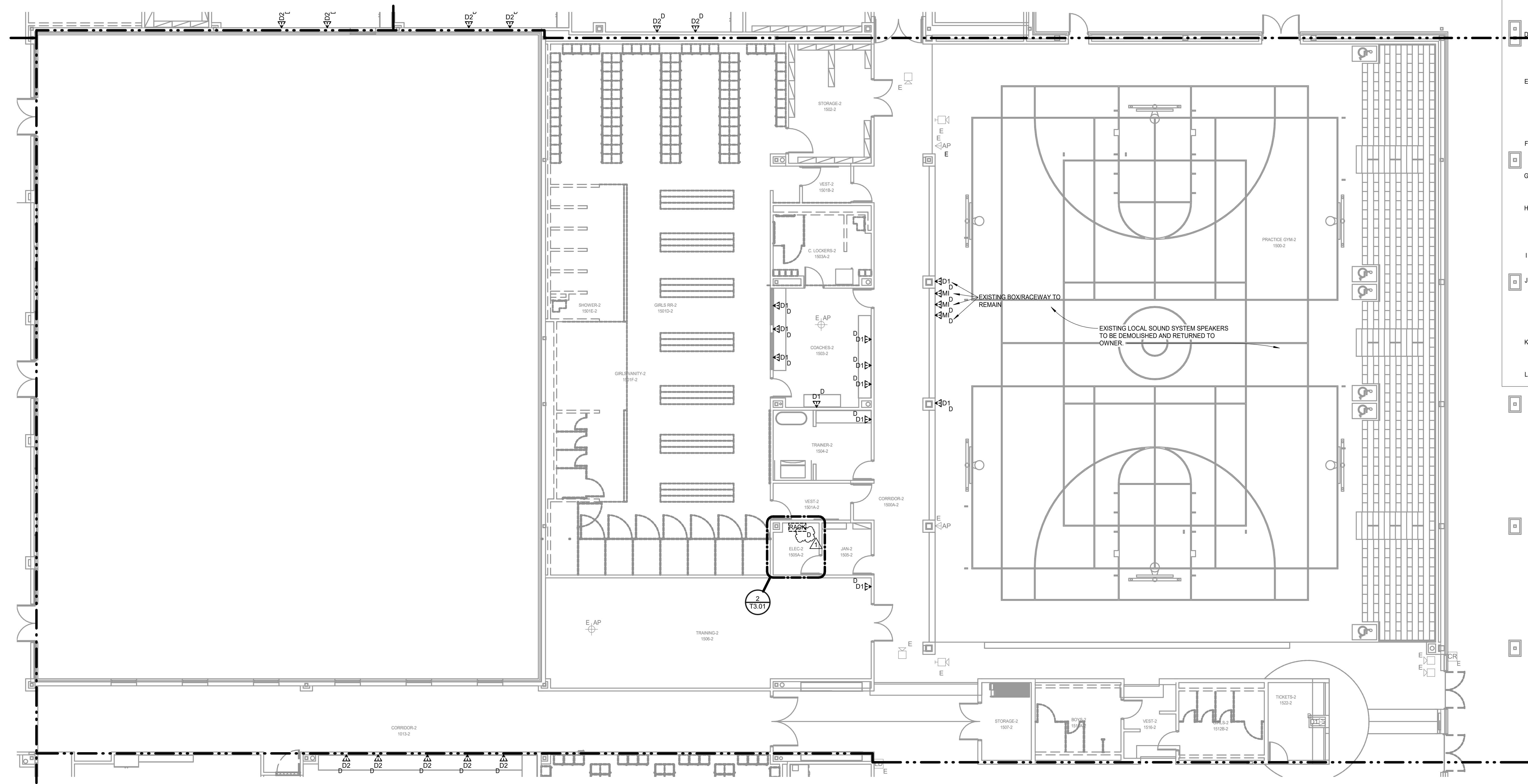
**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**HOPPER MIDDLE SCHOOL**  
 7811 FRY RD, CYPRESS, TX 77433  
 CFSID PROJECT NO: 24-02-5750-R-RFP

Project Number: 22084  
 Date: 29 DECEMBER 2024  
 Drawn by: NY  
**TECHNOLOGY**  
 DEMOLITION FIRST  
 FLOOR PLAN - AREA 'C'  
**T0.03**

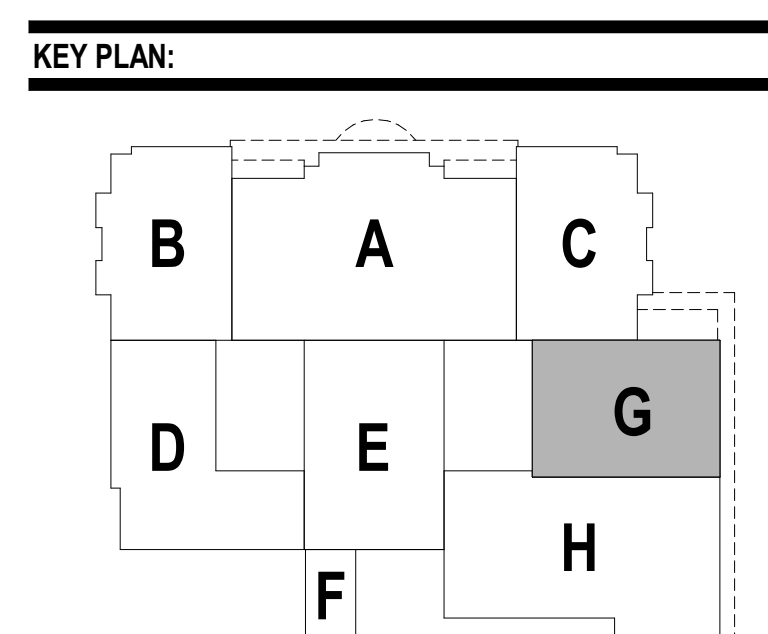


**TECH DEMO PLAN GENERAL NOTES**

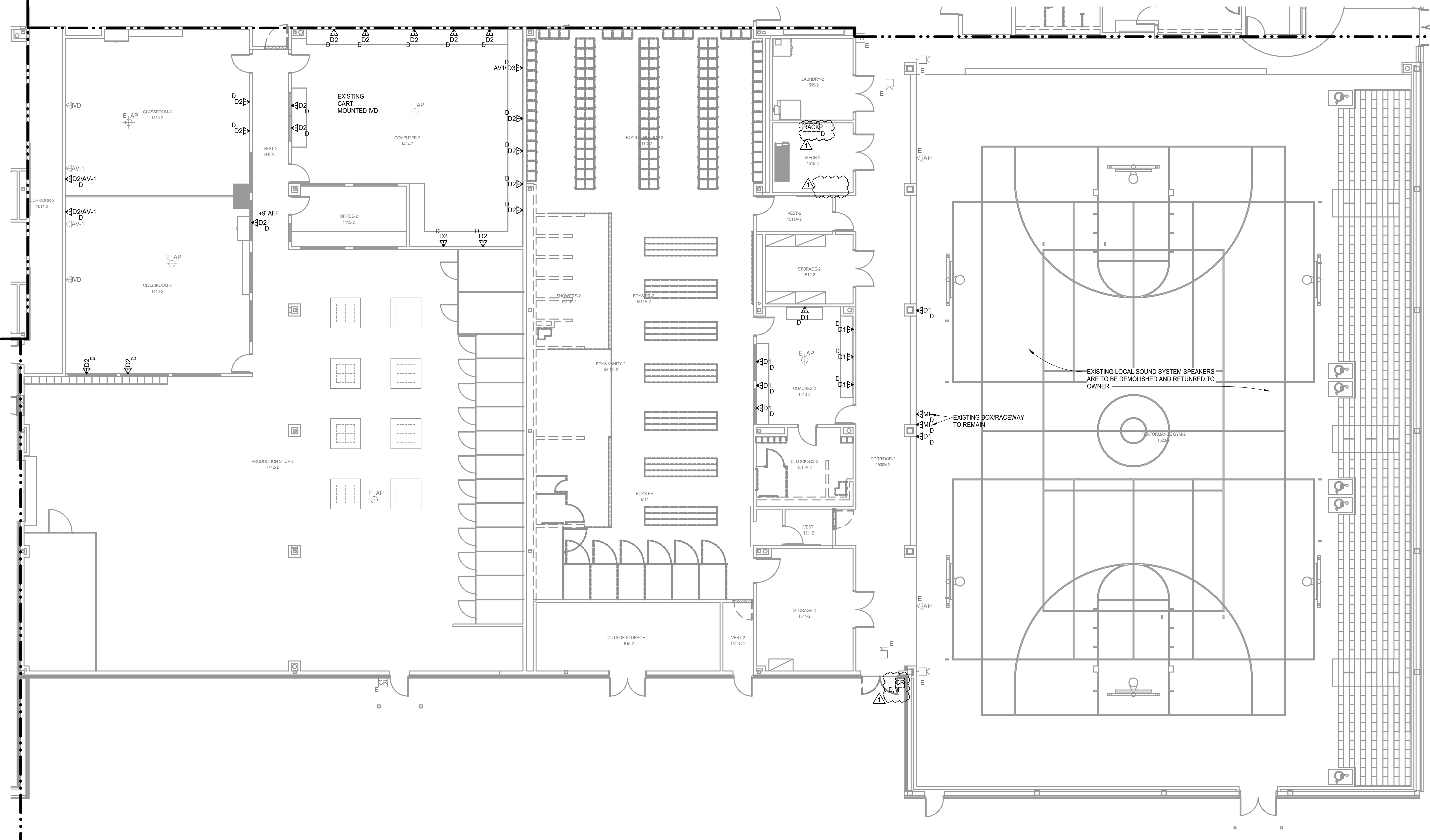
- A CEILING REPLACEMENT IN SCOPE OF PROJECT
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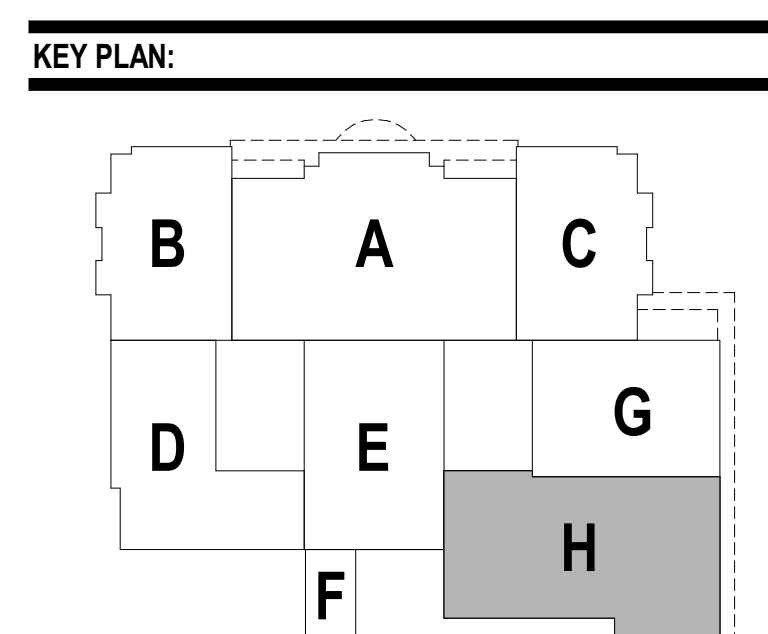
**1 TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 1 - AREA 'G'**  
 Scale: 1/8" = 1'-0"



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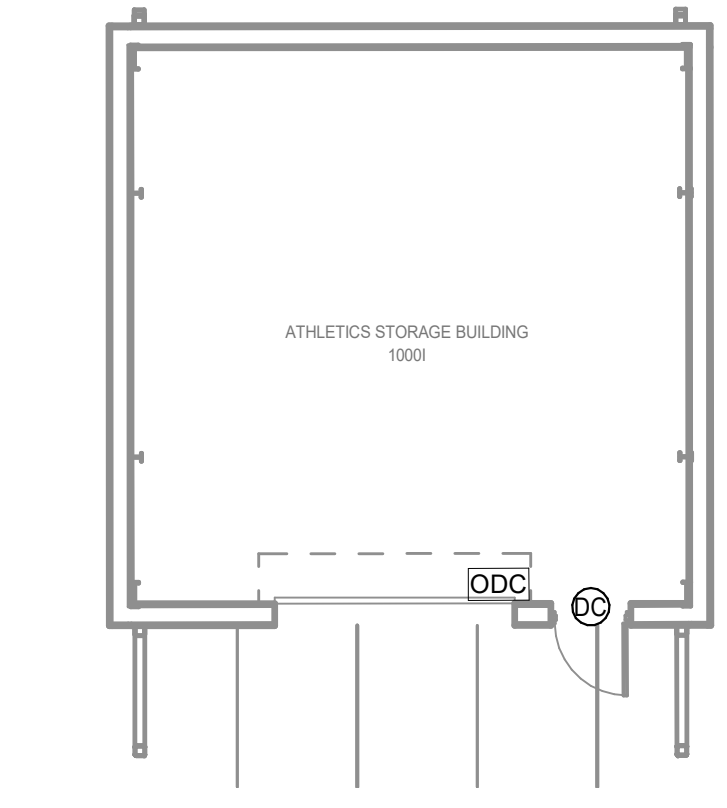
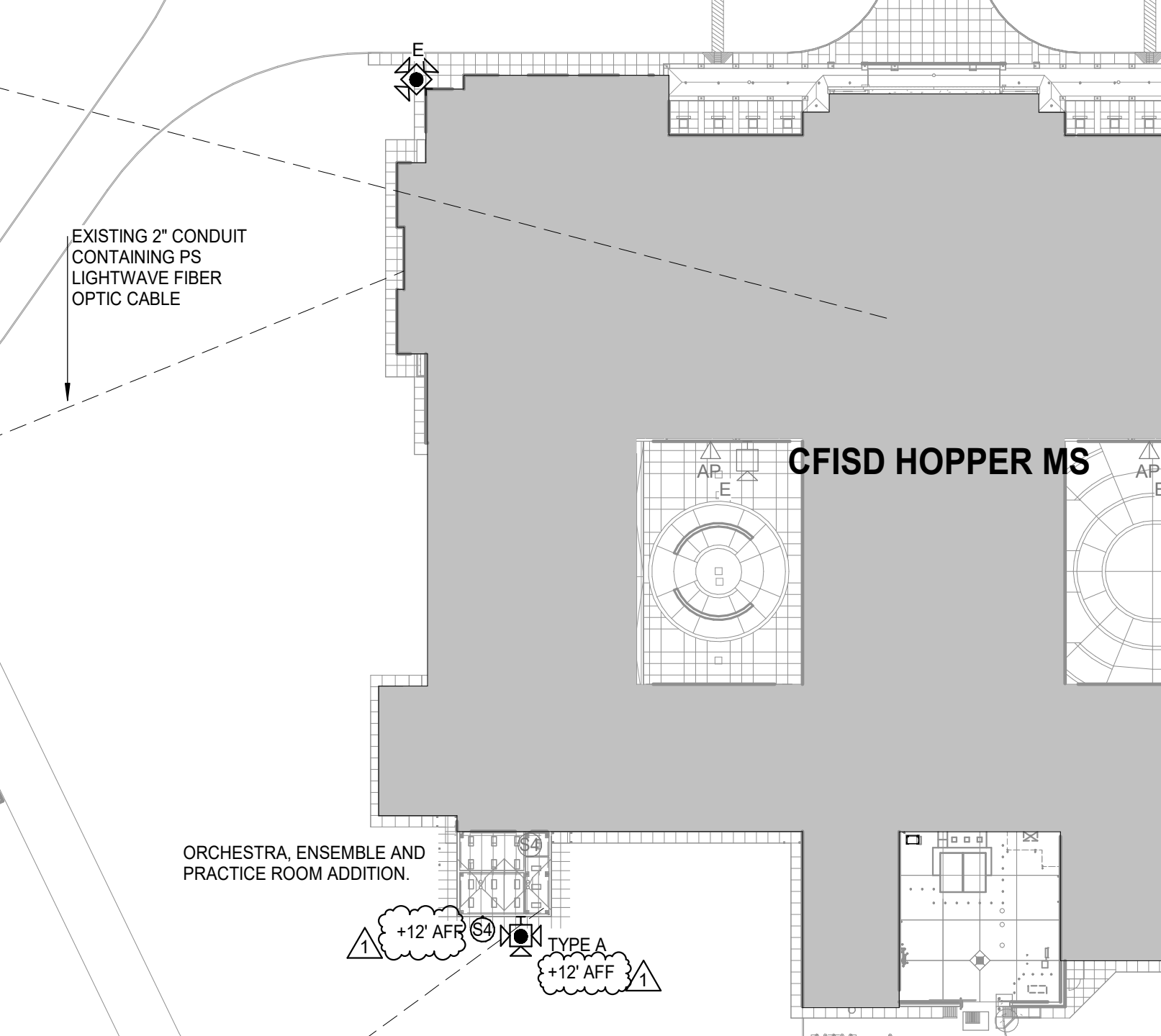
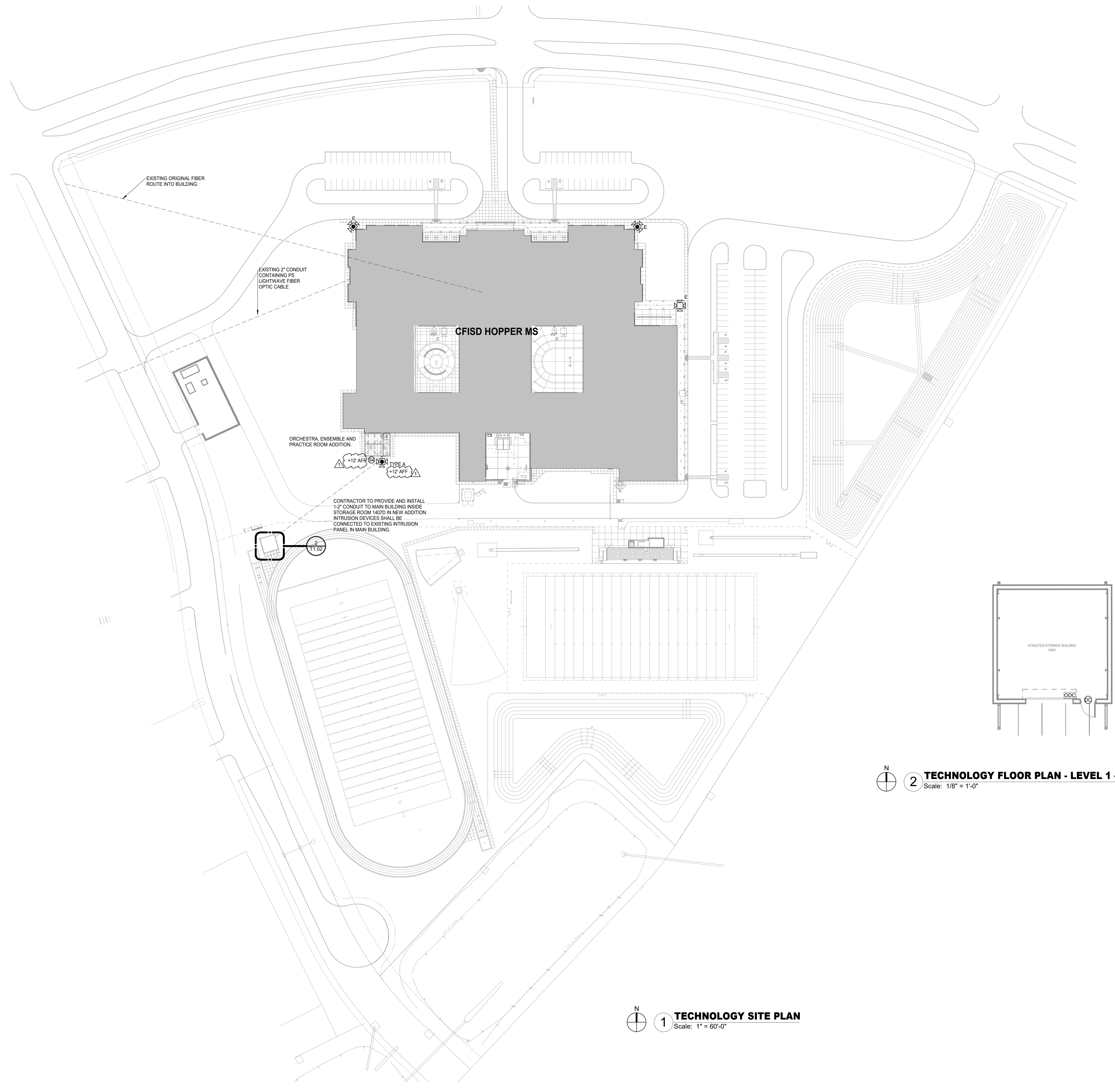


**1 TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 1 - AREA 'H'**  
 Scale: 1/8" = 1'-0"



Revision	Description	Date
1	ADDENDUM #02	01/16/25

Project Number:	22084
Date:	29 DECEMBER 2024
Drawn by:	NY



**2 TECHNOLOGY FLOOR PLAN - LEVEL 1 - FIELD STORAGE**  
 Scale: 1/8" = 1'-0"

**1 TECHNOLOGY SITE PLAN**  
 Scale: 1" = 60'-0"

CONTRACTOR TO PROVIDE AND INSTALL 1-2" CONDUIT TO MAIN BUILDING INSIDE STORAGE ROOM 1407D IN NEW ADDITION. INTRUSION DEVICES SHALL BE CONNECTED TO EXISTING INTRUSION PANEL IN MAIN BUILDING.

ORCHESTRA, ENSEMBLE AND PRACTICE ROOM ADDITION.

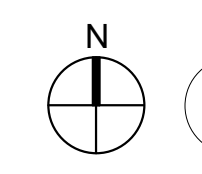
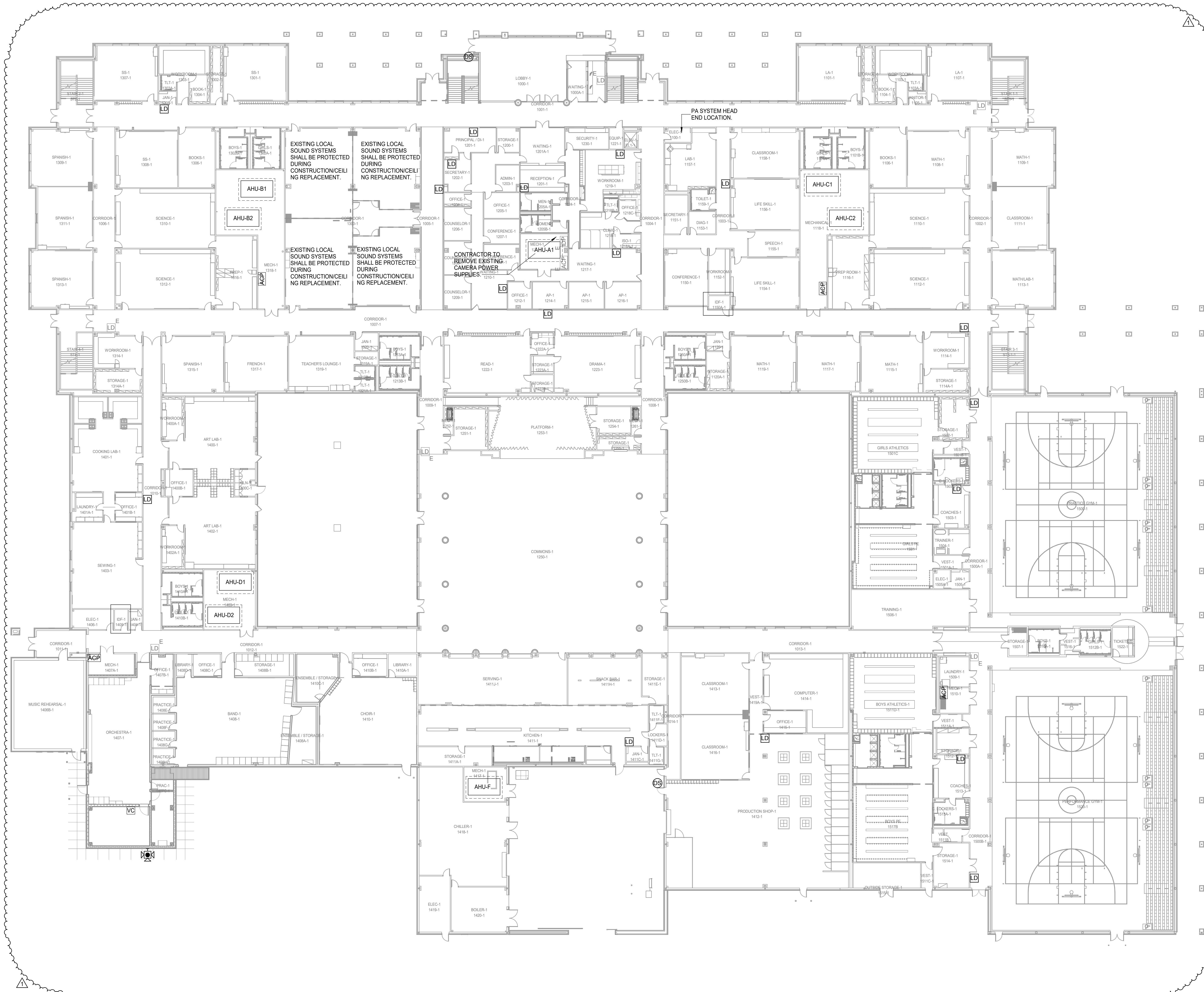
EXISTING ORIGINAL FIBER ROUTE INTO BUILDING.

EXISTING 2" CONDUIT CONTAINING PS LIGHTWAVE FIBER OPTIC CABLE



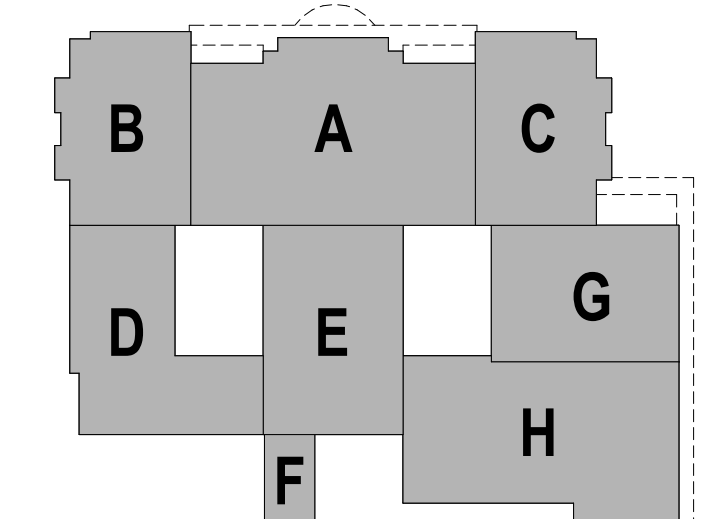
**INTERCOM SYSTEM NOTES:**

1. EXISTING LOCKDOWNS TO REMAIN AND SHALL BE HOMERUN TO INTERCOM HEAD END.
2. CONTRACTOR TO PROVIDE AND INSTALL ADDITIONAL GATEWAYS FOR NEW LOCKDOWN BUTTONS.
3. CONTRACTOR TO PROVIDE AND INSTALL ANALOG GATEWAYS AND ZPM MODULES TO CONNECT EXISTING ANALOG INTERCOM DEVICES TO TELECENTER U SYSTEM.



**1 TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 1**  
 Scale: 1" = 20'-0"

**KEY PLAN:**



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**HOPPER MIDDLE SCHOOL**  
 7811 FRY RD, CYPRESS, TX 77433  
 CFSID PROJECT NO: 24-02-5750-R-RFP

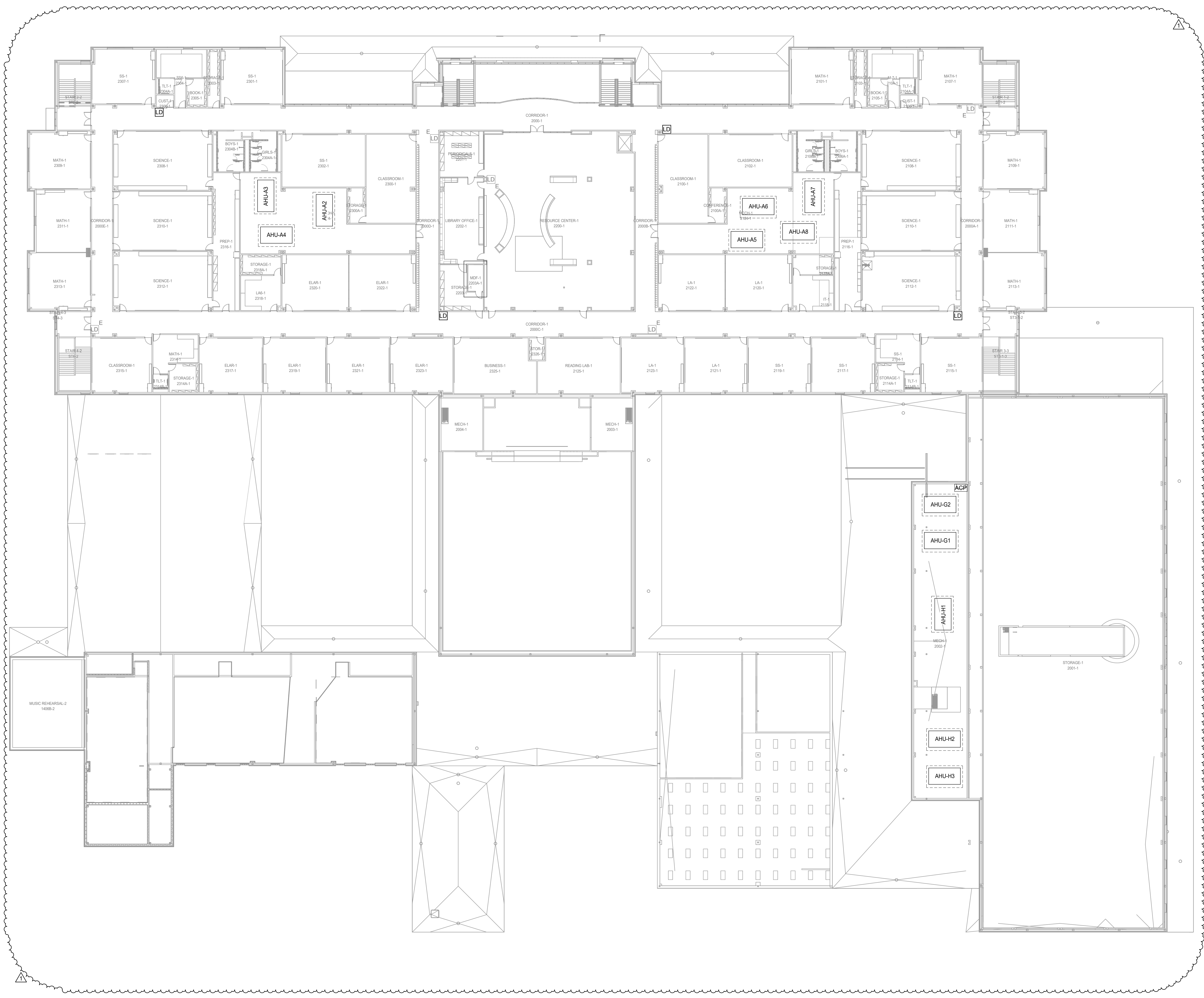
Revision / Submission	Date
T_ADDENDUM #02	01/16/25

Project Number: 22084  
 Date: 29 DECEMBER 2024  
 Drawn by: NY

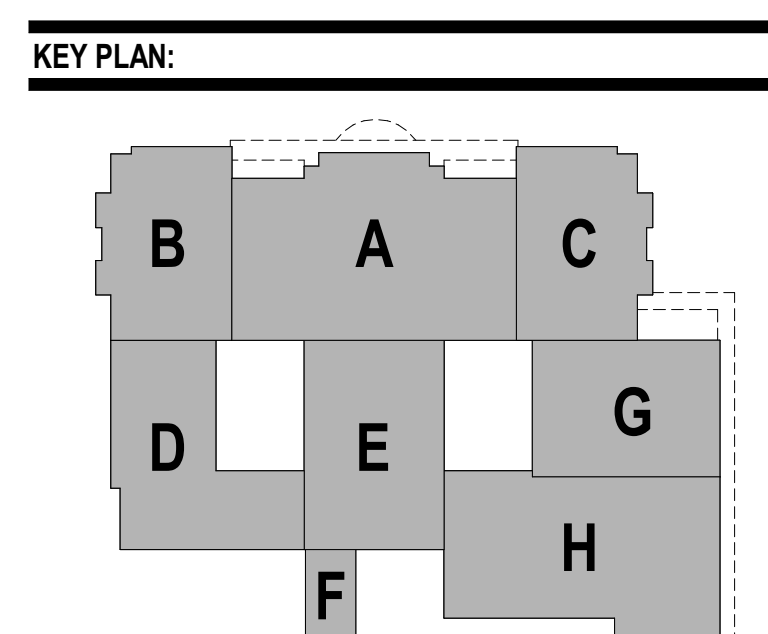
**TECHNOLOGY COMPOSITE FIRST FLOOR PLAN**

**T1.03**

**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**HOPPER MIDDLE SCHOOL**  
 7811 FRY RD, CYPRESS, TX 77433  
 CFSID PROJECT NO: 24-02-5750-R-RFP



**1 TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 2**  
 Scale: 1" = 20'-0"



Project Number: 22084  
 Date: 29 DECEMBER 2024  
 Drawn by: NY  
**TECHNOLOGY**  
**COMPOSITE SECOND**  
**FLOOR PLAN**  
**T1.04**

**FIRE ALARM**

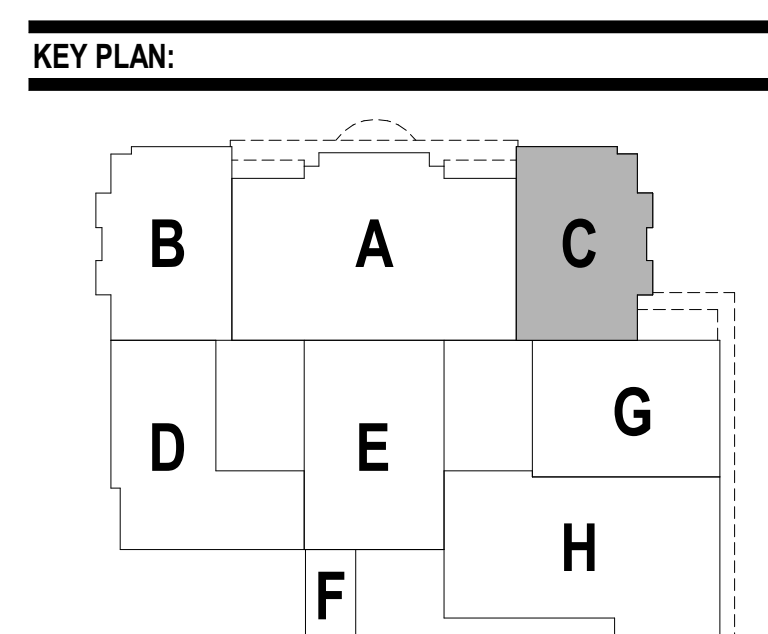
A	FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 45 00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
B	A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

**TECHNOLOGY PLAN GENERAL NOTES**

A	COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.
B	COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT(IF APPLICABLE) PRIOR TO ROUGH-IN.
C	REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE PLANS, NOTES & LEGENDS AND DETAILS FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.
D	REPLACE MECHANICAL BUILDING MANAGEMENT NETWORK DROPS WITH CATEGORY 6A DATA CIRCUIT AND REUSE EXISTING RACEWAYS AND BACKBOXES. COORDINATE WITH THE CONTRACTOR FOR EXACT LOCATION AND TERMINATION TYPE.
E	CONTRACTOR TO COORDINATE INTERCOM SPEAKER MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL SPEAKER SELECTION. COORDINATE WITH ENGINEER ON ANY DISCREPANCIES.
F	CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.
G	ALL EXISTING LOCKDOWN BUTTONS THAT ARE BEING REUSED SHALL HAVE EXISTING WIRING DEMOLISHED AND REPLACED BY CONTRACTOR. EACH LOCKDOWN BUTTON SHALL HOME RUN BACK TO THE HEAD END.
H	WORKSTATION DATA CABLING REPLACEMENT SHALL REUSE ALL EXISTING RACEWAYS AND BACKBOXES.
I	REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.



**1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA 'C'**  
 Scale: 1/8" = 1'-0"



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**HOPPER MIDDLE SCHOOL**  
 7811 FRY RD, CYPRESS, TX 77433  
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1. ADDENDUM #02 01/16/25  
 Revisions / Submission

Project Number: 22084  
 Date: 29 DECEMBER 2024  
 Drawn by: NY

TECHNOLOGY FIRST FLOOR PLAN - AREA 'C'

**T2.03**



**Salas O'Brien**  
 salesobrien.com 281-664-1900  
 Houston  
 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-4111  
 Project No: 2024-00211-00 CHECKED BY: AV

**NATEX**  
 CORPORATION  
 ARCHITECTS  
 www.natexarchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
 Fax: 713-780-7824

**Coleman Partners**  
 ARCHITECTS  
 colemanpartners.com  
 3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
 tel: 832.947.1038 fax: 281.225.214.5365

**BID DOCUMENTS**  
 01/16/2025

**BRADLEY KALMANS**  
 80219 / CENSUS  
 01/16/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
 21020 PARK ROW  
 KATY, TX 77449  
 tel: 281.578.9595

**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
 tel: 713.337.8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
 tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
 25317 INTERSTATE 45  
 THE WOODLANDS, TX 77380  
 tel: 281.350.2323

**LANDSCAPE**  
**LANDSCAPE GROUP**  
 17041 EL CAMINO REAL, STE 204  
 HOUSTON, TX 77058  
 tel: 281.486.4040

**FIRE ALARM**

A FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28.45.00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

**TECHNOLOGY PLAN GENERAL NOTES**

A COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.

B COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT (IF APPLICABLE) PRIOR TO ROUGH-IN.

C REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE PLANS, NOTES & LEGENDS AND DETAILS FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.

D REPLACE MECHANICAL BUILDING MANAGEMENT NETWORK DROPS WITH CATEGORY 6A DATA CIRCUIT AND REUSE EXISTING RACEWAYS AND BACKBOXES. COORDINATE WITH THE CONTRACTOR FOR EXACT LOCATION AND TERMINATION TYPE.

E CONTRACTOR TO COORDINATE INTERCOM SPEAKER MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL SPEAKER SELECTION. COORDINATE WITH ENGINEER ON ANY DISCREPANCIES.

F CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.

G ALL EXISTING LOCKDOWN BUTTONS THAT ARE BEING REUSED SHALL HAVE EXISTING WIRING DEMOLISHED AND REPLACED BY CONTRACTOR. EACH LOCKDOWN BUTTON SHALL HOME RUN BACK TO THE HEAD END.

H WORKSTATION DATA CABLING REPLACEMENT SHALL REUSE ALL EXISTING RACEWAYS AND BACKBOXES.

I REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.

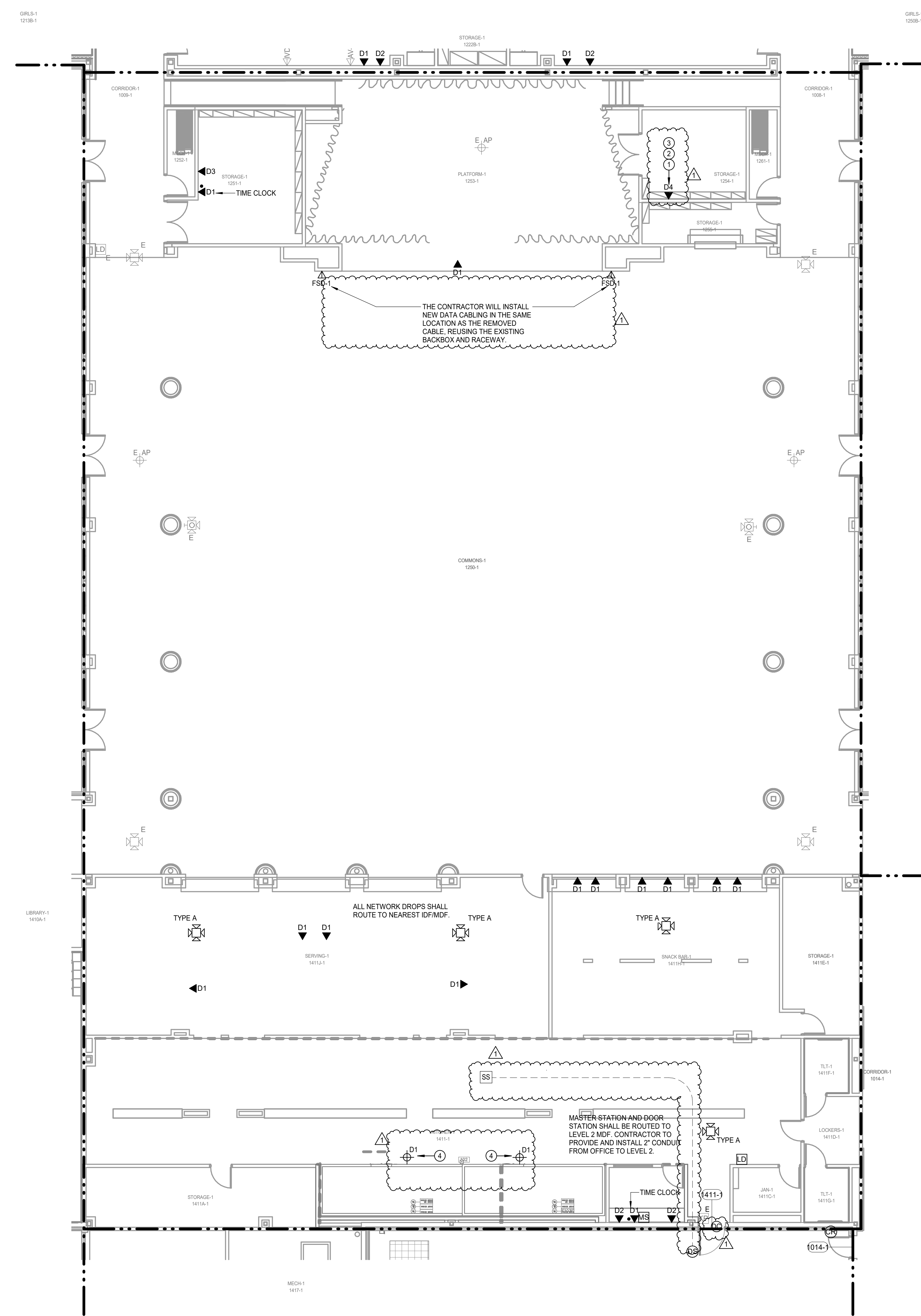
**TECHNOLOGY PLAN KEYED NOTES**

1 NETWORK OUTLET RESERVED FOR AV SYSTEM HEAD END RACK. COORDINATE WITH AV CONSULTANT DRAWINGS ON FINAL AV RACK LOCATION.

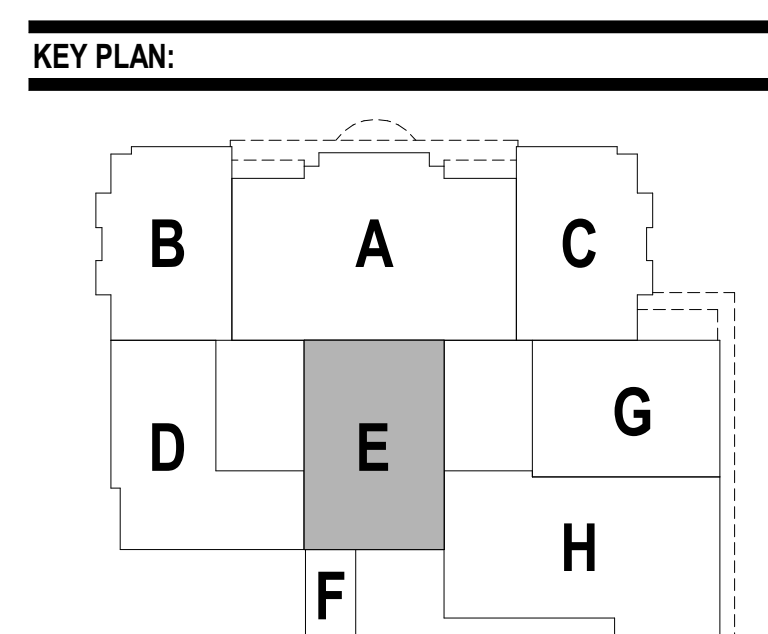
2 FIRE ALARM CONTRACTOR TO PROVIDE A CONTACT CLOSURE TO THE AUDIO-VIDEO RACK FOR EMERGENCY MUTING OF AUDIO SYSTEM WHEN SYSTEM IS IN ALARM.

3 INTERCOM CONTRACTOR TO PROVIDE A CONTACT CLOSURE TO THE AUDIO-VIDEO RACK FOR LOCKDOWN EMERGENCY MUTING OF AUDIO SYSTEM WHEN SYSTEM IS IN ALARM.

4 DATA CONNECTION RESERVED FOR FREEZER/COOLER MONITORING.



**1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA 'E'**  
 Scale: 1/8" = 1'-0"



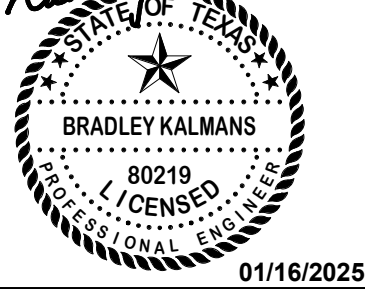
**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**HOPPER MIDDLE SCHOOL**  
 7811 FRY RD, CYPRESS, TX 77433  
 CFSID PROJECT NO: 24-02-5750-R-RFP

Project Number: 22084  
 Date: 29 DECEMBER 2024  
 Drawn by: NY

**TECHNOLOGY FIRST FLOOR PLAN - AREA 'E'**  
**T2.05**



**BID DOCUMENTS**



**FIRE ALARM**

A FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28-46.00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

**TECHNOLOGY PLAN KEYED NOTES**

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4 DATA CONNECTION RESERVED FOR FREEZER/COOLER MONITORING.

**TECHNOLOGY PLAN GENERAL NOTES**

A COORDINATE ALL FINAL MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.

B COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT (IF APPLICABLE) PRIOR TO ROUGH-IN.

C REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE PLANS, NOTES & LEGENDS AND DETAILS FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.

D REPLACE MECHANICAL BUILDING MANAGEMENT NETWORK DROPS WITH CATEGORY 6A DATA CIRCUIT AND REUSE EXISTING RACEWAYS AND BACKBOXES. COORDINATE WITH THE CONTRACTOR FOR EXACT LOCATION AND TERMINATION TYPE.

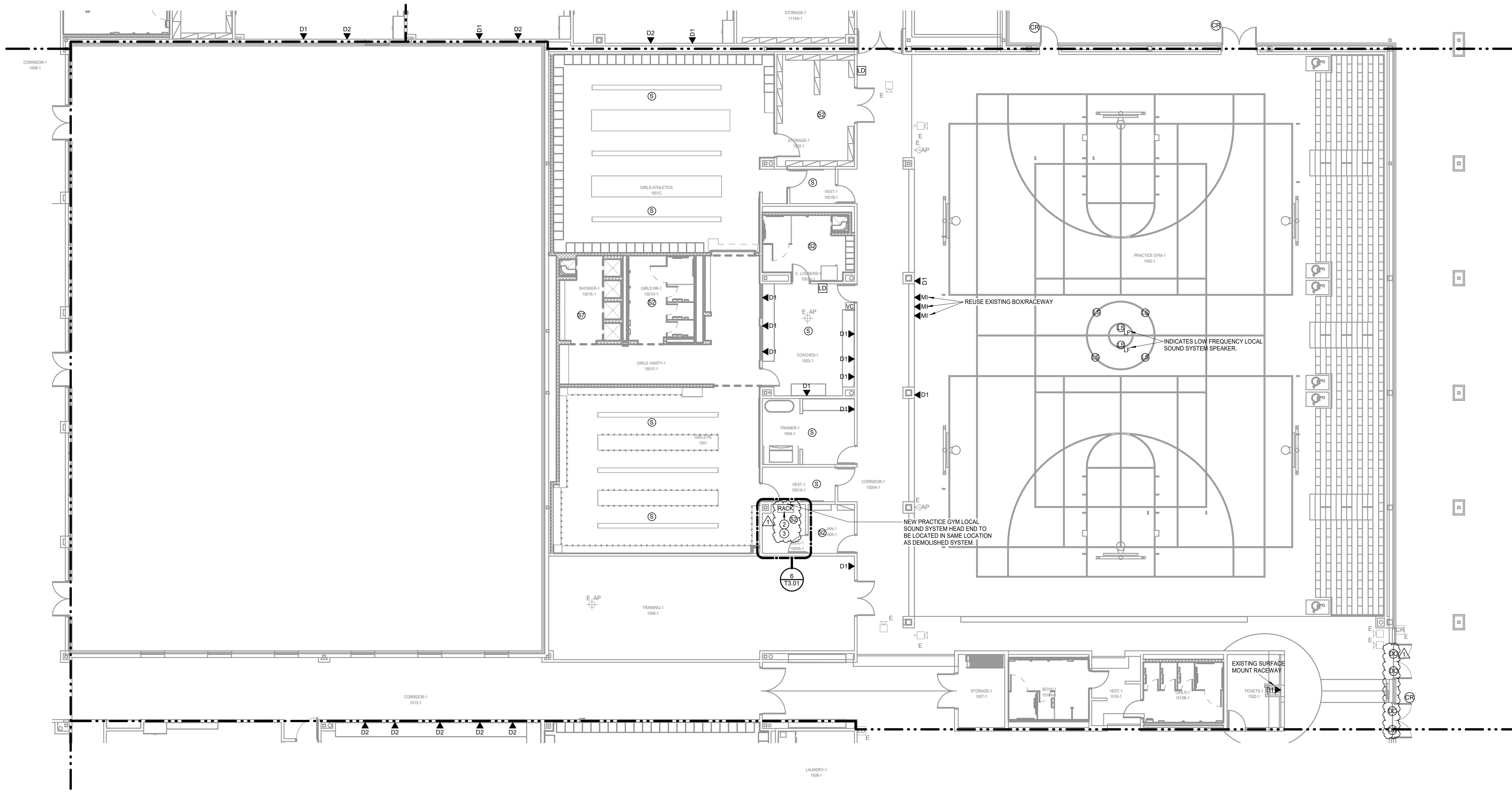
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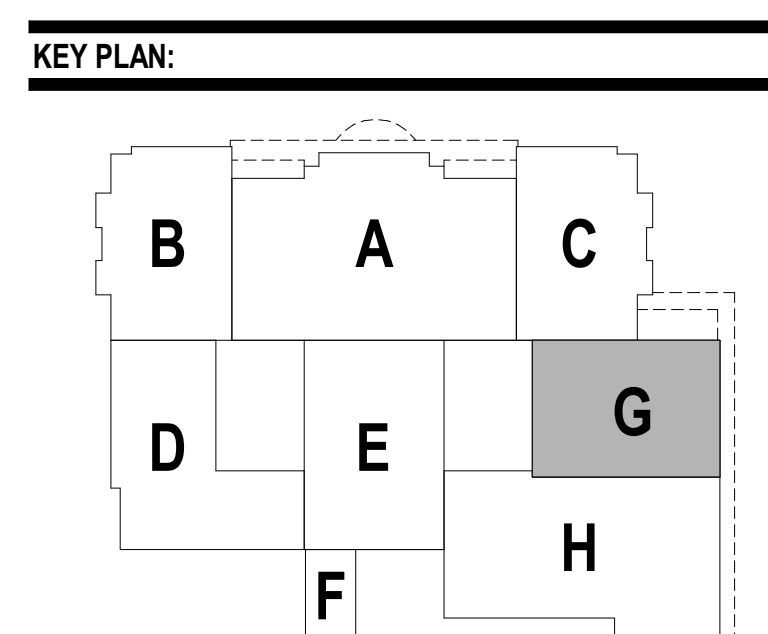
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H WORKSTATION DATA CABLING REPLACEMENT SHALL REUSE ALL EXISTING RACEWAYS AND BACKBOXES.

I REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.



**1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA 'G'**  
 Scale: 1/8" = 1'-0"



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
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 7811 FRY RD, CYPRESS, TX 77433  
 CFSID PROJECT NO: 24-02-5750-R-RFP

Project Number: 22084  
 Date: 29 DECEMBER 2024  
 Drawn by: NY

**TECHNOLOGY FIRST FLOOR PLAN - AREA 'G'**

**T2.07**

**TECHNOLOGY PLAN KEYED NOTES**

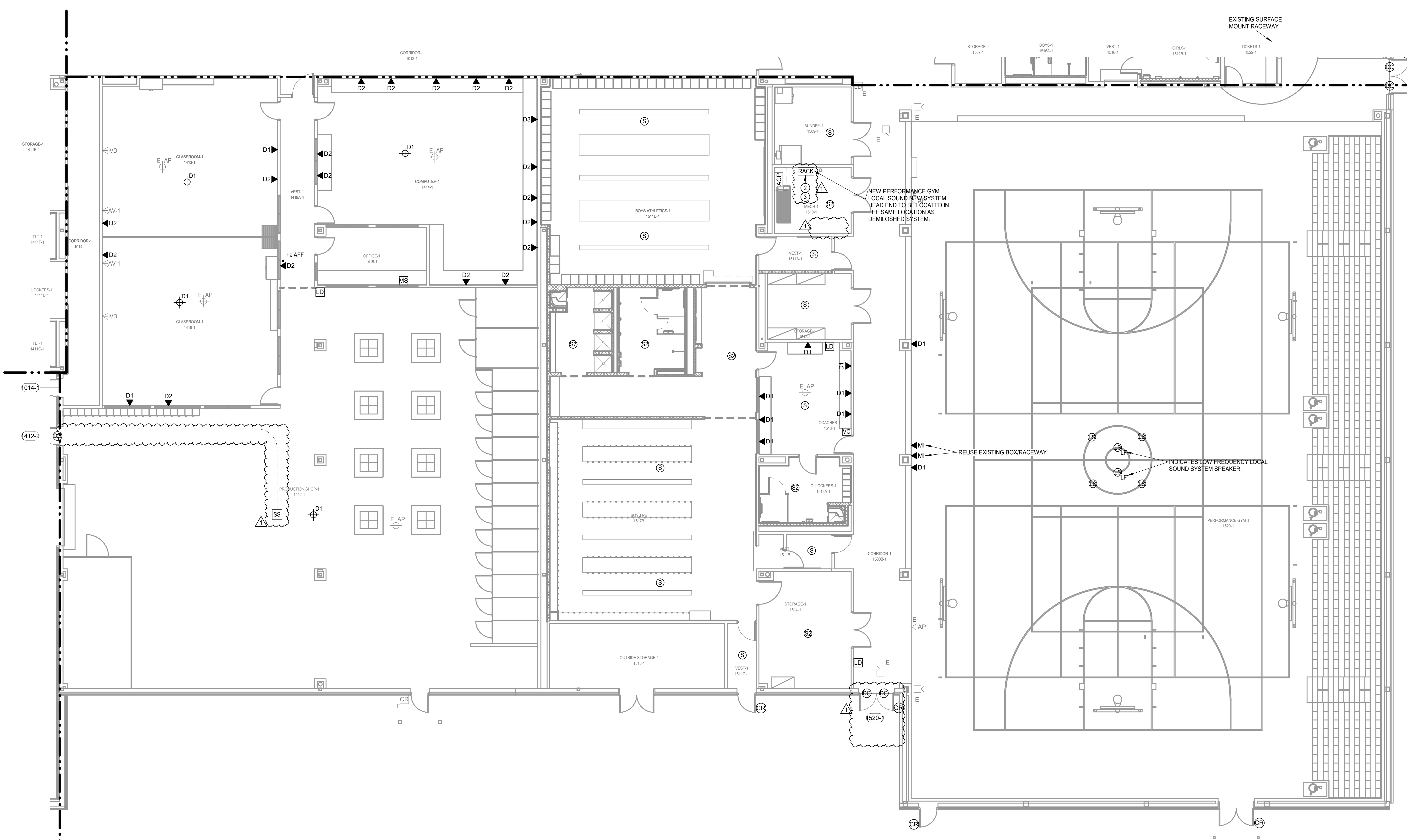
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- 3 INTERCOM CONTRACTOR TO PROVIDE A CONTACT CLOSURE TO THE AUDIO-VIDEO RACK FOR LOCKDOWN EMERGENCY MUTING OF AUDIO SYSTEM WHEN SYSTEM IS IN ALARM.
- 4 DATA CONNECTION RESERVED FOR FREEZER/COOLER MONITORING.

**FIRE ALARM**

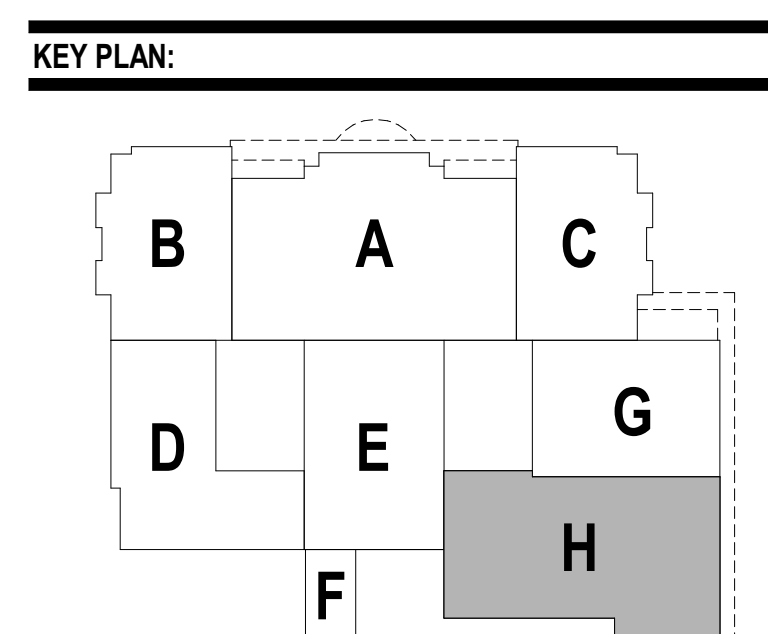
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**TECHNOLOGY PLAN GENERAL NOTES**

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- H WORKSTATION DATA CABLING REPLACEMENT SHALL REUSE ALL EXISTING RACEWAYS AND BACKBOXES.
- I REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.



**1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA 'H'**  
 Scale: 1/8" = 1'-0"



- General Notes:**
- All power conduit and fill shown on the "TE" series drawings are for diagrammatic purposes only. Refer to project electrical drawings for sizing and fill requirements.
  - Refer to sheet "TE0.00" for cable key.
  - All dimensions and loading shown are for diagrammatic purposes only. Verify all location dimensions with field conditions, and all loading with the structural engineer before construction or installation. Notify consultant of any changes required.
  - Interstitial steel shown on this drawing is to be designed by the project structural engineer and provided by the project structural contractor.
  - Miscellaneous steel above and beyond what is shown may be required for connection of stage lighting to roof steel. It is the responsibility of the theatrical lighting contractor to provide any miscellaneous steel and to coordinate this with the general contractor.
  - Theatrical Rigging contractor to verify the load capacity of the structure with the project structural engineer.
  - All power conduit and wire sizing per NEC and all applicable local codes.



**NATEX CORPORATION ARCHITECTS**  
www.natexarchitects.com  
447 Heights Boulevard  
Houston, TX 77007  
Phone: 713-975-9525  
Fax: 713-780-7824

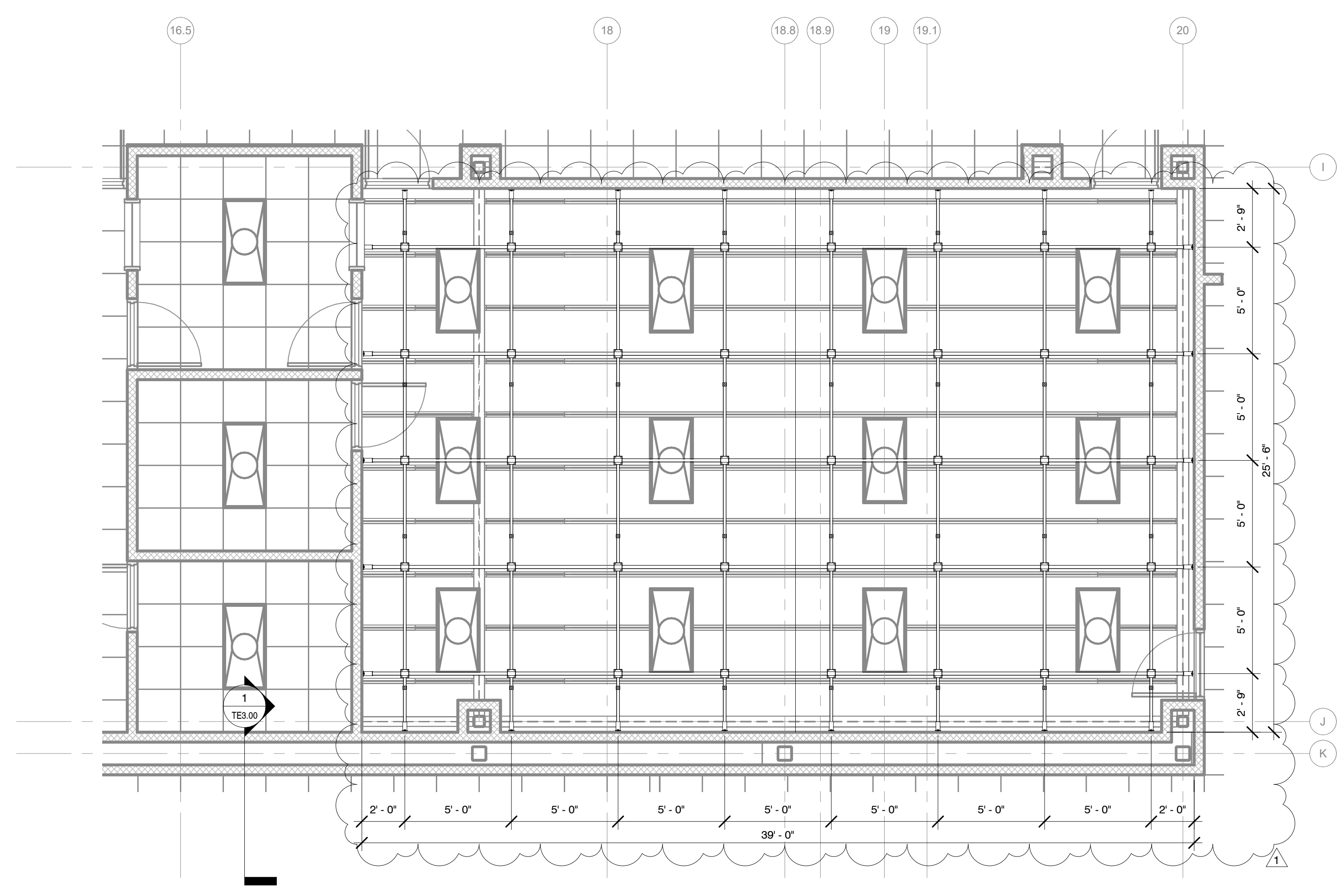


**Coleman Partners ARCHITECTS**  
www.cpa.com

3701 Kirby Drive, Suite 830  
Houston, TX 77098  
tel: 832.947.1038 fax: 281.214.5365

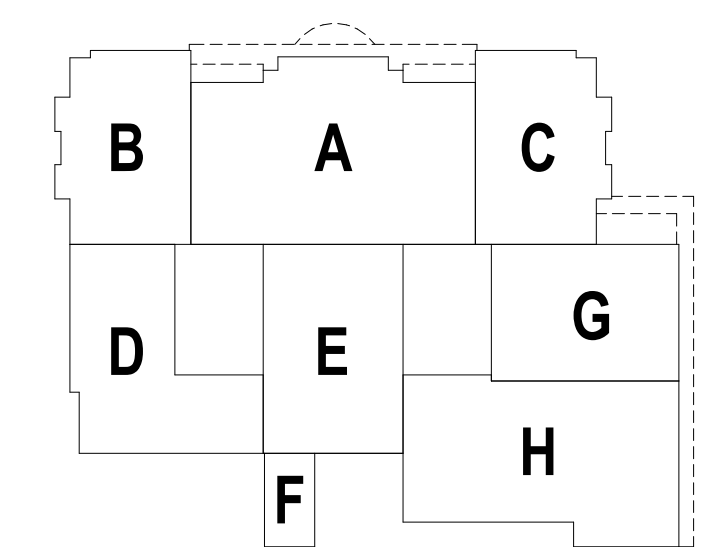
**CONSTRUCTION DOCUMENT**

- CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
21020 PARK ROW  
KATY, TX 77449  
tel: 281.578.9595
- STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
9800 RICHMOND AVE.  
SUITE 400  
HOUSTON, TX 77042  
tel: 713.337.8881
- MEPT ENGINEER**  
**SALAS O'BRIEN**  
10930 W. SAM HOUSTON PKWY. N.  
SUITE 900  
HOUSTON, TX 77064  
tel: 281.664.1900
- FOOD SERVICE EQUIPMENT**  
**FDP**  
25317 INTERSTATE 45  
THE WOODLANDS, TX 77380  
tel: 281.350.2323
- LANDSCAPE ARCHITECT**  
**LANDESIGN GROUP**  
17041 EL CAMINO REAL  
SUITE 204  
HOUSTON, TX 77058  
tel: 281.486.4040



**1** TE - 1ST FLOOR CEILING PLAN DRAMA 1223  
1/4" = 1'-0"

**KEY PLAN:**



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**HOPPER MIDDLE SCHOOL**  
7811 FRY RD, CYPRESS, TX 77433  
CFISD PROJECT NO: 24-02-5750-R-RFP

T. ADDENDUM 02 01-16-25  
Revisions / Submission

Project Number: 22084  
Date: 29 DECEMBER 2024  
Drawn by: WHL / KLO

**TE - 1ST FLOOR CEILING PLAN DRAMA 1223**

**TE11.12**



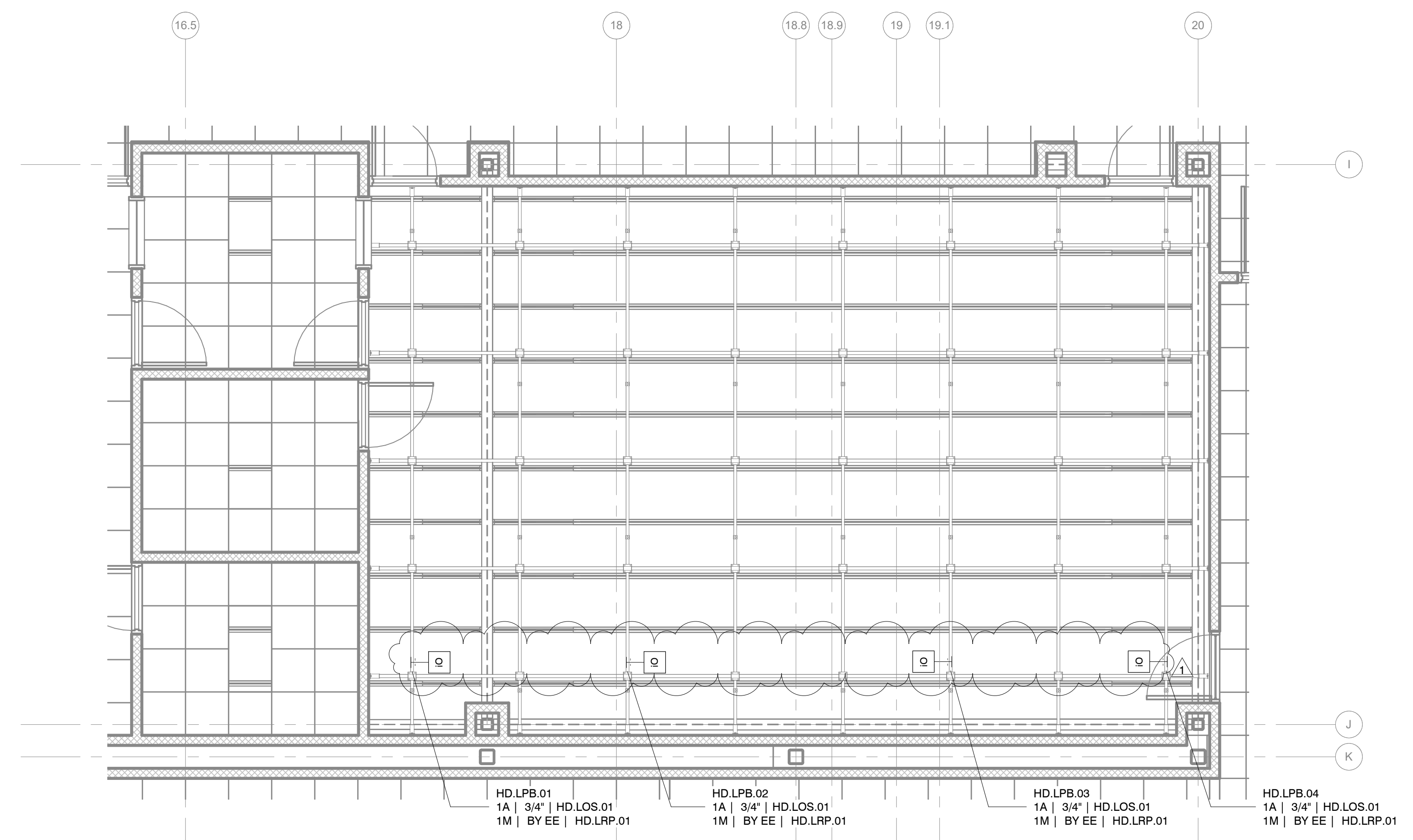
- General Notes:**
- All power conduit and fill shown on the "TL" series drawings are for diagrammatic purposes only. Refer to project electrical drawings for sizing and fill requirements.
  - Refer to sheet TL.0.00 for cable schedule.
  - All dimensions and loading shown are for diagrammatic purposes only. Verify all location dimensions with field conditions, and all loading with the Structural Engineer before construction or installation. Notify Consultant of any changes required.
  - Interstitial steel shown on this drawing is to be designed by the project Structural Engineer and provided by the project Structural Contractor.
  - Miscellaneous steel above and beyond what is shown may be required for connection of stage lighting to roof steel. It is the responsibility of the Theatrical Lighting Contractor to provide any miscellaneous steel and to coordinate this with the General Contractor.
  - Theatrical Lighting Contractor to verify the load capacity of the structure with the project Structural Engineer.
  - All power conduit and wire sizing to be determined by EE per NEC and all applicable local codes. All cable runs for Type A cable shall not exceed 295 feet.

