Farnsworth GROUP

Addendum

Addendum Number: 01

Addendum Issue Date: April 17, 2025

Owner: Robinson CUSD #2

Project Name: Robinson Washington Elementary Renovation & Addition

Project Number: 02401781.001

Containing: 131 Pages; 50 Drawings; 4 Specifications Sections

This addendum amends the drawings and specifications of the above reference project and is hereby incorporated into the contract documents as part thereof. Bidders must acknowledge receipt of this Addendum in the space provided on the Bid Form. ***FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION****.*

General:

1. The pre-bid meeting attendance sheet is enclosed for reference.
2. The district wishes to complete the mechanical installation in the existing building prior to the start of school in August. Knowing the possible lead times for the required electrical gear, it is expected that the mechanical equipment will be installed using the existing electrical gear and will need to be switched over once the new electrical gear arrives on-site. It has been acknowledged that there will be a slight shut down period for this switch to be completed. This will be coordinated between the district and contractor as necessary.
3. It is assumed that the existing roof is no longer under warranty.
4. For clarification, the existing unit heaters located within the corridors are to remain. There is no additional mechanical or electrical work associated with them.
5. For weights and other information on the existing mechanical equipment, please see the AHU schedule on M6.2.
6. BABA requirements do not apply to this project, as it is not federally funded.
7. PR Bean Company is an approved substitution for casework manufacturer.
8. The fire alarm and security system for the new addition should be coordinated with the existing system. The contract information for these systems is listed below:
   Security Alarm
   Tom Kelly
   217-343-0800
   tkelly@securityalarm.com
9. The PA system for the new addition should be coordinated with the existing system. The contact information for this system is listed below:
   Flat Rock Telephone
   Vince Decker
   618-843-8462

Drawings:

1. G0.1 – GENERAL INFORMATION
    a. ADD the following missing sheets that were included in the Bid Set: R0.1, ED1.4. See attached for updated drawing list.
    b. ADD the following sheets added as a part of this addendum: A2.5, A7.3.1. See attached for updated drawing list.
2. C1.1 – SITE & UTILITY PLAN
    a. Added callout for length and size of 4" drain tile depicted on Detail 4 on Sheet D1.2. See attached sheet.
    b. Added callout for outlet invert for 4" drain tile into proposed Ty-B storm inlet on the southwest side of the proposed building addition. See attached sheet.
3. L1.1 – SITE & UTILITY PLAN
    a. REVISE Existing Playground Equipment Notes #4.2 to clarify that refurbishing of existing playground equipment is the Owner's responsibility.
4. A1.1 – OVERALL FLOOR PLAN
    a. ADD general note L to read, "ALL EXISTING FINISHES SHALL REMAIN UNLESS OTHERWISE NOTED. PATCH AND PAINT, INSTALL ADDITIONAL CEILING GRIDS OR TILES, ETC. AS REQUIRED IN ORDER TO PERFORM NECESSARY MECHANICAL INSTALLATION." See attached.
    b. ADD keynote 09.04 to read, "ENSURE EXISTING GYM FLOOR IS PROTECTED DURING MECHANICAL WORK." See attached.
    c. ADD keynote 09.05 to read, "INSTALL LVT FLOORING IN EXISTING CLASSROOMS WHERE EXISTING UNIT HEATER IS REMOVED. LVT FLOORING TO MATCH EXISTING." See attached.
5. A1.1A – ENLARGED FLOOR PLAN – AREA A
    a. REVISE keynote 05.02 to read, "EXTERIOR PRIMED 2'-0" STEEL ROOF ACCESS LADDER, PAINT." See attached.
6. A2.1A – ROOF PLAN – AREA A
    a. REVISE keynote 05.05 to read, "EXTERIOR PRIMED 2'-0" STEEL ROOF ACCESS LADDER WITH PARAPET PLATFORM AND RETURN, PAINT." See attached.
    b. ADD section tag at north wall of vestibule 101A to indicate new canopy connection detail, 1/A2.5. See attached.
7. A2.3 – ROOF DETAILS
    a. REVISE annotation in Detail 2 to read, "5/8" AWP SYSTEM ON ½" EXTERIOR SHEATHING". See attached.
    b. REVISE annotation in Detail 3 to read, "PRE-FINISHED METAL SOFFIT PANEL". See attached.
8. A2.5 – CANOPY DETAILS
    a. ADD sheet A2.5 to drawing set. Sheet contains an additional canopy connection detail at brick. See attached.
9. A3.1 – EXTERIOR ELEVATIONS
    a. ADD elevation keynote 27 to denote roof hatch guard rails shown in Detail 4. See attached.
10. A3.2 – EXTERIOR ELEVATIONS
    a. ADD elevation keynote 28 to denote splash block needed for plumbing drain shown in Detail 3. See attached.
11. A5.2 – WALL SECTIONS – AREA A
    a. REVISE annotation in Detail 2 to read, "5/8" AWP SYSTEM ON ½" EXTERIOR SHEATHING". See attached.

   b. ADD the following annotations to Detail 3, “5/8” AWP SYSTEM ON ½” EXTERIOR SHEATHING” and “ 2 ½” METAL STUDS AT 16” O.C.” See attached.
12. A5.3 – WALL SECTIONS – AREA A
   a. REVISE annotation in Details 1 and 2 to read, “5/8” AWP SYSTEM ON ½” EXTERIOR SHEATHING”. See attached.
13. A5.4 – WALL SECTIONS – AREA A
   a. REVISE dimensions from first floor to bottom of canopy soffit panels shown in Details 1 and 2 to match that which is shown on A5.3. See attached.
14. A5.7 – WALL SECTIONS – AREA C
   a. REVISE annotation in Detail 3 to read, “5/8” AWP SYSTEM ON ½” EXTERIOR SHEATHING”. See attached.
   b. REVISE annotation in Detail 3 to read, “PRE-FINISHED METAL SOFFIT PANEL”. See attached.
15. A5.9 – EXTERIOR DETAILS
   a. REVISE annotation in Detail 6 to read, “5/8” AWP SYSTEM ON ½” EXTERIOR SHEATHING”. See attached.
16. A7.2 – DOOR SCHEDULE, ELEVATIONS AND DETAILS
   a. REVISE panel material for door 107-1 to be wood (WD). See attached.
   b. ADD note 1 to door 107-1, indicating to provide a 1” door undercut. See attached.
   c. REVISE note 1 in the door schedule to read, “1” DOOR UNDERCUT IN THE RESTROOMS, JANITOR ROOMS, AND MECHANICAL ROOM.” See attached.
17. A7.3.1 – GLAZING ELEVATIONS – WINDOW GRAPHICS
   a. ADD sheet A7.3.1 to drawing set. Sheet contains glazing elevations showing general design intent for window film graphics. See attached.
18. A7.4 – GLAZING DETAILS
   a. REVISE annotation in Details 4, 5, and 7 to read, “5/8” AWP SYSTEM ON ½” EXTERIOR SHEATHING”. See attached.
   b. REVISE annotation in Detail 5 to read, “1 5/8” METAL STUD AT 16” O.C.”. See attached.
19. A8.2 – PRESCHOOL INTERIOR ELEVATIONS AND ENLARGED PLANS
   a. ADD clear dimension at accessible stall as shown to ensure that partitions meet the accessible requirements outlined in ICC 117.1. See attached.
   b. REVISE sink location and associated toilet accessories in classroom kitchenette as shown. See attached.
   c. REVISE cabinet layout in classroom kitchenette to accommodate sink relocation. See attached.
20. A8.3 – KINDERGARTEN INTERIOR ELEVATIONS AND ENLARGED PLANS
   a. ADD clear dimension at accessible stall as shown to ensure that partitions meet the accessible requirements outlined in ICC 117.1. See attached.
21. A8.4 – KINDERGARTEN INTERIOR ELEVATIONS AND ENLARGED PLANS
   a. ADD clear dimensions at accessible stalls as shown to ensure that partitions meet the accessible requirements outlined in ICC 117.1. See attached.
22. A8.5 – RESTROOM INTERIOR ELEVATIONS AND ENLARGED PLANS
   a. ADD clear dimensions at accessible stalls as shown to ensure that partitions meet the accessible requirements outlined in ICC 117.1. See attached.
23. A8.12 – VESTIBULE INTERIOR ELEVATIONS AND ENLARGED PLANS
   a. ADD card reader to vestibule X100 for doors X101-4 and X101-3. See attached.

24. A9.1A – REFLECTED CEILING PLAN – AREA A
    a. ADD general note F to read, “ALL EXISTING CEILINGS SHALL REMAIN UNLESS OTHERWISE NOTED. PLEASE PROVIDE ADDITIONAL TILES, GRIDS OR OTHER ACCESSORIES AS REQUIRED IN ORDER TO PERFORM NECESSARY MECHANICAL INSTALLATION.” See attached.
25. P1.1A – PLUMBING UNDERSLAB PLAN – AREA A
    a. REVISE sink waste piping for new sink locations in all preschool rooms.
    b. REVISE associated keynote for 2” waste up to sinks.
26. P1.2A – PLUMBING DWV PLAN – AREA A
    a. REVISE sink waste and vent piping for new sink locations in all preschool rooms.
27. P1.3A – PLUMBING WATER PLAN – AREA A
    a. REVISE sink water piping for new sink locations in all preschool rooms.
28. P6.2 – SCHEDULES
    a. REVISE gas water heater schedule to show two dimensions as not applicable.
    b. REVISE the drain schedule to call for splashblocks for applicable downspout nozzles.
29. MD1.1E – ENLARGED MECHANICAL DEMOLITION PLAN – AREA E
    a. REVISED ductwork demolition in X122, X122A, X122B, and X122C
30. M1.1B – ENLARGED VENTILATION FLOOR PLAN – AREA B
    a. REVISED RTU-5 ductwork serving the restrooms, maintenance areas, corridors, and administrative areas in Area B
    b. ADD Keynotes #1, #2
31. M1.1D – ENLARGED VENTILATION FLOOR PLAN – AREA D
    a. ADD exhaust ductwork and exhaust air grille to serve Office X133C
    b. ADD Keynote #4 to exhaust air grilles in Nurse X132 and Toilet X132A, to show new air balances.
32. M1.1E – ENLARGED VENTILATION FLOOR PLAN – AREA E
    a. REVISE RTU-1 ductwork serving X122, X122A, X122B, X122C, and C-X105
33. M1.4 – OVERALL ROOF MECHANICAL PLAN
    a. ADD note showing location of concentric vent for new HWH
    b. ADD condensate drain piping
    c. ADD EF-4
    d. REVISE roof ductwork to avoid existing roof vent for HWH in Boiler Room
    e. ADD Keynote #4
34. M2.1A – ENLARGED MECHANICAL PIPING FLOOR PLAN – AREA A
    a. ADD condensate drain piping
    b. ADD Keynote #1
35. M2.1B – ENLARGED MECHANICAL PIPING FLOOR PLAN – AREA B
    a. ADD condensate drain piping
    b. ADD Keynote #1
36. M2.1C – ENLARGED MECHANICAL PIPING FLOOR PLAN – AREA C
    a. ADD condensate drain piping
    b. ADD Keynote #1
37. M2.1D – ENLARGED MECHANICAL PIPING FLOOR PLAN – AREA D

a. ADD condensate drain piping
b. ADD Keynotes #1, #2

38. M2.1E – ENLARGED MECHANICAL PIPING FLOOR PLAN – AREA E
    a. ADD condensate drain piping
    b. ADD Keynote #1
39. M5.2 – DIAGRAMS
    a. ADD Detail #1, PREFABRICATED PIPE CURB (Pipe Portal)
40. M6.2 – SCHEDULES
    a. REVISE EXHAUST FAN SCHEDULE
41. ED1.1 – FIRST FLOOR ELECTRICAL DEMOLITION PLAN
    a. ADD keynote #5 and #7 for luminaire removal. See attached sheet.
    b. ADD keynote #6 for HVAC equipment electrical disconnection. See attached sheet.
    c. ADD receptacle removal locations. See attached sheet.
    d. REVISE existing panel C to be surface mounted. See attached sheet.
42. E1.0 – FIRST FLOOR LIGHTING PLAN – AREA SECRETARY X131
    a. ADD type B luminaires, occupancy sensor, and keynote #1 to Vest. X100. See attached sheet.
    b. REVISE keynote #1. See the attached sheet.
43. E2.0 – FIRST FLOOR POWER PLAN – AREA EXISTING
    a. REVISE panel C to be surface mounted. See attached sheet.
    b. REVISE keynote #1 to not be used. See attached sheet.
44. E3.1 – FIRST FLOOR SYSTEMS PLAN – AREA A
    a. ADD intercom locations. See attached sheet.
45. E3.2 – FIRST FLOOR SYSTEMS PLAN – AREA B
    a. ADD intercom locations. See attached sheet.
    b. ADD keynote #4 for intercom locations. See attached sheet.
46. E3.3 – FIRST FLOOR SYSTEMS PLAN – AREA C
    a. ADD intercom location. See attached sheet.
47. E5.1 – SCHEDULES
    a. REVISE information for luminaires G1, G2, L3A, L3B, L3G, L3O, L3R, and L3Y in luminaire schedule. See attached sheet.
    b. REVISE luminaire schedule notes to not block information for luminaire type X3. See attached sheet.
48. E5.3 – SCHEDULES
    a. REVISE panelboard schedules A-LB-1 and A-LB-2 to indicate that the panels are surface mounted. See attached sheet.
49. E5.4 – SCHEDULES
    a. REVISE panelboard schedule A-LC-1 to indicate that the panel is surface mounted. See attached sheet.
50. E5.5 – SCHEDULES
    a. REVISE panelboard schedules A-BR-1, A-LH-1, and A-LH-2 to indicate that the panels are surface mounted. See attached sheet.

Specifications:

1. 00 0115 – List of Drawing Sheets
    a. ADD the following missing sheets that were included in the Bid Set: L4.1, I0.2, I1.1A, I1.1B, I1.1C, I3.2, I4.0, I4.1A, I4.1B, I4.1C, R0.1, M7.1, ED1.4, E6.2. See attached for updated drawing list.
    b. ADD the following sheets added as a part of this addendum: A2.5, A7.3.1. See attached for updated drawing list.
2. 00 3104 – Hazardous Materials Report
    a. The enclosed hazardous materials report shall be added to the specifications.
3. 08 7100 – Door Hardware
    a. ADD the following note to hardware set 3.0, “Remote release controls are to be compatible with existing control modules. There are two existing control modules, one to be located at each desk. Coordinate with existing security system/supplier as required”. See attached.
4. 28 4600 – Fire Detection and Alarm
    a. 2.1.A Contractor to verify existing fire alarm system.
    b. 2.3.A.4 Removed carbon monoxide detectors, dry system pressure switch, and fire-pump running.
    c. 2.3.A.5 Removed elevator shunt trip supervision, fire pump running, fire pump loss of power, fire-pump power phase reversal.
    d. 2.3.B.2.a Changed pathway survivability level to 2.
    e. 2.3.B Removed stairwell and elevator shaft pressurization requirements.
    f. 2.3.B Removed elevator recall requirements.
    g. 2.3 Removed supervising stations and fire department connections requirements.
    h. 2.5 Removed elevator requirements.

END OF ADDENDUM

Issued By:

FARNSWORTH GROUP, INC.
Annapoorna Halepatali
Project Architect

Attachments:

Drawings: G0.1, C1.1, L1.1, A1.1, A1.1A, A2.1, A2.3, A2.5, A3.1, A3.2, A5.2, A5.3, A5.4, A5.7, A5.9, A7.2, A7.3.1, A7.4, A8.2, A8.3, A8.4, A8.5 A8.12, A9.1A, P1.1A, P1.2A, P1.3A, P6.2, MD1.1E, M1.1B, M1.1D, M1.1E, M1.4, M2.1A, M2.1B, M2.1C, M2.1D, M2.1E, M5.2, M6.2, ED1.1, E1.0, E2.0, E3.1, E3.2, E3.3, E5.1, E5.3, E5.4, E5.5

Specifications: 00 0115, 00 3104, 08 7100, 28 4600

DRAWING LIST

GENERAL
- G0.1 GENERAL INFORMATION
- LS1.1 FIRST FLOOR LIFE SAFETY PLAN

CIVIL
- C0.1 GENERAL NOTES
- SP1.0 SPECIFICATIONS
- SP2.0 SPECIFICATIONS
- CD1.1 SITE DEMOLITION PLAN
- C1.1 SITE & UTILITY PLAN
- C2.1 SITE GRADING PLAN
- D1.1 SITE DETAILS
- D1.2 SITE DETAILS
- D1.3 SITE DETAILS
- D1.4 SITE DETAILS
- D1.5 SITE DETAILS

LANDSCAPE
- L1.1 OVERALL LAYOUT PLAN
- L1.2 NORTH PLAYGROUND LAYOUT PLAN
- L1.3 COURTYARD PLAYGROUND LAYOUT PLAN
- L1.4 SOUTH PLAYGROUND LAYOUT PLAN
- L2.1 PLAYGROUND SITE DETAILS
- L2.2 PLAYGROUND SITE EQUIPMENT
- L3.1 PLANTING PLAN
- L3.2 NORTH PLANTING PLAN ENLARGEMENT
- L3.3 WEST PLANTING PLAN ENLARGEMENT
- L4.1 PLANTING DETAILS

STRUCTURAL
- S0.1 GENERAL INFORMATION
- S0.2 GENERAL INFORMATION
- S0.3 GENERAL INFORMATION
- S1.1A FOUNDATION PLAN - AREA A
- S1.1B FOUNDATION PLAN - AREA B
- S1.1C FOUNDATION PLAN - AREA C
- S1.2A CANOPY FOUNDATION PLAN - AREA A
- S1.3A SLAB AND CONTROL JOINT PLAN - AREA A
- S1.3B SLAB AND CONTROL JOINT PLAN - AREA B
- S1.3C SLAB AND CONTROL JOINT PLAN - AREA C
- S2.1A ROOF FRAMING PLAN - AREA A
- S2.1B ROOF FRAMING PLAN - AREA B
- S2.1C ROOF FRAMING PLAN - AREA C
- S2.2A CANOPY FRAMING PLAN - AREA A
- S2.3E EXISTING ROOF FRAMING PLAN
- S3.1 FOUNDATION DETAILS
- S3.2 FOUNDATION DETAILS
- S4.1 FRAMING DETAILS
- S4.2 FRAMING DETAILS
- S5.1 COLUMN SCHEDULE AND BASE PLATES
- S6.1 MASONRY DETAILS

ARCHITECTURAL
- A0.1 GENERAL INFORMATION
- AD1.1 DEMOLITION PLANS
- A1.1 OVERALL FLOOR PLAN

DRAWING LIST

- A1.1A ENLARGED FLOOR PLAN - AREA A
- A1.1B ENLARGED FLOOR PLAN - AREA B
- A1.1C ENLARGED FLOOR PLAN - AREA C
- A2.1 OVERALL ROOF PLAN
- A2.1A ROOF PLAN - AREA A
- A2.1B ROOF PLAN - AREA B
- A2.1C ROOF PLAN - AREA C
- A2.2 ROOF DETAILS
- A2.3 ROOF DETAILS
- A2.4 CANOPY DETAILS
- A2.5 CANOPY DETAILS
- A3.1 EXTERIOR ELEVATIONS
- A3.2 EXTERIOR ELEVATIONS
- A3.3 EXTERIOR SIGNAGE DETAILS
- A4.1 BUILDING SECTIONS
- A4.2 BUILDING SECTIONS
- A5.1 WALL SECTIONS - AREA A
- A5.2 WALL SECTIONS - AREA A
- A5.3 WALL SECTIONS - AREA A
- A5.4 WALL SECTIONS - AREA A
- A5.5 WALL SECTIONS - AREA B
- A5.6 WALL SECTIONS - AREA B
- A5.7 WALL SECTIONS - AREA C
- A5.8 EXTERIOR DETAILS
- A5.9 EXTERIOR DETAILS
- A5.10 EXTERIOR DETAILS
- A6.1 VERTICAL CIRCULATION PLANS, SECTIONS AND DETAILS
- A7.1 PARTITION TYPES
- A7.2 DOOR SCHEDULE, ELEVATIONS AND DETAILS
- A7.3 GLAZING ELEVATIONS
- A7.3.1 GLAZING ELEVATIONS - WINDOW GRAPHICS
- A7.4 GLAZING DETAILS
- A7.5 GLAZING DETAILS
- A8.0 TYPICAL CASEWORK DETAILS
- A8.1 TYPICAL CASEWORK DETAILS
- A8.2 PRESCHOOL INTERIOR ELEVATIONS AND ENLARGED PLANS
- A8.3 KINDERGARTEN INTERIOR ELEVATIONS AND ENLARGED PLANS
- A8.4 KINDERGARTEN INTERIOR ELEVATIONS AND ENLARGED PLANS
- A8.5 RESTROOM INTERIOR ELEVATIONS AND ENLARGED PLANS
- A8.6 ADMIN INTERIOR ELEVATIONS AND ENLARGED PLANS
- A8.7 ADMIN INTERIOR ELEVATIONS AND ENLARGED PLANS
- A8.8 GROSS MOTOR INTERIOR ELEVATIONS AND ENLARGED PLANS
- A8.9 GROSS MOTOR, CORRIDOR, AND RAMP INTERIOR ELEVATIONS
- A8.10 CORRIDOR INTERIOR ELEVATIONS
- A8.11 CORRIDOR INTERIOR ELEVATIONS
- A8.12 VESTIBULE INTERIOR ELEVATIONS AND ENLARGED PLANS
- A9.1A REFLECTED CEILING PLAN - AREA A
- A9.1B REFLECTED CEILING PLAN - AREA B
- A9.1C REFLECTED CEILING PLAN - AREA C
- A9.2 CEILING DETAILS

INTERIORS
- I0.1 FINISH SCHEDULES AND GENERAL INFORMATION
- I0.2 FINISH SCHEDULES
- I1.1 FIRST FLOOR FINISH PLAN
- I1.1A ENLARGED FINISH PLAN - AREA A
- I1.1B ENLARGED FINISH PLAN - AREA B

DRAWING LIST

- I1.1C ENLARGED FINISH PLAN - AREA C
- I3.1 INTERIOR FINISH DETAILS
- I3.2 INTERIOR FINISH DETAILS
- I4.0 SIGNAGE SCHEDULE & DETAILS
- I4.1A ENLARGED SIGNAGE PLAN - AREA A
- I4.1B ENLARGED SIGNAGE PLAN - AREA B
- I4.1C ENLARGED SIGNAGE PLAN - AREA C
- I8.1 ENLARGED FINISH PLANS
- I8.2 ENLARGED FINISH PLANS
- I8.3 ENLARGED FINISH PLANS
- R0.1 INTERIOR RENDERINGS

FIRE PROTECTION
- F0.1 GENERAL INFORMATION
- F1.1 FIRE PROTECTION PLAN - OVERALL
- F5.1 DIAGRAMS

PLUMBING
- P0.1 GENERAL INFORMATION
- P1.1 PLUMBING UNDERSLAB PLAN - OVERALL
- P1.1A PLUMBING UNDERSLAB PLAN - AREA A
- P1.1B PLUMBING UNDERSLAB PLAN - AREA B
- P1.1C PLUMBING UNDERSLAB PLAN - AREA C
- P1.2 PLUMBING DWV PLAN - OVERALL
- P1.2A PLUMBING DWV PLAN - AREA A
- P1.2B PLUMBING DWV PLAN - AREA B
- P1.2C PLUMBING DWV PLAN - AREA C
- P1.3 PLUMBING WATER PLAN - OVERALL
- P1.3A PLUMBING WATER PLAN - AREA A
- P1.3B PLUMBING WATER PLAN - AREA B
- P1.3C PLUMBING WATER PLAN - AREA C
- P2.1 PLUMBING ROOF PLAN - OVERALL
- P5.1 DIAGRAMS
- P6.1 SCHEDULES
- P6.2 SCHEDULES

MECHANICAL
- M0.1 GENERAL INFORMATION
- MD1.1D ENLARGED MECHANICAL DEMOLITION PLAN - AREA D
- MD1.1E ENLARGED MECHANICAL DEMOLITION PLAN - AREA E
- MD1.4 OVERALL ROOF MECHANICAL DEMOLITION PLAN
- M1.1A ENLARGED VENTILATION FLOOR PLAN - AREA A
- M1.1B ENLARGED VENTILATION FLOOR PLAN - AREA B
- M1.1C ENLARGED VENTILATION FLOOR PLAN - AREA C
- M1.1D ENLARGED VENTILATION FLOOR PLAN - AREA D
- M1.1E ENLARGED VENTILATION FLOOR PLAN - AREA E
- M1.4 OVERALL ROOF MECHANICAL PLAN
- M2.1A ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA A
- M2.1B ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA B
- M2.1C ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA C
- M2.1D ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA D
- M2.1E ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA E
- M5.1 DIAGRAMS
- M5.2 DIAGRAMS
- M6.1 SCHEDULES
- M6.2 SCHEDULES
- M7.1 CONTROLS DIAGRAMS

ELECTRICAL
- E0.1 GENERAL INFORMATION
- E0.2 GENERAL INFORMATION
- ED1.1 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
- ED1.4 ROOF ELECTRICAL DEMOLITION PLAN
- ES1.1 ELECTRICAL SITE PLAN
- E1.0 FIRST FLOOR LIGHTING PLAN - AREA SECRETARY X131
- E1.1 FIRST FLOOR LIGHTING PLAN - AREA A
- E1.2 FIRST FLOOR LIGHTING PLAN - AREA B
- E1.3 FIRST FLOOR LIGHTING PLAN - AREA C
- E1.4 FIRST FLOOR LIGHTING ZONE PLAN
- E2.0 FIRST FLOOR POWER PLAN - AREA EXISTING
- E2.1 FIRST FLOOR POWER PLAN - AREA A
- E2.2 FIRST FLOOR POWER PLAN - AREA B
- E2.3 FIRST FLOOR POWER PLAN - AREA C
- E2.4 ELECTRICAL ROOF PLAN
- E2.5 TEMPORARY ELECTRICAL CONNECTIONS
- E3.1 FIRST FLOOR SYSTEMS PLAN - AREA A
- E3.2 FIRST FLOOR SYSTEMS PLAN - AREA B
- E3.3 FIRST FLOOR SYSTEMS PLAN - AREA C
- E4.1 ONE-LINE DIAGRAM
- E5.1 SCHEDULES
- E5.2 SCHEDULES
- E5.3 SCHEDULES
- E5.4 SCHEDULES
- E5.5 SCHEDULES
- E5.6 SCHEDULES
- E5.7 SCHEDULES
- E6.1 DETAILS
- E6.2 DETAILS

PROJECT GENERAL NOTES

A. REFER TO GENERAL INFORMATION SHEETS FOR SYMBOLS AND ABBREVIATIONS.

B. WALLS TO BE REMOVED SHALL BE FROM FLOOR TO STRUCTURE ABOVE UNLESS OTHERWISE INDICATED AND SHALL INCLUDE ALL MECHANICAL, ELECTRICAL, ETC. PREPARE ALL DISTURBED AREAS FOR NEW CONSTRUCTION.

C. DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONS. IF A REQUIRED DIMENSION IS NOT INDICATED, CONTACT THE ARCHITECT FOR DETERMINATION.

D. THE CONTRACTOR SHALL NOT CUT STRUCTURAL MEMBERS/ELEMENTS IN A MANNER RESULTING IN A REDUCTION OF LOAD CARRYING CAPACITY OR LOAD/DEFLECTION RATIO.

E. PAINT ALL STEEL DOORS, DOOR FRAMES, INTERIOR BORROW LITE FRAMES, LINTELS AND OTHER EXPOSED METAL ITEMS UNLESS OTHERWISE NOTED OR SHOWN.

F. EXISTING CONDITION INFORMATION SHOWN WITHIN THE PROJECT AREA IS BASED ON FIELD OBSERVATION AND EXISTING DRAWING DOCUMENTATION. ALL EXISTING CONDITION INFORMATION SHOWN OUTSIDE THE PROJECT AREA IS PROVIDED FOR REFERENCE ONLY AND HAS NOT BEEN FIELD VERIFIED. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BEGINNING ANY NEW WORK AND SHALL BRING AND DISCREPANCIES TO THE ATTENTION OF THE DESIGN PROFESSIONAL PRIOR TO DEMOLITION AND CONSTRUCTION.

G. STORAGE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS IS UNDERSTOOD TO NOT BE WITHIN THE BUILDING. STORAGE OF ANY MATERIAL IS TO BE IN COMPLIANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.

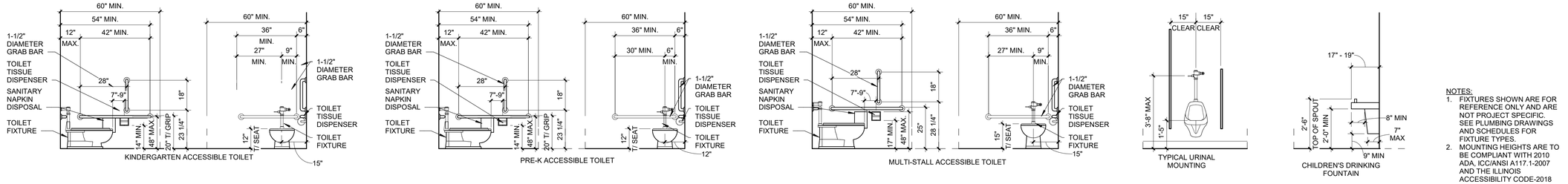
DEFERRED SUBMITTALS

THE FOLLOWING SYSTEMS ARE A DESIGN/BUILD RESPONSIBILITY OF THE CONTRACTOR OR PRODUCT MANUFACTURER AND WILL REQUIRE THE DEFERRED SUBMITTAL OF DESIGN WORK TO THE CITY OF ANYWHERE FOR PLAN REVIEW AND PERMITTING:

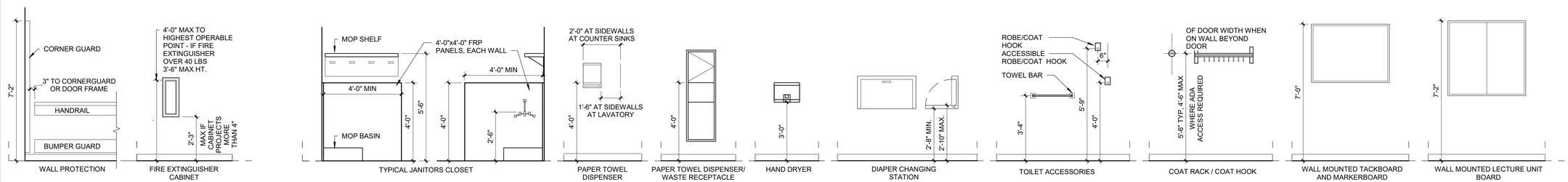
1. FIRE SPRINKLER SYSTEMS
2. FIRE ALARM SYSTEMS
3. STEEL JOISTS LABELED "KSP" WITH MAXIMUM DEPTH AS INDICATED ON ROOF FRAMING PLAN
4. LIGHT GAUGE FRAMING

BID ALTERNATES

REFERENCE SECTION 00 2113 AND 00 4100 OF THE PROJECT MANUAL FOR THE SCHEDULE OF BID ALTERNATES TO BE INCLUDED WITH THE BID PACKAGE



NOTES:
1. FIXTURES SHOWN ARE FOR REFERENCE ONLY AND ARE NOT PROJECT SPECIFIC. SEE PLUMBING DRAWINGS AND SCHEDULES FOR FIXTURE TYPES.
2. MOUNTING HEIGHTS ARE TO BE COMPLIANT WITH 2010 ADA, ICC/ANSI A117.1-2007 AND THE ILLINOIS ACCESSIBILITY CODE-2018 PROVIDE ALL NECESSARY CONCEALED BLOCKING AND REINFORCEMENT FOR THE SECURE INSTALLATION OF ALL EQUIPMENT AND ACCESSORIES.
3. EXPOSED PLUMBING BARRIER FREE LAVATORIES MUST BE INSULATED OR OTHERWISE CONFIGURED TO ELIMINATE POSSIBLE CONTACT.
4. SEE TOILET ACCESSORY SCHEDULE AND RESTROOM ELEVATIONS, A8.1



1 STANDARD MOUNTING HEIGHTS

SCALE: 3/8" = 1'-0"

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ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
04/03/2025

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	APH
DRAWN:	TMM
REVIEWED:	APH/SCB/JB

SHEET TITLE:
GENERAL INFORMATION

SHEET NUMBER:
G0.1

PROJECT NO.: 02401781.001

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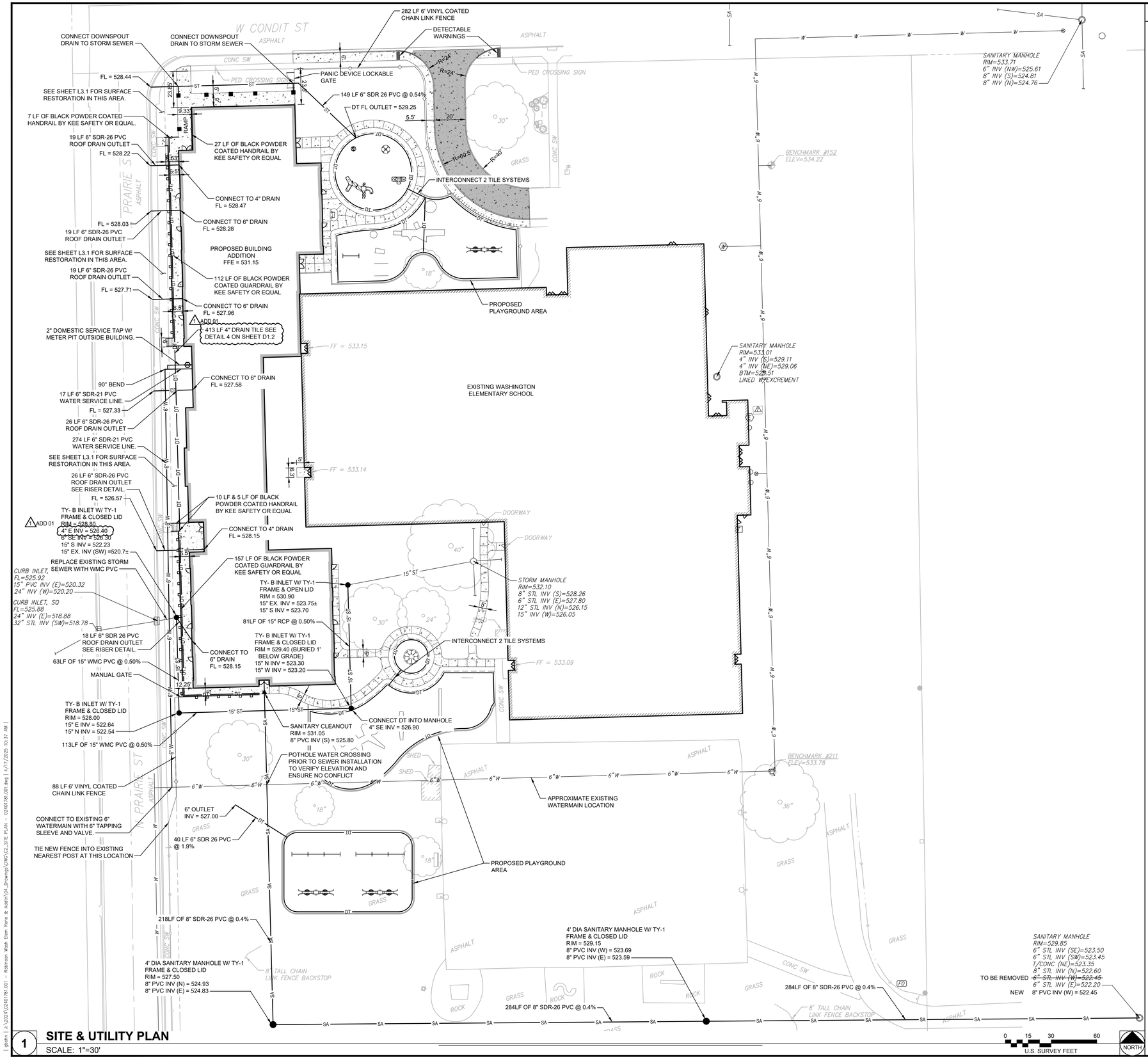

1 **SITE & UTILITY PLAN**
SCALE: 1"=30'

0 15 30 60
U.S. SURVEY FEET
NORTH

PROPOSED LEGEND

(STANDARD LEGEND - NOT ALL ITEMS DEPICTED ON PLANS)

- WATER METER PIT W/ METER
- W — WATER SERVICE
- SA — SANITARY SERVICE
- ST — STORM SEWER
- G — GAS SERVICE
- E — ELECTRIC CONDUITS
- SIDEWALK, TYPE SPECIAL
- CONCRETE MONOLITHIC CURB & GUTTER
- COMBINED CONCRETE CURB & GUTTER (PUBLIC STREET) PER LOCAL SPECIFICATIONS
- DEPRESSED CURB
- P.C.C. SIDEWALK, 4"
- FULL-DEPTH HMA
  2" HMA SURFACE
  2 ½" HMA BINDER
  AGG. BASE COURSE, TYPE B, 10"
- ACCESSIBLE PATH DETECTABLE WARNING STRIP
- BOLLARD
- NEW SIGN
- SITE LIGHTING
- END SECTION
- STORM INLET
- CURB INLET
- STORM MANHOLE
- SANITARY MANHOLE
- SEWER CLEAN OUT