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 www.nateearchitects.com  
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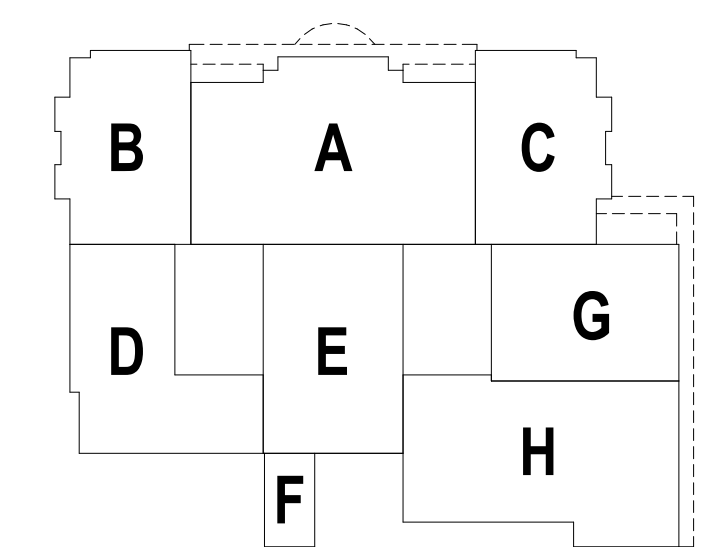
**CONSTRUCTION DOCUMENT**

- CIVIL ENGINEER**  
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 21020 PARK ROW  
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**1 TL - 1ST FLOOR CEILING PLAN DRAMA 1223**  
 1/4" = 1'-0"

**KEY PLAN:**



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**HOPPER MIDDLE SCHOOL**  
 7811 FRY RD, CYPRESS, TX 77433  
 CFISD PROJECT NO: 24-02-5750-R-RFP

T. ADDENDUM 02 01-16-25  
 Revisions / Submission

Project Number: 22084  
 Date: 29 DECEMBER 2024  
 Drawn by: WHL / KLO

**TL - 1ST FLOOR CEILING PLAN DRAMA 1223**

**TL11.12**





### 5 FINE ARTS DEMO PHOTOS

- DEMOLITION KEYNOTES**
- DC-10 DEMOLISH ACoustical CEILING TILE AND SUSPENSION SYSTEM COMPLETE. REFER TO MEPT DRAWINGS FOR ADDITIONAL DEMO INSTRUCTION.
  - DD-10 CAREFULLY REMOVE DOOR AND FRAME. INFILL OPENING TO MATCH ADJACENT WALL. REMOVE WALL MATERIALS ADJACENT TO EXISTING OPENING IN ORDER TO INFILL OPENING FOR SEAMLESS WALL TRANSITION.
  - DD-11 CAREFULLY REMOVE DOOR, FRAME & HARDWARE; PATCH, REPAIR, & CLEAN EXISTING OPENING AS REQUIRED FOR NEW DOOR AND FRAME INSTALL.
  - DE-10 EXISTING SOUND SYSTEM TO REMAIN. REMOVE AND REINSTALL IF NECESSARY TO ACCOMMODATE RENOVATION WORK. CONTRACTOR TO ENSURE SPEAKERS ARE FUNCTIONING BEFORE AND AFTER RENOVATION. RE: ELEC.
  - DE-11 CAREFULLY REMOVE SOUND SYSTEM INCLUDING MOUNTING BRACKETS. RE-INSTALL IN NEW ORCHESTRA ROOM IN SIMILAR LAYOUT ABOVE MARKER BOARDS. CONTRACTOR TO ENSURE SPEAKERS ARE FUNCTIONING BEFORE AND AFTER RENOVATION. RE: ELEC.
  - DE-15 REMOVE PROJECTION SCREEN COMPLETE.
  - DE-30 EXISTING TOPCAT SPEAKER TO REMAIN.
  - DE-31 CAREFULLY REMOVE EXISTING TOPCAT SPEAKER. BAGGED AND KEPT IN PLACE FOR OWNER TO REINSTALL IN NEW LOCATION.
  - DF-10 REMOVE & DISPOSE CARPET FLOORING & BASE.
  - DF-11 REMOVE & DISPOSE OF VCT FLOORING & BASE.
  - DF-12 REMOVE & DISPOSE TILE FLOORING & TILE BASE. STRUCTURAL GLAZED TILE BASE TO REMAIN.
  - DM-01 EXISTING METAL SHELVING TO REMAIN. REMOVE, STORE AND REINSTALL AS REQUIRED TO ACCOMMODATE RENOVATION WORK.
  - DM-02 EXISTING MARKER / TACK BOARD TO REMAIN. CLEAN BOARDS AFTER ALL RENOVATION IS COMPLETE.
  - DM-05 EXISTING SOUND SYSTEM TO REMAIN. REMOVE AND REINSTALL AS REQUIRED TO ACCOMMODATE RENOVATION WORK. CONTRACTOR TO ENSURE SPEAKERS ARE FUNCTIONING BEFORE AND AFTER RENOVATION. RE: ELEC.
  - DM-07 REMOVE AND STORE EXISTING METAL SHELVING UNITS TYPICAL FOR RE-USE.
  - DM-08 TROPHY SHELF TO REMAIN. REMOVE AND REINSTALL AS REQUIRED TO ACCOMMODATE RENOVATION WORK.
  - DM-10 REMOVE & DISPOSE CASEWORK AND COUNTERTOPS IN THEIR ENTIRETY. SALVAGE ANY INTERCOM / AUDIO EQUIPMENT, CLOCKS, PHONES, COMPUTERS, ETC. ATTACHED TO DESK TO BE REMOVED.
  - DM-12 CAREFULLY REMOVE & DISPOSE PLAM TOP OVER EXISTING LOCKERS. PREP SURFACES AS REQUIRED TO RECEIVE NEW LOCKER TOP.
  - DM-15 REMOVE & DISPOSE TROPHY SHELF.
  - DM-16 REMOVE AND DISPOSE INSTRUMENT CASEWORK.
  - DM-17 REMOVE AND DISPOSE CHAIR BLEACHERS.
  - DM-18 CONTRACTOR SHALL NOT MOVE KILN. GC TO COORDINATE WITH OWNER'S APPROVED VENDOR FOR RELOCATION OF KILN. CERAMIC STORE OF HOUSTON, 1002 W. 11TH ST., HOUSTON, TX 77008. 713-864-6442.
  - DM-21 REMOVE AND DISPOSE PROJECTION SCREENS TYPICAL.
  - DM-20 REMOVE AND DISPOSE APPLIANCES UNLESS OTHERWISE NOTED. INCL BUT NOT LIMITED TO EXHAUST HOODS, RANGES, REFRIGERATORS AND DISHWASHERS. RE: MEPT.
  - DP-03 EXISTING UTILITY SINK TO REMAIN.
  - DP-10 REMOVE & DISPOSE SINK. TERMINATE UTILITIES AS REQ'D. RE: TO PLUMBING.
  - DP-11 REMOVE & DISPOSE SINK. TERMINATE UTILITIES AS REQ'D. RE: TO PLUMBING.
  - DS-02 DEMOLISH PAVING / DRIVE; RE: CIVIL.
  - DW-10 REMOVE PORTION OF EXISTING CMU WALL TO CREATE NEW DOOR / WINDOW OPENING. REFER TO NEW SCHEDULED DOOR / WINDOW FOR EXTENT OF DEMOLITION REQUIRED. SHORE & BRACE AS REQUIRED PER STRUCTURAL.
  - DW-11 REMOVE CMU WALL IN ITS ENTIRETY. PROTECT SURROUNDING AREA FROM DAMAGE.
  - DW-12 REMOVE PORTION OF MASONRY WALL AS REQUIRED TO CREATE NEW FINISHED OPENING. SHORE & BRACE AS REQ'D PER STRUCTURAL PREPARE FOR NEW CONSTRUCTION AS SHOWN.
  - DW-14 REMOVE COLUMN FURR-OUT WALLS. PROTECT FIRE PROOFED STEEL COLUMNS DURING DEMOLITION & CONSTRUCTION.
  - DW-17 REMOVE PORTION OF EXTERIOR CMU & BRICK WALL TO CREATE NEW WALL OPENING (DOOR, WINDOW OR LOUVER). PROTECT SURROUNDING AREA FROM DAMAGE. - RE: STRUCTURAL FOR INFORMATION ON SHORING & INSTALLATION OF NEW LINTELS, SILL INFILL OF LEDGES, ETC.
  - DW-20 REMOVE EXTERIOR WALL IN ITS ENTIRETY WHERE INDICATED (FROM BRICK LEDGE TO UNDER ROOF DECK OR TOP OF PARAPET) INCLUDING DOORS, WINDOWS, & OPENINGS. SHORE UP ROOF AS REQUIRED. CONTRACTOR SHALL VERIFY STRUCTURAL, ELECTRICAL, MECHANICAL, & PLUMBING IN EXISTING WALLS AND COORDINATE ANY WORK REQUIRED PRIOR TO DEMOLITION. PATCH, REPAIR, & CLEAN ALL ADJACENT WALLS TO RECEIVE NEW WORK AS SHOWN ON DRAWINGS.
  - DW-22 REMOVE EXTERIOR BRICK FACADE AND RIGID INSULATION INSIDE WALL TO DIMENSION SHOWN ON DEMOLITION PLAN. REMOVE BRICK VERTICALLY, FROM BRICK LEDGE TO UNDER ROOF DECK. PROTECT CMU BACK UP WALLS THAT REMAIN IN PLACE, DURING DEMOLITION & CONSTRUCTION; REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INSTRUCTION.
  - DW-26 CAREFULLY REMOVE PORTION OF CMU WALL AS REQUIRED FOR PLUMBING DEMO AND INSTALLATION. REFER TO PLUMBING DRAWINGS TO DETERMINE EXTENT OF DEMO.
  - DW-30 REMOVE ALL ACoustical WALL PANELS INSIDE ROOM.

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**PERMIT ISSUE / QA/QC**  
3100 West Loop South, Suite 200  
Houston, TX 77024  
Tel: 281-486-4040

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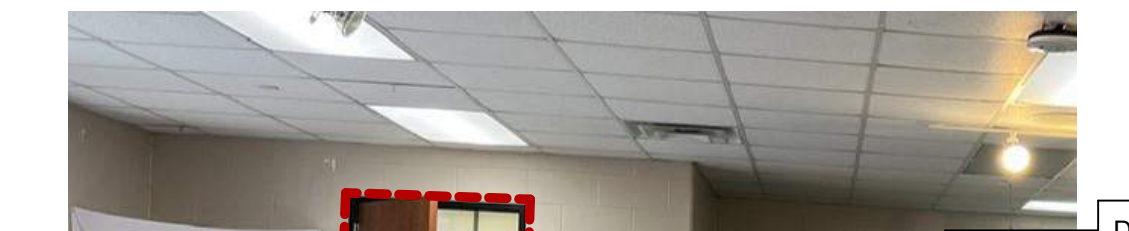
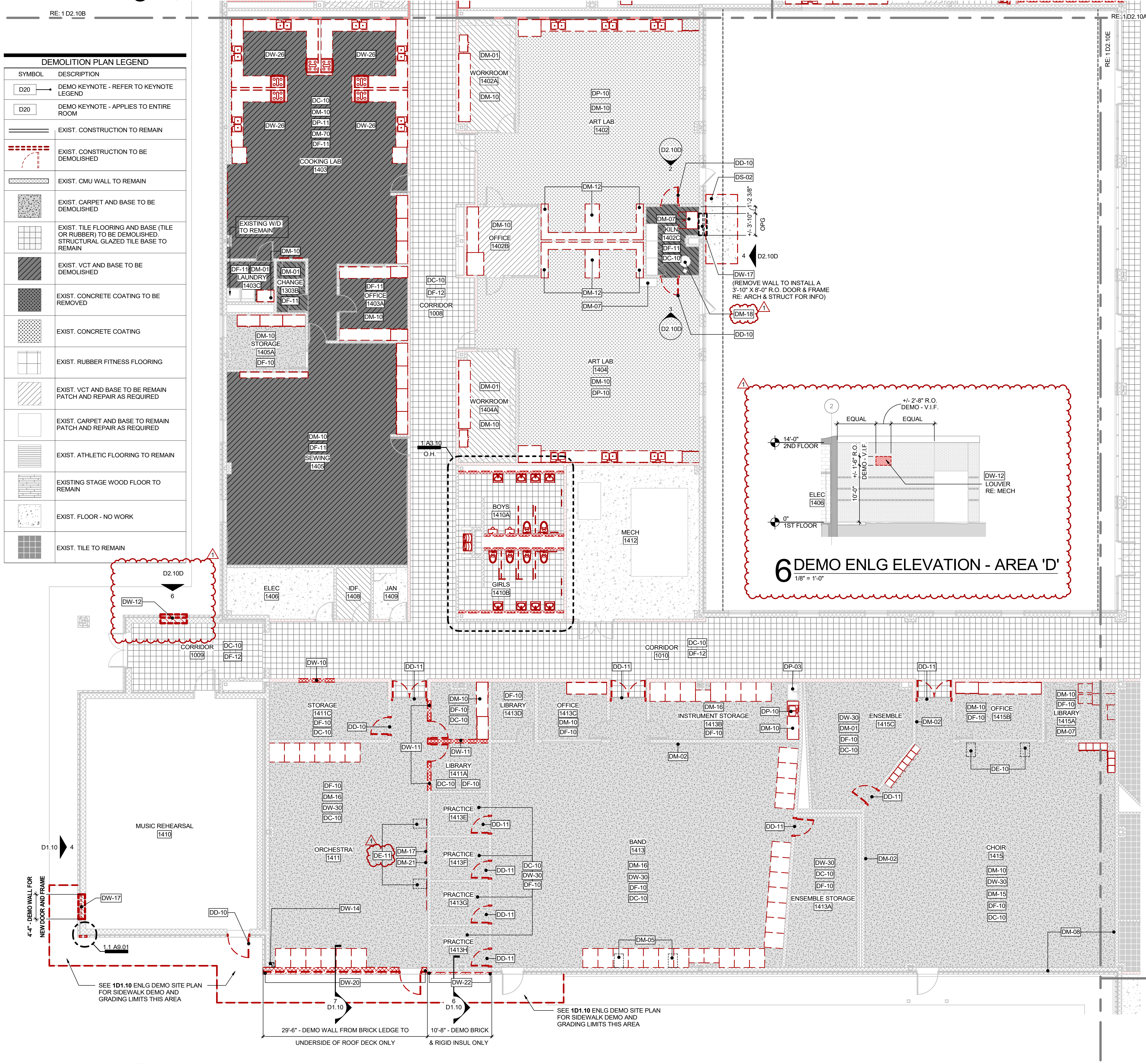
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**KAHLA MIDDLE SCHOOL**  
16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
CFISD PROJECT NO: 24-02-5750-R-RFP

Revision / Submission	01-16-25
T. ADDENDUM 02	

Project Number: 23072  
Date: 29 DECEMBER 2024  
Drawn by: WHL / KLO

**DEMOLITION PLAN AREA 'D'**

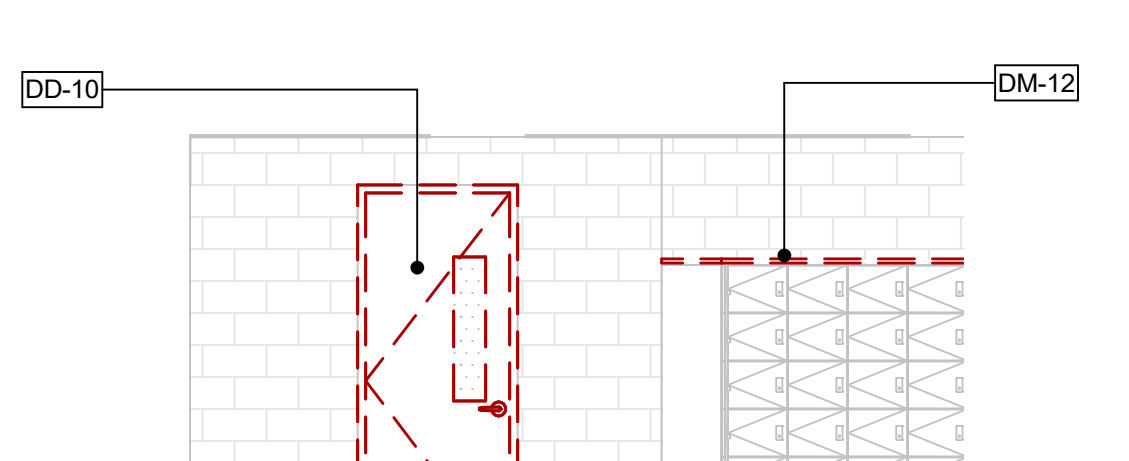
**D2.10D**



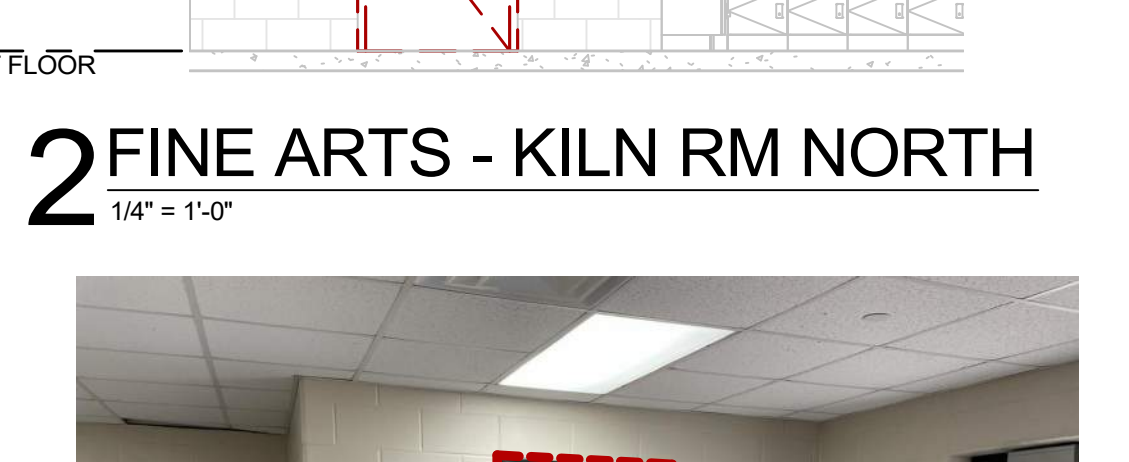
2.1 KILN ROOM / ART ROOM DOOR DEMO LOCATION



2.2 FINE ARTS - KILN RM NORTH



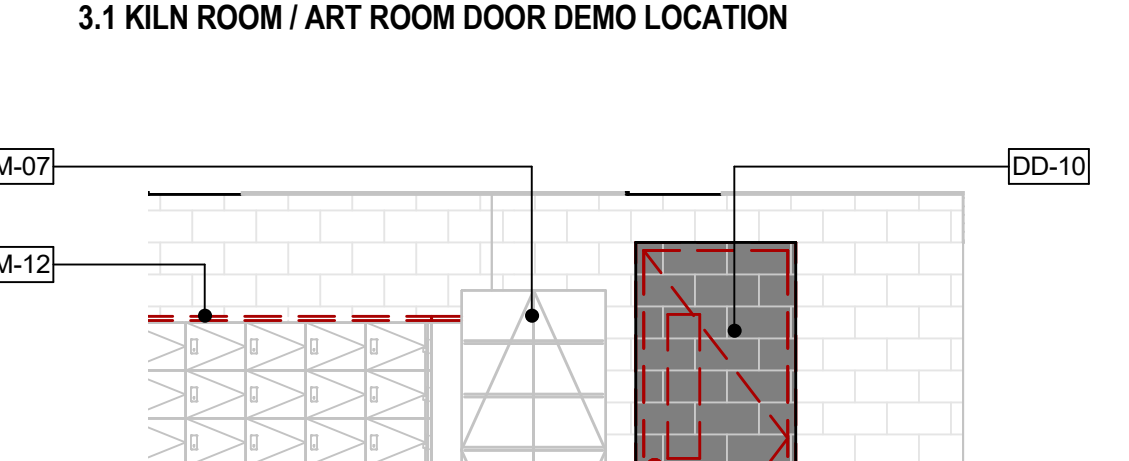
3.1 KILN ROOM / ART ROOM DOOR DEMO LOCATION



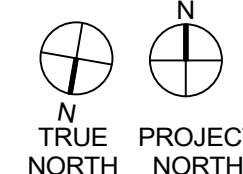
3.2 FINE ARTS - KILN RM SOUTH



4.1 KILN ROOM WALL DEMO LOCATION



4.2 FINE ARTS - KILN RM EAST

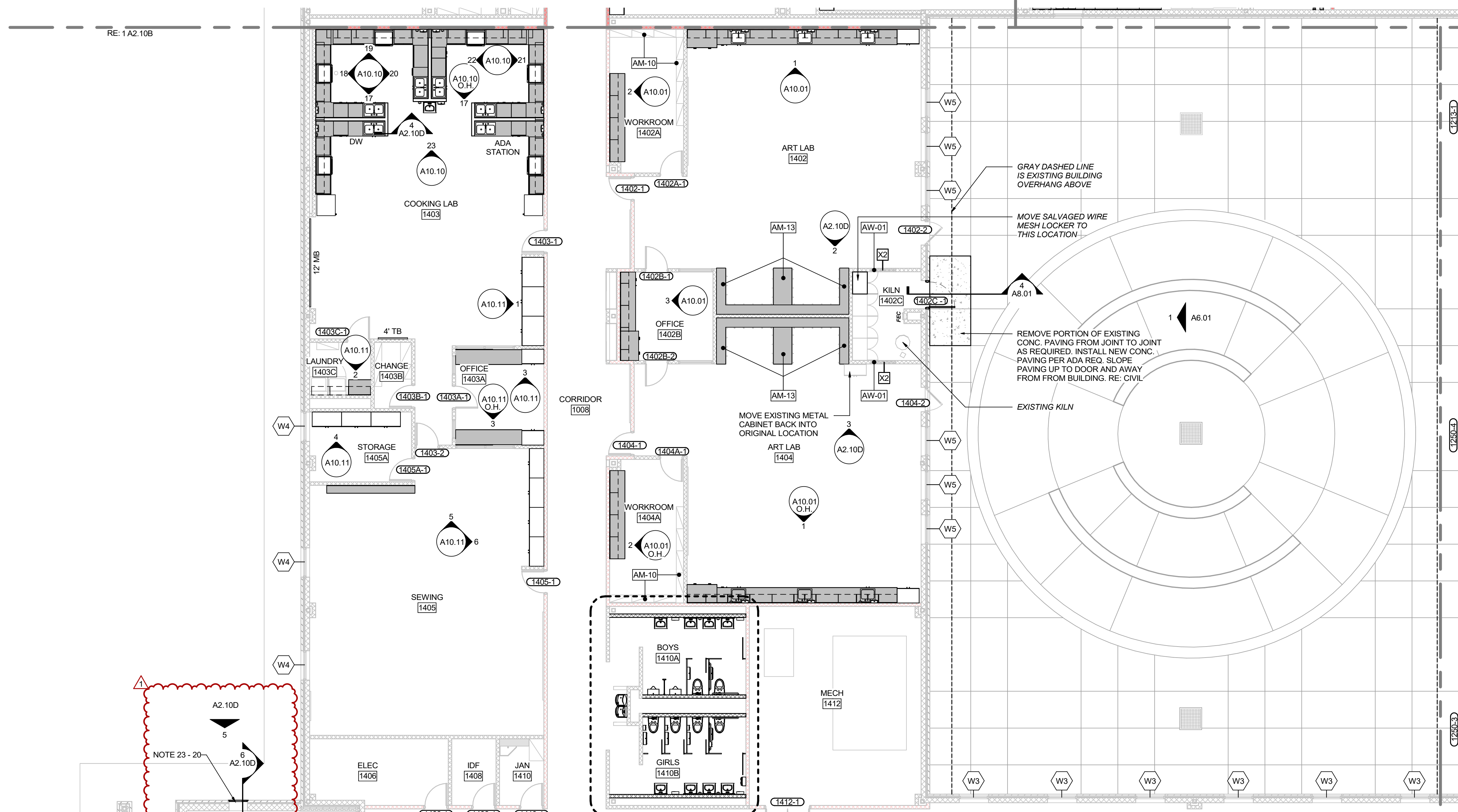


### 1 1ST FLOOR DEMOLITION PLAN - AREA 'D'

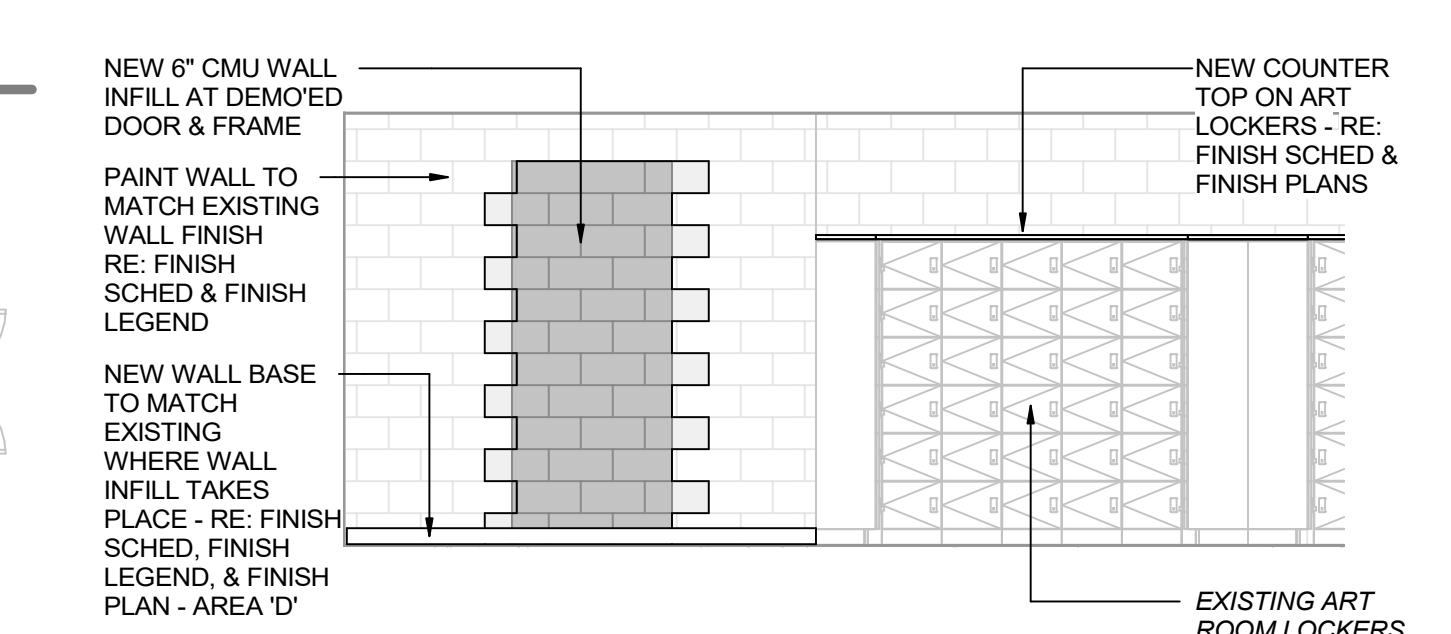
1/8" = 1'-0"

SCALE: 1/8" = 1'-0"  
0 4'-0" 8'-0" 16'-0"

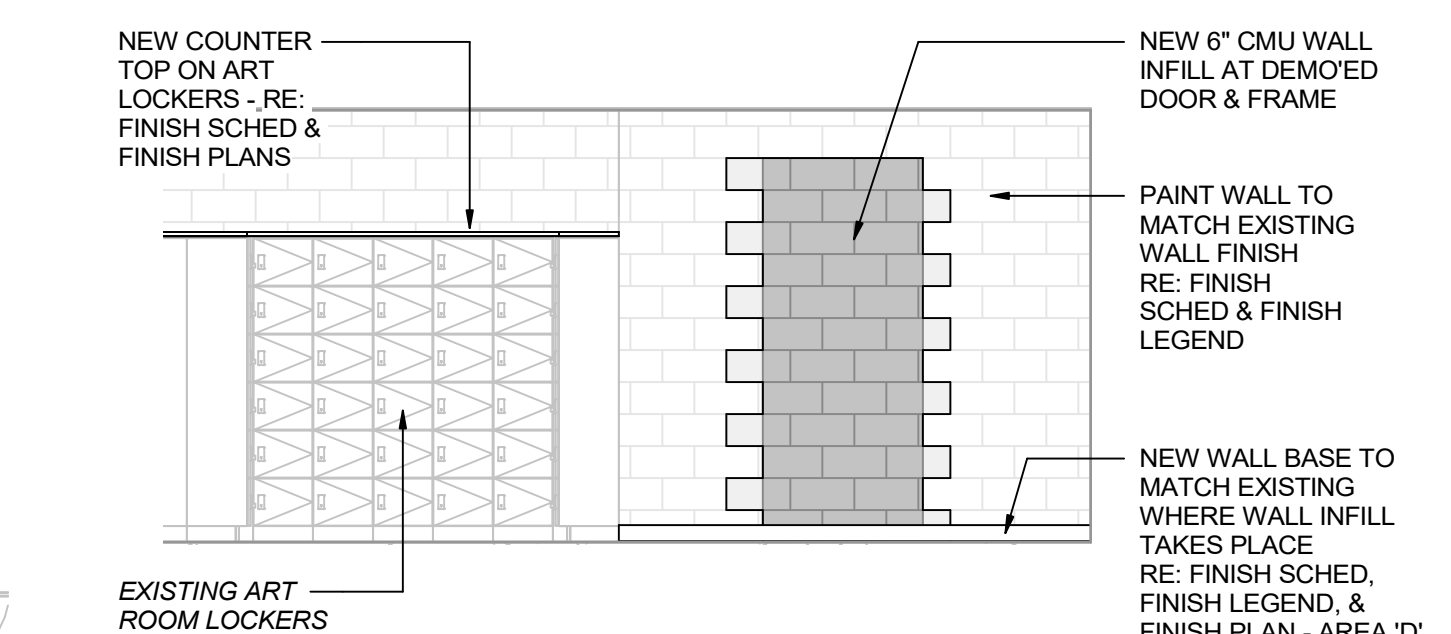




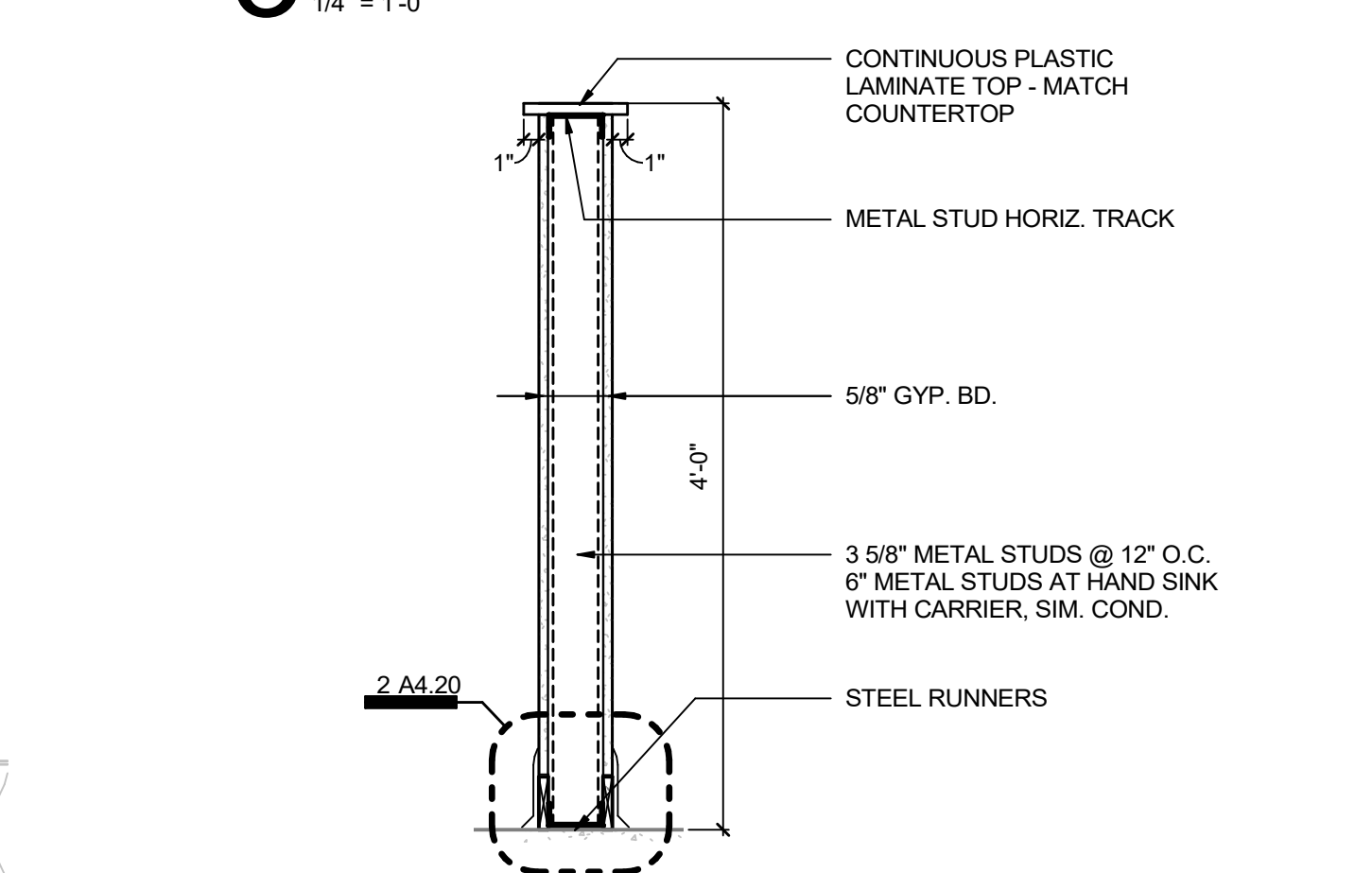
**1 1ST FLOOR PLAN - AREA 'D'**  
1/8" = 1'-0"



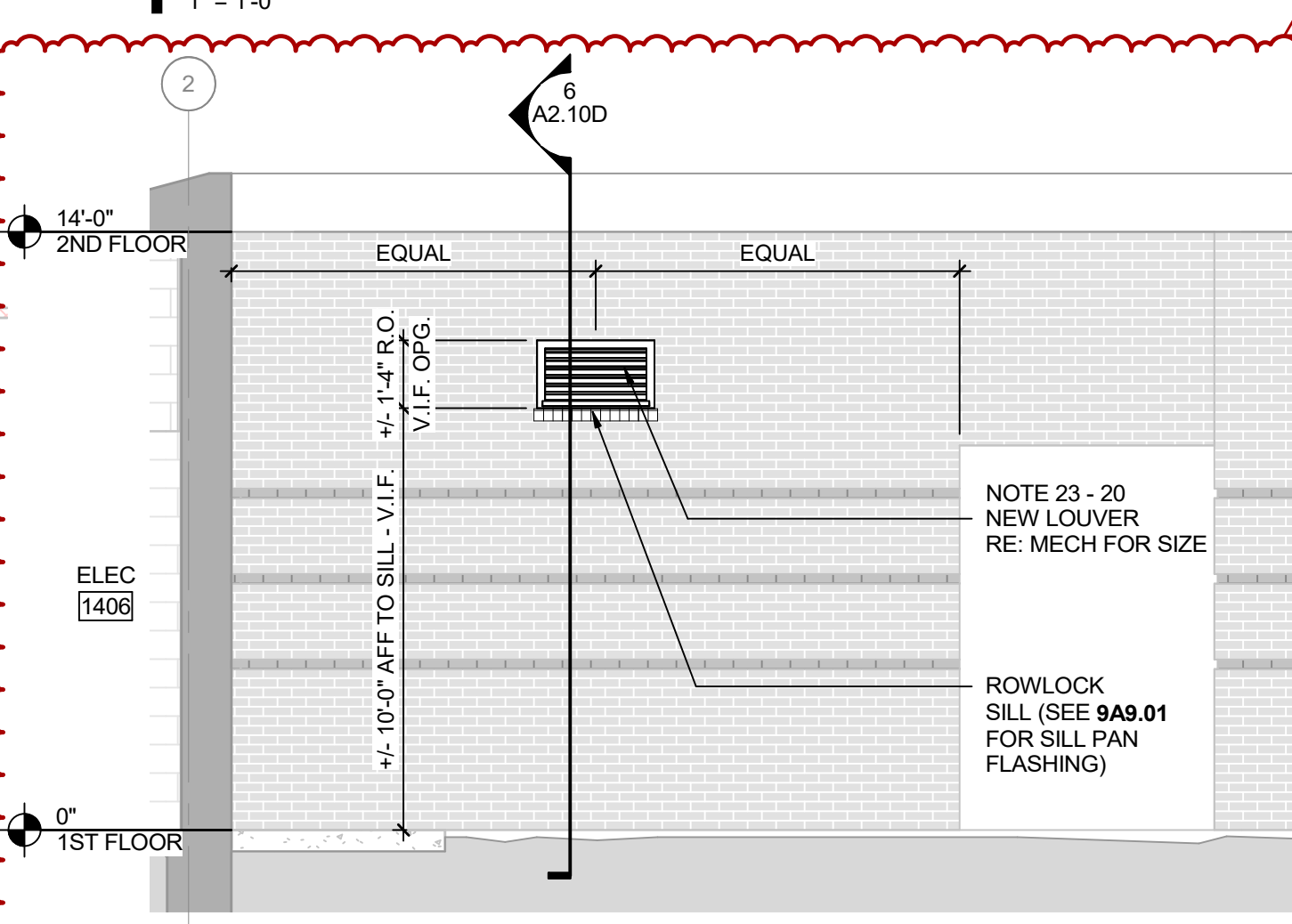
**2 ART RM - 1402**  
1/4" = 1'-0"



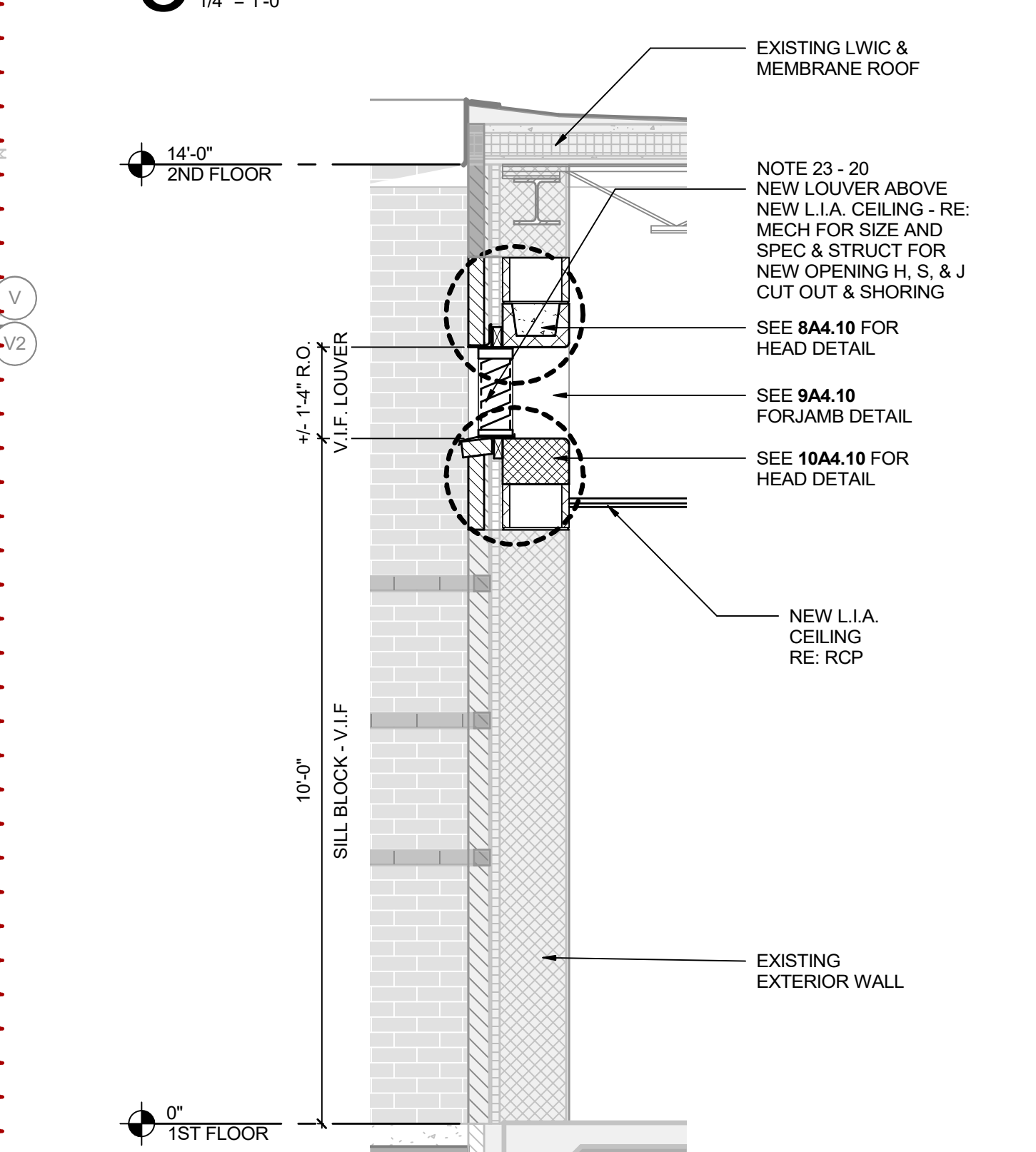
**3 ART RM - 1404**  
1/4" = 1'-0"



**4 WALL SECTION - COOKING LAB**  
1" = 1'-0"



**5 ENLG ELEVATION - NEW LOUVER**  
1/4" = 1'-0"



**6 WALL SECTION - NEW LOUVER**  
1/2" = 1'-0"

**FLOOR PLAN RENOVATION NOTES**

- REFER TO SHEET A2.01 FOR FLOOR PLAN RENOVATION NOTES
  - REFER TO SHEET A1.10 FOR SITE PLAN RENOVATION LIMITS AND DETAILS FOR NEW PAVING AROUND BUILDING
- KEYNOTES**
- AD-05 INSTALL NEW DOOR AND FRAME IN EXISTING WALL OPENING WHERE DOOR AND FRAME WERE REMOVED. RE: DOOR SCHEDULE
  - AD-06 INSTALL NEW DOOR AND FRAME IN NEW WALL OPENING IN EXISTING WALL. RE: DOOR SCHEDULE
  - AM-01 RE-INSTALL EXIST. METAL SHELVING UNITS SALVAGED DURING DEMO. FASTEN AND SECURE TO WALL
  - AM-10 EXISTING METAL SHELVING TO REMAIN
  - AM-13 REPLACE EXISTING PLAM CAP ABOVE LOCKERS WITH NEW PLAM CAP. PLAM TO MATCH NEW COUNTERTOP
  - AW-01 INFILL CMU WALL OPENING AS REQUIRED TO MATCH AND BLEND IN WITH ADJACENT SURFACES IN SIZE AND LAYOUT. PREP WALL TO RECEIVE NEW SCHEDULED FINISHES.
  - AW-11 #4 X 8W CONCRETE CURB IN FRONT OF MECHANICAL ROOM DOOR
- NOTE 23 - 20 INTAKE LOUVER W/ INSECT SCREEN. RE: MECHANICAL

**INSTRUMENT CASEWORK SCHEDULE**

- ORCHESTRA**
- W5 - (10) 28"W X 85"H X 40"D INSTRUMENT STORAGE CABINET. CABINETS TO HAVE BACKING (BASIS OF DESIGN IS WENGER #11, 3 SLOTS VERTICALLY OR SIMILAR)
  - W11 - (8) 28"W X 85"H X 40"D INSTRUMENT STORAGE CABINET. CABINETS TO HAVE BACKING (BASIS OF DESIGN IS WENGER #11, 3 SLOTS VERTICALLY OR SIMILAR WITH CUSTOM DEPTH)
  - W11 - (2) 28"W X 85"H X 48"D INSTRUMENT STORAGE CABINET. CABINETS TO HAVE BACKING (BASIS OF DESIGN IS WENGER #11, 3 SLOTS VERTICALLY OR SIMILAR WITH CUSTOM DEPTH)
  - W10 - (16) 28"W X 85"H X 30"D LOCKABLE INSTRUMENT STORAGE CABINET. CABINETS TO HAVE BACKING AND ALTERNATING HORIZONTAL SHELVES AT MIDDLE SECTION (BASIS OF DESIGN IS WENGER #10, 3 SLOTS VERTICALLY OR SIMILAR)
  - W12 - (2) 48"W X 85"H X 30"D STORAGE CABINET. CABINETS TO HAVE BACKING (BASIS OF DESIGN IS WENGER #12, 3 SLOTS VERTICALLY OR SIMILAR)
  - W14 - (3) 28"W X 85"H X 40"D STORAGE CABINET. CABINETS TO HAVE BACKING (BASIS OF DESIGN IS WENGER #14, 2 SLOTS VERTICALLY OR SIMILAR)
  - W15 - (2) 48"W X 85"H X 30"D STORAGE CABINET. CABINETS TO HAVE BACKING (BASIS OF DESIGN IS WENGER #15, 2 SLOTS VERTICALLY OR SIMILAR). PROVIDE HANGING ROD IN TOP SECTION OF ONE UNIT
- CHOIR LIBRARY/STORAGE**
- WML - 3 SECTION MUSIC LIBRARY STORAGE WITH ABILITY FOR FUTURE LIBRARY EXPANSION (BASIS OF DESIGN IS WENGER #173E600 OR SIMILAR)

**CASEWORK LEGEND**

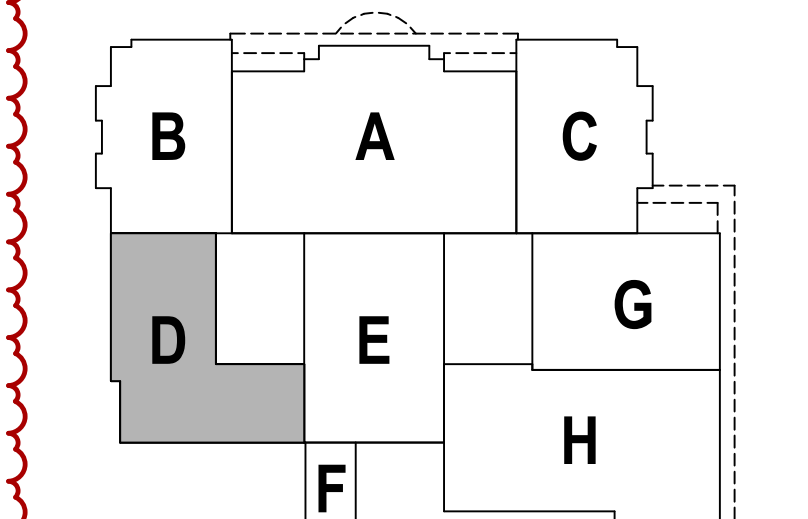
SYMBOL	DESCRIPTION
(A)	TEACHER CABINET (T330) RE: 3 A10.21
(B)	STORAGE CABINET (T402) RE: 1 A10.21
(C)	OPEN SHELVING CABINET (T400) RE: 4 A10.21

REFER TO CASEWORK DRAWINGS FOR ADDITIONAL INFORMATION

**PLAN LEGEND**

SYMBOL	DESCRIPTION
(FE)	FIRE EXTINGUISHER MOUNTED ON WALL BRACKETS
(FEC)	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET MOUNTED ON WALL
(KB)	KNOX BOX LOCATION
MB/TB	MARKER BOARD / TACKBOARD RE: SPECS
(Masonry Wall)	MASONRY WALL
(1 HR Wall)	1 HR FIRE-RATED MASONRY WALL
(2 HR Wall)	2 HR FIRE-RATED MASONRY WALL
(A)	ALIGN PARTITIONS

**KEY PLAN:**



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Phone: 713-975-9525  
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**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**

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16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
CFSD PROJECT NO: 24-02-5750-R-RFP

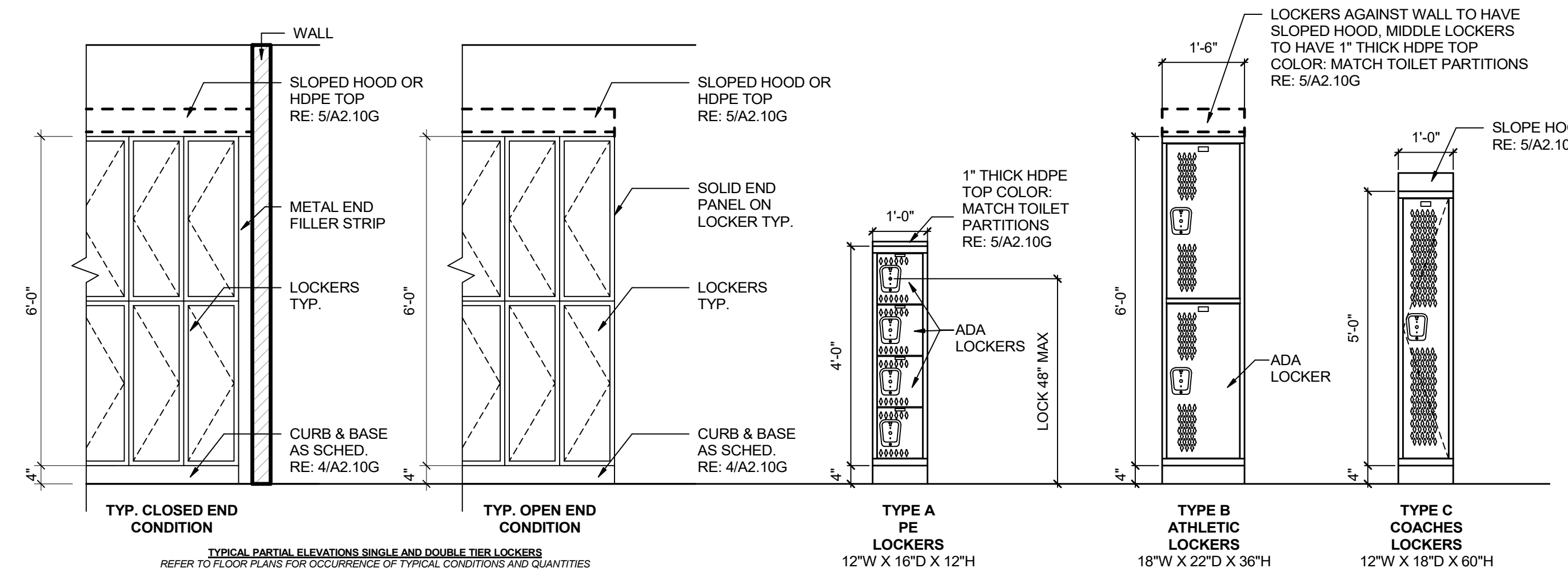
Project Number: 23072  
Date: 29 DECEMBER 2024  
Drawn by: WHL / KLO

**FLOOR PLAN AREA 'D'**

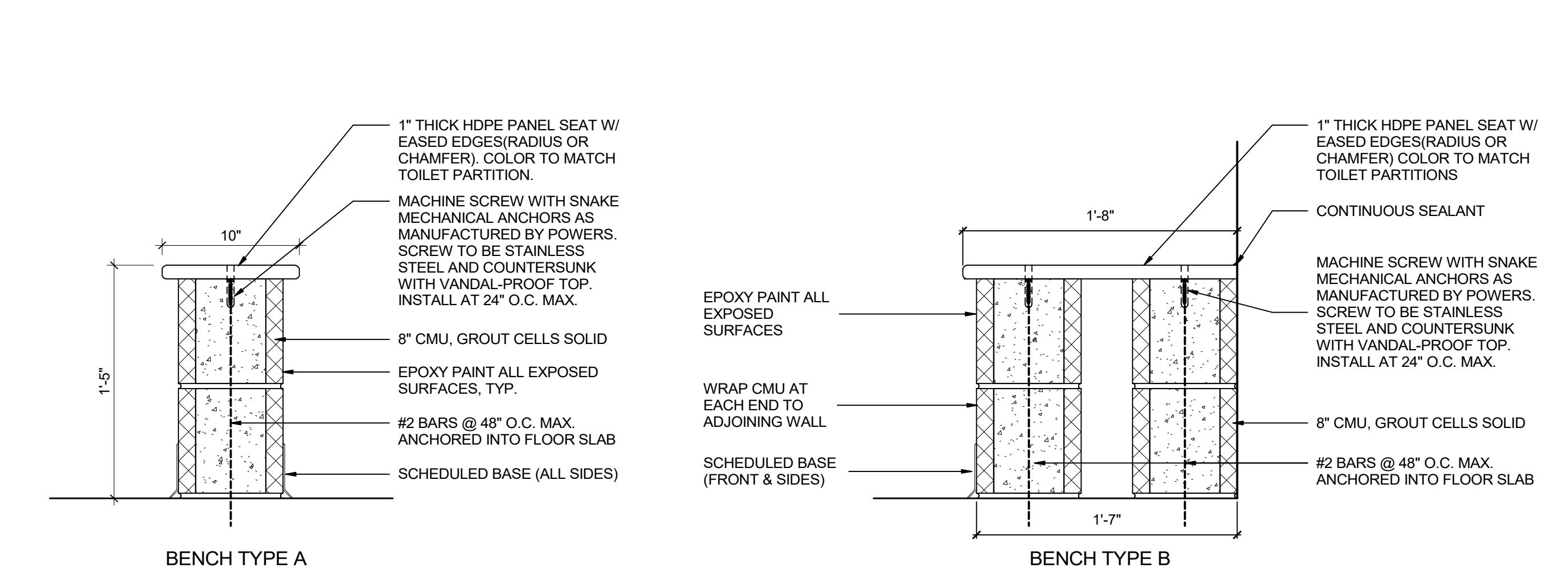
**A2.10D**

01-16-25  
T. ADDENDUM 02  
Revisions / Submission

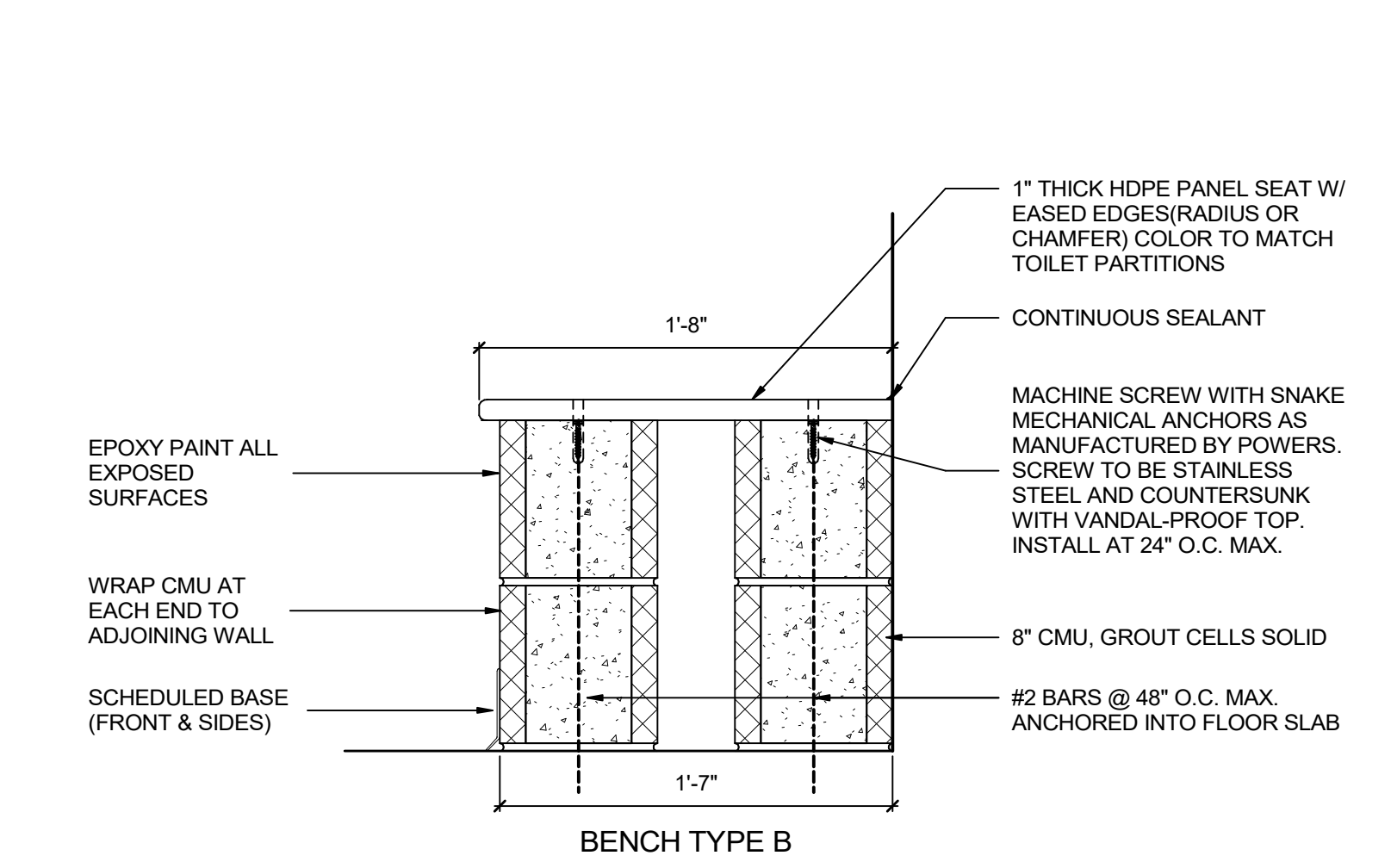




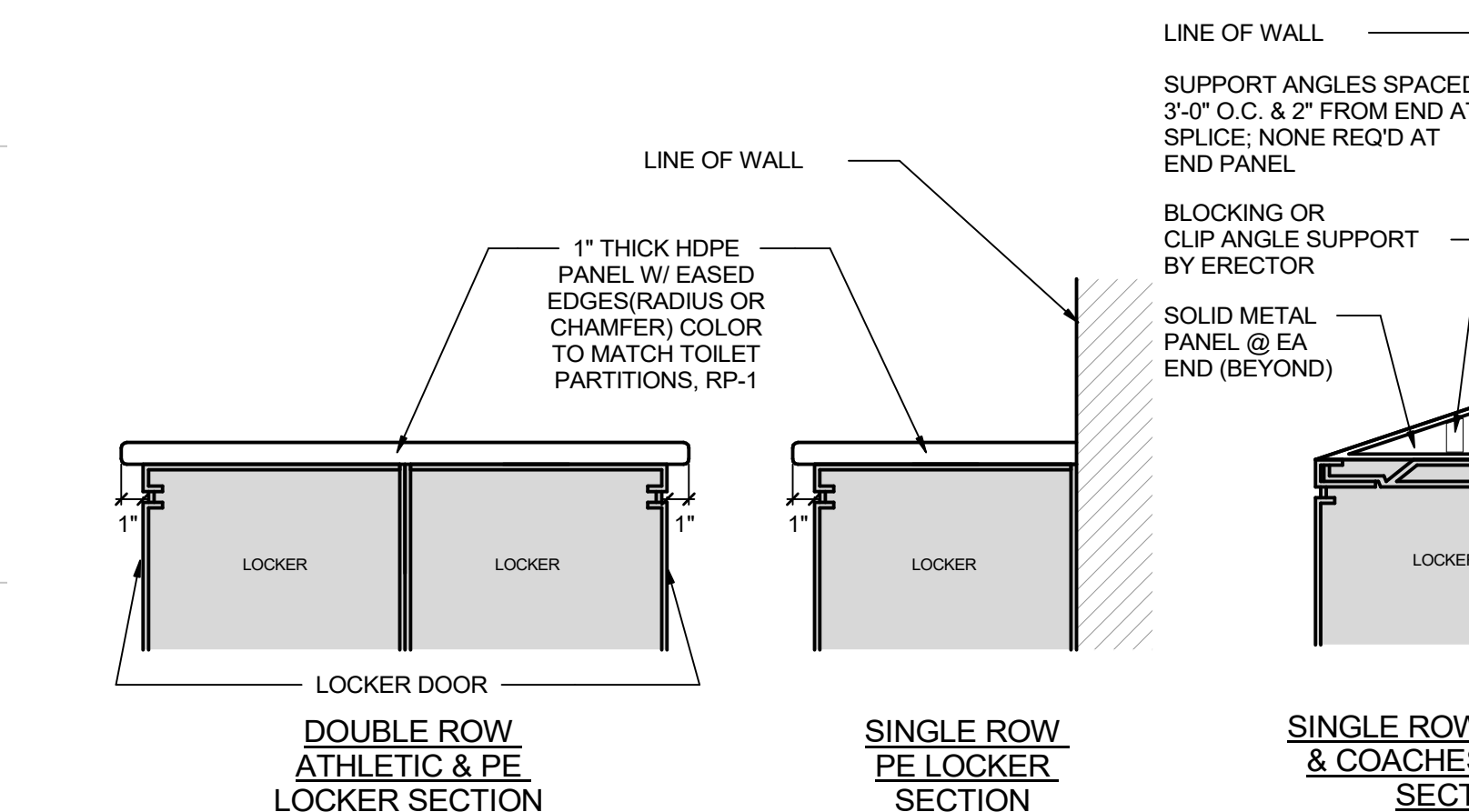
3 LOCKER ELEVATION - FRONT  
1/2" = 1'-0"



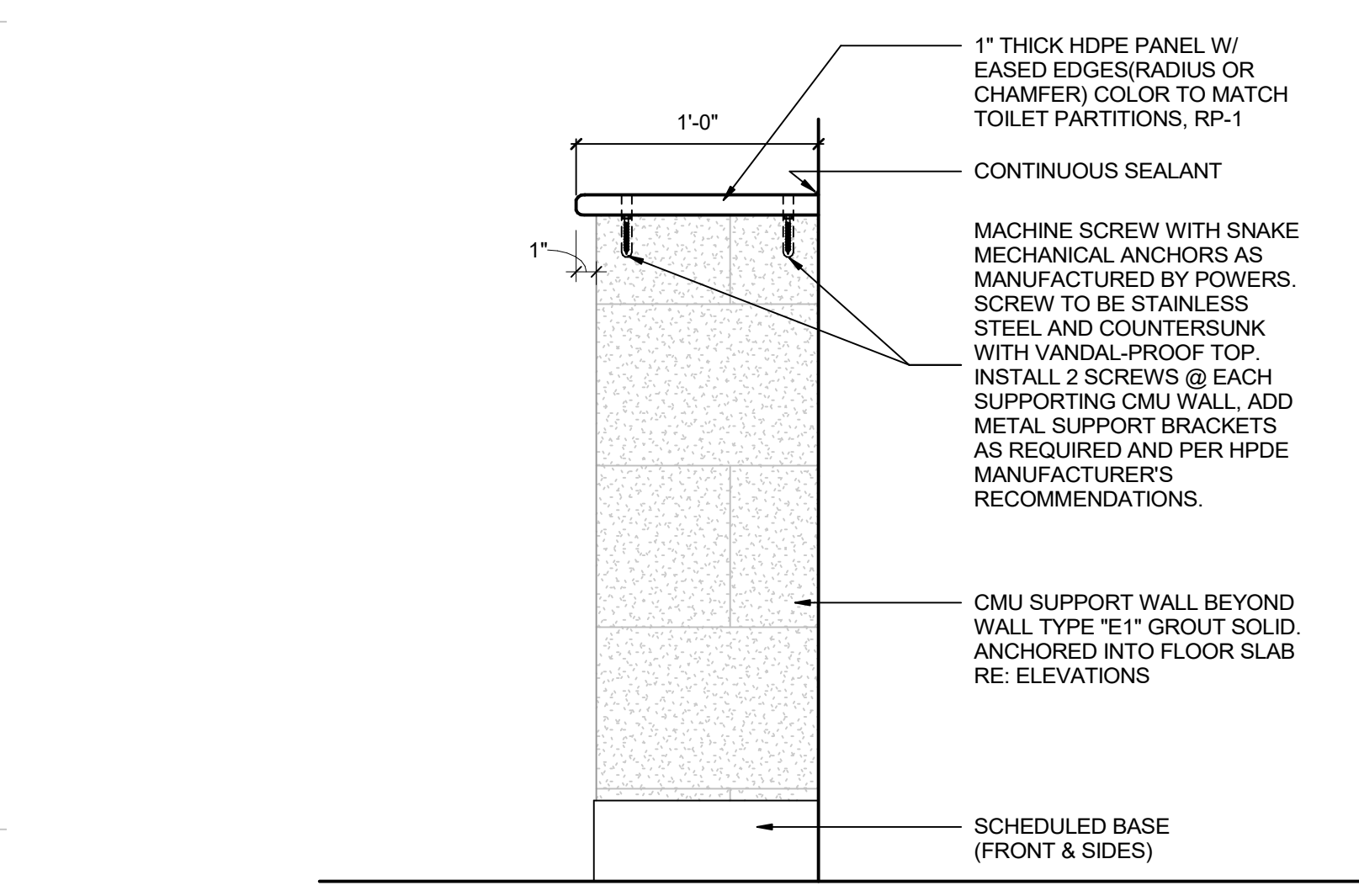
2 LOCKER ROOM BENCH SECTION DETAIL  
1 1/2" = 1'-0"



4 LOCKER BASE - 4" HIGH  
1 1/2" = 1'-0"



5 LOCKER TOP  
1 1/2" = 1'-0"



6 LOCKER ROOM VANITY DETAIL  
1 1/2" = 1'-0"

FLOOR PLAN RENOVATION NOTES

- REFER TO SHEET A2.01 FOR FLOOR PLAN RENOVATION NOTES
- REFER TO SHEET A1.10 FOR SITE PLAN RENOVATION LIMITS AND DETAILS FOR NEW PAVING AROUND BUILDING

KEYNOTES

- AD-03 INSTALL NEW DOOR IN EXISTING FRAME. RE: DOOR SCHEDULE
- AM-60 PATCH/REPAIR AND FINISH SURROUNDING SURFACES TO MATCH EXISTING WHERE EXISTING BLEACHER WAS REMOVED. INSTALL NEW BLEACHERS.
- AM-80 INSTALL NEW BLEACHERS - REFER TO SPECIFICATIONS

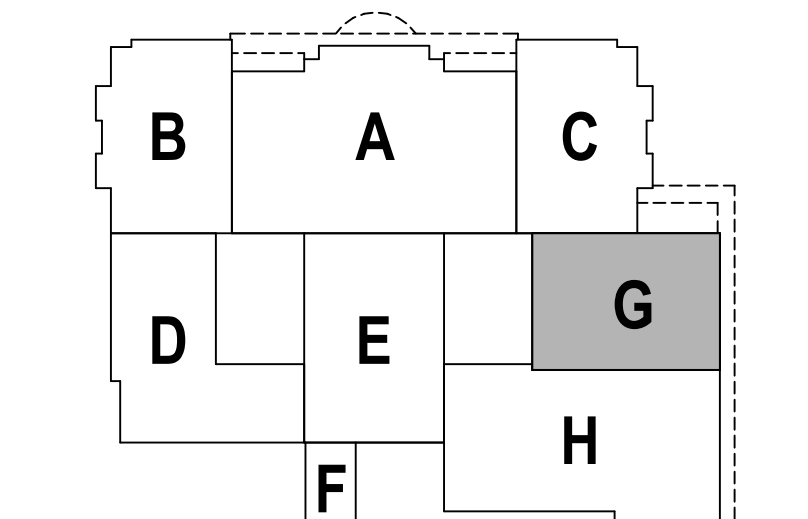
LOCKER ROOM GENERAL NOTES

- REFER TO SERIES SHEETS FOR EXTENT OF LOCKER ROOM DEMOLITION WORK.
- CONSTRUCT CONCRETE CURB BELOW ALL NEW PARTITIONS AROUND RESTROOMS, TOILET ROOMS, SHOWER AREA, SHOWER STALLS AND COACHES LOCKER ROOM. REFER TO A4.20 FOR DETAILS.
- REMOVE ALL FINISHES FROM EXISTING WALLS TO REMAIN. PATCH, REPAIR AND FINISH WALL AS REQUIRED TO RECEIVE NEW FINISHES.
- PROVIDE AND INSTALL LOCKERS AS SHOWN IN PLAN. PROVIDE 4" THICK CONTINUOUS CONCRETE CURB UNDER ALL LOCKERS. ADA LOCKER UNITS ARE SHOWN WITH "H" SYMBOL. REFER TO SPECIFICATIONS.
- REFER TO RESTROOM / TOILET ROOM RENOVATION NOTES.
- PROVIDE AND INSTALL THE FOLLOWING AT EACH SHOWER STALL:
  - SHOWER CURTAIN AND ROD
  - TOWEL HOOKS OUTSIDE OF SHOWER
- REFER TO SHEET G2.01 FOR ADA AND ACCESSORIES MOUNTING HEIGHTS REQUIREMENT. ACCESSIBLE PLUMBING FIXTURES ARE NOTED ON PLAN "ADA".
- REFER TO ELEVATIONS, FINISH PLANS AND FINISH LEGEND.
- REFER TO CEILING PLANS FOR DEMOLITION AND NEW WORK.
- REFER TO MEPT AND STRUCTURAL DRAWINGS FOR DEMOLITION AND NEW WORK.