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1	04/17/2025	ADDENDUM #1

BID SET
04/03/2025

PROJECT:
Robinson CUSD #2

WASHINGTON ELEMENTARY RENOVATION & ADDITION

WASHINGTON ELEM.SCHOOL
507 W.Condit St.
Robinson, Il 62454

DATE:	04/03/2025
DESIGNED:	JRR
DRAWN:	GAB
REVIEWED:	ACH
FIELD BOOK NO.:	-

SHEET TITLE:
SITE & UTILITY PLAN

SHEET NUMBER:
C1.1

PROJECT NO.: 02401781.001

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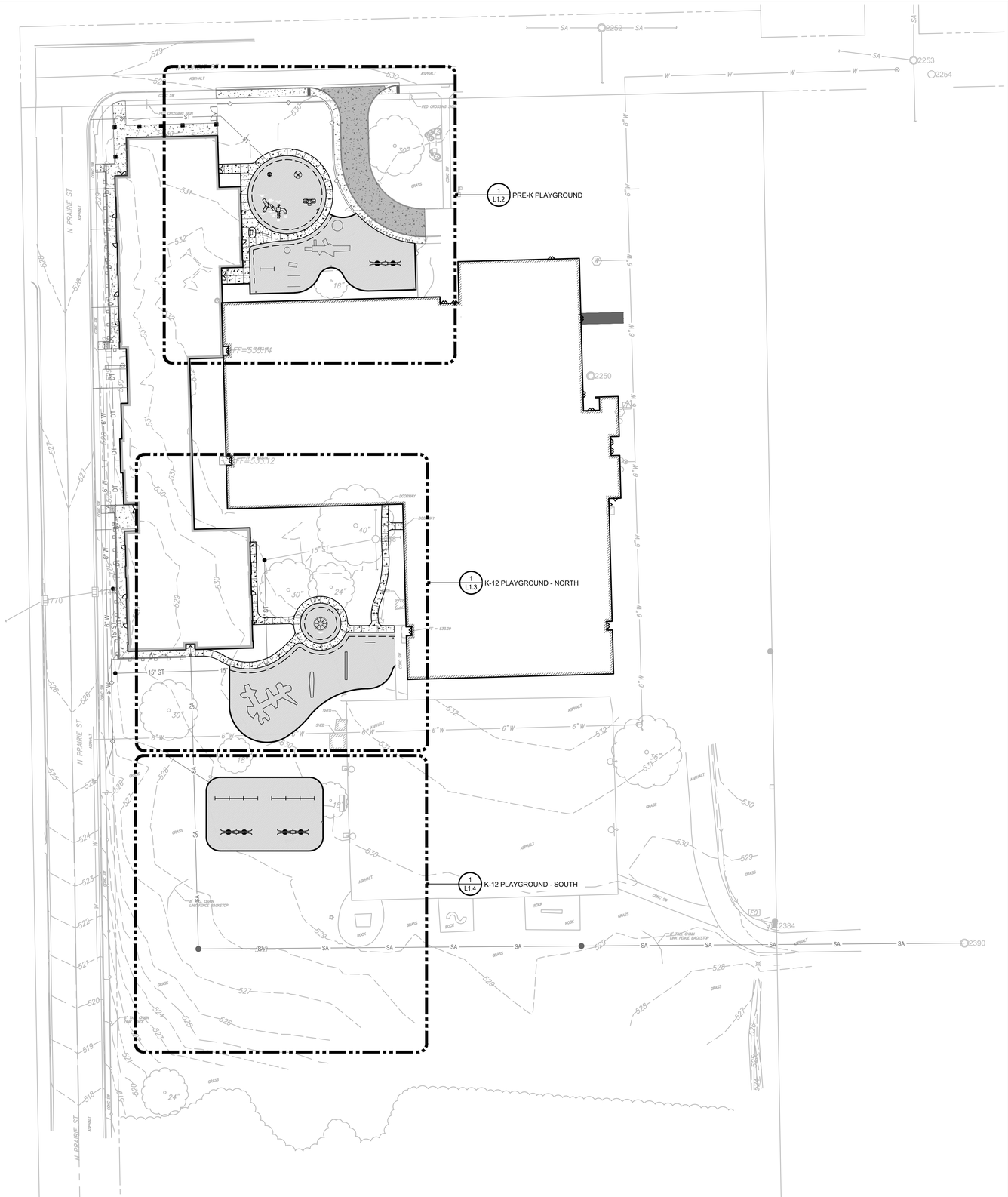

1 OVERALL PLAYGROUND LAYOUT PLAN
SCALE: 1" =40'

0 20 40 80
U.S. SURVEY FEET

NORTH

EXISTING PLAYGROUND EQUIPMENT NOTES:

1. GENERAL REQUIREMENTS
   - 1.1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CAREFUL REMOVAL, STORAGE, AND RE-INSTALLATION OF EXISTING PLAYGROUND EQUIPMENT AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
   - 1.2. ALL WORK SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES, MANUFACTURER RECOMMENDATIONS, AND INDUSTRY STANDARDS, INCLUDING BUT NOT LIMITED TO THE CONSUMER PRODUCT SAFETY COMMISSION (CPSC) GUIDELINES AND ASTM INTERNATIONAL STANDARDS FOR PLAYGROUND SAFETY (E.G., ASTM F1487).
2. SITE ASSESSMENT AND DOCUMENTATION
   - 2.1. PRIOR TO REMOVAL, THE CONTRACTOR SHALL CONDUCT A THOROUGH INSPECTION OF THE EXISTING PLAYGROUND EQUIPMENT TO DOCUMENT ITS CONDITION, INCLUDING PHOTOGRAPHS AND WRITTEN NOTES.
   - 2.2. ANY PRE-EXISTING DAMAGE, WEAR, OR MISSING COMPONENTS SHALL BE REPORTED TO THE OWNER OR OWNER'S REPRESENTATIVE IN WRITING WITHIN 48 HOURS OF INSPECTION.
   - 2.3. THE CONTRACTOR SHALL VERIFY QUANTITIES, LOCATIONS, AND DIMENSIONS OF EQUIPMENT TO BE RECLAIMED AGAINST THE CONTRACT DOCUMENTS AND REPORT DISCREPANCIES IMMEDIATELY.
3. REMOVAL OF PLAYGROUND EQUIPMENT
   - 3.1. THE CONTRACTOR SHALL DISMANTLE AND REMOVE THE EXISTING PLAYGROUND EQUIPMENT IN A MANNER THAT PREVENTS DAMAGE TO COMPONENTS INTENDED FOR REUSE.
   - 3.2. ALL HARDWARE (E.G., BOLTS, NUTS, CONNECTORS) SHALL BE CAREFULLY REMOVED, LABELED, AND STORED FOR REUSE UNLESS OTHERWISE SPECIFIED. DAMAGED OR DETERIORATED HARDWARE SHALL BE REPLACED WITH EQUIVALENT OR BETTER MATERIALS AT NO ADDITIONAL COST TO THE OWNER.
   - 3.3. EQUIPMENT SHALL BE DISASSEMBLED IN ACCORDANCE WITH THE ORIGINAL MANUFACTURER'S INSTRUCTIONS, WHERE AVAILABLE, OR USING BEST PRACTICES TO ENSURE COMPONENTS REMAIN VIABLE FOR REINSTALLATION. STORAGE AND PROTECTION
   - 3.4. REMOVED PLAYGROUND EQUIPMENT SHALL BE STORED IN A SECURE, WEATHER-PROTECTED LOCATION DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE OWNER.
   - 3.5. THE CONTRACTOR SHALL PROTECT ALL COMPONENTS FROM DAMAGE, THEFT, OR EXPOSURE TO MOISTURE, UV DEGRADATION, OR OTHER ENVIRONMENTAL FACTORS DURING STORAGE.
   - 3.6. EACH PIECE OF EQUIPMENT SHALL BE CLEARLY LABELED TO CORRESPOND WITH ITS ORIGINAL LOCATION AND RE-INSTALLATION PLAN.
4. CLEANING AND REFURBISHMENT
   - 4.1. PRIOR TO RE-SETTING, THE CONTRACTOR SHALL CLEAN ALL RECLAIMED EQUIPMENT TO REMOVE DIRT, DEBRIS, RUST, OR OTHER CONTAMINANTS.
   - 4.2. MINOR REPAIRS, SUCH AS SANDING AND REPAINTING SURFACES WITH MANUFACTURER-APPROVED COATINGS, SHALL BE PERFORMED BY THE OWNER. ALL MOVING PARTS (E.G., SWINGS, HINGES) SHALL BE INSPECTED, LUBRICATED, AND RESTORED TO FULL FUNCTIONALITY - THIS WORK WILL ALSO BE THE RESPONSIBILITY OF THE OWNER.
5. RE-SETTING AND INSTALLATION
   - 5.1. THE CONTRACTOR SHALL RE-INSTALL THE RECLAIMED PLAYGROUND EQUIPMENT AT THE LOCATIONS INDICATED ON THE DRAWINGS, ENSURING PROPER ALIGNMENT, LEVELING, AND STABILITY.
   - 5.2. FOUNDATIONS (E.G., CONCRETE FOOTINGS) SHALL BE INSPECTED AND REPAIRED OR REPLACED AS NECESSARY TO MEET CURRENT SAFETY AND STRUCTURAL STANDARDS. NEW FOOTINGS, IF REQUIRED, SHALL MATCH THE SPECIFICATIONS FOR THE ORIGINAL INSTALLATION OR AS UPDATED IN THE CONTRACT DOCUMENTS.
   - 5.3. ALL RE-INSTALLED EQUIPMENT SHALL BE SECURELY ANCHORED AND TESTED TO ENSURE IT MEETS LOAD-BEARING AND SAFETY REQUIREMENTS PER APPLICABLE STANDARDS.
6. SAFETY SURFACING
   - 6.1. THE CONTRACTOR SHALL COORDINATE THE REINSTALLATION OF PLAYGROUND EQUIPMENT WITH THE INSTALLATION OR RESTORATION OF SAFETY SURFACING (E.G., ENGINEERED WOOD FIBER, RUBBER TILES, OR POURED-IN-PLACE SURFACING) AS SPECIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS.
   - 6.2. SURFACING SHALL EXTEND TO THE REQUIRED FALL ZONES AS DEFINED BY CPSC AND ASTM STANDARDS, BASED ON THE HEIGHT AND TYPE OF EQUIPMENT.
7. TESTING AND CERTIFICATION
   - 7.1. UPON COMPLETION OF RE-SETTING, THE CONTRACTOR SHALL CONDUCT A FULL OPERATIONAL TEST OF THE PLAYGROUND EQUIPMENT TO VERIFY FUNCTIONALITY AND SAFETY.
   - 7.2. THE CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION THAT THE RE-INSTALLED EQUIPMENT COMPLIES WITH ALL APPLICABLE SAFETY STANDARDS AND IS READY FOR USE. IF REQUIRED, A THIRD-PARTY PLAYGROUND SAFETY INSPECTOR (CERTIFIED PLAYGROUND SAFETY INSPECTOR, CPSI) SHALL BE ENGAGED TO VERIFY COMPLIANCE AT THE CONTRACTOR'S EXPENSE.
8. CLEANUP AND DISPOSAL
   - 8.1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY DEBRIS, PACKAGING, OR NON-REUSABLE COMPONENTS GENERATED DURING THE RECLAMATION AND RE-SETTING PROCESS IN ACCORDANCE WITH LOCAL REGULATIONS. THE SITE SHALL BE LEFT IN A CLEAN, SAFE, AND FULLY OPERATIONAL CONDITION UPON COMPLETION.
9. COORDINATION AND SCHEDULING
   - 9.1. THE CONTRACTOR SHALL COORDINATE ALL RECLAMATION AND RE-SETTING ACTIVITIES WITH OTHER TRADES TO AVOID DELAYS OR CONFLICTS WITH CONCURRENT SITE WORK.
   - 9.2. A DETAILED SCHEDULE FOR REMOVAL, STORAGE, AND REINSTALLATION SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO COMMENCING WORK.

OWNER PURCHASE ITEMS & GC REQUIREMENTS

1. PLAYGROUND EQUIPMENT: THE OWNER SHALL PURCHASE THE FOLLOWING PLAYGROUND EQUIPMENT AND INSTALLATION OF THE EQUIPMENT BY A FACTORY CERTIFIED INSTALLER.
   - 1.1. (1) GAMETIME RABBIT HOP
   - 1.2. (2) GAMETIME THREE BAY SWING SET
   - 1.3. (1) GAMETIME SINGLE BAY SWING SET
   - 1.4. (3) GAMETIME DOUBLE ARCH SWING SET
   - 1.5. (1) GAMETIME DUO ROCKER
   - 1.6. (1) GAMETIME SENSORY WAVE GROUND LEVEL TRANSFER
   - 1.7. (1) GAMETIME SPACE WHIRL
   - 1.8. (1) GAMETIME MINITURE WHIRL
   - 1.9. (1) GAMETIME COMMUNICATION BOARD
   - 1.10. EQUIPMENT FREIGHT COST TO THE PROJECT SITE
   - 1.11. INSTALLATION OF THE PLAYGROUND EQUIPMENT BY A FACTORY CERTIFIED INSTALLER.
   - 1.12. ENGINEERED WOOD FIBER SURFACING & INSTALLATION.
2. THE GENERAL CONTRACTOR SHALL INSTALL DRAIN TILE BELOW THE ENGINEERED WOOD FIBER. REFER TO THE SAFETY SURFACING DETAIL FOR MORE INFORMATION.
3. THE GENERAL CONTRACTOR SHALL INSTALL ALL CONCRETE WALKS, CURBS, AND MAIN DRAINAGE PIPING PRIOR TO THE PLAYGROUND INSTALLATION.
4. THE *GENERAL CONTRACTOR* SHALL WORK WITH THE PLAYGROUND COMPANY FOR ITS EQUIPMENT LAYOUT TO ENSURE THAT ALL SAFETY ZONE REQUIREMENTS ARE MET.
5. THE *GENERAL CONTRACTOR* SHALL WORK WITH THE PLAYGROUND COMPANY FOR A DELIVERY AND LAYOUT AREA FOR THE EQUIPMENT & SURFACING MATERIAL.
6. FOR ANY QUESTIONS REGARDING THE PLAYGROUND EQUIPMENT OR INSTALLATION PLEASE CONTACT JON HARWOOD, CUNNINGHAM RECREATION, jharwood@cunninghamrec.com

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04/03/2025

PROJECT:
Robinson CUSD #2

WASHINGTON ELEMENTARY RENOVATION & ADDITION

WASHINGTON ELEM.SCHOOL
507 W.Condit St.
Robinson, Il 62454

DATE:	04/03/2025
DESIGNED:	LMS
DRAWN:	LMS
REVIEWED:	JLH
FIELD BOOK NO.:	-

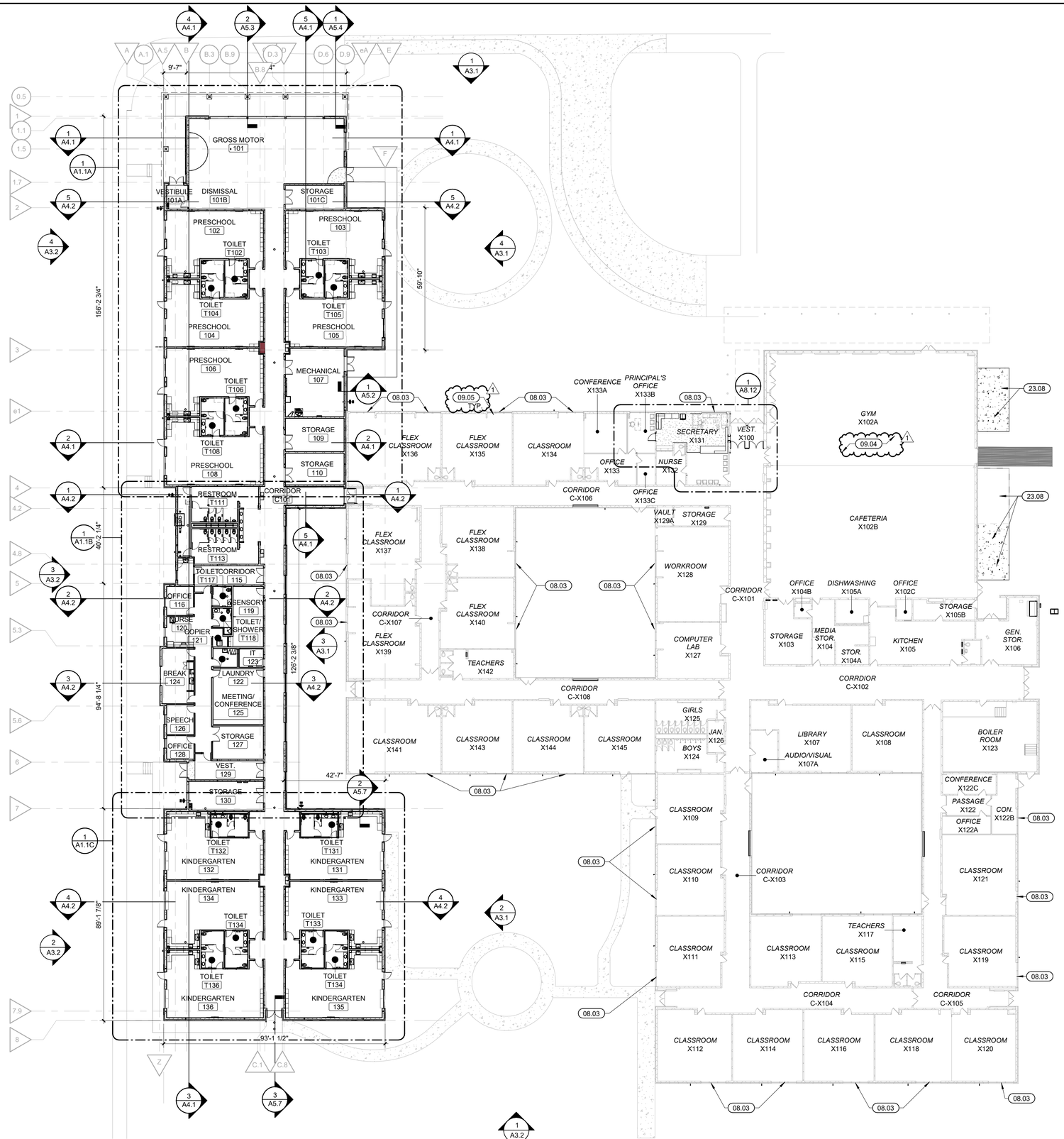
SHEET TITLE:

OVERALL PLAYGROUND LAYOUT PLAN

SHEET NUMBER:

L1.1

PROJECT NO.: 02401781.001



1 **OVERALL FLOOR PLAN**

SCALE: 3/64" = 1'-0"

PLAN GENERAL NOTES

A. REFER TO LIFE SAFETY AND PARTITIONS FOR LOCATION OF RATED PARTITIONS, SEPARATION INFORMATION, AND PARTITION TYPES. ALL INTERIOR PARTITIONS ARE TYPE 1 UNLESS OTHERWISE NOTED OR SHOWN.

B. ALL DIMENSIONS ARE TO FACE OF STUD, CMU AND/OR CONCRETE UNLESS NOTED OTHERWISE.

C. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.

D. ALL NEW WORK SHALL BE PLUMB TRUE, AND LEVEL UNLESS OTHERWISE NOTED.

E. EXTEND FIRE RESISTANT CONSTRUCTION TO STRUCTURE ABOVE. EXTEND PARTITIONS AROUND EQUIPMENT, CABINETS, AND OTHER ITEMS THAT PENETRATE THESE PARTITIONS AND FILL VOIDS IN PARTITIONS ABOVE CEILING TO MAINTAIN DESIGNATED FIRE RESISTANCE. SEE LIFE SAFETY SHEET(S) FOR FURTHER FIRE AND SMOKE RESISTANCE INFORMATION.

F. DISSIMILAR FLOOR MATERIALS SHALL MEET UNDER CENTER OF DOOR LEAF

G. REFER TO STRUCTURAL DRAWINGS FOR FRAMING INFORMATION AND FRAMING DIMENSIONS.

H. ALL APPLIANCES ARE TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED OR SHOWN.

I. VERIFY ALL APPLIANCE DIMENSIONS PRIOR TO FINAL MILLWORK CONSTRUCTION.

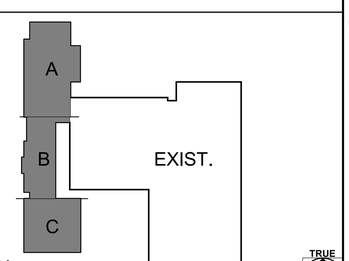
J. FURNITURE IS SHOWN FOR REFERENCE ONLY AND IS NOT IN CONTRACT.

K. REFER TO CIVIL DRAWINGS FOR EXTERIOR EGRESS AND GUARDRAILS. 1

L. ALL EXISTING FINISHES SHALL REMAIN UNLESS OTHERWISE NOTED. PATCH AND PAINT, INSTALL ADDITIONAL CEILING GRIDS OR TILES, ETC. AS REQUIRED IN ORDER TO PERFORM NECESSARY MECHANICAL INSTALLATION.

KEYNOTES (BY DIVISION)

DIVISION 08: OPENINGS	
08.03	REPLACE EXISTING LOUVERS WITHIN EXISTING STOREFRONT ASSEMBLIES WITH 1" INSULATED METAL PANELS - FINISH TO MATCH EXISTING. SEE AD1.1 FOR MORE INFORMATION.
DIVISION 09: FINISHES	
09.04	ENSURE EXISTING GYM FLOOR IS PROTECTED DURING MECHANICAL WORK.
09.05	INSTALL LVT FLOORING IN EXISTING CLASSROOMS WHERE EXISTING UNIT HEATER IS REMOVED. LVT FLOORING TO MATCH EXISTING.
DIVISION 23: HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)	
23.08	GROUND MOUNTED MECHANICAL EQUIPMENT - SEE MECHANICAL



KEY PLAN

SCALE: NO SCALE

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PROJECT:

Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	APH
DRAWN:	TMM
REVIEWED:	APH/SCB/JB

SHEET TITLE:

OVERALL FLOOR PLAN

SHEET NUMBER:

A1.1

PROJECT NO.: 02401781.001

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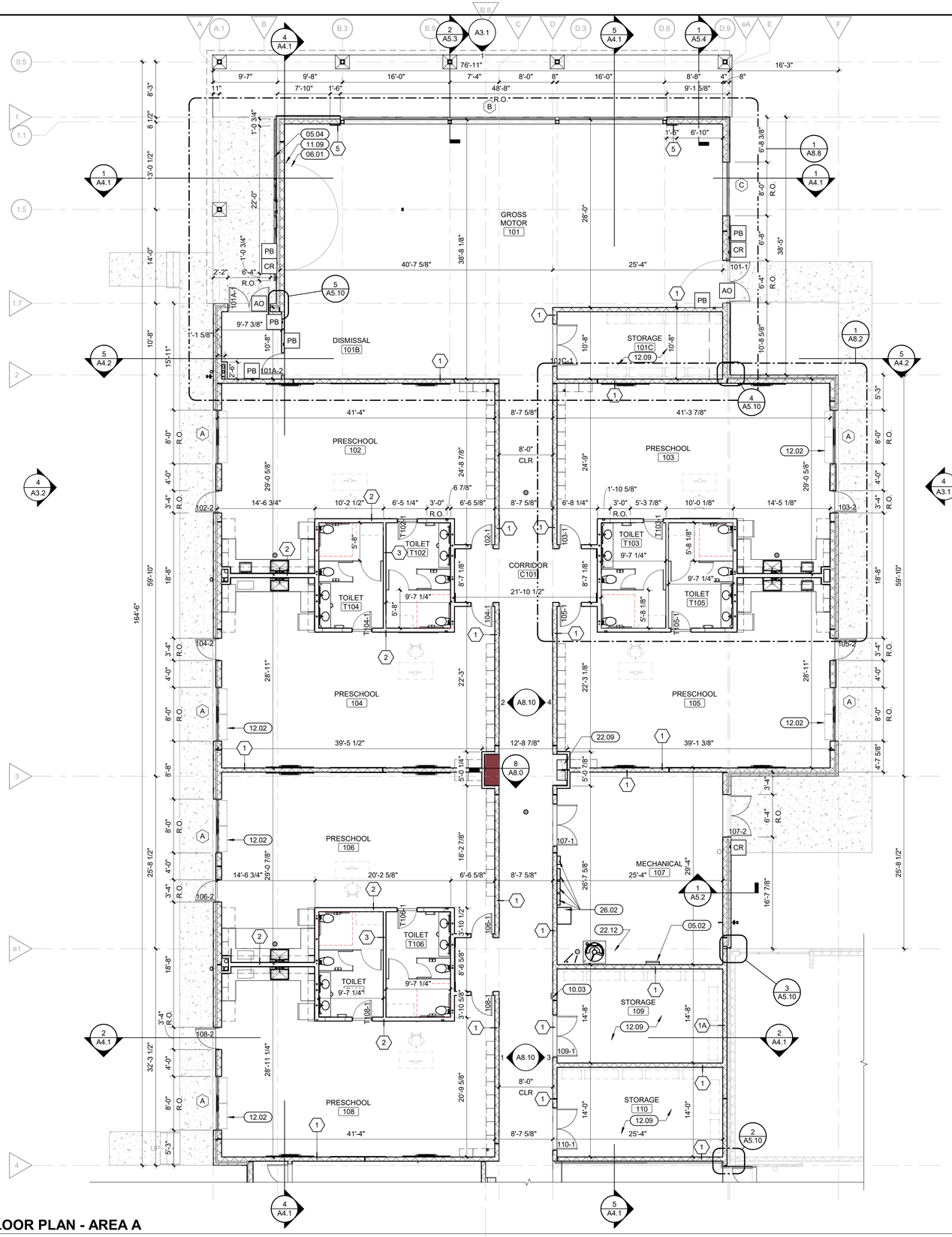

PLAN GENERAL NOTES

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F. DISSIMILAR FLOOR MATERIALS SHALL MEET UNDER CENTER OF DOOR LEAF

G. REFER TO STRUCTURAL DRAWINGS FOR FRAMING INFORMATION AND FRAMING DIMENSIONS.

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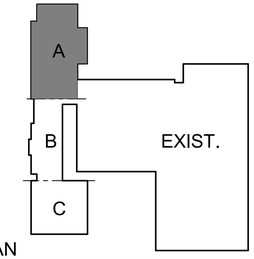
KEYNOTES (BY DIVISION) #.#

DIVISION 05: METALS	
05.02	EXTERIOR PRIMED 2'-0" STEEL ROOF ACCESS LADDER, PAINT.
05.04	EXTERIOR PIPE AND TUBE STEEL HANDRAILS, PAINT. SEE A6.1 & CIVIL.
DIVISION 06: WOOD, PLASTICS, AND COMPOSITES	
06.01	8" RAISED FLOOR AREA - SEE INTERIORS FOR FINISH INFORMATION
DIVISION 10: SPECIALTIES	
10.03	SEMI-RECESSED FIRE EXTINGUISHER CABINET (CFCI).
DIVISION 11: EQUIPMENT	
11.09	RETRACTABLE PROJECTOR SCREEN (CFCI)
DIVISION 12: FURNITURE	
12.02	BELOW WINDOW BENCH (OFCI)
12.09	INDUSTRIAL SHELVING/ROLLING CART (OFCI)
DIVISION 22: PLUMBING	
22.09	CHILDREN'S ADA DRINKING FOUNTAIN WITH BOTTLE FILLING STATION (CFCI)- SEE PLUMBING
22.12	WATER HEATER ON CONCRETE PAD - SEE PLUMBING
DIVISION 26: ELECTRICAL	
26.02	ELECTRICAL PANELS - SEE ELECTRICAL

DOOR LEGEND

CR	CARD READER
PB	PUSH BUTTON FOR AUTO OPERATOR
AO	AUTOMATIC DOOR OPERATOR



KEY PLAN
SCALE: NO SCALE

1 **ENLARGED FLOOR PLAN - AREA A**
SCALE: 1/8" = 1'-0"

0 4 8 16

PLAN NORTH / TRUE NORTH

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PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	APH
DRAWN:	TMM
REVIEWED:	APH/SCB/JB

SHEET TITLE:
ENLARGED FLOOR PLAN - AREA A

SHEET NUMBER:
A1.1A

PROJECT NO.: 02401781.001

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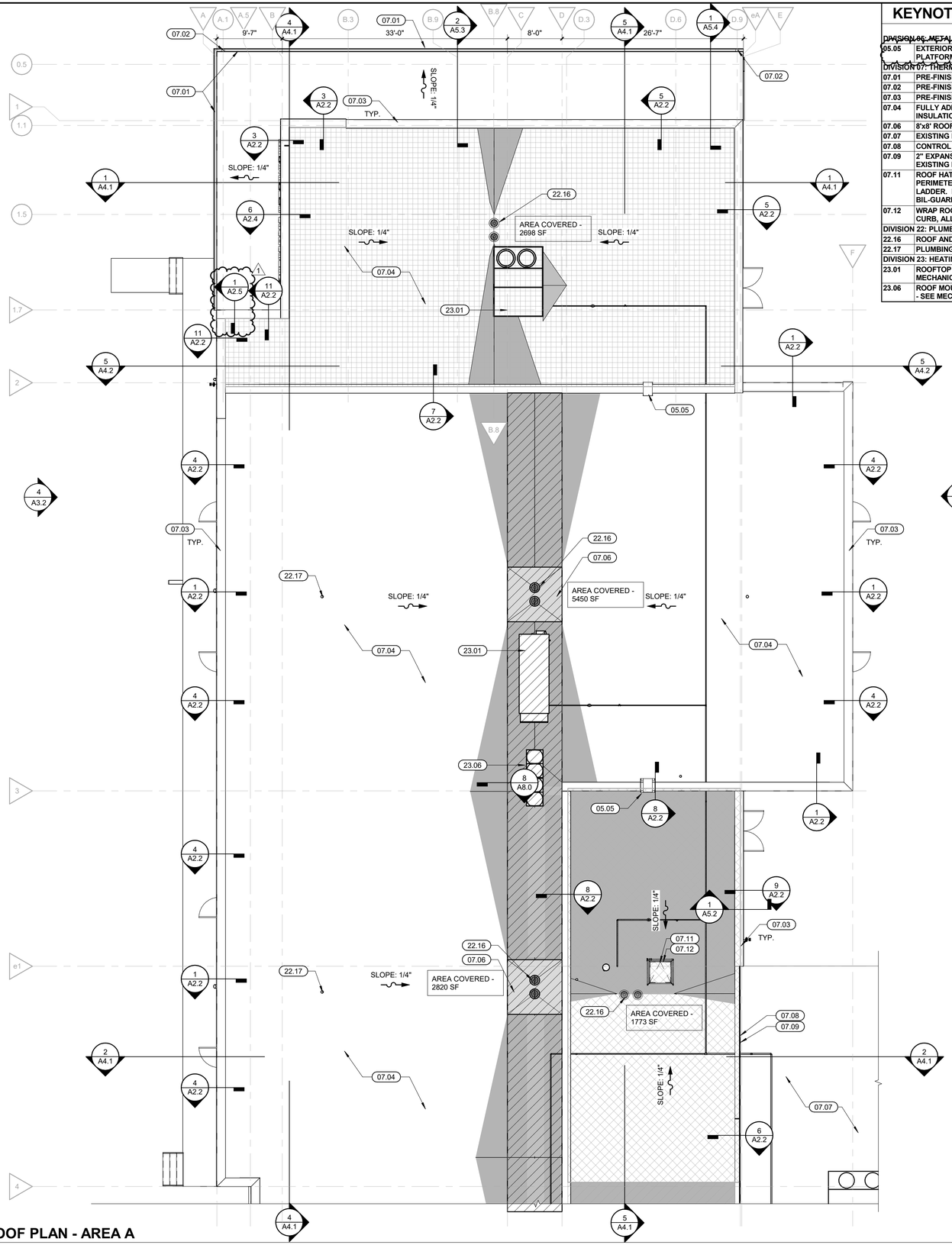


1 **ENLARGED ROOF PLAN - AREA A**

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

0 4 8 16 32

KEYNOTES (BY DIVISION) #.##

DIVISION 05: METALS	
05.05	EXTERIOR PRIMED 2'-0" STEEL ROOF ACCESS LADDER WITH PARAPET PLATFORM AND RETURN, PAINT.
DIVISION 07: THERMAL AND MOISTURE PROTECTION	
07.01	PRE-FINISHED ALUMINUM GUTTERS
07.02	PRE-FINISHED ALUMINUM DOWNSPOUT
07.03	PRE-FINISHED METAL COPING
07.04	FULLY ADHERED MEMBRANE ROOF SYSTEM OVER R-30 LTTR RIGID ROOF INSULATION MINIMUM, ON SLOPED ROOF STRUCTURE
07.06	8'x8' ROOF DRAIN SET, B.O.D. SURESLOPE DST
07.07	EXISTING ROOF TO REMAIN
07.08	CONTROL JOINT ALONG ENTIRE NEW WALL AT EXISTING WALL CONDITION
07.09	2" EXPANSION JOINT AT ALL LOCATIONS WHERE ADDITION CONNECTS TO EXISTING BUILDING, TYPICAL. B.O.D. INPRO 1200 SERIES
07.11	ROOF HATCH ENCLOSED WITH GUARDRAIL/FALL PROTECTION RAIL AROUND THE PERIMETER AND GATE WITH TELESCOPING SAFETY POST AT THE TOP OF LADDER. BOD BILCO 3'-0" x 3'-0" TYPE SS-20 ROOF HATCH SYSTEM WITH BIL-GUARD 2.0 HATCH RAIL SYSTEM.
07.12	WRAP ROOFING MEMBRANE UP, OVER, AND DOWN FACE OF THE ROOF HATCH CURB, ALL AROUND.
DIVISION 22: PLUMBING	
22.16	ROOF AND OVERHEAD DRAIN - SEE PLUMBING.
22.17	PLUMBING PIPE ROOF PENETRATION. SEE ROOF DETAILS.
DIVISION 23: HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)	
23.01	ROOFTOP UNIT. PROVIDE CRICKET TO ENSURE PROPER DRAINAGE - SEE MECHANICAL. SEE ROOF DETAILS FOR TYPICAL ROOF CURB.
23.06	ROOF MOUNTED HEAT PUMP. PROVIDE CRICKET TO ENSURE PROPER DRAINAGE - SEE MECHANICAL. SEE ROOF DETAILS FOR TYPICAL ROOF CURB.

ROOF GENERAL NOTES

A. ALL ROOF SURFACES TO SLOPE AT A MINIMUM 1/4" PER FOOT UNLESS OTHERWISE NOTED OR SHOWN.PROVIDE TAPERED INSULATION WHERE INDICATED OR REQUIRED TO PROVIDE POSITIVE DRAINAGE TO ROOF DRAINS AT A MINIMUM 1/4" PER FOOT. TAPERED INSULATION LAYOUT AS SHOWN IS TO COMMUNICATE GENERAL DRAIN STRATEGY - ACTUAL AMOUNT MAY VARY.

B. ALL ROOF AREAS MUST HAVE POSITIVE DRAINAGE UNLESS SHOWN OTHERWISE. NO PONDING OF WATER OVER 1/8" IN DEPTH WILL BE ACCEPTABLE AT ROOF DRAINS. COORDINATE CRICKET WITH SUMP AND EQUIPMENT FLASHINGS.

C. COORDINATE ROOF DRAIN/SCUPPER LOCATIONS WITH PLUMBING DRAWING(S).

D. COORDINATE ALL ROOF PENETRATION REQUIREMENTS, INCLUDING THOSE THAT MAY NOT BE SHOWN, WITH ROOFING CONTRACTOR, AND MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.

E. ALL ROOF PENETRATIONS TO BE IN COMPLIANCE WITH MANUFACTURER AND NRCA REQUIREMENTS.

F. ROOFING COMPONENTS MAY VARY DEPENDING ON ROOFING MANUFACTURER. CONTRACTOR SHALL INSTALL A COMPLETE CODE COMPLIANT AND WARRANTIED ROOFING SYSTEM BASED ON THE SPECIFIED ROOFING MANUFACTURERS WRITTEN INSTRUCTIONS AND INSTALLATION GUIDELINES.

G. ROOFING INSULATION THERMAL LTTR-VALUE AND CORRESPONDING R-VALUE MAY VARY DEPENDING ON INSULATION MANUFACTURER. ROOFING CONTRACTOR TO CONSULT INSULATION MANUFACTURERS WRITTEN DOCUMENTATION AND PROVIDE A ROOF INSULATION THICKNESS TO MEET OR EXCEED THE IECC REQUIREMENT.

H. PROVIDE MINIMUM 15'-0" CLEARANCE FROM ANY INTAKE FOR ALL EQUIPMENT AND VENT STACKS. ALERT DESIGN PROFESSIONAL OF ANY CONFLICTS PRIOR TO CONSTRUCTION.

I. ONCE ROOF WORK BEGINS, THE CONTRACTOR IS ACCEPTING ALL CONDITIONS AND WILL BE RESPONSIBLE FOR ALL DEMOLITION AND NEW WORK REQUIRED TO PROVIDE A WATERTIGHT ROOF SYSTEM.

J. THE CONTRACTOR SHALL ENSURE THAT UPON COMPLETION OF ROOF WORK, ALL GUTTERS, DOWNSPOUTS AND ROOF DRAINS ARE CLEAN AND CLEAR OF DEBRIS TO PROVIDE AN UNOBSTRUCTED, FREE FLOW OF WATER.

K. THE ROOF STRUCTURE IS SLOPED EXCEPT AT THE RAMPS AND THE CORRIDORS. PLEASE SEE STRUCTURAL FRAMING FOR MORE INFORMATION.

L. PATCH AND REPAIR EXISTING ROOF AS NECESSARY IN THE EXISTING BUILDING TO ACCOMMODATE NEW MECHANICAL WORK SUCH THAT EXISTING ROOF WARRANTY IS MAINTAINED.

M. HORIZONTAL JOINT ASSEMBLIES NOTED AT ROOF SHALL TIE-INTO VERTICAL EXPANSION JOINT ASSEMBLIES TO FORM A COMPLETE SYSTEM, UNLESS OTHERWISE NOTED.

N. ATTACH AND FLASH ROOF MEMBRANE AS PER ROOFING MANUFACTURER'S DETAILS PERTAINING TO TYPE OF CONSTRUCTION.

O. WHERE NEW ROOFING SYSTEM IS SHOWN TO BE INSTALLATED OVER EXISTING ROOFING MEMBRANE, CONTRACTOR TO VERIFY EXISTING SUBSTRATE. NOTIFY ARCHITECT IF CONDITIONS FOUND ARE CONTRARY TO THOSE SHOWN AND REQUIRE DETAIL ALTERATIONS.

P. CONTRACTOR SHALL VERIFY DIMENSIONS IN FIELD PRIOR TO BEGINNING CONSTRUCTION.

Q. ALL ROOF PENETRATIONS TO BE AS PER MANUFACTURER'S RECOMMENDATIONS AND NCRA RECOMMENDATION. ALL ROOF DETAILS SHALL CONFORM TO THE MANUFACTURER'S STANDARD DETAILS FOR THE TYPE OF ROOF AND TIME WARRANTY.

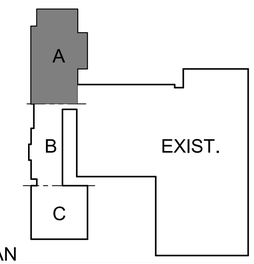
R. FOR ROOF DRAINS, ROOF TOP VENTS, AND OTHER PLUMBING ITEMS, REFER TO PLUMBING ROOF PLAN. PROVIDE CRICKET AS NEEDED.