PLAN LEGEND

SYMBOL	DESCRIPTION
FE	FIRE EXTINGUISHER MOUNTED ON WALL BRACKETS
FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET MOUNTED ON WALL
KB	KNOX BOX LOCATION
MB / TB	MARKER BOARD / TACKBOARD RE: SPECS
(Pattern)	MASONRY WALL
(Pattern)	1 HR FIRE-RATED MASONRY WALL
(Pattern)	2 HR FIRE-RATED MASONRY WALL
A	ALIGN PARTITIONS

KEY PLAN:



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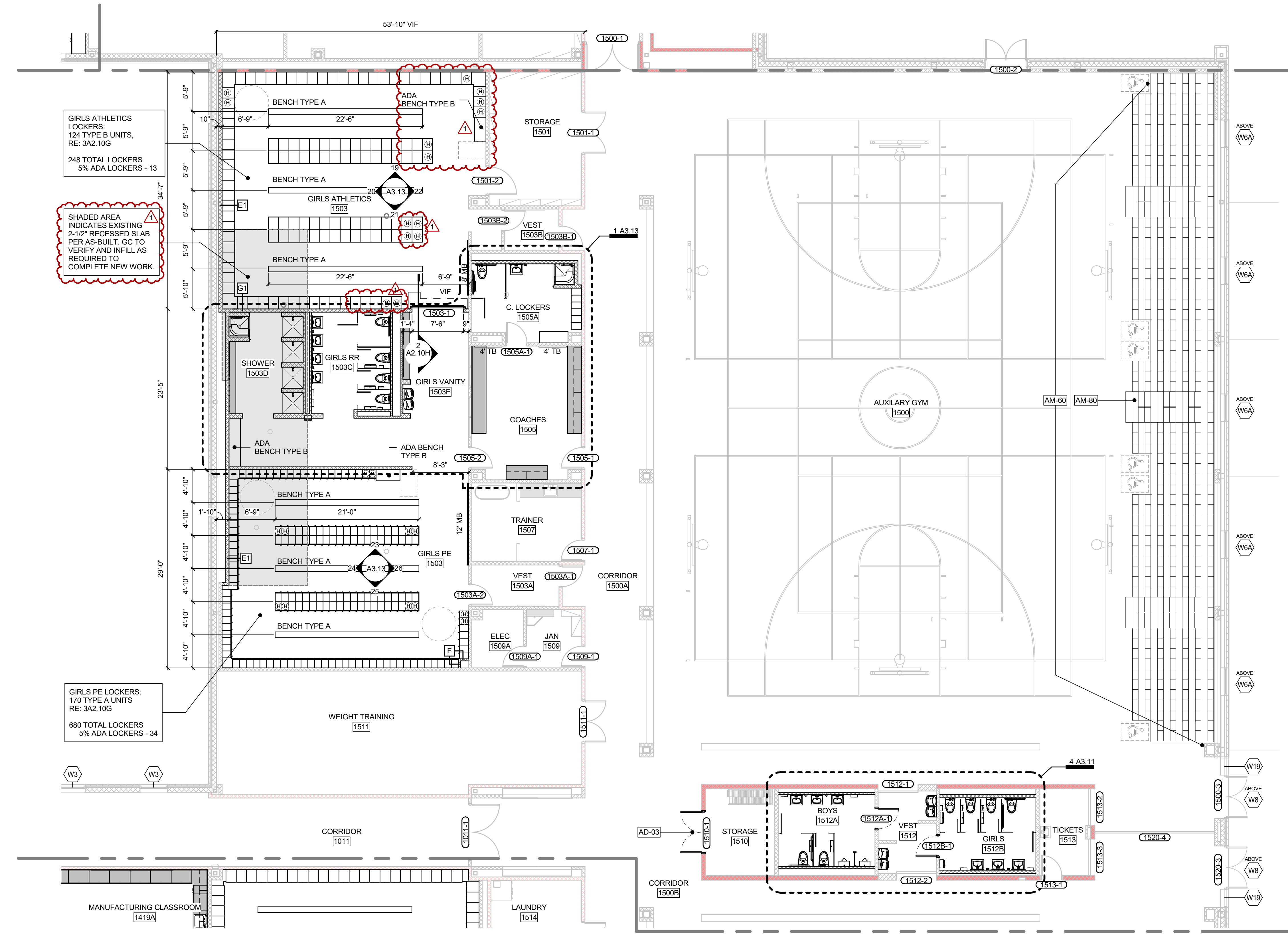
2024 ANTHONY, HOPPER & KAHLA RENOVATIONS  
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CFISD PROJECT NO: 24-02-5750-R-RFP

Revisions / Submission

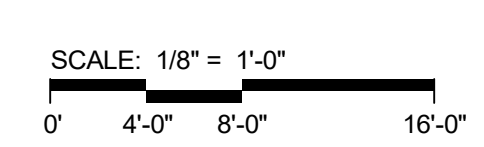
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Project Number: 23072  
Date: 29 DECEMBER 2024  
Drawn by: WHL / KLO

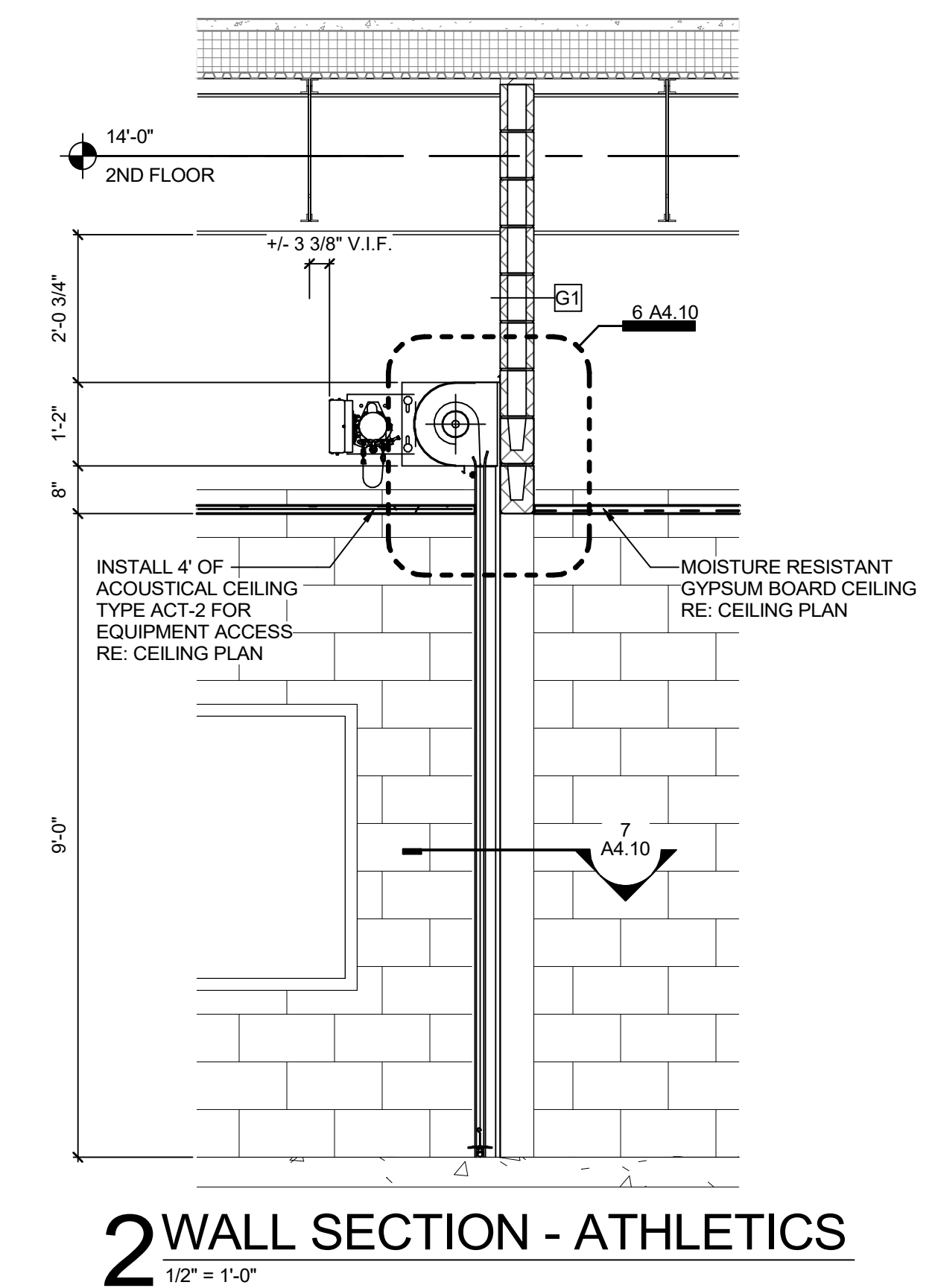
FLOOR PLAN AREA 'G'  
**A2.10G**



1 1ST FLOOR PLAN - AREA 'G'  
1/8" = 1'-0"







- FLOOR PLAN RENOVATION NOTES**
- REFER TO SHEET A2.01 FOR FLOOR PLAN RENOVATION NOTES
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- KEYNOTES**
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  - AM-80 INSTALL NEW BLEACHERS - REFER TO SPECIFICATIONS

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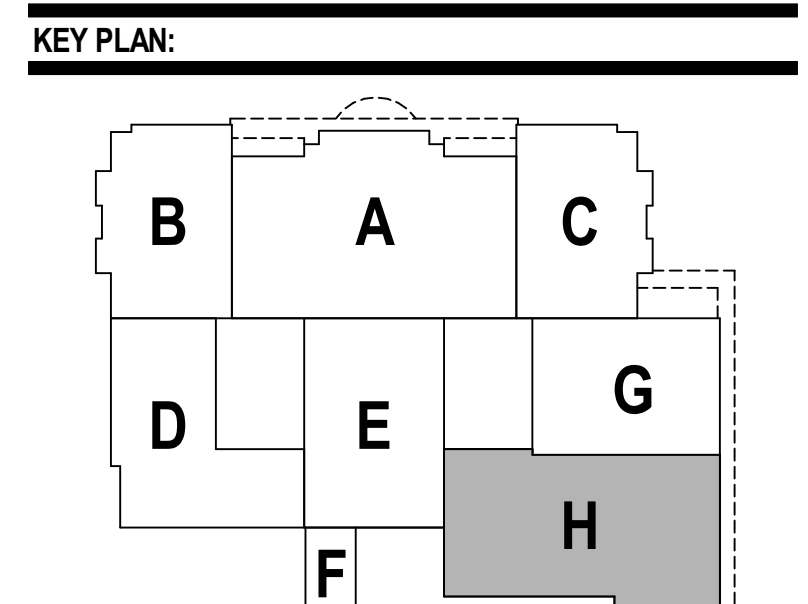
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- LOCKER ROOM GENERAL NOTES**
- REFER TO D SERIES SHEETS FOR EXTENT OF LOCKER ROOM DEMOLITION WORK.
  - CONSTRUCT CONCRETE CURB BELOW ALL NEW PARTITIONS AROUND RESTROOMS, TOILET ROOMS, SHOWER AREA, SHOWER STALLS AND COACHES LOCKER ROOM. REFER TO A4.20 FOR DETAILS.
  - REMOVE ALL FINISHES FROM EXISTING WALLS TO REMAIN. PATCH, REPAIR AND FINISH WALL AS REQUIRED TO RECEIVE NEW FINISHES.
  - PROVIDE AND INSTALL LOCKERS AS SHOWN IN PLAN. PROVIDE 4" CONTINUOUS CONCRETE CURB UNDER ALL LOCKERS. ADA LOCKER UNITS ARE SHOWN WITH "H" SYMBOL. REFER TO SPECIFICATIONS.
  - REFER TO RESTROOM / TOILET ROOM RENOVATION NOTES.
  - PROVIDE AND INSTALL THE FOLLOWING AT EACH SHOWER STALL:  
- SHOWER CURTAIN AND ROD  
- TOWEL HOOKS OUTSIDE OF SHOWER
  - REFER TO SHEET G2.01 FOR ADA AND ACCESSORIES MOUNTING HEIGHTS REQUIREMENT. ACCESSIBLE PLUMBING FIXTURES ARE NOTED ON PLAN "ADA".
  - REFER TO ELEVATIONS, FINISH PLANS AND FINISH LEGEND.
  - REFER TO CEILING PLANS FOR DEMOLITION AND NEW WORK.
  - REFER TO MEPT AND STRUCTURAL DRAWINGS FOR DEMOLITION AND NEW WORK.

**PLAN LEGEND**

SYMBOL	DESCRIPTION
	FIRE EXTINGUISHER MOUNTED ON WALL BRACKETS
	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET MOUNTED ON WALL
	KNOX BOX LOCATION
	MARKER BOARD / TACKBOARD RE: SPECS
	MASONRY WALL
	1 HR FIRE-RATED MASONRY WALL
	2 HR FIRE-RATED MASONRY WALL
	ALIGN PARTITIONS



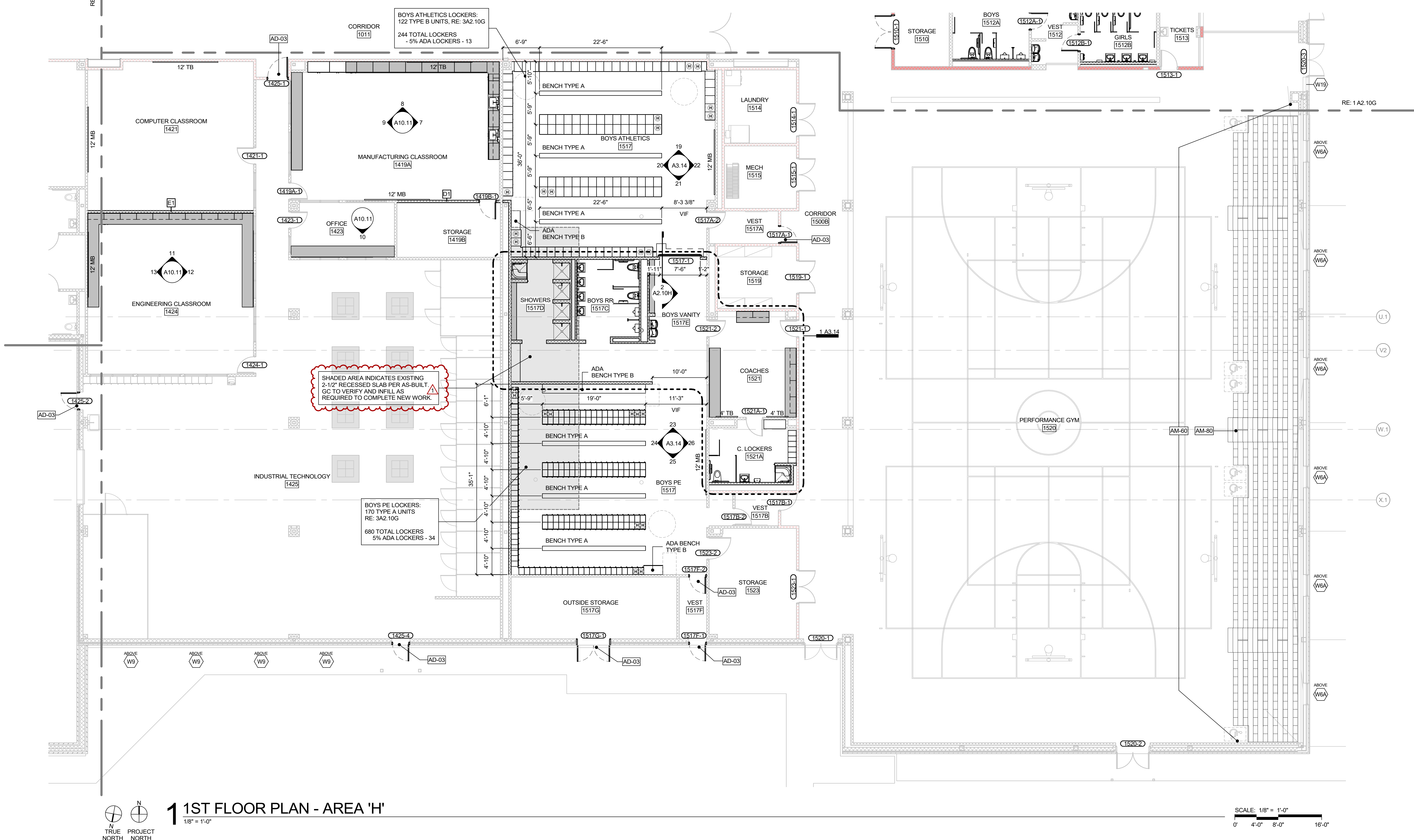
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Drawn by: WHL / KLO

**FLOOR PLAN AREA 'H'**

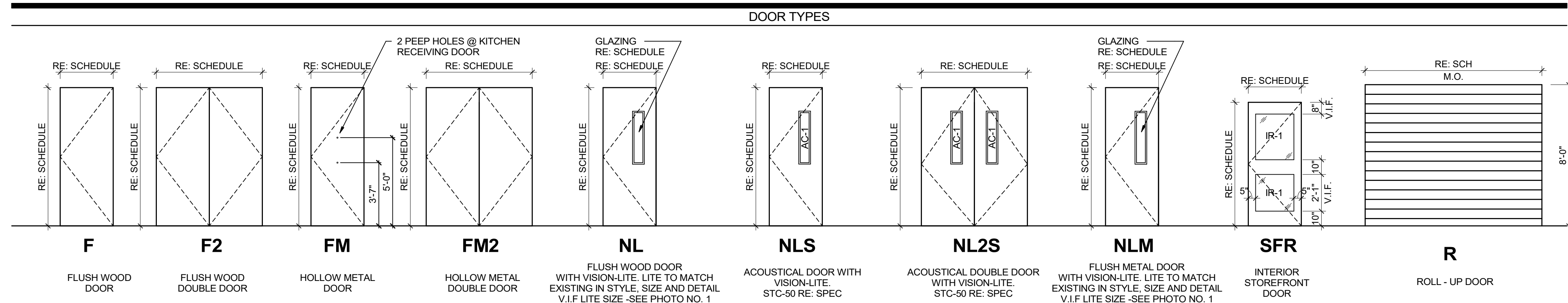
**A2.10H**



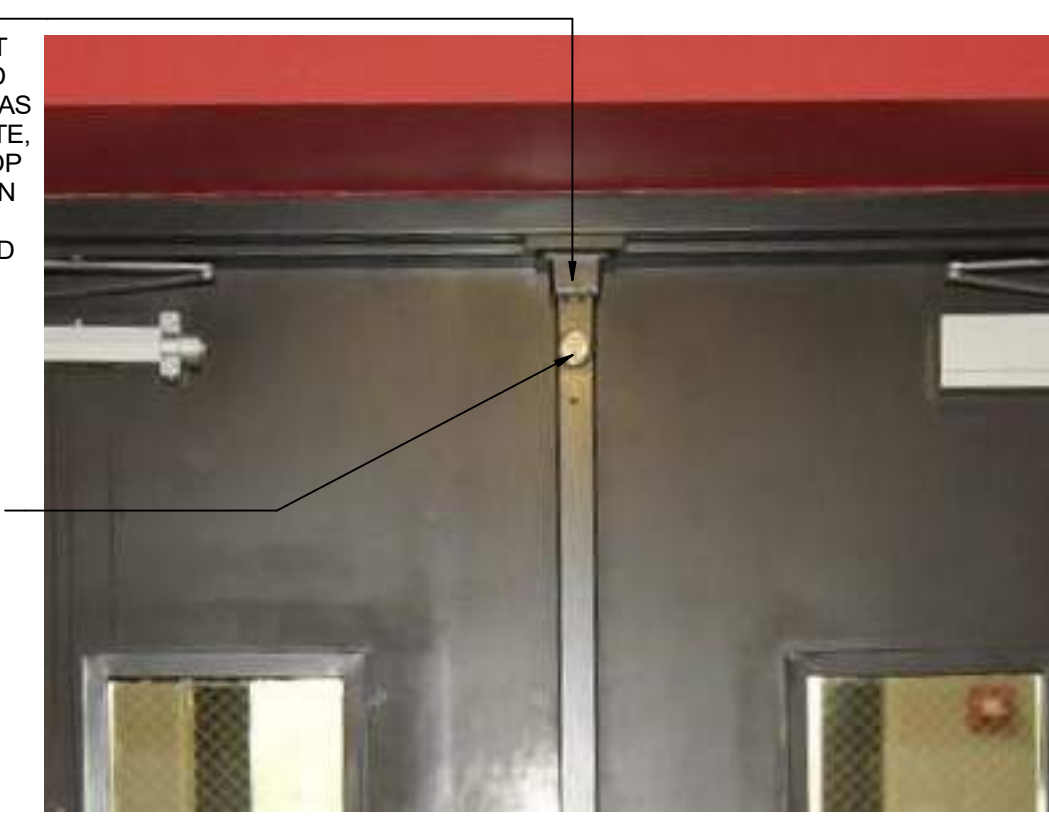
**1ST FLOOR PLAN - AREA 'H'**  
1/8" = 1'-0"

SCALE: 1/8" = 1'-0"  
0 4'-0" 8'-0" 16'-0"





AT STOREFRONT MULLIONS: PROVIDE PROPER STOREFRONT MULLION ASSEMBLY FOR KEYED REMOVABLE MULLION INSTALL. AS AN OPTION, INSTALL ALUM. PLATE, SAME THICKNESS AS DOOR STOP, AT TOP OF REMOVABLE MULLION FOR INSTALLATION. FINISH AND COLOR OF ALUM. PLATE SHOULD MATCH STOREFRONT FRAME.



KEYED REMOVABLE MULLION - REFER TO HARDWARE SPECIFICATION

**11 KEYED REMOVABLE MULLION**  
1 1/2" = 1'-0"

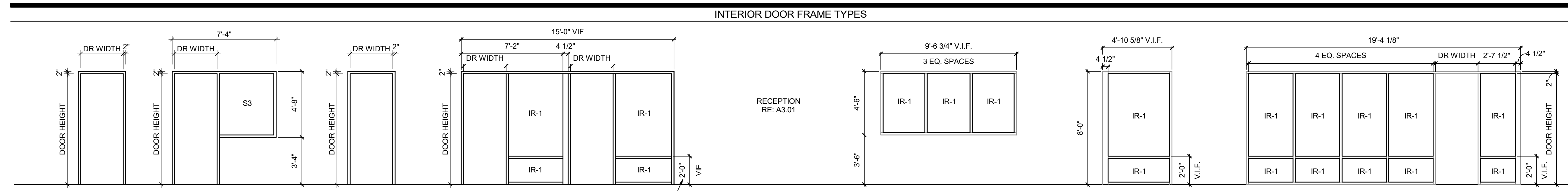
**GLASS TYPE LEGEND**

- IG-1 INSULATED GLASS (EXTERIOR)
- IR-3 INSULATED IMPACT RESISTANT GLASS (EXTERIOR)
- IR-1 9/16" THICK IMPACT RESISTANT GLASS (INTERIOR)
- IR-2 3/8" THICK IMPACT RESISTANT GLASS (INTERIOR)
- FR-1 FIRE-RATED GLASS - 90 MINS
- AC-1 ACOUSTICAL RATED GLASS
- S-3 1/4" TEMPERED GLASS
- E EXISTING GLAZING

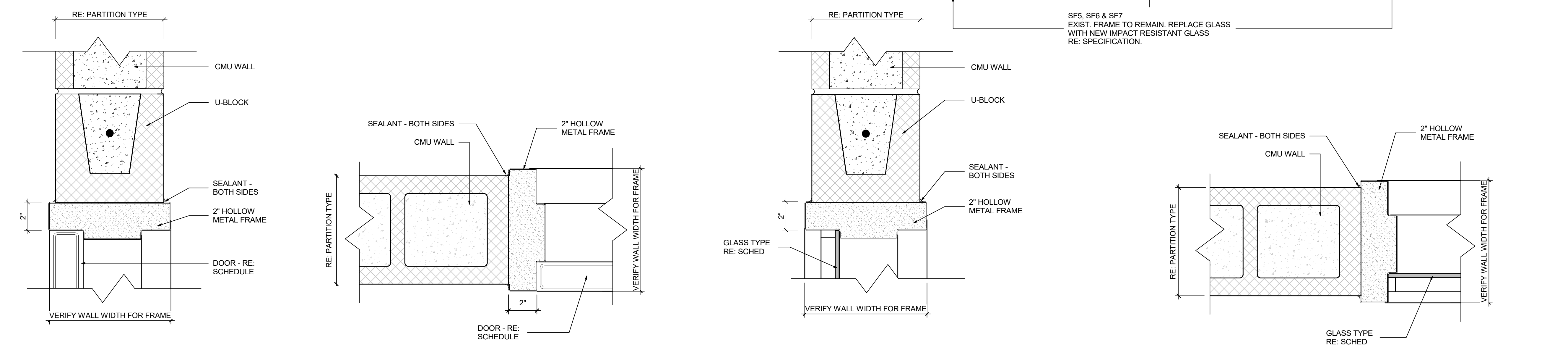
INSTALLATION OF IMPACT RESISTANT GLASS (IR) TYPES SHALL COMPLY WITH GLASS MANUFACTURER'S STANDARDS AND RECOMMENDATIONS. DOW CORNING 995 SILICON STRUCTURAL SEALANT IS REQUIRED.

WHERE IR-F IS NOTED, INSTALL IMPACT RESISTANT FILM OVER EXISTING GLASS PER MANUFACTURER'S STANDARDS AND RECOMMENDATIONS.

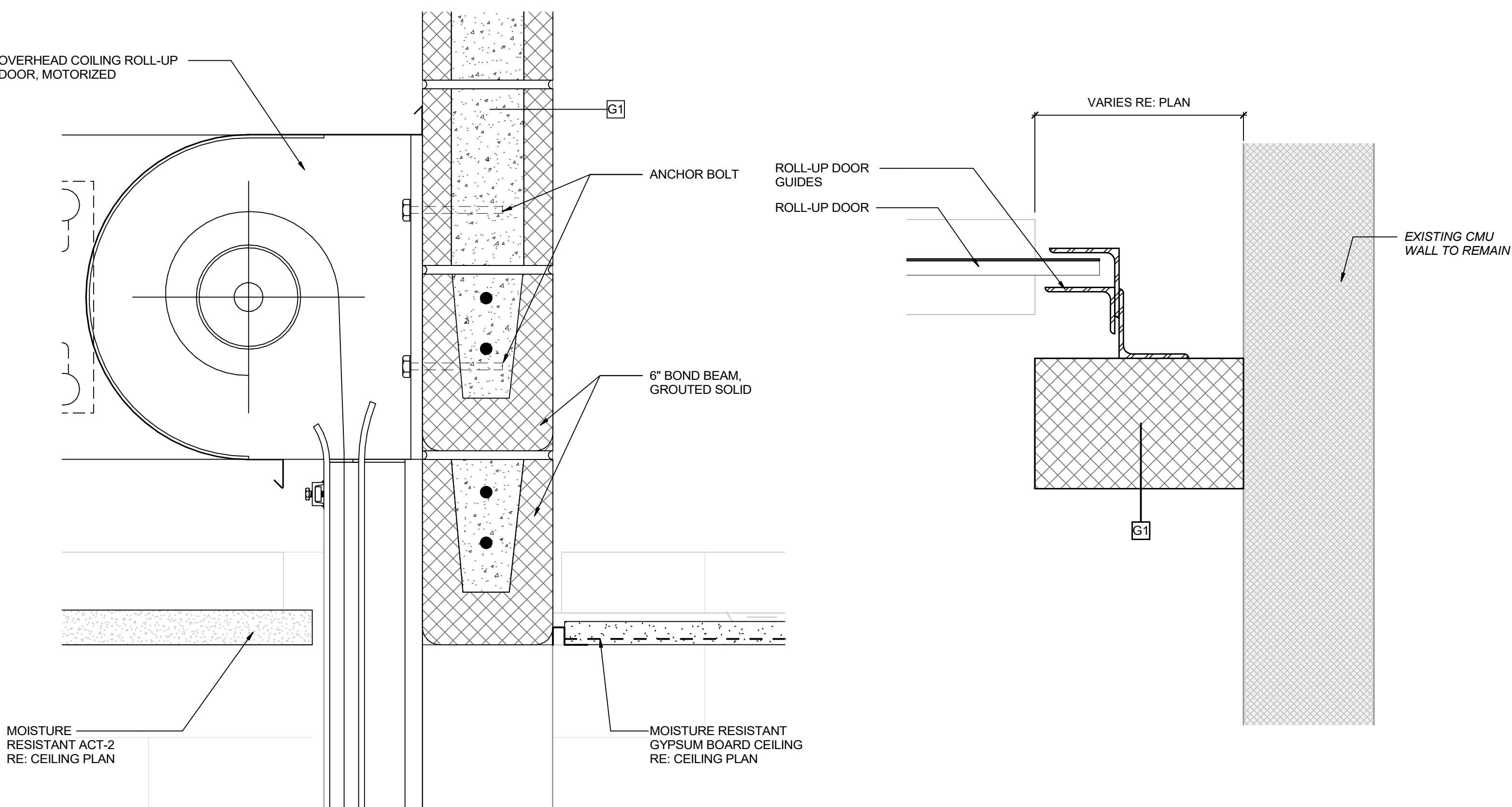
REFER TO SPECIFICATION SECTION 08 80 00



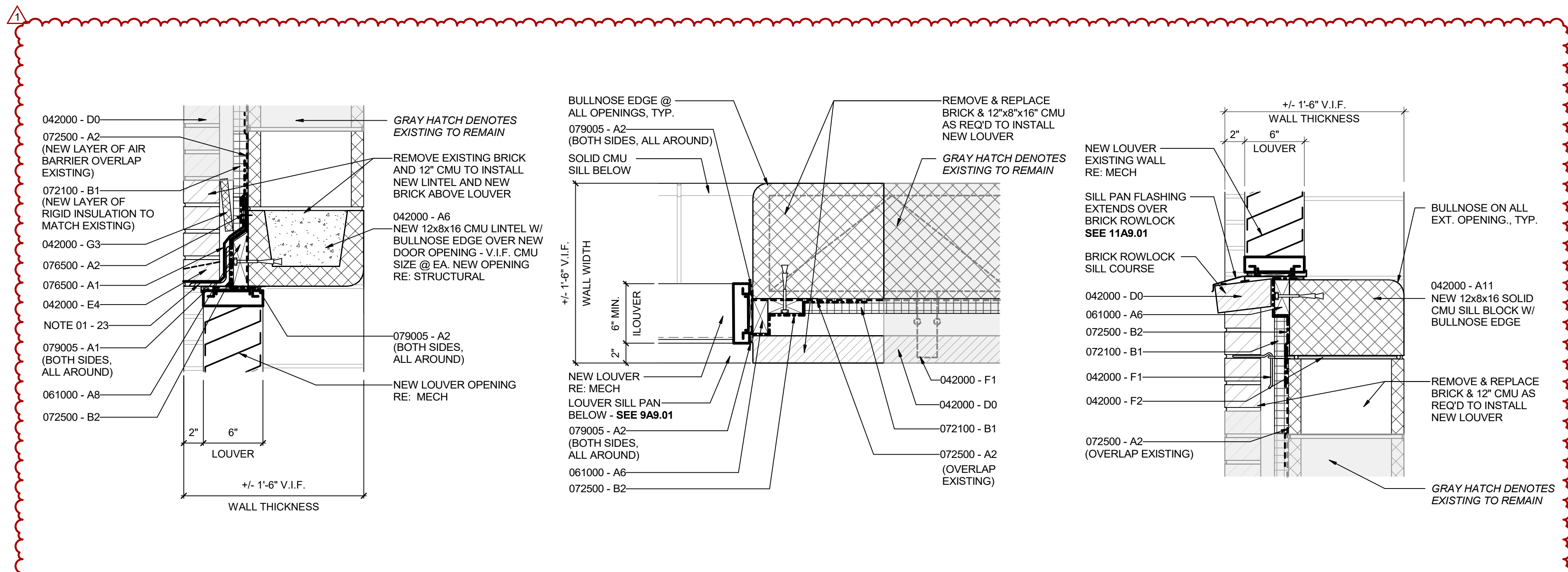
**1 INT. HM DOOR FRAME - HEAD** 3" = 1'-0"  
**2 INT. HM DOOR FRAME - JAMB** 3" = 1'-0"  
**3 INT. HM DOOR FRAME - HEAD @ WINDOW** 3" = 1'-0"  
**4 INT. HM DOOR FRAME - JAMB @ WINDOW** 3" = 1'-0"  
**5 INT. HM DOOR FRAME - SILL @ WINDOW** 3" = 1'-0"



**1 INT. HM DOOR FRAME - HEAD** 3" = 1'-0"  
**2 INT. HM DOOR FRAME - JAMB** 3" = 1'-0"  
**3 INT. HM DOOR FRAME - HEAD @ WINDOW** 3" = 1'-0"  
**4 INT. HM DOOR FRAME - JAMB @ WINDOW** 3" = 1'-0"  
**5 INT. HM DOOR FRAME - SILL @ WINDOW** 3" = 1'-0"



**6 HEAD DETAIL - ATHLETICS ROLL UP DOOR** 3" = 1'-0"  
**7 JAMB DETAIL - ATHLETICS ROLL UP DOOR** 3" = 1'-0"



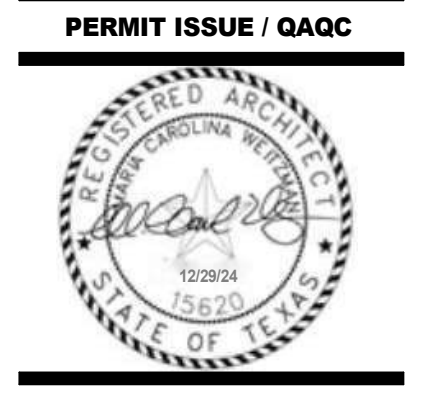
**8 HEAD DETAIL - NEW LOUVER** 1 1/2" = 1'-0"  
**9 JAMB DETAIL - NEW LOUVER** 1 1/2" = 1'-0"  
**10 SILL DETAIL - NEW LOUVER** 1 1/2" = 1'-0"



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**MEPT ENGINEER SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
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 Tel: 281-350-2323

**LANDSCAPE ARCHITECT LANDESGRUP**  
 17041 EL CAMINO REAL  
 SUITE 204  
 HOUSTON, TX 77058  
 Tel: 281-486-4040

**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFISD PROJECT NO: 24-02-5750-R-RFP

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: WHL / KLO

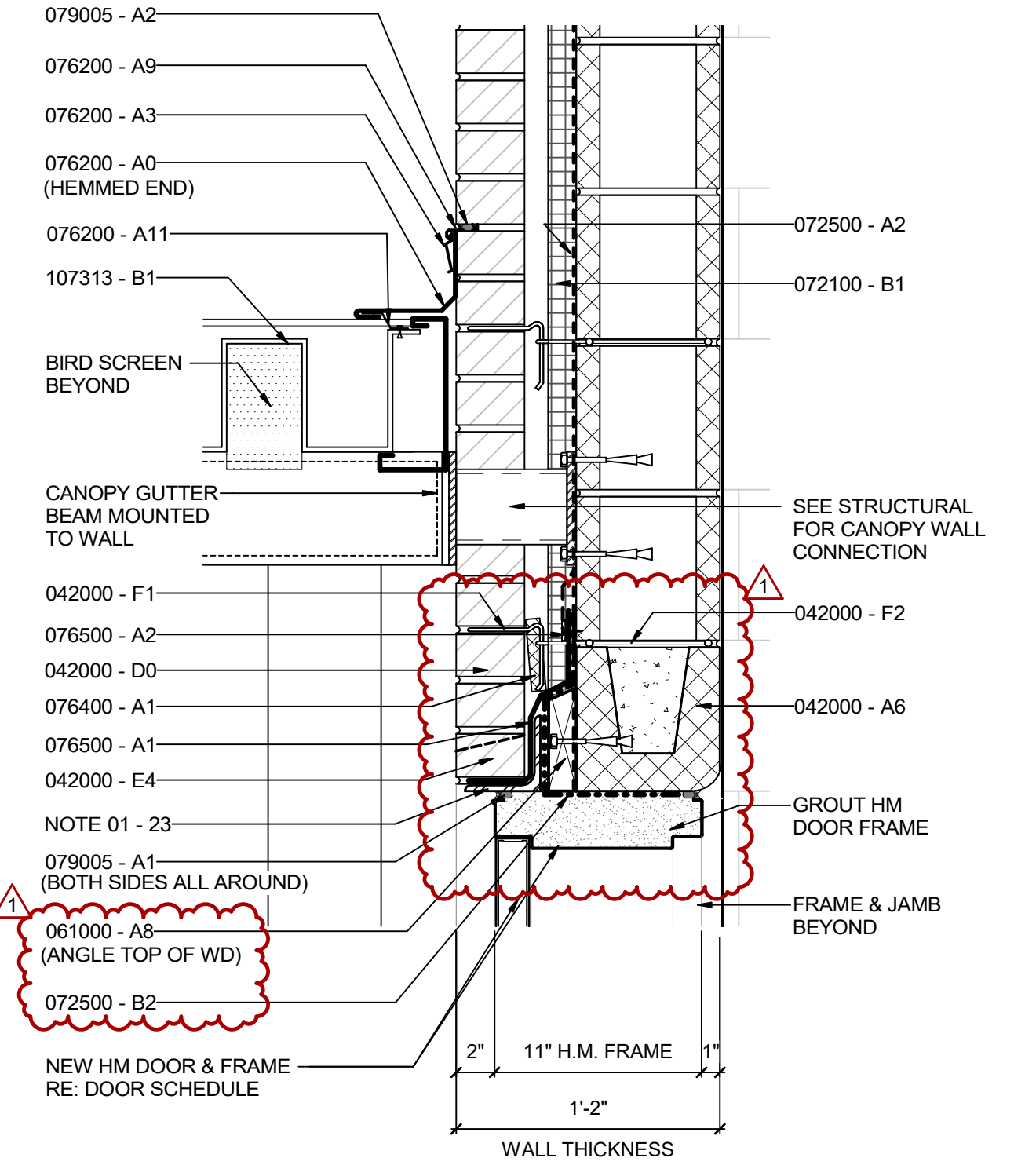
REVISIONS

NO.	DATE	DESCRIPTION
1	01-16-25	ADDENDUM 02

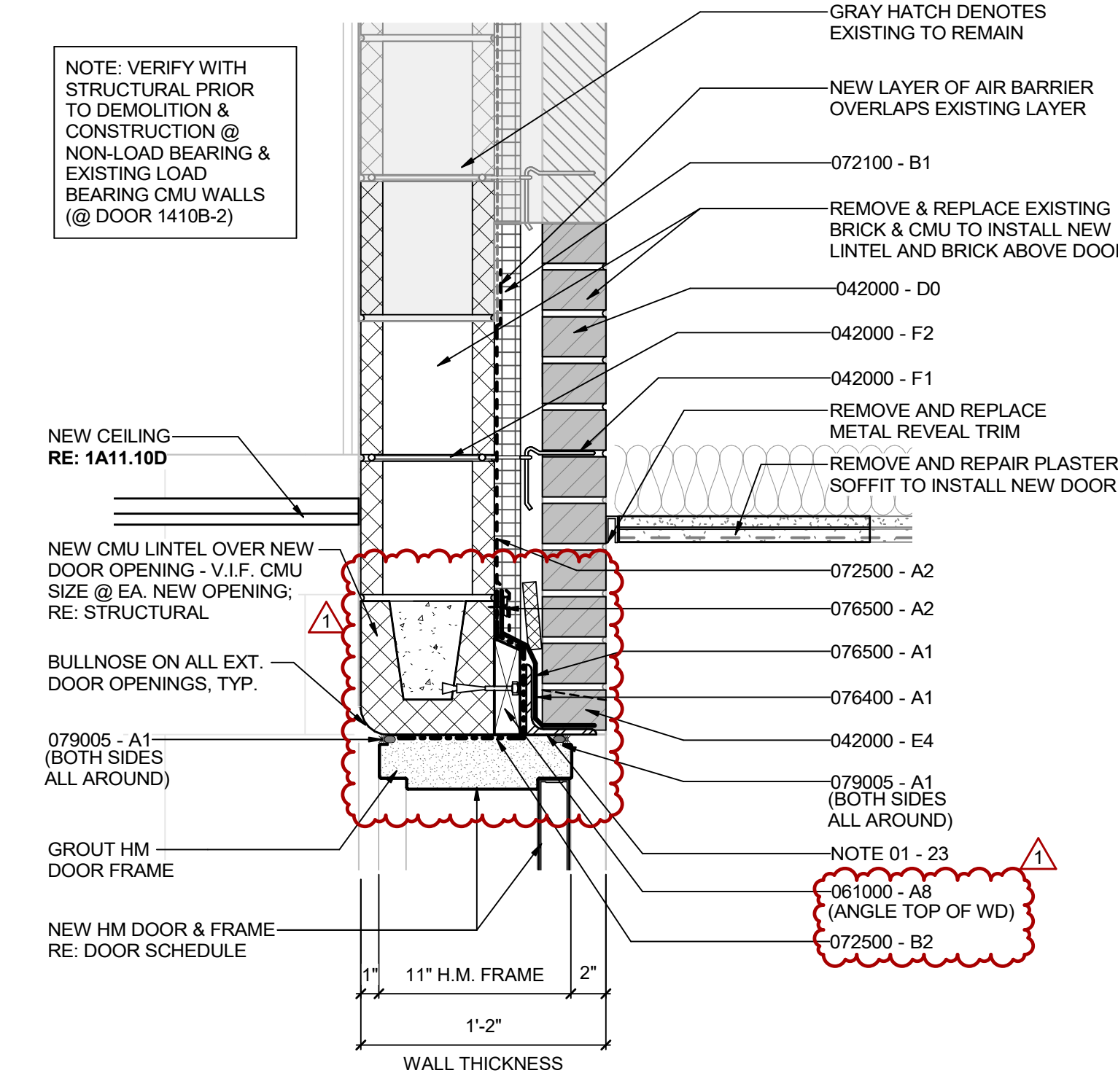
Revision / Submission

**INTERIOR OPENING TYPES & DETAILS**  
**A4.10**

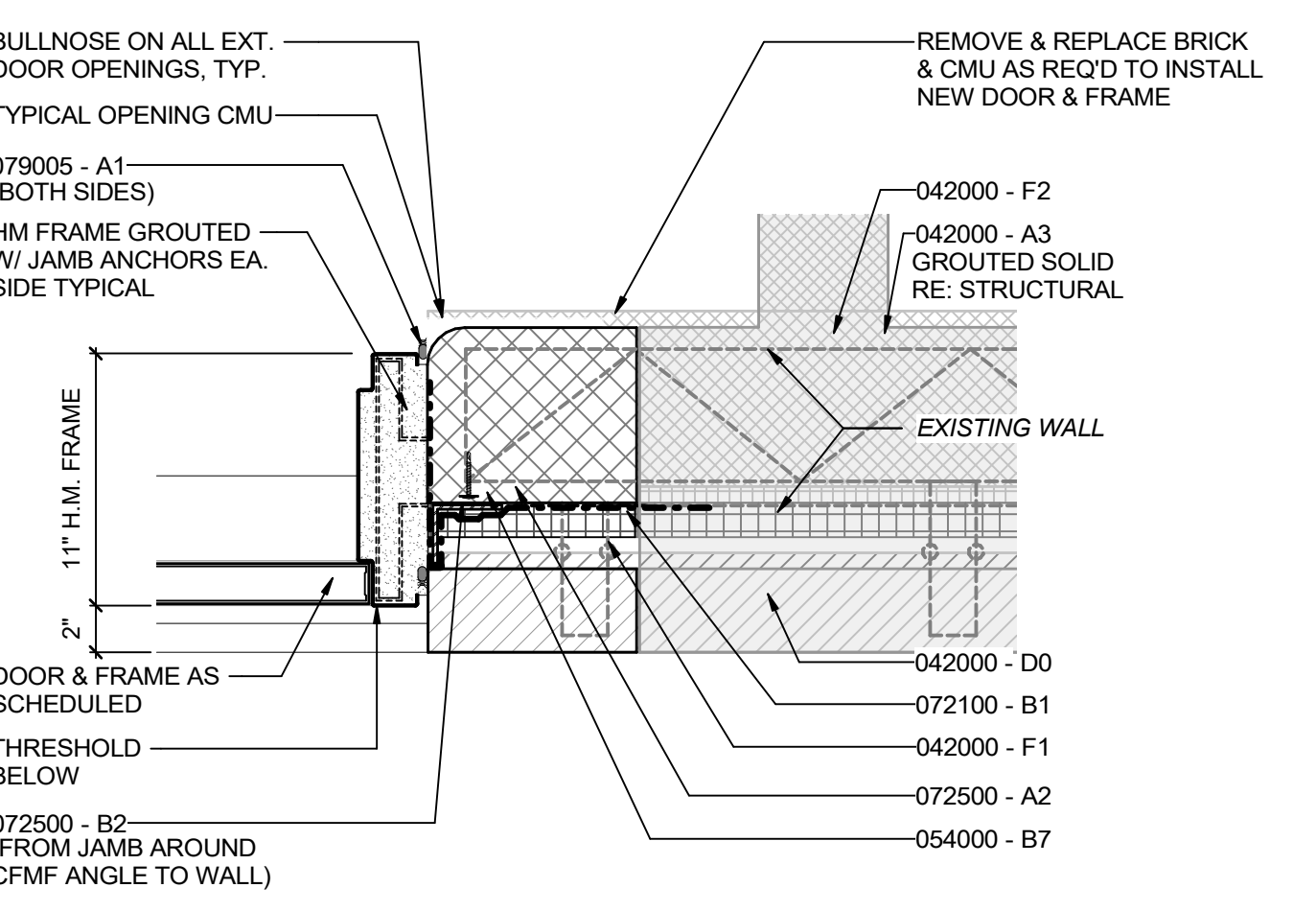




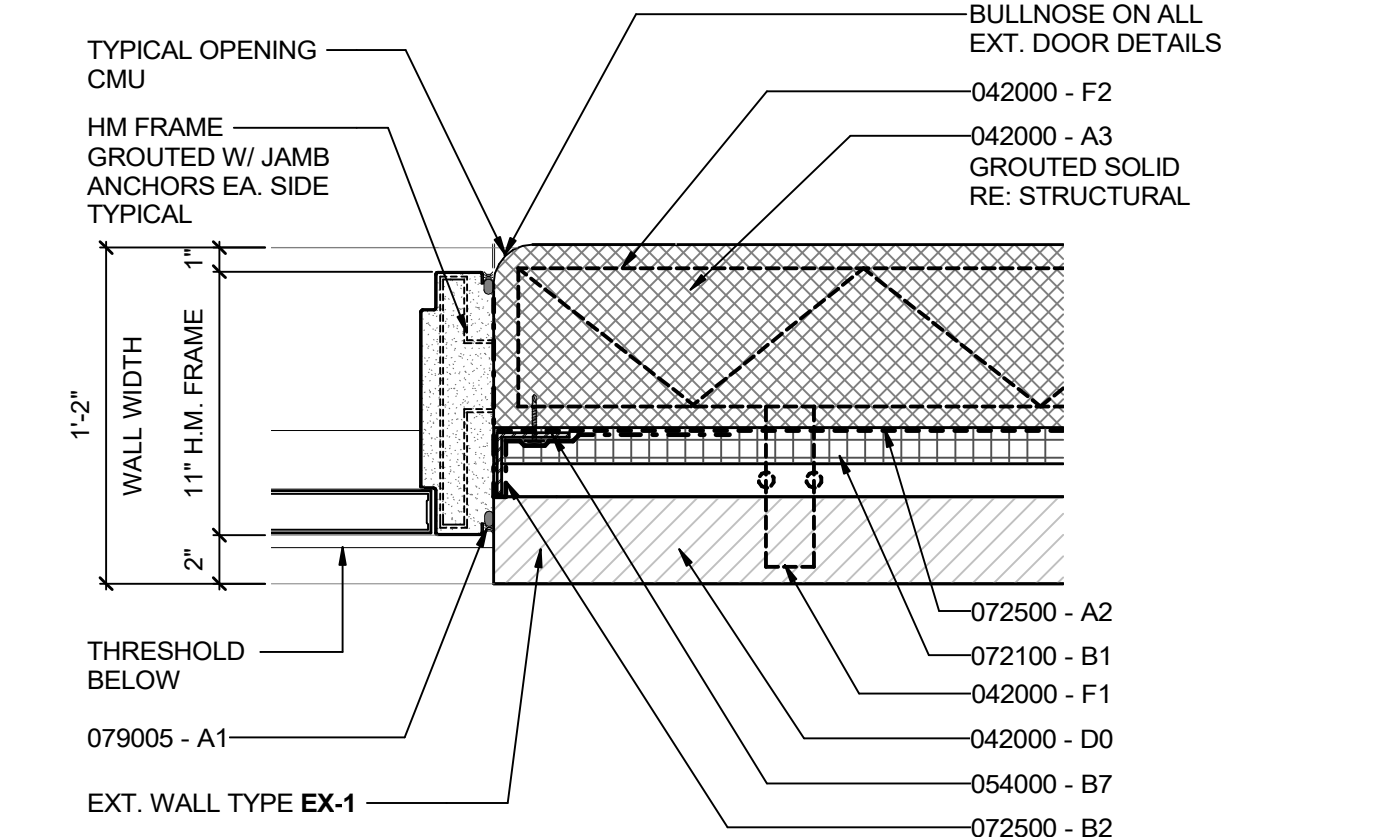
2 HEAD DETAIL - FINE ARTS ADDITION  
1 1/2" = 1'-0"



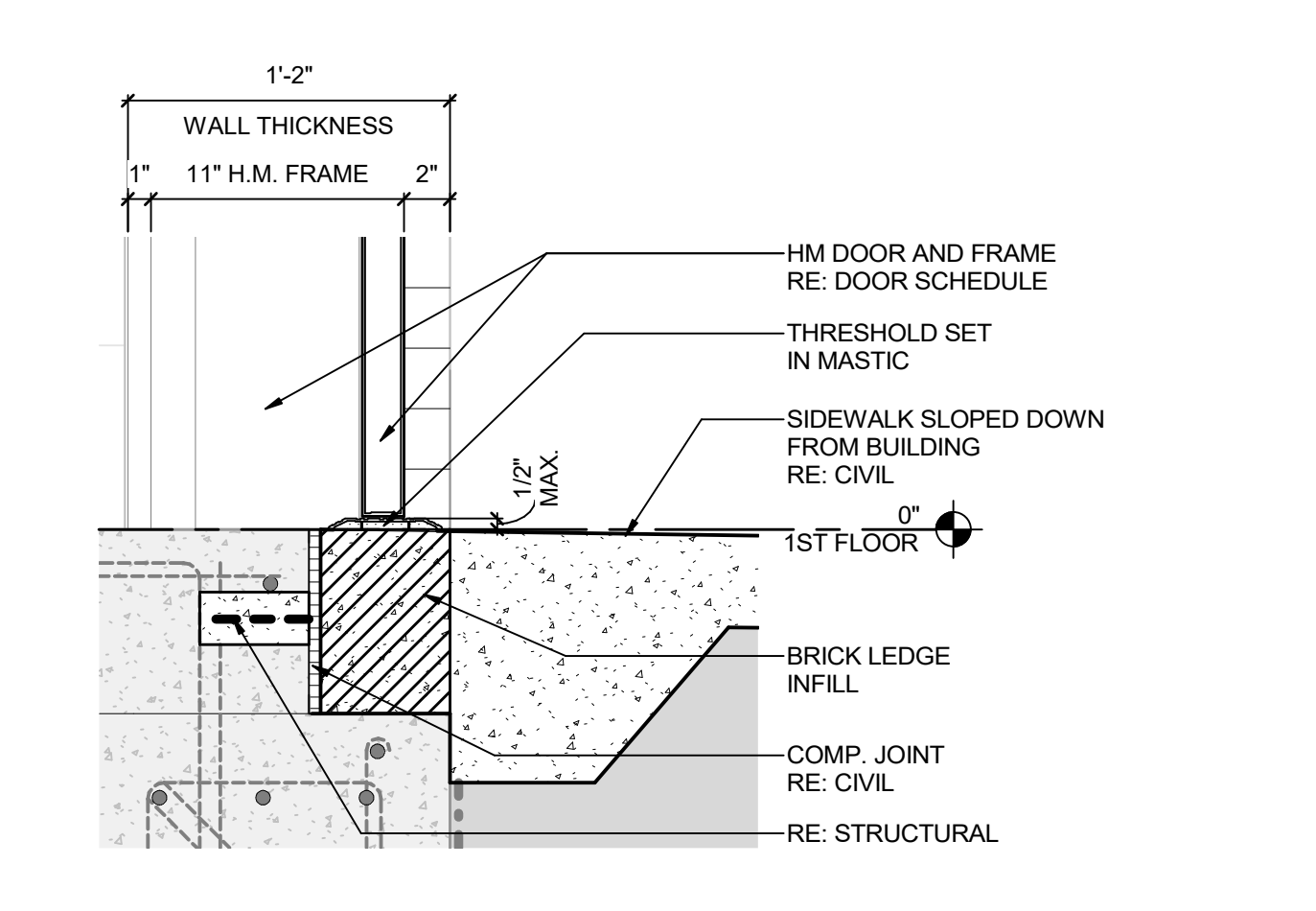
3 HEAD DETAIL - EXISTING WALL @ KILN  
1 1/2" = 1'-0"



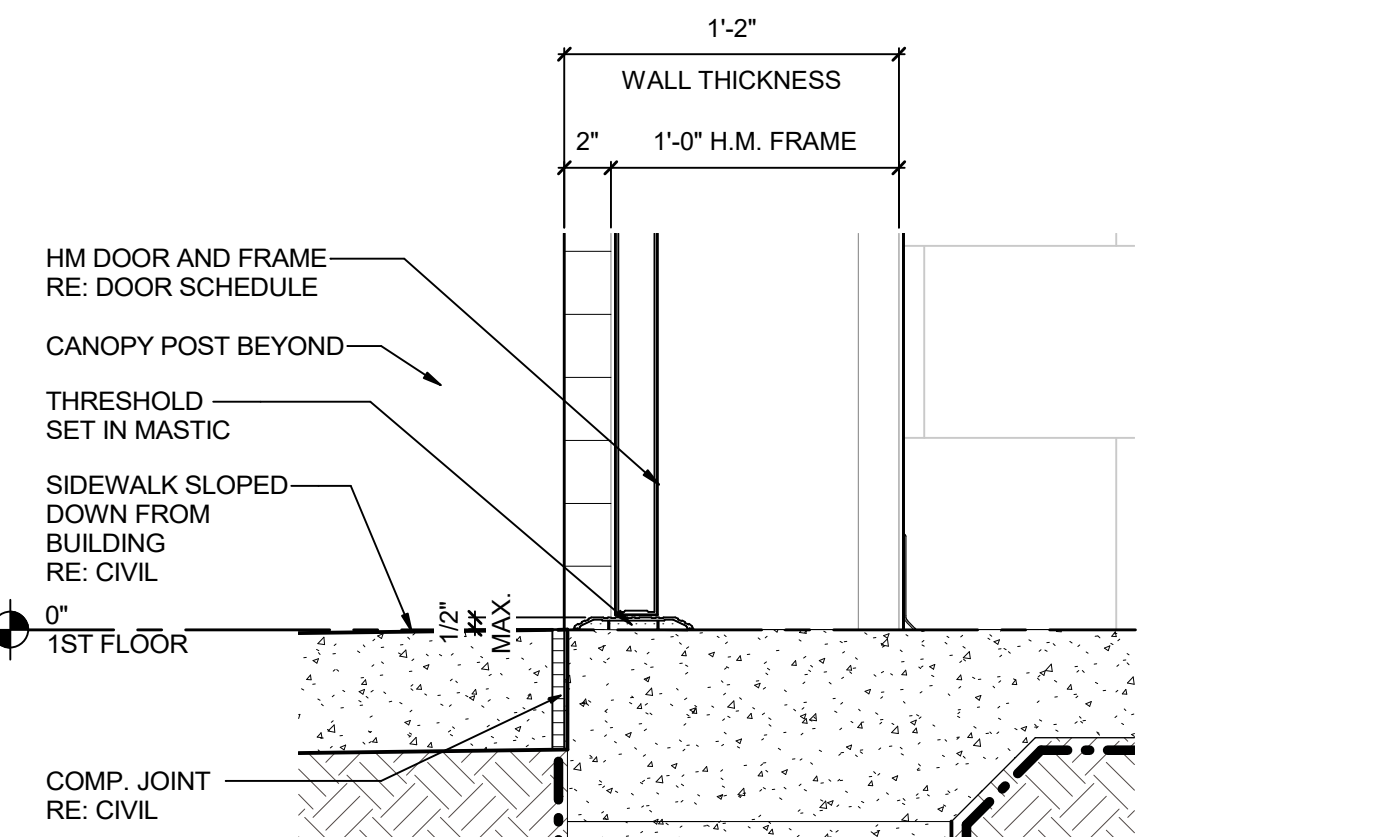
4 JAMB DETAIL - KILN DOOR  
1 1/2" = 1'-0"



6 JAMB DETAIL - FINE ARTS ADDITION  
1 1/2" = 1'-0"



5 SILL DETAIL - KILN DOOR  
1 1/2" = 1'-0"



7 SILL DETAIL - FINE ARTS ADDITION  
1 1/2" = 1'-0"

**GLASS TYPE LEGEND**

- IG-3 INSULATED GLASS (EXTERIOR)
- IR-3 INSULATED IMPACT RESISTANT GLASS (EXTERIOR)
- IR-4 9/16" THICK IMPACT RESISTANT GLASS (INTERIOR)
- IR-2 3/8" THICK IMPACT RESISTANT GLASS (INTERIOR)
- FR-1 FIRE-RATED GLASS - 90 MINS
- AC-1 ACOUSTICAL RATED GLASS
- S-3 1/4" TEMPERED GLASS
- E EXISTING GLAZING

INSTALLATION OF IMPACT RESISTANT GLASS (IR) TYPES SHALL COMPLY WITH GLASS MANUFACTURERS STANDARDS AND RECOMMENDATIONS. DOWN CORNERING 995 SILICON STRUCTURAL SEALANT IS REQUIRED.

WHERE IR-F IS NOTED, INSTALL IMPACT RESISTANT FILM OVER EXISTING GLASS PER MANUFACTURER'S STANDARDS AND RECOMMENDATIONS.

REFER TO SPECIFICATION SECTION 08 80 00

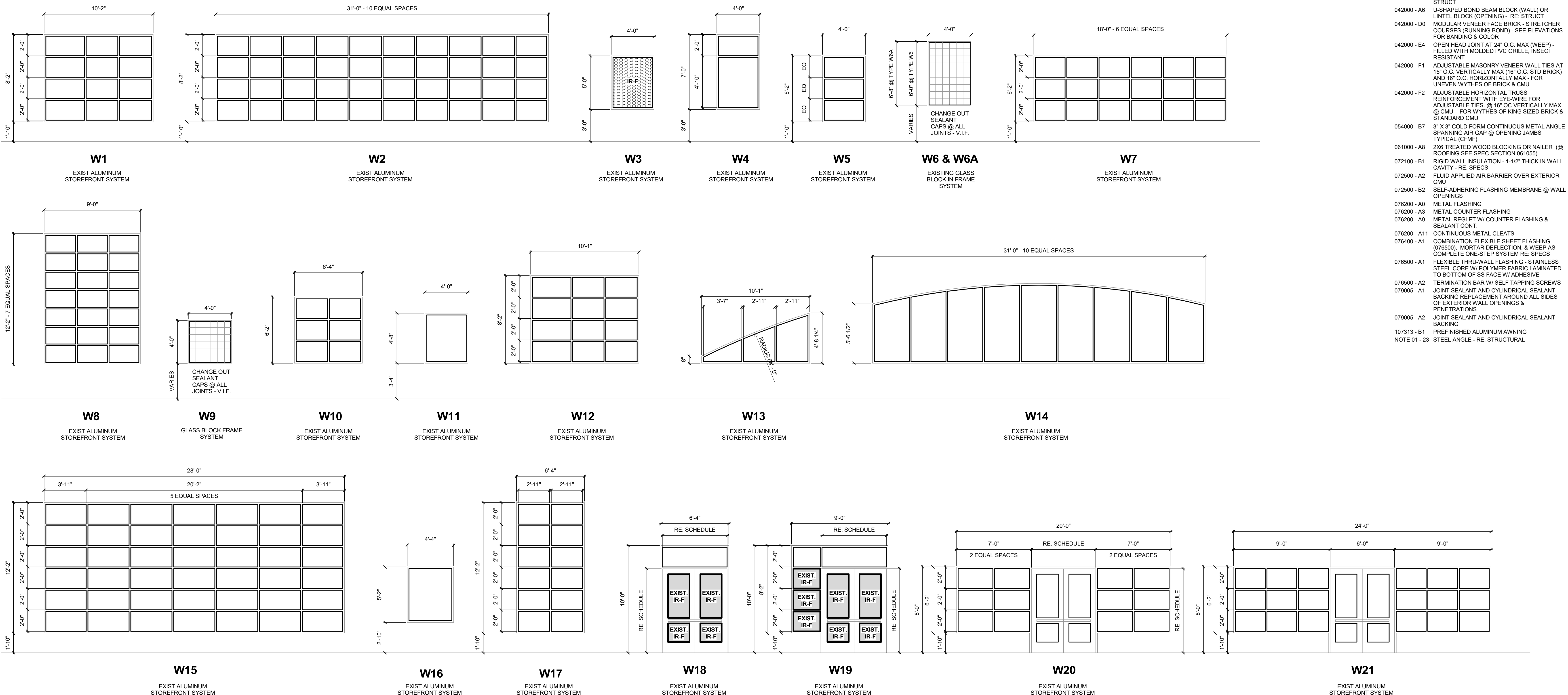
- WINDOW NOTES**
- WINDOW TYPES SHOWN IS FOR INFORMATION ONLY. CONTRACTOR SHALL VERIFY ALL WINDOW TYPES AND SIZE.
  - REFER TO FLOOR PLANS FOR WINDOW LOCATIONS
  - REPLACE GASKETS / SEALANTS FOR ALL EXISTING EXTERIOR WINDOWS WHETHER SPECIFIED OR NOT. REFER TO SPECIFICATIONS
  - INSTALL IMPACT RESISTANT FILM (IR-F) WHERE SHOWN. RE: SPECIFICATION SECTION 088700
  - WHERE EXISTING IR-F IS NOTED, GC TO COORDINATE GASKET REPLACEMENT WITH IRF MANUFACTURER FOR REPAIR. REPAIR REQUIRED TO ENSURE WARRANTY IS INTACT.

**WINDOW SCHEDULE LEGEND**

- NEW GASKETS AROUND EACH GLASS PANE IN WINDOW SYSTEM
- IRF FILM ON EXISTING GLAZING
- EXISTING GLASS BLOCK - VERIFY IN FIELD THE REPLACEMENT OF SEALANT CAPS @ GROUT JOINTS

**MATERIAL KEYNOTES**

- 042000 - A3 U-SHAPED BOND BEAM BLOCK (WALL) OR LINTEL BLOCK (OPENING) - RE: STRUCT
- 042000 - A6 MODULAR VENEER FACE BRICK - STRETCHER COURSES (RUNNING BOND) - SEE ELEVATIONS FOR BANDING & COLOR
- 042000 - E4 OPEN HEAD JOINT AT 24" O.C. MAX (WEEP) - FILLED WITH MOLDED PVC GRILLE, INSECT RESISTANT
- 042000 - F1 ADJUSTABLE MASONRY VENEER WALL TIES AT 15" O.C. VERTICALLY MAX (16" O.C. STD BRICK) AND 16" O.C. HORIZONTALLY MAX - FOR UNEVEN WYTHES OF BRICK & CMU
- 042000 - F2 ADJUSTABLE HORIZONTAL TRUSS REINFORCEMENT WITH EYE-WIRE FOR ADJUSTABLE TIES @ 16" O.C. VERTICALLY MAX @ CMU - FOR WYTHES OF KING SIZED BRICK & STANDARD CMU
- 054000 - B7 3" x 3" COLD FORM CONTINUOUS METAL ANGLE SPANNING AIR GAP @ OPENING JAMBS TYPICAL (CFMF)
- 061000 - A8 2X8 TREATED WOOD BLOCKING OR NAILER @ ROOFING SEE SPEC SECTION 061055
- 072100 - B1 RIGID WALL INSULATION - 1-1/2" THICK IN WALL CAVITY - RE: SPECS
- 072500 - A2 FLUID APPLIED AIR BARRIER OVER EXTERIOR CMU
- 072500 - B2 SELF-ADHERING FLASHING MEMBRANE @ WALL OPENINGS
- 076200 - A0 METAL FLASHING
- 076200 - A3 METAL COUNTER FLASHING
- 076200 - A9 METAL REGLET W/ COUNTER FLASHING & SEALANT CONT.
- 076200 - A11 CONTINUOUS METAL CLEATS
- 076400 - A1 COMBINATION FLEXIBLE SHEET FLASHING (076500), MORTAR DEFLECTION & WEEP AS COMPLETE ONE-STEP SYSTEM RE: SPECS
- 076500 - A1 FLEXIBLE THRU-WALL FLASHING - STAINLESS STEEL CORE W/ POLYMER FABRIC LAMINATED TO BOTTOM OF SS FACE W/ ADHESIVE
- 076500 - A2 TERMINATION BAR W/ SELF TAPPING SCREWS
- 079005 - A1 JOINT SEALANT AND CYLINDRICAL SEALANT BACKING REPLACEMENT AROUND ALL SIDES OF EXTERIOR WALL OPENINGS & PENETRATIONS
- 079005 - A2 JOINT SEALANT AND CYLINDRICAL SEALANT BACKING
- 107313 - B1 PREFINISHED ALUMINUM AWNING
- NOTE 01 - 23 STEEL ANGLE - RE: STRUCTURAL



1 EXT. WINDOW TYPES  
1/4" = 1'-0"

**NATEX CORPORATION ARCHITECTS**  
447 Heights Boulevard  
Houston, TX 77007  
Phone: 713-975-9525  
Fax: 713-780-7824

**Coleman Partners ARCHITECTS**  
3701 Kirby Drive, Suite 830  
Houston, TX 77098  
Tel: 832-947-1038 Fax: 281-235-214-5395

**PERMIT ISSUE / QA/C**

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21020 PARK ROW  
KATY, TX 77449  
Tel: 281-578-9595

**STRUCTURAL ENGINEER DALLY + ASSOCIATES, INC.**  
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SUITE 400  
HOUSTON, TX 77042  
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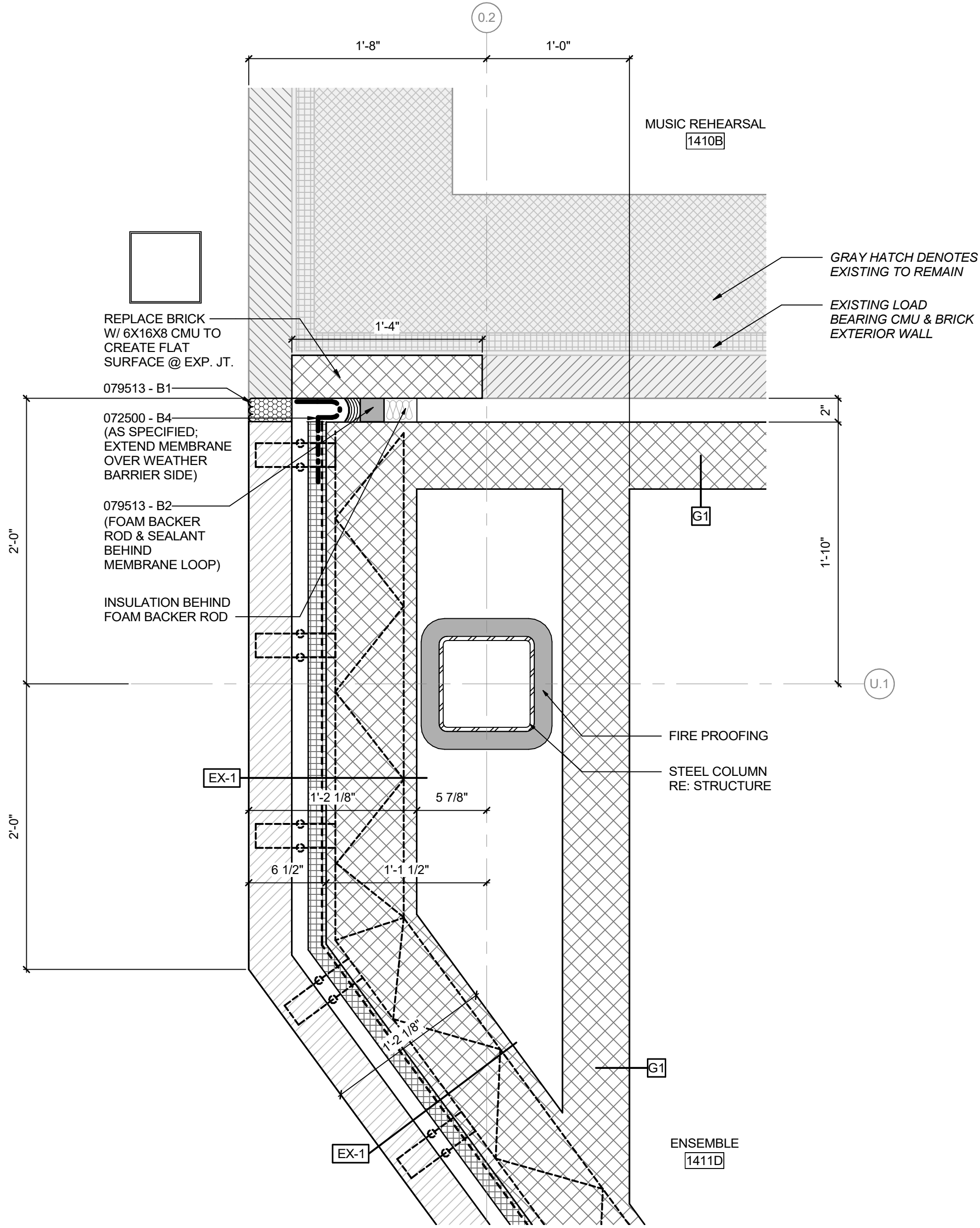
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17041 EL CAMINO REAL  
SUITE 204  
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**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
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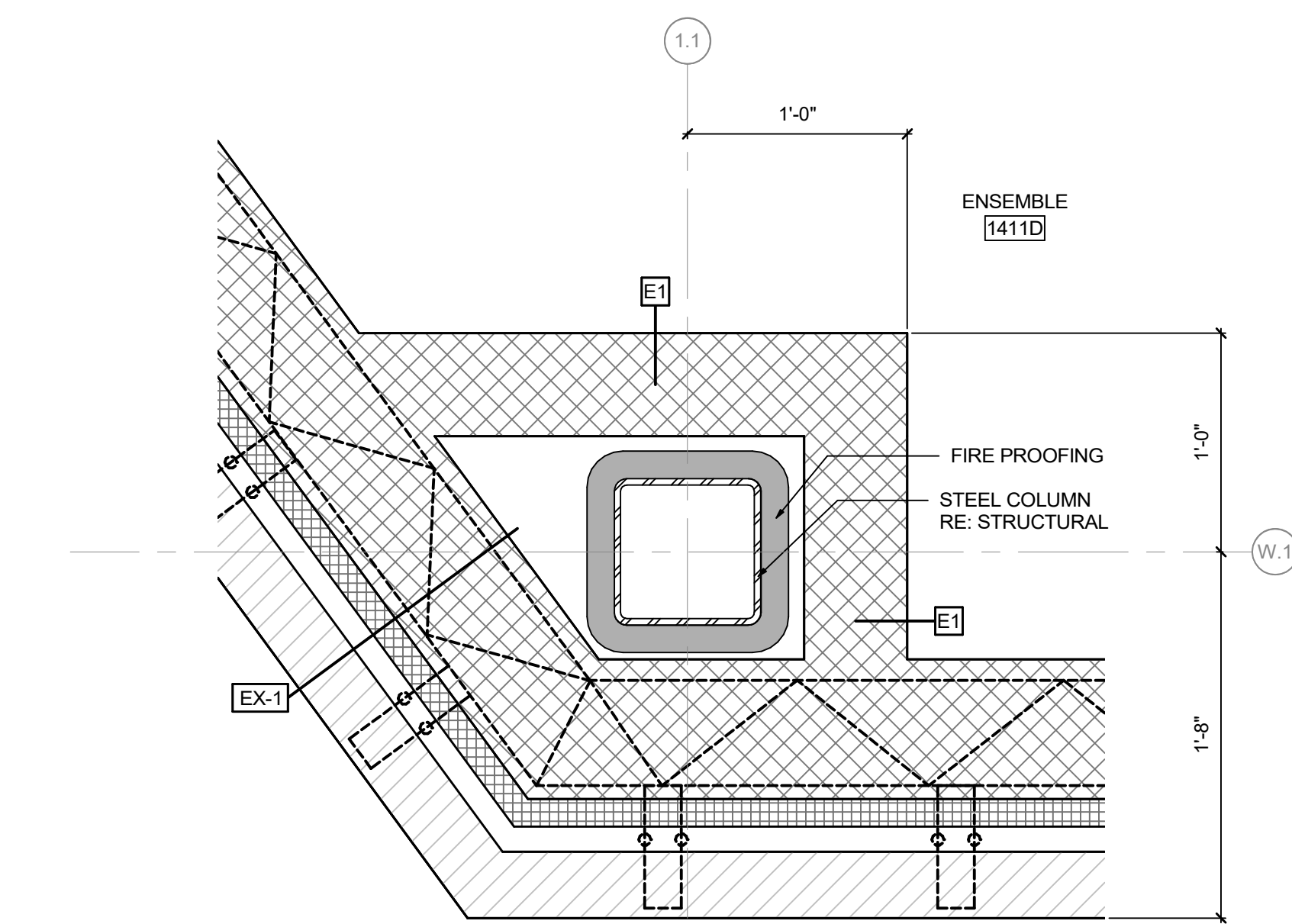
Project Number: 23072  
Date: 29 DECEMBER 2024  
Drawn by: WHL / KLO

**EXTERIOR OPENING TYPES**  
**A5.00**

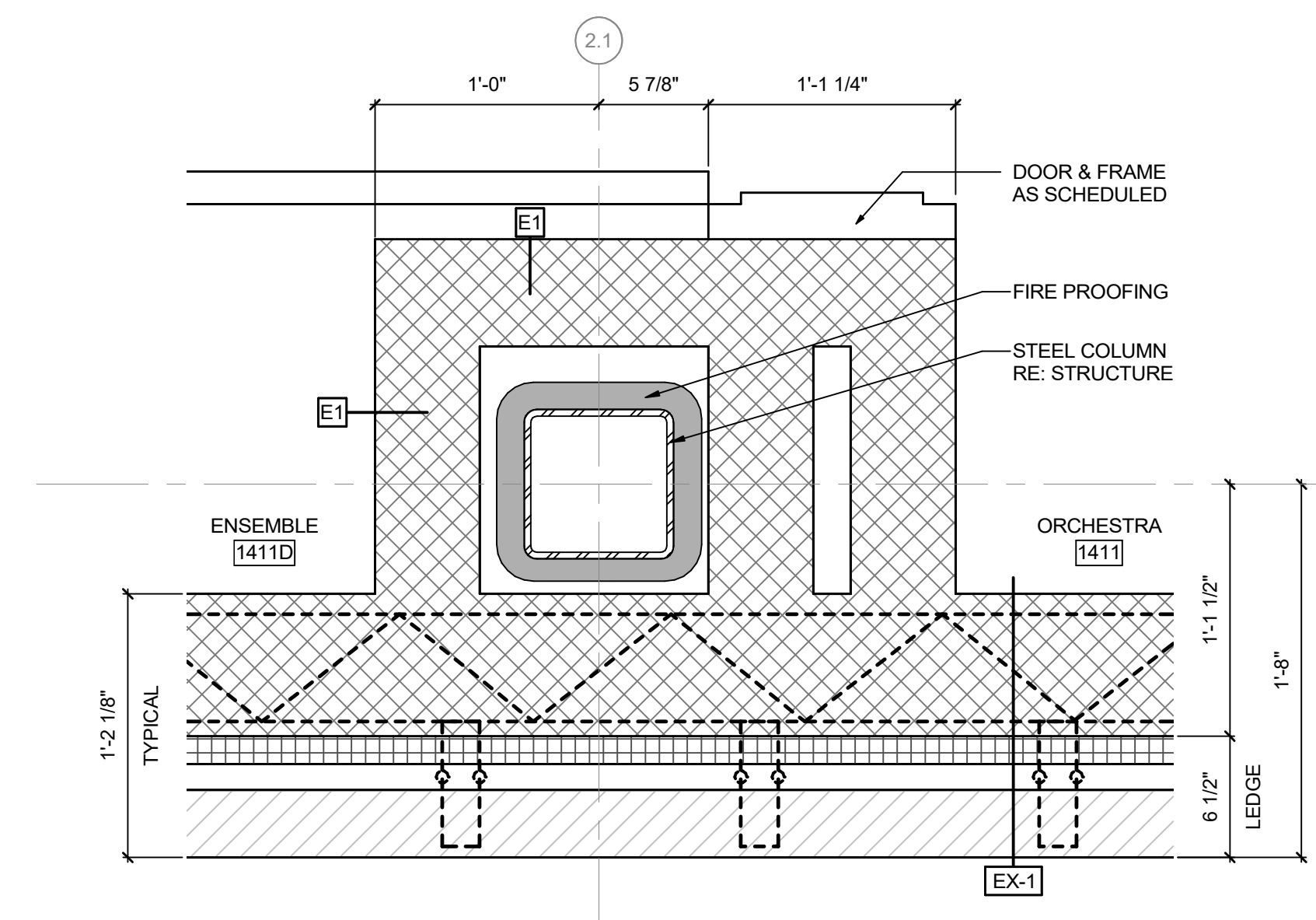




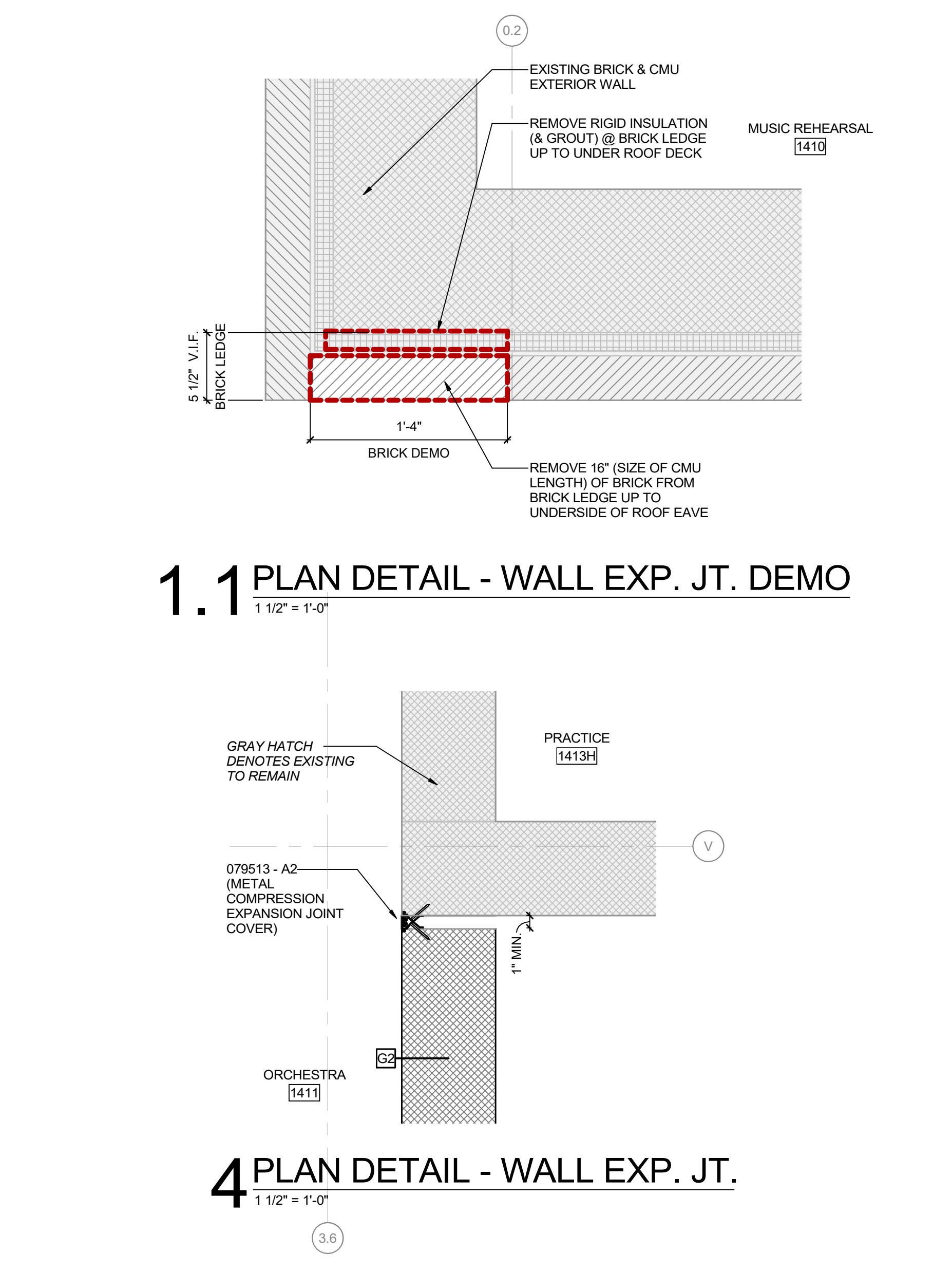
1 PLAN DETAIL - U.1 + 0.2  
1 1/2" = 1'-0"



2 PLAN DETAIL - W.1 + 1.1  
1 1/2" = 1'-0"

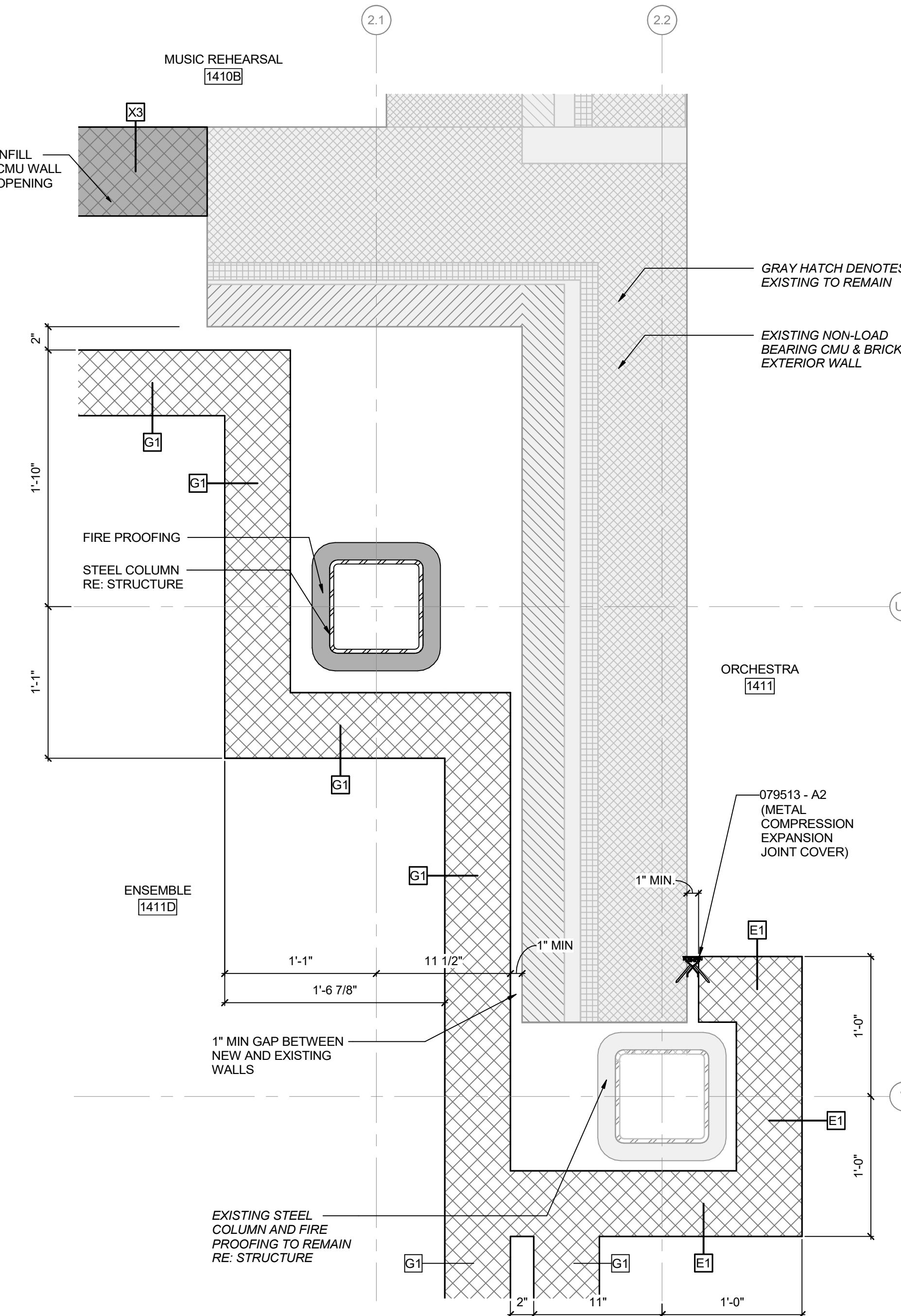


3 PLAN DETAIL - W.1 + 2.2  
1 1/2" = 1'-0"

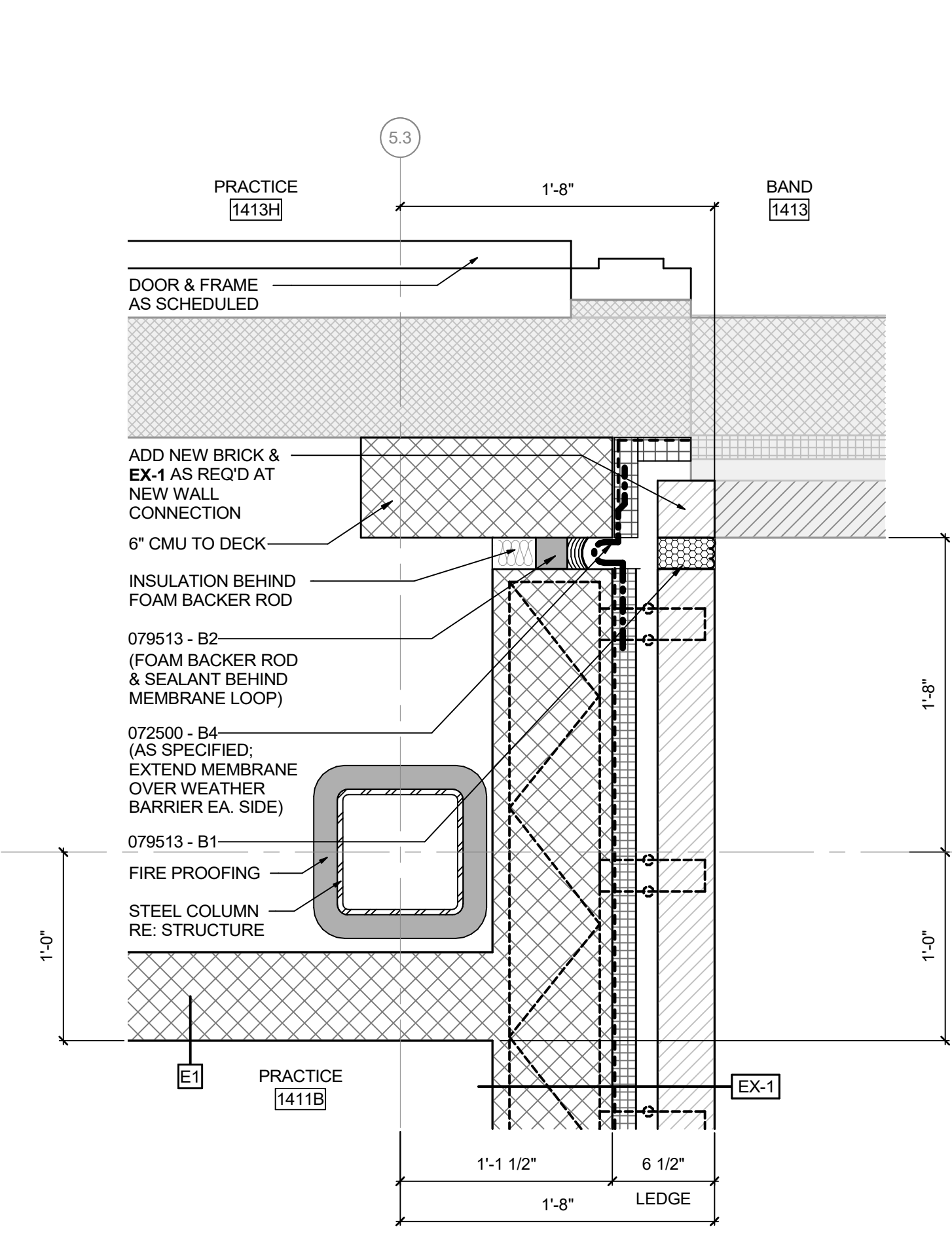


1.1 PLAN DETAIL - WALL EXP. JT. DEMO  
1 1/2" = 1'-0"

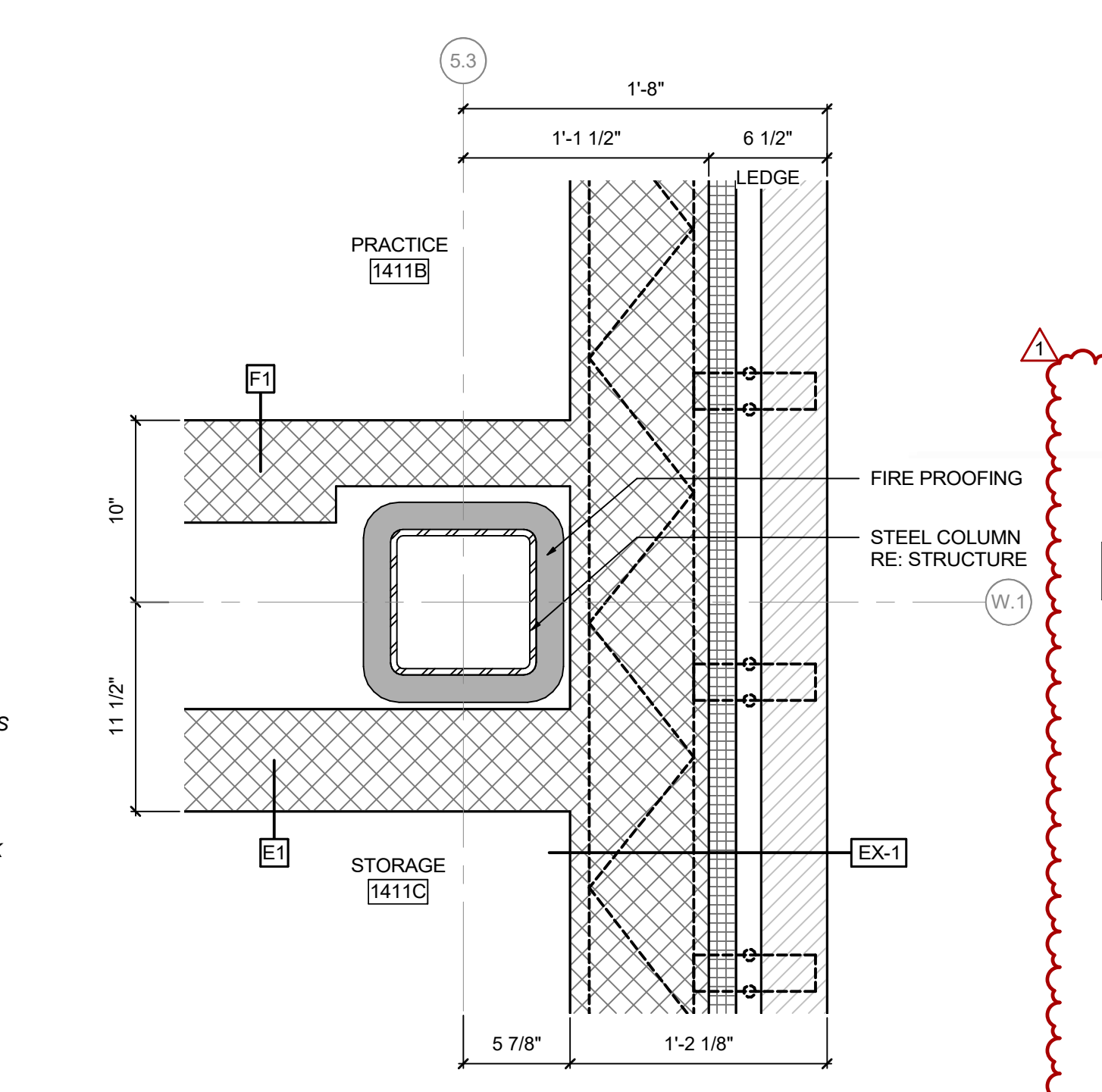
4 PLAN DETAIL - WALL EXP. JT.  
1 1/2" = 1'-0"



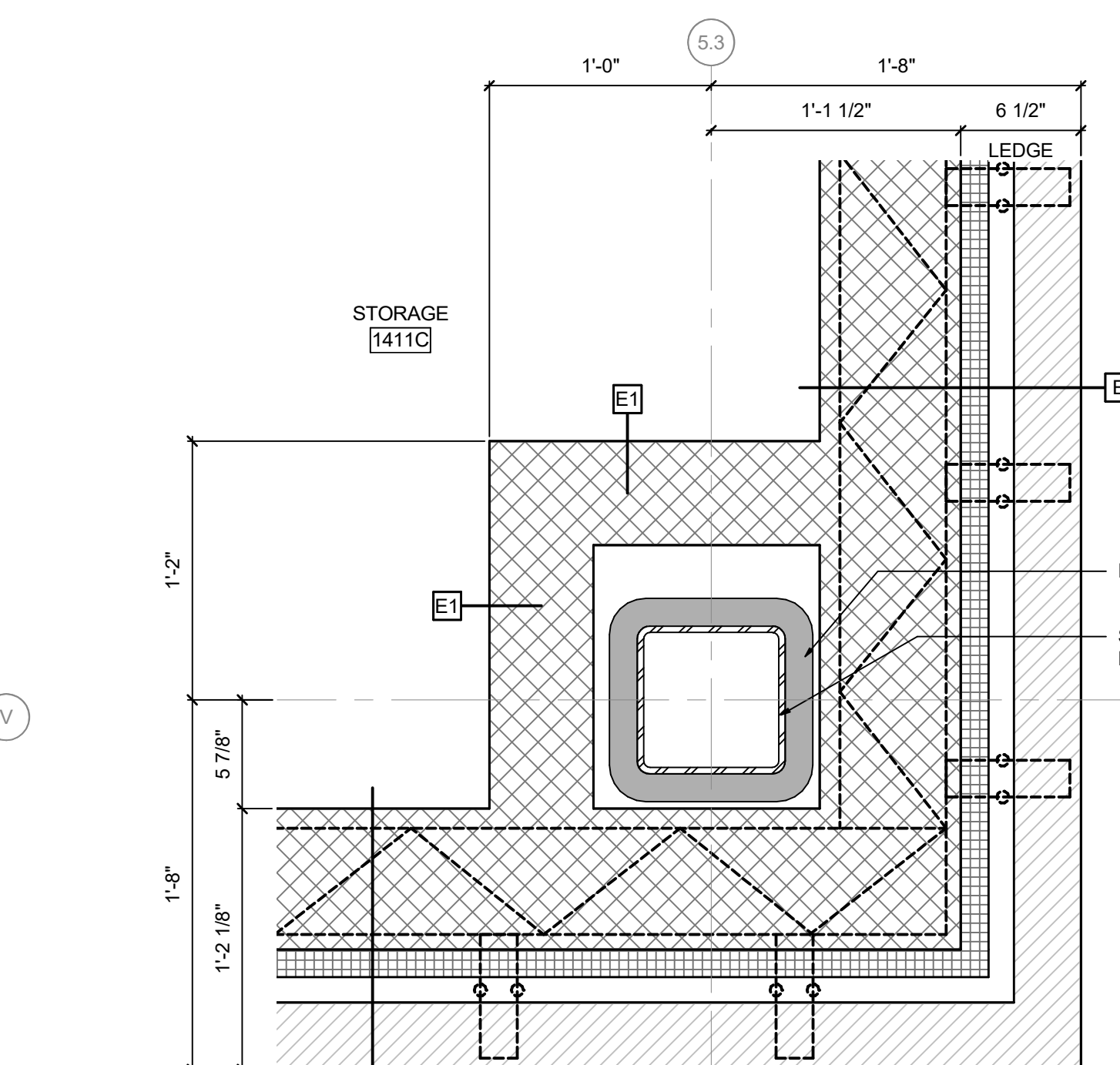
5 PLAN DETAIL - U.1 + 2.1  
1 1/2" = 1'-0"



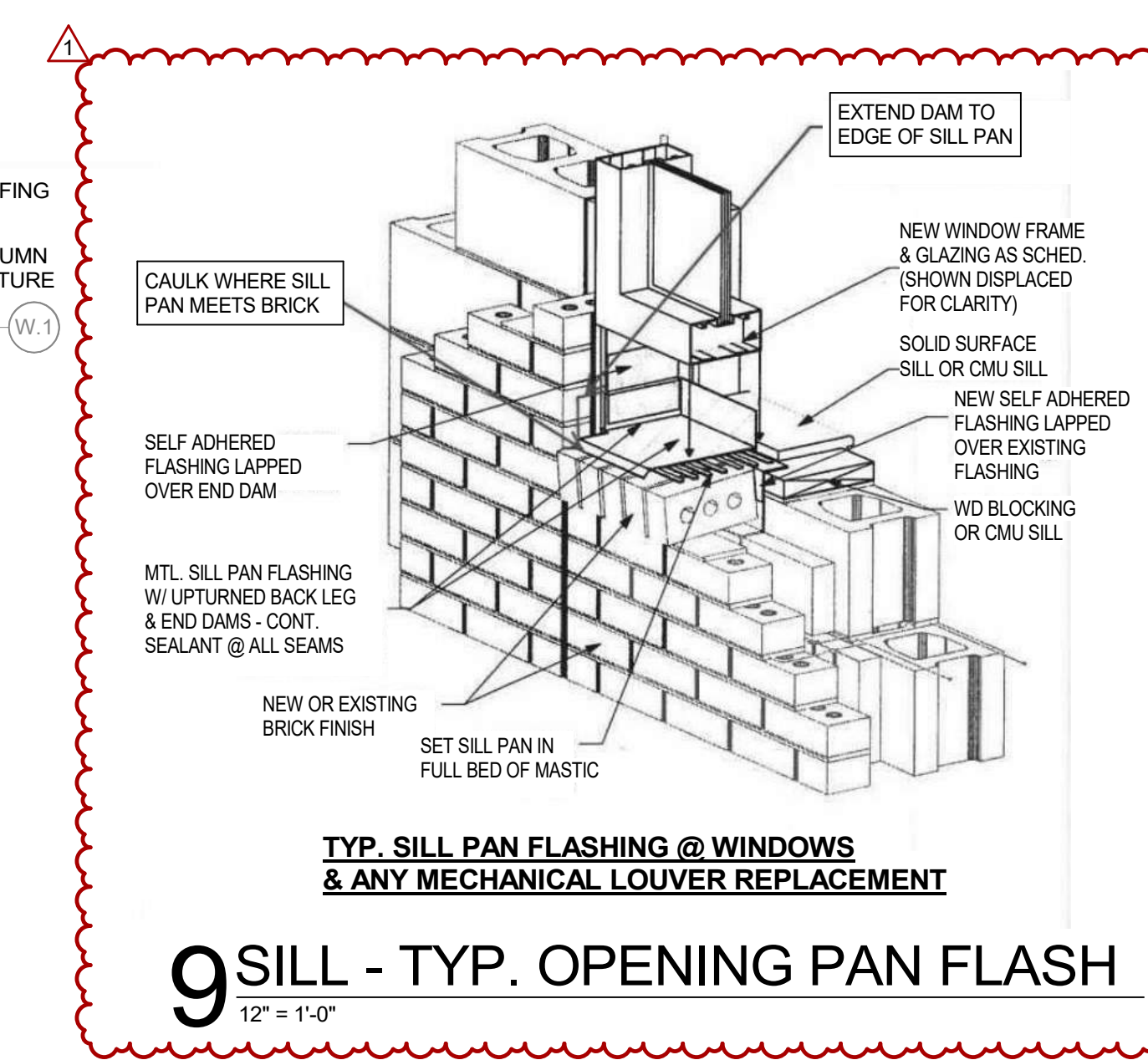
6 PLAN DETAIL - V2 + 5.3  
1 1/2" = 1'-0"



7 PLAN DETAIL - W.1 + 5.3  
1 1/2" = 1'-0"



8 PLAN DETAIL - X.1 + 5.3  
1 1/2" = 1'-0"



9 SILL - TYP. OPENING PAN FLASH  
12" = 1'-0"

**MATERIAL KEYNOTES**

- 042000 - A5 12X8X16 CONCRETE MASONRY UNIT - RE: STRUCT
- 042000 - D0 MODULAR VENEER FACE BRICK - STRETCHER COURSES (RUNNING BOND) - SEE ELEVATIONS FOR BANDING & COLOR
- 042000 - E1 AIR SPACE
- 042000 - F1 ADJUSTABLE MASONRY VENEER WALL TIES AT 15\"/>



**NATEX CORPORATION ARCHITECTS**  
www.natearchitects.com  
447 Heights Boulevard  
Houston, TX 77007  
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Fax: 713-780-7824

**Coleman Partners ARCHITECTS**  
www.cpa-arch.com  
3701 Kirby Drive, Suite 830  
Houston, TX 77098  
tel: 832-947-1038 fax: 281-214-5365

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KATY, TX 77449  
tel: 281-578-9595

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SUITE 900  
HOUSTON, TX 77064  
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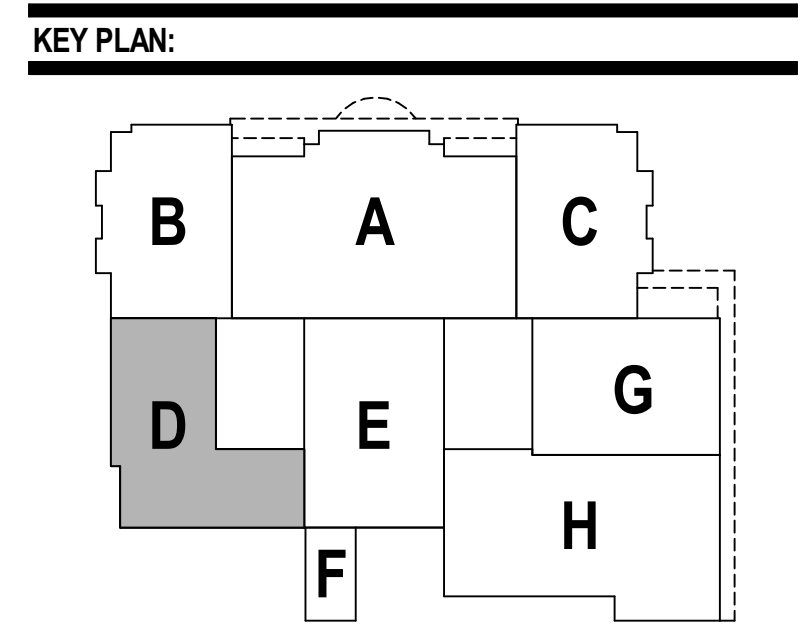
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**EXTERIOR WALL TYPE KEY LEGEND**

- 042000 - D0
- 042000 - E1
- 042000 - F1
- 042000 - F2
- 072100 - B1 NO INSULATION @ SIM. COND.
- 072500 - A2
- 042000 - A5

**NOTE:** ALL INTERIOR WALL TYPE SYMBOLS ARE FOUND ON SHEET A4.20



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**

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16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
CFISD PROJECT NO: 24-02-5750-R-RFP

Project Number: 23072  
Date: 29 DECEMBER 2024  
Drawn by: WHL / KLO

**PLAN DETAILS**

**A9.01**

1. ADDENDUM 02 01-16-25  
Revisions / Submission



**Salas O'Brien**  
 salesobrien.com 281-664-1900  
 Houston  
 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-4111  
 Project No: 2024-00211-00

**NATEX**  
 CORPORATION  
 ARCHITECTS  
 www.nateearchitects.com  
 447 Heights Boulevard  
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RENOVATIONS	
+	POINT OF CONNECTION FROM NEW TO EXISTING
□	ITEM TO REMAIN
⊖	ITEM TO BE REMOVED

CONTRACTOR SHALL PROVIDE DEHUMIDIFICATION DURING THE CONSTRUCTION SCHEDULE. THE SCOPE IS TO MAINTAIN ACCEPTABLE HUMIDITY LEVELS WITHIN THE BUILDING. THE REMOVAL OF EXCESS HUMIDITY FROM THE AIR THROUGHOUT THE BUILDING. PROVIDE MOISTURE CONTROL RENTAL EQUIPMENT AND SOLUTION FOR PREVENTING THE LONG-TERM EFFECTS OF MOISTURE LEVEL THAT CAN DAMAGE INTERIOR BUILDING MATERIALS, BOOKS AND ELECTRONIC EQUIPMENT.

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.

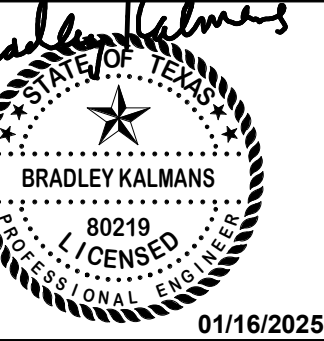
**GENERAL NOTES:**

- OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. THIS INCLUDES BUT IS NOT LIMITED TO CHILLERS, AIR HANDLING UNITS, ROOF TOP UNITS, FANS, CONDENSING UNITS, BMS CONTROL PANELS, TEMPERATURE SENSORS, AND CONTROL VALVES. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
- ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

**DEMOLITION KEYED NOTES:**

- REMOVE EXISTING SUPPLY AIR GRILLE. EXISTING DUCTWORK SHALL REMAIN AND BE REUSED, MAINTAIN EXISTING BALANCING DAMPER IN EXISTING LOCATION.
- REMOVE EXISTING RETURN AIR DEVICE.
- REMOVE EXISTING LIEBERT HVAC UNIT AND ALL ASSOCIATED DUCTWORK, PIPING, CONTROLS AND ELECTRICAL CONNECTIONS.
- EXISTING DUAL DUCT BOX TO REMAIN.
- REFER TO M2.01 FOR PIPING INSULATION WORK.
- REMOVE EXISTING EXHAUST AIR GRILLE AND ASSOCIATED BRANCH DUCT AS INDICATED.

**BID DOCUMENTS**



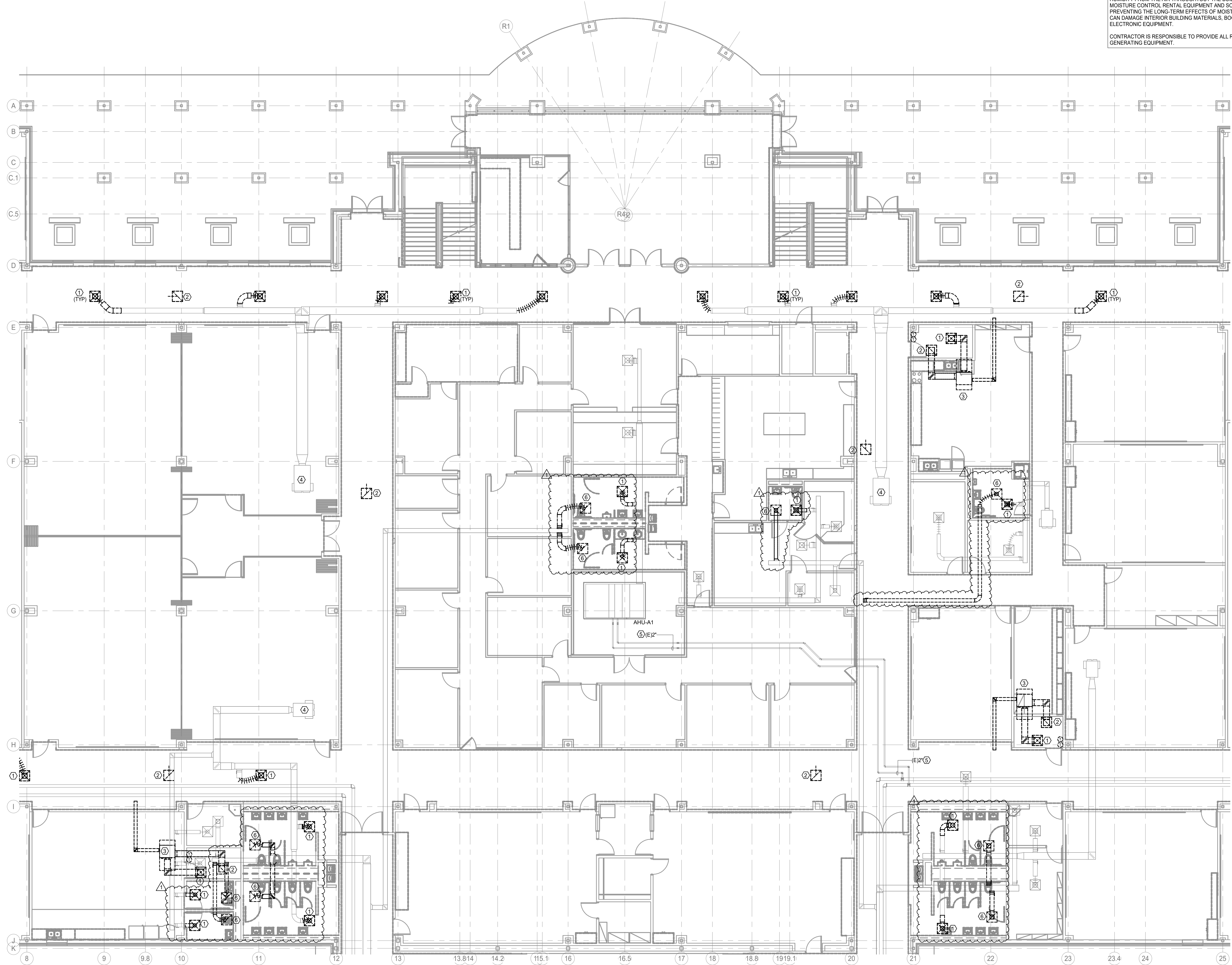
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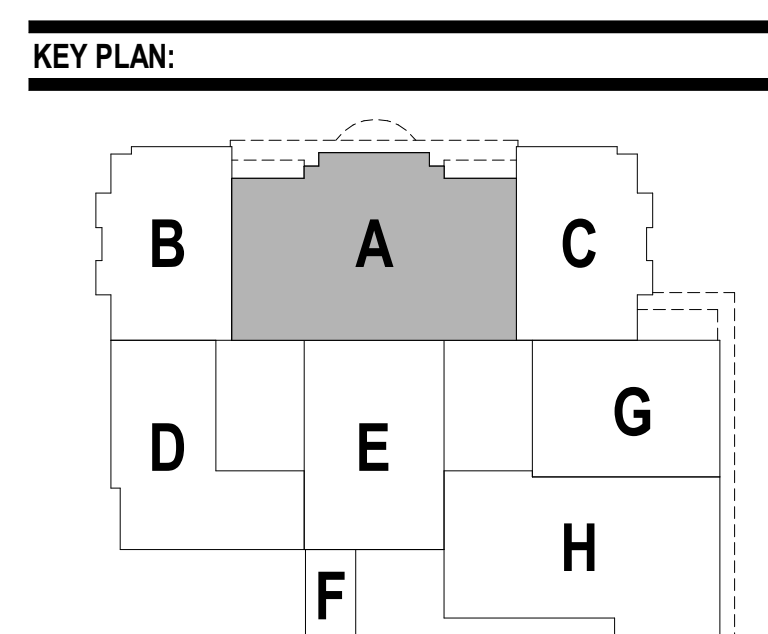
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 25317 INTERSTATE 45  
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**LANDSCAPE**  
**LANDSCAPE GROUP**  
 17041 EL CAMINO REAL, STE 204  
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**1 MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA A**  
 Scale: 1/8" = 1'-0"



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**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFSID PROJECT NO: 24-02-5750-R-RFP

1. ADDENDUM #2 01/16/25  
 Revisions / Submission

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: ER

**MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA 'A'**

**M0.01**

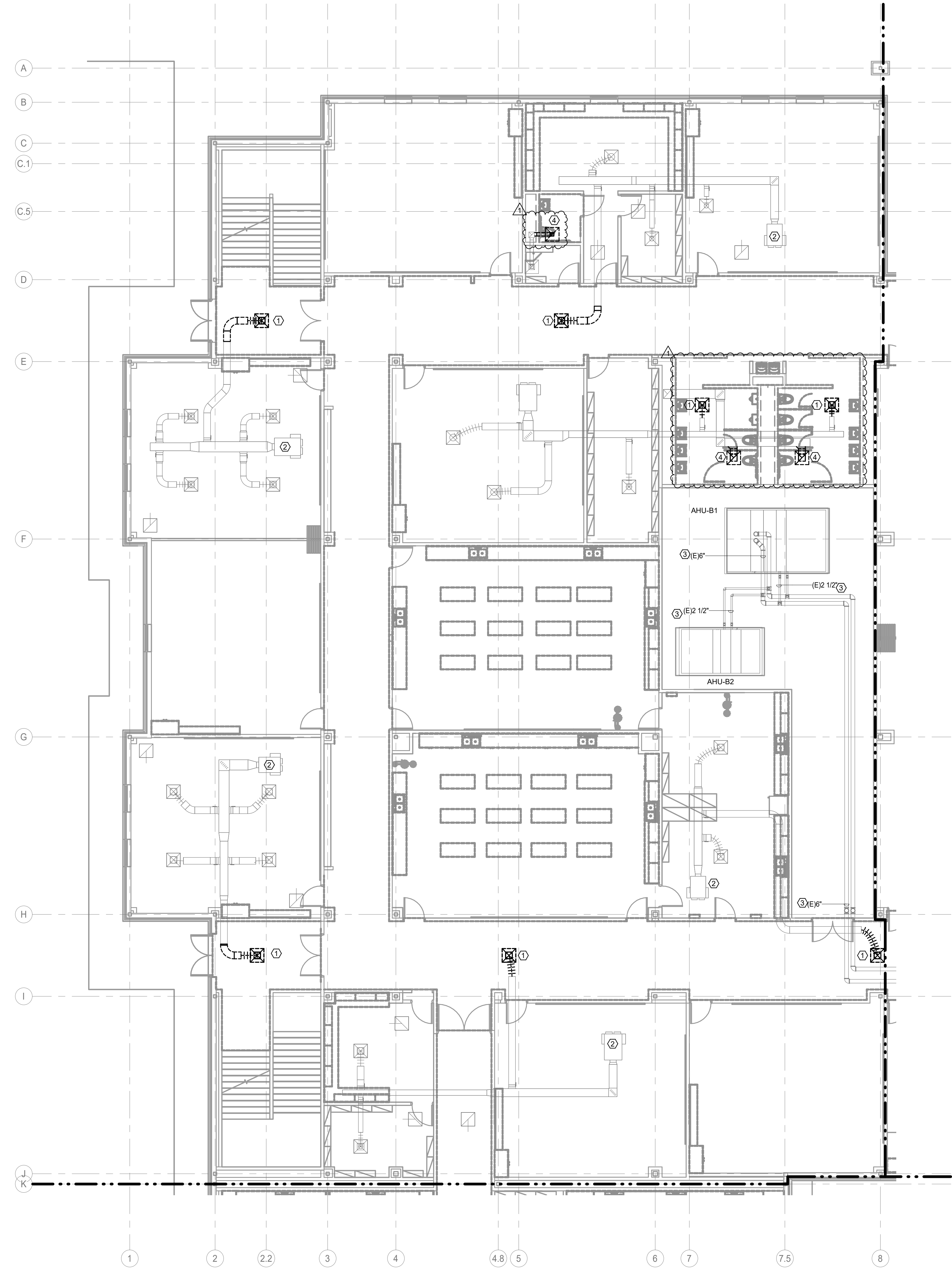
**RENOVATIONS**

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 CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.

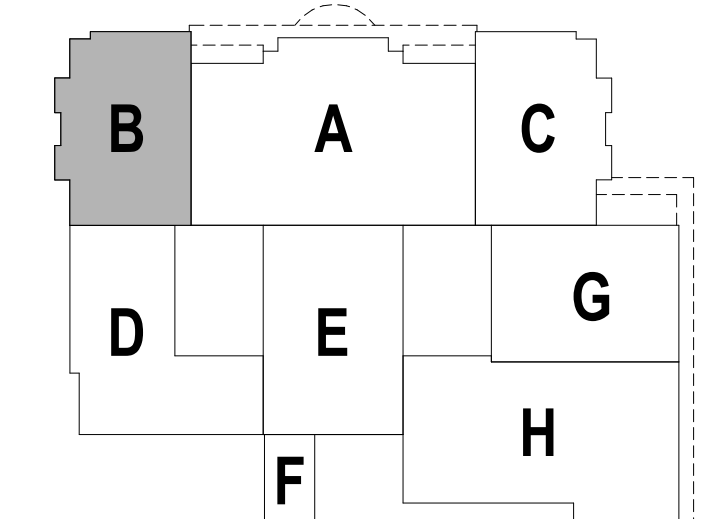
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  - THESE CONSTRUCTION DRAWINGS ARE DIAGNOSTIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
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- DEMOLITION KEYED NOTES:**
- REMOVE EXISTING SUPPLY AIR GRILLE. EXISTING DUCTWORK SHALL REMAIN AND BE REUSED. MAINTAIN EXISTING BALANCING DAMPER IN EXISTING LOCATION.
  - EXISTING DUAL DUCT BOX TO REMAIN.
  - REFER TO M2.02 FOR PIPING INSULATION WORK.
  - REMOVE EXISTING EXHAUST AIR GRILLE AND ASSOCIATED BRANCH DUCT AS INDICATED.



**1 MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA B**  
 Scale: 1/8" = 1'-0"

KEY PLAN:



**Salas O'Brien**  
 salesobrien.com 281-664-1900  
 Houston  
 10930 W. Sam Houston Pkwy North, Suite 900  
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 3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
 tel: 832.947.1038 fax: 281.214.5365

**BID DOCUMENTS**

**BRADLEY KALMANS**  
 80219  
 /CENTRAL TEXAS  
 01/16/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
 21020 PARK ROW  
 KATY, TX 77449  
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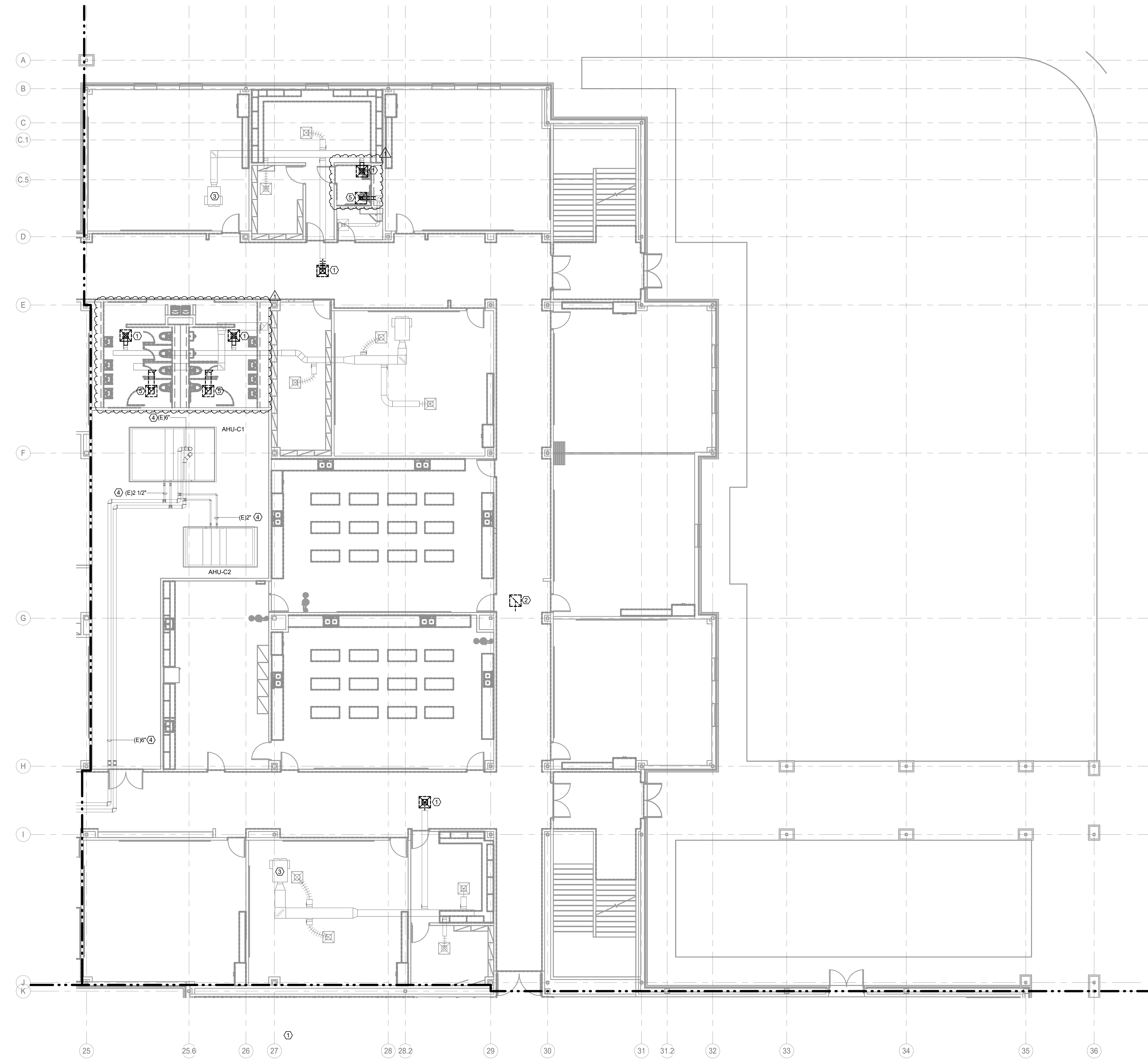
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- THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
- ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

**DEMOLITION KEYED NOTES:**

- REMOVE EXISTING SUPPLY AIR GRILLE. EXISTING DUCTWORK SHALL REMAIN AND BE REUSED. MAINTAIN EXISTING BALANCING DAMPER IN EXISTING LOCATION.
- REMOVE EXISTING RETURN AIR DEVICE.
- EXISTING DUAL DUCT BOX TO REMAIN.
- REFER TO M2.03 FOR PIPING INSULATION WORK.
- REMOVE EXISTING EXHAUST AIR GRILLE AND ASSOCIATED BRANCH DUCT AS INDICATED.



**MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA C**  
 Scale: 1/8" = 1'-0"

**KEY PLAN:**

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: ER  
**MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA 'C'**  
**M0.03**

**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFISD PROJECT NO: 24-02-5750-R-RFP

Revision / Submission	ADDENDUM #2	01/16/25
1		

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: ER  
**MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA 'C'**  
**M0.03**



**Salas O'Brien**  
 salasobrien.com 281-664-1900  
 Houston 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-411  
 Project No: 2024-0211-00

**NATEX CORPORATION ARCHITECTS**  
 www.natesarchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
 Fax: 713-780-7824

**Coleman Partners ARCHITECTS**  
 www.colemanpartners.com  
 3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
 tel: 832-947-1038 fax: 282-214-5365

**BID DOCUMENTS**  
 BRADLEY KALMANS  
 80219  
 01/16/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
 21020 PARK ROW  
 KATY, TX 77449  
 tel: 281-578-9595

**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
 tel: 713.337.8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
 tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
 25317 INTERSTATE 45  
 THE WOODLANDS, TX 77380  
 tel: 281-350-2323

**LANDSCAPE**  
**LANDSCAPE GROUP**  
 17041 EL CAMINO REAL, STE 204  
 HOUSTON, TX 77058  
 tel: 281.486.4040

**GENERAL NOTES:**

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- THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
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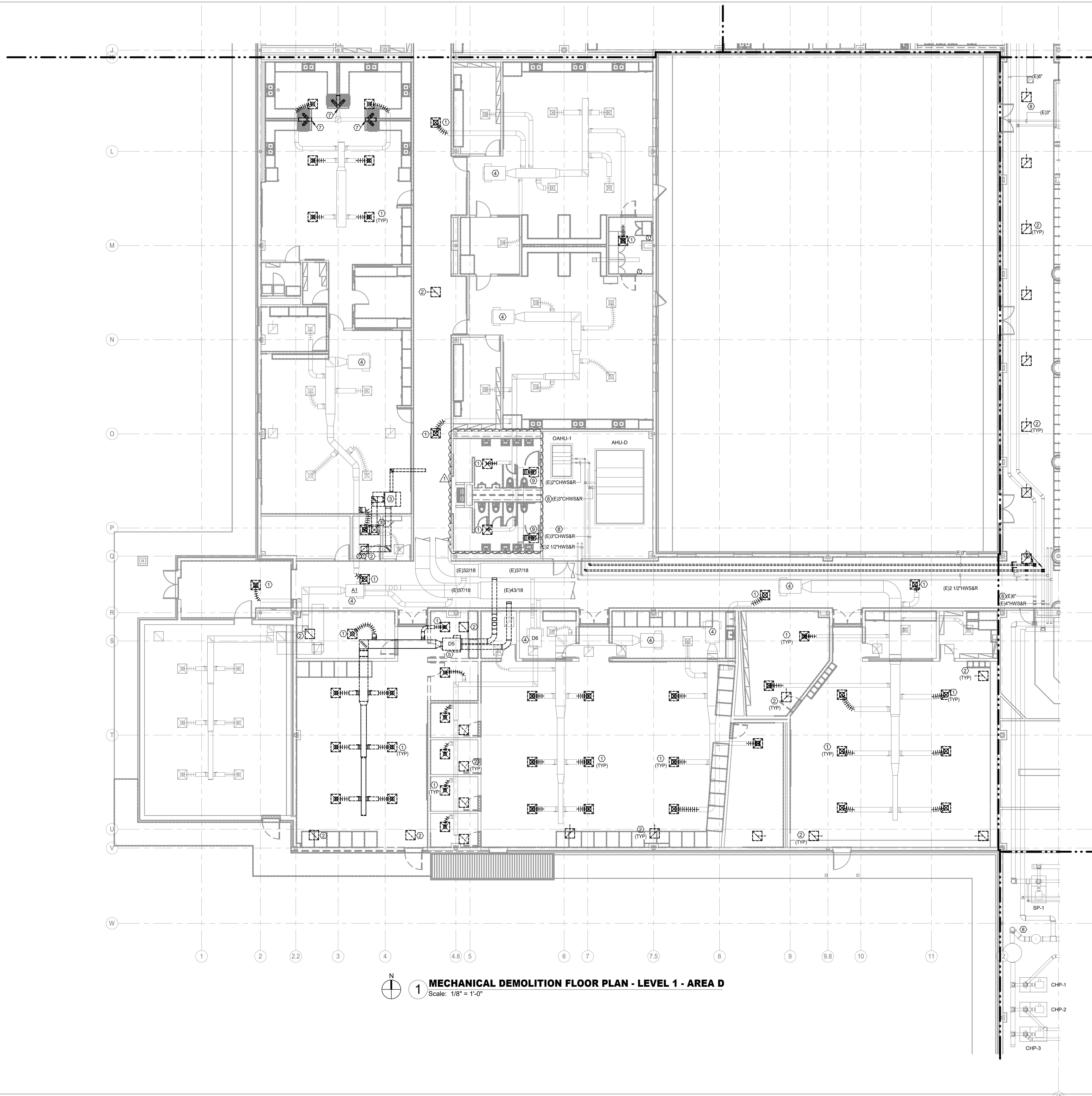
RENOVATIONS	
+	POINT OF CONNECTION FROM NEW TO EXISTING
□	ITEM TO REMAIN
⊖	ITEM TO BE REMOVED

CONTRACTOR SHALL PROVIDE DEHUMIDIFICATION DURING THE CONSTRUCTION SCHEDULE. THE SCOPE IS TO MAINTAIN ACCEPTABLE HUMIDITY LEVELS WITHIN THE BUILDING; THE REMOVAL OF EXCESS HUMIDITY FROM THE AIR THROUGHOUT THE BUILDING; PROVIDE MOISTURE CONTROL RENTAL EQUIPMENT AND SOLUTION FOR PREVENTING THE LONG-TERM EFFECTS OF MOISTURE LEVEL THAT CAN DAMAGE INTERIOR BUILDING MATERIALS, BOOKS AND ELECTRONIC EQUIPMENT.

CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.

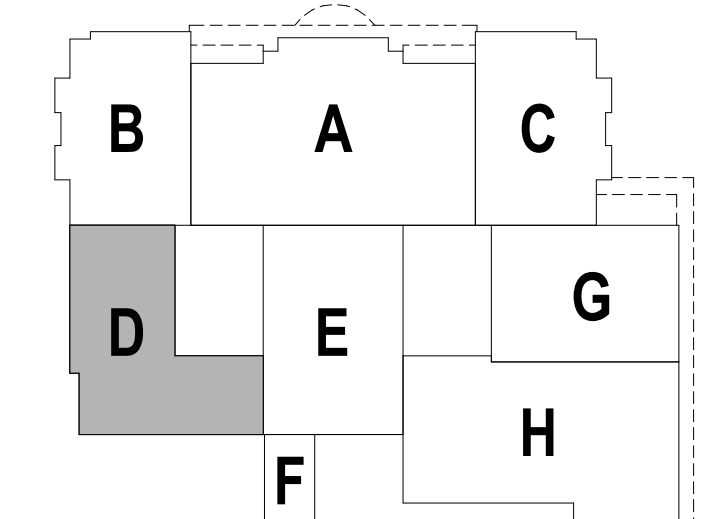
**DEMOLITION KEYED NOTES:**

- REMOVE EXISTING SUPPLY AIR GRILLE, EXISTING DUCTWORK SHALL REMAIN AND BE REUSED, MAINTAIN EXISTING BALANCING DAMPER IN EXISTING LOCATION.
- REMOVE EXISTING RETURN AIR DEVICE.
- REMOVE EXISTING LIEBERT HVAC UNIT AND ALL ASSOCIATED DUCTWORK, PIPING, CONTROLS AND ELECTRICAL CONNECTIONS.
- EXISTING DUAL DUCT BOX TO REMAIN.
- REMOVE EXISTING DUAL DUCT BOX, ASSOCIATED DUCTWORK, PIPING, CONTROLS AND ELECTRICAL CONNECTIONS.
- REMOVE EXISTING CHWS&R PIPING BACK TO THIS POINT.
- REMOVE EXHAUST DUCT CONNECTION BACK TO LOCATION INDICATED.
- REFER TO M2.04 FOR PIPING INSULATION WORK.
- REMOVE EXISTING EXHAUST AIR GRILLE AND ASSOCIATED BRANCH DUCT AS INDICATED.



**1 MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA D**  
 Scale: 1/8" = 1'-0"

**KEY PLAN:**



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFISD PROJECT NO: 24-02-5750-R-RFP

T. ADDENDUM #2 01/16/25  
 Revisions / Submission

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: ER

**MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA 'D'**  
**M0.04**

**Salas O'Brien**  
 salesobrien.com 281-664-1900  
 Houston  
 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-4111  
 Project No: 2024-00211-00

**NATEX**  
 CORPORATION  
 ARCHITECTS  
 www.nateearchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
 Fax: 713-780-7824

**Coleman Partners**  
 ARCHITECTS  
 cpa@cpa.com  
 3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
 tel: 832.947.1038 fax: 281.214.5365

**BID DOCUMENTS**

*Bradley Kalmans*  
 BRADLEY KALMANS  
 80219  
 /CENTRAL TEXAS  
 01/16/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
 21020 PARK ROW  
 KATY, TX 77449  
 tel: 281.578.9595

**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
 tel: 713.337.8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
 tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
 25317 INTERSTATE 45  
 THE WOODLANDS, TX 77380  
 tel: 281.350.2323

**LANDSCAPE**  
**LANDSCAPE GROUP**  
 17041 EL CAMINO REAL, STE 204  
 HOUSTON, TX 77058  
 tel: 281.486.4040

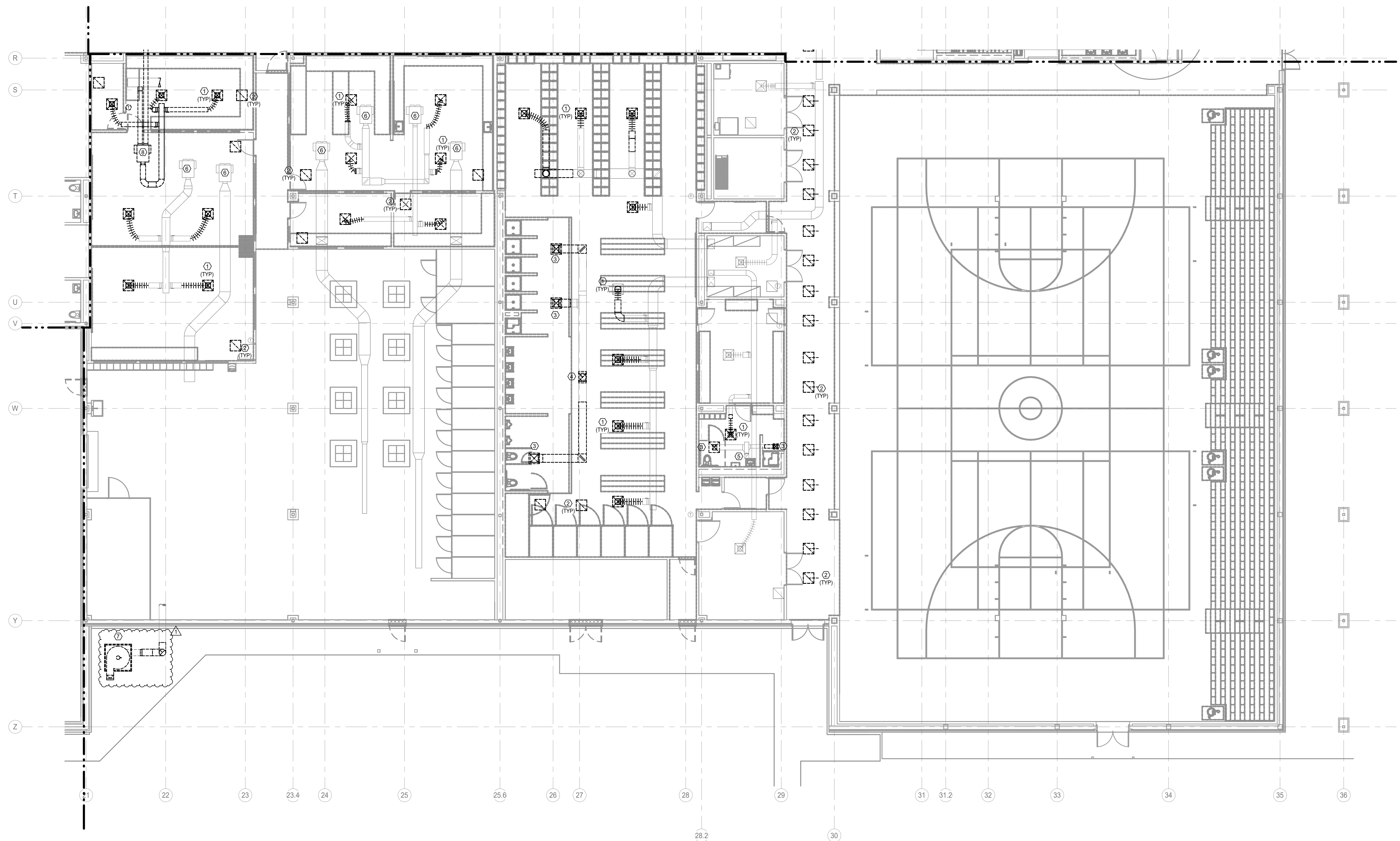
RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

CONTRACTOR SHALL PROVIDE DEHUMIDIFICATION DURING THE CONSTRUCTION SCHEDULE. THE SCOPE IS TO MAINTAIN ACCEPTABLE HUMIDITY LEVELS WITHIN THE BUILDING. THE REMOVAL OF EXCESS HUMIDITY FROM THE AIR THROUGHOUT THE BUILDING. PROVIDE MOISTURE CONTROL RENTAL EQUIPMENT AND SOLUTION FOR PREVENTING THE LONG-TERM EFFECTS OF MOISTURE LEVEL THAT CAN DAMAGE INTERIOR BUILDING MATERIALS, BOOKS AND ELECTRONIC EQUIPMENT.

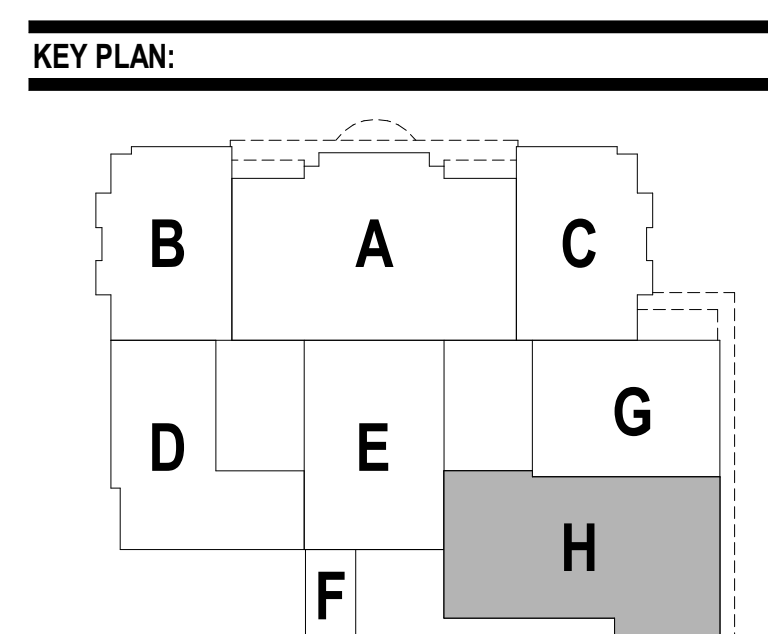
CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.