S. FOR RTU'S, ROOF TOP VENTS, AND OTHER PLUMBING ITEMS, REFER TO MECHANICAL ROOF PLAN. PROVIDE CRICKET AS NEEDED.

T. FOR ROOF MOUNTED ELECTRICAL ITEMS, PLEASE REFER TO ELECTRICAL ROOF PLAN.

ROOF PLAN LEGEND

- CRICKET/TAPERED INSULATION
- SLOPE: X:12 — INDICATES ROOF SLOPE
- HIGH ROOF BEARING HEIGHT - 18'-2 1/2"
- MID ROOF BEARING HEIGHT - 15'-6 1/2"
- LOW ROOF BEARING HEIGHT - 13'-6 1/2"
- FLAT ROOF STRUCTURE - SEE STRUCTURAL ROOF FRAMING PLANS
- EXISTING ROOF
- ROOF HATCH



KEY PLAN

SCALE: NO SCALE

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1	04/17/2025	ADD 01

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PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	APH
DRAWN:	TMM
REVIEWED:	APH/SCB/JB

SHEET TITLE:
ROOF PLAN - AREA A

SHEET NUMBER:
A2.1A

PROJECT NO.: 02401781.001

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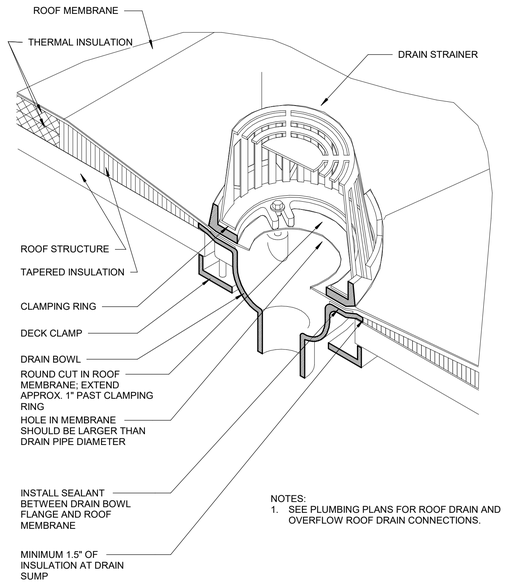
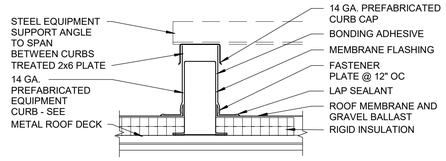
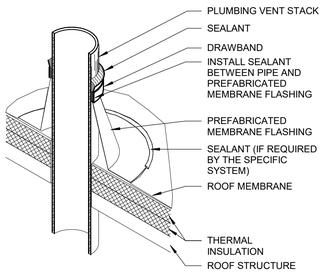


NOTES:
1. SEE PLUMBING PLANS FOR ROOF DRAIN AND OVERFLOW ROOF DRAIN CONNECTIONS.

6 TYPICAL ROOF DRAIN
SCALE: 3" = 1'-0"

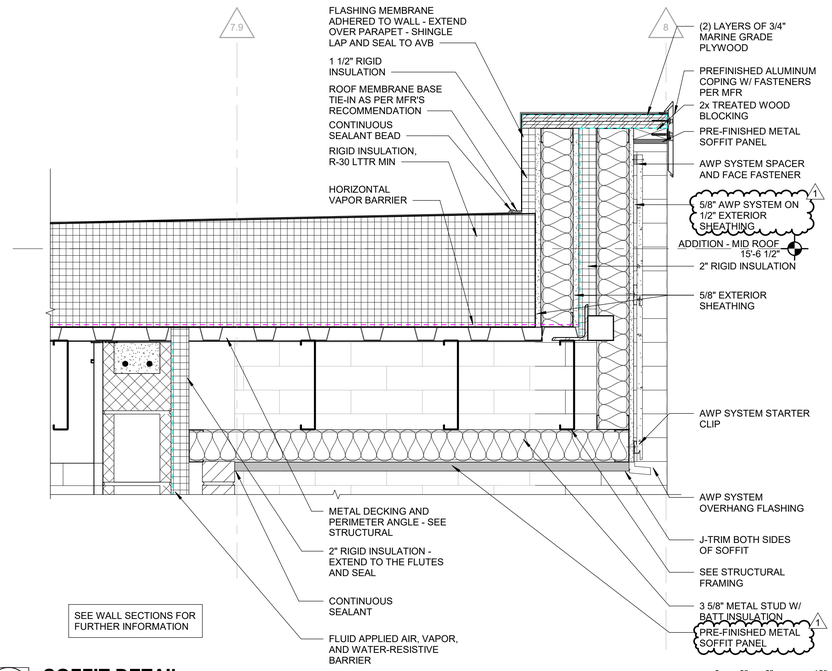


4 EQUIPMENT CURB
SCALE: 1 1/2" = 1'-0"

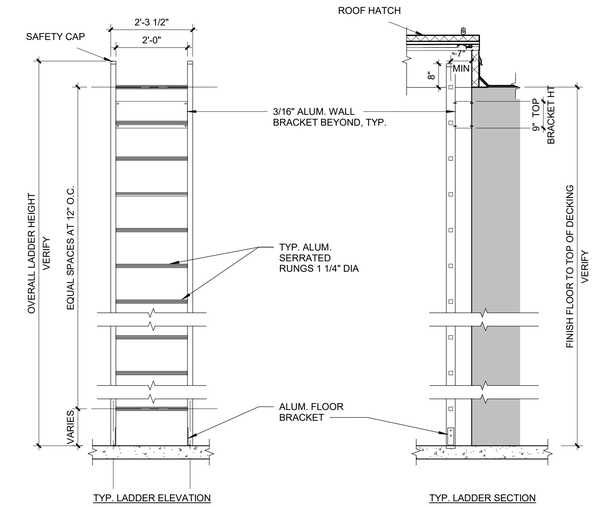


NOTES:
1. VENT STACKS AND OTHER PIPES SHALL HAVE A MINIMUM OF 12 INCHES OF CLEARANCE ON ALL SIDES FROM WALLS, CURBS, AND OTHER PROJECTIONS TO FACILITATE PROPER FLASHING.

3 TYPICAL PLUMBING VENT
SCALE: 1 1/2" = 1'-0"

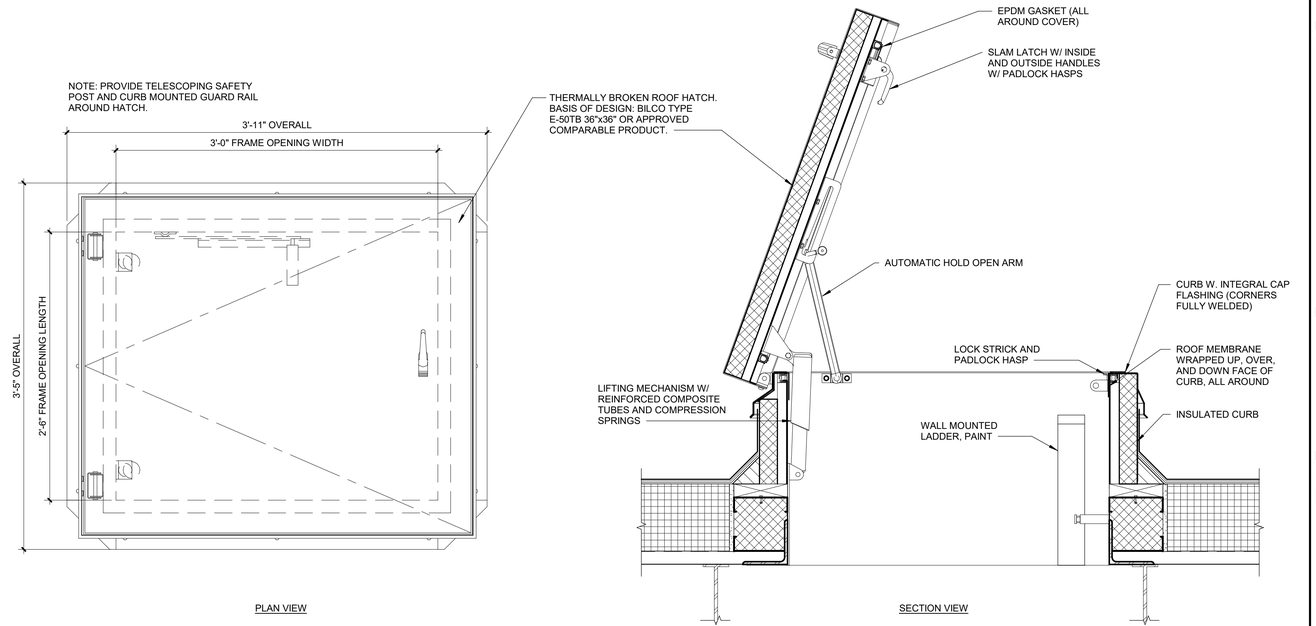


2 SOFFIT DETAIL
SCALE: 1 1/2" = 1'-0"



NOTE: PREFABRICATED ALUMINUM LADDER (MILL FINISH) AS MANUFACTURED BY O'KEEFFES, INC., MODEL #501 OR EQUAL

5 ROOF HATCH ACCESS LADDER DETAIL
SCALE: 1/2" = 1'-0"



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

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ROOF DETAILS

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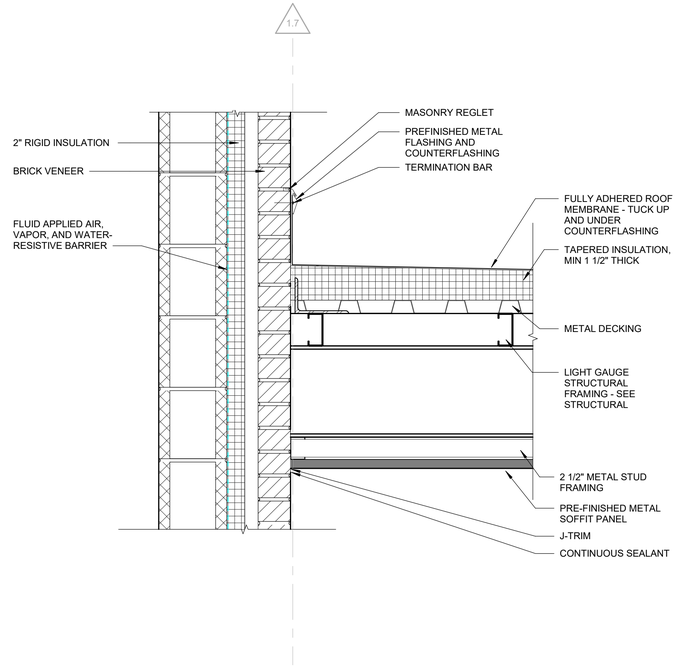

1 **CANOPY CONNECTION DETAIL AT BRICK**
SCALE: 1 1/2" = 1'-0"

0 3" 6" 12"

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CANOPY DETAILS
1

SHEET NUMBER:
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PROJECT NO.: 02401781.001

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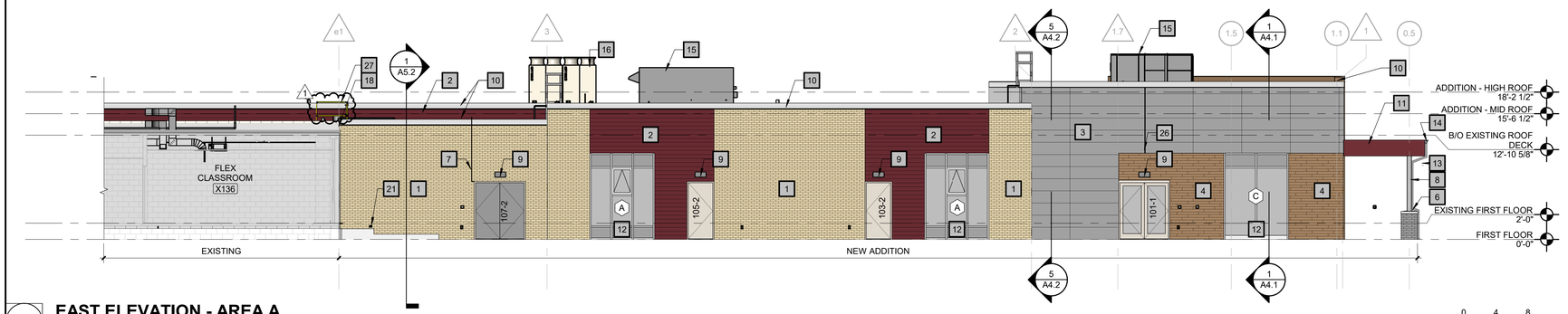
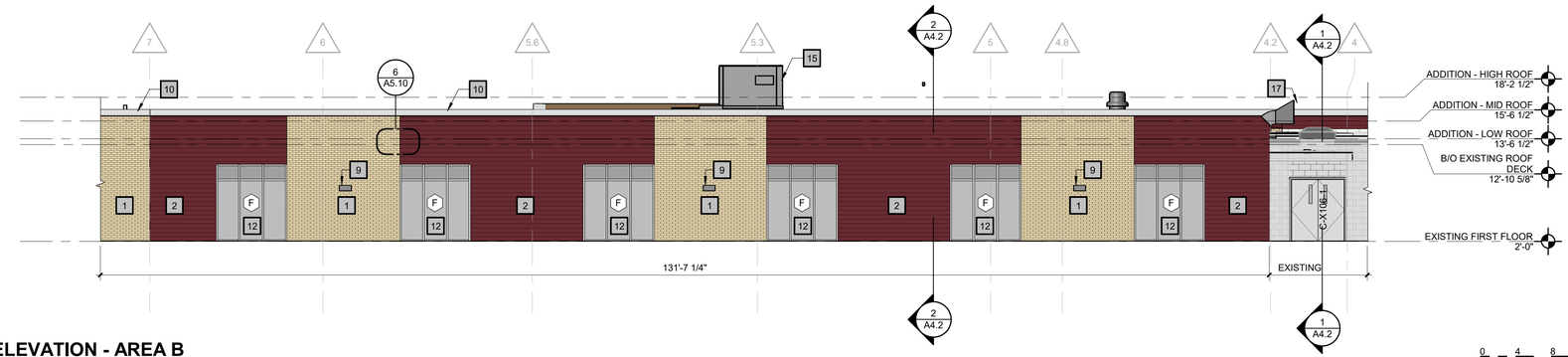


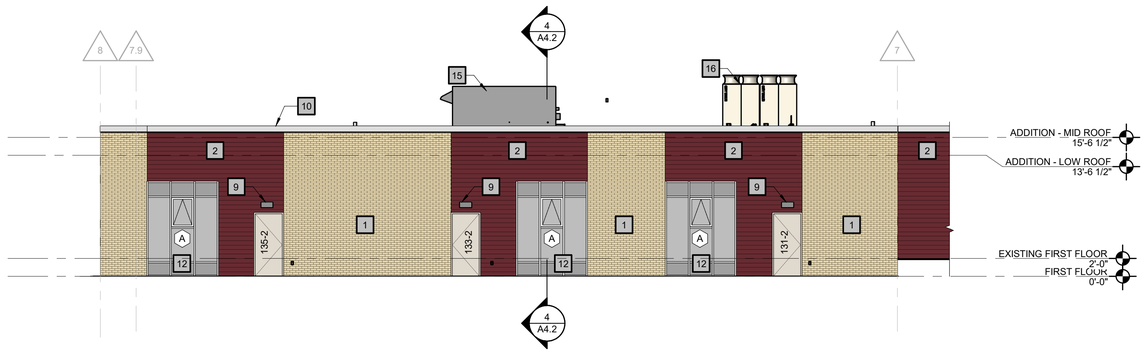
4 EAST ELEVATION - AREA A

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



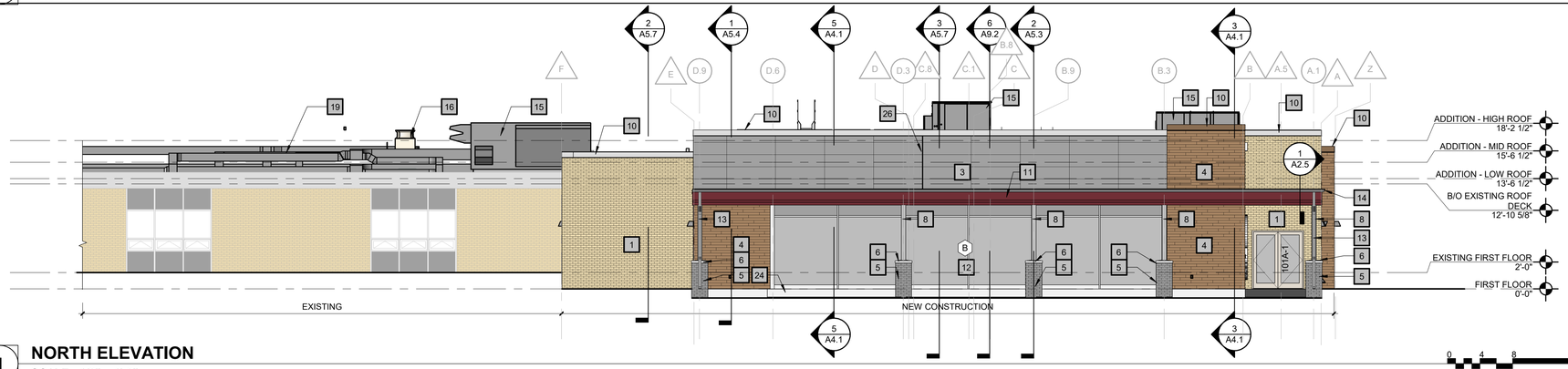
3 EAST ELEVATION - AREA B

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



2 EAST ELEVATION - AREA C

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



1 NORTH ELEVATION

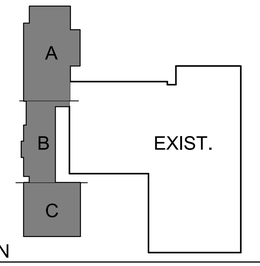
SCALE: 1/8" = 1'-0"

ELEVATION KEYNOTES

1. BRICK VENEER (COLOR 1); COLOR TO MATCH EXISTING
2. HORIZONTAL FIBER CEMENT PANEL, BASIS OF DESIGN PRODUCT (COLOR 1): NICHIHA LATURA V-GROOVE; COLOR TO BE SELECTED BY ARCHITECT AND OWNER. INDICATED AS "AWP" ON WALL DETAILS.
3. HORIZONTAL FIBER CEMENT PANEL, BASIS OF DESIGN PRODUCT (COLOR 2): NICHIHA CORBOSA; COLOR: MOONDUST. INDICATED AS "AWP" ON WALL DETAILS
4. HORIZONTAL FIBER CEMENT PANEL, BASIS OF DESIGN PRODUCT (COLOR 3): NICHIHA VINTAGEWOOD; COLOR: CEDAR. INDICATED AS "AWP" ON WALL DETAILS
5. CONCRETE BRICK VENEER (COLOR 2) ; COLOR TO BE SELECTED BY ARCHITECT AND OWNER
6. CAST STONE CAP
7. VERTICAL BRICK CONTROL JOINT
8. METAL CANOPY COLUMN - PAINT, COLOR TO BE SELECTED BY ARCHITECT AND OWNER
9. EXTERIOR WALL PACKS - SEE ELECTRICAL
10. PREFINISHED METAL COPING
11. PREFINISHED METAL WALL PANEL; BASIS OF DESIGN: PAC-CLAD FLUSH PANELS;COLOR TO BE SELECTED BY ARCHITECT AND OWNER
12. ALUMINUM STOREFRONT GLAZING ASSEMBLY
13. PREFINISHED ALUMINUM DOWNSPOUT
14. PREFINSHED ALUMINUM GUTTER
15. ROOFTOP UNIT - SEE MECHANICAL
16. ROOF MOUNTED HEAT PUMPS - SEE MECHANICAL
17. GAS PIPING - SEE PLUMBING
18. 2" EXPANSION JOINT AT ALL LOCATIONS WHERE ADDITION IS CONNECTING TO EXISTING BUILDING
19. NEW DUCTWORK ON RAILS - SEE MECHANICAL
20. PLUMBING DRAIN - SEE PLUMBING
21. WATER HOSE BIB - SEE PLUMBING
22. SIGNAGE - SEE A3.3 FOR DETAILS
23. MECHANICAL EXHAUST - SEE MECHANICAL
24. CONCRETE FOUNDATION CURB - SEE STRUCTURAL
25. EXTERIOR HANDRAIL - SEE CIVIL PLANS
26. FIBER CEMENT CONTROL JOINT
27. ROOF HATCH WITH GUARD RAILS - SEE ROOF PLAN
28. PROVIDE SPLASHBLOCK AT PLUMBING DRAIN - SEE PLUMBING

NOTE:

- ALL EXTERIOR METAL SURFACES TO BE EPOXY PAINTED - COORDINATE COLOR WITH ARCHITECT AND OWNER.
- EXTERIOR EGRESS WITH GUARDRAILS ARE NOT SHOWN FOR CLARITY. SEE CIVIL PLANS.



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DATE:	04/03/2025
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SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NUMBER:
A3.1

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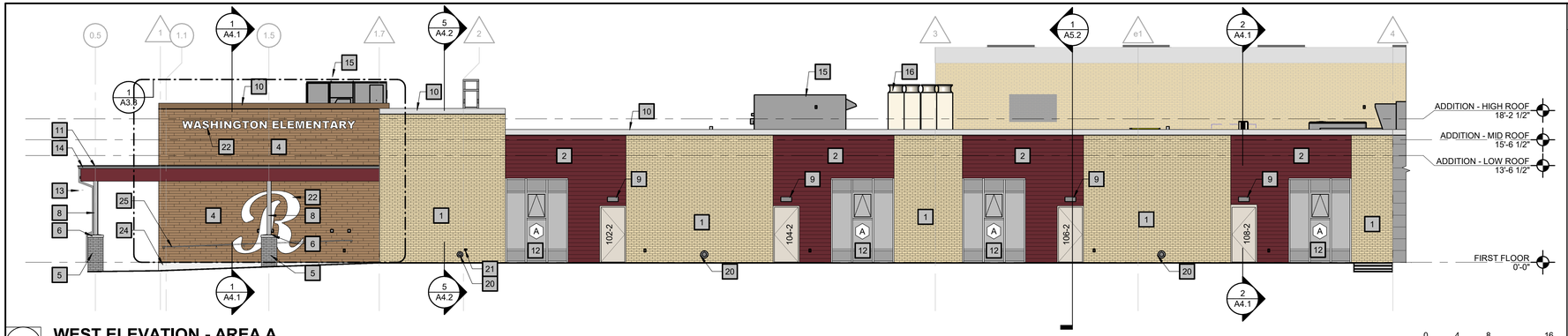
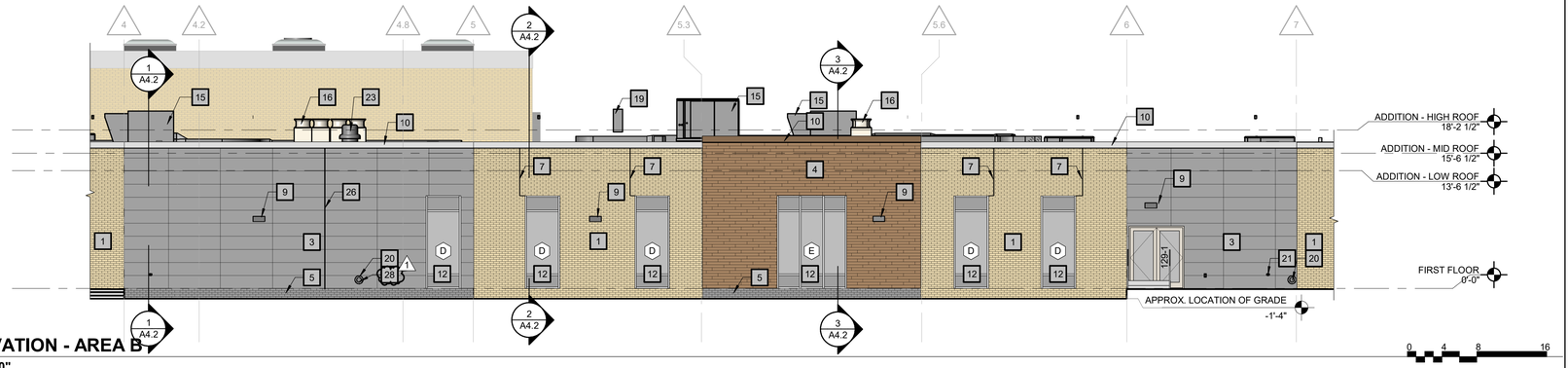


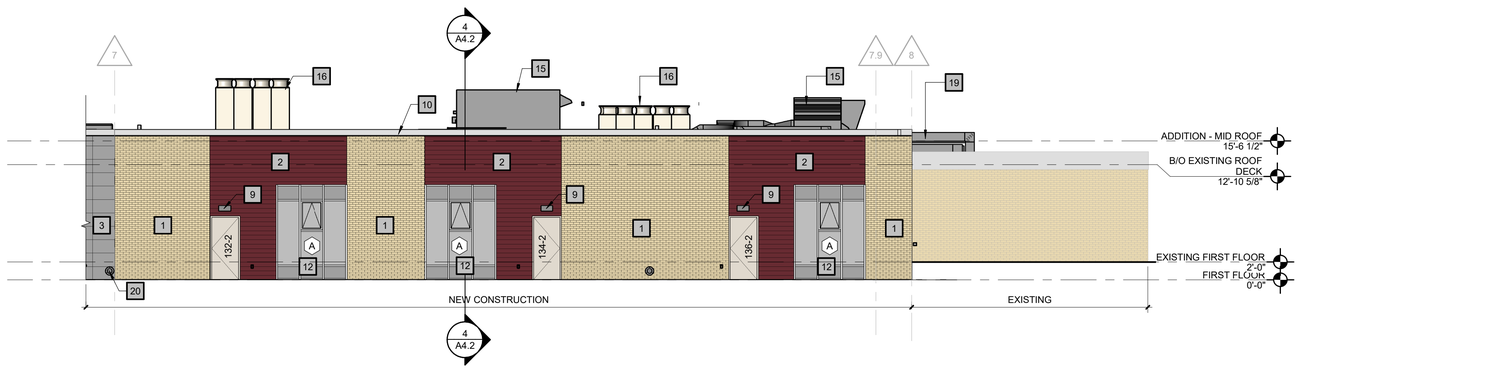
4 WEST ELEVATION - AREA A

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



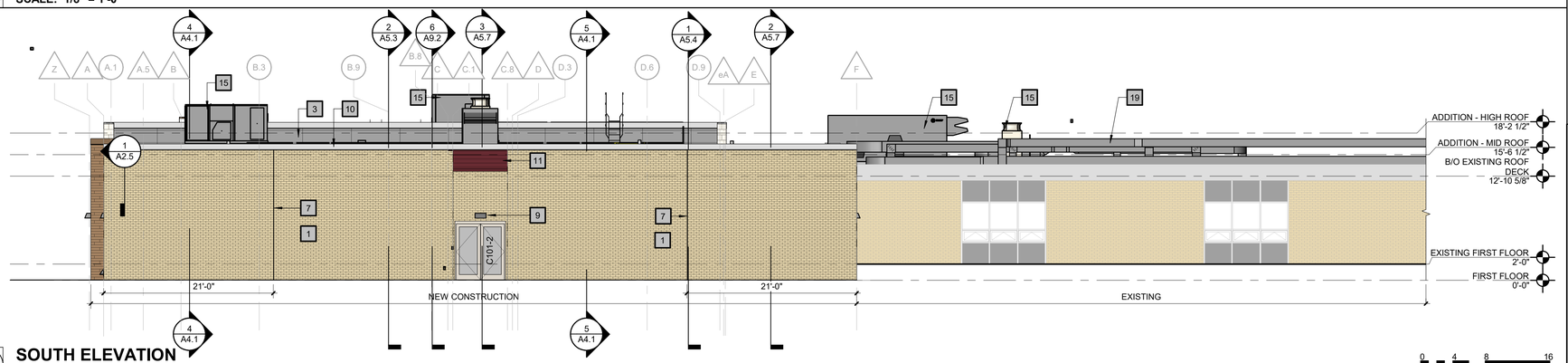
3 WEST ELEVATION - AREA B

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



2 WEST ELEVATION - AREA C

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



1 SOUTH ELEVATION

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

ELEVATION KEYNOTES

1. BRICK VENEER (COLOR 1); COLOR TO MATCH EXISTING
2. HORIZONTAL FIBER CEMENT PANEL, BASIS OF DESIGN PRODUCT (COLOR 1): NICHIHA LATURA V-GROOVE; COLOR TO BE SELECTED BY ARCHITECT AND OWNER. INDICATED AS "AWP" ON WALL DETAILS.
3. HORIZONTAL FIBER CEMENT PANEL, BASIS OF DESIGN PRODUCT (COLOR 2): NICHIHA CORBOSA; COLOR: MOONDUST. INDICATED AS "AWP" ON WALL DETAILS
4. HORIZONTAL FIBER CEMENT PANEL, BASIS OF DESIGN PRODUCT (COLOR 3): NICHIHA VINTAGEWOOD; COLOR: CEDAR. INDICATED AS "AWP" ON WALL DETAILS
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7. VERTICAL BRICK CONTROL JOINT
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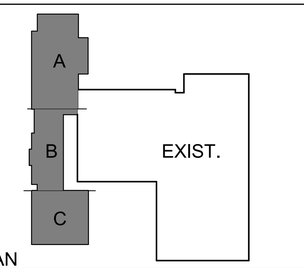
9. EXTERIOR WALL PACKS - SEE ELECTRICAL
10. PREFINISHED METAL COPING
11. PREFINISHED METAL WALL PANEL; BASIS OF DESIGN: PAC-CLAD FLUSH PANELS;COLOR TO BE SELECTED BY ARCHITECT AND OWNER
12. ALUMINUM STOREFRONT GLAZING ASSEMBLY
13. PREFINISHED ALUMINUM DOWNSPOUT
14. PREFINSHED ALUMINUM GUTTER
15. ROOFTOP UNIT - SEE MECHANICAL
16. ROOF MOUNTED HEAT PUMPS - SEE MECHANICAL
17. GAS PIPING - SEE PLUMBING
18. 2" EXPANSION JOINT AT ALL LOCATIONS WHERE ADDITION IS CONNECTING TO EXISTING BUILDING
19. NEW DUCTWORK ON RAILS - SEE MECHANICAL
20. PLUMBING DRAIN - SEE PLUMBING
21. WATER HOSE BIB - SEE PLUMBING
22. SIGNAGE - SEE A3.3 FOR DETAILS
23. MECHANICAL EXHAUST - SEE MECHANICAL
24. CONCRETE FOUNDATION CURB - SEE STRUCTURAL
25. EXTERIOR HANDRAIL - SEE CIVIL PLANS
26. FIBER CEMENT CONTROL JOINT
27. ROOF HATCH WITH GUARD RAILS - SEE ROOF PLAN
28. PROVIDE SPLASH BLOCK AT PLUMBING DRAIN - SEE PLUMBING

NOTE:

- ALL EXTERIOR METAL SURFACES TO BE EPOXY PAINTED - COORDINATE COLOR WITH ARCHITECT AND OWNER.
- EXTERIOR EGRESS WITH GUARDRAILS ARE NOT SHOWN FOR CLARITY. SEE CIVIL PLANS.



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SHEET TITLE:

EXTERIOR ELEVATIONS

SHEET NUMBER:

A3.2

PROJECT NO.: 02401781.001

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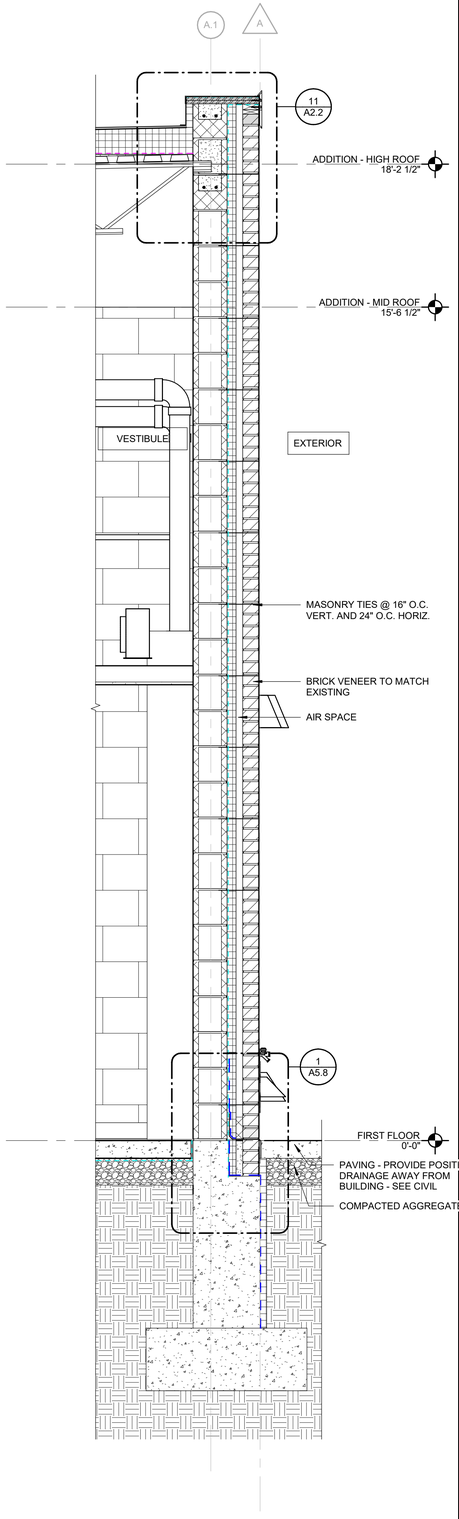
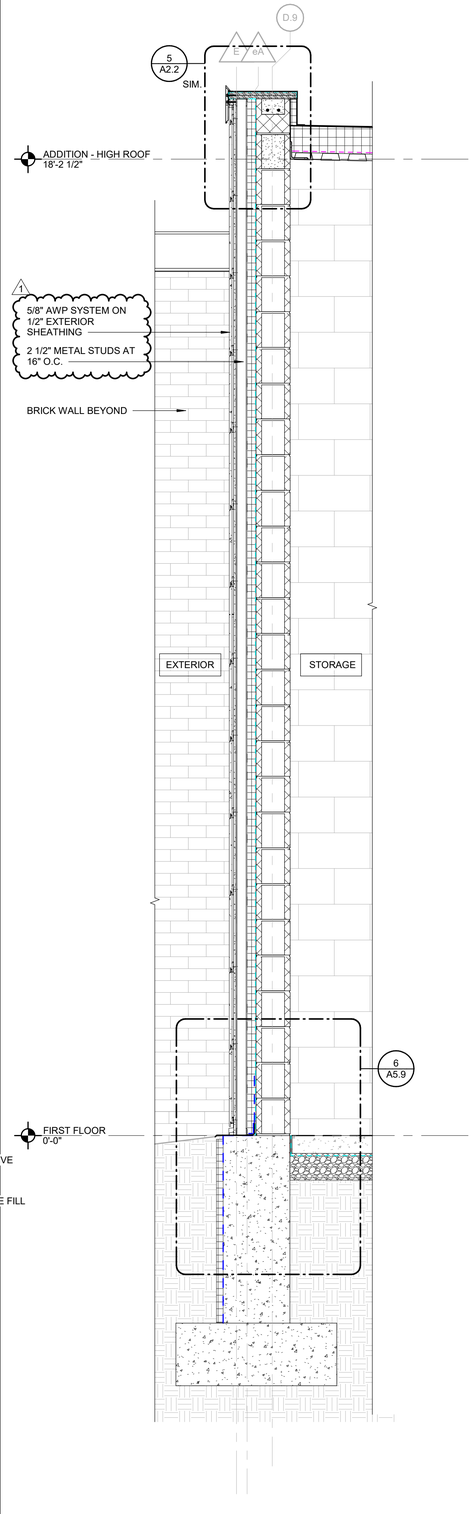
SEE SECTION 1/A5.1 & 1/A5.2 FOR TYPICAL NOTES AND DIMENSIONS, UNO.



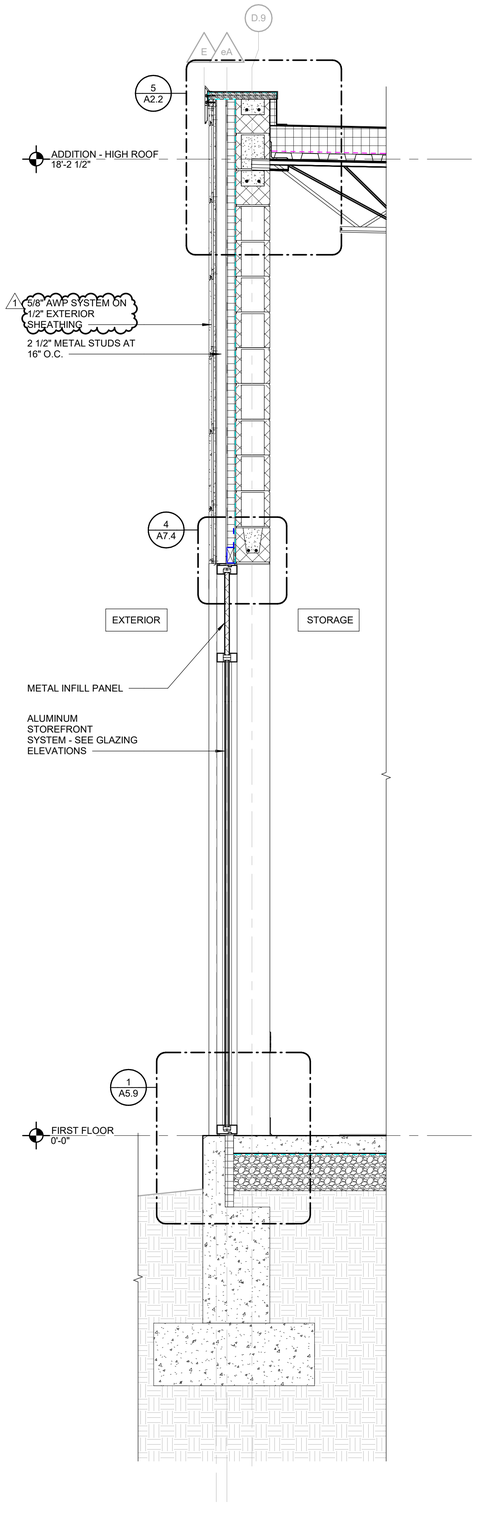
4 **WEST WALL SECTION AT VEST. 101A**
SCALE: 3/4" = 1'-0"

SEE SECTION 1/A5.1 & 1/A5.2 FOR TYPICAL NOTES AND DIMENSIONS, UNO.



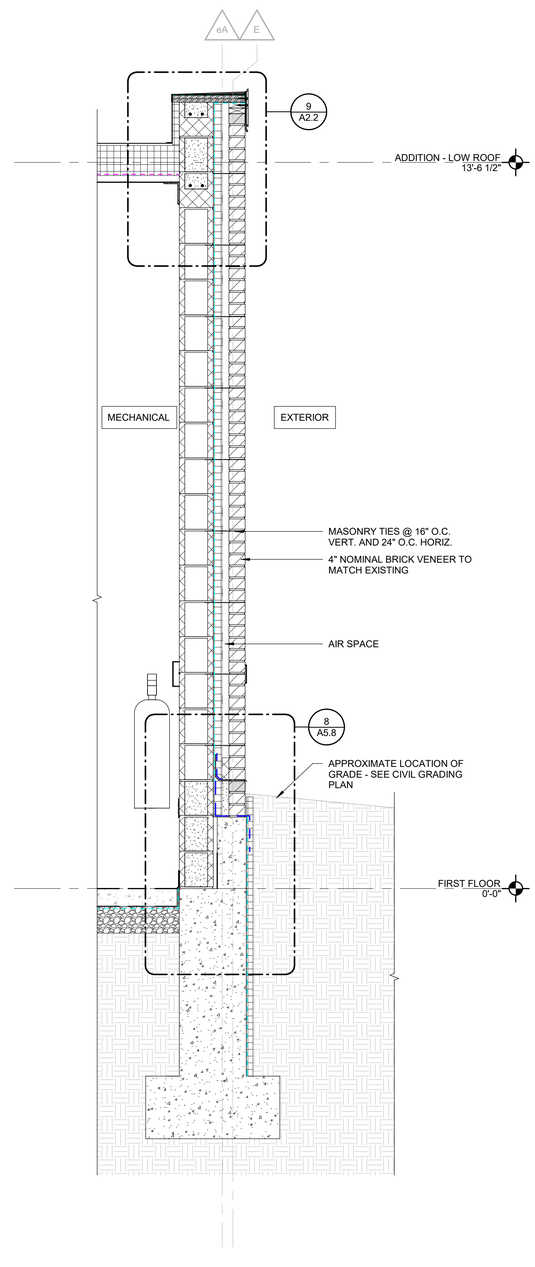
3 **EAST WALL SECTION AT STORAGE 101C**
SCALE: 3/4" = 1'-0"

SEE SECTION 1/A5.1 & 1/A5.2 FOR TYPICAL NOTES AND DIMENSIONS, UNO.