- GENERAL NOTES:**
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  - THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC, AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
  - ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

- DEMOLITION KEYED NOTES:**
- REMOVE EXISTING SUPPLY AIR GRILLE, EXISTING BRANCH DUCTWORK SHALL REMAIN AND BE REUSED.
  - REMOVE EXISTING RETURN AIR DEVICE.
  - REMOVE EXISTING EXHAUST AIR GRILLE, EXISTING DUCTWORK SHALL REMAIN AND BE REUSED.
  - REMOVE EXISTING EXHAUST FAN, ROOF CURB, CONTROLS AND DUCTWORK AS INDICATED. CONTRACTOR SHALL PRESERVE EXISTING OPENING FOR DURATION OF CONSTRUCTION.
  - EXISTING EXHAUST FAN TO REMAIN.
  - EXISTING DUAL DUCT BOX TO REMAIN.
  - REMOVE EXISTING DUST COLLECTOR, EXISTING DUCT TO REMAIN.
  - REMOVE EXISTING DUAL DUCT BOX, ASSOCIATED DUCTWORK AND ALL ASSOCIATED CONTROLS.



**1 MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 1 - AREA H**  
 Scale: 1/8" = 1'-0"



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**

**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFISD PROJECT NO: 24-02-5750-R-RFP

T. ADDENDUM #2 01/16/25  
 Revisions / Submission

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: ER

**MECHANICAL DEMOLITION FIRST FLOOR PLAN - AREA 'H'**

**M0.08**



**Salas O'Brien**  
 salasobrien.com 281-664-1900  
 Houston  
 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-4111  
 Project No: 2024-00211-00

**NATEX**  
 CORPORATION  
 ARCHITECTS  
 www.nateearchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
 Fax: 713-780-7824

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 ARCHITECTS  
 architects.com  
 3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
 tel: 832.947.1038 fax: 282.214.5365

**BID DOCUMENTS**  
 01/16/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
 21020 PARK ROW  
 KATY, TX 77449  
 tel: 281.578.9595

**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
 tel: 713.337.8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
 tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
 25317 INTERSTATE 45  
 THE WOODLANDS, TX 77380  
 tel: 281.350.2323

**LANDSCAPE**  
**LANDSCAPE GROUP**  
 17041 EL CAMINO REAL, STE 204  
 HOUSTON, TX 77058  
 tel: 281.486.4040

RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

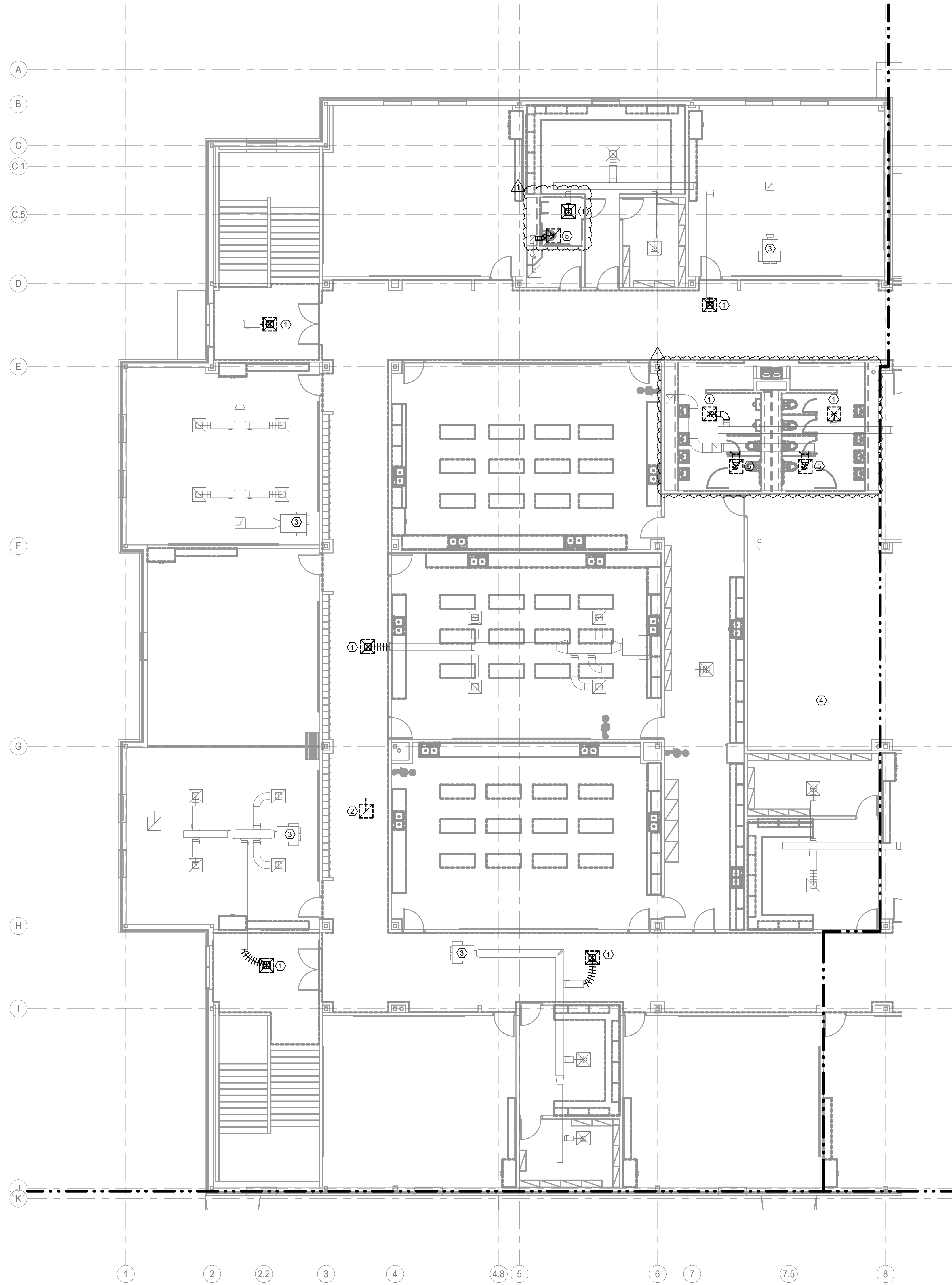
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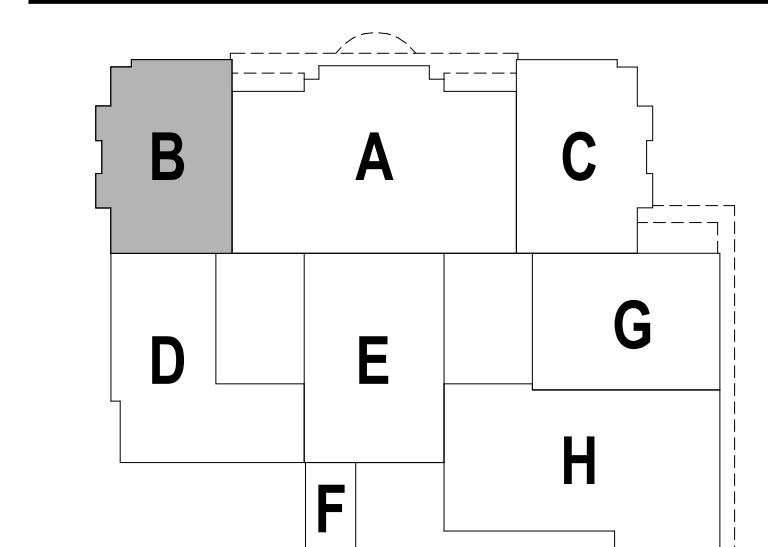
**DEMOLITION KEYED NOTES:**

- REMOVE EXISTING SUPPLY AIR GRILLE, EXISTING BRANCH DUCTWORK SHALL REMAIN AND BE REUSED.
- REMOVE EXISTING RETURN AIR DEVICE.
- EXISTING DUAL DUCT BOX TO REMAIN.
- REFER TO M2.10 FOR PIPING INSULATION WORK.
- REMOVE EXISTING EXHAUST AIR GRILLE AND ASSOCIATED BRANCH DUCT AS INDICATED.



**1 MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 2 - AREA B**  
 Scale: 1/8" = 1'-0"

**KEY PLAN:**



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFISD PROJECT NO: 24-02-5750-R-RFP

Revision / Submission	ADDENDUM #2	01/16/25
1		

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: ER

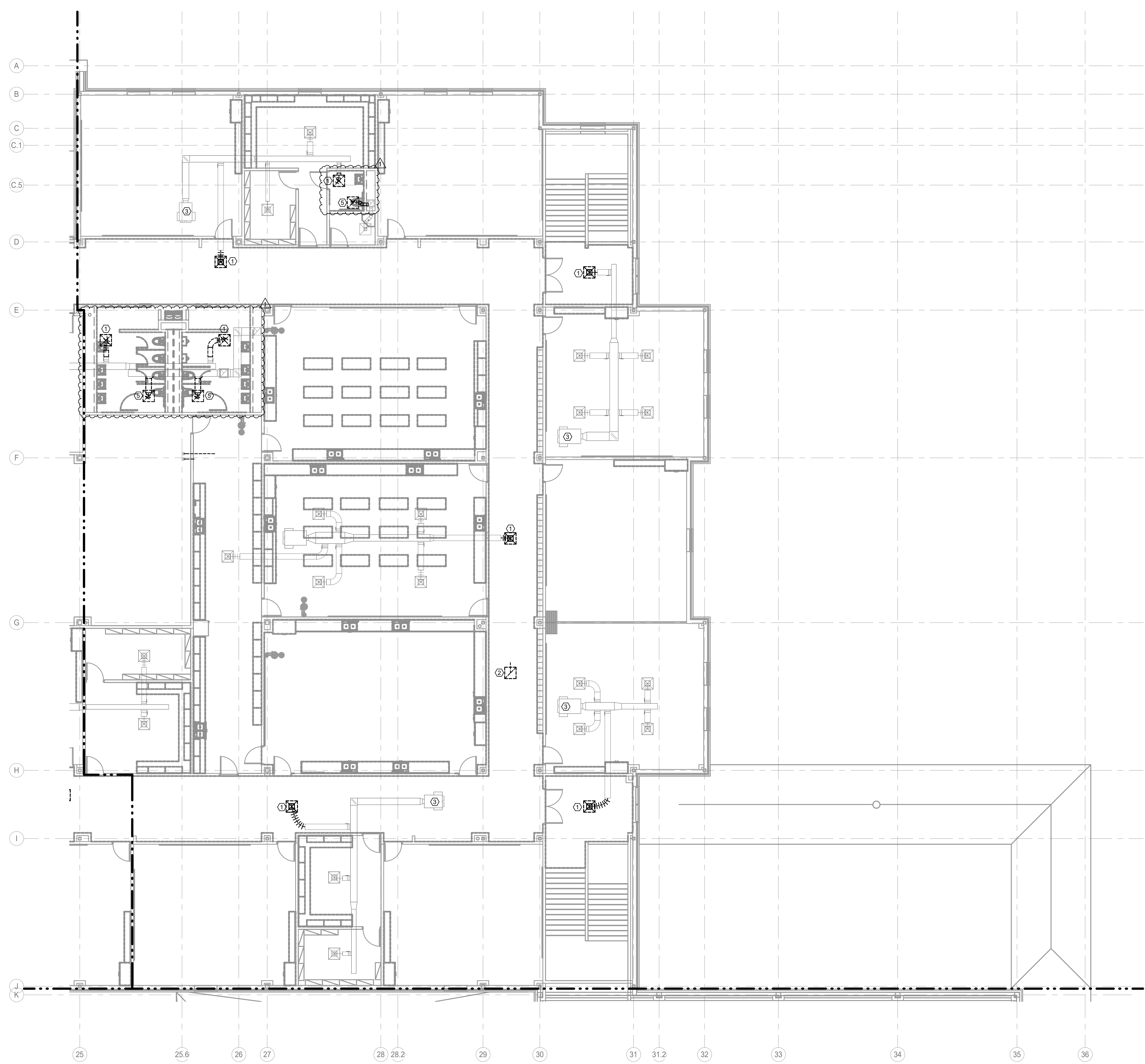
**MECHANICAL DEMOLITION SECOND FLOOR PLAN - AREA 'B'**

**M0.10**

**Salas O'Brien**  
 salesobrien.com 281-664-1900  
 Houston 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-4111  
 Project No: 2024-00211-00

**NATEX**  
 CORPORATION  
 ARCHITECTS  
 www.natexarchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
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**Coleman Partners**  
 ARCHITECTS  
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**RENOVATIONS**

◆	POINT OF CONNECTION FROM NEW TO EXISTING
□	ITEM TO REMAIN
⊠	ITEM TO BE REMOVED

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- EXISTING DUAL DUCT BOX TO REMAIN.
- REFER TO M2.11 FOR PIPING INSULATION WORK.
- REMOVE EXISTING EXHAUST AIR GRILLE AND ASSOCIATED BRANCH DUCT AS INDICATED.

**BID DOCUMENTS**

**BRADLEY KALMANS**  
 80219  
 /CENTRAL  
 01/16/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
 21020 PARK ROW  
 KATY, TX 77449  
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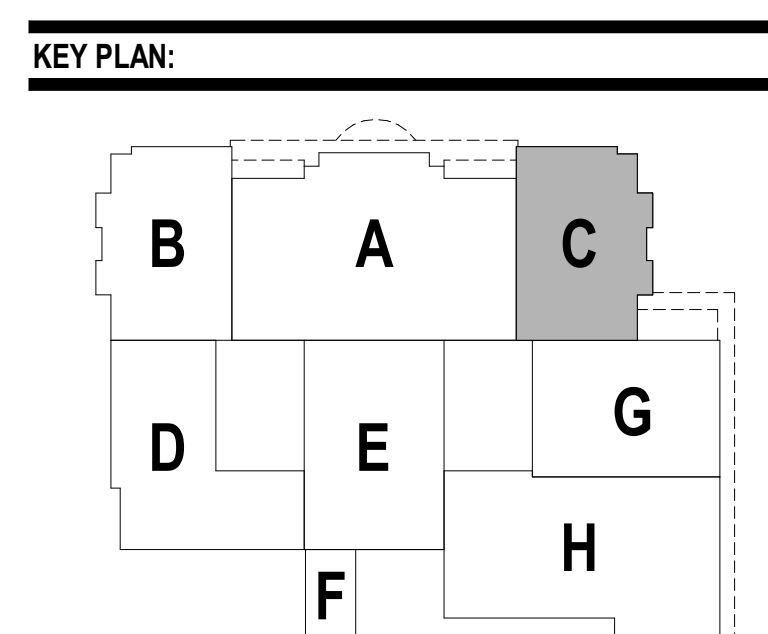
**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
 tel: 713.337.8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
 tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
 25317 INTERSTATE 45  
 THE WOODLANDS, TX 77380  
 tel: 281.350.2323

**LANDSCAPE**  
**LANDSCAPE GROUP**  
 17041 EL CAMINO REAL, STE 204  
 HOUSTON, TX 77058  
 tel: 281.486.4040

**1 MECHANICAL DEMOLITION FLOOR PLAN - LEVEL 2 - AREA C**  
 Scale: 1/8" = 1'-0"



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**

**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFISD PROJECT NO: 24-02-5750-R-RFP

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: ER

**MECHANICAL DEMOLITION SECOND FLOOR PLAN - AREA 'C'**

**M0.11**

1. ADDENDUM #2 01/16/25  
 Revisions / Submission



**GENERAL NOTES:**

1. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
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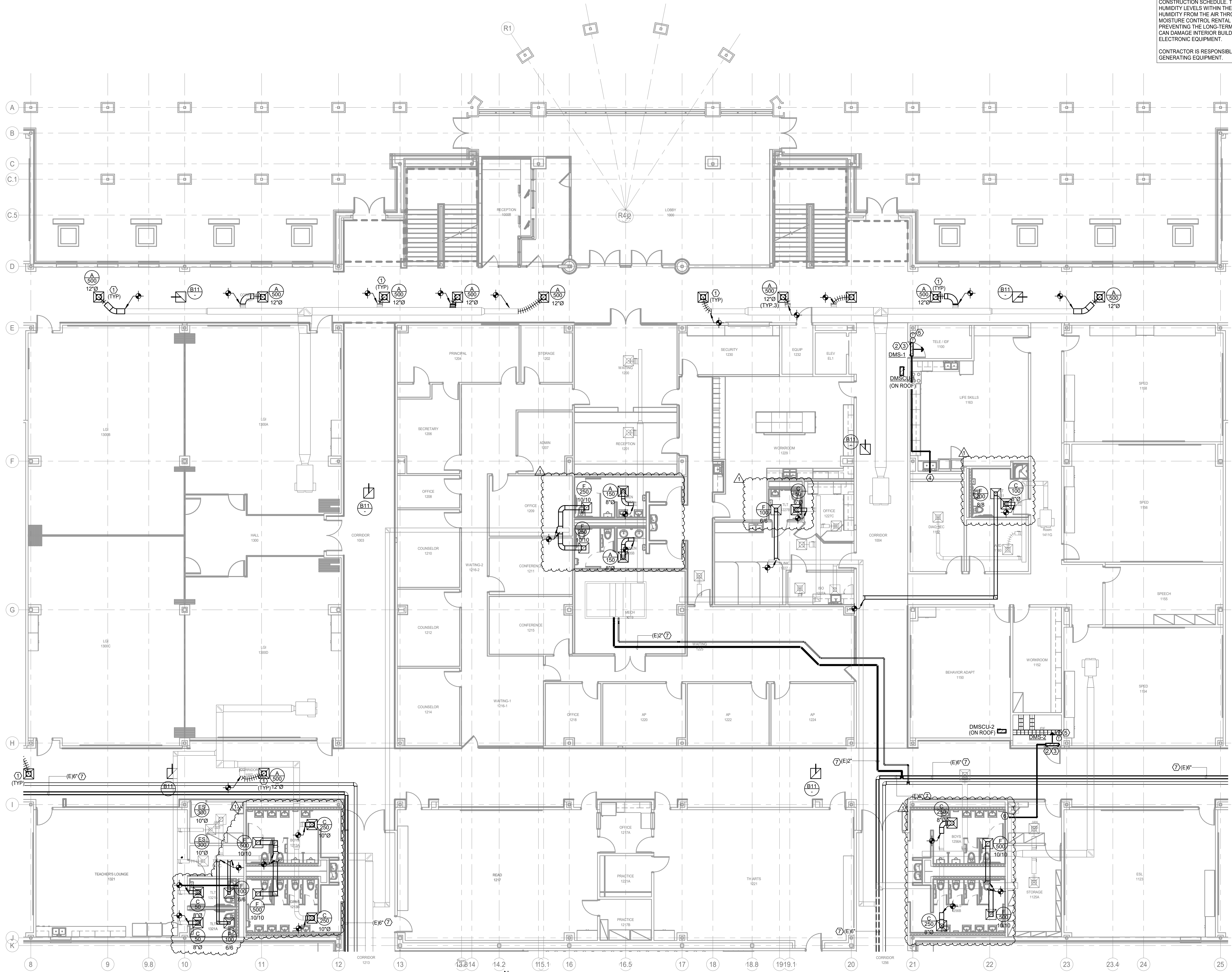
**MECHANICAL KEYED NOTES:**

1. PROVIDE ADDITIONAL FLEX DUCTWORK AS REQUIRED TO INSTALL DIFFUSER IN EXISTING LOCATION.
2. PROVIDE REQUIRED CLEARANCES FOR PROPER MAINTENANCE AND OPERATION.
3. ROUTE REFRIGERANT LINES TO ASSOCIATED AIR COOLED CONDENSING UNIT ON ROOF. SIZE PER MANUFACTURER'S RECOMMENDATIONS.
4. ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO SINK WYE TAILPIECE IN LIFE SKILLS 1163 AS INDICATED.
5. PROVIDE BMCS MONITORING TEMPERATURE SENSOR AS INDICATED.
6. ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO FLOOR DRAIN IN JAN 1125 AS INDICATED.
7. REMOVE EXISTING CHWS/R PIPING INSULATION AS INDICATED, REINSULATE AND SEAL PER SPECIFICATIONS.

RENOVATIONS	
	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

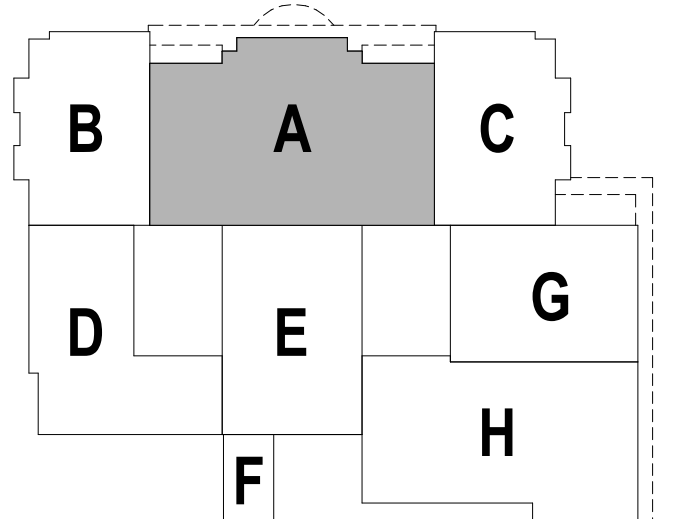
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CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.



**1 MECHANICAL FLOOR PLAN - LEVEL 1 - AREA A**  
 Scale: 1/8" = 1'-0"

**KEY PLAN:**



**Salas O'Brien**  
 salasobrien.com 281-664-1900  
 Houston  
 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
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 Fax: 713-780-7824

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 ARCHITECTS  
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 KATY, TX 77449  
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**STRUCTURAL ENGINEER**  
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 HOUSTON, TX 77042  
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**MEPT ENGINEER**  
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 SUITE 900  
 HOUSTON, TX 77064  
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 THE WOODLANDS, TX 77380  
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 17041 EL CAMINO REAL, STE 204  
 HOUSTON, TX 77058  
 tel: 281.486.4040

**GENERAL NOTES:**

1. THESE CONSTRUCTION DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY REFLECT ACTUAL DIMENSIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD-VERIFY ALL DIMENSIONS AND COORDINATE PLACEMENT OF ALL EQUIPMENT AND ROUTING OF ALL PIPING AND/OR DUCT SYSTEMS.
2. ALL MECHANICAL SYSTEMS SHOWN ON THIS PLAN ARE FROM EXISTING DRAWINGS AND PRELIMINARY FIELD WORK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL LOCATIONS AND SIZES OF MECHANICAL SYSTEMS PRIOR TO THE START OF WORK.

**MECHANICAL KEYED NOTES:**

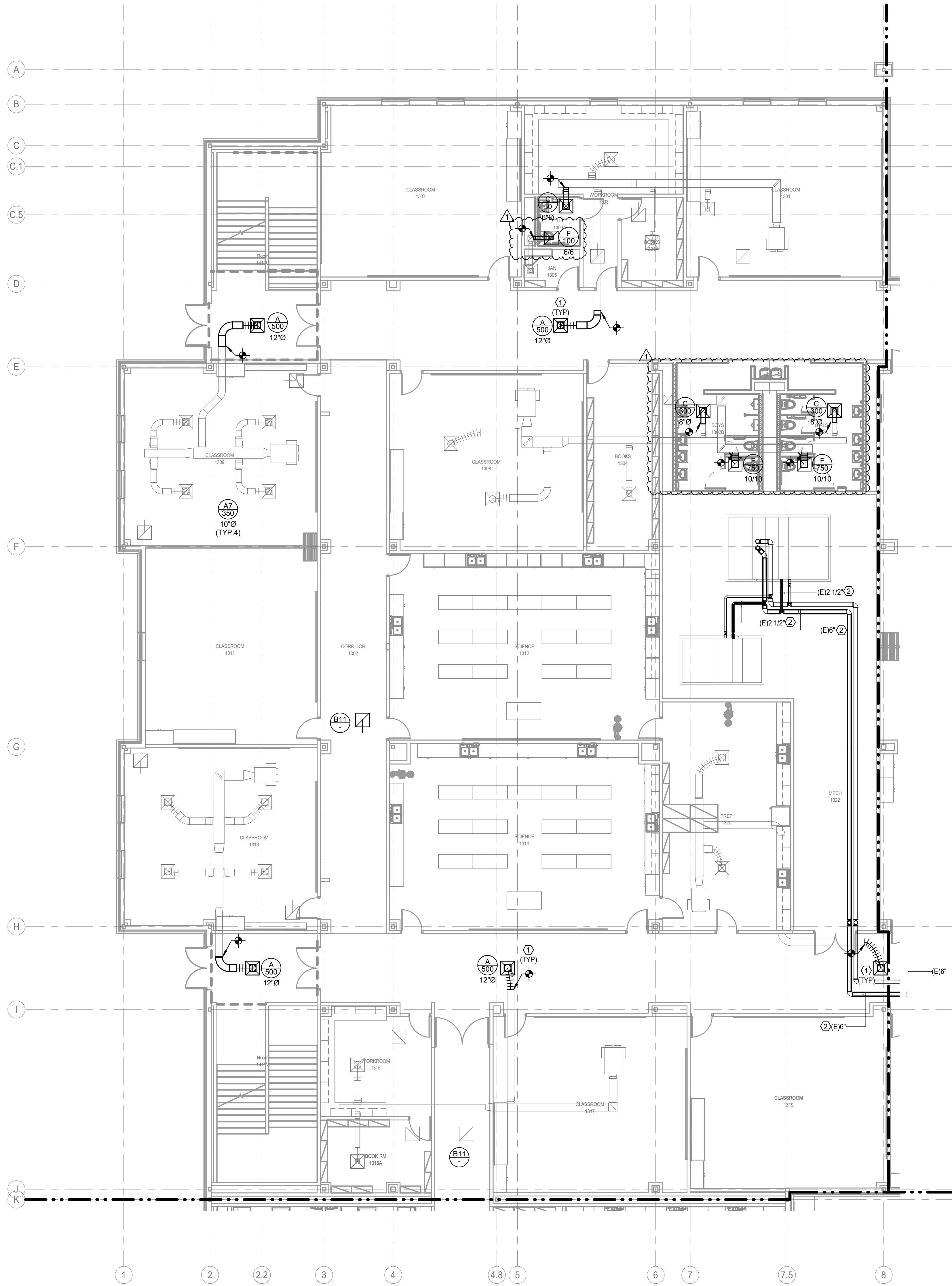
- ① PROVIDE ADDITIONAL FLEX DUCTWORK AS REQUIRED TO INSTALL DIFFUSER IN EXISTING LOCATION.
- ② REMOVE EXISTING CHWSAR PIPING INSULATION AS INDICATED. REINSULATE AND SEAL PER SPECIFICATIONS.

**RENOVATIONS**

➔	POINT OF CONNECTION FROM NEW TO EXISTING
□	ITEM TO REMAIN
⊠	ITEM TO BE REMOVED

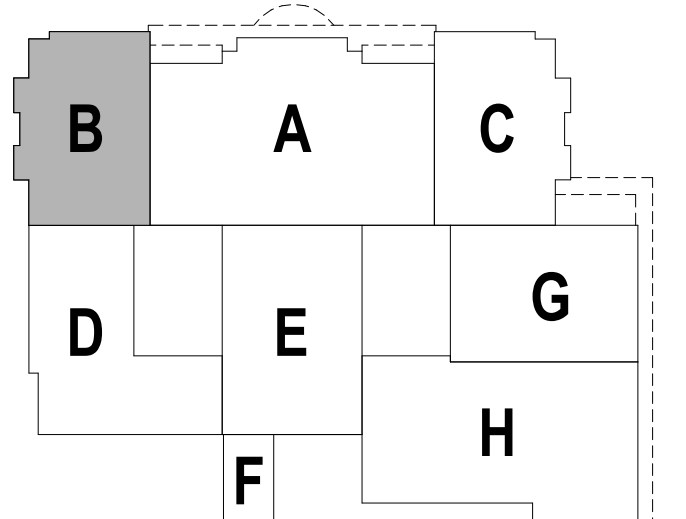
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CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED POWER GENERATING EQUIPMENT.



**1 MECHANICAL FLOOR PLAN - LEVEL 1 - AREA B**  
 Scale: 1/8" = 1'-0"

**KEY PLAN:**



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFISD PROJECT NO: 24-02-5750-R-RFP

T. ADDENDUM #2	01/16/25	Revisions / Submission
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Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: ER

MECHANICAL FIRST FLOOR PLAN - AREA 'B'

M2.02



**Salas O'Brien**  
 salesobrien.com 281-664-1900  
 Houston 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-4111  
 Project No: 2024-00211-00

**NATEX**  
 CORPORATION  
 ARCHITECTS  
 www.natearchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
 Fax: 713-780-7824

**Coleman Partners**  
 ARCHITECTS  
 3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
 tel: 832.947.1038 fax: 281.214.5365

**BID DOCUMENTS**

*Bradley Kalmans*  
 BRADLEY KALMANS  
 80219  
 01/16/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
 21020 PARK ROW  
 KATY, TX 77449  
 tel: 281.578.9595

**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
 tel: 713.337.8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
 tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
 25317 INTERSTATE 45  
 THE WOODLANDS, TX 77380  
 tel: 281.350.2323

**LANDSCAPE**  
**LANDSCAPE GROUP**  
 17041 EL CAMINO REAL, STE 204  
 HOUSTON, TX 77058  
 tel: 281.486.4040

**RENOVATIONS**

+	POINT OF CONNECTION FROM NEW TO EXISTING
□	ITEM TO REMAIN
⊖	ITEM TO BE REMOVED

CONTRACTOR SHALL PROVIDE DEHUMIDIFICATION DURING THE CONSTRUCTION SCHEDULE. THE SCOPE IS TO MAINTAIN ACCEPTABLE HUMIDITY LEVELS WITHIN THE BUILDING. THE REMOVAL OF EXCESS HUMIDITY FROM THE AIR THROUGHOUT THE BUILDING. PROVIDE MOISTURE CONTROL RENTAL EQUIPMENT AND SOLUTION FOR PREVENTING THE LONG-TERM EFFECTS OF MOISTURE LEVEL THAT CAN DAMAGE INTERIOR BUILDING MATERIALS, BOOKS AND ELECTRONIC EQUIPMENT.

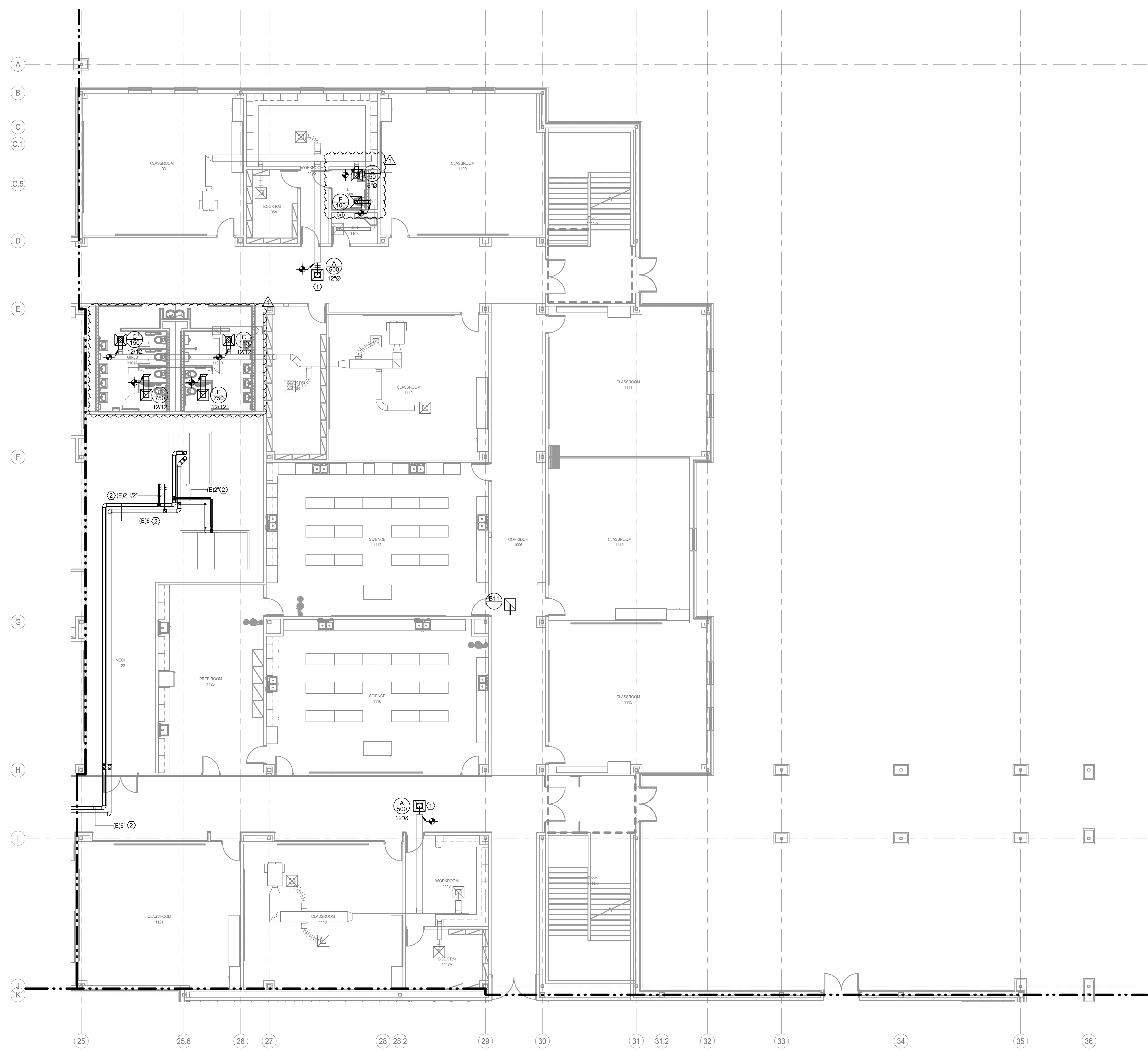
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**GENERAL NOTES:**

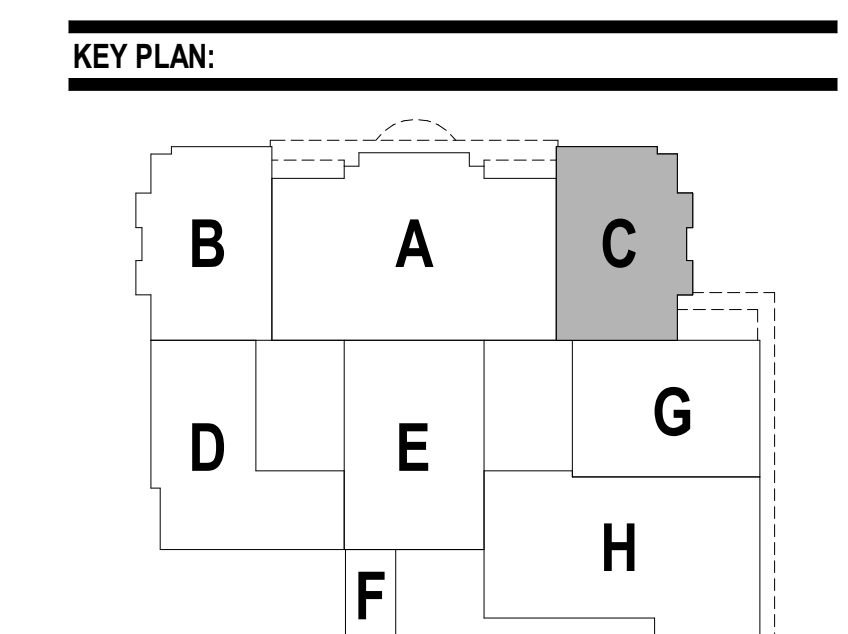
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**MECHANICAL KEYED NOTES:**

- PROVIDE ADDITIONAL FLEX DUCTWORK AS REQUIRED TO INSTALL DIFFUSER IN EXISTING LOCATION.
- REMOVE EXISTING CHWS/R PIPING INSULATION AS INDICATED, REINSULATE AND SEAL PER SPECIFICATIONS.



**1 MECHANICAL FLOOR PLAN - LEVEL 1 - AREA C**  
 Scale: 1/8" = 1'-0"



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**

**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFSD PROJECT NO: 24-02-5750-R-RFP

T. ADDENDUM #2 01/16/25  
 Revisions / Submission

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: ER

**MECHANICAL FIRST FLOOR PLAN - AREA 'C'**

**M2.03**

**Salas O'Brien**  
 salesobrien.com 281-664-1900  
 Houston 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-4111  
 Project No: 2024-0211-00

**NATEX CORPORATION ARCHITECTS**  
 www.natearchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
 Fax: 713-780-7824

**Coleman Partners ARCHITECTS**  
 www.colemanpartners.com  
 3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
 Tel: 832.947.1038 Fax: 281.214.5365

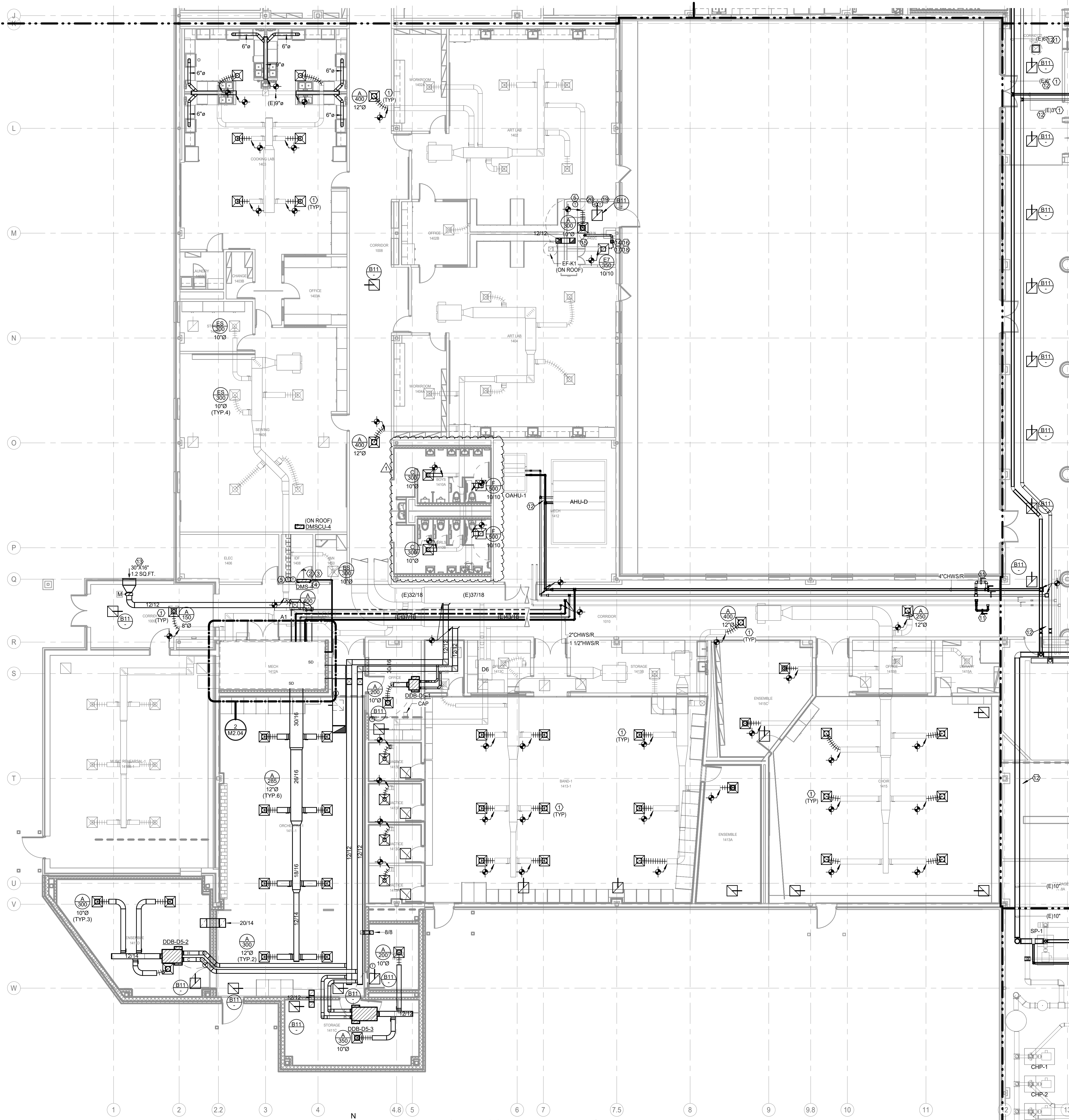
**BID DOCUMENTS**  
 BRADLEY KALMANS  
 80219  
 01/16/2025  
 CIVIL ENGINEER  
**BROOKS AND SPARKS, INC.**  
 21020 PARK ROW  
 KATY, TX 77449  
 Tel: 281.578.9595

**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
 Tel: 713.337.8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
 Tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
 25317 INTERSTATE 45  
 THE WOODLANDS, TX 77380  
 Tel: 281.350.2323

**LANDSCAPE**  
**LANDSCAPE GROUP**  
 17041 EL CAMINO REAL, STE 204  
 HOUSTON, TX 77058  
 Tel: 281.486.4040

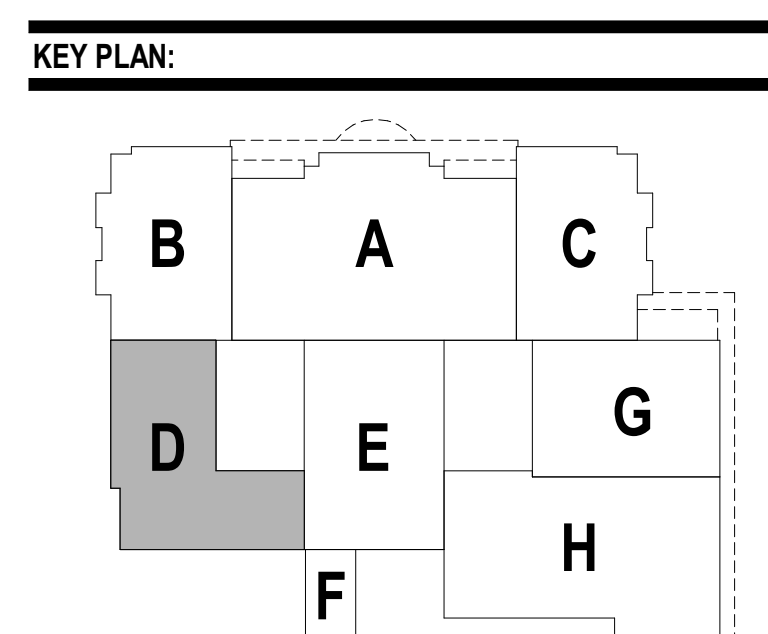
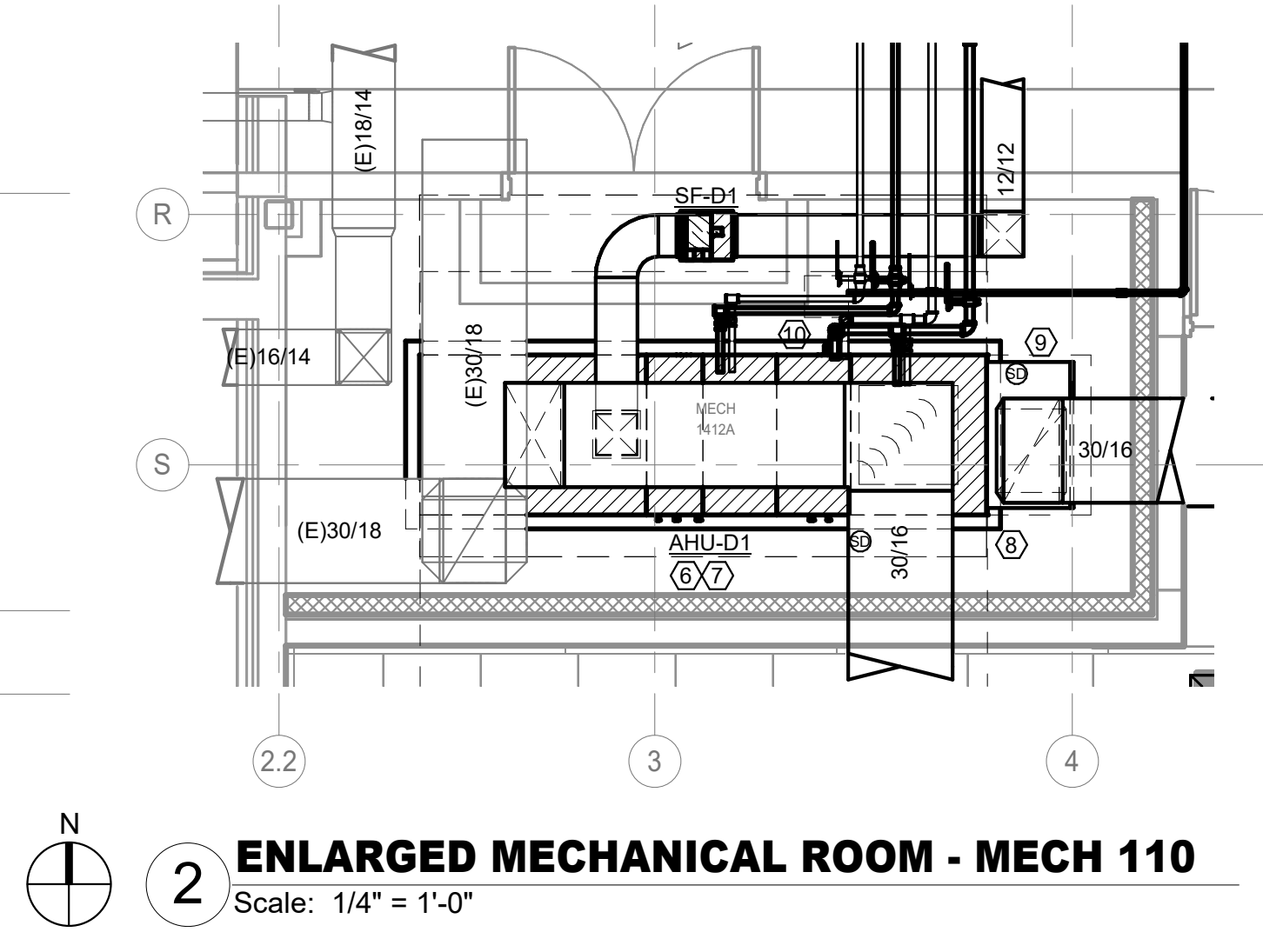


**RENOVATIONS**

- POINT OF CONNECTION FROM NEW TO EXISTING
- ITEM TO REMAIN
- ITEM TO BE REMOVED

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- PROVIDE ADDITIONAL FLEX DUCTWORK AS REQUIRED TO INSTALL DIFFUSER IN EXISTING LOCATION.
  - PROVIDE REQUIRED CLEARANCES FOR PROPER MAINTENANCE AND OPERATION.
  - PROVIDE REFRIGERANT LINES TO ASSOCIATED AIR COOLED CONDENSING UNIT ON ROOF. SIZE PER MANUFACTURER'S RECOMMENDATIONS.
  - ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO FLOOR DRAIN LOCATED IN MECH 1412.
  - PROVIDE BMCS MONITORING TEMPERATURE SENSOR AS INDICATED.
  - VERIFY SERVICE CLEARANCE FOR AIR FILTER REMOVAL WITH EQUIPMENT MANUFACTURER. COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
  - VERIFY SERVICE CLEARANCE FOR FAN SHAFT AND COIL REMOVAL WITH EQUIPMENT MANUFACTURER.
  - COORDINATE WITH ALL TRADES NOT TO OBSTRUCT.
  - PROVIDE 4" THICK CONCRETE HOUSEKEEPING PAD.
  - SHEET METAL PLENUM, FULL SIZE OF UNIT RETURN AIR OPENING. LENGTH AS REQUIRED FOR ALL DUCT CONNECTIONS SHOWN.
  - ROUTE FULL SIZE CONDENSATE DRAIN PIPE TO FLOOR DRAIN. REFER TO PLOORING DRAWINGS FOR EXACT LOCATION OF FLOOR DRAIN.
  - PROVIDE NEW BYPASS PIPING AND VALVES AS SHOWN TO ALLOW FOR ISOLATING THE NEW PIPING FROM THE EXISTING HYDRONIC LOOPS. TESTING, FLUSHING, AND TREATMENT OF NEW PIPING SHALL BE PERFORMED PRIOR TO OPENING THE NEW PIPING TO THE EXISTING HYDRONIC LOOPS. PURIGERTE OR COMPARABLE COMPANY SHALL PROVIDE ASSISTANCE TO THE MECHANICAL CONTRACTOR TO CONFIRM FLUSHING AND CLEANING AT DESIGN SYSTEM FLOW RATES. CHEMICAL TREATMENT MANUFACTURER SHALL TEST WATER TO CONFIRM COMPLIANCE OF FLUSHING AND TREATMENT OF WATER PRIOR TO OPENING THE NEW PIPING VALVES TO THE EXISTING HYDRONIC LOOP.
  - REMOVE EXISTING CHWS&R PIPING INSULATION AS INDICATED, REINSULATE AND SEAL PER SPECIFICATIONS.
  - PROVIDE WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER RUSKIN MODEL EME520MD OR APPROVED EQUAL AND MINIMUM FREE AREA AS NOTED. PROVIDE WITH BIRD SCREEN AND PAINT TO MATCH WALL OR AS SPECIFIED BY ARCHITECT.
  - ROUTE KILN ALUMINUM DUCTWORK DOWN ALONG WALL TO 24" A.F.F FOR CONNECTION TO KILN FUME FAN. REFER TO DETAIL.
  - ROUTE FAN DISCHARGE DUCT AS SHOWN UP TO GOOSENECK ON ROOF. REFER TO GOOSENECK DETAIL.
  - MOUNT KILN FAN TO WALL. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - KILN VENTILATION SHALL BE ENVIROVENT 2 BY SKUTT. PROVIDE KILN WITH ENVIROLINK CONTROLLER AND ALL WIRES WITH SUFFICIENT LENGTH TO MAKE ALL CONNECTIONS AS PER MANUFACTURER RECOMMENDATIONS.
  - PROVIDE ALUMINUM FLEX TO CONNECT KILN ALUMINUM DUCT WITH KILN FAN.
  - THERMOSTAT SHALL BE SET TO 80°F (ADJUSTABLE).
  - PROVIDE HEAT DETECTOR, INTERLOCK WITH KILN TO SHUT OFF POWER SOURCE AT 135°F (ADJUSTABLE). MOUNT HEAT DETECTOR ON CEILING AT LOCATION SHOWN.



2024 ANTHONY, HOPPER & KAHLA RENOVATIONS  
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 CFSID PROJECT NO: 24-02-5750-R-RFP

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: ER

**MECHANICAL FIRST FLOOR PLAN - AREA 'D'**  
**M2.04**



**Salas O'Brien**  
 salesobrien.com 281-664-1900  
 Houston  
 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-4111  
 Project No: 2024-00211-00

**NATEX**  
 CORPORATION  
 ARCHITECTS  
 www.natexarchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
 Fax: 713-780-7824

**Coleman Partners**  
 ARCHITECTS  
 www.colemanpartners.com  
 3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
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**RENOVATIONS**

	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
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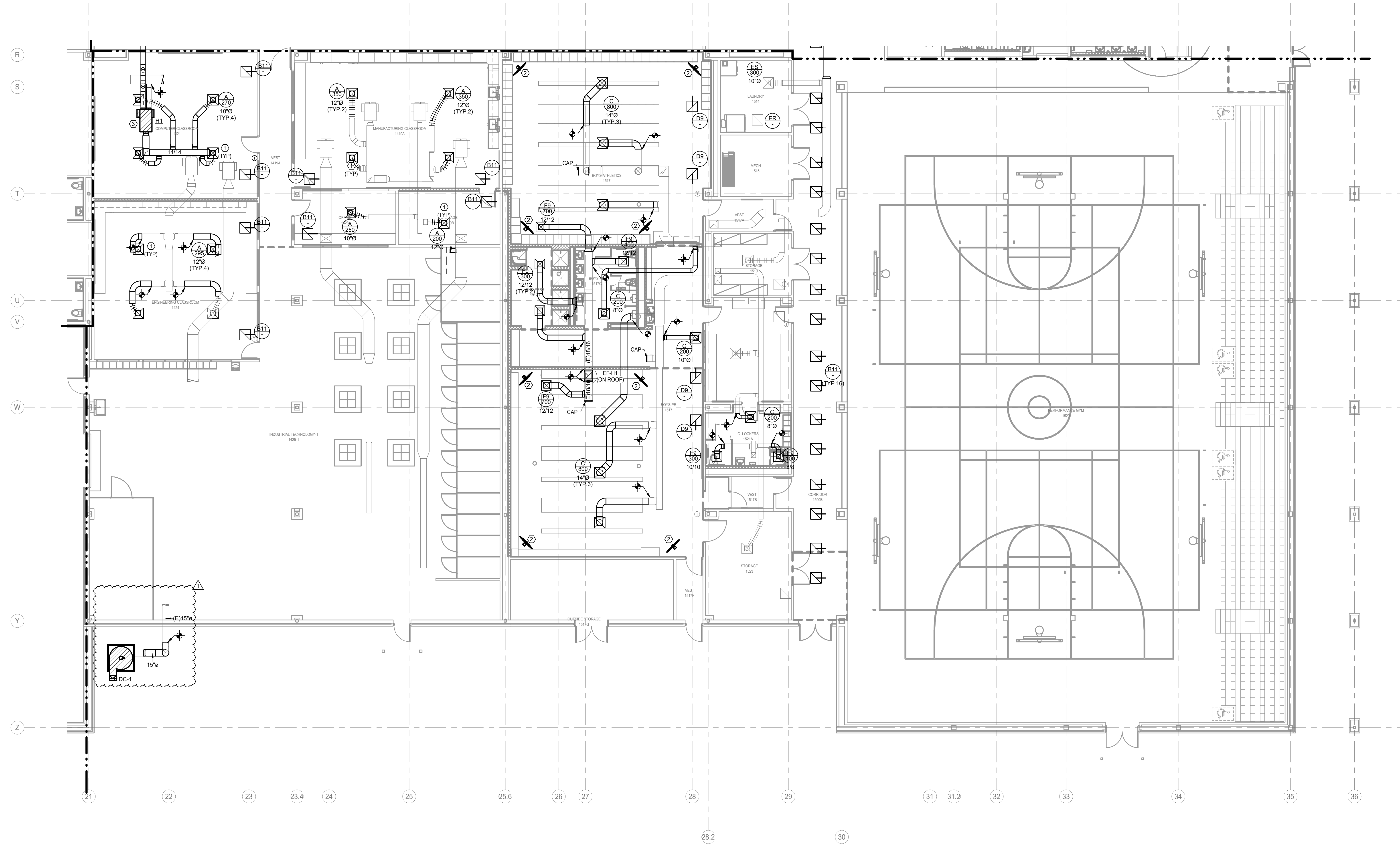
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**GENERAL NOTES:**

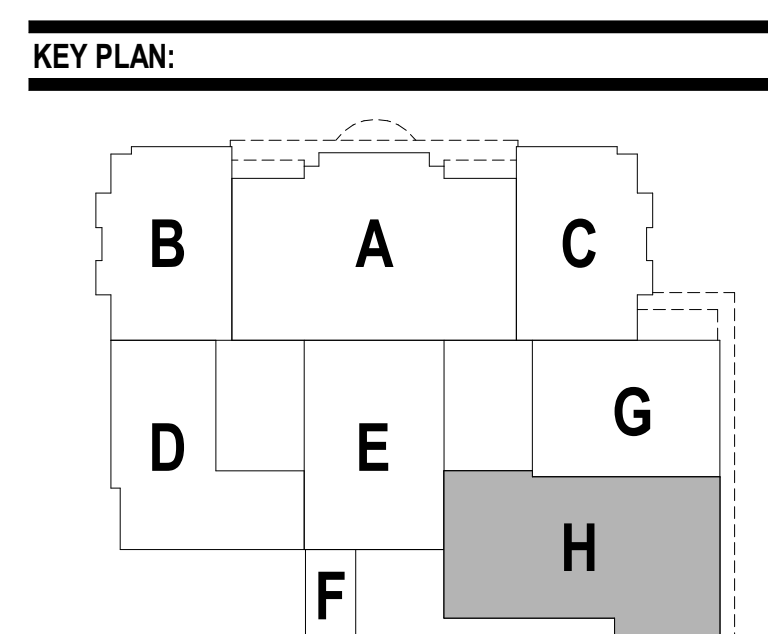
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**MECHANICAL KEYED NOTES:**

- PROVIDE ADDITIONAL FLEX DUCTWORK AS REQUIRED TO INSTALL DIFFUSER IN EXISTING LOCATION.
- PROVIDE OSCILLATING FAN PER SPECIFICATIONS.
- NEW DUAL DUCT BOX. PROVIDE REQUIRED CLEARANCES FOR PROPER MAINTENANCE AND OPERATION.



**1 MECHANICAL FLOOR PLAN - LEVEL 1 - AREA H**  
 Scale: 1/8" = 1'-0"



**BID DOCUMENTS**

*Bradley Kalmans*  
 BRADLEY KALMANS  
 80219 / CEN  
 01/16/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
 21020 PARK ROW  
 KATY, TX 77449  
 tel: 281.578.9595

**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
 tel: 713.337.8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
 tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
 25317 INTERSTATE 45  
 THE WOODLANDS, TX 77380  
 tel: 281.350.2323

**LANDSCAPE**  
**LANDSCAPE GROUP**  
 17041 EL CAMINO REAL, STE 204  
 HOUSTON, TX 77058  
 tel: 281.486.4040

**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFISD PROJECT NO: 24-02-5750-R-RFP

T. ADDENDUM #2 01/16/25  
 Revisions / Submission

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: ER

**MECHANICAL FIRST FLOOR PLAN - AREA 'H'**  
**M2.08**

**Salas O'Brien**  
 salasobrien.com 281-664-1900  
 Houston 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-411  
 Project No: 2024-0211-00

**NATEX**  
 CORPORATION  
 ARCHITECTS  
 www.nateearchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
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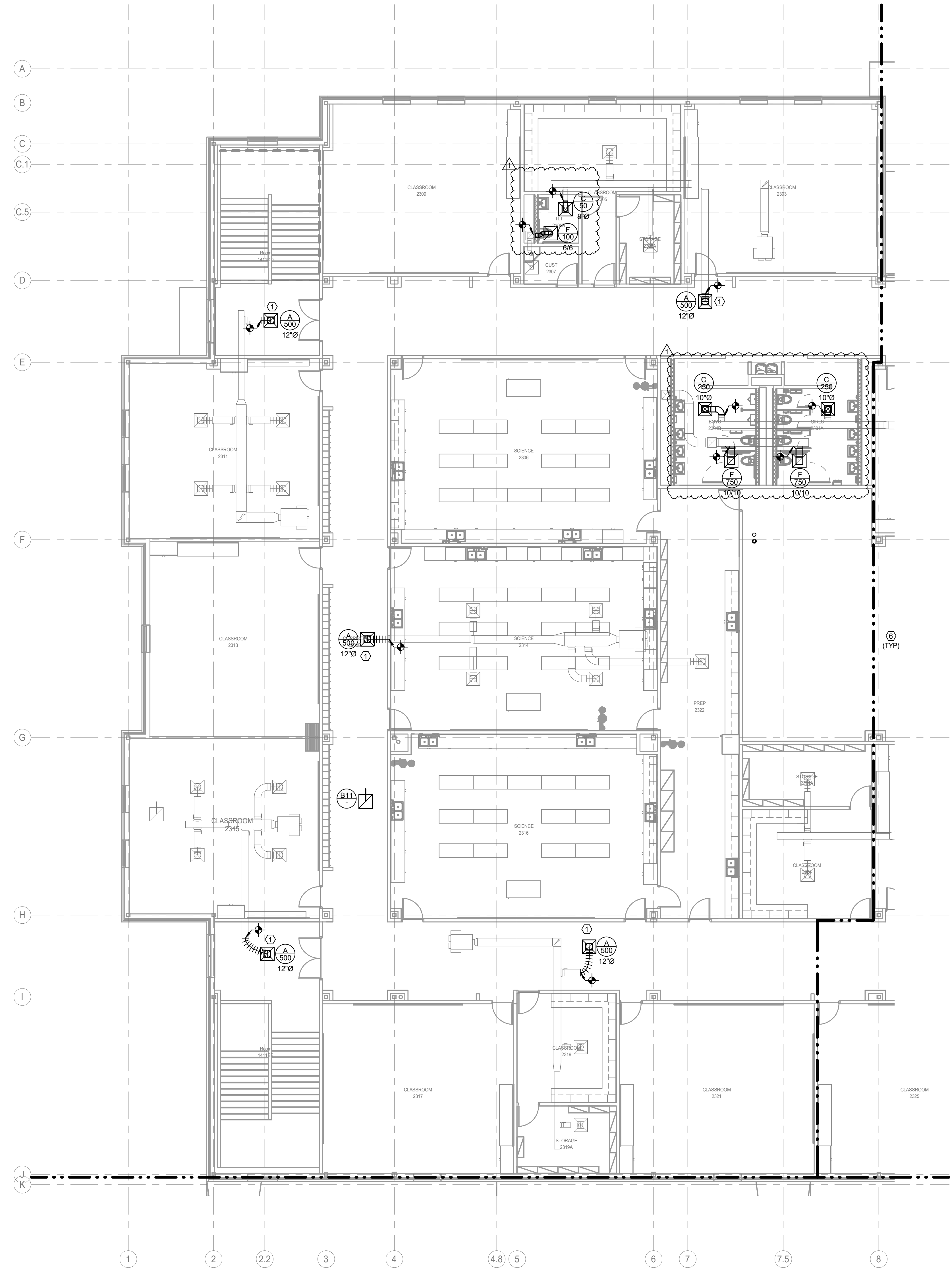
**Coleman Partners**  
 ARCHITECTS  
 @cparch.com  
 3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
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RENOVATIONS	
+	POINT OF CONNECTION FROM NEW TO EXISTING
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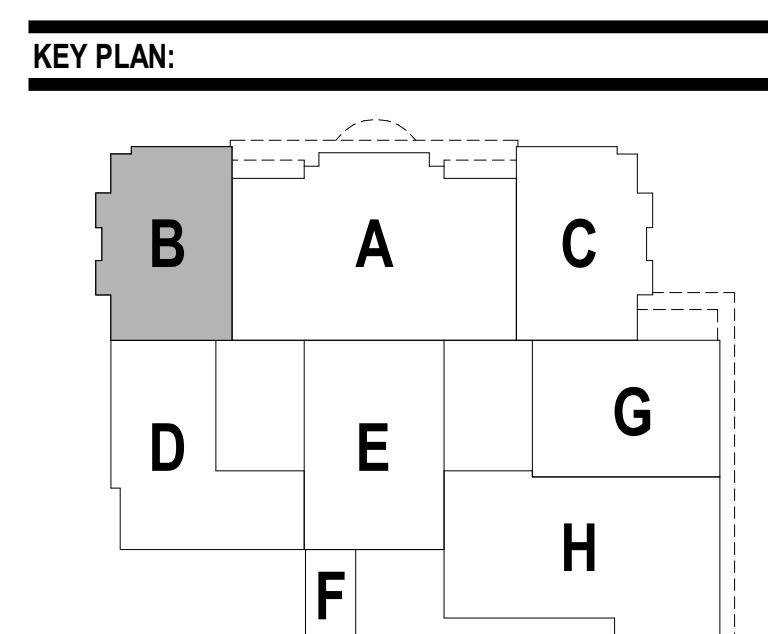
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**1 MECHANICAL FLOOR PLAN - LEVEL 2 - AREA B**  
 Scale: 1/8" = 1'-0"



**BID DOCUMENTS**

*Bradley Kalmans*  
 BRADLEY KALMANS  
 80219  
 01/16/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
 21020 PARK ROW  
 KATY, TX 77449  
 tel: 281.578.9595

**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
 tel: 713.337.8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
 tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
 25317 INTERSTATE 45  
 THE WOODLANDS, TX 77380  
 tel: 281.350.2323

**LANDSCAPE**  
**LANDSCAPE GROUP**  
 17041 EL CAMINO REAL, STE 204  
 HOUSTON, TX 77058  
 tel: 281.486.4040

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T. ADDENDUM #2 01/16/25  
 Revisions / Submission

Project Number: 23072  
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 Drawn by: ER

**MECHANICAL SECOND FLOOR PLAN - AREA 'B'**  
**M2.10**



**RENOVATIONS**

	POINT OF CONNECTION FROM NEW TO EXISTING
	ITEM TO REMAIN
	ITEM TO BE REMOVED

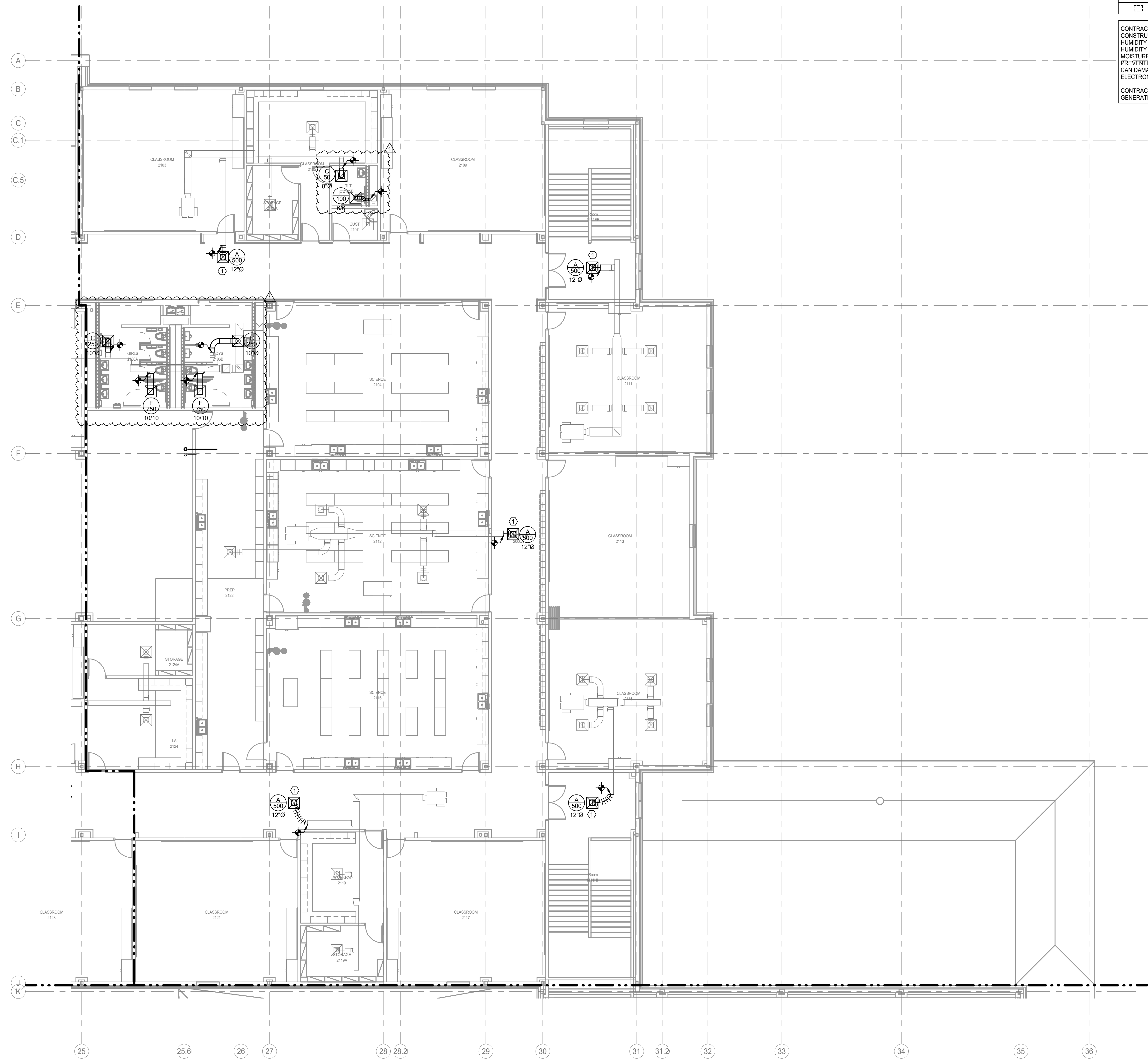
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**GENERAL NOTES:**

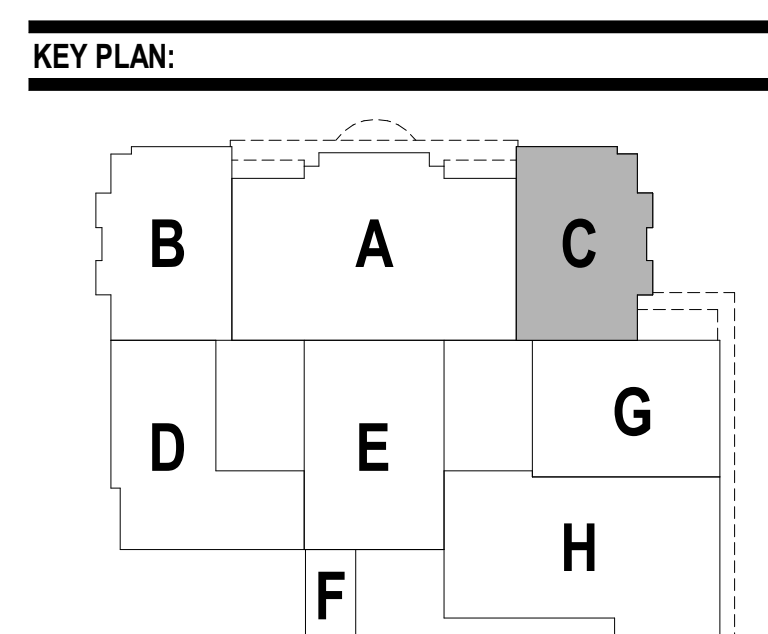
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**1 MECHANICAL FLOOR PLAN - LEVEL 2 - AREA C**  
 Scale: 1/8" = 1'-0"



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
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 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
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**M2.11**





**LINETYPE LEGEND**

---	EXISTING TO REMAIN
----	DISCONNECT AND REMOVE
---	NEW WORK

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED/UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL.

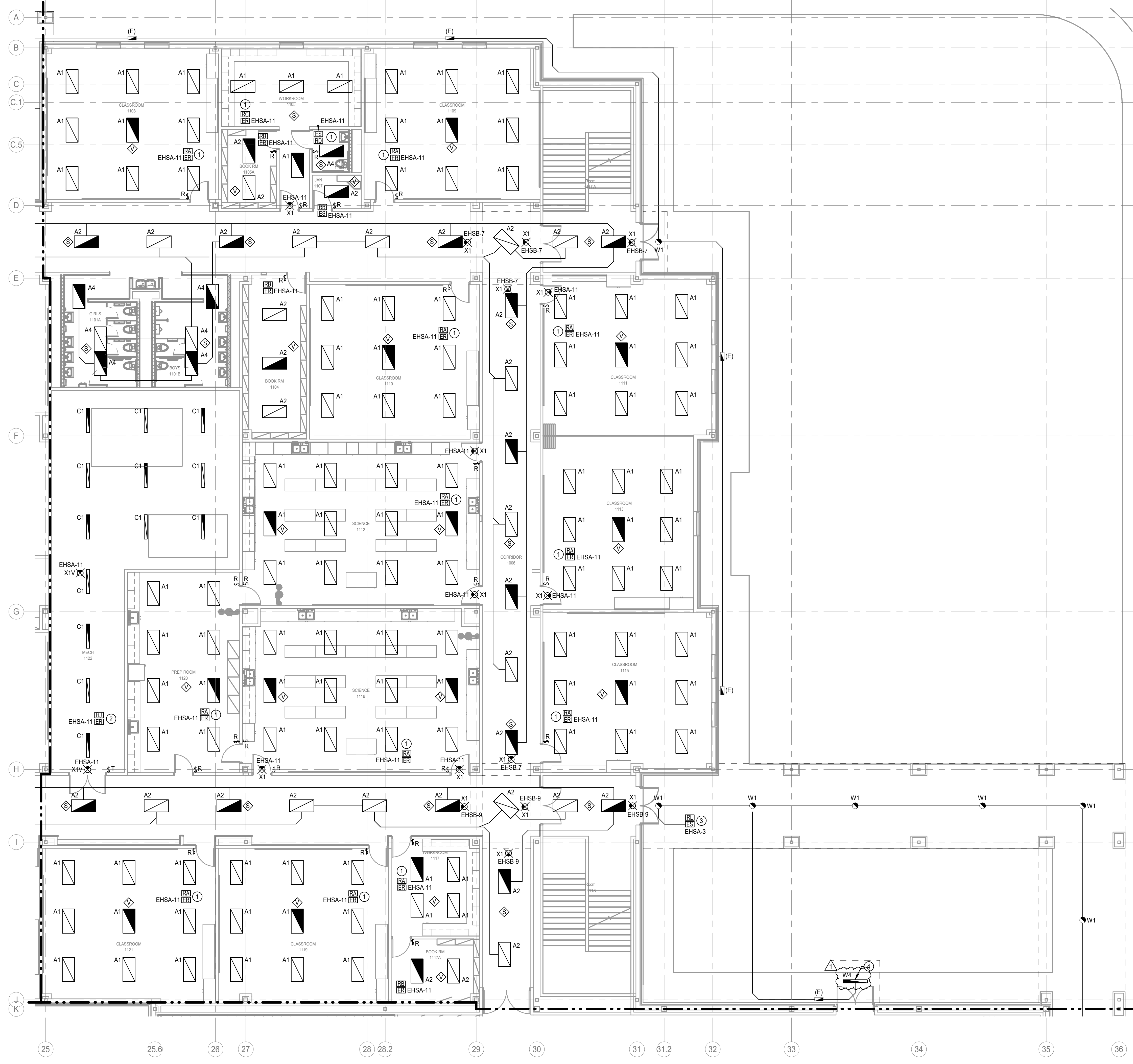
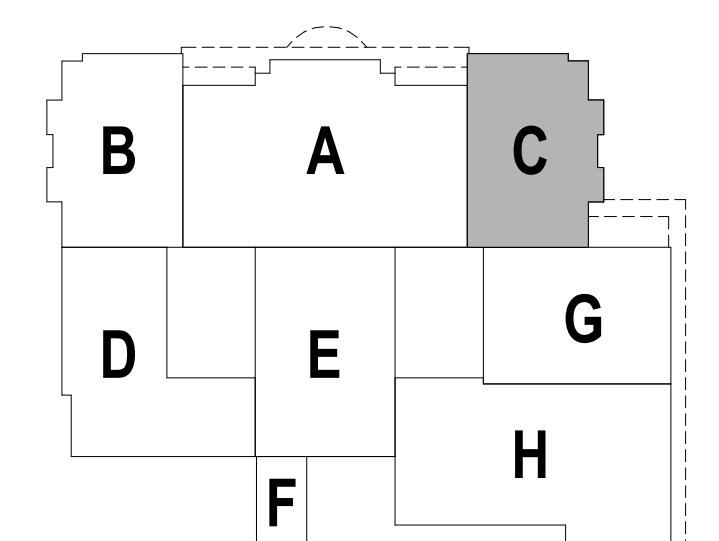
**LIGHTING GENERAL NOTES**

- CONNECT NEW LIGHT FIXTURES TO EXISTING NORMAL POWER CIRCUITS LEFT IN PLACE AFTER DEMOLITION OR NEW AS SHOWN. PROVIDE EMERGENCY CIRCUIT FOR MATCHED FIXTURES AND/OR EXIT SIGNS. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT TO EXISTING LOCATION AND/OR NEW FIXTURES. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 8000 W @ 277V. TYPICAL.
- LOCATION OF NEW REPLACEMENT LIGHT FIXTURES SHALL RE-USE EXISTING J-BOX AND EXISTING LIGHT FIXTURE WHIPS AS PRACTICAL. EXTEND WIRING WITH MATCHING CONDUCTORS/CONDUIT AND PROVIDE NEW J-BOX ABOVE ACCESSIBLE CEILING WITH 1/2" HIGH FLEXIBLE STEEL CONDUIT OR STEEL MC CABLE. LENGTH NOT TO EXCEED 6-FEET. "DAISY CHAINING" LIGHT FIXTURES INSTALLED FOR LAY-IN CEILING AREAS IS NOT ALLOWED. FOR NON-ACCESSIBLE CEILING, LIGHT FIXTURE WHIPS SHALL BE 1/2" HIGH FLEXIBLE STEEL CONDUIT. LENGTH AS REQUIRED TO MAKE A TAP AT AN ACCESSIBLE J-BOX. RECESSED LIGHT FIXTURES IN NON-ACCESSIBLE CEILING AREAS MAY BE DAISY CHAINED USING THE LIGHT FIXTURE'S INTEGRAL UL LISTED J-BOX OR INTERNAL WIRE WAY THAT IS ACCESSIBLE THROUGH FIXTURE FROM BELOW THE CEILING. REFER TO 26 05 33 CONDUIT SYSTEMS.
- PROVIDE NEW LIGHTING CONTROLS, SENSORS AND ASSOCIATED DEVICES. 20A EMERGENCY LOAD CONTROL RELAY, TRANSFER SWITCHES. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
- LOCATE DIGITAL LIGHTING CONTROLLER AND/OR EMERGENCY LOAD CONTROL RELAY ABOVE ACCESSIBLE CEILING 12" FEET AFT OR BELOW ADJACENT TO SWITCH CONTROLLING THE SPACE. IN NON-ACCESSIBLE AND/OR HIGH CEILING AREAS, LOCATE DIGITAL LIGHTING CONTROLLER IN ADJACENT ANGLIARY AREA WITH ACCESSIBLE CEILING. IN AREAS WITH NO CEILING AND/OR IN EXTERIOR APPLICATIONS LOCATE ADJACENT TO PANEL SERVING THE LOAD. PROVIDE PLASTIC TAPE MACHINE TYPED NAME PLATE TO BOTTOM OF CEILING T-GRID. BELOW RELAY LOCATION, WRITE LETTERS ON BLACK BACKGROUND WITH 1/4" HIGH LETTERS ON 1/2" TALL LABEL FOR DIGITAL MODULE. INDICATE AS: DLM.
- LOCATE DIGITAL LIGHTING CONTROLLER FOR HIGH CEILING CORRIDORS, GYM AND OTHER HIGH CEILING AREAS WITH NO ADJACENT ANGLIARY AREA ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. PROVIDE LABEL WITH WORDING PER SPECIFICATIONS.
- LOCATE DIGITAL LIGHTING CONTROLLER FOR INSTRUCTIONAL SPACES AND OFFICES ABOVE ACCESSIBLE CEILING IN CORRIDOR DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE. GRID MARKERS WITH WORDING PER SPECIFICATIONS.
- OCCUPANCY/VACANCY SENSOR AND DAYLIGHTING SENSOR LOCATIONS INDICATE SPACE OR AREA CONTROLLED. CONTRACTOR TO PROVIDE ACTUAL QUANTITIES, TYPES, AND MOUNTING LOCATIONS AS RECOMMENDED BY MANUFACTURER AND IECQ-2015 C486.
- SPACES WITH MULTIPLE OCCUPANCY/VACANCY SENSORS OR WHERE LINE OF SIGHT MAY BE OBSCURED, SHALL BE LINKED TOGETHER FOR SIMULTANEOUS OPERATION WITHIN THE SPACE.
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- COORDINATE LOCATION OF LIGHT FIXTURES IN ALL MECHANICAL AND ELECTRICAL ROOMS WITH MECHANICAL EQUIPMENT, PIPING, AND ALL OTHER TRADES.
- PROVIDE SEPARATE RACEWAY SYSTEMS FOR LIGHTING CONTROL SYSTEM CONTROLS WIRING (DIMMERS OR OTHERWISE) SHALL NOT BE INSTALLED IN THE SAME RACEWAY AS LINE VOLTAGE. REFER TO 26 05 33.

**ELECTRICAL KEYED NOTES**

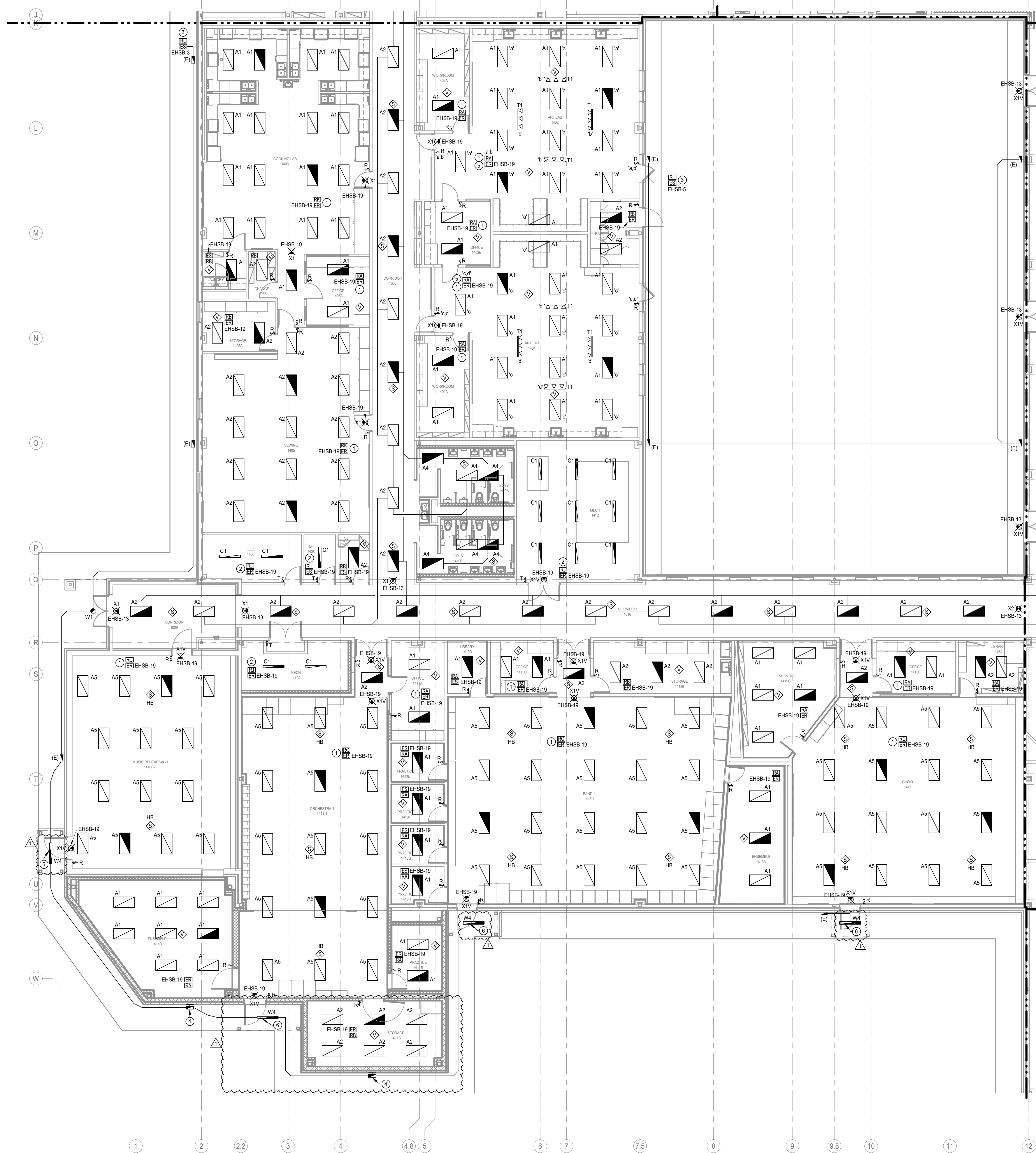
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- INTERCEPT EXISTING NORMAL POWER CIRCUIT HOME RUN AND PROVIDE PER CIRCUIT (1) LISTED UL 1008 TRANSFER SWITCH (1) CONTACTOR WITH POLE QUANTITY AS REQUIRED CONTROLLED WITH BMCS. LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. RE-USE EXISTING NORMAL POWER CIRCUIT AND NEW EMERGENCY POWER CIRCUIT AS SHOWN. EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
- DO NOT PENETRATE TOP OF CANOPY.

**KEY PLAN:**



**1 ELECTRICAL LIGHTING 1ST FLOOR - AREA C**  
 Scale: 1/8" = 1'-0"





**1 ELECTRICAL LIGHTING 1ST FLOOR - AREA D**  
Scale: 1/8" = 1'-0"

**Salas O'Brien**  
salasobrien.com 281-664-1900  
Houston 16930 W. Sam Houston Pkwy North, Suite 900  
Houston, TX 77064  
Registration: F-4111  
Project No: 2024-00211-00

**LINETYPE LEGEND**

---	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
---	NEW WORK

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

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PROVIDE (1) MOMENTARY BMCS OVERRIDE TIME-OUT SWITCH FOR BUILDING OCCUPIED UNOCCUPIED ADJACENT TO OR IN THE BMCS MASTER PANEL.

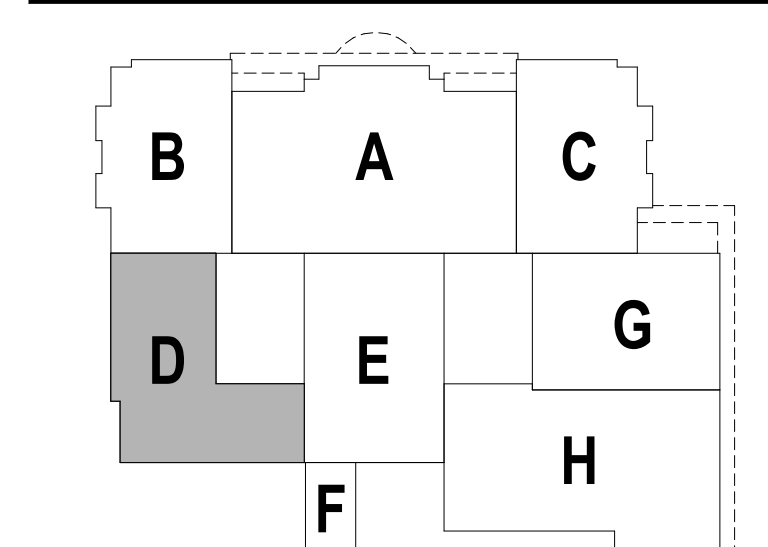
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- PROVIDE 120 V REVERSE-PHASE DIMMING FOR TRACK LIGHTING.
- DO NOT PENETRATE TOP OF CANOPY.

**KEY PLAN:**

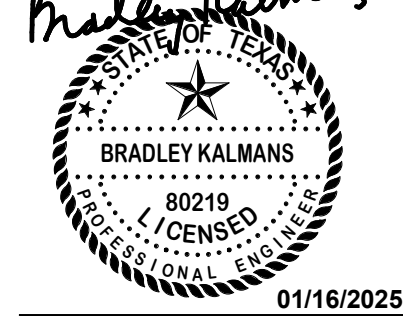


**NATEX CORPORATION ARCHITECTS**  
www.natearchitects.com  
447 Heights Boulevard  
Houston, TX 77007  
Phone: 713-975-9525  
Fax: 713-780-7824



**Coleman Partners ARCHITECTS**  
3701 Kirby Drive, Suite 830  
Houston, TX 77098  
tel: 832.947.1038 fax: 282.214.5365

**BID DOCUMENTS**



**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
21020 PARK ROW  
KATY, TX 77449  
tel: 281.578.9595

**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
9800 RICHMOND AVE.  
SUITE 400  
HOUSTON, TX 77042  
tel: 713.337.8881

**MEP ENGINEER**  
**SALAS O'BRIEN**  
16930 W. SAM HOUSTON PKWY. N.  
SUITE 900  
HOUSTON, TX 77064  
tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
25317 INTERSTATE 45  
THE WOODLANDS, TX 77380  
tel: 281.350.2323

**LANDSCAPE**  
**LANDSCAPE GROUP**  
17041 EL CAMINO REAL, STE 204  
HOUSTON, TX 77058  
tel: 281.486.4040

**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
CFISD PROJECT NO: 24-02-5750-R-RFP

Revisions / Submissions

1.	ADDENDUM #2	01/16/2025
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Project Number: 23072  
Date: 29 DECEMBER 2024  
Drawn by: LT

**ELECTRICAL LIGHTING**  
**1ST FLOOR - AREA 'D'**

**E2.04**

**Salas O'Brien**  
 salesobrien.com 281-664-1900  
 Houston  
 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-4111  
 Project No: 2024-00211-00

**NATEX**  
 CORPORATION  
 ARCHITECTS  
 www.nateearchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
 Fax: 713-780-7824

**Coleman Partners**  
 ARCHITECTS  
 cpa.com  
 3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
 Tel: 832.947.1038 Fax: 281.214.5365

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 01/16/2025

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 Tel: 281.578.9595

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 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
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**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
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**LINETYPE LEGEND**

---	EXISTING TO REMAIN
----	DISCONNECT AND REMOVE
—	NEW WORK

PROVIDE NEW LIGHTING DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

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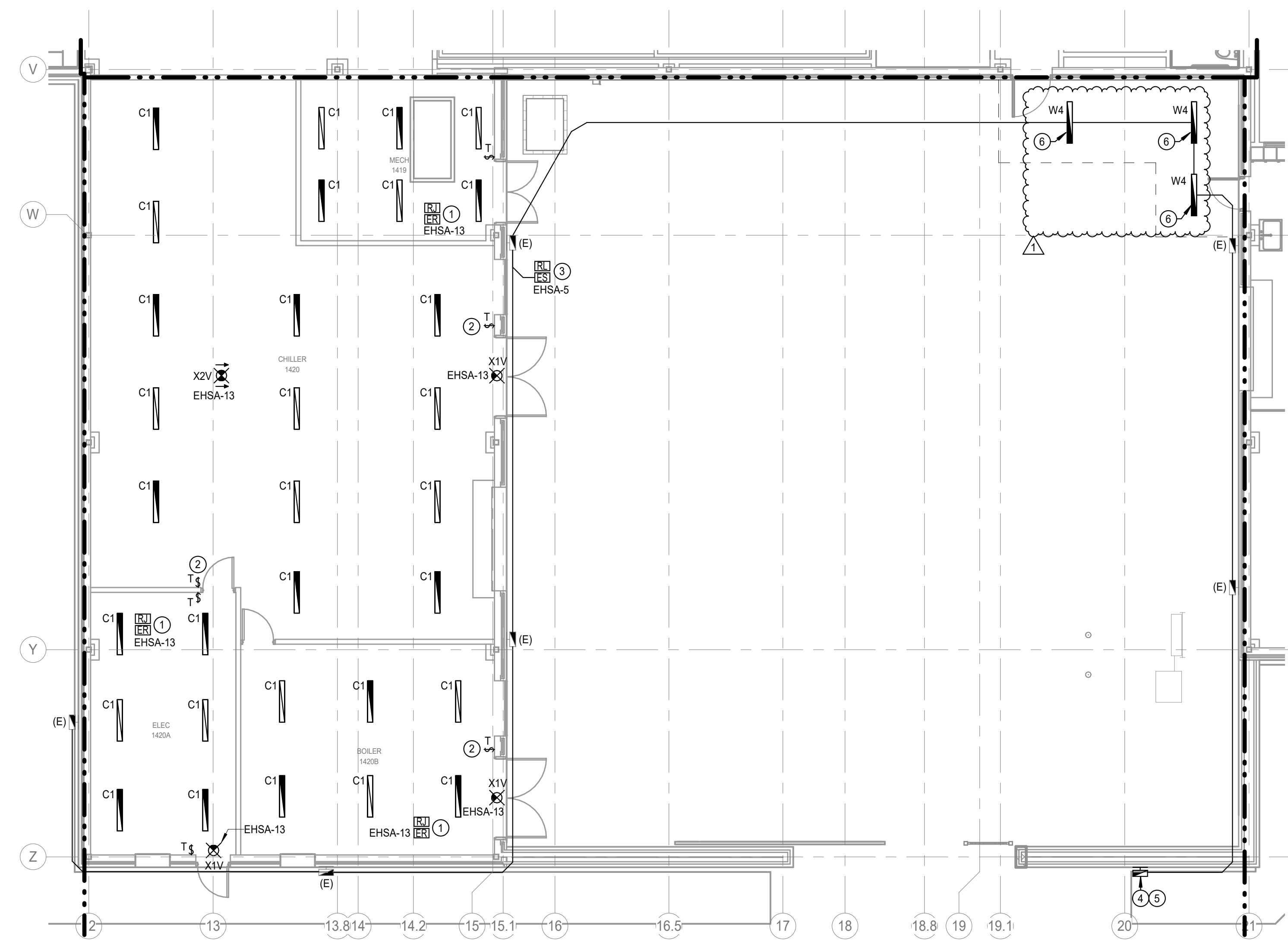
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- INTERCONNECT TIMER SWITCHES FOR SIMULTANEOUS OPERATION
- INTERCEPT EXISTING NORMAL POWER CIRCUIT HOME RUN AND PROVIDE PER CIRCUIT (1) LISTED UL1008 TRANSFER SWITCH, (1) CONTACTOR WITH POLE QUANTITY AS REQUIRED CONTROLLED WITH BMCS. LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD, RE-USE EXISTING NORMAL POWER CIRCUIT AND NEW EMERGENCY POWER CIRCUIT AS SHOWN. EXTEND CONDUCTORS/ CONDUIT WITH MATCHING SIZE. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
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**1 ELECTRICAL LIGHTING 1ST FLOOR - AREA F**  
 Scale: 1/8" = 1'-0"

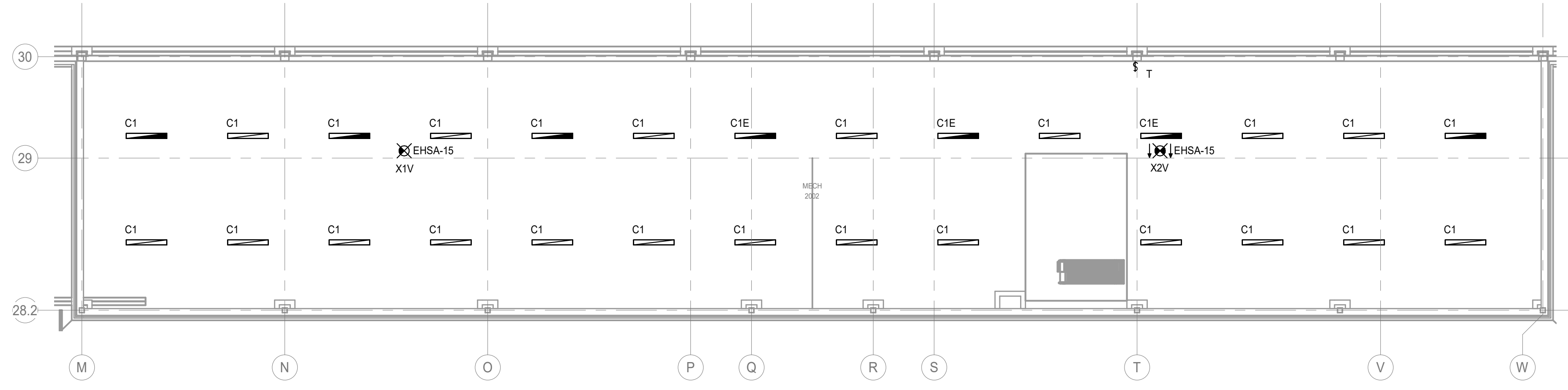
**KEY PLAN:**

**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFISD PROJECT NO: 24-02-5750-R-RFP

ADDENDUM #2 01/16/25  
 Revisions / Submission

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: LT

**ELECTRICAL LIGHTING**  
**1ST FLOOR - AREA 'F'**  
**E2.06**



**2 ELECTRICAL LIGHTING - MECH 202**  
Scale: 1/8" = 1'-0"

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**LINETYPE LEGEND**

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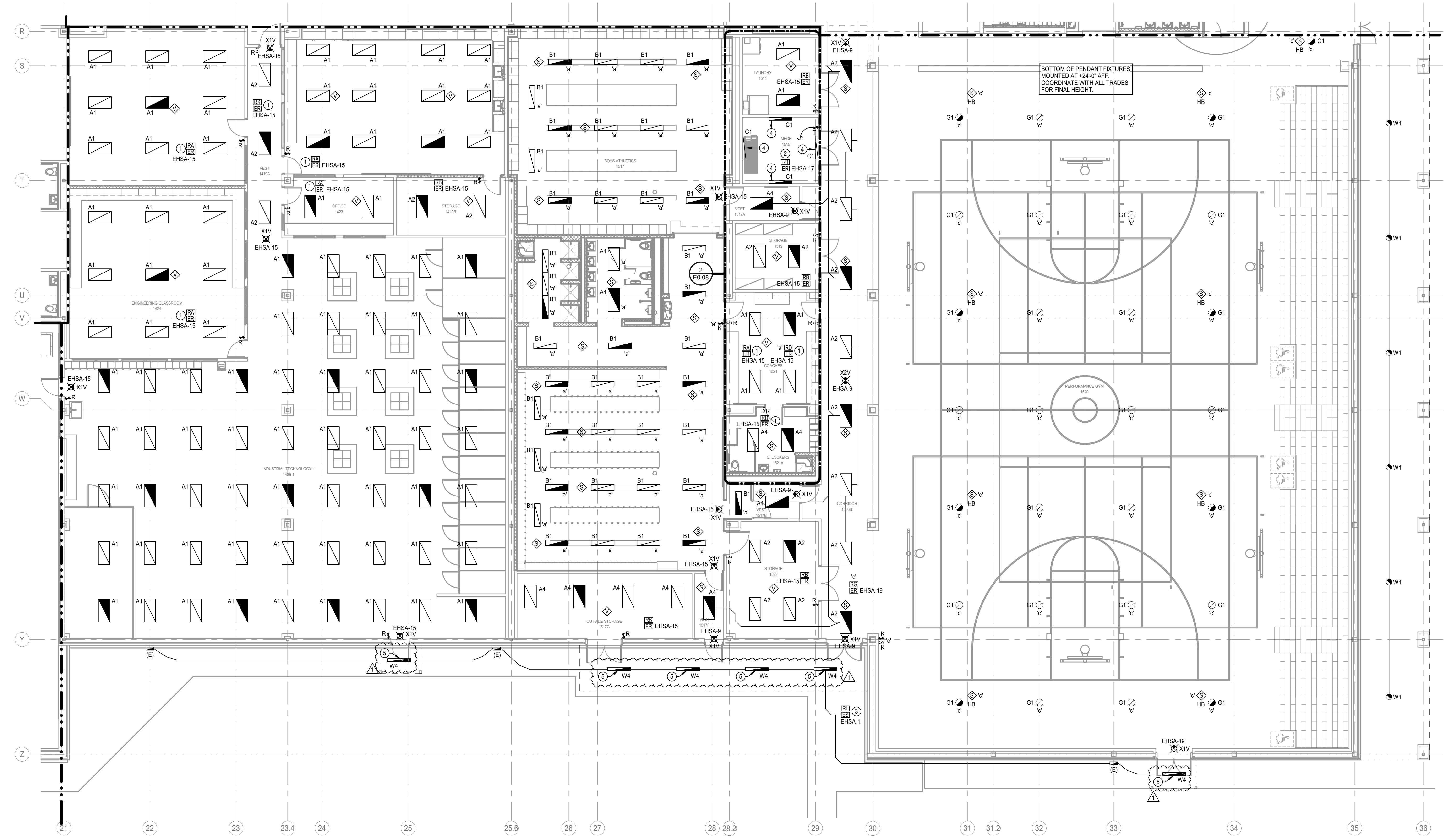
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- LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH ABOVE ACCESSIBLE CEILING IN CORRIDOR / ANCILLARY SPACE DIRECTLY OUTSIDE OF ENTRY DOOR. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE. GRID MARKERS WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
- LOCATE DIGITAL LIGHTING CONTROLLER AND IF SHOWN, PLENUM RATED, EMERGENCY LOAD CONTROL RELAY / TRANSFER SWITCH WALL MOUNTED ADJACENT TO NORMAL POWER PANEL. PROVIDE LABEL IDENTIFYING ASSOCIATED SPACE WITH WORDING PER SPECIFICATIONS. REFER TO DETAILS.
- INTERCEPT EXISTING NORMAL POWER CIRCUIT HOME RUN AND PROVIDE PER CIRCUIT (1) LISTED UL1008 TRANSFER SWITCH, (1) CONTACTOR WITH POLE QUANTITY AS REQUIRED CONTROLLED WITH BMCS. LOCATE ADJACENT TO NORMAL POWER PANEL SERVING THE LOAD. RE-USE EXISTING NORMAL POWER CIRCUIT AND NEW EMERGENCY POWER CIRCUIT AS SHOWN. EXTEND CONDUCTORS 1 CONDUIT WITH MATCHING SIZE. REFER TO SPECIFICATIONS AND DETAIL SHEETS.
- WALL MOUNTED.
- DO NOT PENETRATE TOP OF CANOPY.



**1 ELECTRICAL LIGHTING 1ST FLOOR - AREA H**  
Scale: 1/8" = 1'-0"

**Salas O'Brien**  
salasobrien.com 281-664-1900  
Houston, TX 77064  
10930 W. Sam Houston Pkwy North, Suite 900  
Houston, TX 77064  
Registration: F-4111  
Project No: 2024-0211-00

**NATEX CORPORATION ARCHITECTS**  
www.natesearchitects.com  
447 Heights Boulevard  
Houston, TX 77007  
Phone: 713-975-9525  
Fax: 713-780-7824

**Coleman Partners ARCHITECTS**  
cpa.com

3701 Kirby Drive, Suite 830  
Houston, TX 77098  
Tel: 832-947-1038 Fax: 282-214-5365

**BID DOCUMENTS**  
BRADLEY KALMANS  
80219  
CENTRAL TEXAS  
01/16/2025

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
21020 PARK ROW  
KATY, TX 77449  
tel: 281-578-9595

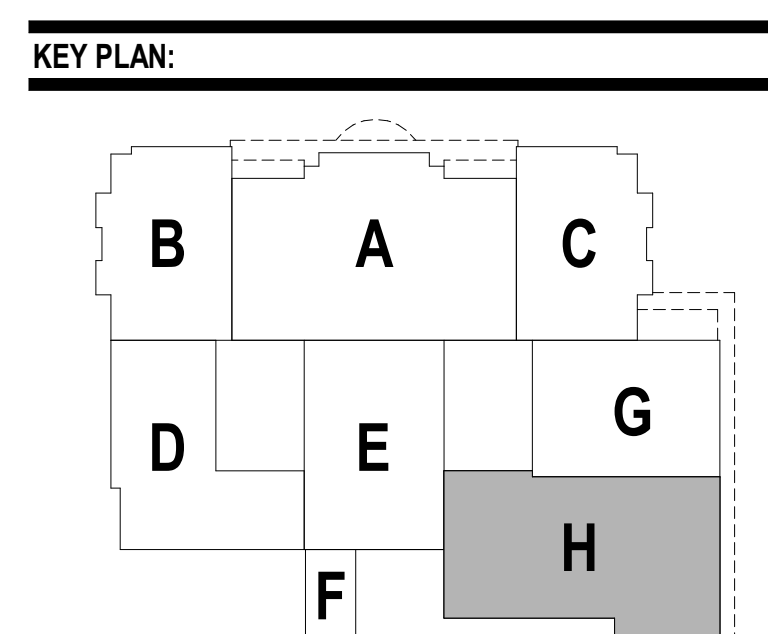
**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
9800 RICHMOND AVE.  
SUITE 400  
HOUSTON, TX 77042  
tel: 713-337-8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
10930 W. SAM HOUSTON PKWY. N.  
SUITE 900  
HOUSTON, TX 77064  
tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
25317 INTERSTATE 45  
THE WOODLANDS, TX 77380  
tel: 281-350-2323

**LANDSCAPE**  
**LANDSCAPE GROUP**  
17041 EL CAMINO REAL, STE 204  
HOUSTON, TX 77058  
tel: 281-486-4040

**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
CFISD PROJECT NO: 24-02-5750-R-RFP



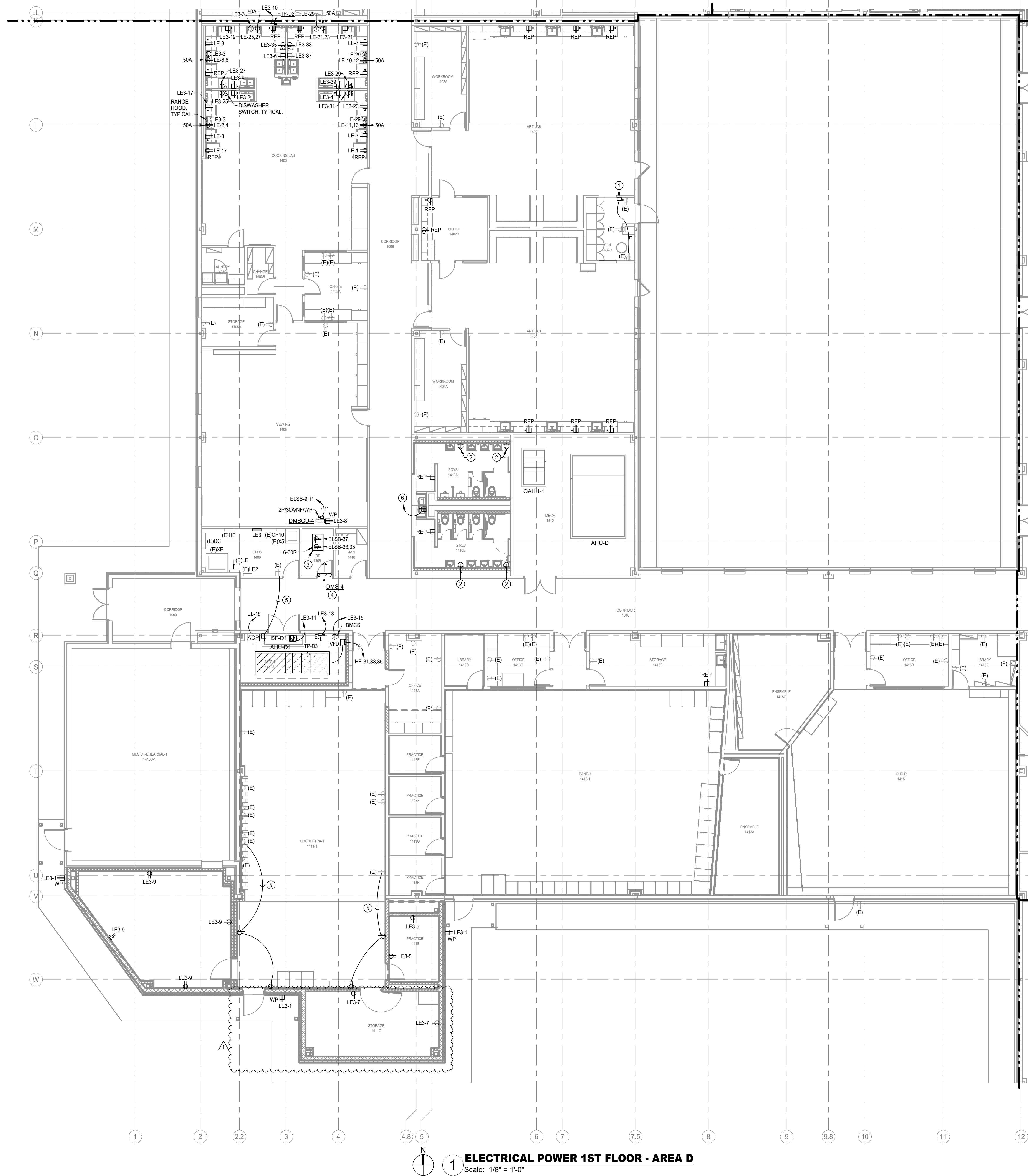
Project Number: 23072  
Date: 29 DECEMBER 2024  
Drawn by: LT

**ELECTRICAL LIGHTING**  
1ST FLOOR - AREA 'H'

**E2.08**

T. ADDENDUM #2 01/16/25  
Revisions / Submission





**1 ELECTRICAL POWER 1ST FLOOR - AREA D**  
 Scale: 1/8" = 1'-0"

**Salas O'Brien**  
 salasobrien.com 281-664-1900  
 Houston 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-4111  
 Project No: 2024-00211-00

**LINETYPE LEGEND**

---	EXISTING TO REMAIN
- - - -	DISCONNECT AND REMOVE
---	NEW WORK

PROVIDE NEW POWER DEVICES AND SWITCH BOX EXTENSIONS IN ALL AREAS WHERE GYPSUM BOARD OR OTHER WALL COVERING ADDS TO THE THICKNESS OF WALLS. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

EXISTING RACEWAYS AND LOCATION OF ELECTRICAL OUTLETS ON EXISTING WALLS TO REMAIN SHALL BE RE-USED AS PRACTICAL FOR NEW DEVICES AS PART OF NEW WORK.

TEMPORARILY DISCONNECT AND REMOVE ALL CEILING/WALL MOUNTED ELECTRICAL AND FIRE ALARM DEVICES FOR AREAS THAT REQUIRE CEILING/WALL REMOVALS AND/OR REPLACEMENT, INCLUDING MECHANICAL, TECHNOLOGY, FIRE ALARM, FIRE SPRINKLERS AND PLUMBING SCOPE OF WORK. AFTER COMPLETION RELOCATE TO PREVIOUS LOCATION AS REQUIRED.

PROVIDE CONDUIT BUSHINGS ON ALL EXISTING LOW VOLTAGE RACEWAYS TO REMAIN AND BE RE-USED.

**POWER GENERAL NOTES**

- REFER TO TECHNOLOGY DRAWINGS, DIVISION 27 AND 28 FOR TELECOMMUNICATION PATHWAYS AND OTHER ADDITIONAL REQUIREMENTS TO BE PROVIDED AS SPECIFIED IN DIVISION 28.
- WHERE ANY NEW WALL TERMINATES AT THE SAME LOCATION AS AN EXISTING WALL MOUNTED ELECTRICAL AND TECHNOLOGY DEVICE, CONTRACTOR SHALL RELOCATE DEVICE AND EXTEND WIRING AND CONDUIT AS INSTRUCTED BY OWNER OR ITS REPRESENTATIVE.
- WHERE ANY EXISTING JUNCTION BOX AND/OR PULLBOX IS LOCATED AT A NEW NON-ACCESSIBLE CEILING AREA, CONTRACTOR SHALL RELOCATE DEVICE AND EXTEND WIRING AND CONDUIT ABOVE NEAREST ACCESSIBLE CEILING AS INSTRUCTED BY OWNER OR ITS REPRESENTATIVE. SEE ARCHITECTURAL DRAWINGS FOR AREAS AFFECTED.

**ELECTRICAL KEYED NOTES**

- CONNECT EXISTING KILN DISCONNECT SALVAGED AFTER DEMOLITION AS SHOWN. EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE TO NEW LOCATION AND MAKE FINAL CONNECTION TO EXISTING KILN RECEPTACLE.
- PROVIDE FLUSH MOUNTED JUNCTION BOX FOR CONNECTION OF ELECTRIC HAND DRYER. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL MOUNTING HEIGHT AND LOCATION. CONNECT TO EXISTING 120V CIRCUIT LEFT IN PLACE AFTER DEMOLITION. EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE TO NEW LOCATION. PROVIDE PERMANENT LOCK-OFF DEVICE ON EXISTING BREAKER.
- REFER TO DETAILS FOR RACK RECEPTACLES INSTALLATION TYPICAL.
- ROUTE 34°C TO ASSOCIATED OUTDOOR UNIT ON ROOF. ROUTE PARALLEL WITH REFRIGERATION LINES.
- PROVIDE NEW RECEPTACLES AS SHOWN AND CONNECT TO EXISTING CIRCUITS LEFT IN PLACE AFTER DEMOLITION. EXTEND CONDUCTORS / CONDUIT WITH MATCHING SIZE TO NEW LOCATION. FIELD VERIFY CONNECTED LOAD NOT TO EXCEED 1500 W @ 120 V.
- PROVIDE NEW RECEPTACLE AS SHOWN FOR REPLACEMENT ELECTRIC DRINKING FOUNTAIN. PROVIDE NEW 2#12, #1#12, FROM EXISTING SOURCE IN EXISTING CONDUIT AND EXISTING 30A/1P BREAKER LEFT IN PLACE AFTER DEMOLITION.

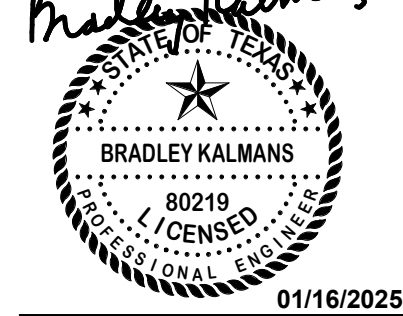


**NATEX CORPORATION ARCHITECTS**  
 www.natexarchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
 Fax: 713-780-7824



3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
 tel: 832.947.1038 fax: 282.214.5365

**BID DOCUMENTS**



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 SUITE 400  
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**SALAS O'BRIEN**  
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 SUITE 900  
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 CFISD PROJECT NO: 24-02-5750-R-RFP

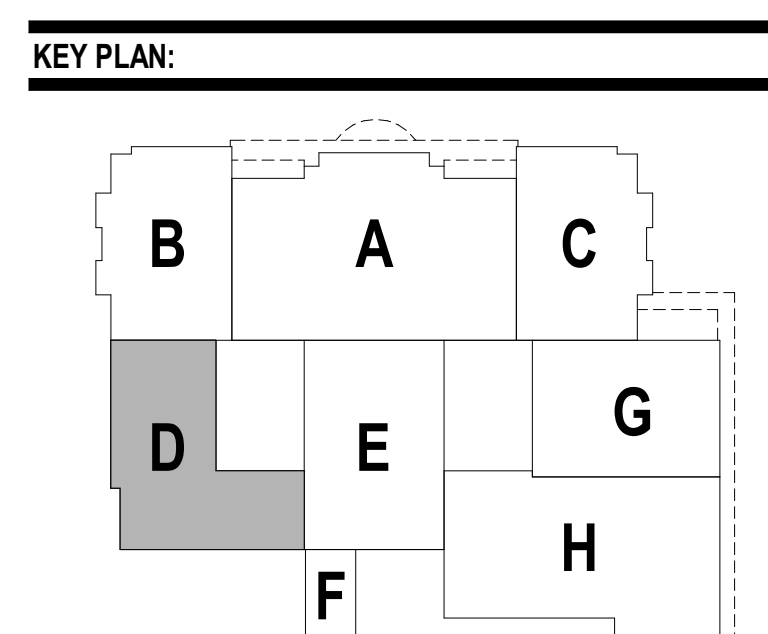
Revisions / Submission

T	ADDENDUM #2	01/16/25
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Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: LT

**ELECTRICAL POWER 1ST FLOOR - AREA 'D'**

**E3.04**



- ### ELECTRICAL KEYED NOTES
1. PROVIDE DRY CONTACT FOR INDIVIDUAL MONITORING INTERFACE WITH SECURITY PANEL FOR EACH ATS.
  2. 3PH. 4W, 120/208V, 400A REVENUE GRADE SUBMETER FOR LOAD AT FEEDERS AS SHOWN ON DIAGRAM. E-MON D-MON 3400 SERIES DEMAND METER. SUBMETER SHALL MEASURE KWH AND DEMAND AND WITH BACK-NET COMPATIBILITY.
  3. 3PH, 4W, 120/208V, 100A REVENUE GRADE SUBMETER FOR LOAD AT FEEDERS AS SHOWN ON DIAGRAM. E-MON D-MON 3400 SERIES DEMAND METER. SUBMETER SHALL MEASURE KWH AND DEMAND AND WITH BACK-NET COMPATIBILITY.
  4. EXTEND/RE-ROUTE ALL EXISTING BRANCH CIRCUIT AND FEEDER CONDUCTORS/CONDUIT FROM EXISTING PANEL WITH MATCHING SIZE TO REPLACEMENT/RELOCATED PANEL.
  5. PROVIDE PHASE SEQUENCE MONITOR/BALANCE MODULE TO PROTECT AGAINST INADVERTENT PHASE ROTATION HOOKUP AND MONITOR FOR VOLTAGE PHASE IMBALANCE BETWEEN PHASES.
  6. 1" C. TO ATS FOR CONTROL WIRING REFER TO SPECIFICATIONS AND COORDINATE WITH MANUFACTURER TYPICAL.
  7. DOUBLE-THROW MANUAL TRANSFER SWITCH WITH INTEGRATED QUICK-CONNECTS IN SINGLE PACKAGE. REFER TO SPECIFICATIONS.

### (E)ATS AVAILABLE FAULT CURRENT

PROVIDE LABEL WITH LETTERING ON CONTRASTING BACKGROUND PERMANENTLY AFFIXED TO THE SERVICE DISCONNECT / EQUIPMENT PRIOR TO ENERGIZING THE SERVICE EQUIPMENT. THE LABEL SHALL INCLUDE THE DATE OF INSTALLATION AND THE DATE OF CALCULATION. THE DATE OF CALCULATION SHALL BE THE DATE INDICATED BY THE ENGINEER OF RECORD'S SEAL ON THE CONSTRUCTION DOCUMENT ELECTRICAL ONE-LINE DIAGRAM / RISER DRAWING. REFER TO SPECIFICATIONS.

SERVICE EQUIPMENT AVAILABLE FAULT CURRENT: 9,257 A  
 DATE OF INSTALLATION: MM/DD/YYYY  
 DATE OF CALCULATION: 11/12/2024

### (E)ATS-LS AVAILABLE FAULT CURRENT

PROVIDE LABEL WITH LETTERING ON CONTRASTING BACKGROUND PERMANENTLY AFFIXED TO THE SERVICE DISCONNECT / EQUIPMENT PRIOR TO ENERGIZING THE SERVICE EQUIPMENT. THE LABEL SHALL INCLUDE THE DATE OF INSTALLATION AND THE DATE OF CALCULATION. THE DATE OF CALCULATION SHALL BE THE DATE INDICATED BY THE ENGINEER OF RECORD'S SEAL ON THE CONSTRUCTION DOCUMENT ELECTRICAL ONE-LINE DIAGRAM / RISER DRAWING. REFER TO SPECIFICATIONS.

SERVICE EQUIPMENT AVAILABLE FAULT CURRENT: 14,214 A  
 DATE OF INSTALLATION: MM/DD/YYYY  
 DATE OF CALCULATION: 11/12/2024

SINCE EXACT FAULT CURRENT INFORMATION IS CURRENTLY NOT AVAILABLE FROM CENTERPOINT ENERGY, CENTERPOINT ENERGY'S TRANSFORMER SECONDARY FAULT CURRENT TABLES HAVE BEEN USED TO PERFORM THE SHORT CIRCUIT CURRENT CALCULATIONS USING POINT-TO-POINT METHOD.

### ELECTRICAL LOAD ANALYSIS

LOAD DESCRIPTION	NEC-2023 CRITERIA	LOAD KVA
480 / 277, 3PH, 4W		
PEAK DEMAND 1,029.0 @125%	220.87	1,266.2
LOAD REMOVED 328.0 @100%		328.0
LIGHTING (CALC.) 1,730 SqFt x 1.5 W	220.42(A)	2.5
LIGHTING (CONNECTED) x 1.25	215.2	164.0
RECEPTACLES (CONNECTED)	220.47	25.7
1st 10KVA @100%	220.47	10.0
REMAINDER @50%	220.47	7.8
MISCELLANEOUS	220	128.5
KITCHEN EQUIPMENT	220.56	0
HVAC - FANS, PUMPS, AHUs	220	14.7
CHILLERS	220	0
25% LARGEST MOTOR (25 HP)	430.24	7.1
TOTAL		1,290.3

1,290.3 /  $\sqrt{3}$  x kV x V / sqrt3 = 1,552.0 A  
 4,000 A EXISTING SERVICE

### GENERATOR LOAD ANALYSIS

LOAD DESCRIPTION	LOAD KVA
480 / 277, 3PH, 4W	
LIGHTING x 1.25	39.5
RECEPTACLES	9.3
MISCELLANEOUS	49.5
HVAC - FAN'S, AHU'S	10.8
TOTAL	109.1

GENERATOR CAPACITY - 125 kW / 156 KVA

UNLESS NOTED OTHERWISE, RETAIN IN PLACE ALL EXISTING CIRCUITS AND FEEDER FROM SOURCE FOR ALL EXISTING PANELS LABELED TO BE REPLACED AND / OR RELOCATED. EXTEND / RE-ROUTE EXISTING BRANCH CIRCUITS AND FEEDER LEFT IN PLACE AFTER DEMOLITION FROM EXISTING PANELS TO BE RELOCATED AND / OR REPLACED.

CONTRACTOR TO FIELD VERIFY INTERRUPTING FAULT CURRENT CAPACITY OF EXISTING PANELS AND / OR SWITCHBOARDS AND TO PROVIDE NEW BREAKERS-FUSES TO MATCH EXISTING.

### TWO-HOUR FIRE RATED CABLE:

1. TWO-HOUR FIRE RATED POWER CABLE SHALL BE APPROVED BY THE LOCAL AHJ AND INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS IN COMPLIANCE WITH UL FIRE RESISTANCE DIRECTORY. ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS (FHT), AND SYSTEM 27.

2. TWO-HOUR FIRE RATED POWER CABLE SHALL BE INSTALLED AS APPROVED BY THE LOCAL AHJ IN STEEL EMT OR STEEL RIGID CONDUIT WITH STEEL SET SCREW OR THREADED FITTINGS. UL LISTED FLEXIBLE METALLIC STEEL CONDUIT MAY BE USED IN LENGTHS NOT TO EXCEED 6- FEET. SUPPORT CONDUIT EVERY 5- FEET ON CONCRETE OR MASONRY WALLS OR A CONCRETE FLOOR/CEILING ASSEMBLY. THE FIRE RATING OF THE WALL OR FLOOR-CEILING ASSEMBLY MUST BE EQUAL TO OR GREATER THAN THE RATING OF THE ELECTRICAL CIRCUIT PROTECTIVE SYSTEM. PROVIDE J-BOX AT EACH END OF THE FIRE RATED CABLES IN THE FIRE RATED ROOM TO ALLOW SPLICE TO STANDARD BUILDING CABLE TO THE EQUIPMENT. PROVIDE SEALANT TO THE END OF THE RACEWAY TO PREVENT GASES FROM MIGRATING FROM THE FIRE RATED CABLE DOWN INTO THE EQUIPMENT.

### INSULATION FOR TWO-HOUR FIRE RATED POWER CABLE:

1. INSULATION SHALL MEET OR EXCEED THE REQUIREMENTS OF UL 2196 FIRE TEST FOR CIRCUIT INTEGRITY OF FIRE-RESISTIVE POWER, INSTRUMENTATION, CONTROL AND DATA CABLES. AND UL 44, THERMOSET INSULATED WIRES AND CABLES.

a. INSULATION FOR CONDUCTORS SHALL BE UL TYPE RHW-2 OR RHW-90, 90 DEGREES C FOR WET LOCATIONS AND 90 DEGREES C FOR DRY LOCATIONS.  
 b. ELECTRICAL CIRCUIT PROTECTIVE SYSTEMS (FHT) - SYSTEM 27 OF THE UL FIRE RESISTANCE DIRECTORY.

### LINETYPE LEGEND

(Solid line)	EXISTING TO REMAIN
(Dashed line)	DISCONNECT AND REMOVE
(Dash-dot line)	NEW WORK

DEMOLITION / EXISTING DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION, AND WHEN AVAILABLE, EXISTING RECORD DOCUMENTS. REPORT DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING INSTALLATION, AND IMMEDIATELY AFTER SUCH DISCREPANCIES ARE DISCOVERED, CONTRACTOR TO VERIFY EXISTING CONDITIONS ON FIELD AND NOTIFY ENGINEER. IF THERE ARE ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND DRAWINGS PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL REMOVE SUCH EXISTING WORK AS CALLED FOR ON THE DRAWINGS OR AS REQUIRED TO CLEAR THE AREAS OF NEW CONSTRUCTION.

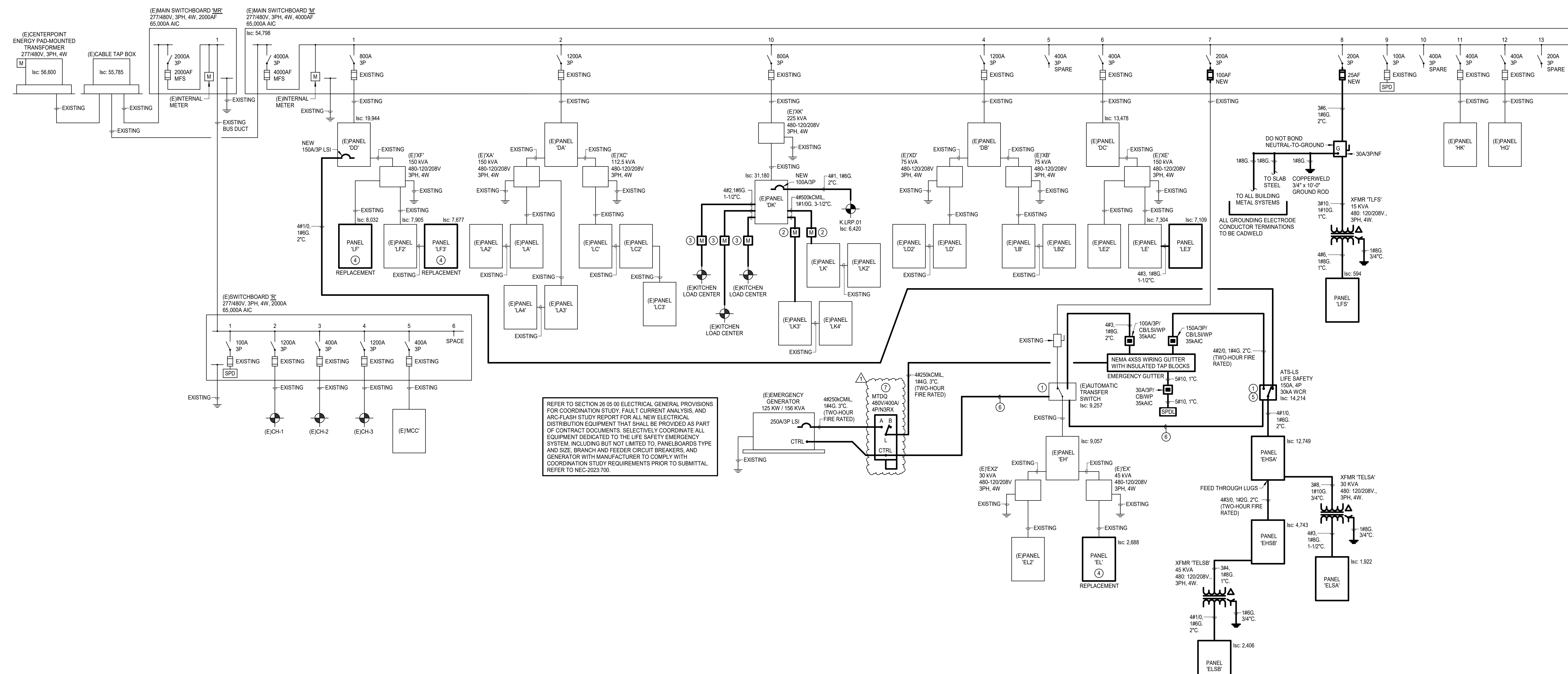
OWNER OR ITS REPRESENTATIVE SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL EQUIPMENT BEING REMOVED FROM THIS PROJECT. CONTRACTOR TO NOTIFY CAREY RAMSEY WITH DISTRICT PRIOR TO DEMOLITION WORK TO DISCUSS ALL RETURNED ITEMS TO DISTRICT.

### PANELBOARD CIRCUIT DIRECTORY:

CONTRACTOR SHALL RECORD AND/OR PRESERVE THE EXISTING CIRCUIT DIRECTORY, IF ANY, FOR THE SOLE PURPOSE UPON COMPLETION OF NEW WORK OF PRODUCING A NEW CIRCUIT DIRECTORY.

CONTRACTOR SHALL PROVIDE AS PART OF THE CONSTRUCTION DOCUMENTS A NEW, NEATLY TYPED DIRECTORY. CONTRACTOR SHALL TRACE ALL EXISTING CIRCUITS AND SHALL LEGIBLY IDENTIFY AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE, LOADS SERVED AND LOCATION AND/OR THE PANELBOARD SCHEDULE ON THE DRAWINGS. THE WORD 'EXISTING' SHALL NOT BE USED ON PANELBOARD DIRECTORIES. SPARE BREAKERS ARE TO BE LISTED AS 'SPARE' SPACES WITH NO BREAKERS ARE TO BE LEFT BLANK. REFER TO NEC-2023; 408.4(A) FOR DETAILS.

CONTRACTOR SHALL PERMANENTLY LABEL AS PART OF THE CONSTRUCTION DOCUMENTS ALL SWITCHBOARDS, SWITCHGEAR AND PANELBOARDS TO INDICATE EACH POWER SOURCE. REFER TO NEC-2023; 408.4(B) FOR DETAILS.



**1 PARTIAL ONE LINE DIAGRAM**  
 Scale: N.T.S.



ELECTRICAL GENERAL NOTES

- 1 REMOVE ALL ABANDONED EQUIPMENT, WIRING AND CONDUIT BACK TO SOURCE.
2 EXCEPT AS OTHERWISE NOTED, ALL EXISTING ELECTRICAL WORK WHICH WILL NOT BE RENDERED OBSOLETE & WHICH MAY BE DISTURBED DUE TO ANY CHANGES REQUIRED UNDER THIS CONTRACT, SHALL BE RESTORED TO ITS ORIGINAL OPERATING CONDITION. OTHER ELECTRICAL WORK OR MATERIAL RENDERED OBSOLETE SHALL BE ABANDONED WHERE CONCEALED AND REMOVED WHERE EXPOSED. OLD UNUSED WIRING AND DEVICES SHALL BE REMOVED FROM THE ABANDONED (CONCEALED) CONDUITS. OUTLETS SHALL BE PROVIDED WITH BLANK COVERS. ANY CONDUITS OUT OF MASONRY SURFACE SHALL BE CUT INTO SURFACE AND PATCHED.
3 WHERE EXISTING ELECTRICAL WORK INTERFERES WITH NEW WORK AND WHERE SUCH INSTALLATIONS ARE TO REMAIN IN USE, THE INSTALLATIONS SHALL BE DISCONTINUED AND RELOCATED AND/OR RECONNECTED TO COORDINATE WITH THE WORK INDICATED ON THE CONTRACT DRAWINGS AND AS SPECIFIED.
4 WHERE EXISTING RACEWAYS THAT ARE NOT TO BE REUSED INTERFERE WITH NEW WORK, THESE RACEWAYS SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX OR PULL BOX AND THE OPENINGS COVERED.
5 EXISTING RACEWAYS AND/OR WIRING MAY BE REUSED WHERE PRACTICABLE, EXCEPT AS OTHERWISE INDICATED.
6 CONTRACTOR SHALL MAINTAIN CONTINUITY OF BRANCH CIRCUITS SERVING MULTIPLE ITEMS OF WHICH ONE OR MORE ARE BEING DEMOLISHED. CONDUCTORS AND CONDUITS FOR THOSE ITEMS BEING DEMOLISHED SHALL BE REMOVED AS FAR AS PRACTICABLE.
7 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXISTING ELECTRICAL EQUIPMENT NOT REUSED OR NOT NECESSARY FOR THE COMPLETION OF THIS PROJECT.
8 IF ANY BRANCH CIRCUIT WIRING FEEDING EQUIPMENT TO REMAIN IN PLACE FOR REUSE IS DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE WITH NEW BRANCH CIRCUIT WIRING OF THE SAME SIZE AND TYPE AS EXISTING AT NOT COST TO THE OWNER.
9 COORDINATE THE REMOVAL AND REINSTALLATION (OR PROTECTION IN PLACE) OF EXISTING ELECTRICAL EQUIPMENT AND DEVICES WITH THE WORK OF OTHER TRADES TO REPLACE OR REFINISH EXISTING WALLS AND CEILINGS.
10 DISCONNECT AND REMOVE ALL CONDUIT AND WIRE, AND DISCONNECT ASSOCIATED WITH HVAC, PLUMBING AND TECHNOLOGY EQUIPMENT BEING REMOVED.

LIGHTING CONTROLS SCHEDULE

Table with columns: Type, Sensor Operation, # of Lighting Zones, # of Plug Load Zones, # of Total Zones, Description. Includes rows for VACANCY, OCCUPANCY, and ON/OFF controls.

- 1 PER IECC-2015, SECTION C405, AREAS / ROOMS WHERE AUTOMATIC SHUTOFF FOR LIGHTING WOULD ENDANGER OCCUPANT SAFETY ARE EXEMPT FROM AUTOMATIC CONTROLS.
2 PROVIDE PHOTOCELL WITHIN DAYLIGHT ZONE ONLY WHERE SHOWN ON FLOORPLANS.
3 LOCATE PHOTOSENSOR SURFACE MOUNTED ON THE NORTH SIDE OF THE BUILDING. LOCATION IS TO BE APPROVED BY ARCHITECT/OWNER REPRESENTATIVE.
4 CONTRACTOR TO COORDINATE EXACT PROGRAMING OF TIME-SCHEDULE WITH OWNER REPRESENTATIVE.
5 REFER TO LIGHTING CONTROL DETAILS FOR TYPICAL INSTALLATION.

LIGHTING FIXTURE SCHEDULE

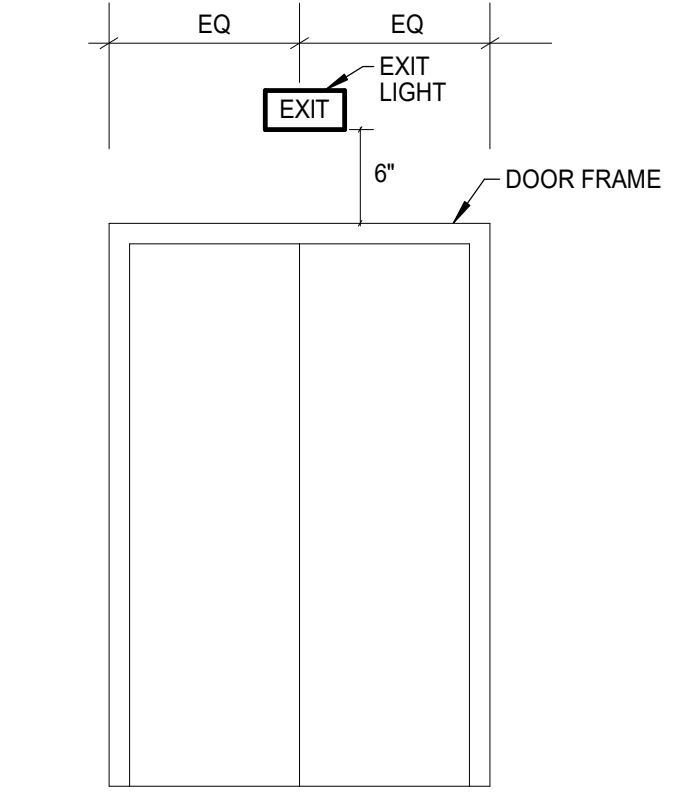
Table with columns: Type Mark, Manufacturer, Catalog Number, Mounting, Lamp Type, CCT, CRI, Voltage, Load, Remarks. Lists various lighting fixtures like METALUX, HALO, and SURE-LITES.

- 1 UNLESS OTHERWISE INDICATED ON THE SCHEDULE ABOVE, THE ARCHITECT/OWNER REPRESENTATIVE SHALL SELECT ALL FINISHES, COLORS, AND TRIMS.
2 APPROVED LIGHTING MANUFACTURERS: SURFACE / RECESSED LIGHTING: LITHONIA, METALUX, AXIS, CURRENT, PIRNACLE, H.E. WILLIAMS, CREE, NULITE, ALW DOWN / TRACK LIGHTING: GOTHAM, LIGHTOLIER, PORTFOLIO, CREE, CURRENT, INDY, H.E. WILLIAMS ARCHITECTURAL WALLPACK, LITHONIA, VISIONAIRE, CURRENT, GARDOO, MCGRAW EDISON, HUBBELL, LSI, LUMARK, LIGMAN EXIT SIGNAGE: OHLORDE, LITHONIA, EMERALITE, DUAL-LITE, SURE-LITES, EVOULTE.
3 REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS NOT INDICATED IN THE LIGHTING FIXTURE SCHEDULE. WHERE THERE IS AN INCONSISTENCY BETWEEN THE LIGHTING FIXTURE SCHEDULE AND THE SPECIFICATIONS, THE GREATER QUANTITY OR HIGHER QUALITY OF WORK SHALL BE INCLUDED IN THE PROPOSAL.
4 THE ABOVE LIGHTING MANUFACTURERS SUBSTITUTION LIST DOES NOT GUARANTEE APPROVAL. APPROVAL WILL BE DETERMINED AFTER REVIEW OF SHOP DRAWING TO DETERMINE IF THE FIXTURE OR POLE SUBMITTED MEETS OR EXCEEDS THE DESIGN STANDARDS AND PERFORMANCE REQUIRED OF THE ACTUAL FIXTURE SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. IF SHAW BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY SELECT SUBSTITUTIONS FOR THE SPECIFIED LIGHT FIXTURES FROM THE APPROVED LIGHTING MANUFACTURERS LISTED ABOVE, WHERE SPECIFIC OPTIONS / ACCESSORIES ARE SPECIFIED, THEY SHALL BE PROVIDED AS SPECIFIED WITH THE SUBSTITUTION.
5 DUE TO THE WIDE RANGE OF FIXTURE QUALITIES OFFERED BY EACH MANUFACTURER, THE APPROVED LIGHTING MANUFACTURERS SUBSTITUTION LIST IS NOT INTENDED TO INDICATE THAT ANY OR ALL MANUFACTURERS LISTED WILL HAVE SUITABLE SUBSTITUTIONS FOR THE LIGHT FIXTURES OR POLES SPECIFIED IN THE LIGHT FIXTURE SCHEDULE. SHOP DRAWING DELAYS AS A RESULT OF INAPPROPRIATE SUBSTITUTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6 THE CONTRACTOR SHALL PROVIDE ALL HARDWARE AND ACCESSORIES AS REQUIRED TO INSTALL FIXTURES IN LOCATIONS AS ILLUSTRATED WITH MOUNTING METHODS DESIRED.
7 WHEN A UNIVERSAL (120-277V) VOLTAGE OPTION IS AVAILABLE, IT SHALL BE PROVIDED, OTHERWISE AS INDICATED IN SCHEDULE.
8 FOR ALL SUSPENDED FIXTURES, COORDINATE THE EXACT MOUNTING ELEVATION ABOVE FINISHED FLOOR WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE SUSPENSION HARDWARE IN LENGTHS AS REQUIRED.