2 **EAST WALL SECTION AT GROSS MOTOR**
SCALE: 3/4" = 1'-0"

SEE SECTION 1/A5.1 FOR TYPICAL NOTES AND DIMENSIONS, UNO.



1 **EAST WALL SECTION AT MECH**
SCALE: 3/4" = 1'-0"

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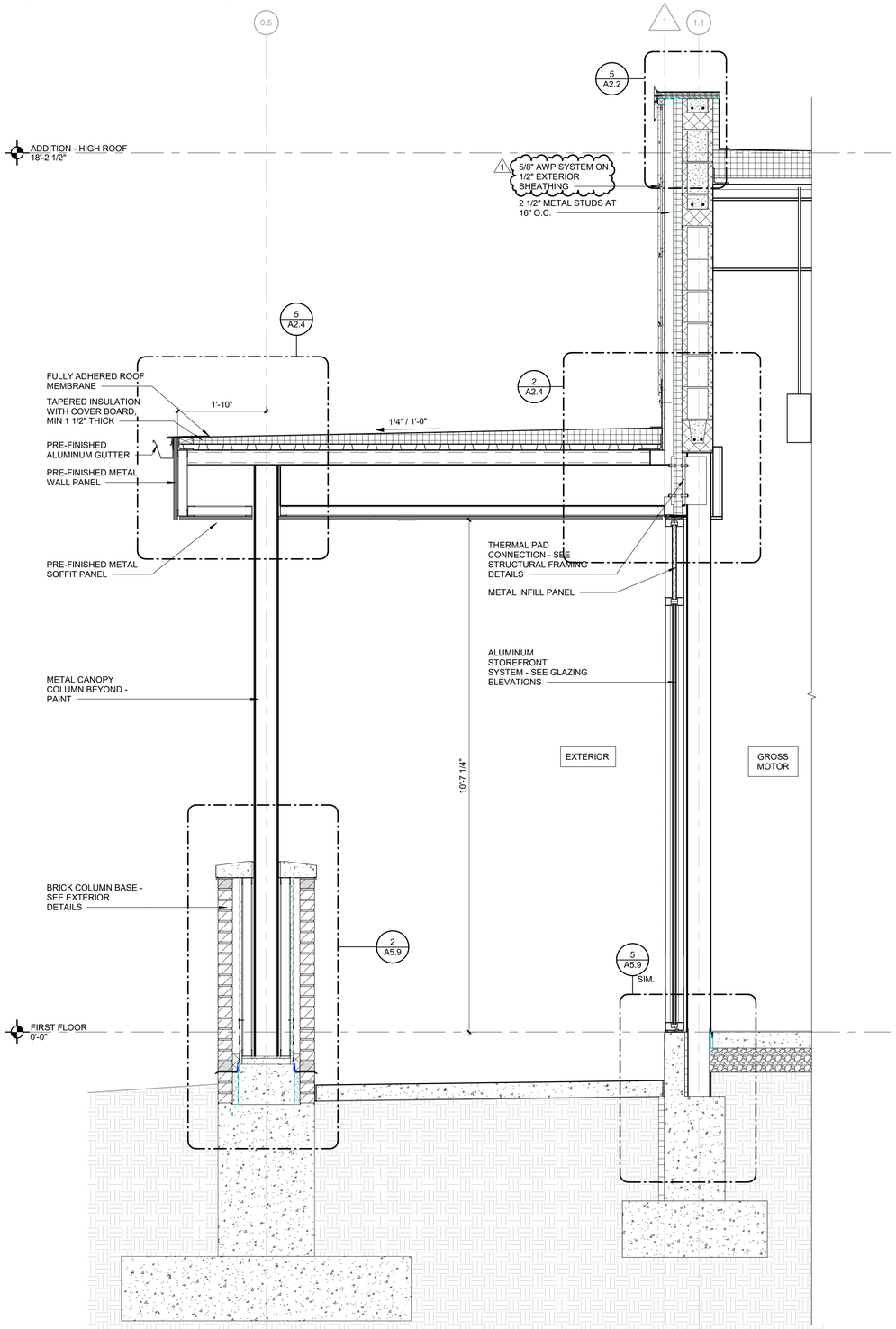
WALL SECTIONS - AREA A

SHEET NUMBER:
A5.2

PROJECT NO.: 02401781.001

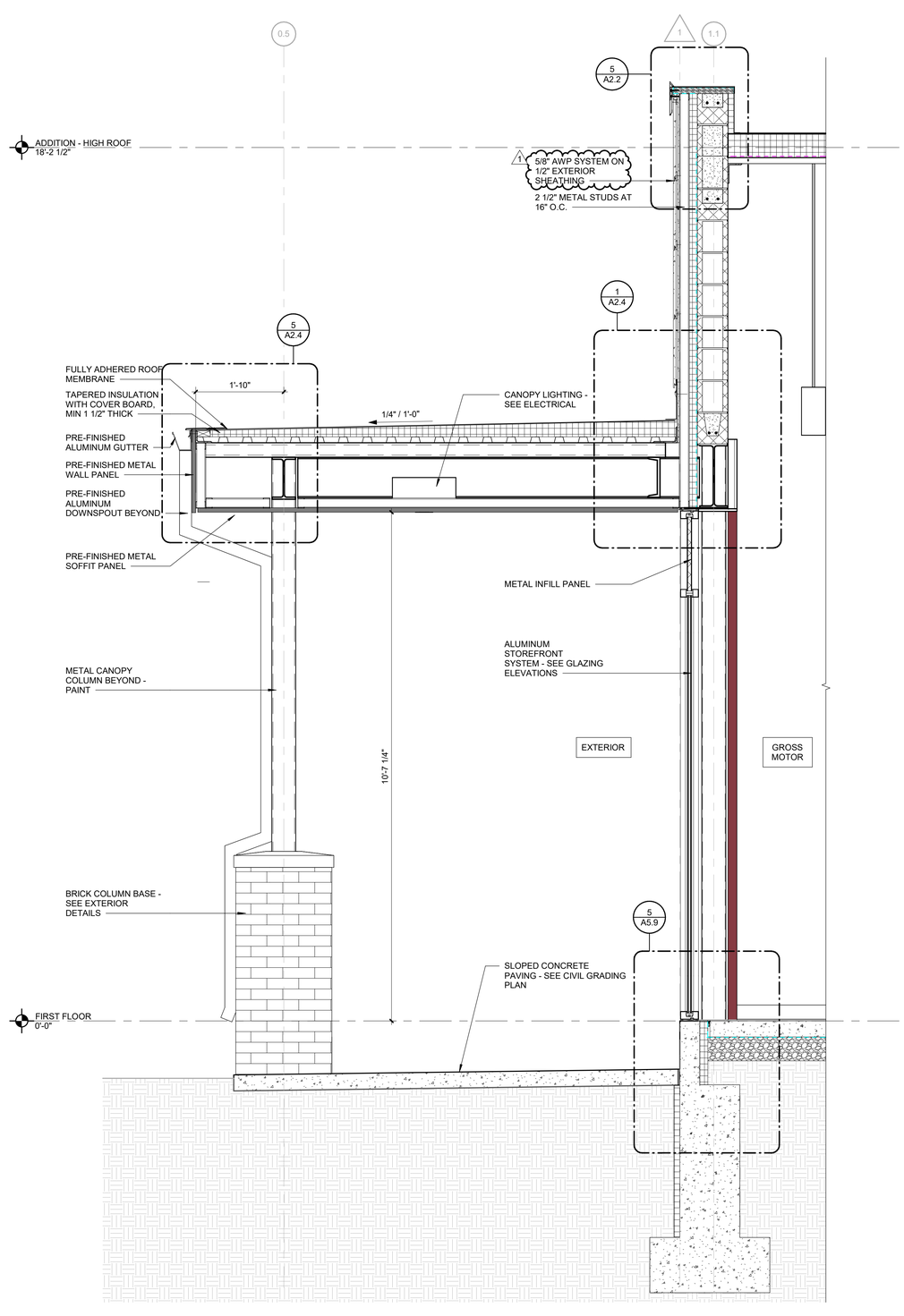
SEE SECTION 1/A5.1 & 1/A5.2 FOR TYPICAL NOTES AND DIMENSIONS, UNO.



2 **NORTH WALL SECTION AT GROSS MOTOR**

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

SEE SECTION 1/A5.1 & 1/A5.2 FOR TYPICAL NOTES AND DIMENSIONS, UNO.



1 **NORTH WALL SECTION AT GROSS MOTOR**

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

4/18/2025 4:40:09 PM

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Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	APH
DRAWN:	TMM
REVIEWED:	APH/SCB/JB

SHEET TITLE:

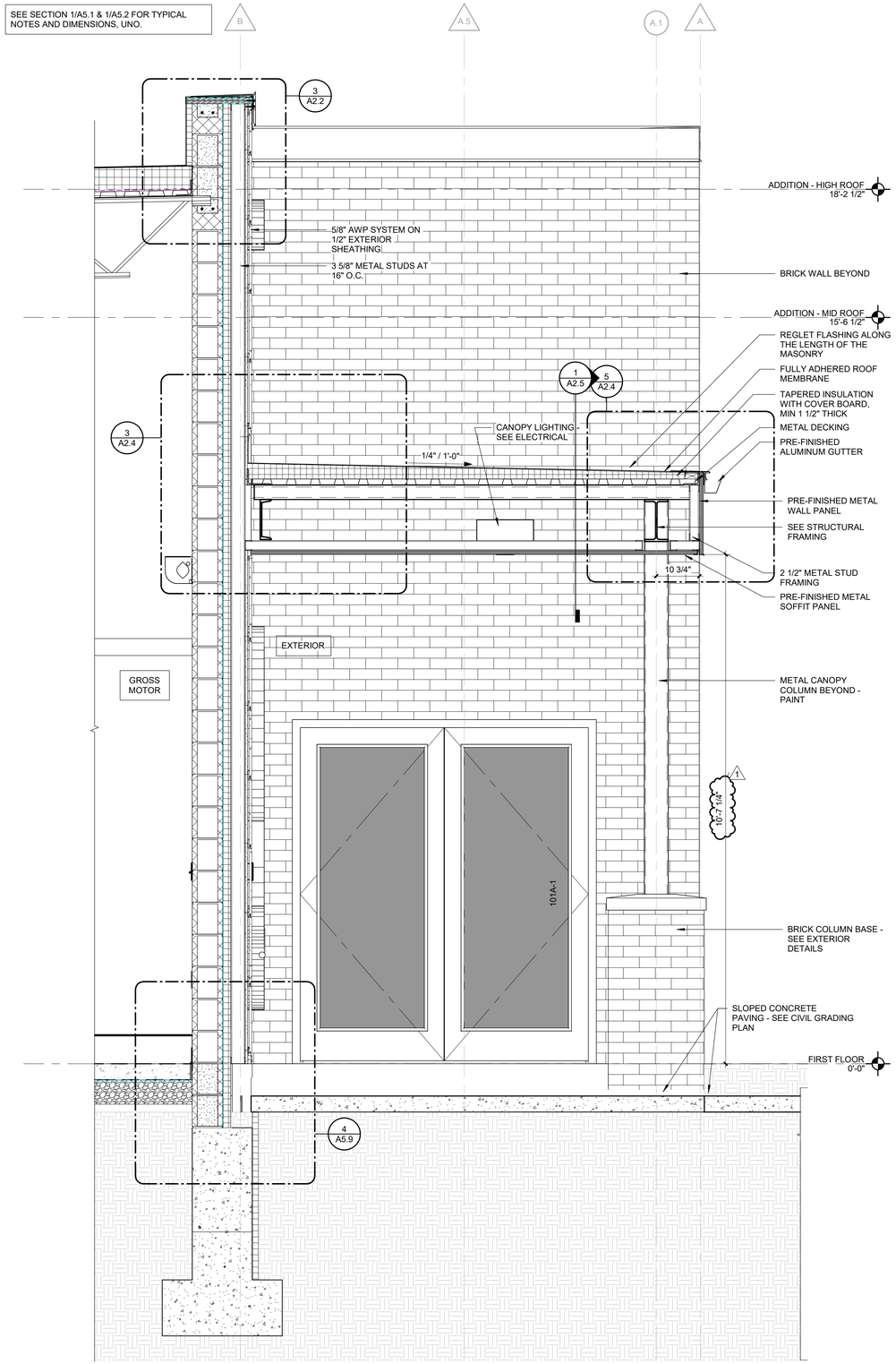
WALL SECTIONS - AREA A

SHEET NUMBER:

A5.3

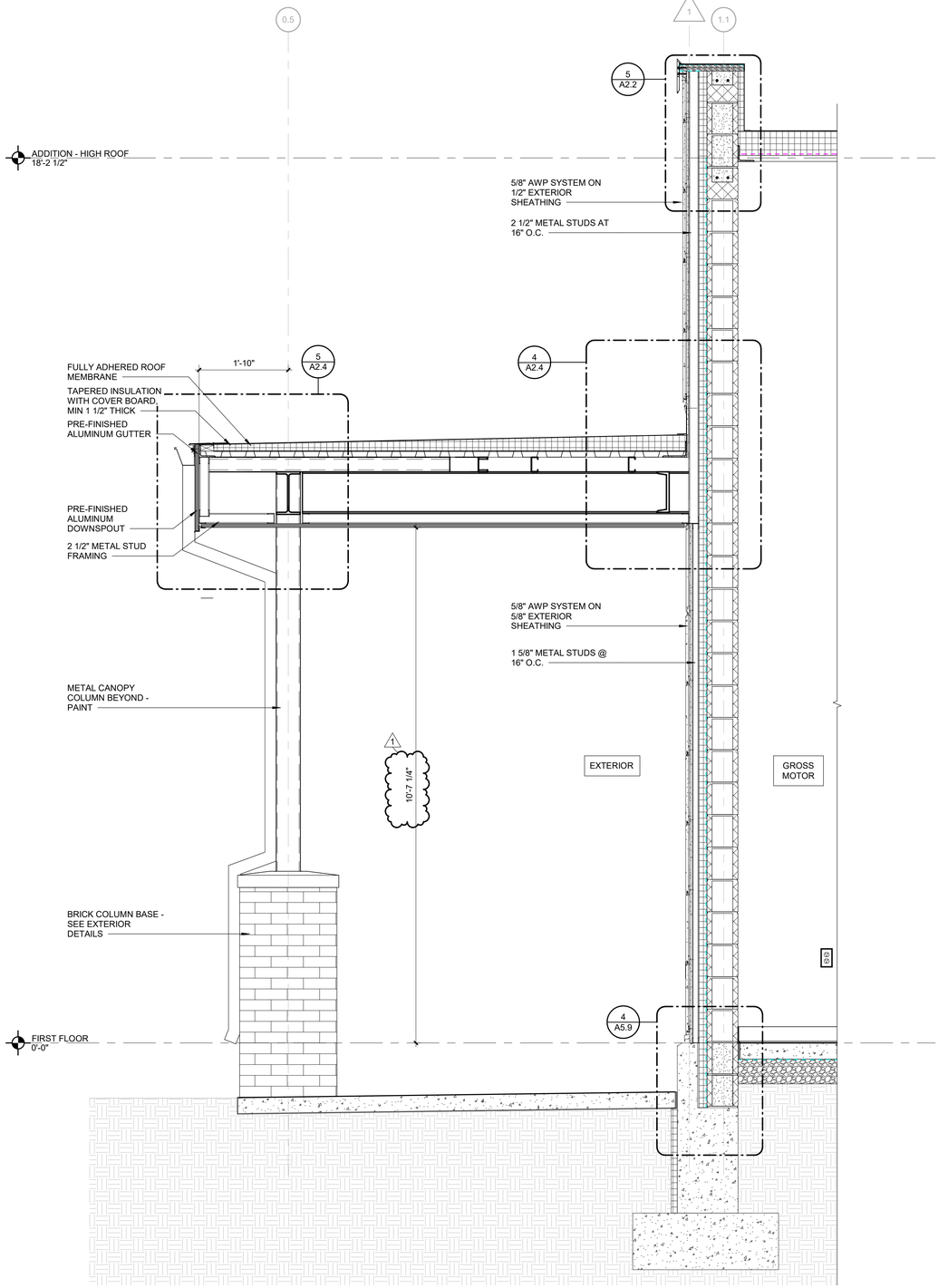
PROJECT NO.: 02401781.001

SEE SECTION 1/A5.1 & 1/A5.2 FOR TYPICAL NOTES AND DIMENSIONS, UNO.



2 **WEST WALL SECTION AT GROSS MOTOR**
SCALE: 3/4" = 1'-0"

SEE SECTION 1/A5.1 & 1/A5.2 FOR TYPICAL NOTES AND DIMENSIONS, UNO.



1 **NORTH WALL SECTION AT GROSS MOTOR**
SCALE: 3/4" = 1'-0"

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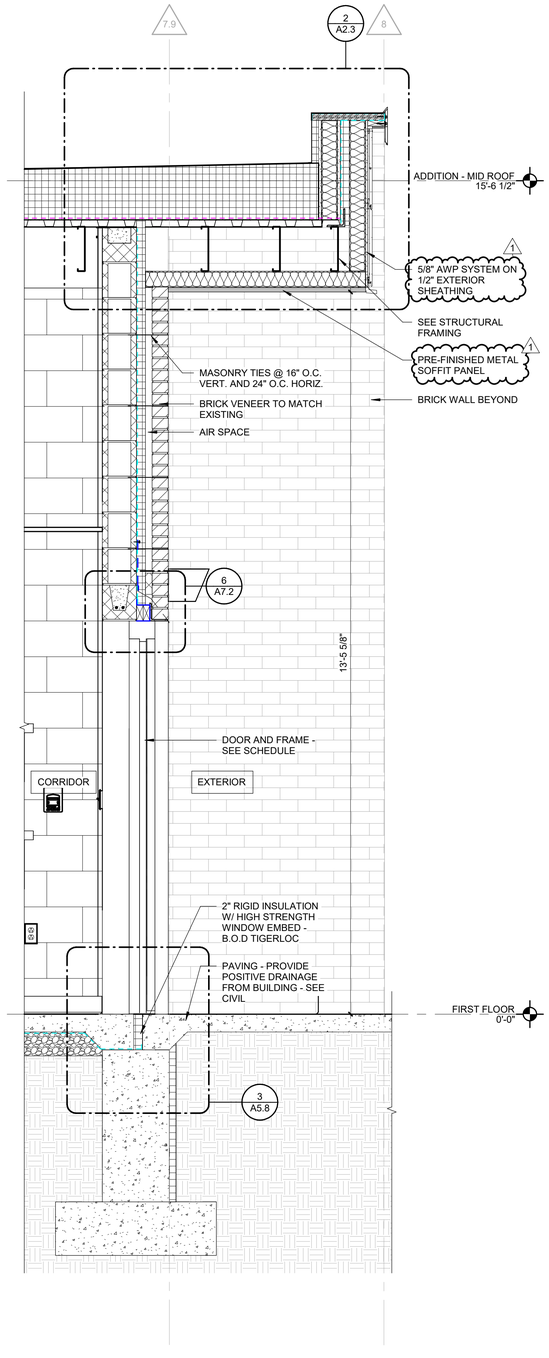
SHEET TITLE:
WALL SECTIONS - AREA A

SHEET NUMBER:
A5.4

PROJECT NO.: 02401781.001

4/18/2025 4:40:13 PM

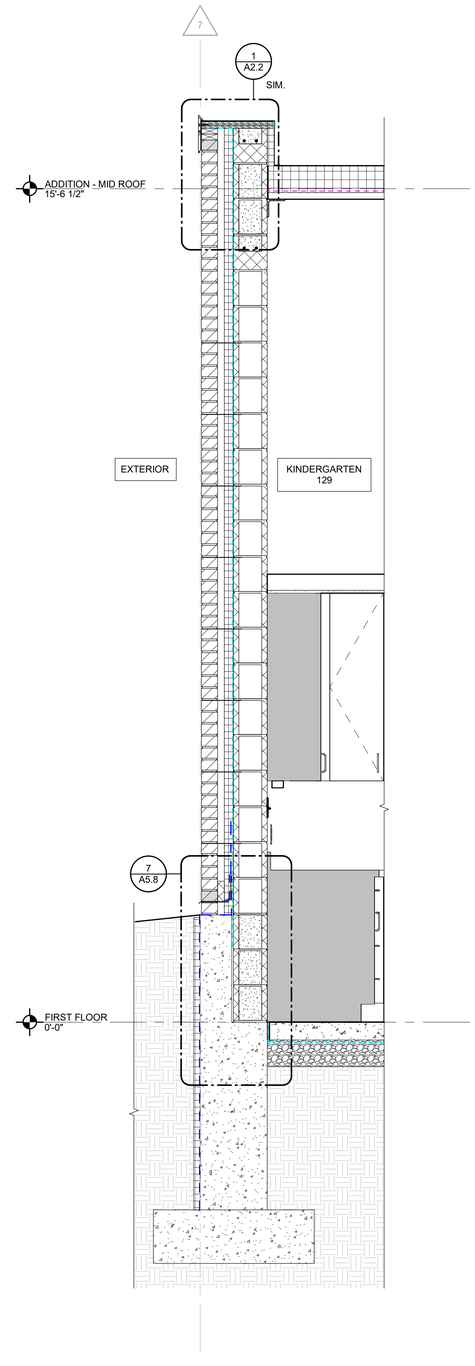
SEE SECTION 1/A5.1 & 1/A5.2 FOR TYPICAL NOTES AND DIMENSIONS, UNO.



SOUTH WALL SECTION AT CORRDIOR C101

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

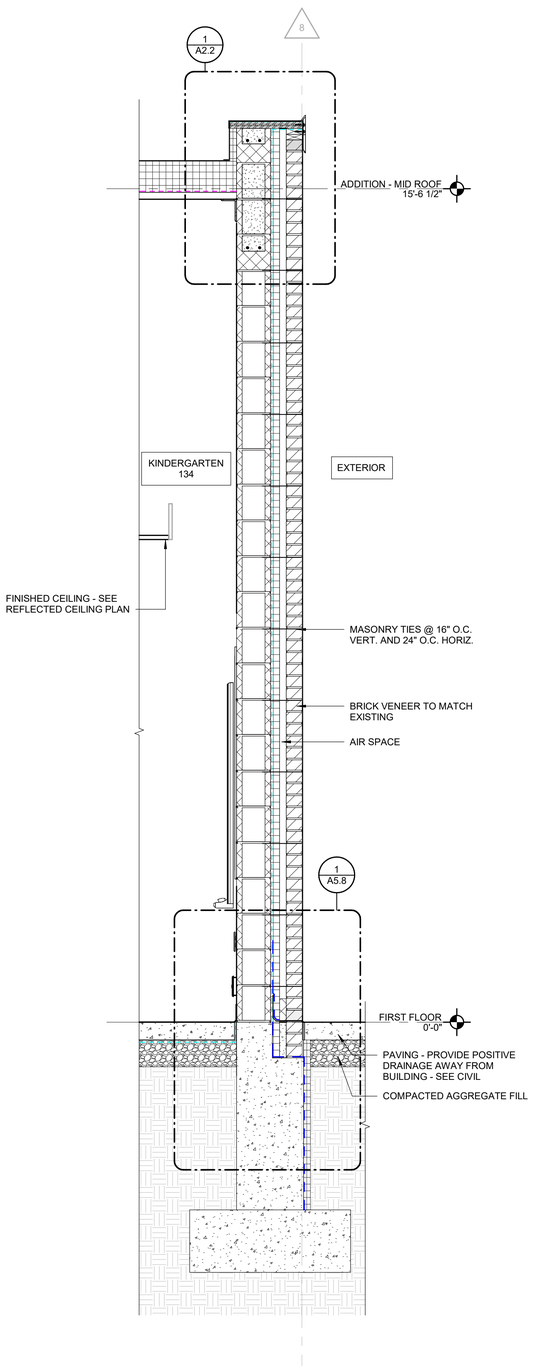
SEE SECTION 1/A5.1 & 1/A5.2 FOR TYPICAL NOTES AND DIMENSIONS, UNO.



NORTH WALL SECTION AT KINDERGARTEN 129

2 SCALE: 3/4" = 1'-0"

SEE SECTION 1/A5.1 & 1/A5.2 FOR TYPICAL NOTES AND DIMENSIONS, UNO.



SOUTH WALL SECTION AT KINDERGARTEN

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

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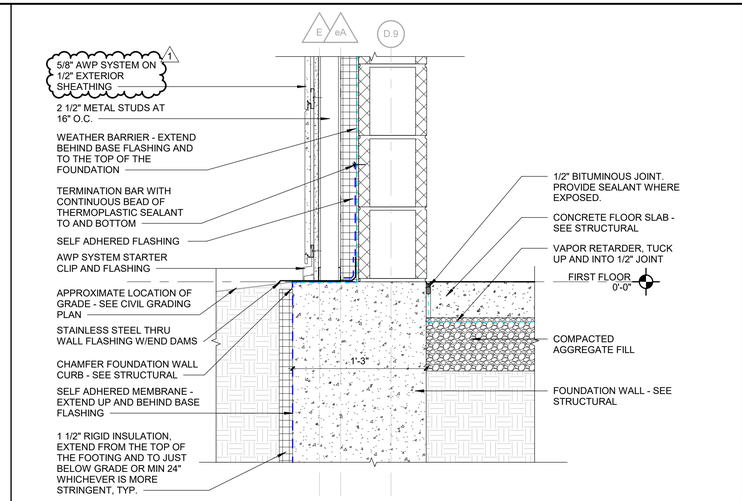
WALL SECTIONS - AREA C

SHEET NUMBER:

A5.7

PROJECT NO.: 02401781.001

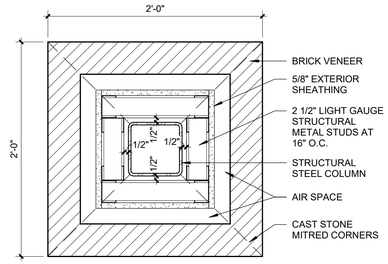
4/18/2025 4:40:18 PM



6 GROSS MOTOR AWP DETAIL AT GRADE

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

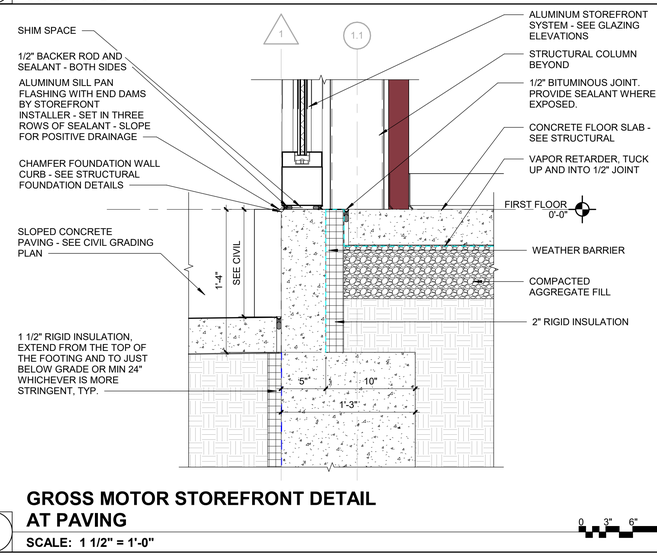
0 3" 6" 12"



3 TYP CANOPY COLUMN DETAIL

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

0 3" 6" 12"



5 GROSS MOTOR STOREFRONT DETAIL AT PAVING

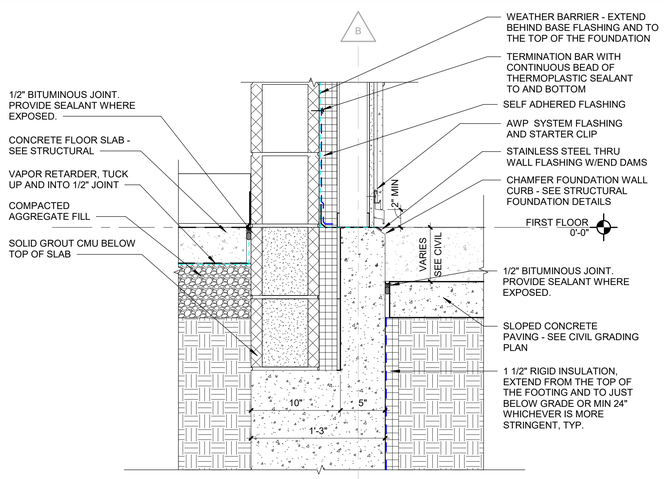
SCALE: 1 1/2" = 1'-0"

0 3" 6" 12"

2 COLUMN PEDESTAL DETAIL

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

0 3" 6" 12"



4 GROSS MOTOR AWP DETAIL AT PAVING

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

0 3" 6" 12"

1 GROSS MOTOR STOREFRONT DETAIL AT GRADE

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

0 3" 6" 12"

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SHEET TITLE:

EXTERIOR DETAILS

SHEET NUMBER:

A5.9

PROJECT NO.: 02401781.001

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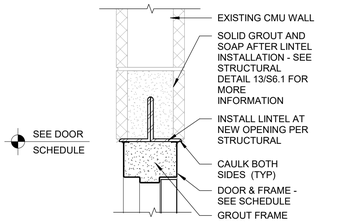
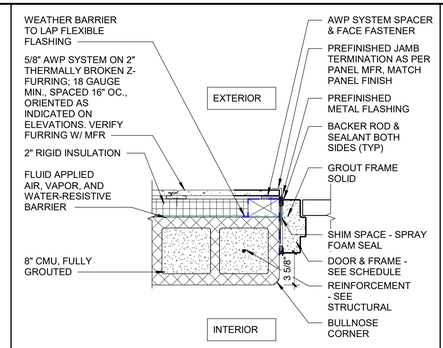


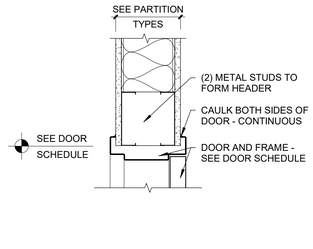
12 HEAD DETAIL @ CMU

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



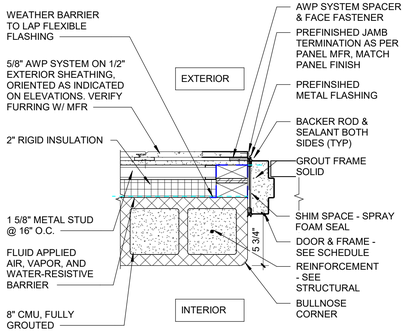
8 TYP HM DOOR JAMB AT AWP

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



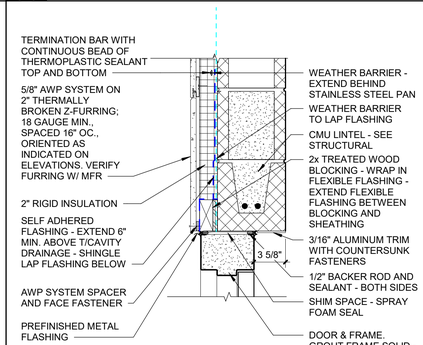
4 HEAD DETAIL @ METAL STUD

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



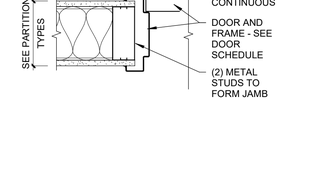
11 HM DOOR JAMB AT AWP - 1 5/8" STUD

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



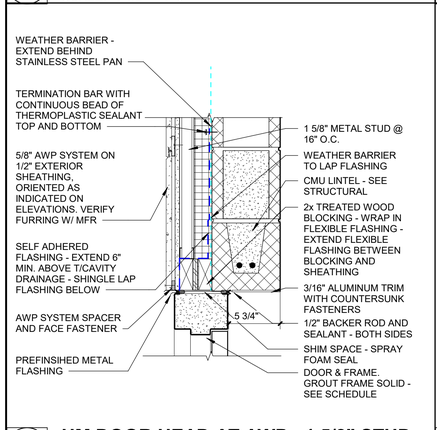
7 TYP HM DOOR HEAD AT AWP

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



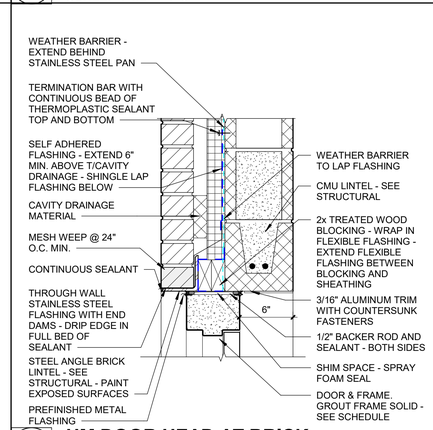
3 JAMB DETAIL @ METAL STUD

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



10 HM DOOR HEAD AT AWP - 1 5/8" STUD

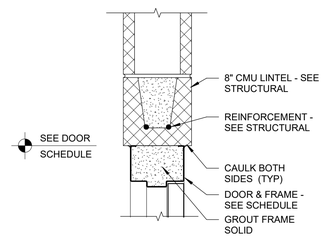
SCALE: 1 1/2" = 1'-0"



6 HM DOOR HEAD AT BRICK

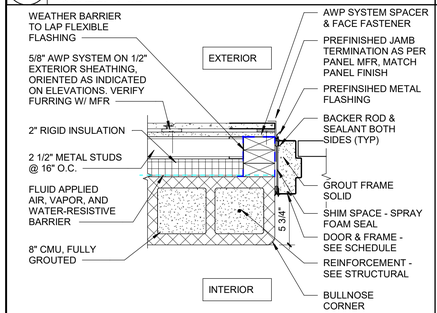
SCALE: 1 1/2" = 1'-0"

NOTE:
ENSURE CMU WALL AT DOOR C-X106-1 IS 2 HR FIRE RATED WALL.



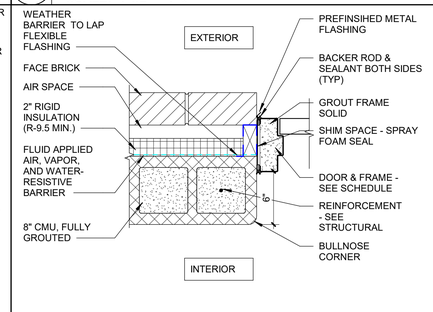
2 HEAD DETAIL @ CMU

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



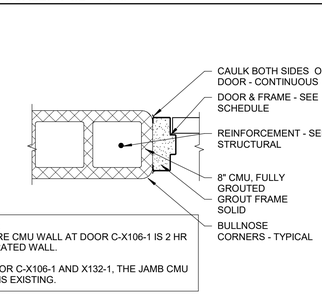
9 HM DOOR JAMB AT AWP - 2 1/2" STUD

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



5 HM DOOR JAMB AT BRICK

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



NOTE:
ENSURE CMU WALL AT DOOR C-X106-1 IS 2 HR FIRE RATED WALL.

AT DOOR C-X106-1 AND X132-1, THE JAMB CMU WALL IS EXISTING.