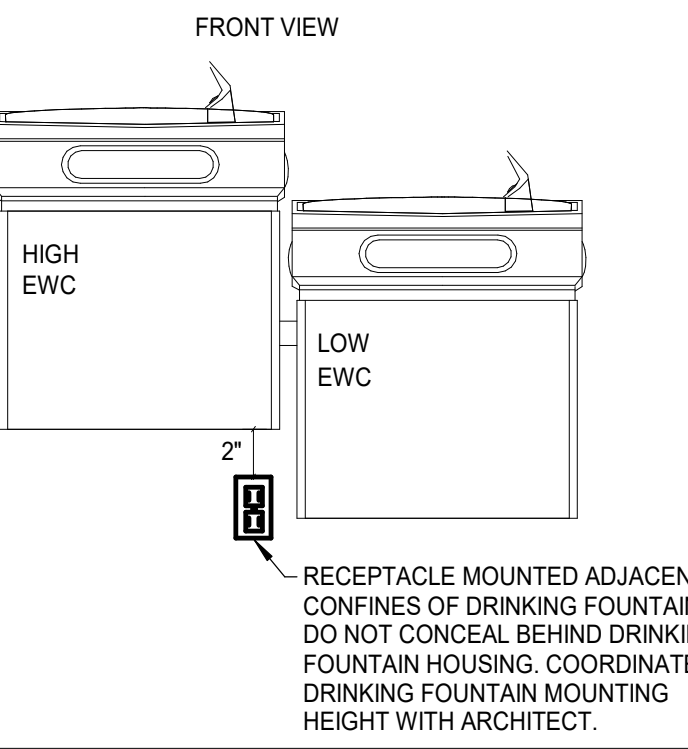
CONTRACTOR SCHEDULE

Table with columns: CONTRACTOR TAG, CIRCUIT NUMBER, CONTROL SOURCE, CONTRACTOR LOCATION, LOAD(S) SERVED, 120 V CONTROL CIRCUIT. Includes rows for C-1 and C-2.

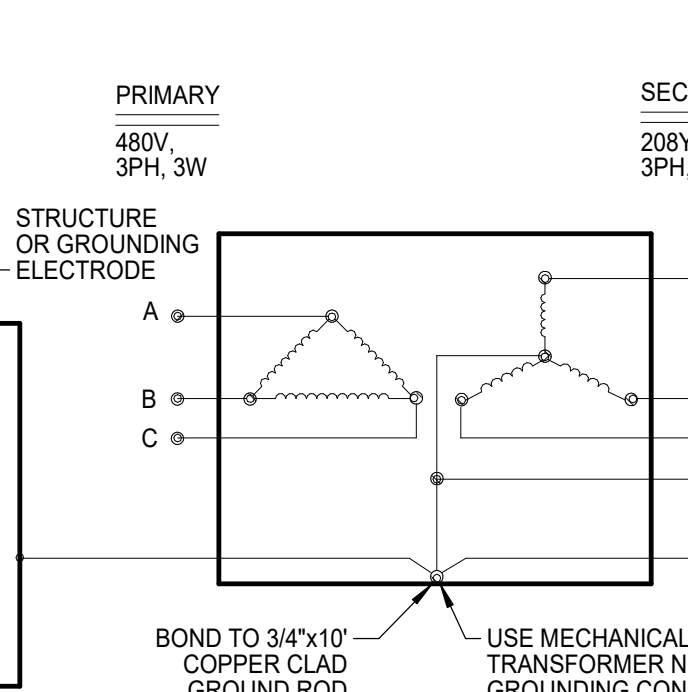
1. CONTRACTOR TO COORDINATE EXACT PROGRAMING OF TIME-SCHEDULE WITH OWNER REPRESENTATIVE.



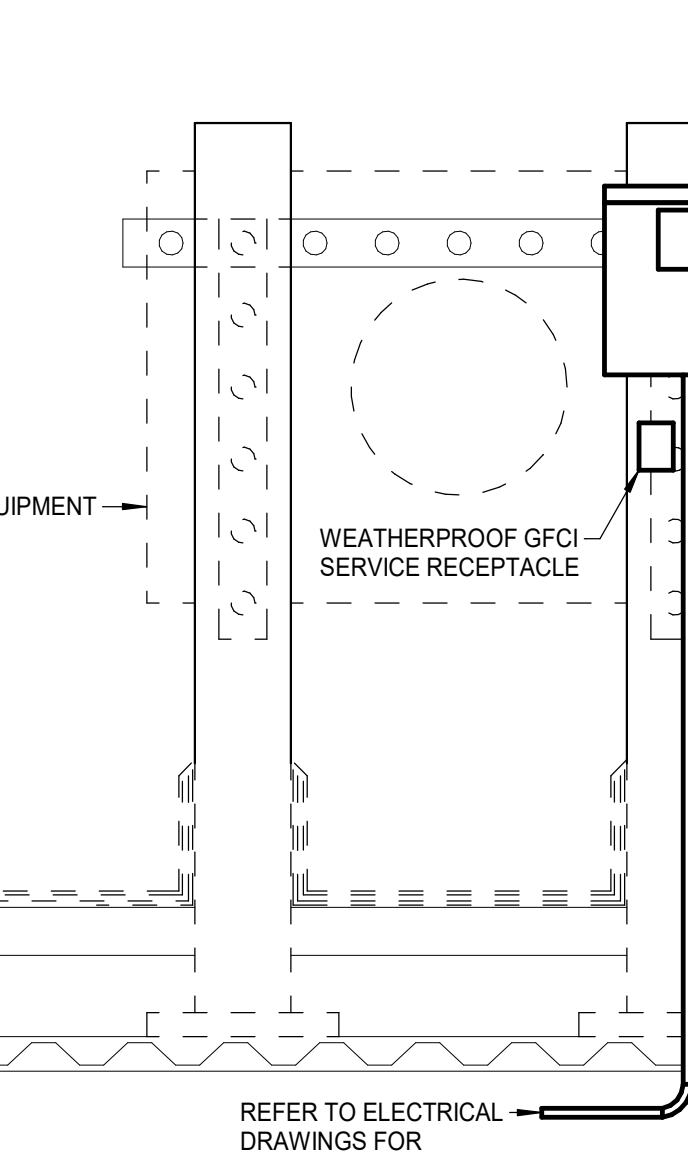
9 EXIT SIGN LOCATION Scale: NOT TO SCALE



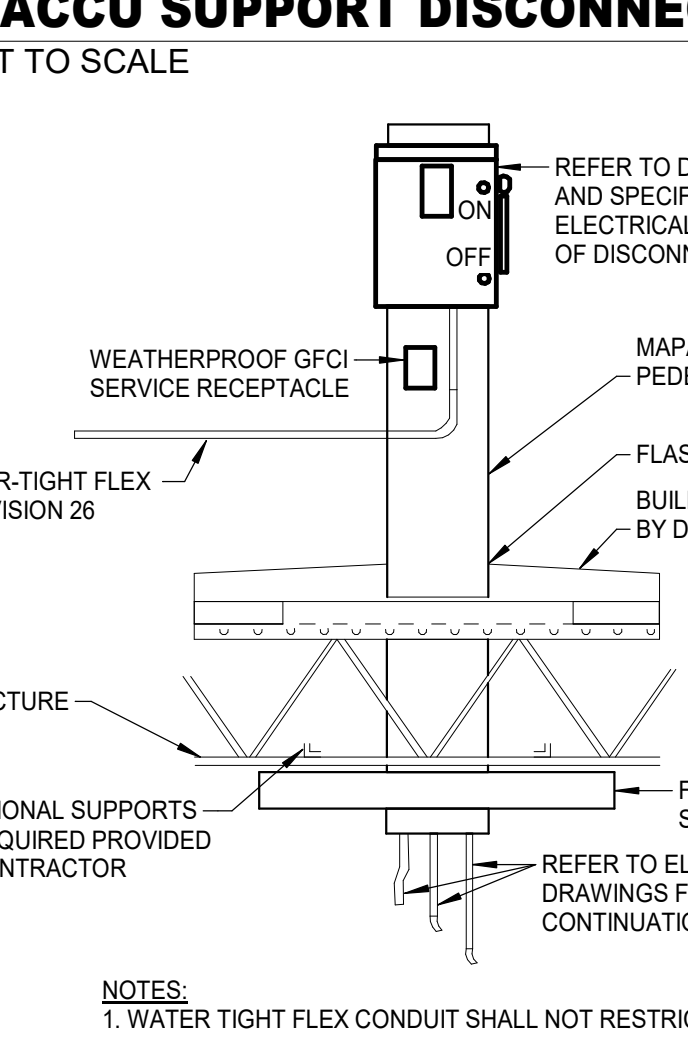
8 DRINKING FOUNTAIN WITH GFCI RECEPTACLE Scale: NOT TO SCALE



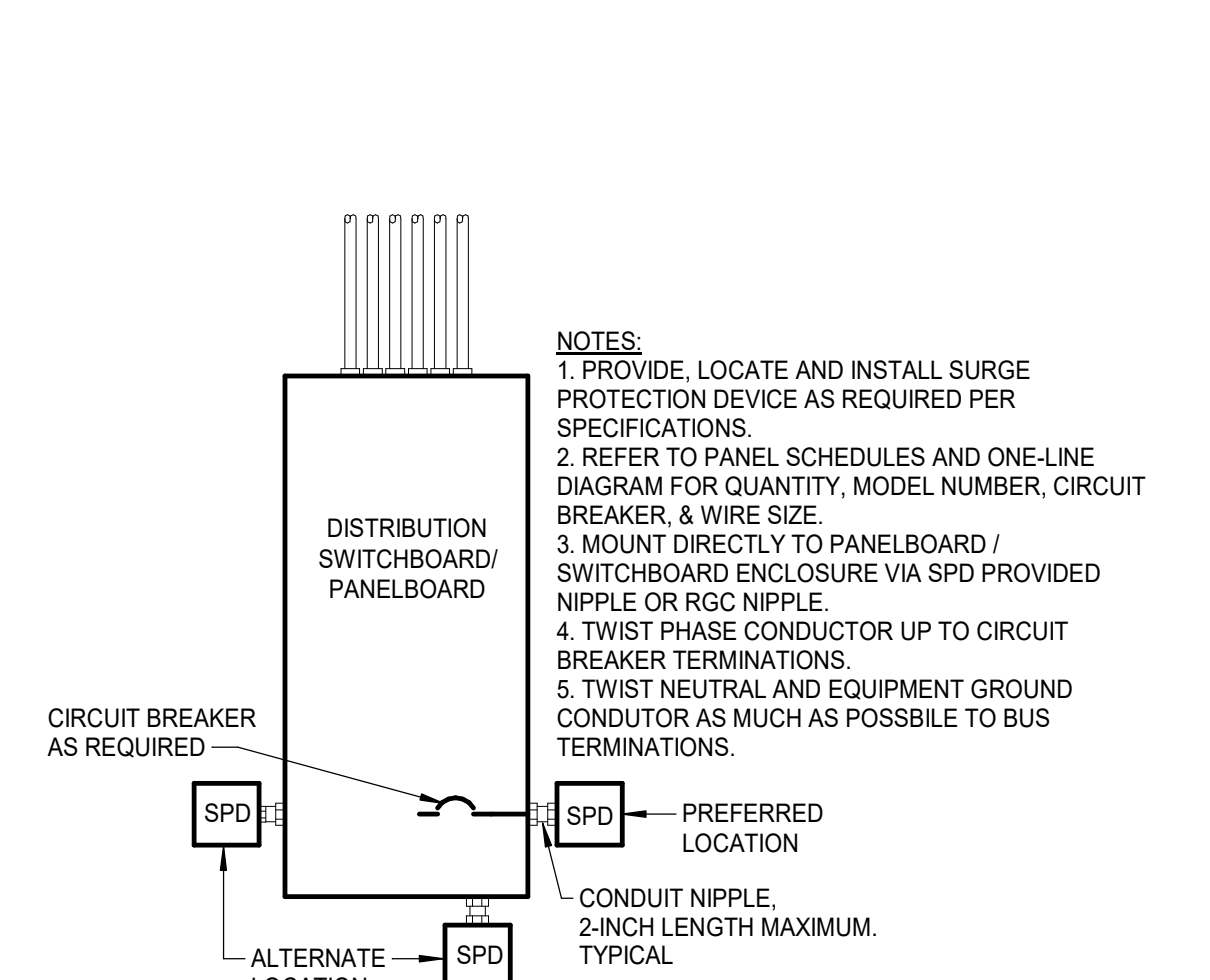
7 GROUNDING FOR TRANSFORMERS Scale: NOT TO SCALE



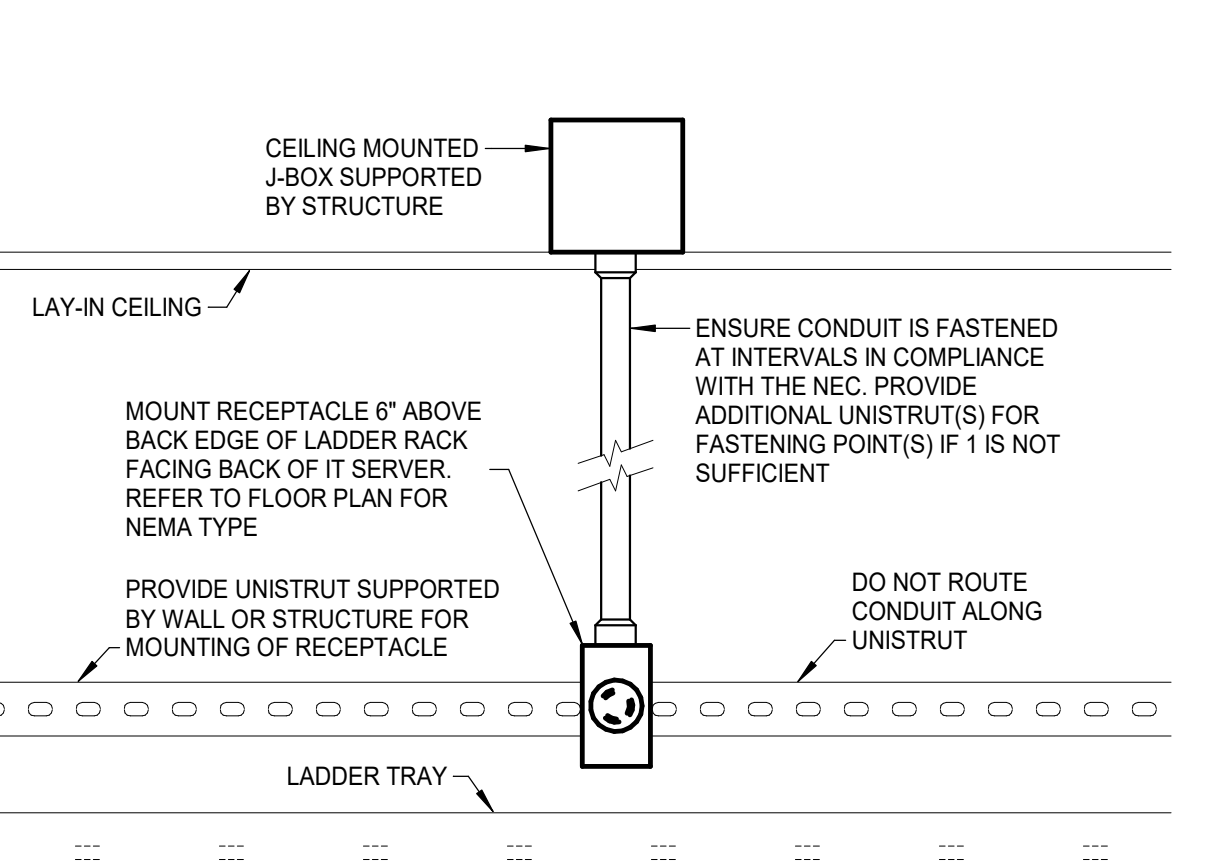
6 ROOF ACCU SUPPORT DISCONNECT/RECEPTACLE Scale: NOT TO SCALE



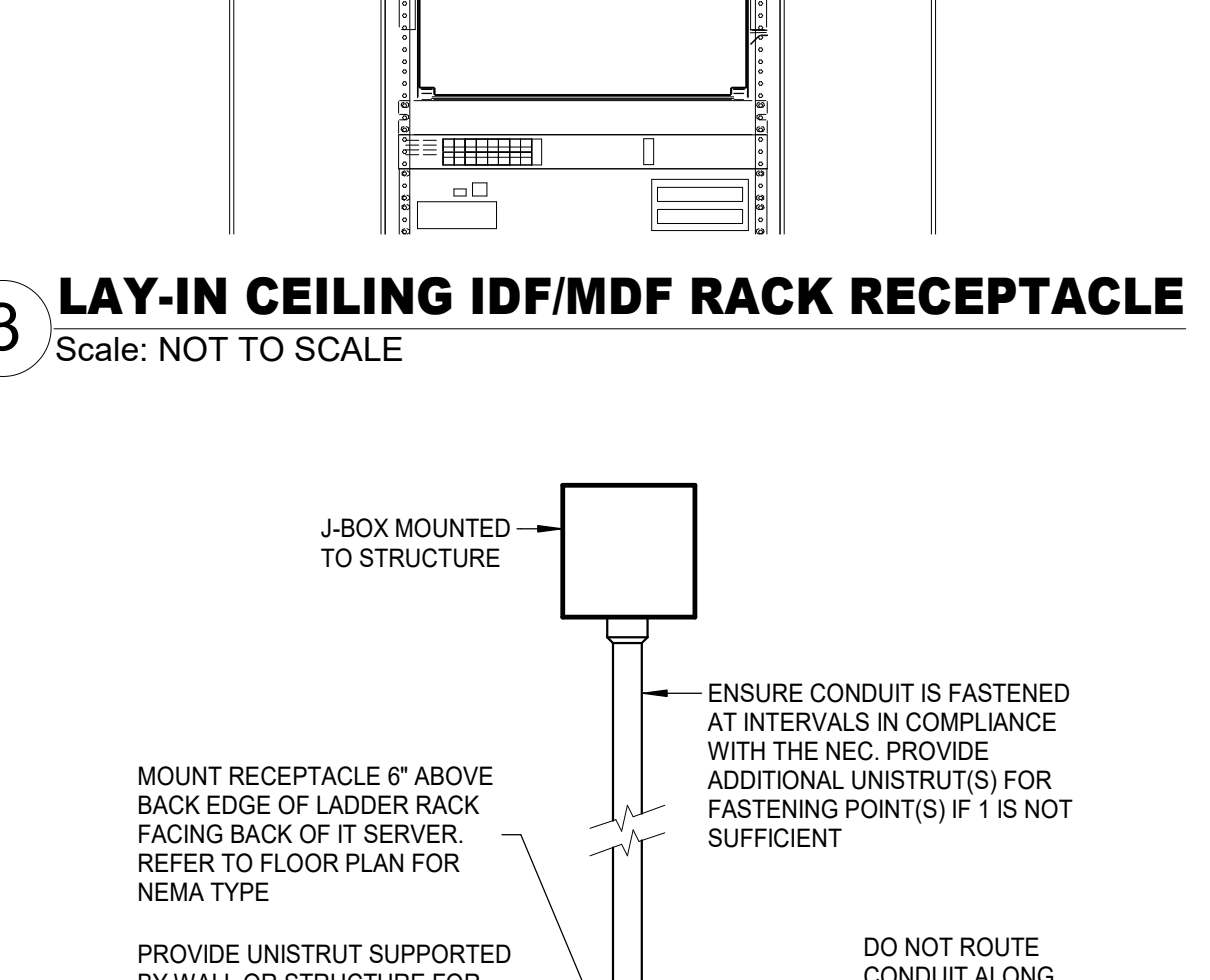
5 PEDESTAL MOUNT DISCONNECT/RECEPTACLE Scale: NOT TO SCALE



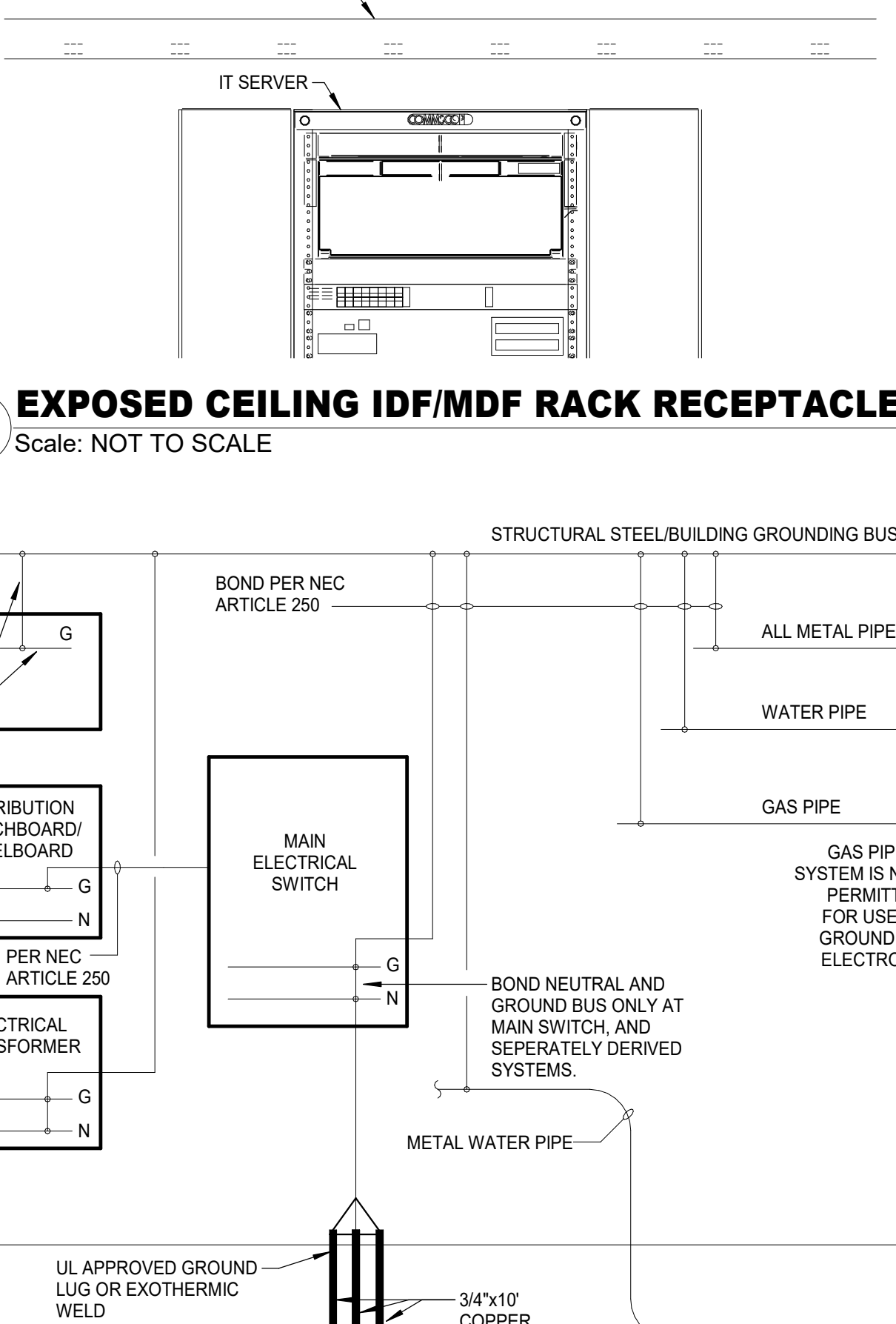
4 SURGE PROTECTION DEVICE Scale: NOT TO SCALE



3 LAY-IN CEILING IDF/MDF RACK RECEPTACLE Scale: NOT TO SCALE



2 EXPOSED CEILING IDF/MDF RACK RECEPTACLE Scale: NOT TO SCALE



1 SYSTEM GROUNDING Scale: NOT TO SCALE

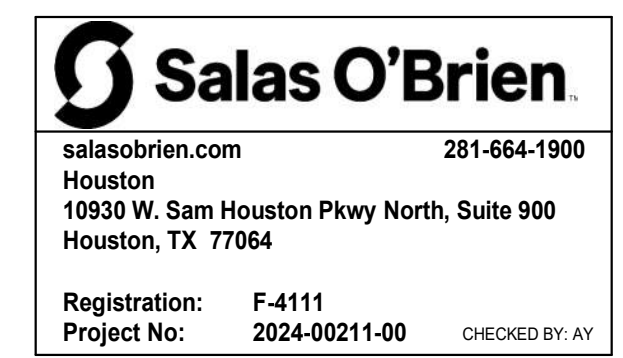
SYMBOL SCHEDULE

Symbol Schedule table with columns: SYMBOL, DESCRIPTION (DISREGARD ITEMS NOT SHOWN ON PLANS). Lists symbols for LIGHTING, SWITCHES, LOW VOLTAGE LIGHTING CONTROLS, RECEPTACLES AND OUTLETS, MISCELLANEOUS EQUIPMENT, MOTOR CONTROLLERS AND EQUIPMENT, and ELECTRICAL EQUIPMENT.

BID DOCUMENTS
BRADLEY KALMANS
21020 PARK ROW
KATY, TX 77449
tel: 281-578-9599
CIVIL ENGINEER
BROOKS AND SPARKS, INC.
21020 PARK ROW
KATY, TX 77449
tel: 281-578-9599
STRUCTURAL ENGINEER
DALLY + ASSOCIATES, INC.
9800 RICHMOND AVE.
SUITE 400
HOUSTON, TX 77024
tel: 713-337-8881
MEPT ENGINEER
SALAS O'BRIEN
10930 W. SAM HOUSTON PKWY. N.
SUITE 900
HOUSTON, TX 77064
tel: 281-664-1900
FOOD SERVICE EQUIPMENT
FDP
25317 INTERSTATE 45
THE WOODLANDS, TX 77380
tel: 281-350-2323
LANDSCAPE
LANDSCAPE GROUP
17041 EL GAMINO REAL, STE 204
HOUSTON, TX 77058
tel: 281-486-4040

2024 ANTHONY, HOPPER & KAHLA RENOVATIONS
KAHLA MIDDLE SCHOOL
16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084
CFISD PROJECT NO: 24-02-5750-R-RFP



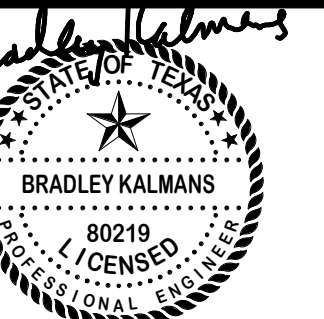


NATEX CORPORATION ARCHITECTS
www.natexarchitects.com
447 Heights Boulevard
Houston, TX 77007
Phone: 713-975-9525
Fax: 713-780-7824



3701 Kirby Drive, Suite 830
Houston, TX 77098
Tel: 832.947.1038 fax 282.214.5365

BID DOCUMENTS



01/16/2025

CIVIL ENGINEER
BROOKS AND SPARKS, INC.
21020 PARK ROW
KATY, TX 77449
Tel: 281.578.9595

STRUCTURAL ENGINEER
DALLY + ASSOCIATES, INC.
9800 RICHMOND AVE.
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HOUSTON, TX 77042
Tel: 713.337.8881

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1. ADDENDUM #2 01/16/25
Revisions / Submission

Project Number: 23072
Date: 29 DECEMBER 2024
Drawn by: NY

TECHNOLOGY LEGENDS & SCHEDULES

T0.00

TECHNOLOGY LEGEND - 27 10 00
Table with columns: SYMBOL, DESCRIPTION, ELEVATION, BACK BOX/RACEWAY, NOTES

AUDIO/VIDEO LEGEND - 27 41 16.10
Table with columns: SYMBOL, DESCRIPTION, ELEVATION, BACK BOX/RACEWAY, NOTES

LOCAL SOUND SYSTEM LEGEND - 27 41 16.20
Table with columns: SYMBOL, DESCRIPTION, ELEVATION, BACK BOX/RACEWAY, NOTES

INTERCOM LEGEND - 27 50 00
Table with columns: SYMBOL, DESCRIPTION, ELEVATION, BACK BOX/RACEWAY, NOTES

ACCESS CONTROL LEGEND - 28 10 00 & 28 10 00.05
Table with columns: SYMBOL, DESCRIPTION, ELEVATION, BACK BOX/RACEWAY, NOTES

VIDEO SURVEILLANCE LEGEND - 28 20 00
Table with columns: SYMBOL, DESCRIPTION, ELEVATION, BACK BOX/RACEWAY, NOTES

INTRUSION LEGEND - 28 31 00
Table with columns: SYMBOL, DESCRIPTION, ELEVATION, BACK BOX/RACEWAY, NOTES

FIRE ALARM - 28 46 00
Table with columns: SYMBOL, DESCRIPTION, ELEVATION, BACK BOX/RACEWAY, NOTES

SUBSCRIPTS AND ABBREVIATIONS
Table with columns: TEXT, DESCRIPTION

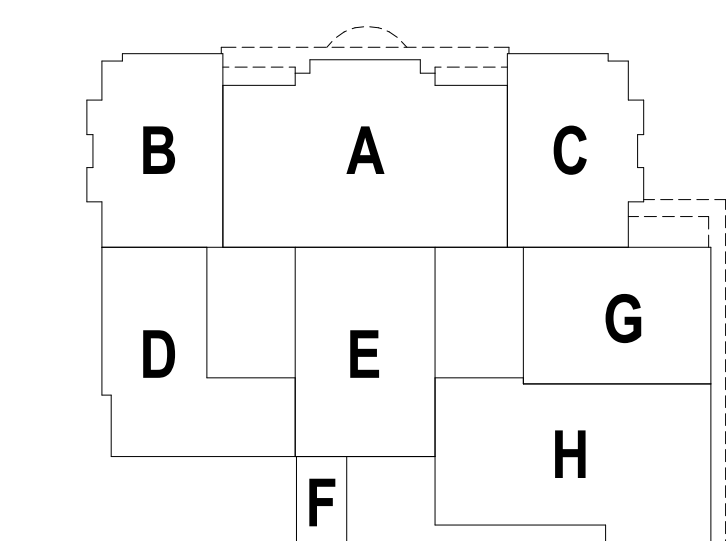
SUBSCRIPTS LEGEND - EXISTING DEVICES
Table with columns: TEXT, DESCRIPTION

NOTES TO CONTRACTOR
List of notes for contractor regarding legend symbols and system requirements.

TECH DEMO PLAN GENERAL NOTES
List of notes for contractor regarding demo plan execution and safety.

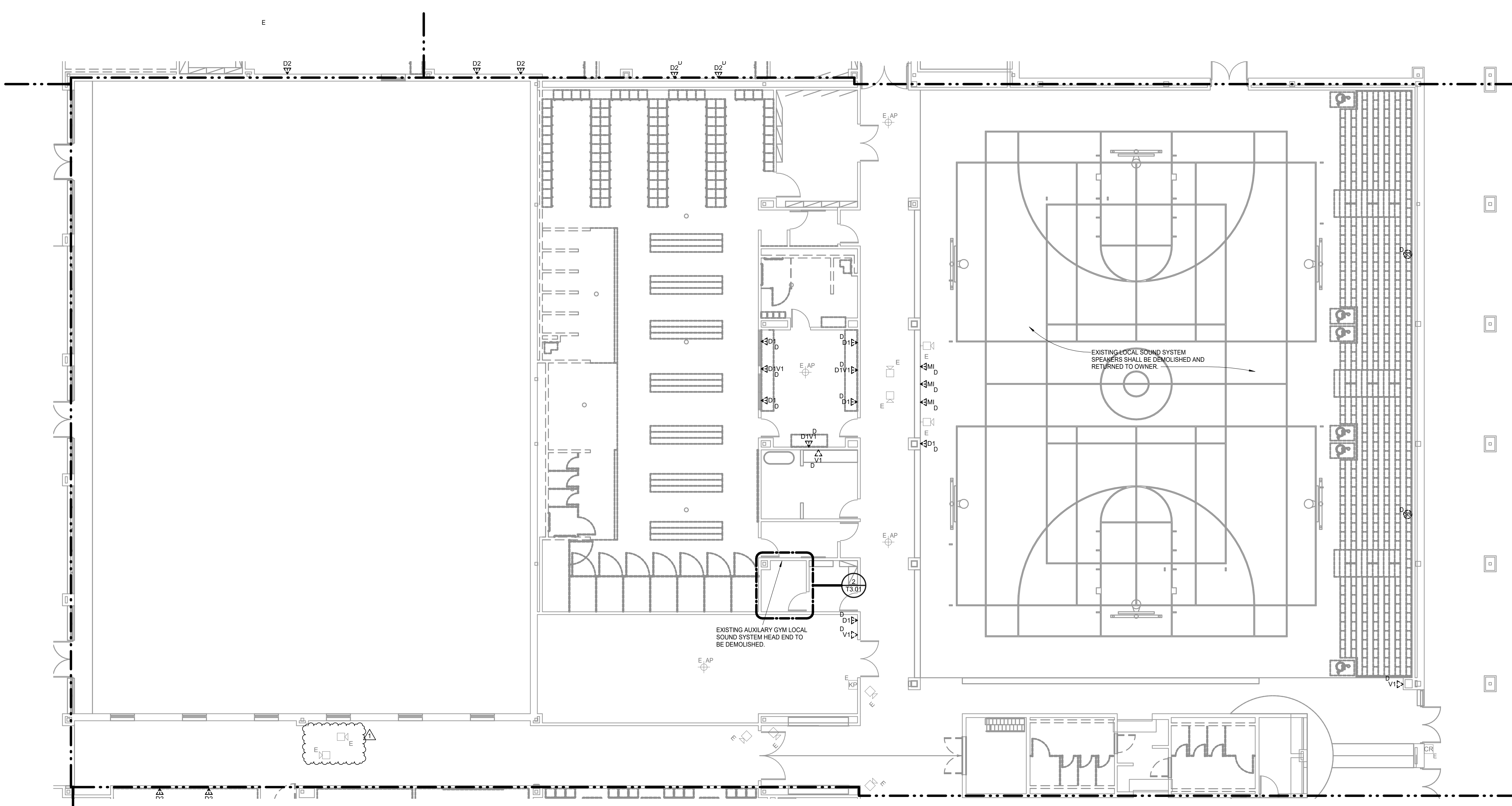
RESPONSIBILITY MATRIX
Table with columns: SCOPE ITEM, RESPONSIBILITY, NOTES

KEY PLAN:

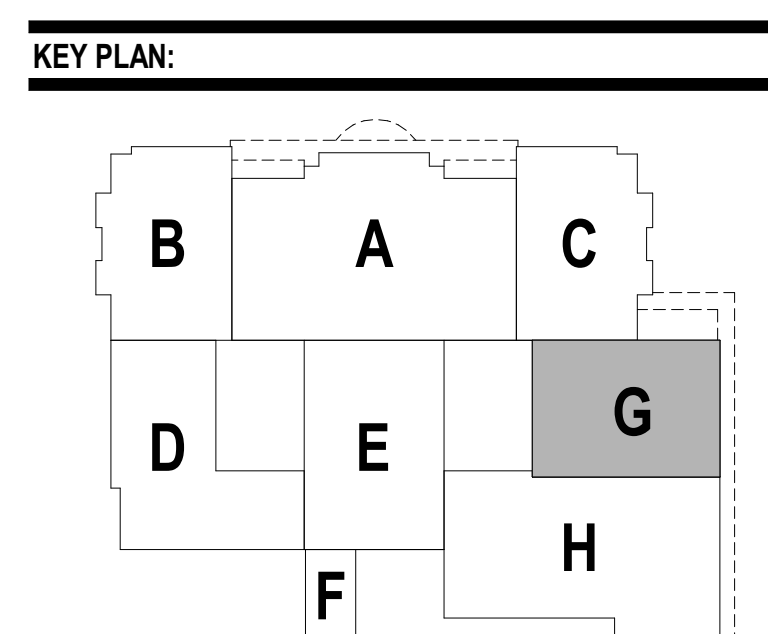


**TECH DEMO PLAN GENERAL NOTES**

- A CONTRACTOR SHALL PROVIDE NEW CEILING TILES IN INSTANCES WHERE CEILING DEVICES ARE REMOVED, REPLACED OR ADDED. CONTRACTOR SHALL COORDINATE WITH ARCHITECT ON CORRECT MANUFACTURER AND MODEL PRIOR TO REMOVAL OF EXISTING TILE.
- B CONTRACTOR SHALL HAVE EACH LOW VOLTAGE SYSTEM TESTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SYSTEMS SHALL INCLUDE BUT NOT BE LIMITED TO:
  - 1) FIRE ALARM
  - 2) INTERCOM
  - 3) STRUCTURED CABLING
  - 4) INTRUSION DETECTION
  - 5) ACCESS CONTROL
  - 6) AUDIO VIDEO
  - 7) VIDEO SURVEILLANCE
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- C CONTRACTOR SHALL REMOVE ANY DEVICES WHERE CONSTRUCTION OCCURS TO PREVENT POSSIBLE DAMAGE TO THE DEVICE. REMOVAL OF ANY DEVICES WHICH SUPPORT USER CONNECTION OR OTHER SYSTEMS, SHALL BE COORDINATED WITH THE OWNER PRIOR TO REMOVAL, AND/OR TAKING OFF LINE. REMOVAL SHALL CONSIST OF BUT NOT BE LIMITED TO THE FOLLOWING DEVICES AND ASSOCIATED SUPPORT INFRASTRUCTURE:
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  - 4) TELEPHONES
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- E ANY INDIVIDUAL THAT WILL BE REMOVING, RELOCATING, REINSTALLING, AND/OR TAMPERING WITH ANY EXISTING DEVICES, SHALL BE CERTIFIED BY THE MANUFACTURER OF THE SPECIFIC SYSTEM AND/OR LICENSED AS REQUIRED BY THE STATE TO PERFORM WORK ON THE SYSTEM. THE INDIVIDUAL SHALL BE A FULL-TIME EMPLOYEE OF THE FIRM CONTRACTED TO CONDUCT SUCH WORK ON THE PROJECT AND THAT FIRM SHALL ALSO HOLD ANY CERTIFICATIONS AND/OR LICENSES REQUIRED TO CONDUCT WORK ON THE SPECIFIC SYSTEM.
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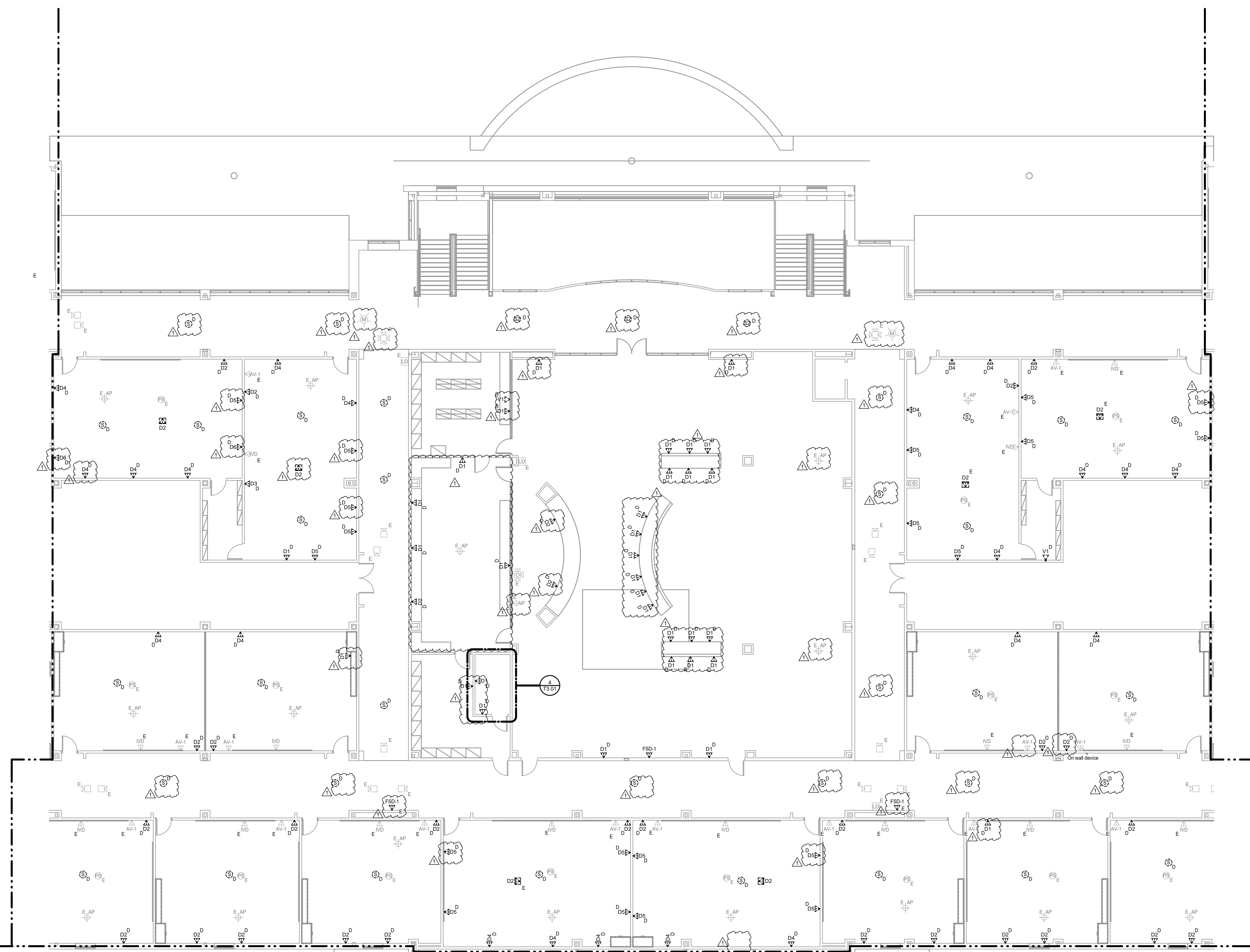
**1 TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 1 - AREA G**  
 Scale: 1/8" = 1'-0"



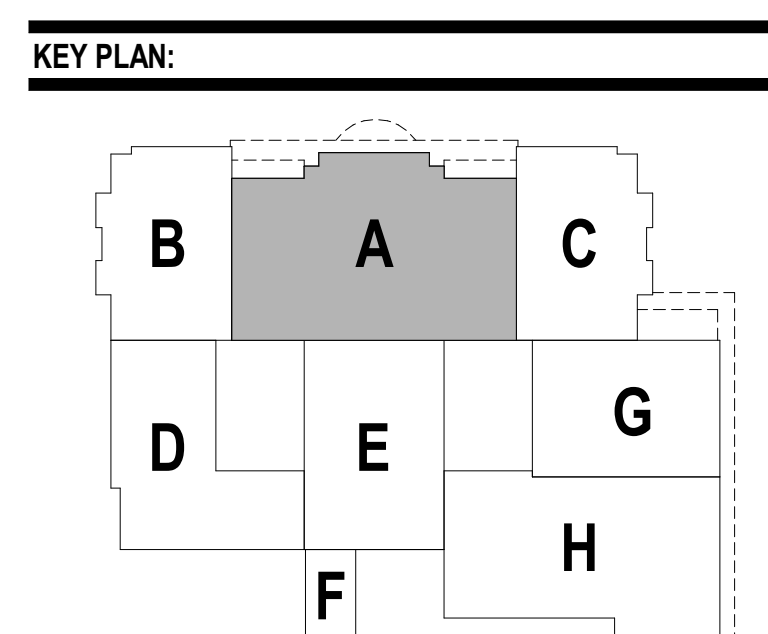


**TECH DEMO PLAN GENERAL NOTES**

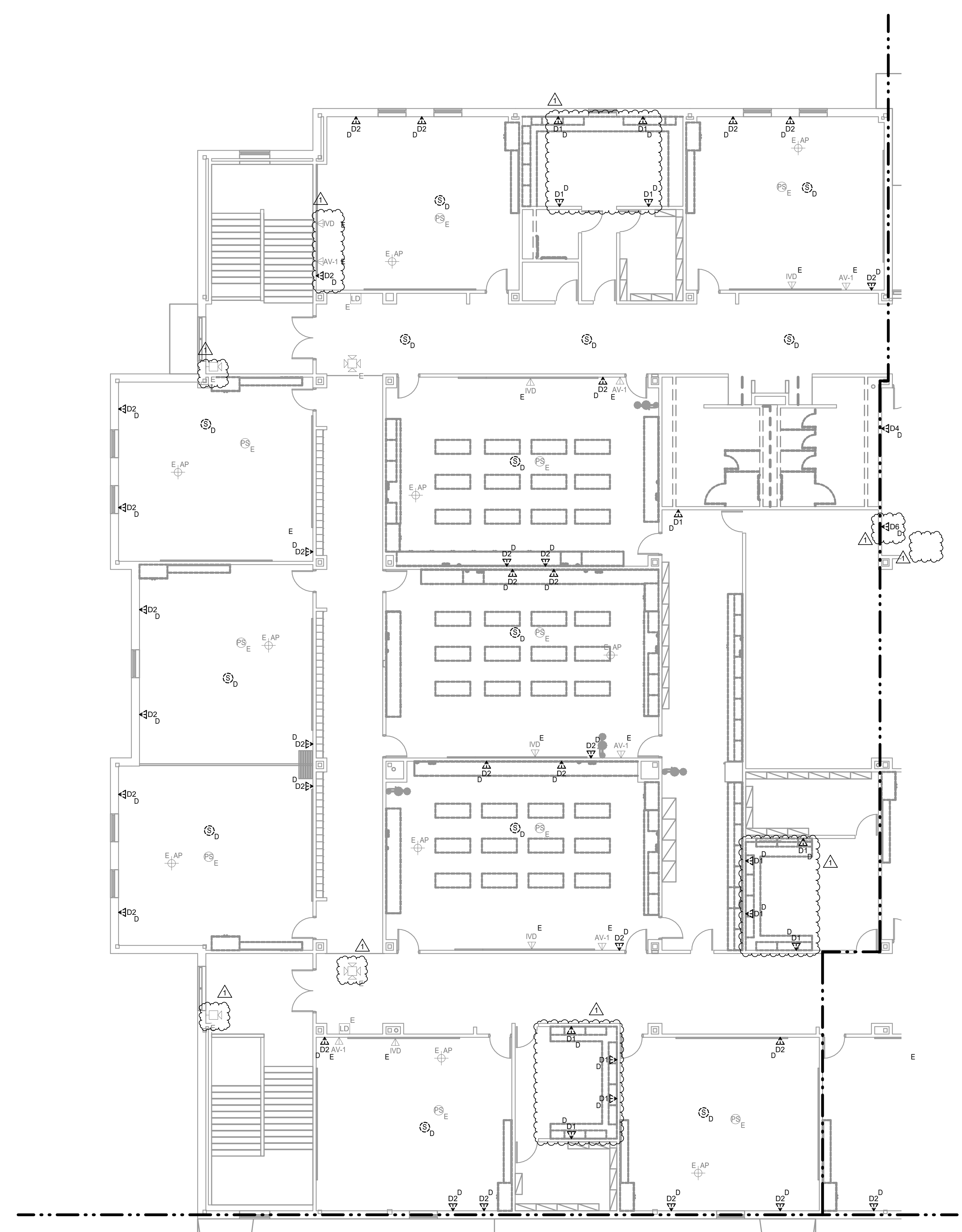
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 4) TELEPHONES  
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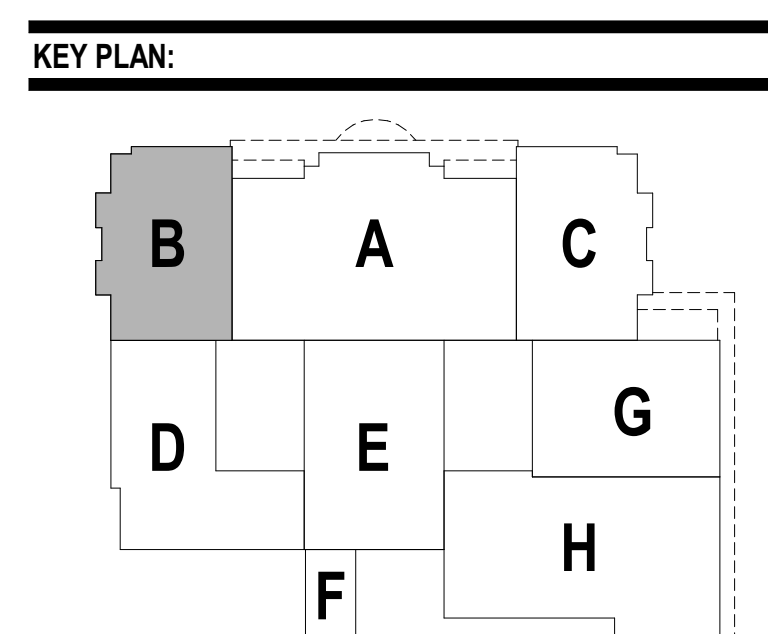
**1 TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 2 - AREA A**  
 Scale: 1/8" = 1'-0"



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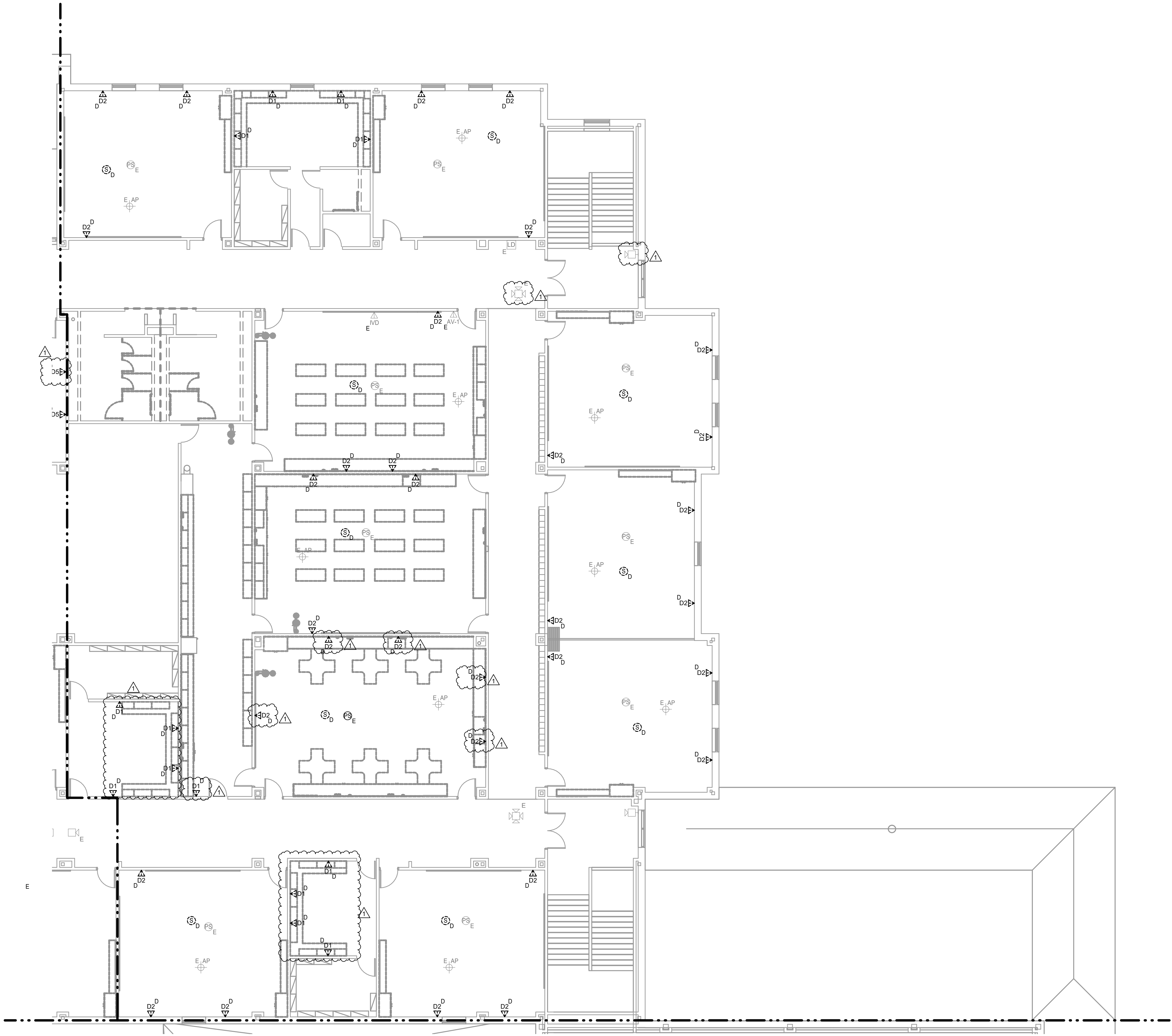
**1 TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 2 - AREA B**  
 Scale: 1/8" = 1'-0"



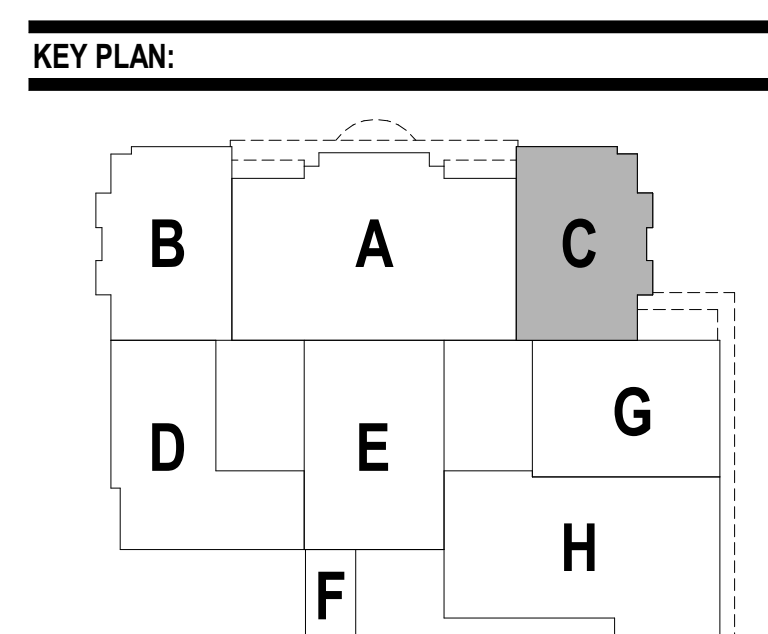


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 TOPCAT LIGHTSPEED SPEAKER, BASE STATION AND ANY OTHER SYSTEM COMPONENTS SHALL BE TAGGED BY CONTRACTOR WITH ROOM NAME AND NUMBER AND BE REINSTALLED IN THE SAME ROOM IT WAS REMOVED FROM.
- K CONTRACTOR TO COORDINATE WITH CFISD TECHNOLOGY DEPARTMENT PRIOR TO CONSTRUCTION ON WHICH DEVICES ARE TO BE REMOVED BY THE OWNER'S VENDOR IN ORDER TO PREVENT VOID OF WARRANTY.
- L ALL DEMO DEVICES WITH 'D' SUBSCRIPT SHALL DISCONNECT AND REMOVE EXISTING WIRING DEVICE BACK TO SWITCH, PATCH WALL TO MATCH EXISTING.
- M ALL EXISTING INTERCOM SPEAKERS AND DEVICES SHALL BE DEMOLISHED IN INTERCOM SYSTEM SCOPE OF PROJECT. EXISTING CONDITIONS ARE BASED ON CASUAL FIELD OBSERVATIONS AND ARE TO BE USED AS REFERENCE ONLY.



**1 TECHNOLOGY DEMOLITION FLOOR PLAN - LEVEL 2 - AREA C**  
 Scale: 1/8" = 1'-0"



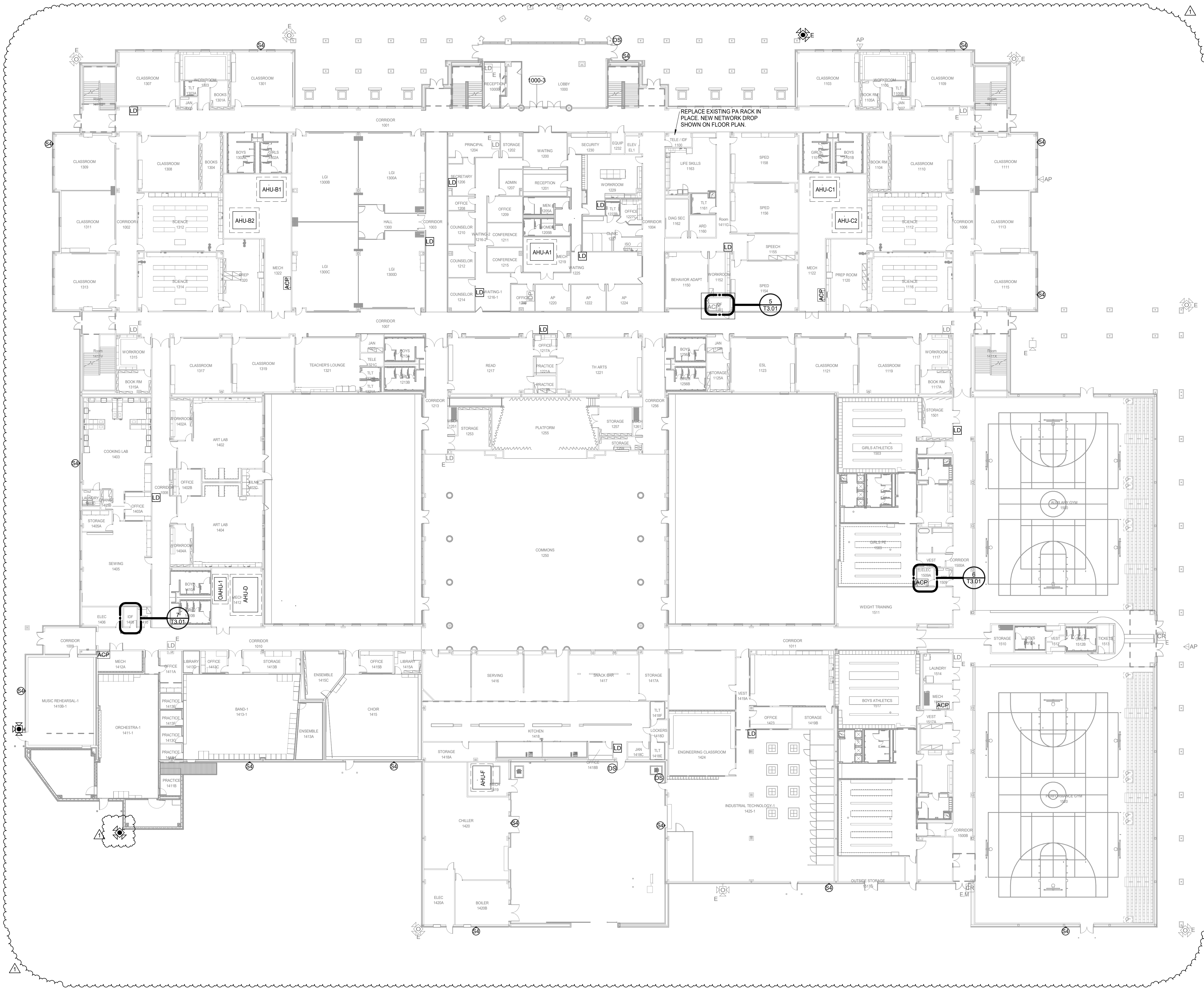
**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFISD PROJECT NO: 24-02-5750-R-RFP

T. ADDENDUM #2 01/16/25  
 Revisions / Submission

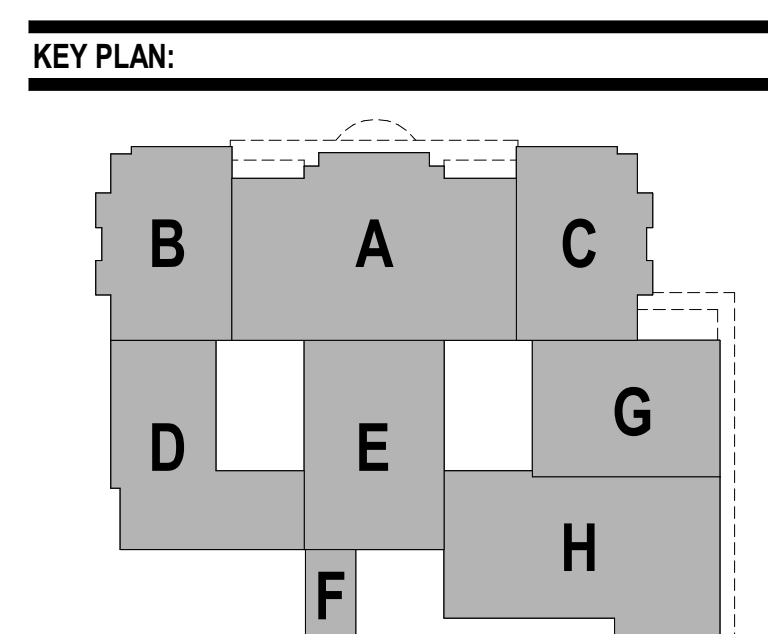
Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: NY

**TECHNOLOGY**  
**DEMOLITION SECOND**  
**FLOOR PLAN - AREA 'C'**

**T0.11**



**1 TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 1**  
 Scale: 1" = 20'-0"



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFISD PROJECT NO: 24-02-5750-R-RFP

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: NY  
**TECHNOLOGY COMPOSITE FIRST FLOOR PLAN**  
**T1.00**



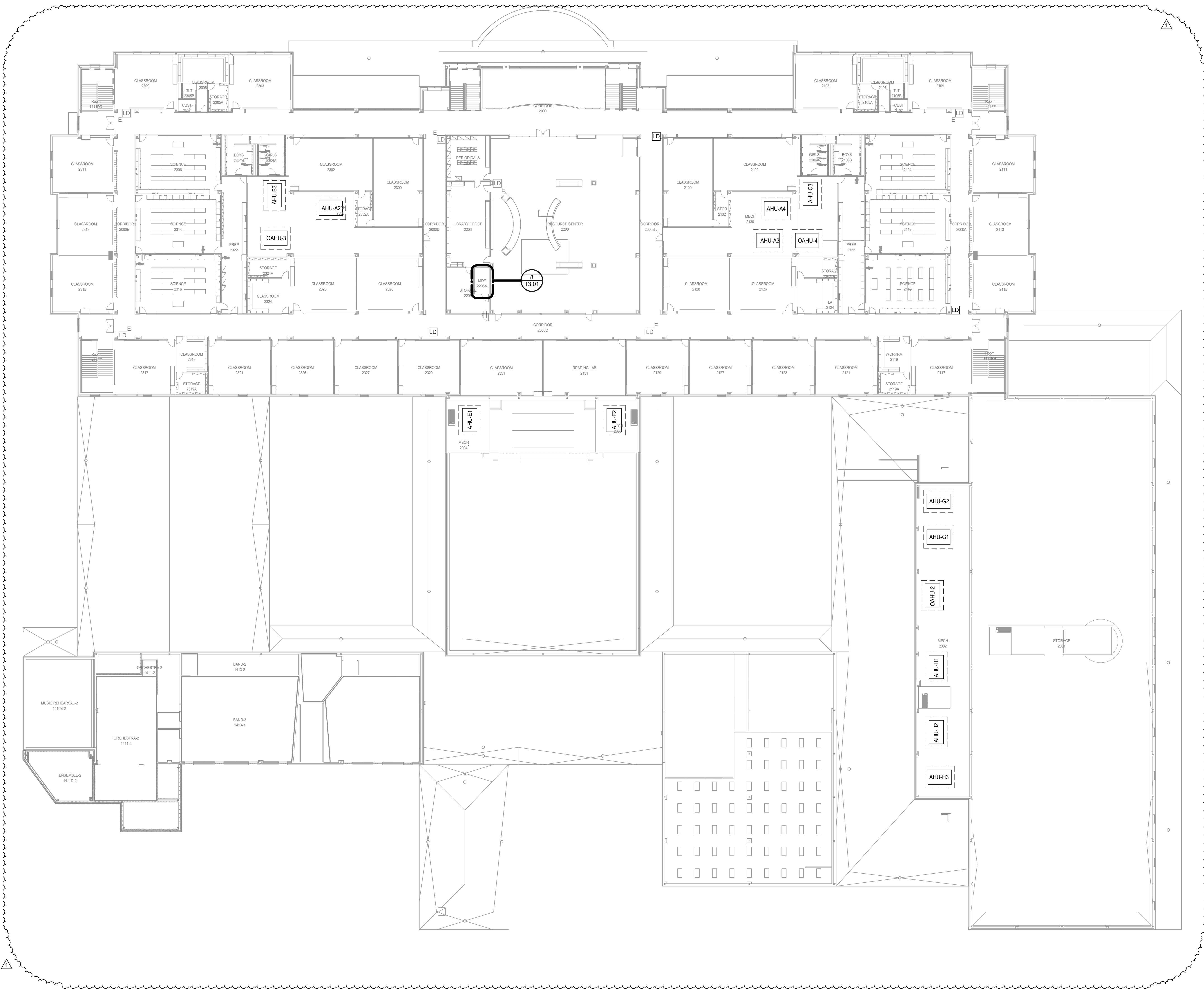
**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFSD PROJECT NO: 24-02-5750-R-RFP

Revision / Submission	ADDENDUM #2	01/16/25
1.		