1 JAMB DETAIL @ CMU

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

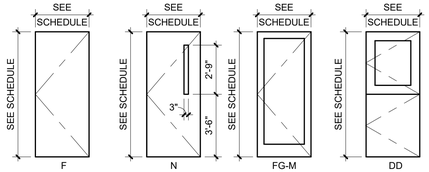
DOOR SCHEDULE

	DOOR						DOOR FRAME								
NO.	WIDTH	HEIGHT	THICK	MAT'L	FINISH	ELEV	MAT'L	FINISH	ELEV	HEAD DETAIL NO.	JAMB DETAIL NO.	THRESH DETAIL NO.	LBL (MINUTES)	HDWR SET	NOTES
101-1	6' - 0"	7' - 0"	1 3/4"	AL	PF	FG-M	AL	PF	2	10/A7.2	9/A7.2 & 11/A7.2	3/A5.8		1	
101A-1	6' - 0"	7' - 0"	1 3/4"	AL	PF	FG-M	AL	PF	2	6/A7.2	5/A7.2	3/A5.8		1	
101A-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	FG-M	HM	PNT	1	4/A7.2	3/A7.2	-		13	
101C-1	6' - 0"	7' - 0"	1 3/4"	WD	PF	F	HM	PNT	2	2/A7.2	1/A7.2	-		6	
102-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		16	
102-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	7/A7.2	5/A7.2 & 8/A7.2	3/A5.8		5	
103-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		16	
103-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	7/A7.2	5/A7.2 & 8/A7.2	3/A5.8		5	
104-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		16	
104-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	7/A7.2	5/A7.2 & 8/A7.2	3/A5.8		5	
105-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		16	
105-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	7/A7.2	5/A7.2 & 8/A7.2	3/A5.8		5	
106-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		16	
106-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	7/A7.2	5/A7.2 & 8/A7.2	3/A5.8		5	
107-1	6' - 0"	7' - 0"	1 3/4"	WD	PNT	F	HM	PNT	2	2/A7.2	1/A7.2	-		6	1 1
107-2	6' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	6/A7.2	5/A7.2	3/A5.8		4	
108-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		16	
108-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	7/A7.2	5/A7.2 & 8/A7.2	3/A5.8		5	
109-1	6' - 0"	7' - 0"	1 3/4"	WD	PF	F	HM	PNT	2	2/A7.2	1/A7.2	-		6	
110-1	6' - 0"	7' - 0"	1 3/4"	WD	PF	F	HM	PNT	2	2/A7.2	1/A7.2	-		6	
112-1	3' - 0"	7' - 0"	1 3/4"	WD	PNT	F	HM	PNT	1	4/A7.2	3/A7.2	-		10	1
112-2	3' - 0"	7' - 0"	1 3/4"	WD	PNT	F	HM	PNT	1	4/A7.2	3/A7.2	-		10	1
114-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	F	HM	PNT	1	4/A7.2	3/A7.2	-		17	
115-1	6' - 0"	7' - 0"	1 3/4"	HM	PNT	FG-M	HM	PNT	2	2/A7.2	1/A7.2	-		7	
116-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		12	
119-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	F	HM	PNT	2	2/A7.2	1/A7.2	-		11	
122-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	F	HM	PNT	1	4/A7.2	3/A7.2	-		15	
123-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	F	HM	PNT	2	2/A7.2	1/A7.2	-		10	
124-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		14	
124-2	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		14	
125-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		11	
125-2	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	2	2/A7.2	1/A7.2	-		11	
126-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		12	
127-1	6' - 0"	7' - 0"	1 3/4"	WD	PF	F	HM	PNT	1	4/A7.2	3/A7.2	-		6	
128-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		12	
129-1	6' - 0"	7' - 0"	1 3/4"	AL	PF	FG-M	AL	PF	2	7/A7.2	8/A7.2	3/A5.8		1	
129-2	6' - 0"	7' - 0"	1 3/4"	HM	PNT	FG-M	HM	PNT	2	2/A7.2	1/A7.2	-		8	
130-1	6' - 0"	7' - 0"	1 3/4"	WD	PF	F	HM	PNT	2	2/A7.2	1/A7.2	-		6	
131-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		16	
131-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	7/A7.2	5/A7.2 & 8/A7.2	3/A5.8		5	
132-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		16	
132-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	7/A7.2	5/A7.2 & 8/A7.2	3/A5.8		5	
133-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		16	
133-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	7/A7.2	5/A7.2 & 8/A7.2	3/A5.8		5	
134-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		16	
134-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	7/A7.2	5/A7.2 & 8/A7.2	3/A5.8		5	
135-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		16	
135-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	7/A7.2	5/A7.2 & 8/A7.2	3/A5.8		5	
136-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		16	
136-2	3' - 0"	7' - 0"	1 3/4"	HM	PNT	F	HM	PNT	2	7/A7.2	5/A7.2 & 8/A7.2	3/A5.8		5	
C101-2	6' - 0"	7' - 0"	1 3/4"	AL	PF	FG-M	AL	PF	2	6/A7.2	5/A7.2	3/A5.8		1	
C102-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		10	
C102-2	3' - 0"	7' - 0"	1 3/4"	WD	PF	N	HM	PNT	1	4/A7.2	3/A7.2	-		10	
C-X106-1	6' - 0"	7' - 0"	1 3/4"	HM	PNT	N	HM	PNT	2	2/A7.2	1/A7.2 SIM.	-	90 MIN	9	
T102-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	DD	HM	PNT	1	4/A7.2	3/A7.2	-		18	1
T103-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	DD	HM	PNT	1	4/A7.2	3/A7.2	-		18	1
T104-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	DD	HM	PNT	1	4/A7.2	3/A7.2	-		18	1
T105-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	DD	HM	PNT	1	4/A7.2	3/A7.2	-		18	1
T106-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	DD	HM	PNT	1	4/A7.2	3/A7.2	-		18	1
T108-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	DD	HM	PNT	1	4/A7.2	3/A7.2	-		18	1
T117-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	F	HM	PNT	1	4/A7.2	3/A7.2	-		17	1
T118-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	F	HM	PNT	1	4/A7.2	3/A7.2	-		17	1
T131-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	DD	HM	PNT	1	4/A7.2	3/A7.2	-		18	1
T132-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	DD	HM	PNT	1	4/A7.2	3/A7.2	-		18	1
T133-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	DD	HM	PNT	1	4/A7.2	3/A7.2	-		18	1
T134-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	DD	HM	PNT	1	4/A7.2	3/A7.2	-		18	1
T135-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	DD	HM	PNT	1	4/A7.2	3/A7.2	-		18	1
T136-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	DD	HM	PNT	1	4/A7.2	3/A7.2	-		18	1
X101-3	6' - 0"	7' - 0"	1 3/4"	AL	PF	FG-M	AL	PF	1	9/A7.4	10/A7.4	-		19	
X101-3X	6' - 0"	7' - 0"	1 3/4"	EXT	EXT	F	EXT	EXT	-	EXT	EXT	-	-	2	
X101-4	6' - 0"	7' - 0"	1 3/4"	AL	PF	FG-M	AL	PF	1	9/A7.4	10/A7.4	-		20	
X101-4X	6' - 0"	7' - 0"	1 3/4"	EXT	EXT	F	EXT	EXT	-	EXT	EXT	-	-	3	
X132-1	3' - 0"	7' - 0"	1 3/4"	WD	PF	F	HM	PNT	2	12/A7.2	3/A7.2	-	-	11	

AL=	ALUMINUM	IHM=	INSULATED HOLLOW METAL
ALCW=	ALUMINUM CLAD WOOD	OHD=	OVERHEAD DOOR
EXT=	EXISTING	PF=	PREFINISHED
FRP=	FIBER REINFORCED PLASTIC	PNT=	PAINT
HM=	HOLLOW METAL		

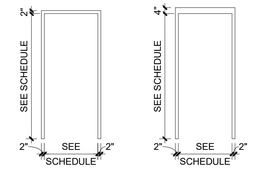
NOTES:
1. 1" DOOR UNDERCUT IN THE RESTROOMS, JANITOR ROOMS, AND MECHANICAL ROOM. 1

DOOR ELEVATIONS



NOTES:
1. PROVIDE FIRE-RATED GLASS AT FIRE RATED CONDITIONS
2. ALL EXTERIOR GLASS SHALL BE INSULATED
3. ALL GLASS MUST BE TEMPERED. EXTERIOR IG-1 AND INTERIOR G-1.

FRAME ELEVATIONS



NOTES:
1. PROVIDE FIRE-RATED GLASS AT FIRE RATED CONDITIONS
2. ALL EXTERIOR GLASS SHALL BE INSULATED
3. ALL GLASS MUST BE TEMPERED

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ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
04/03/2025

PROJECT:

Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	APH
DRAWN:	TMM
REVIEWED:	APH/SCB/JB

SHEET TITLE:

DOOR SCHEDULE, ELEVATIONS AND DETAILS

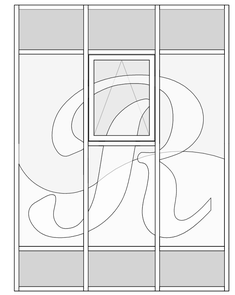
SHEET NUMBER:

A7.2

PROJECT NO.: 02401781.001

4/18/2025 4:40:31 PM

NOTE: ELEVATIONS SHOWN ARE TO GIVE GENERAL DESIGN INTENT ONLY. FINAL DESIGN, INCLUDING COLORS AND LOGOS, ARE TO BE CONFIRMED BY OWNER AND ARCHITECT.



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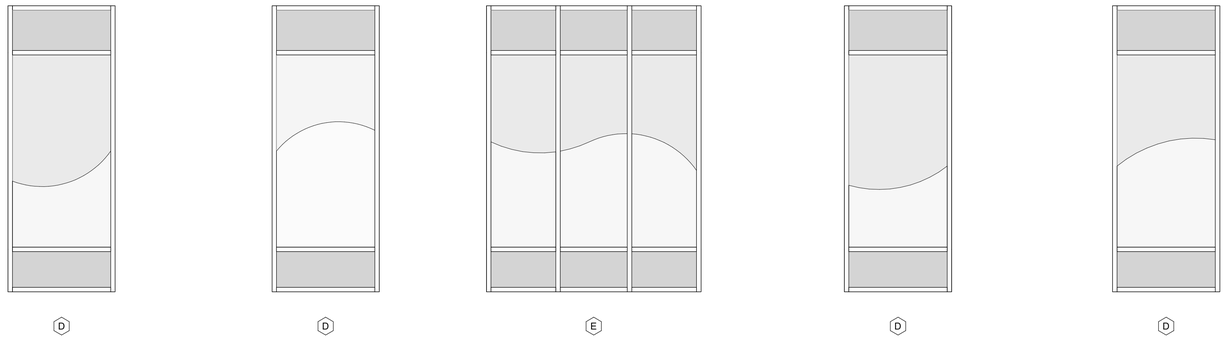
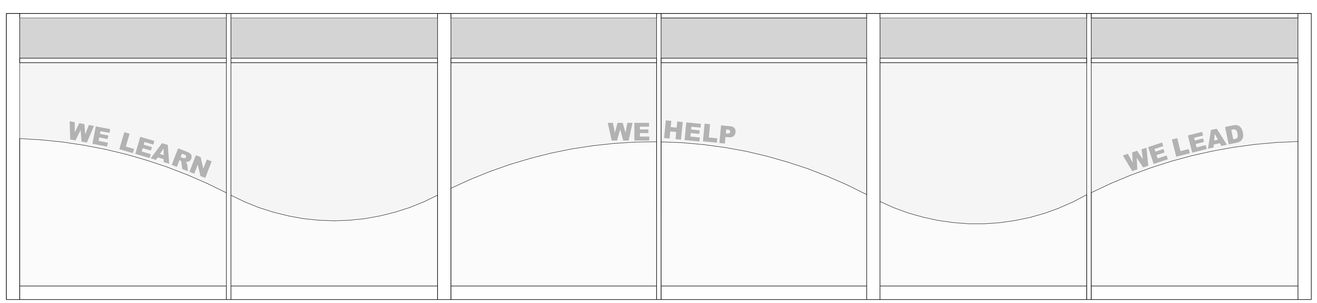


D D E D D

WEST ELEVATION - AREA B GRAPHICS



B

1 **GLAZING ELEVATIONS - WINDOW FILM GRAPHICS**

SCALE: 3/8" = 1'-0"

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SHEET TITLE:
GLAZING ELEVATIONS - WINDOW GRAPHICS

SHEET NUMBER:
A7.3.1

PROJECT NO.: 02401781.001

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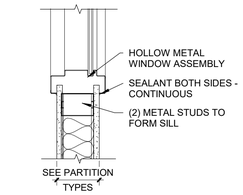
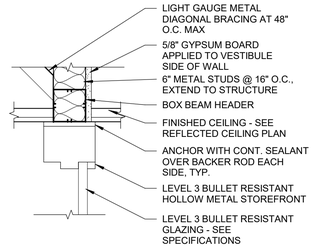


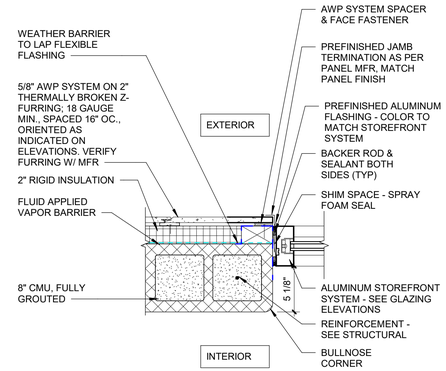
12 HM WINDOW SILL DETAIL

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



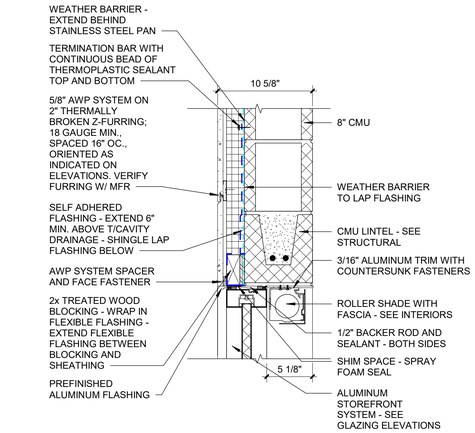
9 SECURE VESTIBULE STOREFRONT HEAD DETAIL

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



6 TYP STOREFRONT JAMB AT AWP

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



3 TYP STOREFRONT HEAD DETAIL AT AWP

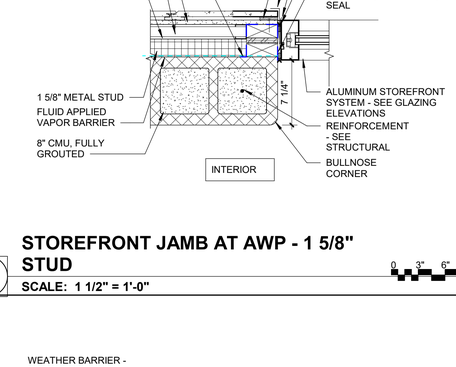
SCALE: 1 1/2" = 1'-0"

11 SECURE VESTIBULE WINDOW DETAILS

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

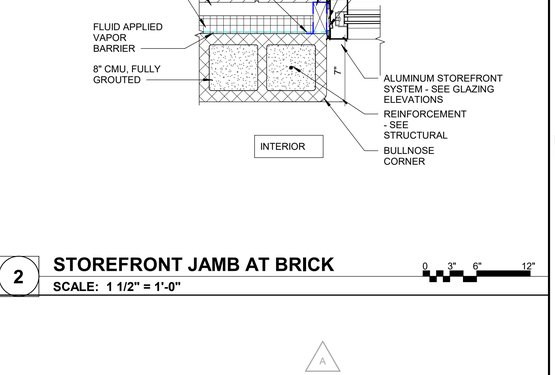
8 STOREFRONT HEAD DETAIL AT CORRIDOR C101

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



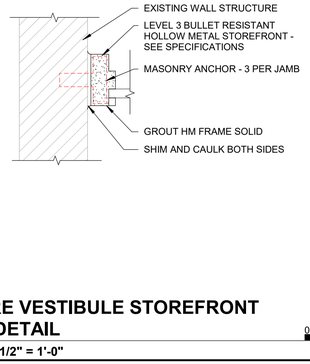
5 STOREFRONT JAMB AT AWP - 1 5/8" STUD

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



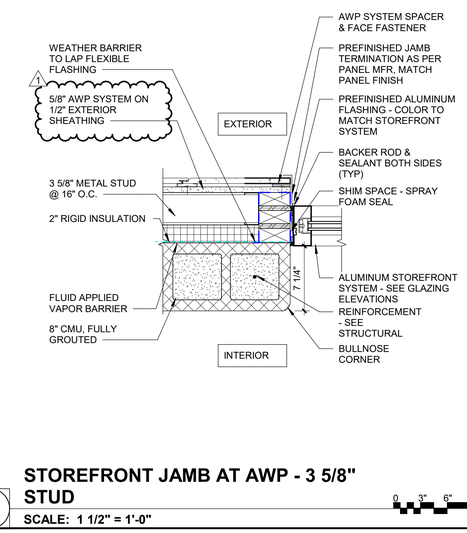
2 STOREFRONT JAMB AT BRICK

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



10 SECURE VESTIBULE STOREFRONT JAMB DETAIL

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



7 STOREFRONT JAMB AT AWP - 3 5/8" STUD

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

4 STOREFRONT HEAD DETAIL AT AWP - 2 1/2" STUD

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

1 STOREFRONT HEAD DETAL AT BRICK

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

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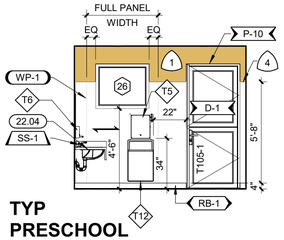
GLAZING DETAILS

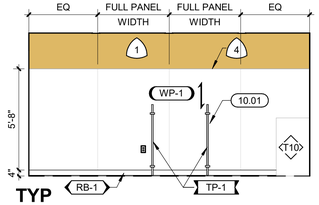
SHEET NUMBER:
A7.4

PROJECT NO.: 02401781.001



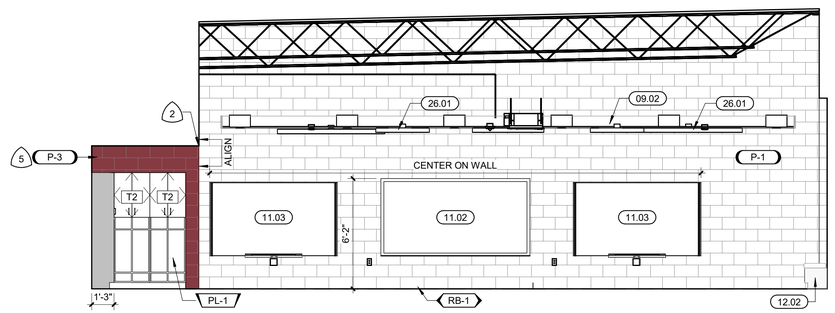
TYP PRESCHOOL TOILET ELEVATION

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



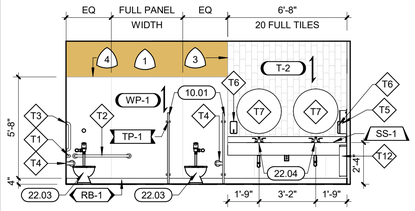
TYP PRESCHOOL TOILET ELEVATION

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



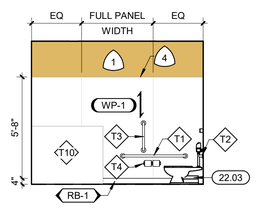
TYP PRESCHOOL ELEVATION

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



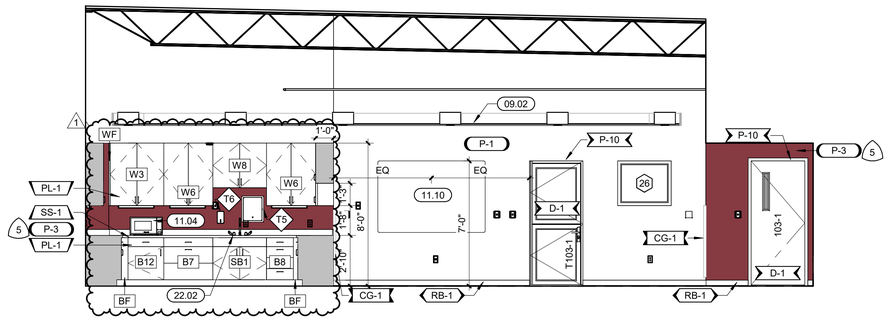
TYP PRESCHOOL TOILET ELEVATION

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



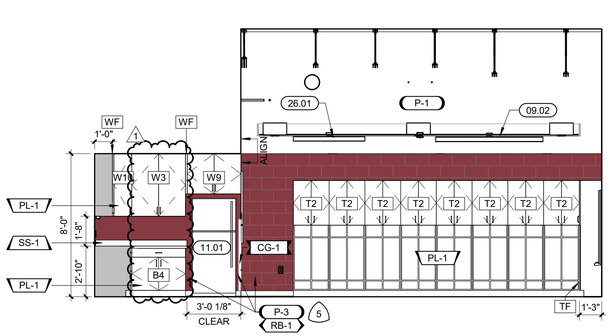
TYP PRESCHOOL TOILET ELEVATION

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



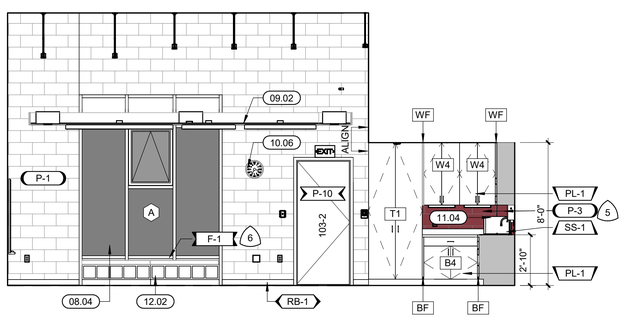
TYP PRESCHOOL ELEVATION

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



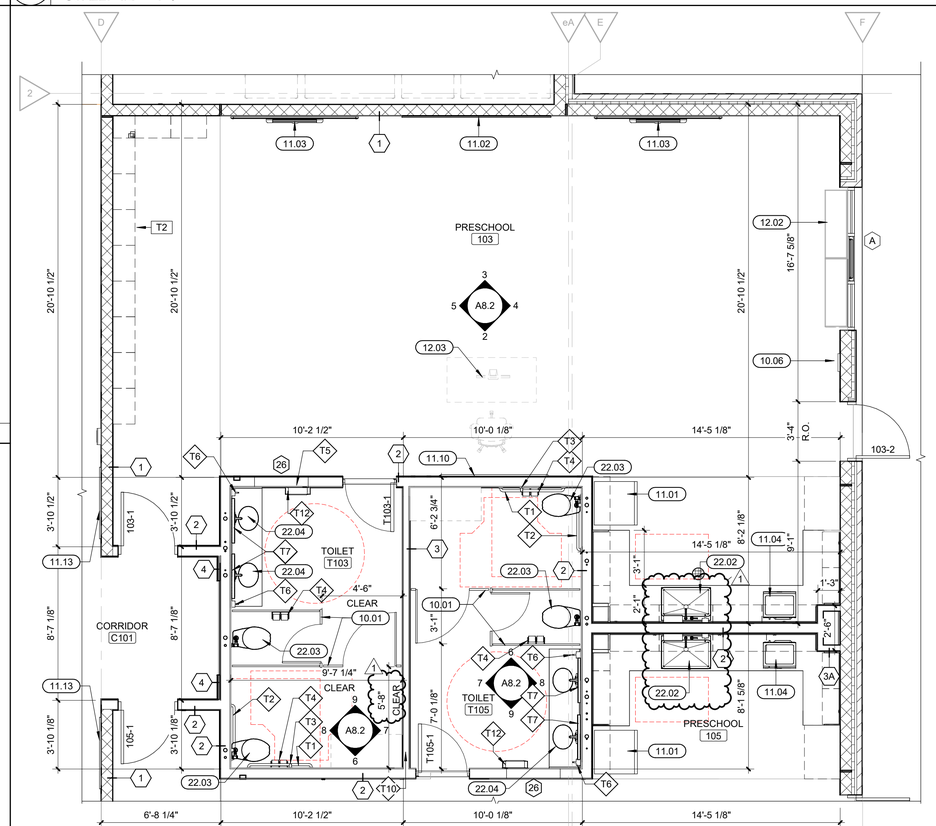
TYP PRESCHOOL ELEVATION

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



TYP PRESCHOOL ELEVATION

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



ENLARGED FLOOR PLAN - TYPICAL PRESCHOOL

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

PLAN NORTH

4/18/2025 4:40:45 PM

INTERIOR ELEVATION GENERAL NOTES

A. SEE G0.1 FOR STANDARD MOUNTING HEIGHTS.

B. CONTROL JOINTS SHOWN ARE DESIGNATED FOR AESTHETIC PURPOSES. WHERE CONTROL JOINTS ARE NOT SHOWN, COMPLY WITH REQUIREMENTS AS DICTATED IN THE PARTITION GENERAL NOTES.

C. ALL DIMENSIONS IN THE INTERIOR ELEVATIONS ARE FROM AFF.

D. PROVIDE WALL BLOCKING TO INCLUDE BUT NOT LIMITED TO MOUNTING ANY HEAVY EQUIPMENTS, TOILET, AND OTHER ACCESSORIES.

KEYNOTES (BY DIVISION) #.#

DIVISION 08: OPENINGS	
08.04	**SAFETY FILMS ON ALL WINDOWS. COORDINATE WITH OWNER FOR IMAGE SELECTION.**
DIVISION 09: FINISHES	
09.02	**2x2 ACT CLOUD WITH AXIOM TRIM. SEE CEILING DETAILS**
DIVISION 10: SPECIALTIES	
10.01	**CHILD'S TOILET PARTITIONS (CFCI)**
10.06	**HARDWIRED DIGITAL CLOCK (OFCI) - SEE ELECTRICAL**
DIVISION 11: EQUIPMENT	
11.01	**TOP FREEZER REFRIGERATOR (OFCI)**
11.02	**WHITEBOARD (OFCI)**
11.03	**SMARTBOARD (OFCI) - POSSIBLE LOCATION**
11.04	**MICROWAVE (OFCI)**
11.10	**48"x72" WALL MOUNTED TACKBOARD (OFCI)**
11.13	**48"x48" WALL MOUNTED TACKBOARD (OFCI)**
DIVISION 12: FURNITURE	
12.02	**BELOW WINDOW BENCH (OFCI)**
12.03	**TEACHER'S DESK AND CHAIR (VFVI)**
DIVISION 22: PLUMBING	
22.02	**UNDERMOUNT STAINLESS ADA KITCHEN SINK (CFCI)- SEE PLUMBING**
22.03	**CHILD'S TOILET (CFCI)- SEE PLUMBING**
22.04	**CHILD'S SINK INTEGRAL TO COUNTERTOP (CFCI)- SEE PLUMBING. SEE DETAIL 6/A8.0**
DIVISION 26: ELECTRICAL	
26.01	**LIGHT FIXTURES (CFCI) - SEE ELECTRICAL**

CASEWORK SCHEDULE

NO.	WIDTH	HEIGHT	DEPTH	DETAIL NO.	DESCRIPTION
BASE CABINETS					
B1	2' - 9"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B2	3' - 0"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B3	2' - 6"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B4	3' - 0"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B5	2' - 0"	2' - 8 1/2"	1' - 9"	2/A8.1	ONE 6" DRAWER, TWO LARGE DRAWERS
B6	1' - 3"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B7	2' - 9"	2' - 8 1/2"	2' - 0"	2/A8.1	ONE 6" DRAWER, TWO LARGE DRAWERS
B8	1' - 6"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B9	2' - 0"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B10	1' - 9"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B11	1' - 3"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B12	2' - 0"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE 6" DRAWER, ONE HINGED DOOR, ONE ADJUSTABLE SHELF
B13	2' - 3"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B14	2' - 9"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B15	2' - 6"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
SB1	3' - 0"	2' - 8 1/2"	2' - 0"	4/A8.0	SINK CABINET, TWO HINGED DOORS, 6" FALSE FRONT ABOVE DOORS
SB2	2' - 6"	2' - 8 1/2"	2' - 0"	4/A8.0	SINK CABINET, TWO HINGED DOORS, 6" FALSE FRONT ABOVE DOORS
TALL CABINETS					
T1	3' - 0"	8' - 0"	2' - 0"	5/A8.0	TWO HINGED DOORS, FIVE ADJUSTABLE SHELVES
T2	2' - 0"	6' - 6"	1' - 3"	1/A8.0	TWO HINGED DOORS, CUSTOM CUBBY SPACES
T3	2' - 0"	7' - 3"	1' - 3"	3/A8.0	TWO HINGED DOORS, CUSTOM CUBBY SPACES
WALL CABINETS					
W1	2' - 6"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W2	1' - 6"	3' - 6"	1' - 0"	4/A8.1	ONE HINGED DOOR, TWO ADJUSTABLE SHELVES
W3	3' - 0"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W4	2' - 0"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W6	2' - 9"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W7	2' - 6"	2' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W8	3' - 0"	2' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W9	3' - 0"	2' - 3"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W10	1' - 0"	3' - 6"	1' - 0"	4/A8.1	ONE HINGED DOOR, TWO ADJUSTABLE SHELVES
W11	2' - 3"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES

BF: BASE FILLER TF: TALL BASE FILLER WF: WALL FILLER

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	REMARKS
T1	GRAB BAR (42")	CFCI
T2	GRAB BAR (36")	CFCI
T3	GRAB BAR (18")	CFCI
T4	DUAL ROLL TOILET TISSUE	OFCI
T5	SEMI-RECESSED MANUAL PAPER TOWEL DISPENSER	OFCI
T6	SOAP DISPENSER	OFCI
T7	30" DIA, FRAMELESS LIT MIRROR, SEE ELECTRICAL	CFCI
T8	24" X 33" FRAMED MIRROR	CFCI
T9	SANITARY NAPKIN DISPOSAL	CFCI
T11	WALL MOUNTED DIAPER CHANGING STATION	CFCI
T12	SEMI-RECESSED WASTE RECEPTACLE	CFCI
T13	UNDERLAVATORY GUARD	CFCI
T14	SHOWER CURTAIN	CFCI
T15	SHOWER ROD	CFCI
T16	ADA SHOWER SEAT	CFCI
T17	SHOWER GRAB BAR	CFCI

Farnsworth GROUP
2211 W. BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com
www.f-w.com
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ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
04/03/2025

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

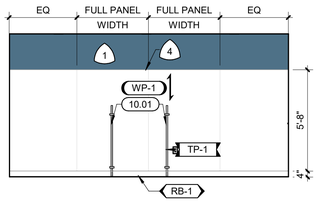
507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	APH
DRAWN:	TMM
REVIEWED:	APH/SCB/JB

SHEET TITLE:
PRESCHOOL INTERIOR ELEVATIONS AND ENLARGED PLANS

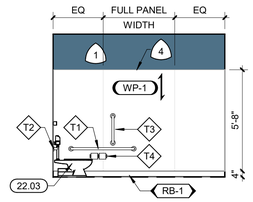
SHEET NUMBER:
A8.2

PROJECT NO.: 02401781.001



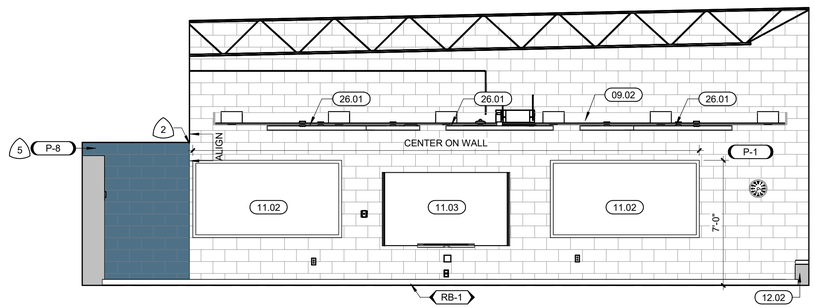
TYP KINDERGARTEN TOILET ELEVATION

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



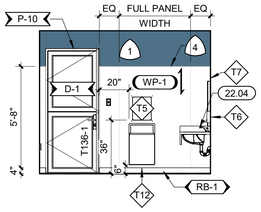
TYP KINDERGARTEN TOILET ELEVATION

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



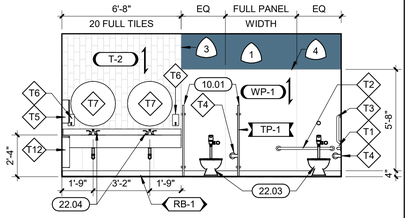
TYP KINDERGARTEN ELEVATION

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



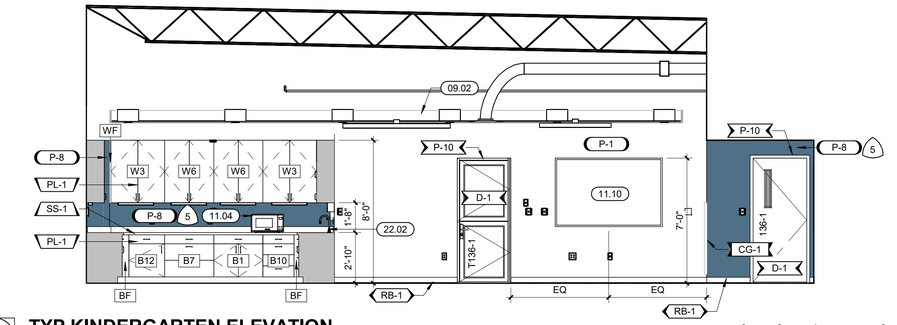
TYP KINDERGARTEN TOILET ELEVATION

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



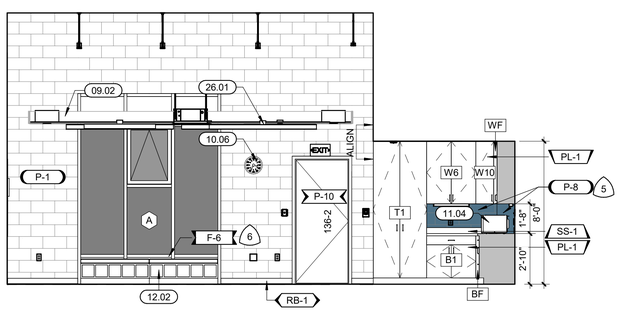
TYP KINDERGARTEN TOILET ELEVATION

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



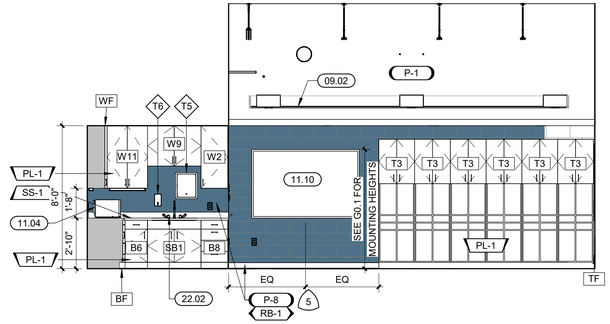
TYP KINDERGARTEN ELEVATION

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



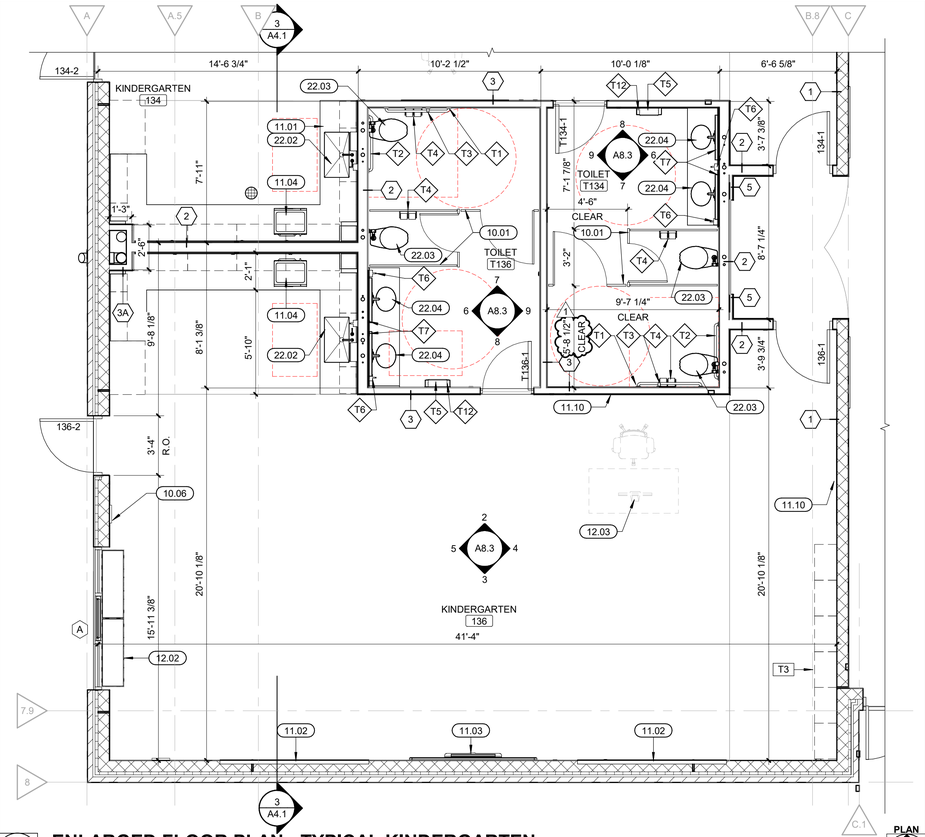
TYP KINDERGARTEN ELEVATION

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



TYP KINDERGARTEN ELEVATION

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



ENLARGED FLOOR PLAN - TYPICAL KINDERGARTEN

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

INTERIOR ELEVATION GENERAL NOTES

A. SEE G0.1 FOR STANDARD MOUNTING HEIGHTS.

B. CONTROL JOINTS SHOWN ARE DESIGNATED FOR AESTHETIC PURPOSES. WHERE CONTROL JOINTS ARE NOT SHOWN, COMPLY WITH REQUIREMENTS AS DICTATED IN THE PARTITION GENERAL NOTES.

C. ALL DIMENSIONS IN THE INTERIOR ELEVATIONS ARE FROM AFF.

D. PROVIDE WALL BLOCKING TO INCLUDE BUT NOT LIMITED TO MOUNTING ANY HEAVY EQUIPMENTS, TOILET, AND OTHER ACCESSORIES.

KEYNOTES (BY DIVISION)

DIVISION 09: FINISHES	
09.02	**2x2 ACT CLOUD WITH AXIOM TRIM. SEE CEILING DETAILS**
DIVISION 10: SPECIALTIES	
10.01	**CHILD'S TOILET PARTITIONS (CFCI)**
10.06	**HARDWIRED DIGITAL CLOCK (OFCI) - SEE ELECTRICAL**
DIVISION 11: EQUIPMENT	
11.01	**TOP FREEZER REFRIGERATOR (OFCI)**
11.02	**WHITEBOARD (OFCI)**
11.03	**SMARTBOARD (OFCI) - POSSIBLE LOCATION**
11.04	**MICROWAVE (OFCI)**
11.10	**48"x72" WALL MOUNTED TACKBOARD (OFCI)**
DIVISION 12: FURNITURE	
12.02	**BELOW WINDOW BENCH (OFCI)**
12.03	**TEACHER'S DESK AND CHAIR (VFCI)**
DIVISION 22: PLUMBING	
22.02	**UNDERMOUNT STAINLESS ADA KITCHEN SINK (CFCI)- SEE PLUMBING**
22.03	**CHILD'S TOILET (CFCI)- SEE PLUMBING**
22.04	**CHILD'S SINK INTEGRAL TO COUNTERTOP (CFCI)- SEE PLUMBING. SEE DETAIL 6/A8.0**
DIVISION 26: ELECTRICAL	
26.01	**LIGHT FIXTURES (CFCI) - SEE ELECTRICAL**

CASEWORK SCHEDULE

NO.	WIDTH	HEIGHT	DEPTH	DETAIL NO.	DESCRIPTION
BASE CABINETS					
B1	2' - 9"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B2	3' - 0"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B3	2' - 6"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B4	3' - 0"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B5	2' - 0"	2' - 8 1/2"	1' - 9"	2/A8.1	ONE 6" DRAWER, TWO LARGE DRAWERS
B6	1' - 3"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B7	2' - 9"	2' - 8 1/2"	2' - 0"	2/A8.1	ONE 6" DRAWER, TWO LARGE DRAWERS
B8	1' - 6"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B9	2' - 0"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B10	1' - 9"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B11	1' - 3"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B12	2' - 0"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE 6" DRAWER, ONE HINGED DOOR, ONE ADJUSTABLE SHELF
B13	2' - 3"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B14	2' - 9"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B15	2' - 6"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
SB1	3' - 0"	2' - 8 1/2"	2' - 0"	4/A8.0	SINK CABINET, TWO HINGED DOORS, 6" FALSE FRONT ABOVE DOORS
SB2	2' - 6"	2' - 8 1/2"	2' - 0"	4/A8.0	SINK CABINET, TWO HINGED DOORS, 6" FALSE FRONT ABOVE DOORS
TALL CABINETS					
T1	3' - 0"	8' - 0"	2' - 0"	5/A8.0	TWO HINGED DOORS, FIVE ADJUSTABLE SHELVES
T2	2' - 0"	6' - 6"	1' - 3"	1/A8.0	TWO HINGED DOORS, CUSTOM CUBBY SPACES
T3	2' - 0"	7' - 3"	1' - 3"	3/A8.0	TWO HINGED DOORS, CUSTOM CUBBY SPACES
WALL CABINETS					
W1	2' - 6"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W2	1' - 6"	3' - 6"	1' - 0"	4/A8.1	ONE HINGED DOOR, TWO ADJUSTABLE SHELVES
W3	3' - 0"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W4	2' - 0"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W6	2' - 9"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W7	2' - 6"	2' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W8	3' - 0"	2' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W9	3' - 0"	2' - 3"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W10	1' - 0"	3' - 6"	1' - 0"	4/A8.1	ONE HINGED DOOR, TWO ADJUSTABLE SHELVES
W11	2' - 3"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES

BF: BASE FILLER TF: TALL BASE FILLER WF: WALL FILLER

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	REMARKS
T1	GRAB BAR (42")	CFCI
T2	GRAB BAR (36")	CFCI
T3	GRAB BAR (18")	CFCI
T4	DUAL ROLL TOILET TISSUE	OFCI
T5	SEMI-RECESSED MANUAL PAPER TOWEL DISPENSER	OFCI
T6	SOAP DISPENSER	OFCI
T7	30" DIA, FRAMELESS LIT MIRROR, SEE ELECTRICAL	CFCI
T8	24" X 33" FRAMED MIRROR	CFCI
T9	SANITARY NAPKIN DISPOSAL	CFCI
T11	WALL MOUNTED DIAPER CHANGING STATION	CFCI
T12	SEMI-RECESSED WASTE RECEPTACLE	CFCI
T13	UNDERLAVATORY GUARD	CFCI
T14	SHOWER CURTAIN	CFCI
T15	SHOWER ROD	CFCI
T16	ADA SHOWER SEAT	CFCI
T17	SHOWER GRAB BAR	CFCI

Farnsworth GROUP
2211 W. BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com
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ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
04/03/2025

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

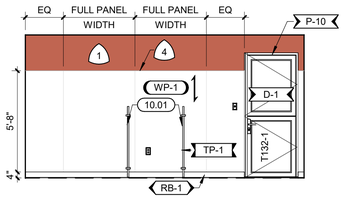
DATE:	04/03/2025
DESIGNED:	APH
DRAWN:	TMM
REVIEWED:	APH/SCB/JB

SHEET TITLE:
KINDERGARTEN INTERIOR ELEVATIONS AND ENLARGED PLANS

SHEET NUMBER:
A8.3

PROJECT NO.: 02401781.001

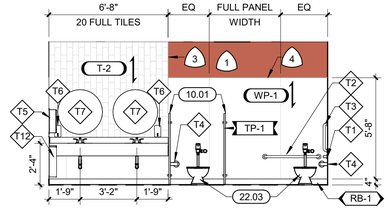
4/18/2025 4:41:02 PM



KINDERGARTEN TOILET T130 ELEVATION

9

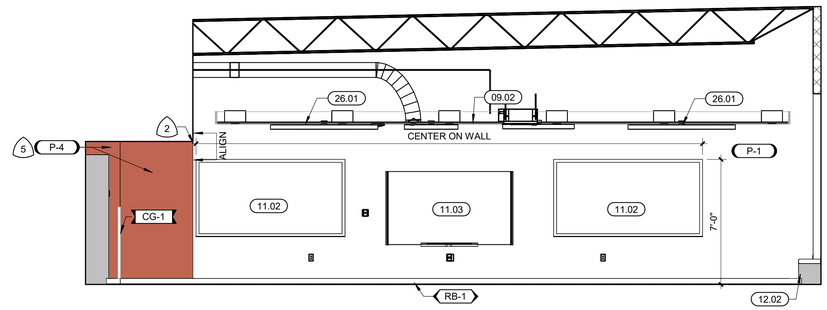
SCALE: 1/4" = 1'-0"



KINDERGARTEN TOILET T132 ELEVATION

7

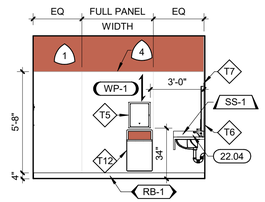
SCALE: 1/4" = 1'-0"



KINDERGARTEN 132 ELEVATION

3

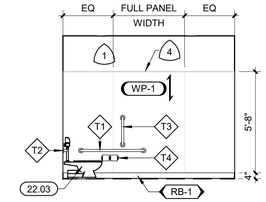
SCALE: 1/4" = 1'-0"



KINDERGARTEN TOILET T132 ELEVATION

8

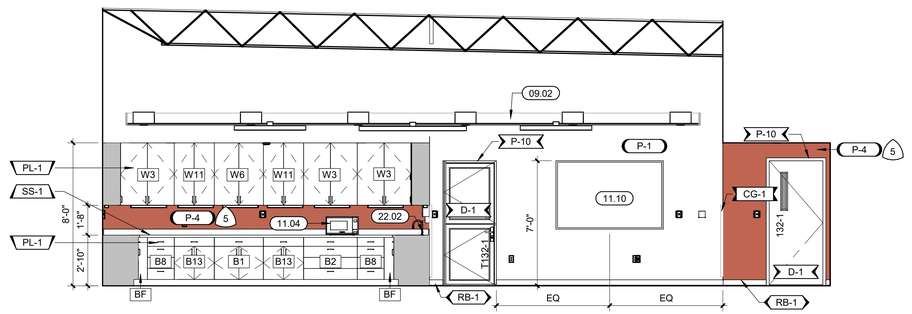
SCALE: 1/4" = 1'-0"



KINDERGARTEN TOILET T132 ELEVATION

6

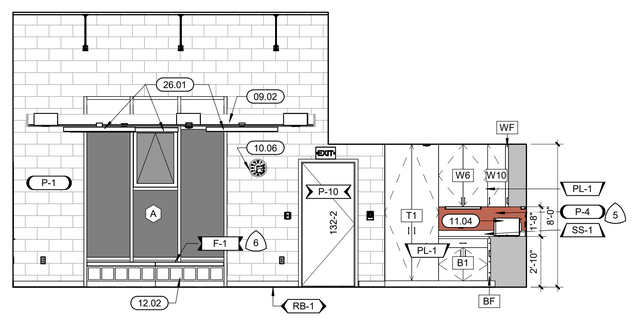
SCALE: 1/4" = 1'-0"



KINDERGARTEN 132 ELEVATION

2

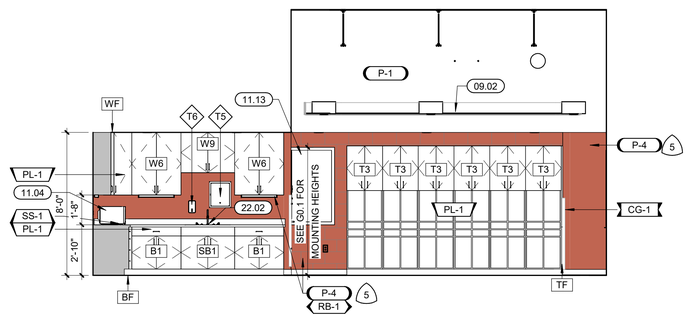
SCALE: 1/4" = 1'-0"



KINDERGARTEN 130 WEST ELEVATION

5

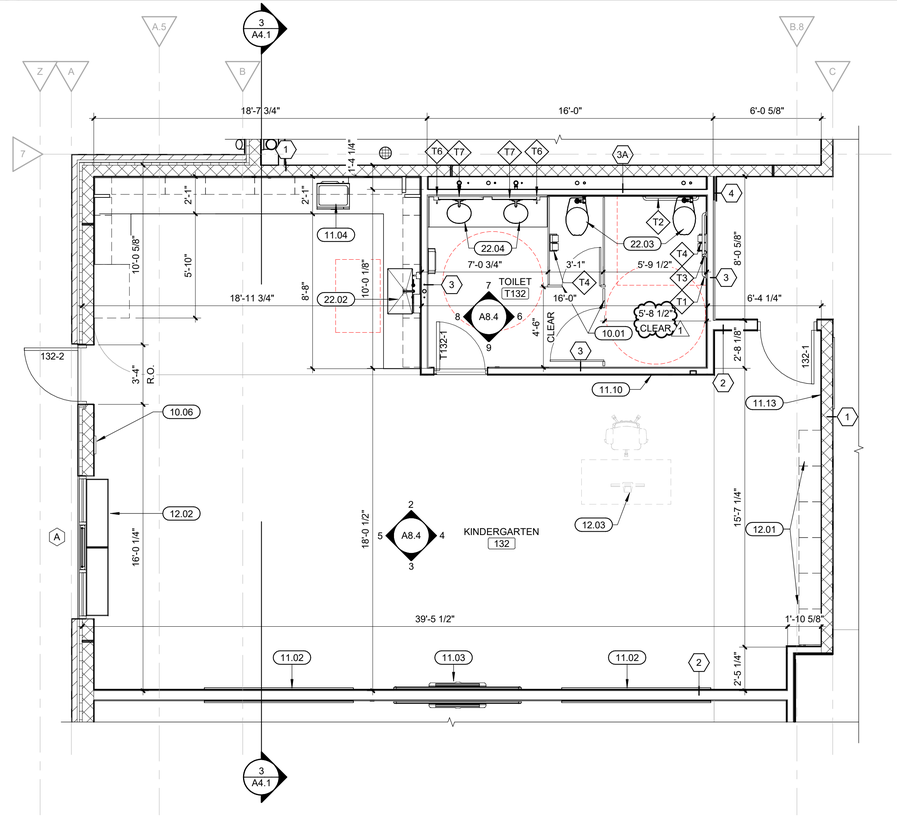
SCALE: 1/4" = 1'-0"



KINDERGARTEN 130 EAST ELEVATION

4

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



ENLARGED FLOOR PLAN - KINDERGARTEN 132

1

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

PLAN NORTH

INTERIOR ELEVATION GENERAL NOTES

A. SEE G0.1 FOR STANDARD MOUNTING HEIGHTS.

B. CONTROL JOINTS SHOWN ARE DESIGNATED FOR AESTHETIC PURPOSES. WHERE CONTROL JOINTS ARE NOT SHOWN, COMPLY WITH REQUIREMENTS AS DICTATED IN THE PARTITION GENERAL NOTES.

C. ALL DIMENSIONS IN THE INTERIOR ELEVATIONS ARE FROM AFF.

D. PROVIDE WALL BLOCKING TO INCLUDE BUT NOT LIMITED TO MOUNTING ANY HEAVY EQUIPMENTS, TOILET, AND OTHER ACCESSORIES.

KEYNOTES (BY DIVISION)

DIVISION 09: FINISHES	
09.02	2x2 ACT CLOUD WITH AXIOM TRIM. SEE CEILING DETAILS
DIVISION 10: SPECIALTIES	
10.01	CHILD'S TOILET PARTITIONS (CFCI)
10.06	HARDWIRED DIGITAL CLOCK (OFCI) - SEE ELECTRICAL
DIVISION 11: EQUIPMENT	
11.02	WHITEBOARD (OFCI)
11.03	SMARTBOARD (OFCI) - POSSIBLE LOCATION
11.04	MICROWAVE (OFCI)
11.10	48"x72" WALL MOUNTED TACKBOARD (OFCI)
11.13	48"x48" WALL MOUNTED TACKBOARD (OFCI)
DIVISION 12: FURNITURE	
12.01	FLOOR MOUNTED CUBBIES (CFCI)
12.02	BELOW WINDOW BENCH (OFCI)
12.03	TEACHER'S DESK AND CHAIR (VFVI)
DIVISION 22: PLUMBING	
22.02	UNDERMOUNT STAINLESS ADA KITCHEN SINK (CFCI)- SEE PLUMBING
22.03	CHILD'S TOILET (CFCI)- SEE PLUMBING
22.04	CHILD'S SINK INTEGRAL TO COUNTERTOP (CFCI)- SEE PLUMBING. SEE DETAIL 6/A8.0
DIVISION 26: ELECTRICAL	
26.01	LIGHT FIXTURES (CFCI) - SEE ELECTRICAL

CASEWORK SCHEDULE

NO.	WIDTH	HEIGHT	DEPTH	DETAIL NO.	DESCRIPTION
BASE CABINETS					
B1	2' - 9"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B2	3' - 0"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B3	2' - 6"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B4	3' - 0"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B5	2' - 0"	2' - 8 1/2"	1' - 9"	2/A8.1	ONE 6" DRAWER, TWO LARGE DRAWERS
B6	1' - 3"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B7	2' - 9"	2' - 8 1/2"	2' - 0"	2/A8.1	ONE 6" DRAWER, TWO LARGE DRAWERS
B8	1' - 6"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B9	2' - 0"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B10	1' - 9"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B11	1' - 3"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B12	2' - 0"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE 6" DRAWER, ONE HINGED DOOR, ONE ADJUSTABLE SHELF
B13	2' - 3"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B14	2' - 9"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B15	2' - 6"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
SB1	3' - 0"	2' - 8 1/2"	2' - 0"	4/A8.0	SINK CABINET, TWO HINGED DOORS, 6" FALSE FRONT ABOVE DOORS
SB2	2' - 6"	2' - 8 1/2"	2' - 0"	4/A8.0	SINK CABINET, TWO HINGED DOORS, 6" FALSE FRONT ABOVE DOORS
TALL CABINETS					
T1	3' - 0"	8' - 0"	2' - 0"	5/A8.0	TWO HINGED DOORS, FIVE ADJUSTABLE SHELVES
T2	2' - 0"	6' - 6"	1' - 3"	1/A8.0	TWO HINGED DOORS, CUSTOM CUBBY SPACES
T3	2' - 0"	7' - 3"	1' - 3"	3/A8.0	TWO HINGED DOORS, CUSTOM CUBBY SPACES
WALL CABINETS					
W1	2' - 6"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W2	1' - 6"	3' - 6"	1' - 0"	4/A8.1	ONE HINGED DOOR, TWO ADJUSTABLE SHELVES
W3	3' - 0"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W4	2' - 0"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W6	2' - 9"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W7	2' - 6"	2' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W8	3' - 0"	2' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W9	3' - 0"	2' - 3"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W10	1' - 0"	3' - 6"	1' - 0"	4/A8.1	ONE HINGED DOOR, TWO ADJUSTABLE SHELVES
W11	2' - 3"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES

BF: BASE FILLER TF: TALL BASE FILLER WF: WALL FILLER

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	REMARKS
T1	GRAB BAR (42")	CFCI
T2	GRAB BAR (36")	CFCI
T3	GRAB BAR (18")	CFCI
T4	DUAL ROLL TOILET TISSUE	OFCI
T5	SEMI-RECESSED MANUAL PAPER TOWEL DISPENSER	OFCI
T6	SOAP DISPENSER	OFCI
T7	30" DIA. FRAMELESS LIT MIRROR, SEE ELECTRICAL	CFCI
T8	24" X 33" FRAMED MIRROR	CFCI
T9	SANITARY NAPKIN DISPOSAL	CFCI
T11	WALL MOUNTED DIAPER CHANGING STATION	CFCI
T12	SEMI-RECESSED WASTE RECEPTACLE	CFCI
T13	UNDERLAVATORY GUARD	CFCI
T14	SHOWER CURTAIN	CFCI
T15	SHOWER ROD	CFCI
T16	ADA SHOWER SEAT	CFCI
T17	SHOWER GRAB BAR	CFCI

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2211 W. BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com
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ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
04/03/2025

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	APH
DRAWN:	TMM
REVIEWED:	APH/SCB/JB

SHEET TITLE:

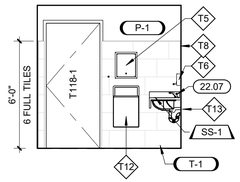
KINDERGARTEN INTERIOR ELEVATIONS AND ENLARGED PLANS

SHEET NUMBER:

A8.4

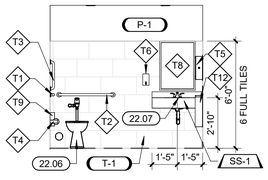
PROJECT NO.: 02401781.001

4/18/2025 4:41:18 PM



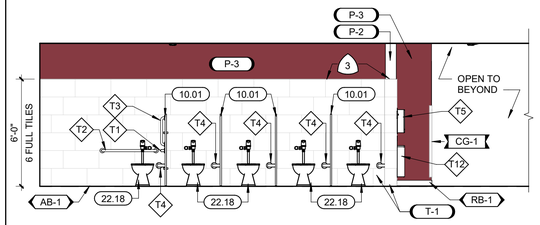
TOILET T117 ELEVATION

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



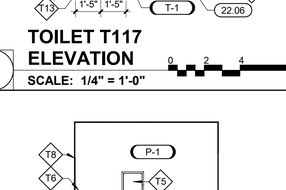
TOILET T116 ELEVATION

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



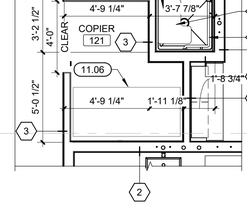
RESTROOM T113 ELEVATION

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



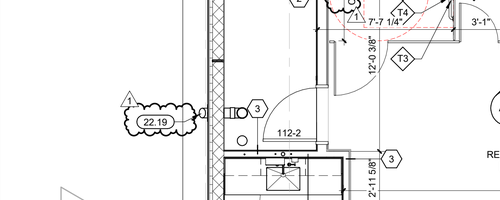
TOILET T117 ELEVATION

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



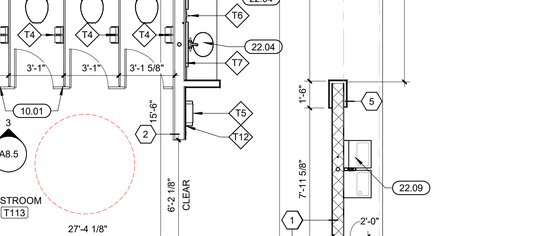
TOILET T116 ELEVATION

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



MULTI- USER RESTROOM WEST ELEVATION

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



RESTROOM T111 ELEVATION

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

TOILET T117 ELEVATION

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

TOILET T117 ELEVATION

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

TOILET T116 ELEVATION

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

ENLARGED FLOOR PLAN - ADMIN TOILETS & COPIER 119

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

ENLARGED FLOOR PLAN - RESTROOM T111 & T113

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

PLAN NORTH

INTERIOR ELEVATION GENERAL NOTES

A. SEE G0.1 FOR STANDARD MOUNTING HEIGHTS.

B. CONTROL JOINTS SHOWN ARE DESIGNATED FOR AESTHETIC PURPOSES. WHERE CONTROL JOINTS ARE NOT SHOWN, COMPLY WITH REQUIREMENTS AS DICTATED IN THE PARTITION GENERAL NOTES.

C. ALL DIMENSIONS IN THE INTERIOR ELEVATIONS ARE FROM AFF.

D. PROVIDE WALL BLOCKING TO INCLUDE BUT NOT LIMITED TO MOUNTING ANY HEAVY EQUIPMENTS, TOILET, AND OTHER ACCESSORIES.

KEYNOTES (BY DIVISION)

DIVISION 10: SPECIALTIES	
10.01	CHILD'S TOILET PARTITIONS (CFCI)
DIVISION 11: EQUIPMENT	
11.06	EXISTING PRINTER/COPIER (OFOI)
DIVISION 22: PLUMBING	
22.03	CHILD'S TOILET (CFCI)- SEE PLUMBING
22.04	CHILD'S SINK INTEGRAL TO COUNTERTOP (CFCI)- SEE PLUMBING. SEE DETAIL 6/A8.0
22.05	FLOOR MOUNTED URINAL (CFCI)- SEE PLUMBING
22.06	ADA TOILET (CFCI)- SEE PLUMBING
22.07	ADA SINK, INTEGRAL TO COUNTERTOP(CFCI)- SEE PLUMBING
22.08	ADA 36"x36" SHOWER STALL (CFCI)- SEE PLUMBING
22.09	CHILDREN'S ADA DRINKING FOUNTAIN WITH BOTTLE FILLING STATION (CFCI)- SEE PLUMBING
22.10	MOP SINK WITH UTILITY SHELVING ABOVE (CFCI)- SEE PLUMBING
22.11	SOLUTION MIXING STATION (CFCI)
22.15	HI-LO ADA DRINKING FOUNTAIN WITH BOTTLE FILLING STATION (CFCI)- SEE PLUMBING
22.18	MULTI STALL CHILD'S TOILET (CFCI)- SEE PLUMBING
22.19	PROVIDE SPLASHBLOCK AT PLUMBING DRAIN. SEE PLUMBING.

TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	REMARKS
T1	GRAB BAR (42")	CFCI
T2	GRAB BAR (36")	CFCI
T3	GRAB BAR (18")	CFCI
T4	DUAL ROLL TOILET TISSUE	OFCI
T5	SEMI-RECESSED MANUAL PAPER TOWEL DISPENSER	OFCI
T6	SOAP DISPENSER	OFCI
T7	30" DIA, FRAMELESS LIT MIRROR, SEE ELECTRICAL	CFCI
T8	24" X 33" FRAMED MIRROR	CFCI
T9	SANITARY NAPKIN DISPOSAL	CFCI
T11	WALL MOUNTED DIAPER CHANGING STATION	CFCI
T12	SEMI-RECESSED WASTE RECEPTACLE	CFCI
T13	UNDERLAVATORY GUARD	CFCI
T14	SHOWER CURTAIN	CFCI
T15	SHOWER ROD	CFCI
T16	ADA SHOWER SEAT	CFCI
T17	SHOWER GRAB BAR	CFCI

FINISH KEYNOTES

1 PAINT COLOR TO MATCH ADJACENT CLASSROOM PAINT ACCENT COLOR, SEE FINISH PLANS.
2 ALIGN PAINT TRANSITION TO EDGE OF SOFFIT OVERHEAD.
3 PROVIDE METAL EDGE TRIM TO EXPOSED TILE EDGES AND AT WAINSCOT TOP.
4 PROVIDE METAL EDGE TRIM TO TOP OF FRP PANELING.
5 ACCENT COLOR IS DEPENDANT ON ROOM, SEE FINISH PLANS.
6 FABRIC COLOR IS DEPENDANT ON ROOM, SEE FINISH PLANS.
7 PAINTED WALL DESIGN USING P-3, P-4, P-5, P-6, P-7, AND P-8. SEE DETAIL #4/A8.11 FOR DESIGN.
8 PAINTED WALL DESIGN USING P-3, P-4, P-5, P-6, P-7, AND P-8. SEE DETAIL #6/A8.10 FOR DESIGN.
9 PAINTED WALL DESIGN USING P-3, P-4, P-5, P-6, P-7, AND P-8. SEE DETAIL #5/A8.10 FOR DESIGN.
10 COLUMN TO BE PAINTED, P-10
11 DESIGN TO ALIGN FROM FLOOR TO WALL. SEE INTERIOR FINISH PLANS.
12 RADIUS DETERMINED FROM FLOOR DESIGN. SEE INTERIOR FINISH PLANS.

Farnsworth GROUP
2211 W. BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com
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ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
04/03/2025

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	APH
DRAWN:	TMM
REVIEWED:	APH/SCB/JB

SHEET TITLE:

RESTROOM INTERIOR ELEVATIONS AND ENLARGED PLANS

SHEET NUMBER:

A8.5

PROJECT NO.: 02401781.001

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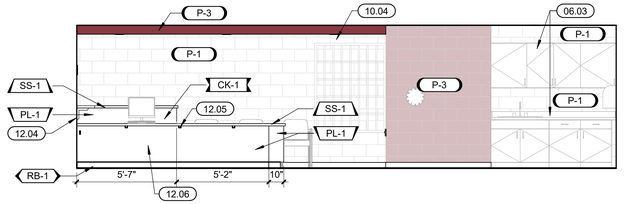
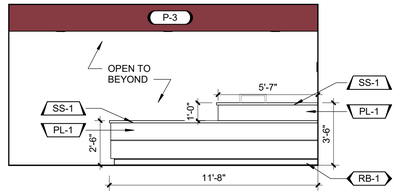


7 SECRETARY X131 ELEVATION
SCALE: 1/4" = 1'-0"



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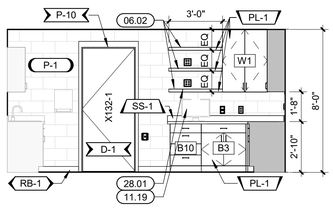
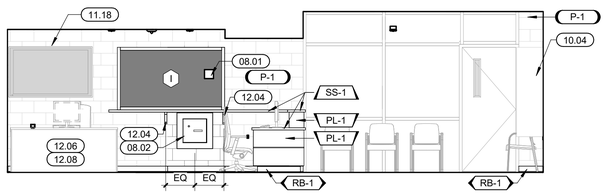
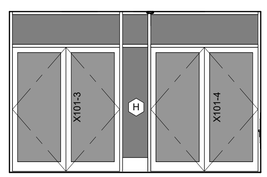


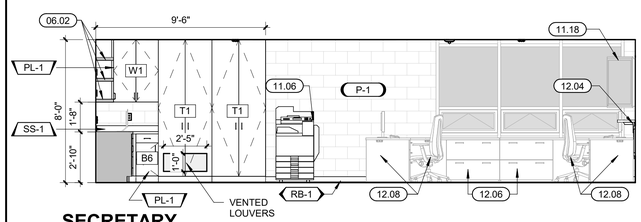
9 SECRETARY X131 ELEVATION
SCALE: 1/4" = 1'-0"



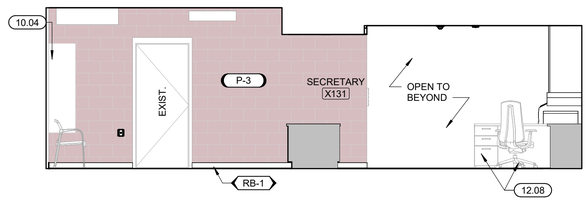
6 SECRETARY X131 ELEVATION
SCALE: 1/4" = 1'-0"



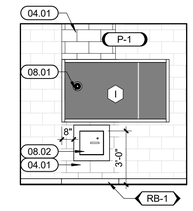
3 VESTIBULE X101 ELEVATION
SCALE: 1/4" = 1'-0"



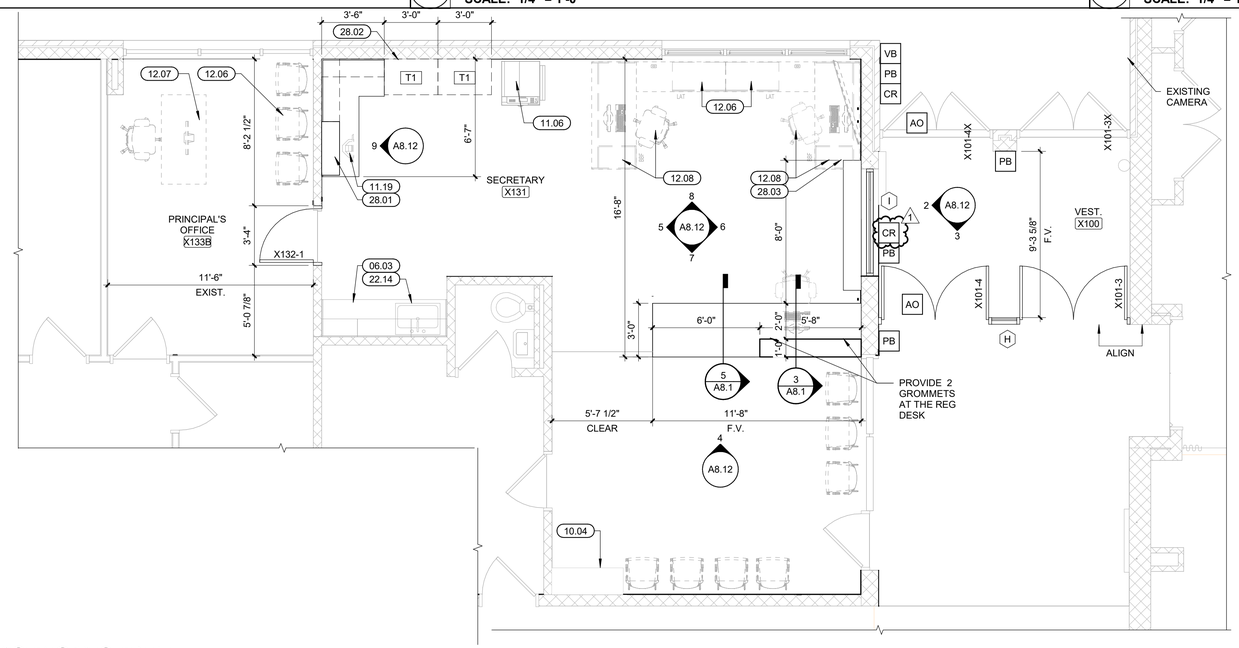
8 SECRETARY X131 ELEVATION
SCALE: 1/4" = 1'-0"



5 SECRETARY X131 ELEVATION
SCALE: 1/4" = 1'-0"



2 VESTIBULE X101 ELEVATION
SCALE: 1/4" = 1'-0"



1 ENLARGED PLAN - EXISTING VESTIBULE
SCALE: 1/4" = 1'-0"

PLAN
NORTH

INTERIOR ELEVATION GENERAL NOTES

A. SEE G0.1 FOR STANDARD MOUNTING HEIGHTS.

B. CONTROL JOINTS SHOWN ARE DESIGNATED FOR AESTHETIC PURPOSES. WHERE CONTROL JOINTS ARE NOT SHOWN, COMPLY WITH REQUIREMENTS AS DICTATED IN THE PARTITION GENERAL NOTES.

C. ALL DIMENSIONS IN THE INTERIOR ELEVATIONS ARE FROM AFF.

D. PROVIDE WALL BLOCKING TO INCLUDE BUT NOT LIMITED TO MOUNTING ANY HEAVY EQUIPMENTS, TOILET, AND OTHER ACCESSORIES.

KEYNOTES (BY DIVISION) #.##

DIVISION 04: MASONRY	
04.01	INFILL CMU REMAINING OPENING WHERE EXISTING DOOR WAS DEMOLISHED.
DIVISION 06: WOOD, PLASTICS, AND COMPOSITES	
06.02	2" HIGH WOOD FLOATING SHELVES (CFCI)
06.03	EXISTING COUNTERTOPS AND CABINETS TO REMAIN.
DIVISION 08: OPENINGS	
08.01	LEVEL 3 BULLET RESISTANT WINDOW WITH LEVEL 3 STAINLESS STEEL BULLET RESISTANT SPEAKER APERTURE. SEE GLAZING ELEVATION.
08.02	LEVEL 3 BULLET RESISTANT SECURE PACKAGE PASSER. COORDINATE LOCATION TO AVOID CONDUITS AND RACEWAYS ON OFFICE SIDE. COORDINATE FINAL LOCATION WITH OWNER.
DIVISION 10: SPECIALTIES	
10.04	EXISTING WALL MOUNTED MAILBOX. PROVIDE BLOCKING AS NECESSARY.
DIVISION 11: EQUIPMENT	
11.06	EXISTING PRINTER/COPIER (OFOI)
11.18	EXISTING SECURITY TV (OFCI) @ 6'-0"
11.19	RELOCATE EXISTING SECURITY TV/MONITOR ON THE COUNTERTOP.
DIVISION 12: FURNITURE	
12.04	8"x8" SURFACE MOUNTED METAL COUNTERTOP BRACKET
12.05	IN WALL COUNTERTOP BRACKET, BASIS OF DESIGN: RAKKS EH-1824FM OR APPROVED EQUAL
12.06	OFFICE STORAGE FURNITURE (VFVI)
12.07	PRINCIPAL'S ROOM DESK AND CHAIR (VFVI)
12.08	OFFICE DESK AND CHAIR (VFVI)
DIVISION 22: PLUMBING	
22.14	EXISTING SINGLE BOWL SINK TO REMAIN
DIVISION 28: ELECTRONIC SAFETY AND SECURITY	
28.01	RELOCATE EXISTING PA SYSTEM IN THIS AREA. COORDINATE WITH OWNER.
28.02	VENTED TALL CABINETS TO CONCEAL THE EXISTING NETWORK PANELS.
28.03	CONTRACTOR TO RECONFIGURE THE ENTRY DOOR COMMUNICATION SYSTEM TO NEW RECEPTION OFFICE LAYOUT. COORDINATE WITH OWNER FOR FINAL LOCATION OF COMMUNICATION DEVISES WITHING NEW OFFICE LAYOUT.

CASEWORK SCHEDULE

NO.	WIDTH	HEIGHT	DEPTH	DETAIL NO.	DESCRIPTION
BASE CABINETS					
B1	2' - 9"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B2	3' - 0"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B3	2' - 6"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B4	3' - 0"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B5	2' - 0"	2' - 8 1/2"	1' - 9"	2/A8.1	ONE 6" DRAWER, TWO LARGE DRAWERS
B6	1' - 3"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B7	2' - 9"	2' - 8 1/2"	2' - 0"	2/A8.1	ONE 6" DRAWER, TWO LARGE DRAWERS
B8	1' - 6"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B9	2' - 0"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B10	1' - 9"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B11	1' - 3"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B12	2' - 0"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE 6" DRAWER, ONE HINGED DOOR, ONE ADJUSTABLE SHELF
B13	2' - 3"	2' - 8 1/2"	2' - 0"	6/A8.1	ONE LARGE 6" DRAWER, TWO HINGED DOORS, ONE ADJUSTABLE SHELF
B14	2' - 9"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
B15	2' - 6"	2' - 8 1/2"	2' - 0"	2/A8.0	ONE 6" DRAWER, THREE EQUAL DRAWERS
SB1	3' - 0"	2' - 8 1/2"	2' - 0"	4/A8.0	SINK CABINET, TWO HINGED DOORS, 6" FALSE FRONT ABOVE DOORS
SB2	2' - 6"	2' - 8 1/2"	2' - 0"	4/A8.0	SINK CABINET, TWO HINGED DOORS, 6" FALSE FRONT ABOVE DOORS
TALL CABINETS					
T1	3' - 0"	8' - 0"	2' - 0"	5/A8.0	TWO HINGED DOORS, FIVE ADJUSTABLE SHELVES
T2	2' - 0"	6' - 6"	1' - 3"	1/A8.0	TWO HINGED DOORS, CUSTOM CUBBY SPACES
T3	2' - 0"	7' - 3"	1' - 3"	3/A8.0	TWO HINGED DOORS, CUSTOM CUBBY SPACES
WALL CABINETS					
W1	2' - 6"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W2	1' - 6"	3' - 6"	1' - 0"	4/A8.1	ONE HINGED DOOR, TWO ADJUSTABLE SHELVES
W3	3' - 0"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W4	2' - 0"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W6	2' - 9"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W7	2' - 6"	2' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W8	3' - 0"	2' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W9	3' - 0"	2' - 3"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES
W10	1' - 0"	3' - 6"	1' - 0"	4/A8.1	ONE HINGED DOOR, TWO ADJUSTABLE SHELVES
W11	2' - 3"	3' - 6"	1' - 0"	4/A8.1	TWO HINGED DOORS, TWO ADJUSTABLE SHELVES

BF: BASE FILLER TF: TALL BASE FILLER WF: WALL FILLER

Farnsworth GROUP
2211 W. BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com
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ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
04/03/2025

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	APH
DRAWN:	TMM
REVIEWED:	APH/SCB/JB

SHEET TITLE:
VESTIBULE INTERIOR ELEVATIONS AND ENLARGED PLANS

SHEET NUMBER:
A8.12

PROJECT NO.: 02401781.001

4/18/2025 4:41:53 PM

1 **REFLECTED CEILING PLAN - AREA A**
SCALE: 1/8" = 1'-0"

0 4 8 16

PLAN NORTH

REFLECTED CEILING PLAN GENERAL NOTES

A. CEILING MOUNTED LIGHT FIXTURES AND DIFFUSERS ARE SHOWN FOR COORDINATION PURPOSES. EXIT SIGNAGE, SPRINKLER HEADS, SMOKE DETECTORS AND OTHER DEVICES ARE NOT SHOWN. ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN THE CEILING PANEL IN WHICH THEY OCCUR. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR DEVICES NOT SHOWN. CONTRACTOR TO REVIEW CEILING LAYOUT AND NOTIFY DESIGN PROFESSIONAL OF ANY CONFLICTS BEFORE PROCEEDING WITH CONSTRUCTION.

B. PAINT CUT EDGES OF ACOUSTIC CEILING TILES TO MATCH CEILING TILE WHERE EXPOSED EDGES ARE VISIBLE.

C. CONTROL JOINTS SHALL BE INSTALLED; AT ALL CONSTRUCTION CHANGES WITHIN PLANE OF CEILING WHERE CEILING DIMENSIONS EXCEED 50'-0" IN EITHER DIRECTION WITH PERIMETER RELIEF AND 30'-0" WITHOUT, AT WINGS OF "L", "U" AND "T" SHAPED CEILING AREAS, AND AT BUILDING EXPANSION OR CONTROL JOINTS. REFER TO PUBLISHED CONTROL JOINT DETAILS

D. UNO ALL EXPOSED CEILINGS & STRUCTURE SHALL BE PAINTED, COLOR: P-1.

E. UNO ALL GYPSUM CEILINGS SHALL BE PAINTED, COLOR: P-9.

F. ALL EXISTING CEILINGS SHALL REMAIN UNLESS OTHERWISE NOTED. PLEASE PROVIDE ADDITIONAL TILES, GRIDS OR OTHER ACCESSORIES AS REQUIRED IN ORDER TO PERFORM NECESSARY MECHANICAL INSTALLATION. 1

REFLECTED CEILING PLAN LEGEND

- GYP BOARD CEILING
- PRE-FINISHED METAL SOFFIT PANEL
- ACT-1 — 2X2 ACOUSTIC CEILING TILE
- EXPOSED CEILING
- ACT-2 — 2X4 ACOUSTIC CEILING TILE
- LIGHT FIXTURES - SEE ELECTRICAL
- ACT-2 / ACT-3 — 2X4, 0.5X4 PATTERN ACOUSTIC CEILING TILE
- MECHANICAL DEVICES - SEE MECHANICAL

KEYNOTES (BY DIVISION)

DIVISION 11: EQUIPMENT	
11.09	RETRACTABLE PROJECTOR SCREEN (CFCI)
11.11	STRUCTURE MOUNTED PROJECTOR (CFCI)
DIVISION 23: HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)	
23.03	CEILING CASSETTE - SEE MECHANICAL.

FINISH KEYNOTES

Farnsworth GROUP
2211 W. BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
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ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
04/03/2025

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	APH
DRAWN:	TMM
REVIEWED:	APH/SCB/JB

SHEET TITLE:
REFLECTED CEILING PLAN - AREA A

SHEET NUMBER:
A9.1A

PROJECT NO.: 02401781.001

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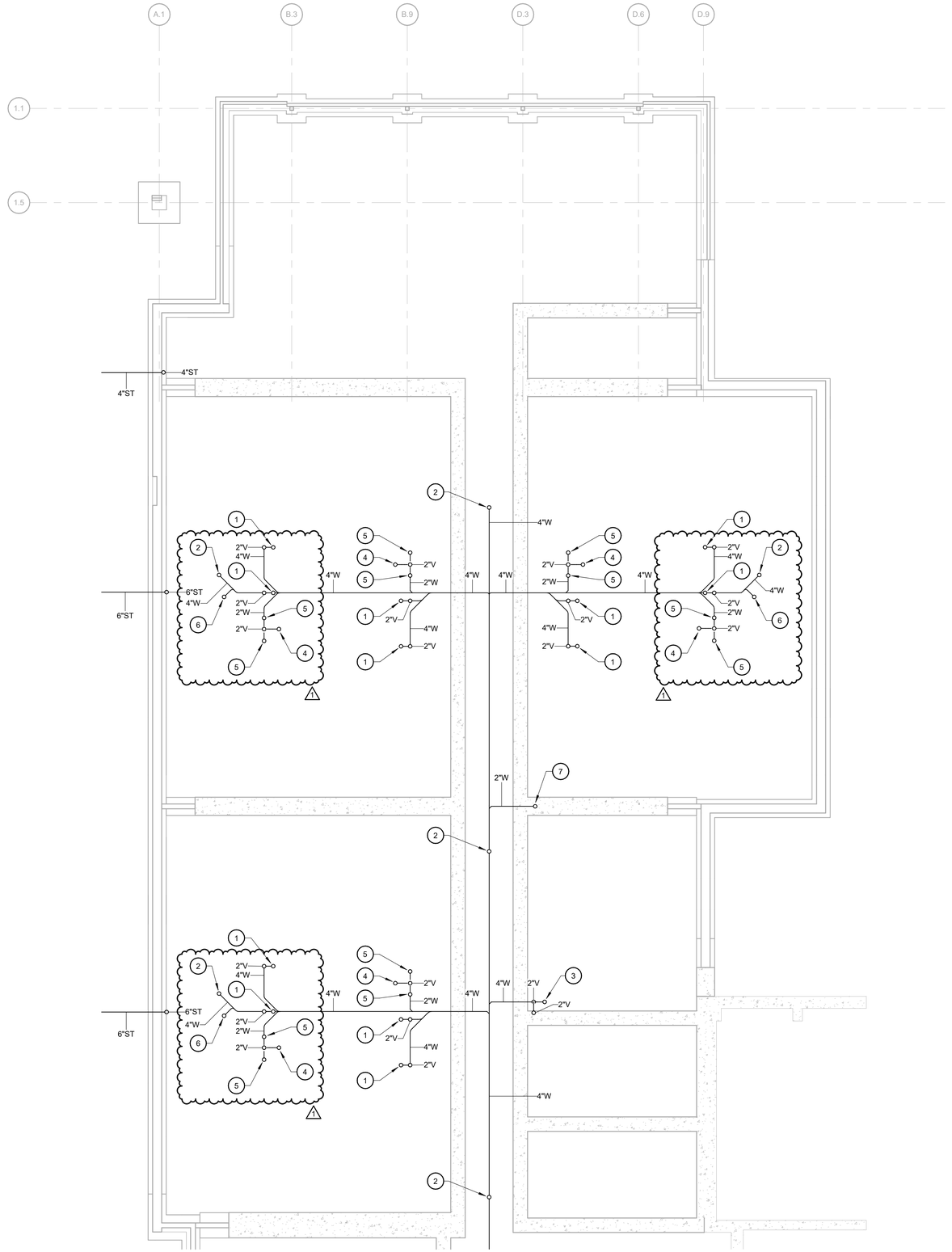


GENERAL NOTES

A. REFER TO CIVIL PLANS FOR CONTINUATION OF UTILITIES ON SITE.

KEYNOTES (#)

1 4" W UP TO WATER CLOSET.