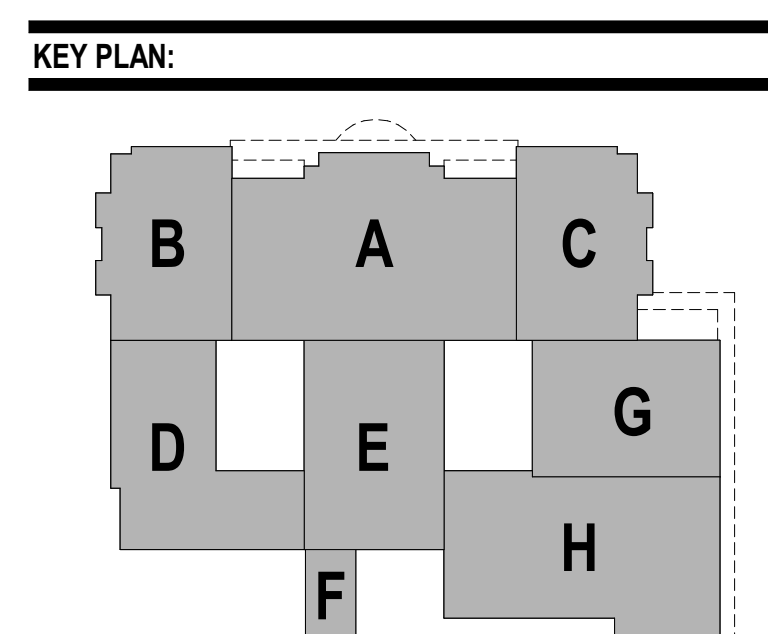
Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: NY

**TECHNOLOGY**  
**COMPOSITE SECOND**  
**FLOOR PLAN**

**T1.01**



**1 TECHNOLOGY COMPOSITE FLOOR PLAN - LEVEL 2**  
 Scale: 1" = 20'-0"

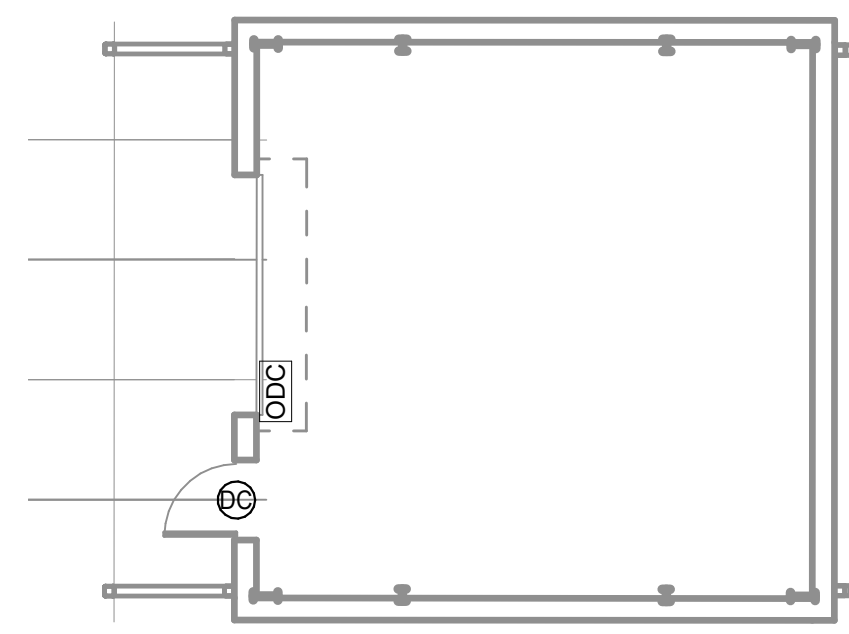


Revision	Submission
1.	ADDENDUM #2 01/16/25

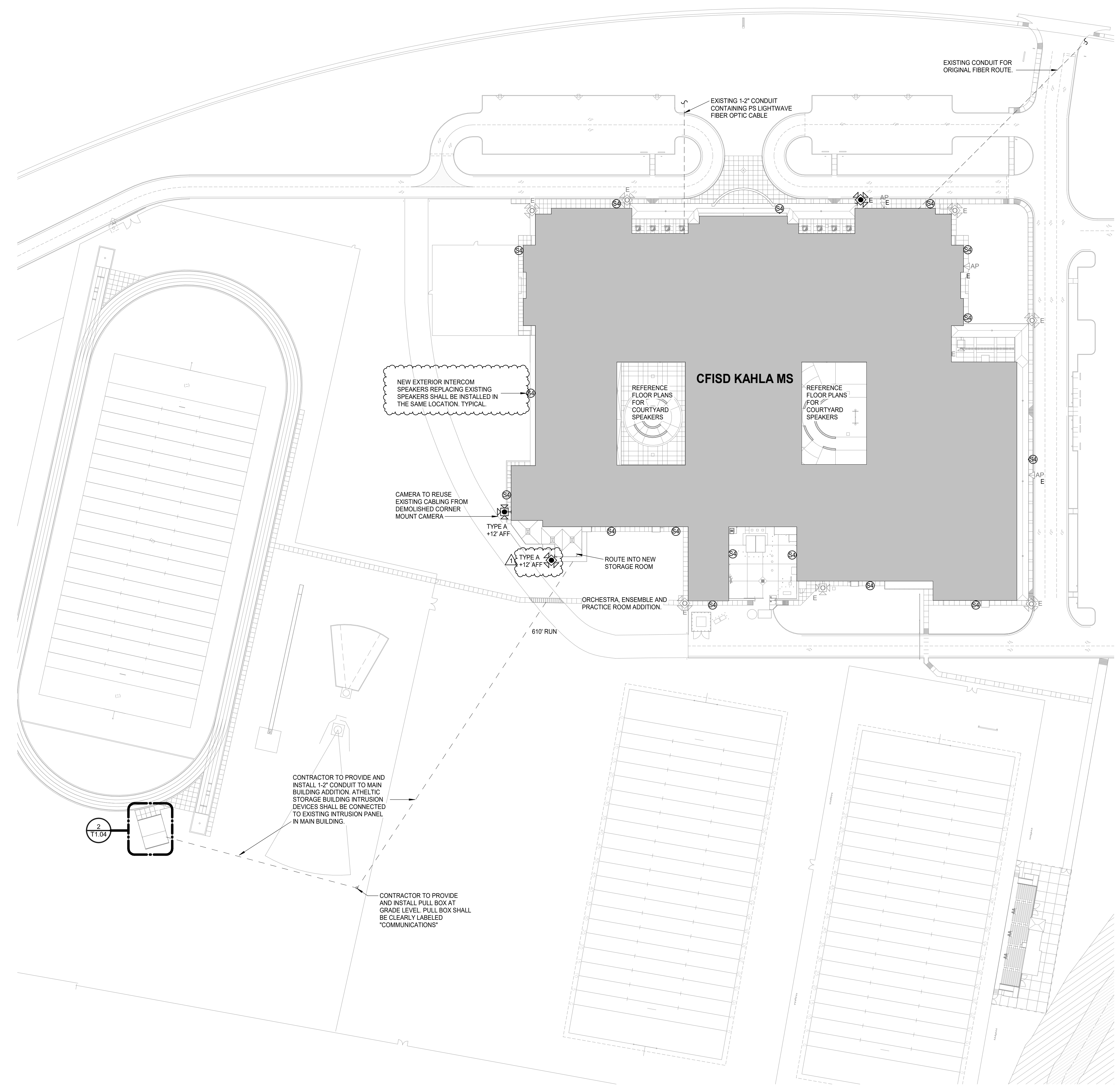
Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: NY

TECHNOLOGY SITE PLAN - NEW

**T1.04**

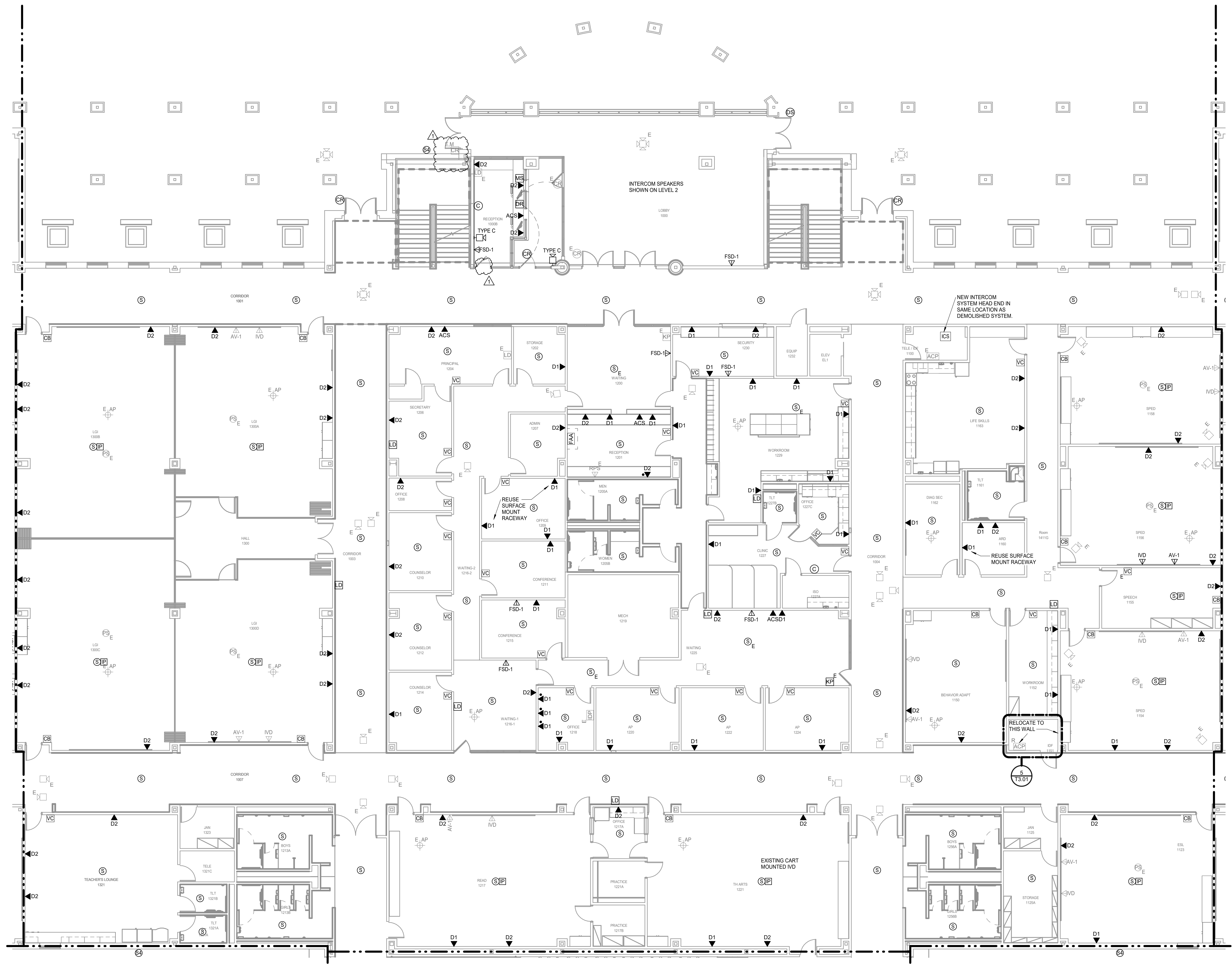


**2 TECHNOLOGY FLOOR PLAN - LEVEL 1 - ATHLETIC STORAGE**  
 Scale: 1/8" = 1'-0"



**1 TECHNOLOGY SITE PLAN**  
 Scale: 1" = 50'-0"





**FIRE ALARM**

A FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28.46.00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

**TECHNOLOGY PLAN GENERAL NOTES**

A COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.

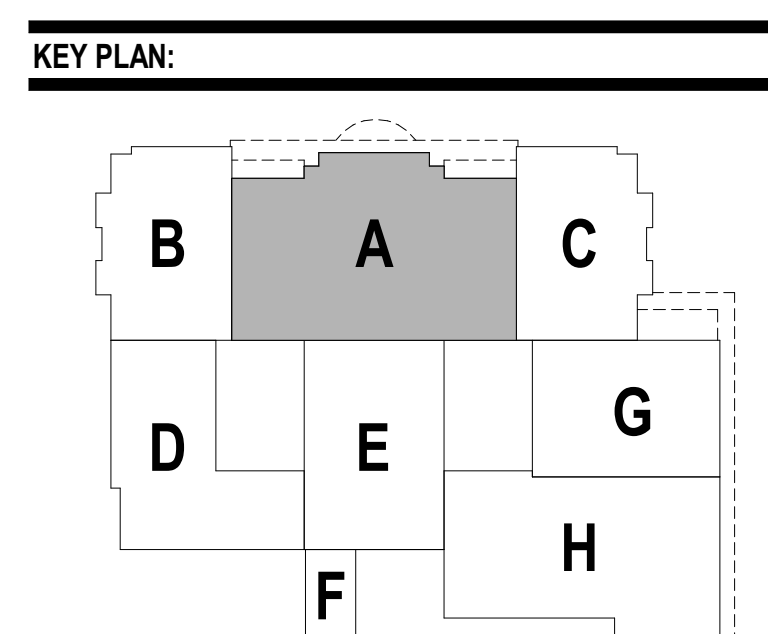
B COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT (IF APPLICABLE) PRIOR TO ROUGH-IN.

C REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE/ROUTING PLANS, NOTES & LEGENDS, DETAILS AND SCHEDULES FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.

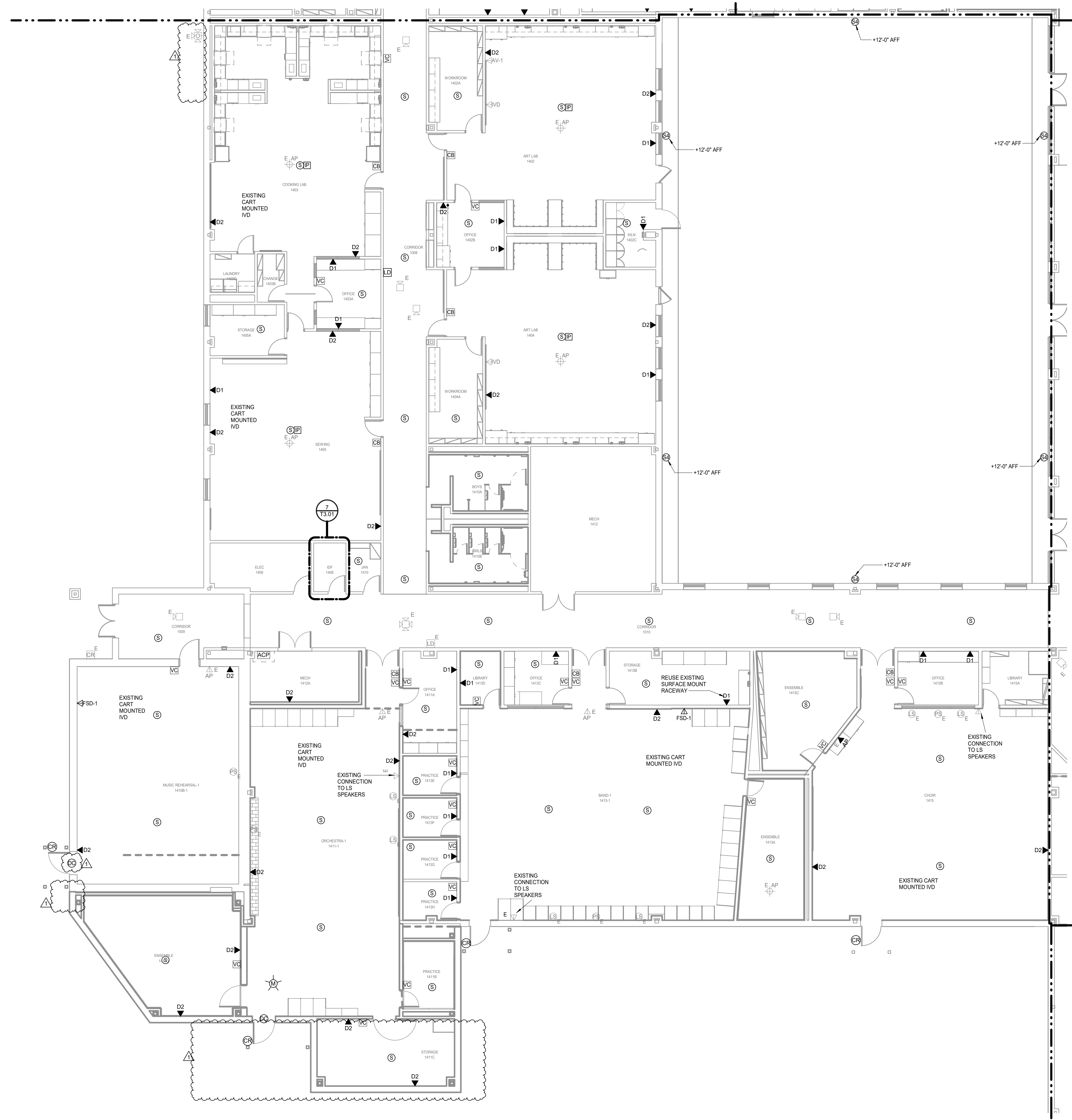
D CONTRACTOR TO COORDINATE INTERCOM SPEAKER MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL SPEAKER SELECTION. COORDINATE WITH ENGINEER ON ANY DISCREPANCIES.

E CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.

F REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.



**1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA A**  
Scale: 1/8" = 1'-0"



**1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA D**  
 Scale: 1/8" = 1'-0"

**FIRE ALARM**

A FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 46 00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

**TECHNOLOGY PLAN GENERAL NOTES**

A COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.

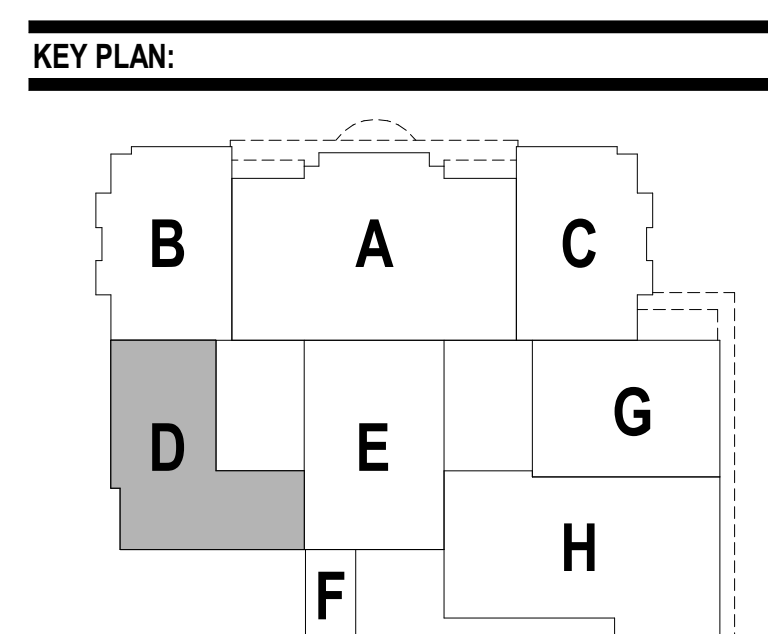
B COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT (IF APPLICABLE) PRIOR TO ROUGH-IN.

C REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE/ROUTING PLANS, NOTES & LEGENDS, DETAILS AND SCHEDULES FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.

D CONTRACTOR TO COORDINATE INTERCOM SPEAKER MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL SPEAKER SELECTION. COORDINATE WITH ENGINEER ON ANY DISCREPANCIES.

E CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.

F REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFSID PROJECT NO: 24-02-5750-R-RFP

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: NY

**TECHNOLOGY FIRST FLOOR PLAN - AREA 'D'**

**T2.04**





**Salas O'Brien**  
 salasobrien.com 281-664-1900  
 Houston  
 10930 W. Sam Houston Pkwy North, Suite 900  
 Houston, TX 77064  
 Registration: F-4111  
 Project No: 2024-00211-00 CHECKED BY: AV

**NATEX**  
 CORPORATION  
 ARCHITECTS  
 www.nateearchitects.com  
 447 Heights Boulevard  
 Houston, TX 77007  
 Phone: 713-975-9525  
 Fax: 713-780-7824

**Coleman Partners**  
 ARCHITECTS  
 cpa@cpa.com  
 3701 Kirby Drive, Suite 830  
 Houston, TX 77098  
 Tel: 832.947.1038 Fax: 281.214.5365

**BID DOCUMENTS**

*Bradley Kalmans*  
 80219  
 CIVIL ENGINEER  
 BROOKS AND SPARKS, INC.  
 21020 PARK ROW  
 KATY, TX 77449  
 Tel: 281.578.9595

**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
 9800 RICHMOND AVE.  
 SUITE 400  
 HOUSTON, TX 77042  
 Tel: 713.337.8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
 10930 W. SAM HOUSTON PKWY. N.  
 SUITE 900  
 HOUSTON, TX 77064  
 Tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
 25317 INTERSTATE 45  
 THE WOODLANDS, TX 77380  
 Tel: 281.350.2323

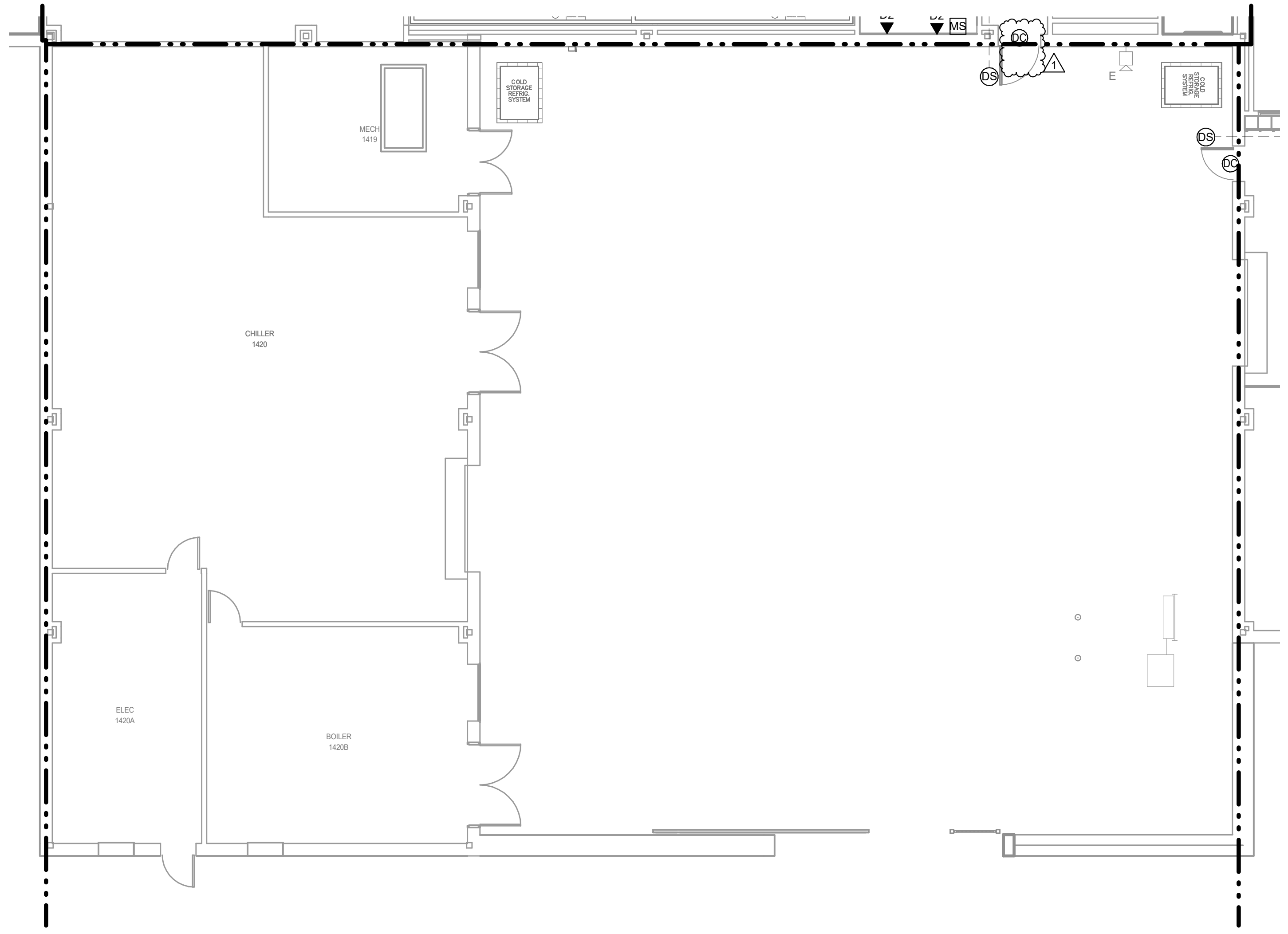
**LANDSCAPE**  
**LANDSCAPE GROUP**  
 17041 EL CAMINO REAL, STE 204  
 HOUSTON, TX 77058  
 Tel: 281.486.4040

**FIRE ALARM**

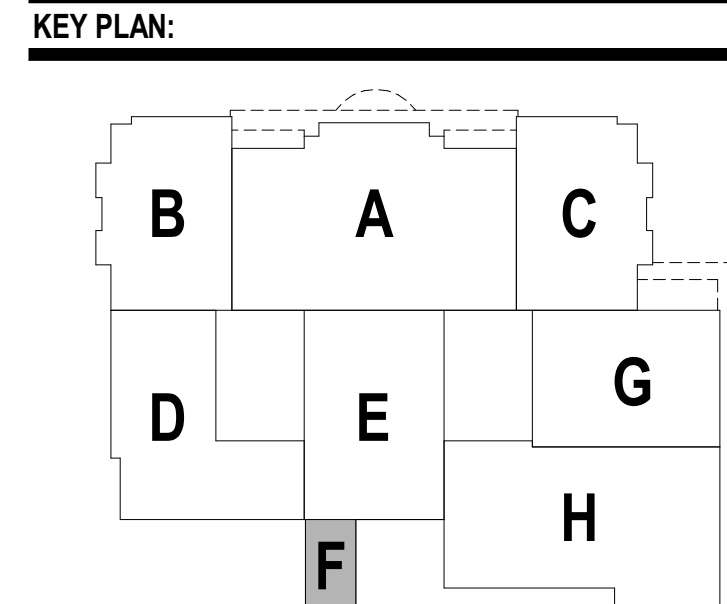
A	FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 46 00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
B	A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

**TECHNOLOGY PLAN GENERAL NOTES**

A	COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.
B	COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT (IF APPLICABLE) PRIOR TO ROUGH-IN.
C	REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE/ROUTING PLANS, NOTES & LEGENDS, DETAILS AND SCHEDULES FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.
D	CONTRACTOR TO COORDINATE INTERCOM SPEAKER MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL SPEAKER SELECTION. COORDINATE WITH ENGINEER ON ANY DISCREPANCIES.
E	CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.
F	REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.



**1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA F**  
 Scale: 1/8" = 1'-0"



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFISD PROJECT NO: 24-02-5750-R-RFP

1. ADDENDUM #2	01/16/25	Revisions / Submission
Project Number:	23072	
Date:	29 DECEMBER 2024	
Drawn by:	NY	
<b>TECHNOLOGY FIRST FLOOR PLAN - AREA 'F'</b>		
<b>T2.06</b>		

**TECHNOLOGY PLAN KEYED NOTES**

- 1 NETWORK OUTLET RESERVED FOR AV SYSTEM HEAD END RACK. COORDINATE WITH AV CONSULTANT DRAWINGS ON FINAL AV RACK LOCATION.
- 2 FIRE ALARM CONTRACTOR TO PROVIDE A CONTACT CLOSURE TO THE AUDIO-VIDEO RACK FOR EMERGENCY MUTING OF AUDIO SYSTEM WHEN SYSTEM IS IN ALARM.
- 3 INTERCOM CONTRACTOR TO PROVIDE A CONTACT CLOSURE TO THE AUDIO-VIDEO RACK FOR LOCKDOWN EMERGENCY MUTING OF AUDIO SYSTEM WHEN SYSTEM IS IN ALARM.
- 4 DATA CONNECTION RESERVED FOR FREEZER/COOLER MONITORING.

**FIRE ALARM**

A FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28.46.00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

B A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.

**TECHNOLOGY PLAN GENERAL NOTES**

A COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.

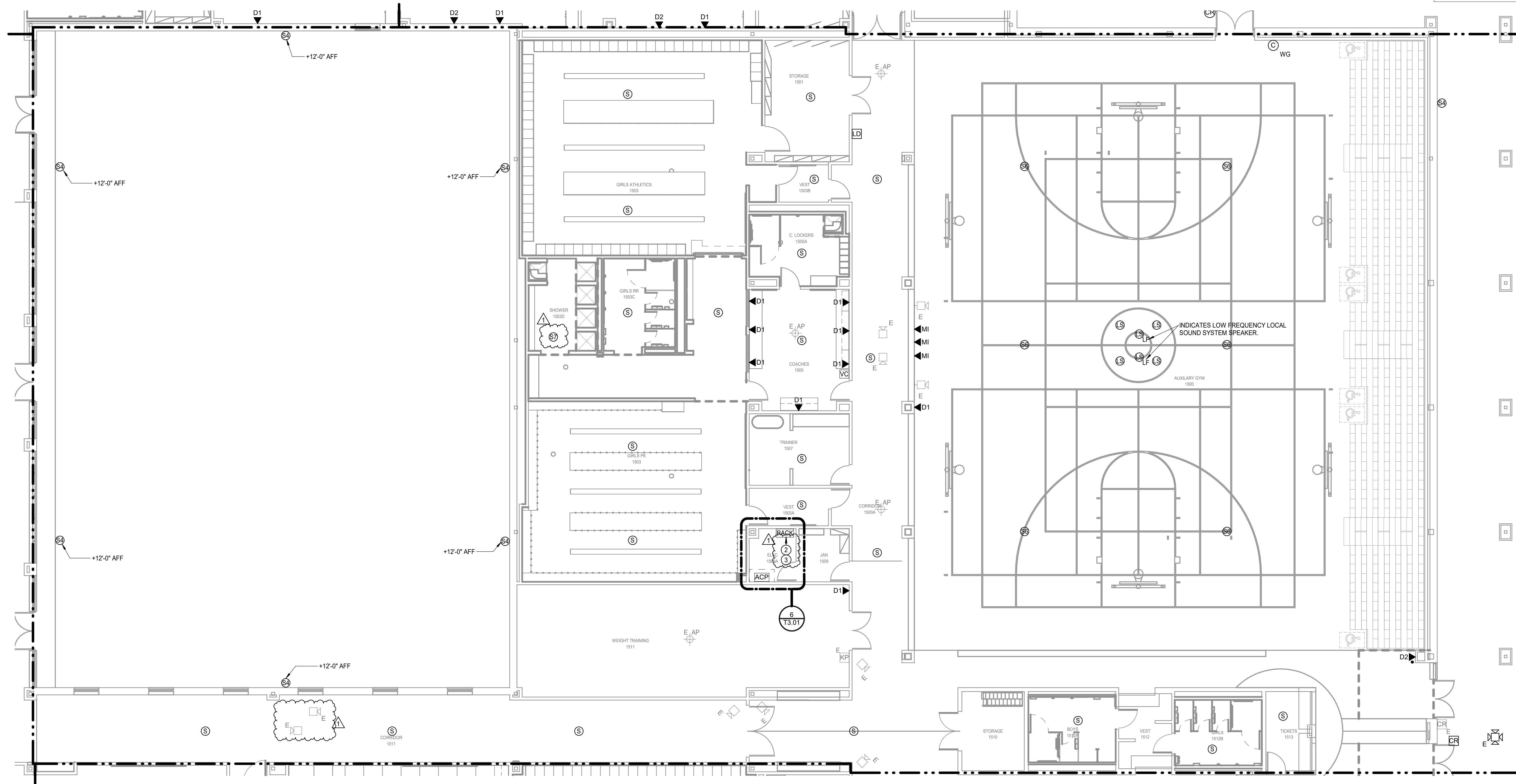
B COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT (IF APPLICABLE) PRIOR TO ROUGH-IN.

C REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE/ROUTING PLANS, NOTES & LEGENDS, DETAILS AND SCHEDULES FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.

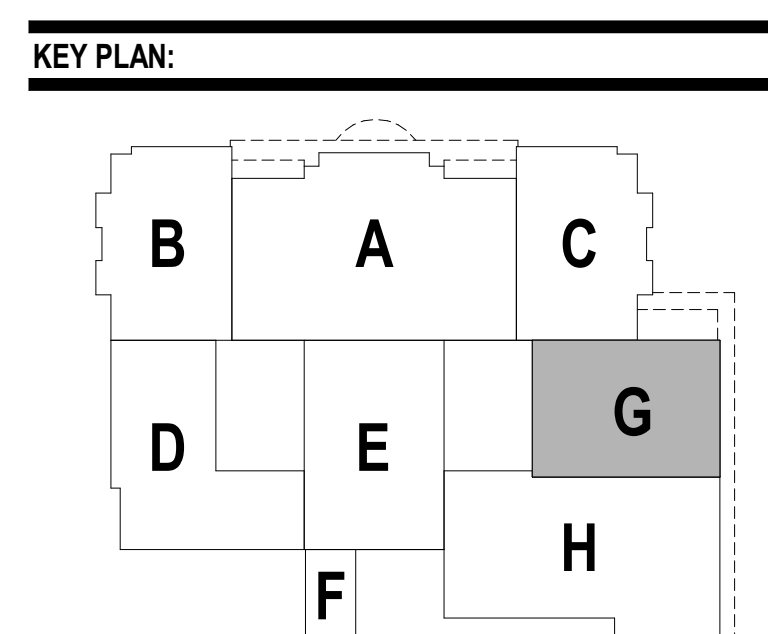
D CONTRACTOR TO COORDINATE INTERCOM SPEAKER MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL SPEAKER SELECTION. COORDINATE WITH ENGINEER ON ANY DISCREPANCIES.

E CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.

F REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.



**1 TECHNOLOGY FLOOR PLAN - LEVEL 1 - AREA G**  
 Scale: 1/8" = 1'-0"



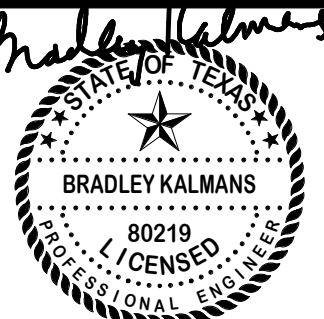
**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFSID PROJECT NO: 24-02-5750-R-RFP

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: NY  
**TECHNOLOGY FIRST FLOOR PLAN - AREA 'G'**  
**T2.07**





**BID DOCUMENTS**



01/16/2025

**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFSID PROJECT NO: 24-02-5750-R-RFP

1.	ADDENDUM #2	01/16/25
Revisions / Submission		

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: NY

TECHNOLOGY FIRST FLOOR PLAN - AREA 'H'

T2.08

**TECHNOLOGY PLAN KEYED NOTES**

- 1 NETWORK OUTLET RESERVED FOR AV SYSTEM HEAD END RACK. COORDINATE WITH AV CONSULTANT DRAWINGS ON FINAL AV RACK LOCATION.
- 2 FIRE ALARM CONTRACTOR TO PROVIDE A CONTACT CLOSURE TO THE AUDIO-VIDEO RACK FOR EMERGENCY MUTING OF AUDIO SYSTEM WHEN SYSTEM IS IN ALARM.
- 3 INTERCOM CONTRACTOR TO PROVIDE A CONTACT CLOSURE TO THE AUDIO-VIDEO RACK FOR LOCKDOWN EMERGENCY MUTING OF AUDIO SYSTEM WHEN SYSTEM IS IN ALARM.

**FIRE ALARM**

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**TECHNOLOGY PLAN GENERAL NOTES**

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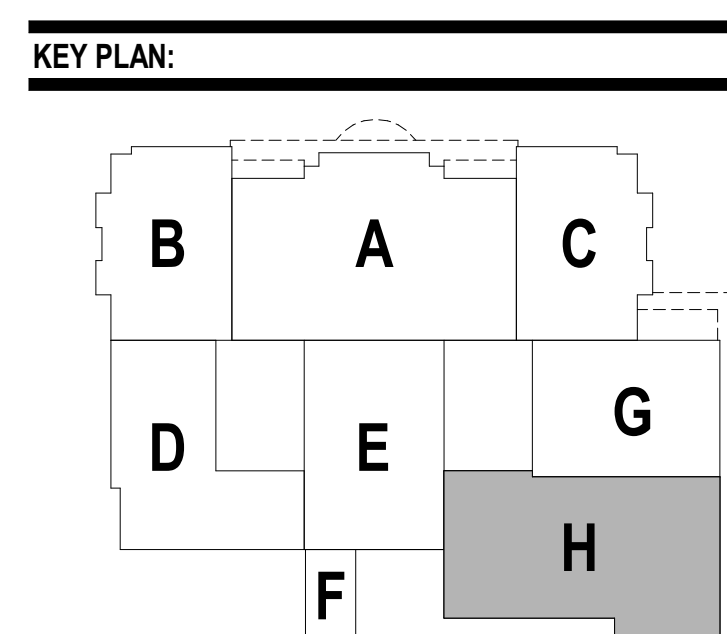
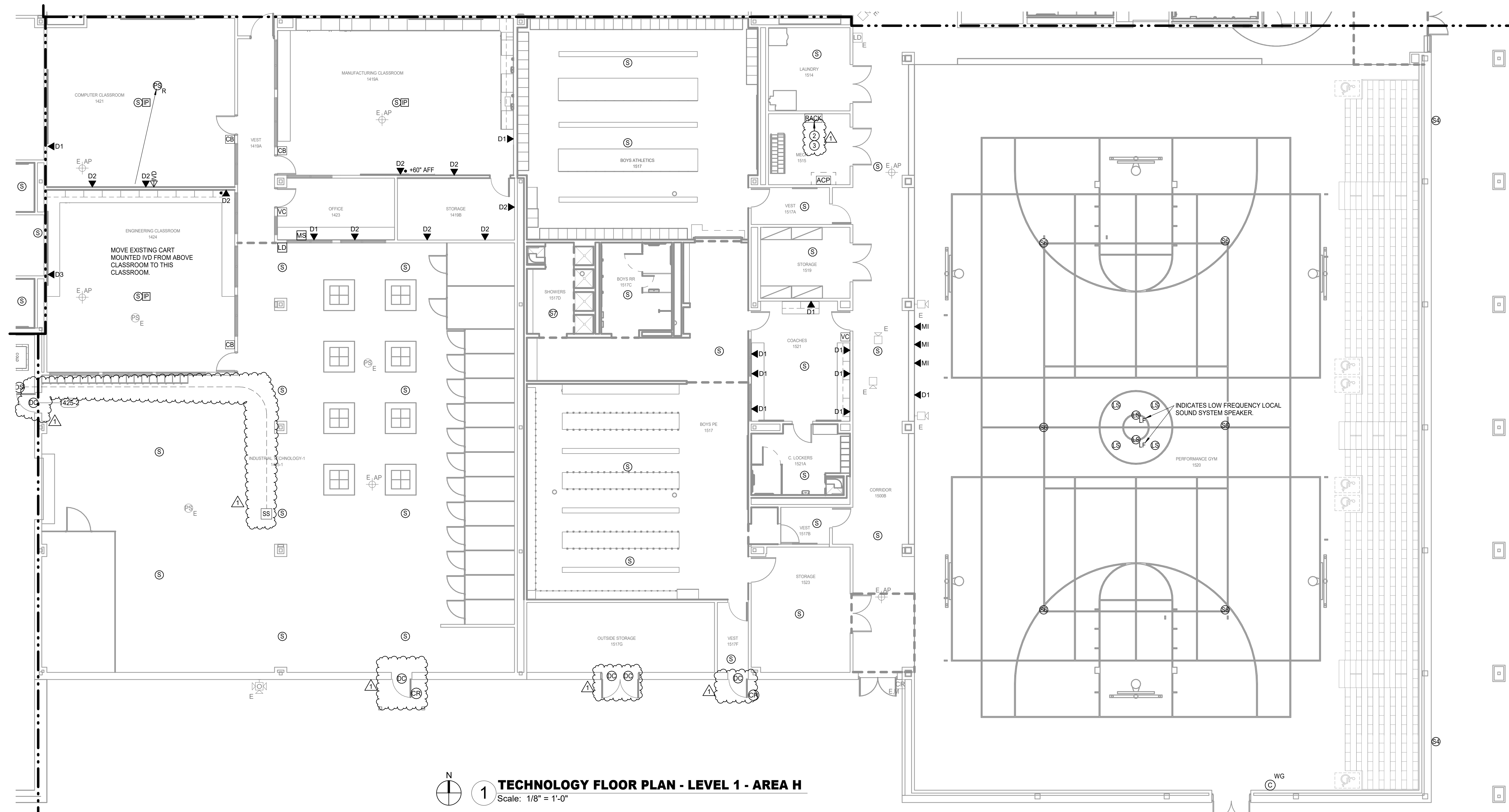
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E CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.

F REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.



**FIRE ALARM**

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**TECHNOLOGY PLAN GENERAL NOTES**

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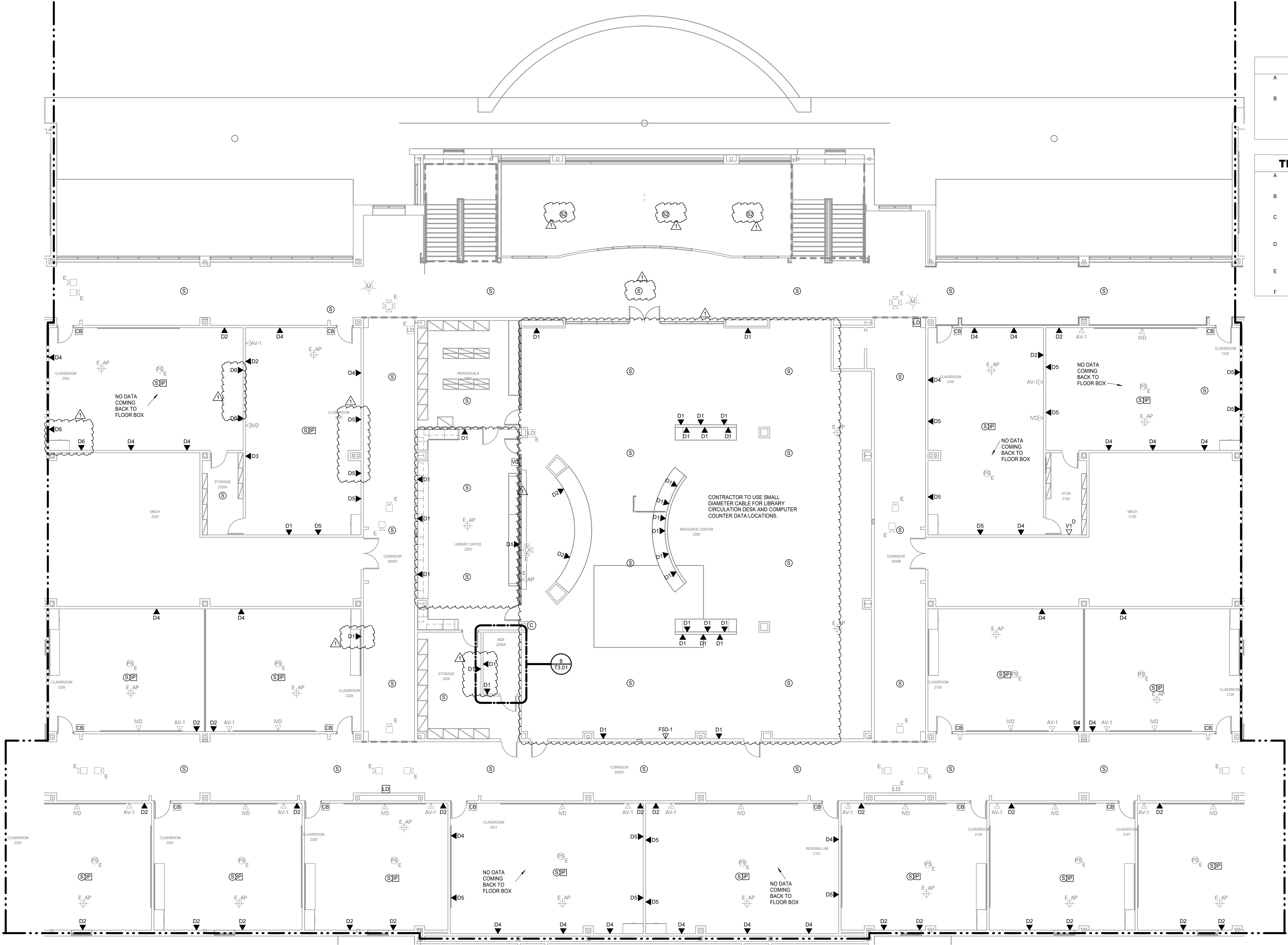
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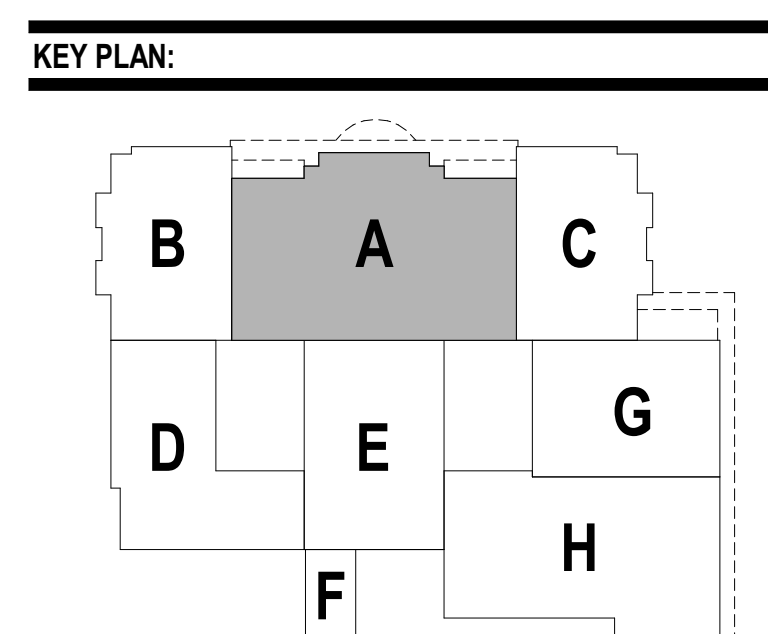
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E CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.

F REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.



**1 TECHNOLOGY FLOOR PLAN - LEVEL 2 - AREA A**  
 Scale: 1/8" = 1'-0"

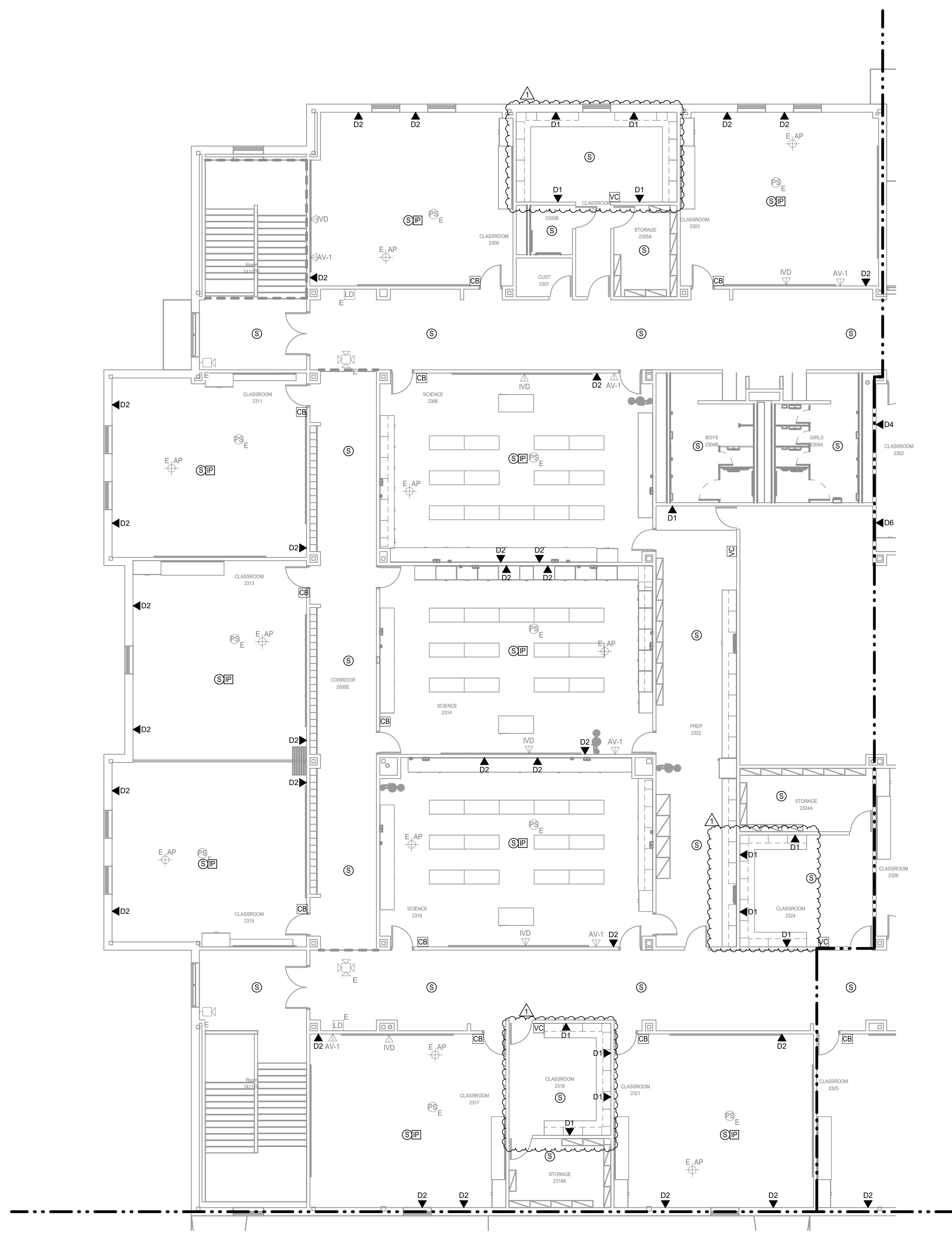


**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFSID PROJECT NO: 24-02-5750-R-RFP

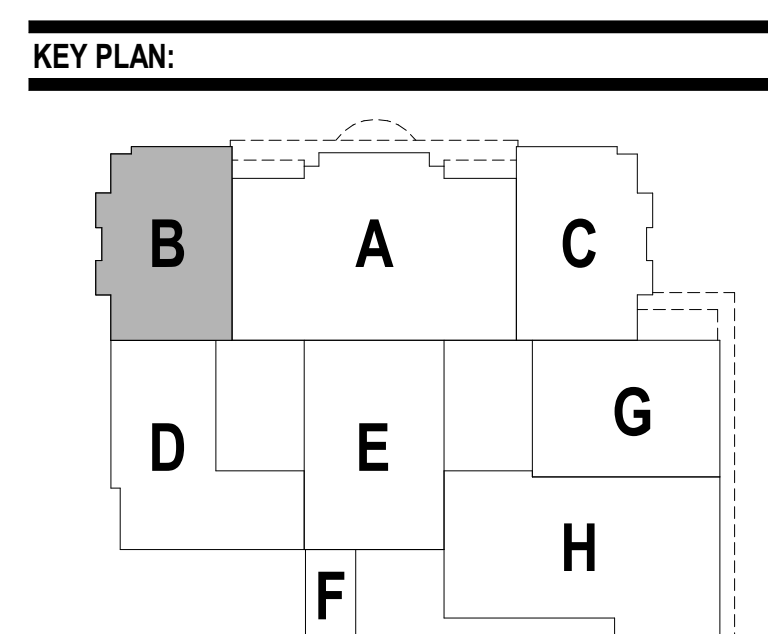
Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: NY

**T2.09**

- FIRE ALARM**
- A FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28.46.00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - B A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.
- TECHNOLOGY PLAN GENERAL NOTES**
- A COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.
  - B COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT (IF APPLICABLE) PRIOR TO ROUGH-IN.
  - C REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE/ROUTING PLANS, NOTES & LEGENDS, DETAILS AND SCHEDULES FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.
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  - E CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.
  - F REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.



**1 TECHNOLOGY FLOOR PLAN - LEVEL 2 - AREA B**  
 Scale: 1/8" = 1'-0"



**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFSID PROJECT NO: 24-02-5750-R-RFP

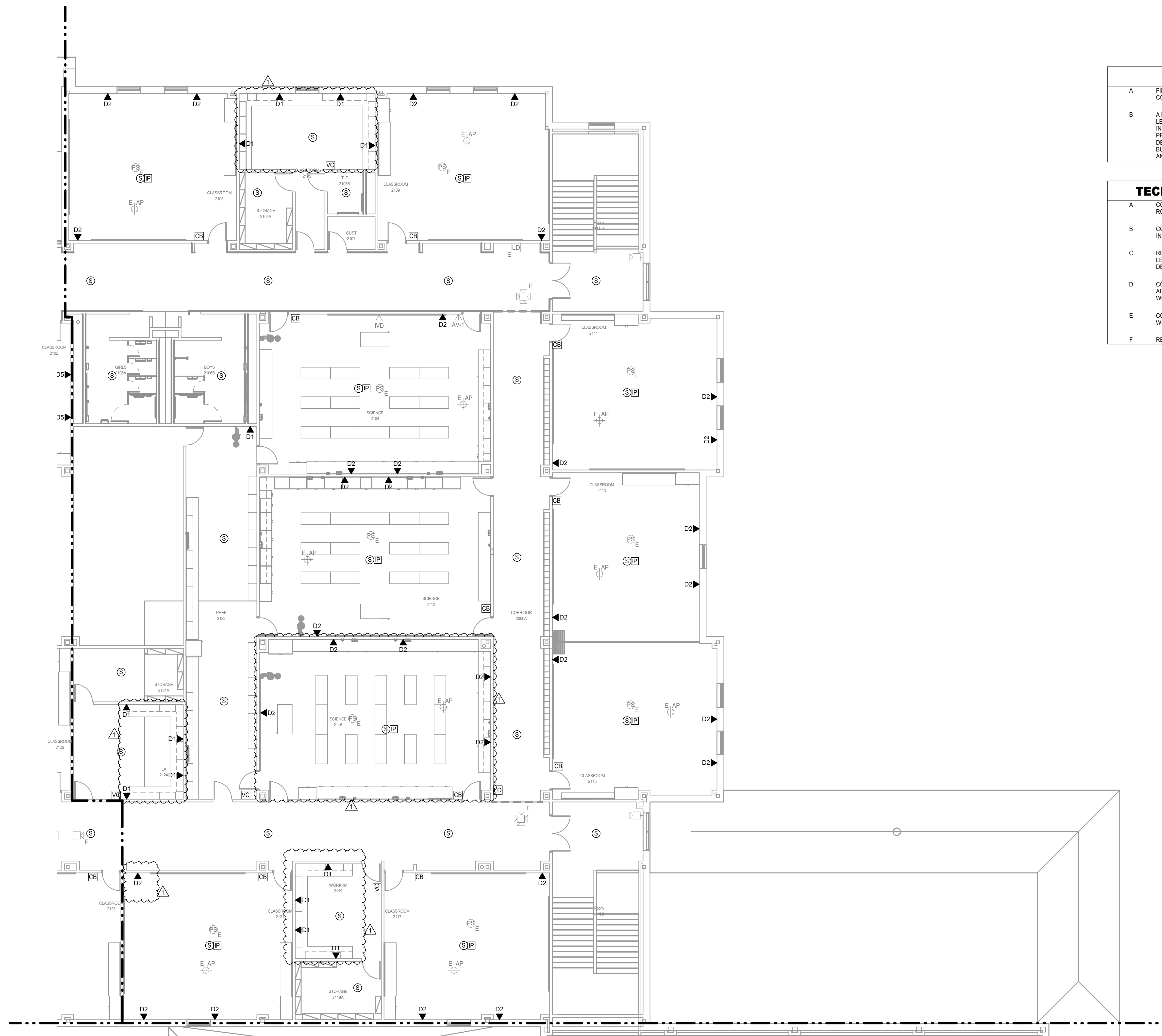
Revision / Submission	DATE
T_ADDENDUM#2	01/16/25

Project Number: 23072  
 Date: 29 DECEMBER 2024  
 Drawn by: NY

**TECHNOLOGY SECOND FLOOR PLAN - AREA 'B'**

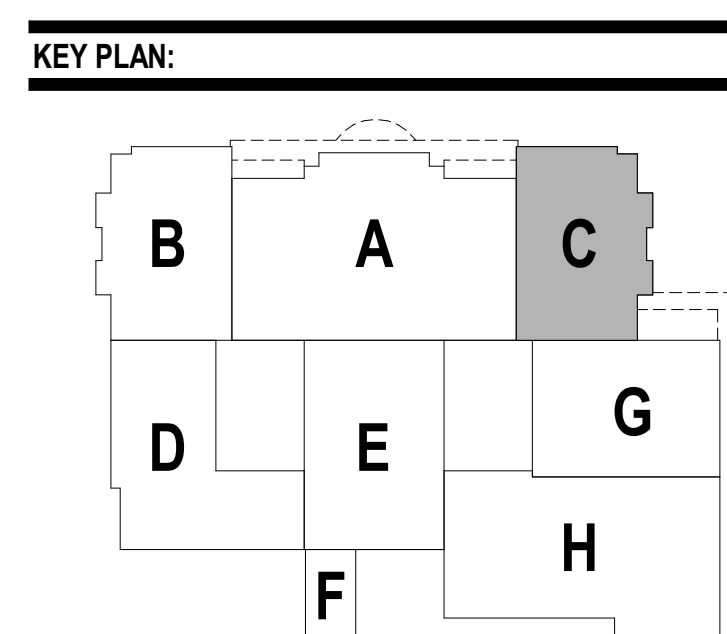
**T2.10**





**1 TECHNOLOGY FLOOR PLAN - LEVEL 2 - AREA C**  
 Scale: 1/8" = 1'-0"

- FIRE ALARM**
- A FIRE ALARM SYSTEM IS A PERFORMANCE BASED PER SPECIFICATIONS 28 46 00. CONTRACTOR TO REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  - B A LICENSED FIRE ALARM PLANNING SUPERINTENDENT CERTIFIED TO A MINIMUM LEVEL 3, IN THE SUBFIELD OF FIRE ALARM SYSTEMS THROUGH THE NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET), SHALL PROVIDE PLANS AND CALCULATIONS FOR A MANUAL AND AUTOMATIC FIRE DETECTION AND ALARM SYSTEM TO COMPLY WITH THE BUILDING SPACE LAYOUT, BUILDING OCCUPANCY, CURRENT NFPA 72, LOCAL AND STATE CODE REQUIREMENTS, AND THE FIRE ALARM AND DETECTION SYSTEM SPECIFICATIONS.
- TECHNOLOGY PLAN GENERAL NOTES**
- A COORDINATE ALL FINAL MOUNTING HEIGHTS, FOR WALL MOUNTED DEVICES, PRIOR TO ROUGH-IN. COORDINATE WITH ARCHITECT, OWNER AND ENGINEER.
  - B COORDINATE ALL CEILING DEVICE LOCATIONS WITH ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN CONSULTANT (IF APPLICABLE) PRIOR TO ROUGH-IN.
  - C REFERENCE TECHNOLOGY SITE PLAN, COMPOSITE/ROUTING PLANS, NOTES & LEGENDS, DETAILS AND SCHEDULES FOR ADDITIONAL INFORMATION AND DEVICE/OUTLET LOCATIONS.
  - D CONTRACTOR TO COORDINATE INTERCOM SPEAKER MOUNTING TYPES WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL SPEAKER SELECTION. COORDINATE WITH ENGINEER ON ANY DISCREPANCIES.
  - E CONTRACTOR TO COORDINATE ALL DROP LOCATIONS WITH FURNITURE. COORDINATE WITH ARCHITECT AND OWNER FOR MORE INFORMATION.
  - F REFERENCE DETAILS FOR LOCKDOWN BUTTON INSTALLATION INSTRUCTIONS.

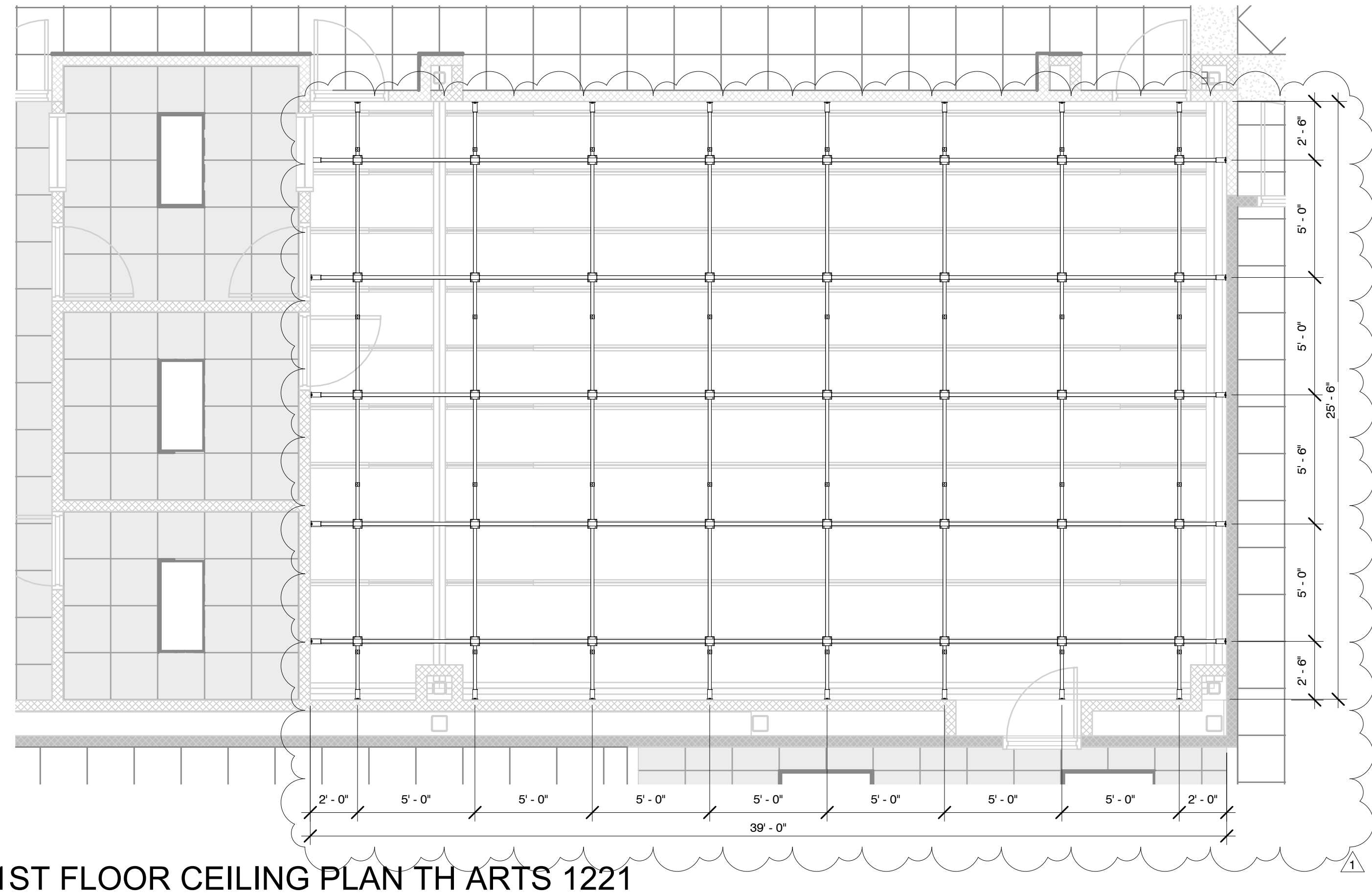


**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
**KAHLA MIDDLE SCHOOL**  
 16212 W LITTLE YORK RD, HOUSTON, TEXAS 77084  
 CFSID PROJECT NO: 24-02-5750-R-RFP

Project Number:	23072
Date:	29 DECEMBER 2024
Drawn by:	NY

**TECHNOLOGY SECOND FLOOR PLAN - AREA 'C'**

**T2.11**



1 TE - 1ST FLOOR CEILING PLAN TH ARTS 1221  
1/4" = 1'-0"

- General Notes:**
- All power conduit and fill shown on the "TE" series drawings are for diagrammatic purposes only. Refer to project electrical drawings for sizing and fill requirements.
  - Refer to sheet TE0.00 for cable key.
  - All dimensions and loading shown are for diagrammatic purposes only. Verify all location dimensions with field conditions, and all loading with the structural engineer before construction or installation. Notify consultant of any changes required.
  - Interstitial steel shown on this drawing is to be designed by the project structural engineer and provided by the project structural contractor.
  - Miscellaneous steel above and beyond what is shown may be required for connection of stage lighting to roof steel. It is the responsibility of the theatrical lighting contractor to provide any miscellaneous steel and to coordinate this with the general contractor.
  - Theatrical Rigging contractor to verify the load capacity of the structure with the project structural engineer.
  - All power conduit and wire sizing per NEC and all applicable local codes.



3701 Kirby Drive, Suite 830  
Houston, TX 77098  
tel: 832.947.1038 fax: 281.214.5365

**CONSTRUCTION DOCUMENT**

**CIVIL ENGINEER**  
**BROOKS AND SPARKS, INC.**  
21020 PARK ROW  
KATY, TX 77449  
tel: 281.578.9595

**STRUCTURAL ENGINEER**  
**DALLY + ASSOCIATES, INC.**  
9800 RICHMOND AVE.  
SUITE 400  
HOUSTON, TX 77042  
tel: 713.337.8881

**MEPT ENGINEER**  
**SALAS O'BRIEN**  
10930 W. SAM HOUSTON PKWY. N.  
SUITE 900  
HOUSTON, TX 77064  
tel: 281.664.1900

**FOOD SERVICE EQUIPMENT**  
**FDP**  
25317 INTERSTATE 45  
THE WOODLANDS, TX 77380  
tel: 281.350.2323

**LANDSCAPE**  
**LANDSCAPE GROUP**  
17041 EL CAMINO REAL, STE 204  
HOUSTON, TX 77058  
tel: 281.486.4040

**2024 ANTHONY, HOPPER & KAHLA RENOVATIONS**  
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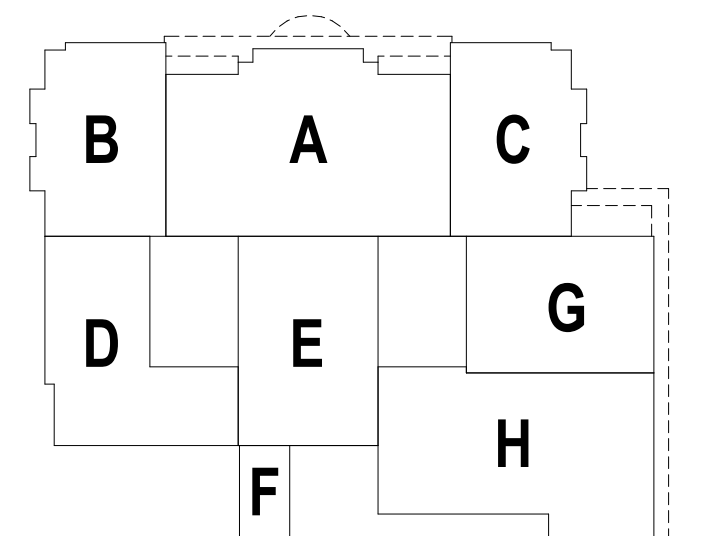
Revision	Description
1	ADDENDUM 02 01-16-25

Project Number: 23072  
Date: 29 DECEMBER 2024  
Drawn by: TAC

TE - CEILING PLAN  
TH ARTS 1221

**TE11.12**

KEY PLAN:



- General Notes:**
- All power conduit and fill shown on the "TL" series drawings are for diagrammatic purposes only. Refer to project electrical drawings for sizing and fill requirements.
  - Refer to sheet TLO.00 for cable schedule.
  - All dimensions and loading shown are for diagrammatic purposes only. Verify all location dimensions with field conditions, and all loading with the Structural Engineer before construction or installation. Notify Consultant of any changes required.
  - Interstitial steel shown on this drawing is to be designed by the project Structural Engineer and provided by the project Structural Contractor. Miscellaneous steel above and beyond what is shown may be required for connection of stage lighting to roof steel. It is the responsibility of the Theatrical Lighting Contractor to provide any miscellaneous steel and to coordinate this with the General Contractor.
  - Theatrical Lighting Contractor to verify the load capacity of the structure with the project Structural Engineer.
  - All power conduit and wire sizing to be determined by EE per NEC and all applicable local codes.
  - All cable runs for Type A cable shall not exceed 295 feet.



**Coleman Partners ARCHITECTS**  
3701 Kirby Drive, Suite 830  
Houston, TX 77098  
tel: 832.947.1038 fax: 281.214.5365

CONSTRUCTION DOCUMENT

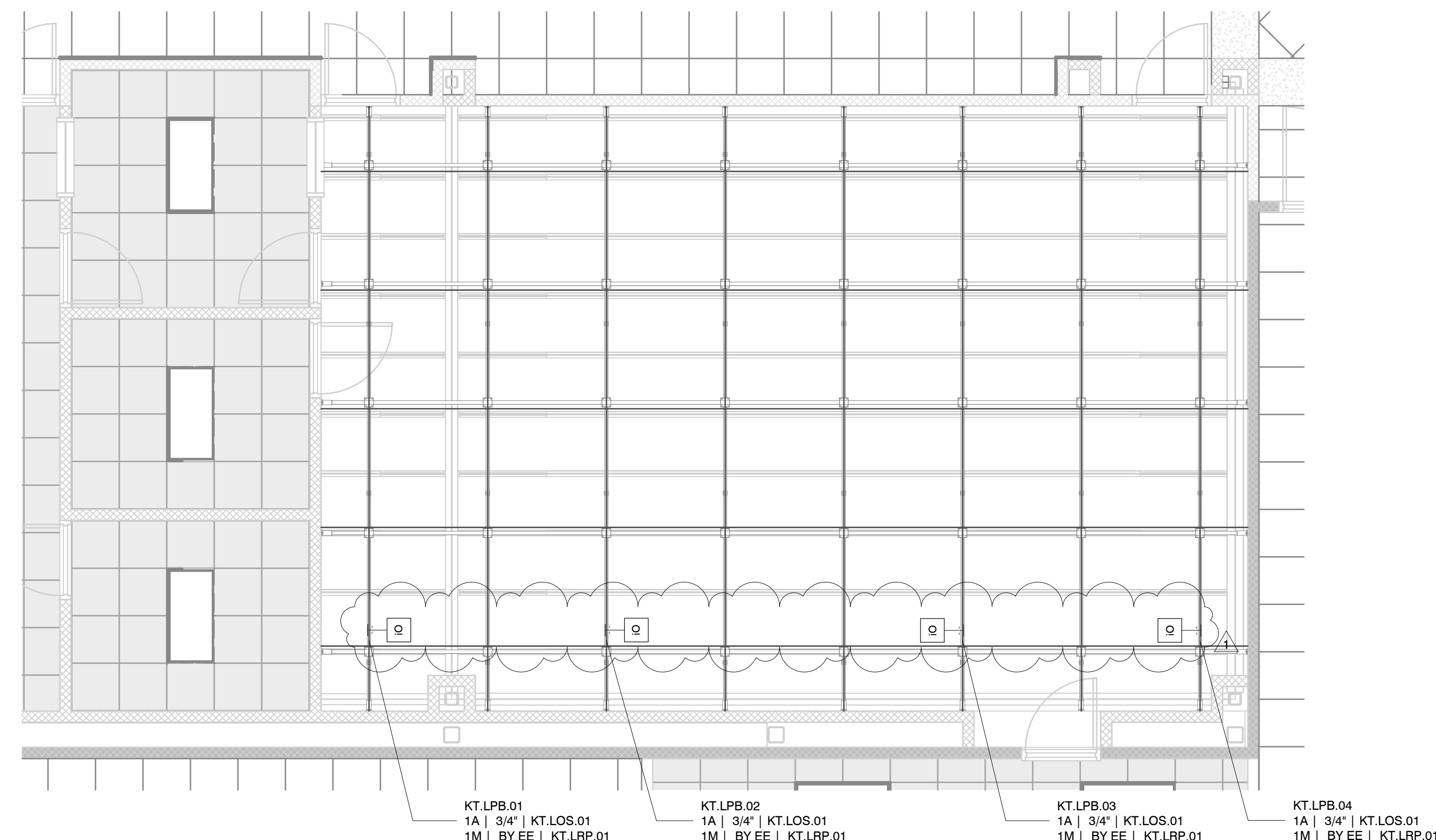
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**BROOKS AND SPARKS, INC.**  
21020 PARK ROW  
KATY, TX 77449  
tel: 281.578.9595

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9800 RICHMOND AVE.  
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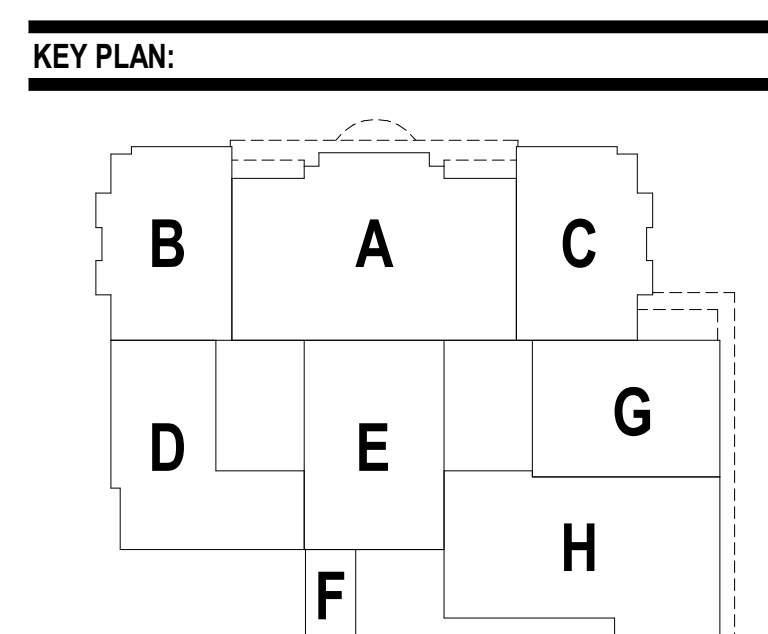
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**1 TL - 1ST FLOOR CEILING PLAN TH ARTS 1221**  
1/4" = 1'-0"



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TL - CEILING PLAN  
TH ARTS 1221

**TL11.12**