2 4" W UP TO FLOOR CLEANOUT.

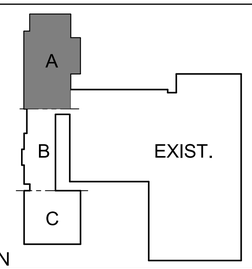
3 4" W UP TO FLOOR DRAIN.

4 2" W UP TO FLOOR DRAIN.

5 2" W UP TO LAVATORY.

6 2" W UP TO SINKS.

7 2" W UP TO WATER COOLER.



KEY PLAN
SCALE: NO SCALE

TRUE NORTH

1 **PLUMBING UNDERSLAB PLAN - AREA A**
SCALE: 1/8" = 1'-0"

0 4 8 16

TRUE NORTH

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Washington Elementary Renovation & Addition

507 W. Condit St.
Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	RC
DRAWN:	RC
REVIEWED:	WR

SHEET TITLE:
PLUMBING UNDERSLAB PLAN - AREA A

SHEET NUMBER:
P1.1A

PROJECT NO.: 0240781.001

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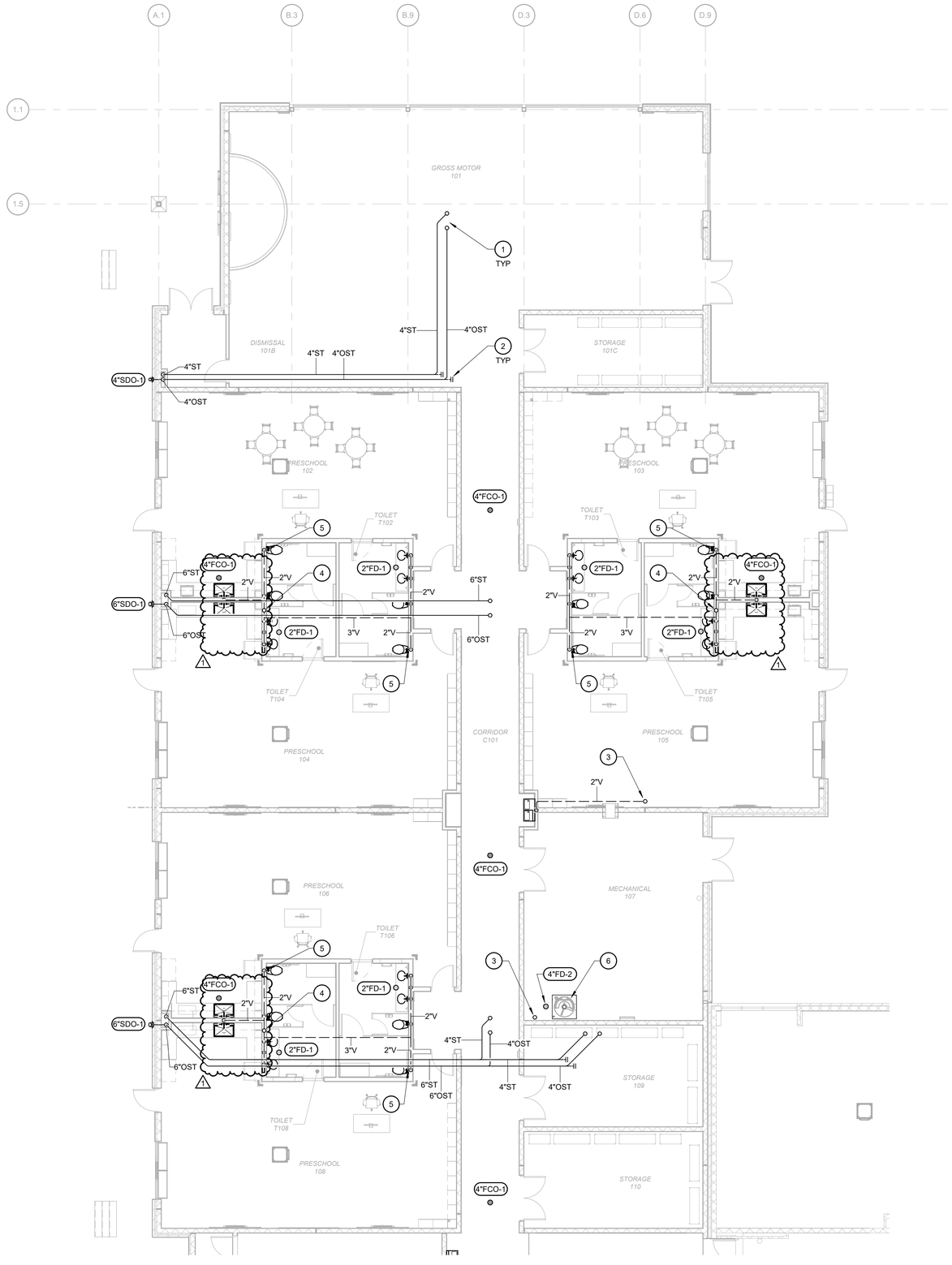


GENERAL NOTES

A. ONLY DRAIN FIXTURE TAGS ARE SHOWN ON THIS PLAN. REFER TO WATER PLANS FOR OTHER FIXTURE AND EQUIPMENT TAGS.

KEYNOTES (#)

1 STORM FROM ROOF DRAINS. REFER TO P2.1 FOR LOCATIONS AND SIZES OF ROOF DRAINS (TYP).

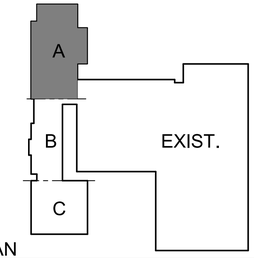
2 CLEANOUT (TYP).

3 2" V UP TO 3" VTR.

4 4" V UP TO 4" VTR.

5 PROVIDE 2" WALL CLEANOUT (WCO-1) FOR WATER CLOSET VENT PIPE ABOVE FIXTURE BEHIND ACCESS PANEL.

6 REFER TO MECH PLAN M1.1A FOR GWH-1 VENTING. INSTALL VENTING PER MANUFACTURER'S INSTRUCTIONS.



KEY PLAN
SCALE: NO SCALE

1 **PLUMBING DWV PLAN - AREA A**
SCALE: 1/8" = 1'-0"

0 4 8 16

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Robinson, IL 62454

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DESIGNED:	RC
DRAWN:	RC
REVIEWED:	WR

SHEET TITLE:
PLUMBING DWV PLAN - AREA A

SHEET NUMBER:
P1.2A

PROJECT NO.: 0240781.001

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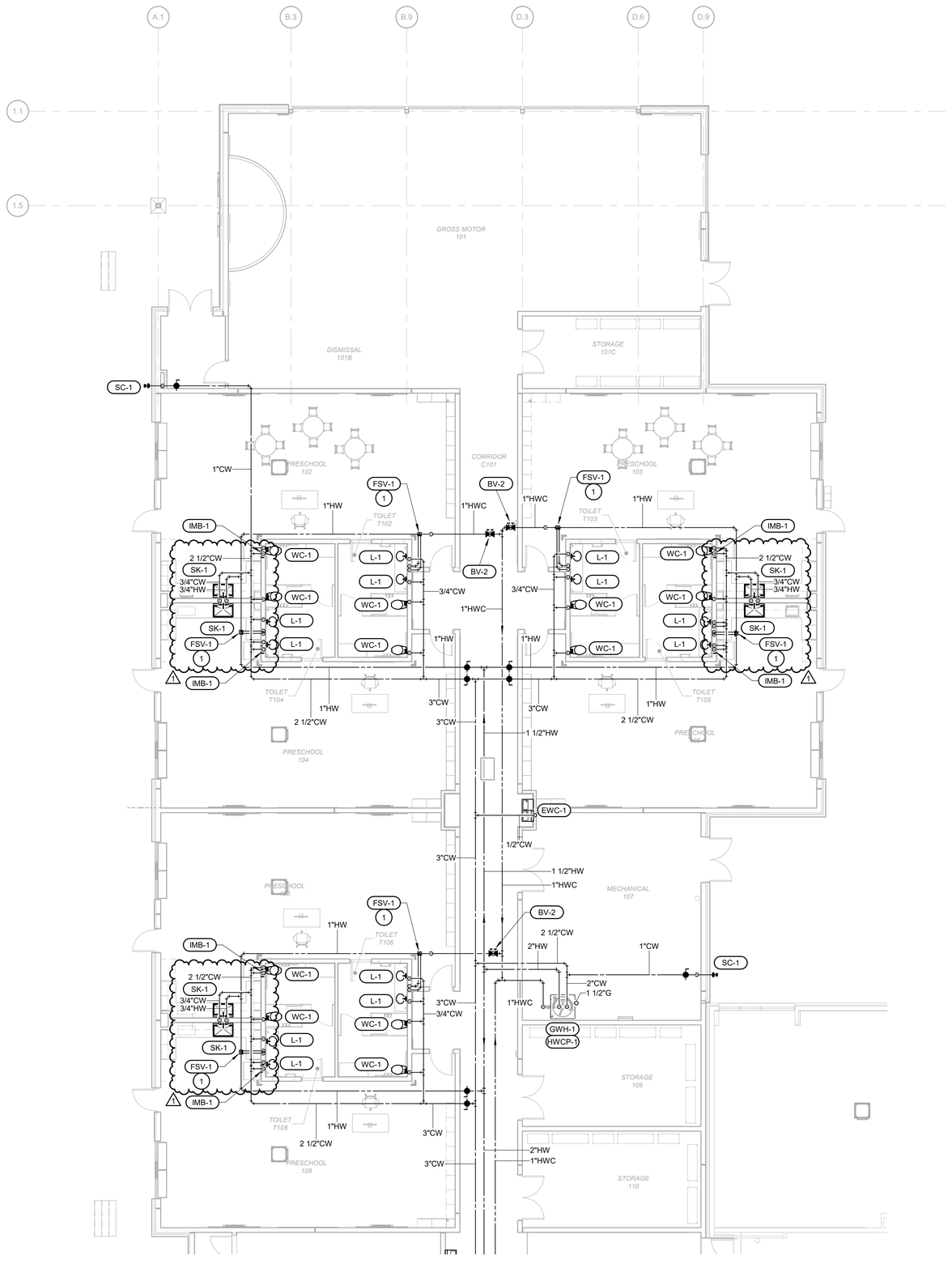
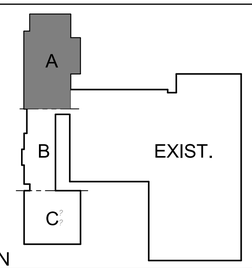


KEYNOTES (#)

1 ROUTE 3/4" FLOW SPLITTER HW BRANCH LOOP TO SUPPLY TWO LAVATORIES.



KEY PLAN
SCALE: NO SCALE

TRUE NORTH

1 PLUMBING WATER PLAN - AREA A
SCALE: 1/8" = 1'-0"

0 4 8 16

TRUE NORTH

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DRAWN:	RC
REVIEWED:	WR

SHEET TITLE:
PLUMBING WATER PLAN - AREA A

SHEET NUMBER:
P1.3A

PROJECT NO.: 0240781.001

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GAS WATER HEATER SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	LOCATION	TANK STORAGE (GAL.)	RECOVERY GPH @ 100 DEG.	BTU/HR INPUT	GAS CONN. SIZE (IN.)	WATER CONN. SIZE (IN.)	CA INTAKE DIA. (IN.)	FLUE DIA. (IN.)	ELECTRICAL DATA		PHYSICAL DATA					REMARKS
											V/PH	FLA	D (IN.)	W (IN.)	H (IN.)	DIA. (IN.)	WT. (LB.)	
GWH1	A.O. SMITH	BTH-500(A)	MECHANICAL 107	119	576	499,900	1-1/2"	1 1/2"	4	4	120/1	5	N/A	N/A	75	33	1850	SEE NOTES

NOTES:
1. SET STORAGE TEMPERATURE TO 140°F.
2. PROVIDE WITH ASME RATED EXPANSION TANK EQUAL TO WATTS #DETA-20.
3. PROVIDE WITH CONCENTRIC VENTING KIT AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.
4. PLACE HEATER IN DRAIN PAN ON 4" CONCRETE HOUSEKEEPING PAD.
5. ROUTE PAN DRAIN AND T&P RELIEF LINE TO FLOOR RECEPTOR.
6. PROVIDE WITH CONDENSATE NEUTRALIZER.

CIRCULATING PUMP SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	LOCATION	MOUNTING	GPM	FEET HEAD	MOTOR RPM	ELECTRICAL DATA			REMARKS
								HP	V/PH	FLA	
HWCP-1	TACO	#0011-F4	MECHANICAL 107	IN-LINE	5	27	3250	0.15	120/1		SEE NOTES

NOTES:
1. PROVIDE WITH AQUASTAT AND TIMECLOCK.
2. MOUNT PUMP POSITION PER MANUFACTURER'S WRITTEN INSTALLATION REQUIREMENTS.

THERMOSTATIC MIXING VALVE SCHEDULE

PLAN MARK	MANUFACTURER	MODEL	GPM	INLET	OUTLET	MOUNTING	REMARKS
TMV-1	WATTS	LFMMV	0.5-6	1/2"	1/2"	WALL	HIGH TEMP MIXING VALVE: LEAD FREE WITH UNION ENDS AND INLET CHECK VALVES. REFER TO PLUMBING FIXTURE SCHEDULE FOR OUTLET TEMPERATURE SET POINT OF INDIVIDUAL FIXTURES. ASSE1017 (POINT-OF-USE FOR ALL SINKS AND LAVATORIES).

NOTE: OTHER ACCEPTABLE MANUFACTURER'S SHALL BE: BRADLEY, SYMMONS, POWERS, LEONARD, WILKINS, ZURN.

BACKFLOW PREVENTER SCHEDULE

PLAN MARK	MAKE/MODEL	DESCRIPTION REMARKS
BFP-1	WATTS #994RPDA WILKENS CONBRACO (FIRE SUPPRESSION)	REDUCED PRESSURE DETECTOR BACKFLOW PREVENTER: 300 SERIES STAINLESS STEEL BODY WITH DIFFERENTIAL RELIEF VALVE LOCATED IN ZONE BETWEEN INDEPENDENT CHECK VALVES, OUTSIDE STEM AND YOKE GATE VALVES, BALL TYPE TEST COCKS, AND BY-PASS WITH METER. ASSE 1047. PROVIDE AIR GAP FITTING AND ROUTE DRAIN PIPING TO FLOOR DRAIN.
BFP-2	WATTS #LF009-QT-S WILKENS CONBRACO (DOMESTIC WATER)	REDUCED PRESSURE ZONE BACKFLOW PREVENTER: LEAD FREE, TWO INDEPENDENT CHECK VALVES, INTERMEDIATE RELIEF VALVE, SHUT-OFF VALVES, BALL TYPE TEST COCKS, AND WYE STRAINER. ASSE 1013 (CHEMICAL DISPENSER). PROVIDE AIR GAP FITTING AND ROUTE DRAIN PIPING TO MOP SINK.

BALANCING VALVE SCHEDULE

PLAN MARK	DESCRIPTION AND REMARKS
BV-1	HOT WATER RETURN BALANCING VALVE: SELF-BALANCING THERMOSTATIC TYPE, STAINLESS STEEL BODY, NON-ADJUSTABLE, WITH LEAD FREE CONSTRUCTION AND APPROVED FOR POTABLE WATER APPLICATIONS (NSF/ANSI 61, NSF/ANSI 372). ACCEPTABLE MANUFACTURERS: THERM-OMEGA-TECH "CIRCUIT SOLVER" #CSUA-3/4-135-CV1 FOR 3/4" PIPE SIZE AND VALVE CLOSING TEMPERATURE OF 135°F. NOTES/ACCESSORIES: PROVIDE WITH OPTIONAL SHUTOFF VALVES AND CHECK VALVE PER MODEL NUMBER ABOVE. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
BV-2	HOT WATER RETURN BALANCING VALVE: SELF-BALANCING THERMOSTATIC TYPE, STAINLESS STEEL BODY, NON-ADJUSTABLE, WITH LEAD FREE CONSTRUCTION AND APPROVED FOR POTABLE WATER APPLICATIONS (NSF/ANSI 61, NSF/ANSI 372). ACCEPTABLE MANUFACTURERS: THERM-OMEGA-TECH "CIRCUIT SOLVER" #CSUA-1-135-CV1 FOR 1" PIPE SIZE AND VALVE CLOSING TEMPERATURE OF 135°F. NOTES/ACCESSORIES: PROVIDE WITH OPTIONAL SHUTOFF VALVES AND CHECK VALVE PER MODEL NUMBER ABOVE. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

DRAIN SCHEDULE

PLAN MARK	MAKE/MODEL	LOCATION	DESCRIPTION REMARKS
FD-1	WATTS #FD-100-A5 J.R. SMITH ZURN	RESTROOMS AND GENERAL USE AREAS	FLOOR DRAIN: EPOXY COATED CAST IRON BODY WITH 5" ROUND ADJUSTABLE NICKEL BRONZE STRAINER, INTEGRAL CLAMPING COLLAR, AND BOTTOM OUTLET. PROVIDE WITH BARRIER TYPE TRAP SEAL DEVICE EQUAL TO PROSET "TRAPGUARD".
FD-2	WATTS #FD-100-B8-5 J.R. SMITH MIFAB ZURN	JANITOR 112 MECHANICAL 107	FLOOR DRAIN: EPOXY COATED CAST IRON BODY WITH 8" ROUND ADJUSTABLE HEAVY DUTY NICKEL BRONZE STRAINER, SEDIMENT BUCKET, INTEGRAL CLAMPING COLLAR, AND BOTTOM OUTLET. PROVIDE WITH BARRIER TYPE TRAP SEAL DEVICE EQUAL TO PROSET "TRAPGUARD".
FD-3	WATTS #SDCP-SDNB J.R. SMITH ZURN	SHOWER	FLOOR DRAIN: EPOXY COATED CAST IRON BODY WITH WITH 4" CHROME PLATED BRASS TOP, INTEGRAL CLAMPING COLLAR, AND BOTTOM OUTLET. PROVIDE WITH BARRIER TYPE TRAP SEAL DEVICE EQUAL TO PROSET "TRAPGUARD".
RD-1	WATTS #RD-100-B-D-F-K J.R. SMITH MIFAB ZURN	ROOF	ROOF DRAIN: EPOXY COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL STOP, BEARING PAN, DUCTILE IRON LOCKING DOME, AND SOLID BODY EXTENSIONS AS REQUIRED FOR INSULATION THICKNESS. REFER TO THE PLUMBING PLANS FOR PIPE SIZES OF OUTLETS. REFER TO ROOF DRAIN DETAILS ON ARCHITECTURAL DRAWINGS.
ORD-1	WATTS #RD-100-B-D-F-K-R J.R. SMITH MIFAB ZURN	ROOF	SAME AS RD-1 EXCEPT PROVIDE WITH 2" HIGH EXTERNAL WATER DAM.
SDO-1	WATTS #RD-940 J.R. SMITH MIFAB ZURN	EXTERIOR WALL	SECONDARY DRAIN OUTLET (DOWNSPOUT NOZZLE): NICKEL BRONZE BODY, PUSH-ON OR NO-HUB CONNECTION, AND DECORATIVE FACE OF WALL FLANGE AT OUTLET NOZZLE. INSTALL AT MINIMUM 12" ABOVE GRADE. PROVIDE SPLASHBLOCK UNDER ALL NOZZLES THAT DISCHARGE OVER GRASSY AREAS.

CLEANOUT SCHEDULE

PLAN MARK	MAKE/MODEL	LOCATION	REMARKS
DCO-1	WATTS #CO-200-RX-4 J.R. SMITH ZURN	EXTERIOR	DOUBLE EXTERIOR CLEANOUT: EPOXY COATED CAST IRON BODY WITH ROUND ADJUSTABLE GASKETED EXTRA HEAVY DUTY DUCTILE IRON TOP AND BRASS PLUG WITH GASKET.
FCO-1	WATTS #CO-200-R J.R. SMITH ZURN	FINISHED AREAS	FLOOR CLEANOUT: EPOXY COATED CAST IRON BODY WITH ROUND ADJUSTABLE NICKEL BRONZE COVER, ANCHOR FLANGE, AND PLUG WITH GASKET.
WCO-1	WATTS J.R. SMITH ZURN	FINISHED AREAS	WALL CLEANOUT: CAST IRON FERRULE WITH TAPERED BRONZE COUNTERSUNK PLUG: WATTS #CO-460. 9" SQUARE STAINLESS STEEL SECURED SMOOTH ACCESS COVER WITH NICKEL BRONZE FRAME: WATTS #CO-300-S. PROVIDE ON WASTE LINE OF ALL SINKS AND LAVATORIES, SAME SIZE AS WASTE LINE.

FLOW SPLITTER VALVE SCHEDULE

PLAN MARK	DESCRIPTION AND REMARKS
FSV-1	FLOW SPLITTER VALVE: ONE PIECE BRASS BODY DYNAMIC FLOW SPLITTER HAVING VENTURI PRINCIPLE INTERNALS TO ALLOW MAJORITY OF CIRCULATED FLOW IN FULL SIZE PASS THROUGH WHILE DIVERTING SOME FLOW TO FIXTURE LOOP. LEAD FREE CONSTRUCTION AND APPROVED FOR POTABLE WATER APPLICATIONS (NSF/ANSI 61, NSF/ANSI 372). ACCEPTABLE MANUFACTURERS: KEMPER KHS #6510602500 FOR 1" HW SUPPLY MAIN. NOTES/ACCESSORIES: PROVIDE WITH OPTIONAL STOP VALVES. FLOW SPLITTER SHALL MATCH MAIN HW SUPPLY SIZE PER MODEL NUMBER ABOVE. BRANCH LOOP PIPING SHALL BE 3/4". INSTALL PER IECC TABLE C404.5.1 MAXIMUM ALLOWABLE PIPING LENGTHS FROM NEAREST SOURCE OF HEATED WATER TO TERMINATION OF FIXTURE SUPPLY PIPE. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
FSV-2	FLOW SPLITTER VALVE: ONE PIECE BRASS BODY DYNAMIC FLOW SPLITTER HAVING VENTURI PRINCIPLE INTERNALS TO ALLOW MAJORITY OF CIRCULATED FLOW IN FULL SIZE PASS THROUGH WHILE DIVERTING SOME FLOW TO FIXTURE LOOP. LEAD FREE CONSTRUCTION AND APPROVED FOR POTABLE WATER APPLICATIONS (NSF/ANSI 61, NSF/ANSI 372). ACCEPTABLE MANUFACTURERS: KEMPER KHS #6510605000 FOR 2" HW SUPPLY MAIN. NOTES/ACCESSORIES: PROVIDE WITH OPTIONAL STOP VALVES. FLOW SPLITTER SHALL MATCH MAIN HW SUPPLY SIZE PER MODEL NUMBER ABOVE. BRANCH LOOP PIPING SHALL BE 3/4". INSTALL PER IECC TABLE C404.5.1 MAXIMUM ALLOWABLE PIPING LENGTHS FROM NEAREST SOURCE OF HEATED WATER TO TERMINATION OF FIXTURE SUPPLY PIPE. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

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Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St.
Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	RC
DRAWN:	RC
REVIEWED:	WR

SHEET TITLE:
SCHEDULES

SHEET NUMBER:
P6.2

PROJECT NO.: 0240781.001

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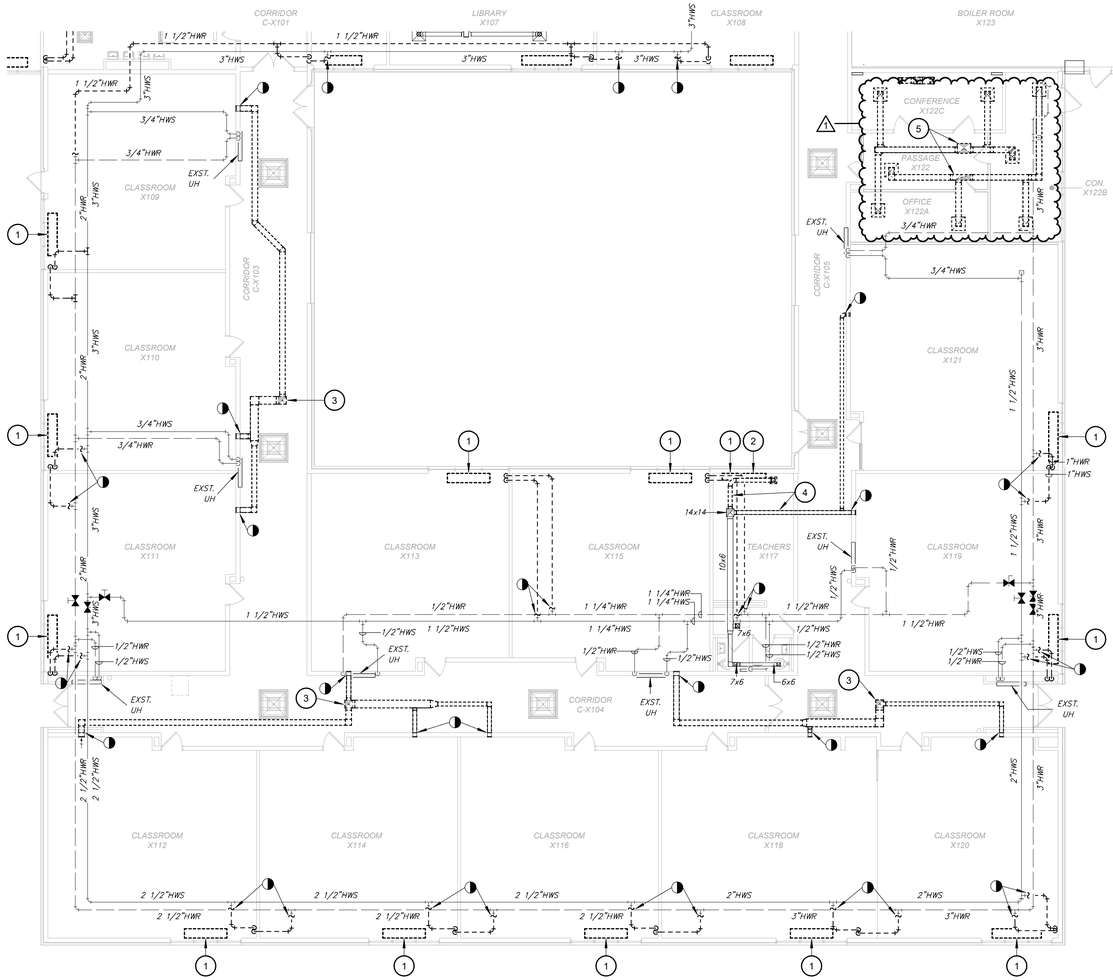


GENERAL NOTES

A. THE CONTRACTOR SHALL REMOVE EXISTING ACOUSTIC CEILING TILES AND GRID AS REQUIRED TO ALLOW RE-INSULATION OF EXISTING PIPING AND INSTALLATION OF NEW DUCTWORK. ALL REMOVED TILES SHALLBE STORED ON SITE AND PROTECTED FROM DAMAGE DURING CONSTRUCTION. ACOUSTICAL CEILING SHALL BE REINSTALLED AFTER COMPLETION OF MECHANICAL WORK. REPLACE ANY CEILING TILES AND GRID DAMAGED DURING REMOVAL OR RE-INSTALLATION. REPLACEMENT TILES AND GRID...

B. SOME DUCTWORK IS SHOWN IN SCHEMATIC FORM. NOT ALL DUCT RISERS AND DROPS ARE SHOWN. CONTRACTOR SHALL PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES, EXISTING STRUCTURE, AND OTHER EXISTING CONDITIONS. EXACT LOCATION OF DUCTWORK MAY VARY ACCORDING TO THE COORDINATED SPACE REQUIREMENTS. EACH TRADE SHALL BE TOTALLY RESPONSIBLE FOR COORDINATION WITH OTHER TRADES.

C. BRANCH DUCT RUNOUTS TO AIR DEVICES ARE SAME SIZE AS AIR DEVICE NECK UNLESS NOTED OTHERWISE.

D. PRIOR TO ORDERING ANY EQUIPMENT OR FABRICATION OF DUCTWORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE SITE AND MAKE...

E. CLEARNCES FOR DUCTWORK TO BUILDING MEMBERS, PLUMBING PIPING, RECESSED LIGHT FIXTURES, SPRINKLER PIPING, ETC. MAY BE VERY TIGHT. COORDINATE CAREFULLY BEFORE FABRICATING ANY PIPING OR DUCTWORK.

F. WHERE CUTTING IS REQUIRED, PATCH FLOORS, WALLS, CEILINGS, ETC. TO MATCH EXISTING CONDITIONS.

G. ALL EXISTING WATER PIPING, VALVING, EQUIPMENT, ETC. SHOWN ARE TO REMAIN, UNLESS SHOWN OR NOTED OTHERWISE.

H. ALL PIPING IS SHOWN ON THE DRAWING IN SCHEMATIC FORM FOR CLARITY. ACTUAL ROUTING MAY VARY.

I. IF IT IS NECESSARY TO REMOVE EXISTING INSULATION FROM HEATING HOT WATER LINES SERVING HEATING/COOLING EQUIPMENT FOR NEW WORK, RE-INSULATE HEATING HOT WATER LINES USING 1" THICK ELASTOMERIC INSULATION WITH VAPOR...

J. VERIFY EXACT SIZE AND LOCATION OF HWS/HWR PIPING, VALVES, EQUIPMENT, ETC. PRIOR TO CONSTRUCTION.

K. CONNECTIONS TO AND SHUTDOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER TO ALLOW MINIMUM INTERFERENCE WITH OWNERS OPERATION AND DOWNTIME OF EXISTING SERVICE. CONTRACTOR SHALL SUBMIT THE PROPSED PHASING PLAN OF WORK TO OWNER FOR REVIEW AND APPROVAL.

L. CONTRACTOR SHALL COMPLY WITH GENERAL CONDITIONS AND PROTECTION PROVISIONS SPECIFIED FOR JOINT OWNER/CONTRACTOR OCCUPANCY WORK AREAS.

M. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE BEGINNING WORK. CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY EXISTING UTILITIES AND SERVICES DAMAGED SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER. CONTRACTORS SHALL TEMPORARILY MOVE OR TAKE EQUIPMENT OUT OF SERVICE AS NECESSARY TO COMPLETE WORK. SUCH EQUIPMENT SHALL BE RESTORED TO SERVICE MATCHING EXISTING...

KEYNOTES (#)

1 DEMO EXISTING UNIT VENTILATOR AND ASSOCIATED BRANCH HWS/R PIPING BACK TO NEAREST MAIN.

2 REMOVE EXISTING WALL-MOUNTED DUCTLESS SPLIT UNIT. DEMO ASSOCIATED REFRIGERANT AND CONDENSATE PIPING. RELINQUISH UNIT TO OWNER.

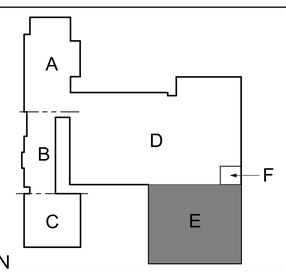
3 REMOVE EXHAUST AIR DUCT BACK TO ROOF OPENING. PREPARE ROOF OPENING FOR NEW CONNECTION. CAP WALL PENETRATIONS INTO CLASSROOMS.

4 REMOVE EXHAUST AIR DUCTWORK BACK TO LOCATION SHOWN. CAP DUCTWORK AT MAIN.

5 REMOVE SUPPLY AND RETURN AIR DUCTWORK BACK TO ROOF PENETRATION. PREPARE ROOF PENETATRION FOR NEW ROOFTOP UNIT.

1 ENLARGED MECHANICAL DEMOLITION PLAN - AREA E
SCALE: 3/32" = 1'-0"

0 4 8 16



KEY PLAN
SCALE: NO SCALE

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REVIEWED:	DRR

SHEET TITLE:
ENLARGED MECHANICAL DEMOLITION PLAN - AREA E

SHEET NUMBER:
MD1.1E

PROJECT NO.: 02401781.001

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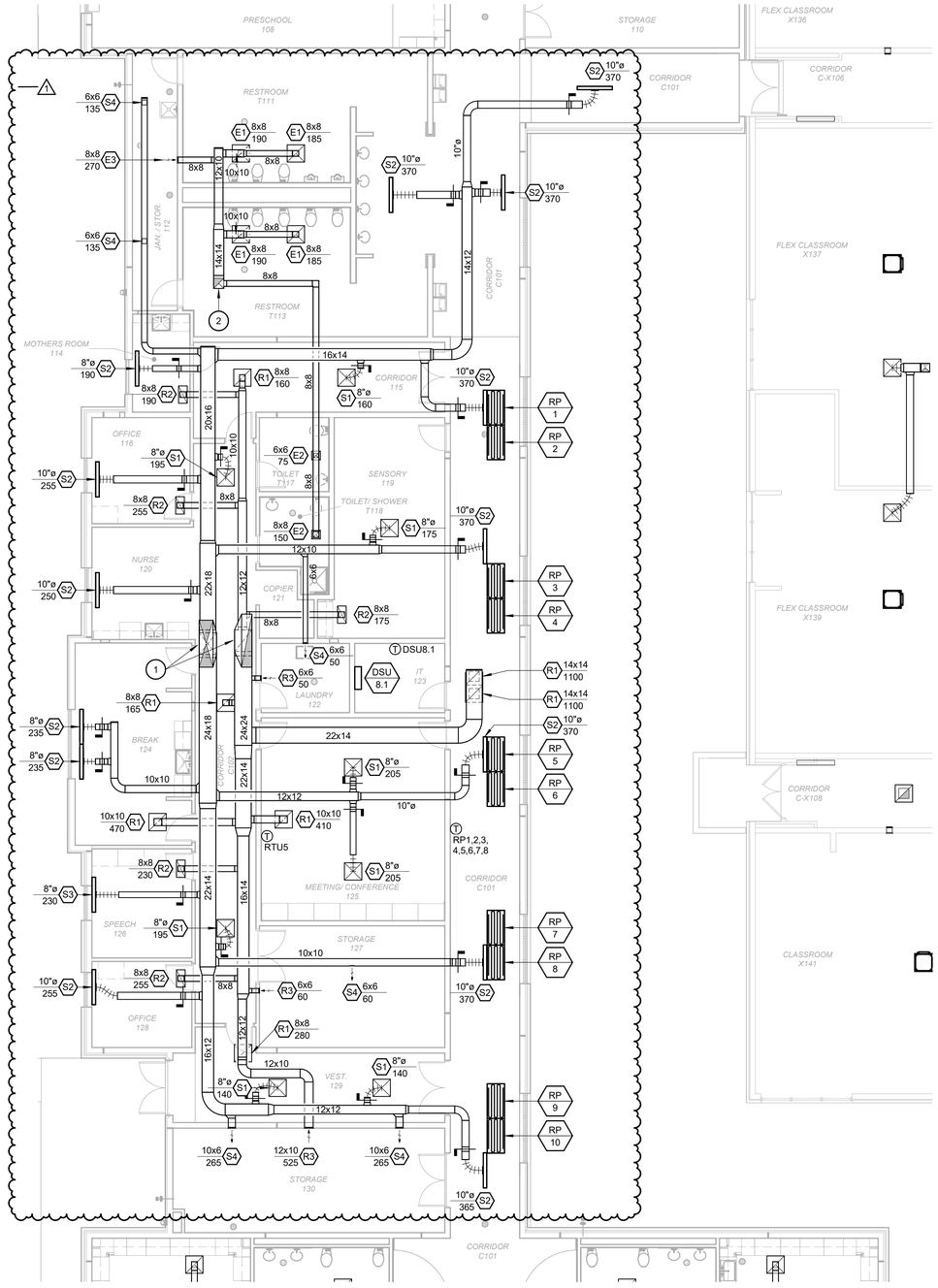

GENERAL NOTES

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B. SOME DUCTWORK IS SHOWN IN SCHEMATIC FORM. NOT ALL DUCT RISERS AND DROPS ARE SHOWN. CONTRACTOR SHALL PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES, EXISTING STRUCTURE, AND OTHER EXISTING CONDITIONS. EXACT LOCATION OF DUCTWORK MAY VARY ACCORDING TO THE COORDINATED SPACE REQUIREMENTS. EACH TRADE...

C. BRANCH DUCT RUNOUTS TO AIR DEVICES ARE SAME SIZE AS AIR DEVICE NECK UNLESS NOTED OTHERWISE.

D. DIFFUSER, GRILLE, AND REGISTER LOCATIONS SHALL BE COORDINATED WITH LOCATIONS OF EXISTING LIGHTS, EXIT LIGHTS, ETC. DIFFUSER LOCATION MAY VARY TO AVOID EXISTING CEILING EQUIPMENT AND DEVICES.

E. ALL DUCTWORK SHALL BE SHEET METAL, CONSTRUCTED OF GALVANIZED STEEL (UNLESS INDICATED OTHERWISE), IN ACCORDANCE WITHE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS. SUPPORT NEW DUCTWORK AND FANS FROM STRUCTURE PER SMACNA REQUIREMENTS.

F. PROVIDE MANUAL BALANCING VOLUME DAMPER AT ALL BRANCH DUCTS AND AT ALL OTHER LOCATIONS REQUIRES FOR A COMPLETE AND BALANCEABLE AIR...

G. BALANCE ENTIRE AIR DISTRIBUTION SYSTEM INCLUDING NEW EXHAUST FANS TO DESIGN FLOW RATE S INDICATED ON THE DRAWINGS.

H. ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH FIBERGLASS DUCT INSULATION AS INDICATED IN THE SPECIFICATION.

I. PROVIDE SLEEVE THROUGH WALLS AND SEALANT IN THE ANNULAR SPACE FOR DUCTS PASSING THROUGH WALL, IN ACCORDANCE WITH THE SPECIFICATIONS.

J. WALL THERMOSTAT SHALL BE 4'-0" ABOVE FLOOR, UNLESS NOTED OTHERWISE.

K. FIRE DAMPER WITH ACCESS DOOR SHALL BE INSTALLED AS REQUIRED IN ALL DUCTS PENETRATING FIRE RATED WALLS. ACCESS DOORS SHALL BE LARGE ENOUGH TO PERFORM INSPECTION AND MAINTENANCE OF FUSIBLE LINKS.

L. PRIOR TO ORDERING ANY EQUIPMENT OR FABRICATION OF DUCTWORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE SITE AND MAKE...

M. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SIZE, QUANTITY, AND LOCATION OF ALL OPENINGS NEEDED FOR DUCT AND PIPE PENETRATION THROUGH WALLS, FLOORS, AND ROOF.

N. CLEARNCES FOR DUCTWORK TO BUILDING MEMBERS, PLUMBING PIPING, RECESSED LIGHT FIXTURES, SPRINKLER PIPING, ETC. MAY BE VERY TIGHT. COORDINATE CAREFULLY BEFORE FABRICATING ANY PIPING OR DUCTWORK.

O. WHERE CUTTING IS REQUIRED, PATCH FLOORS, WALLS, CEILINGS, ETC. TO MATCH EXISTING CONDITIONS.

P. ALL NEW TOILET EXHAUST FANS SHALL BE INTERLOCKED RESPECTIVELY WITH NEW ROOFTOP UNITS.

KEYNOTES (#)

1 30x24 SUPPLY/RETURN AIR DUCT UP TO ROOFTOP UNIT RTU5.

2 14x14 EXHAUST AIR DUCT UP TO ROOF EXAHUST FAN EF3.

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ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
2025.04.03

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	TMG/GPF
DRAWN:	GPF
REVIEWED:	DRR

SHEET TITLE:

ENLARGED VENTILATION FLOOR PLAN - AREA B

SHEET NUMBER:

M1.1B

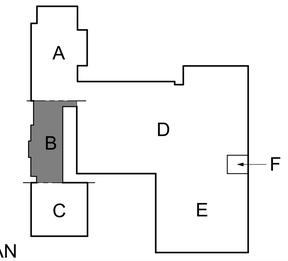
PROJECT NO.: 02401781.001

1 **ENLARGED VENTILATION FLOOR PLAN - AREA B**
SCALE: 1/8" = 1'-0"

0 4 8 16

TRUE NORTH

KEY PLAN
SCALE: NO SCALE



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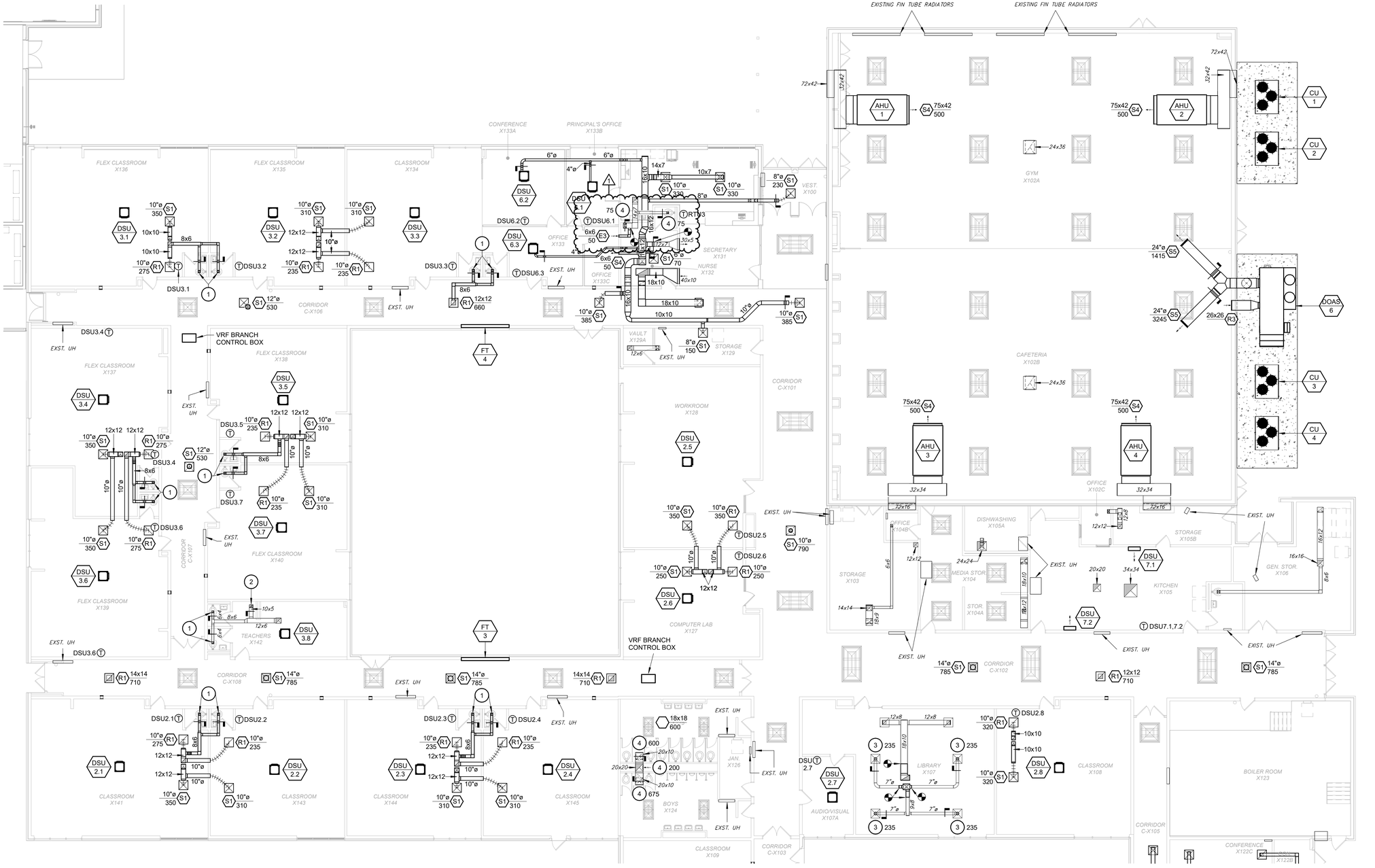

1 ENLARGED VENTILATION FLOOR PLAN - AREA D

SCALE: 3/32" = 1'-0"

0 4 8 16

TRUE NORTH

GENERAL NOTES

A. THE CONTRACTOR SHALL REMOVE EXISTING ACOUSTIC CEILING TILES AND GRID AS REQUIRED TO ALLOW INSTALLATION OF NEW PIPING AND DUCTWORK. ALL REMOVED TILES SHALLBE STORED ON SITE AND PROTECTED FROM DAMAGE DURING CONSTRUCTION. ACOUSTICAL CEILING SHALL BE REINSTALLED AFTER COMPLETION OF MECHANICAL WORK. REPLACE ANY CEILING TILES AND GRID DAMAGED DURING...

B. SOME DUCTWORK IS SHOWN IN SCHEMATIC FORM. NOT ALL DUCT RISERS AND DROPS ARE SHOWN. CONTRACTOR SHALL PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES, EXISTING STRUCTURE, AND OTHER EXISTING CONDITIONS. EXACT LOCATION OF DUCTWORK MAY VARY ACCORDING TO THE COORDINATED SPACE REQUIREMENTS. EACH TRADE...

C. BRANCH DUCT RUNOUTS TO AIR DEVICES ARE SAME SIZE AS AIR DEVICE NECK UNLESS NOTED OTHERWISE.

D. DIFFUSER, GRILLE, AND REGISTER LOCATIONS SHALL BE COORDINATED WITH LOCATIONS OF EXISTING LIGHTS, EXIT LIGHTS, ETC. DIFFUSER LOCATION MAY VARY TO AVOID EXISTING CEILING EQUIPMENT AND DEVICES.

E. ALL DUCTWORK SHALL BE SHEET METAL, CONSTRUCTED OF GALVANIZED STEEL (UNLESS INDICATED OTHERWISE), IN ACCORDANCE WITHE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS. SUPPORT NEW DUCTWORK AND FANS FROM STRUCTURE PER SMACNA REQUIREMENTS.

GENERAL NOTES

F. PROVIDE MANUAL BALANCING VOLUME DAMPER AT ALL BRANCH DUCTS AND AT ALL OTHER LOCATIONS REQUIRES FOR A COMPLETE AND BALANCEABLE AIR...

G. BALANCE ENTIRE AIR DISTRIBUTION SYSTEM INCLUDING NEW EXHAUST FANS TO DESIGN FLOW RATE S INDICATED ON THE DRAWINGS.

H. ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH FIBERGLASS DUCT INSULATION AS INDICATED IN THE SPECIFICATION.

I. PROVIDE SLEEVE THROUGH WALLS AND SEALANT IN THE ANNULAR SPACE FOR DUCTS PASSING THROUGH WALL, IN ACCORDANCE WITH THE SPECIFICATIONS.

J. WALL THERMOSTAT SHALL BE 4'-0" ABOVE FLOOR, UNLESS NOTED OTHERWISE.

K. FIRE DAMPER WITH ACCESS DOOR SHALL BE INSTALLED AS REQUIRED IN ALL DUCTS PENETRATING FIRE RATED WALLS. ACCESS DOORS SHALL BE LARGE ENOUGH TO PERFORM INSPECTION AND MAINTENANCE OF FUSIBLE LINKS.

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GENERAL NOTES

N. CLEARNCES FOR DUCTWORK TO BUILDING MEMBERS, PLUMBING PIPING, RECESSED LIGHT FIXTURES, SPRINKLER PIPING, ETC. MAY BE VERY TIGHT. COORDINATE CAREFULLY BEFORE FABRICATING ANY PIPING OR DUCTWORK.

O. WHERE CUTTING IS REQUIRED, PATCH FLOORS, WALLS, CEILINGS, ETC. TO MATCH EXISTING CONDITIONS.

P. ALL NEW TOILET EXHAUST FANS SHALL BE INTERLOCKED RESPECTIVELY WITH NEW ROOFTOP UNITS.

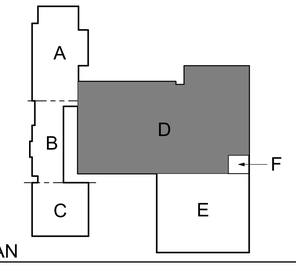
KEYNOTES (#)

1 RECONNECT NEW DUCTWORK TO EXISTING EXHAUST DIFFUSERS. INSTALL VOLUME DAMPERS IF NONE ARE PRESENT. BALANCE TO 75 CFM EACH.

2 RECONNECT NEW DUCTWORK TO EXISTING EXHAUST DIFFUSER. INSTALL VOLUME DAMPER IF NONE IS PRESENT. BALANCE TO 180 CFM EACH.

3 REBALANCE EXISTING SUPPLY AIR DIFFUSER TO CFM SHOWN. INSTALL NEW VOLUME DAMPER IF NONE IS PRESENT.

4 REBALANCE EXISTING SUPPLY AIR DIFFUSER TO CFM SHOWN. INSTALL NEW VOLUME DAMPER IF NONE IS PRESENT.



KEY PLAN

SCALE: NO SCALE

TRUE NORTH

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PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

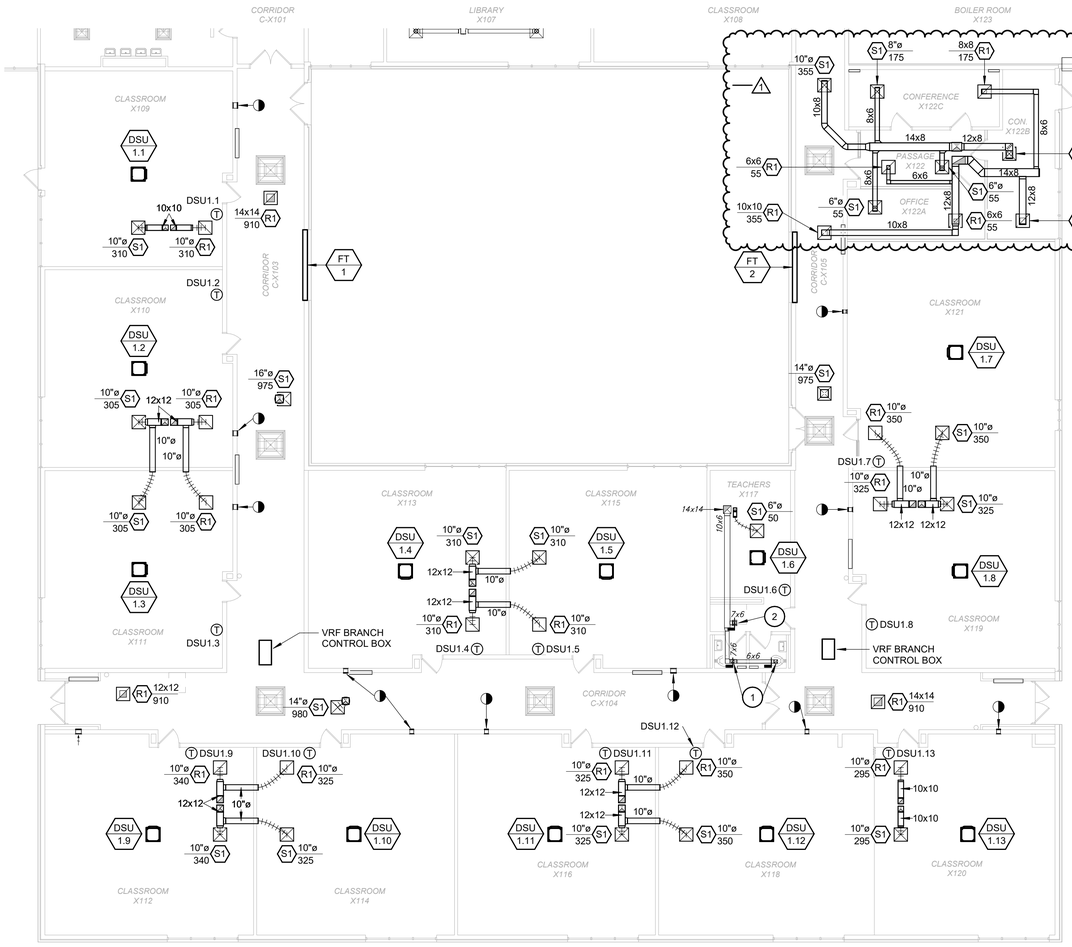
DATE:	04/03/2025
DESIGNED:	TMG/GPF
DRAWN:	GPF
REVIEWED:	DRR

SHEET TITLE:
ENLARGED VENTILATION FLOOR PLAN - AREA D

SHEET NUMBER:
M1.1D

PROJECT NO.: 02401781.001

4/17/2025 12:01:19 PM



GENERAL NOTES

A. THE CONTRACTOR SHALL REMOVE EXISTING ACOUSTIC CEILING TILES AND GRID AS REQUIRED TO ALLOW INSTALLATION OF NEW PIPING AND DUCTWORK. ALL REMOVED TILES SHALLBE STORED ON SITE AND PROTECTED FROM DAMAGE DURING CONSTRUCTION. ACOUSTICAL CEILING SHALL BE REINSTALLED AFTER COMPLETION OF MECHANICAL WORK. REPLACE ANY CEILING TILES AND GRID DAMAGED DURING...

B. SOME DUCTWORK IS SHOWN IN SCHEMATIC FORM. NOT ALL DUCT RISERS AND DROPS ARE SHOWN. CONTRACTOR SHALL PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES, EXISTING STRUCTURE, AND OTHER EXISTING CONDITIONS. EXACT LOCATION OF DUCTWORK MAY VARY ACCORDING TO THE COORDINATED SPACE REQUIREMENTS. EACH TRADE...

C. BRANCH DUCT RUNOUTS TO AIR DEVICES ARE SAME SIZE AS AIR DEVICE NECK UNLESS NOTED OTHERWISE.

D. DIFFUSER, GRILLE, AND REGISTER LOCATIONS SHALL BE COORDINATED WITH LOCATIONS OF EXISTING LIGHTS, EXIT LIGHTS, ETC. DIFFUSER LOCATION MAY VARY TO AVOID EXISTING CEILING EQUIPMENT AND DEVICES.

E. ALL DUCTWORK SHALL BE SHEET METAL, CONSTRUCTED OF GALVANIZED STEEL (UNLESS INDICATED OTHERWISE), IN ACCORDANCE WITHE SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS. SUPPORT NEW DUCTWORK AND FANS FROM STRUCTURE PER SMACNA REQUIREMENTS.

F. PROVIDE MANUAL BALANCING VOLUME DAMPER AT ALL BRANCH DUCTS AND AT ALL OTHER LOCATIONS REQUIRES FOR A COMPLETE AND BALANCEABLE AIR...

G. BALANCE ENTIRE AIR DISTRIBUTION SYSTEM INCLUDING NEW EXHAUST FANS TO DESIGN FLOW RATE S INDICATED ON THE DRAWINGS.

H. ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE EXTERNALLY INSULATED WITH FIBERGLASS DUCT INSULATION AS INDICATED IN THE SPECIFICATION.

I. PROVIDE SLEEVE THROUGH WALLS AND SEALANT IN THE ANNULAR SPACE FOR DUCTS PASSING THROUGH WALL, IN ACCORDANCE WITH THE SPECIFICATIONS.

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L. PRIOR TO ORDERING ANY EQUIPMENT OR FABRICATION OF DUCTWORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE SITE AND MAKE...

M. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SIZE, QUANTITY, AND LOCATION OF ALL OPENINGS NEEDED FOR DUCT AND PIPE PENETRATION THROUGH WALLS, FLOORS, AND ROOF.

N. CLEARNCES FOR DUCTWORK TO BUILDING MEMBERS, PLUMBING PIPING, RECESSED LIGHT FIXTURES, SPRINKLER PIPING, ETC. MAY BE VERY TIGHT. COORDINATE CAREFULLY BEFORE FABRICATING ANY PIPING OR DUCTWORK.

O. WHERE CUTTING IS REQUIRED, PATCH FLOORS, WALLS, CEILINGS, ETC. TO MATCH EXISTING CONDITIONS.

P. ALL NEW TOILET EXHAUST FANS SHALL BE INTERLOCKED RESPECTIVELY WITH NEW ROOFTOP UNITS.

KEYNOTES (#)

1 RECONNECT NEW DUCTWORK TO EXISTING EXHAUST DIFFUSERS. INSTALL VOLUME DAMPERS IF NONE ARE PRESENT. BALANCE TO 75 CFM EACH.

2 RECONNECT NEW DUCTWORK TO EXISTING EXHAUST DIFFUSERS. INSTALL VOLUME DAMPERS IF NONE ARE PRESENT. BALANCE TO 75 CFM EACH.

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ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
2025.04.03

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	TMG/GPF
DRAWN:	GPF
REVIEWED:	DRR

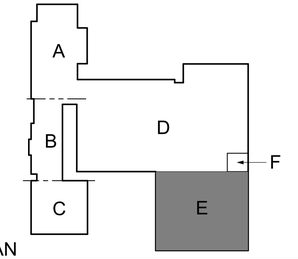
SHEET TITLE:
ENLARGED VENTILATION FLOOR PLAN - AREA E

SHEET NUMBER:
M1.1E

PROJECT NO.: 02401781.001

1 **ENLARGED VENTILATION FLOOR PLAN - AREA E**
SCALE: 3/32" = 1'-0"

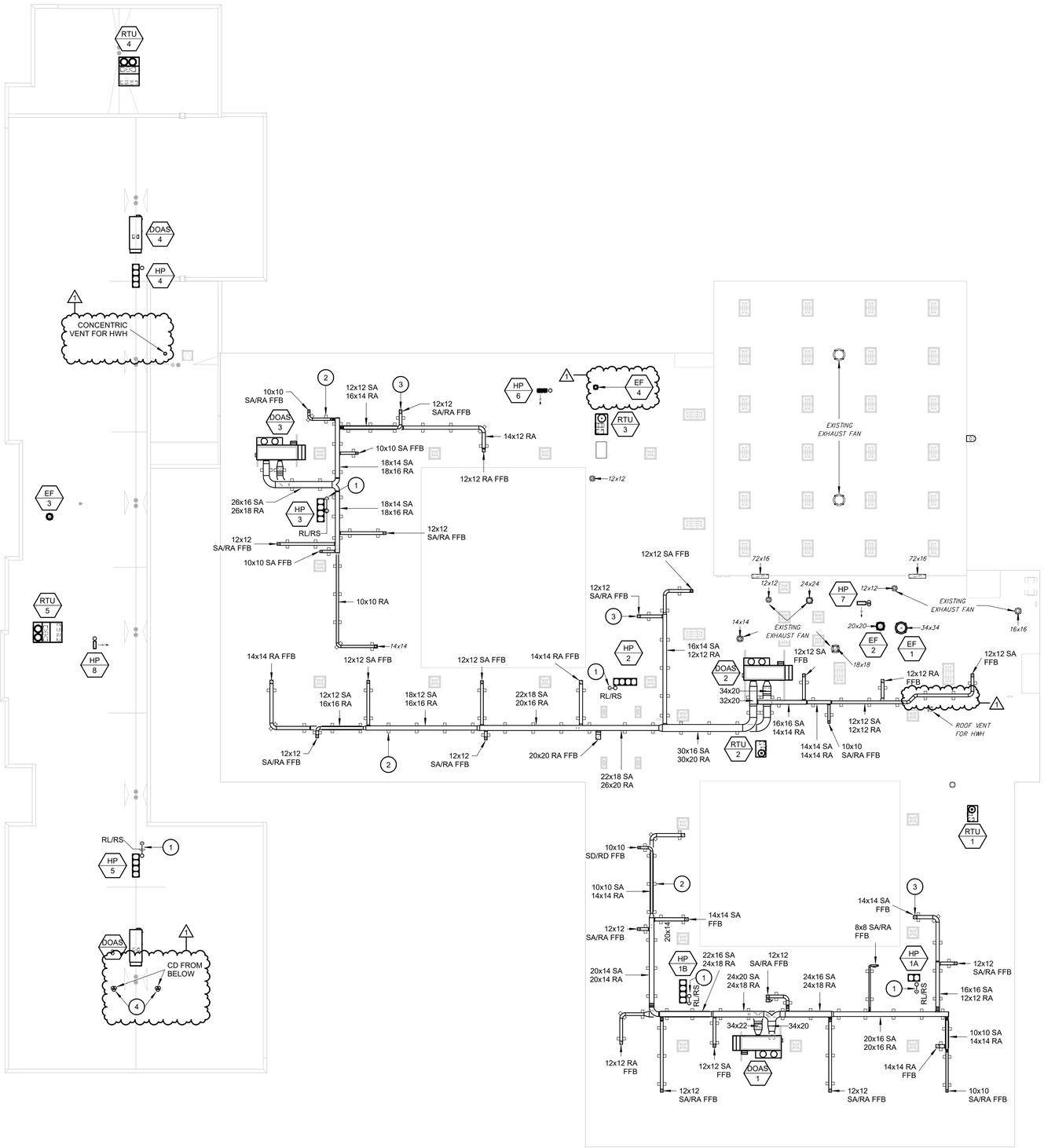
0 4 8 16



KEY PLAN
SCALE: NO SCALE

TRUE NORTH

4/17/2025 12:01:23 PM



GENERAL NOTES

A. ALL ROOFING WORK INCLUDING BUT NOT LIMITED TO CUTTING, PATCHING, FLASHING, AND OTHER SIMILAR WORK SHALL BE COMPLETED BY ORIGINAL INSTALLER OR ANOTHER RECOGNIZED EXPERIENCED AND SPECIALIZED FIRM AS REQUIRED TO MAINTAIN OWNERS EXISTING ROOF WARRANTY.

B. SOME DUCTWORK IS SHOWN IN SCHEMATIC FORM. NOT ALL DUCT RISERS AND DROPS ARE SHOWN. CONTRACTOR SHALL PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES, EXISTING STRUCTURE, AND OTHER EXISTING CONDITIONS. EXACT LOCATION OF DUCTWORK MAY VARY ACCORDING TO THE COORDINATED SPACE REQUIREMENTS. EACH TRADE SHALL BE TOTALLY RESPONSIBLE FOR COORDINATION WITH OTHER TRADES.

C. PRIOR TO ORDERING ANY EQUIPMENT OR FABRICATION OF DUCTWORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT THE SITE AND MAKE...

D. CLEARNCES FOR DUCTWORK TO BUILDING MEMBERS, PLUMBING PIPING, RECESSED LIGHT FIXTURES, SPRINKLER PIPING, ETC. MAY BE VERY TIGHT. COORDINATE CAREFULLY BEFORE FABRICATING ANY PIPING OR DUCTWORK.

E. ALL EXISTING EQUIPMENT, ETC. SHOWN ARE TO REMAIN, UNLESS SHOWN OR NOTED OTHERWISE.

F. VERIFY EXACT SIZE AND LOCATION OF EQUIPMENT, ETC. PRIOR TO CONSTRUCTION.

G. CONNECTIONS TO AND SHUTDOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER TO ALLOW MINIMUM INTERFERENCE WITH OWNERS OPERATION AND DOWNTIME OF EXISTING SERVICE. CONTRACTOR SHALL SUBMIT THE PROPSED PHASING PLAN OF WORK TO OWNER FOR REVIEW AND APPROVAL.

H. CONTRACTOR SHALL COMPLY WITH GENERAL CONDITIONS AND PROTECTION PROVISIONS SPECIFIED FOR JOINT OWNER/CONTRACTOR OCCUPANCY WORK AREAS.

I. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE BEGINNING WORK. CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY EXISTING UTILITIES AND SERVICES DAMAGED SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER. CONTRACTORS SHALL TEMPORARILY MOVE OR TAKE EQUIPMENT OUT OF SERVICE AS NECESSARY TO COMPLETE WORK. SUCH EQUIPMENT SHALL BE RESTORED TO SERVICE MATCHING EXISTING...

KEYNOTES (#)

1 PROVIDE REFRIGERANT PIPE ROOF SUPPORT. REFER TO PROJECT MANUAL FOR SPECIFICATION.

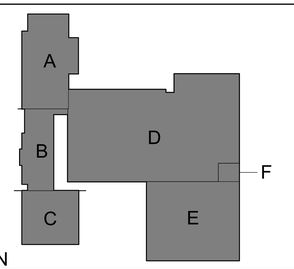
2 PROVIDE ROOF DUCT SUPPORTS. REFER TO DETAILS ON SHEET M5.2 FOR MORE INFORMATION. MAXIMUM SPACING AS SPECIFIED IN PROJECT MANUAL. TYPICAL FOR ALL.

3 SUPPLY AND/OR RETURN/EXHAUST DUCT DROPS DOWN THROUGH ROOF. SEE FIRST FLOOR PLAN FOR CONTINUATION. DUCT DROP SIZES AS NOTED.

4 INSTALL PIPE PORTAL STYLE ROOF CURB FOR CONDENSATE DRAIN PENETRATIONS THROUGH ROOF. REFER TO DEATIL #1 ON SHEET M5.2 FOR MORE INFORMATION. ABOVE ROOF ROUTE CONDENSATE DRAIN PIPING TO DRAIN INDIRECTLY TO CLOSEST ROOF DRAIN.

1 OVERALL ROOF MECHANICAL PLAN
SCALE: 1" = 20'-0"

0 10 20 40



KEY PLAN
SCALE: NO SCALE

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1	04/17/2025	ADD 01

Bid Set
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PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

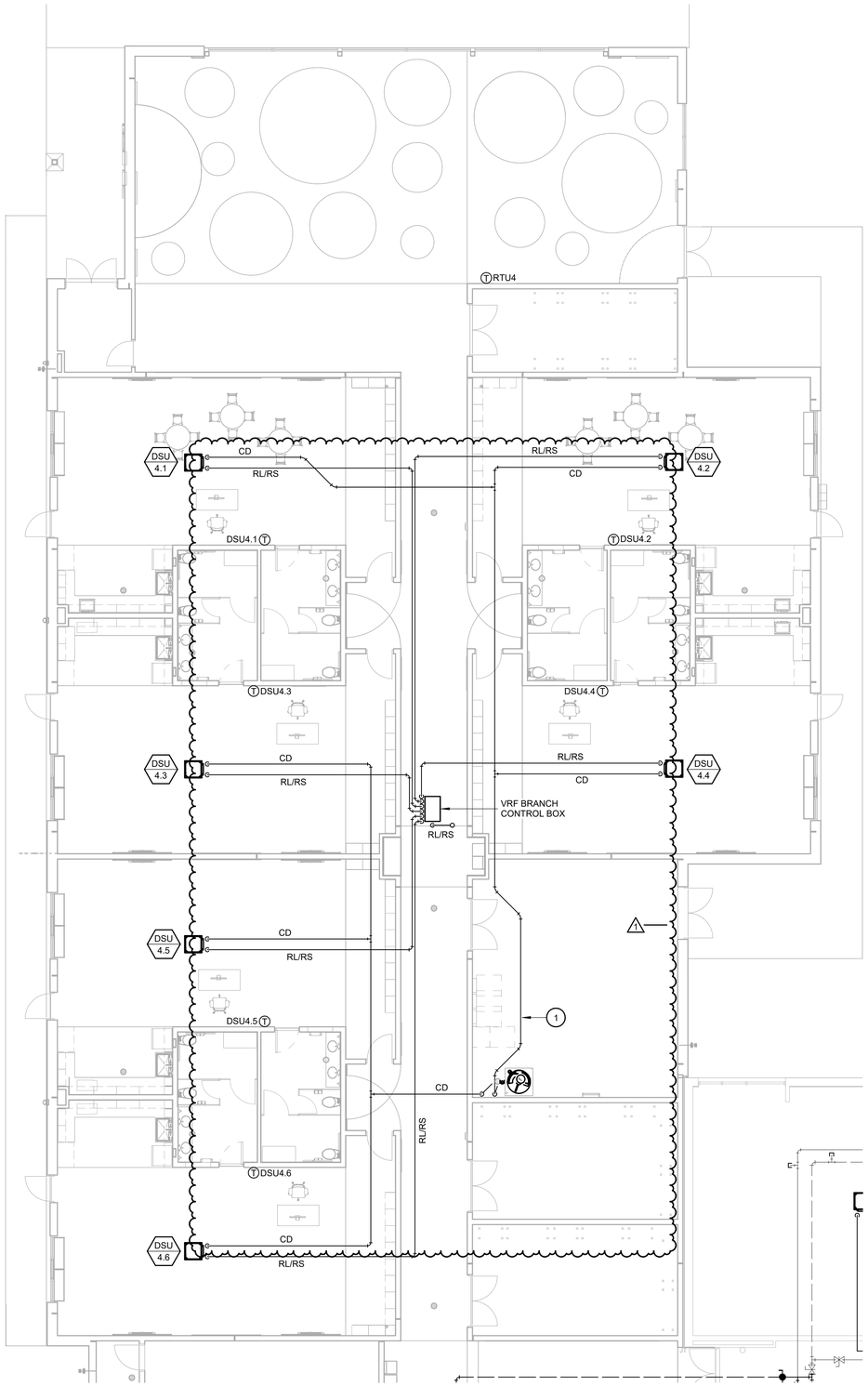
DATE:	04/03/2025
DESIGNED:	TMG/GPF
DRAWN:	GPF
REVIEWED:	DRR

SHEET TITLE:
OVERALL ROOF MECHANICAL PLAN

SHEET NUMBER:
M1.4

PROJECT NO.: 02401781.001

4/17/2025 12:01:23 PM



GENERAL NOTES

A. ALL EXISTING WATER PIPING, VALVING, EQUIPMENT, ETC. SHOWN ARE TO REMAIN, UNLESS SHOWN OR NOTED OTHERWISE.

B. ALL PIPING IS SHOWN ON THE DRAWING IN SCHEMATIC FORM FOR CLARITY. ACTUAL ROUTING MAY VARY.

C. IF IT IS NECESSARY TO REMOVE EXISTING INSULATION FROM HEATING HOT WATER LINES SERVING HEATING/COOLING EQUIPMENT FOR NEW WORK, RE-INSULATE HEATING HOT WATER LINES USING 1" THICK ELASTOMERIC INSULATION WITH VAPOR...

D. THE CONTRACTOR SHALL REMOVE EXISTING ACOUSTIC CEILING TILES AND GRID AS REQUIRED TO ALLOW INSTALLATION OF NEW PIPING AND DUCTWORK. ALL REMOVED TILES SHALLBE STORED ON SITE AND PROTECTED FROM DAMAGE DURING CONSTRUCTION. ACOUSTICAL CEILING SHALL BE REINSTALLED AFTER COMPLETION OF MECHANICAL WORK. REPLACE ANY CEILING TILES AND GRID DAMAGED DURING...

E. VERIFY EXACT SIZE AND LOCATION OF HWS/HWR PIPING, VALVES, EQUIPMENT, ETC. PRIOR TO CONSTRUCTION.

F. CONNECTIONS TO AND SHUTDOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER TO ALLOW MINIMUM INTERFERENCE WITH OWNERS OPERATION AND DOWNTIME OF EXISTING SERVICE. CONTRACTOR SHALL SUBMIT THE PROPSED PHASING PLAN OF WORK TO OWNER FOR REVIEW AND APPROVAL.

G. CONTRACTOR SHALL COMPLY WITH GENERAL CONDITIONS AND PROTECTION PROVISIONS SPECIFIED FOR JOINT OWNER/CONTRACTOR OCCUPANCY WORK AREAS.

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I. WIRING DIAGRAMS AND REFIRGERANT PIPE SIZES AND LENGTHS TO BE PROVIDED BY SELECTED VRF SYSTEM MANUFACTURER.

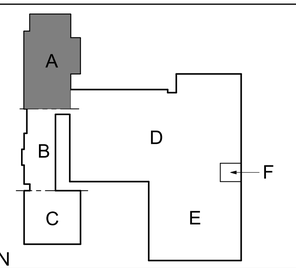
KEYNOTES (#)

1 ROUTE CONDENSATE DRAIN TO AVOID ELECTRICAL PANELS.

1 ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

0 4 8 16

TRUE NORTH



KEY PLAN
SCALE: NO SCALE

TRUE NORTH

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507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
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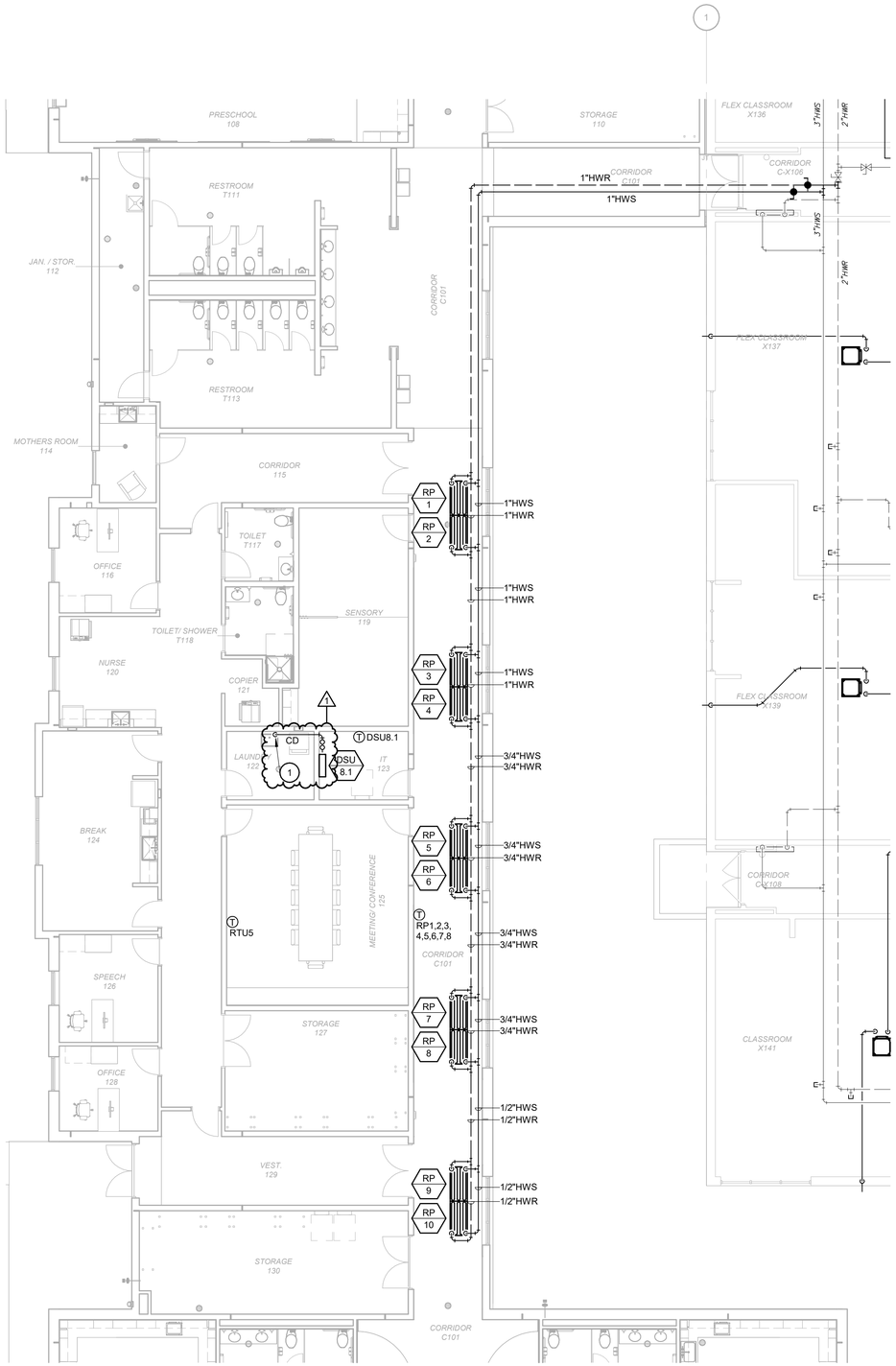
REVIEWED:	DRR

SHEET TITLE:
ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA A

SHEET NUMBER:
M2.1A

PROJECT NO.: 02401781.001

4/17/2025 12:01:23 PM



GENERAL NOTES

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I. WIRING DIAGRAMS AND REFIRGERANT PIPE SIZES AND LENGTHS TO BE PROVIDED BY SELECTED VRF SYSTEM MANUFACTURER.

KEYNOTES (#)

1 ROUTE CONDENSATE DRAIN FROM DSU8.1 TO DRAIN INDIRECTLY AT NEARBY LAUNDRY UTILITY SINK

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SHEET TITLE:
ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA B

SHEET NUMBER:
M2.1B

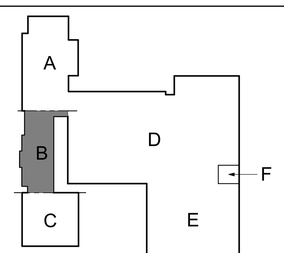
PROJECT NO.: 02401781.001

1 **ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA B**
SCALE: 1/8" = 1'-0"

0 4 8 16

TRUE NORTH

KEY PLAN
SCALE: NO SCALE



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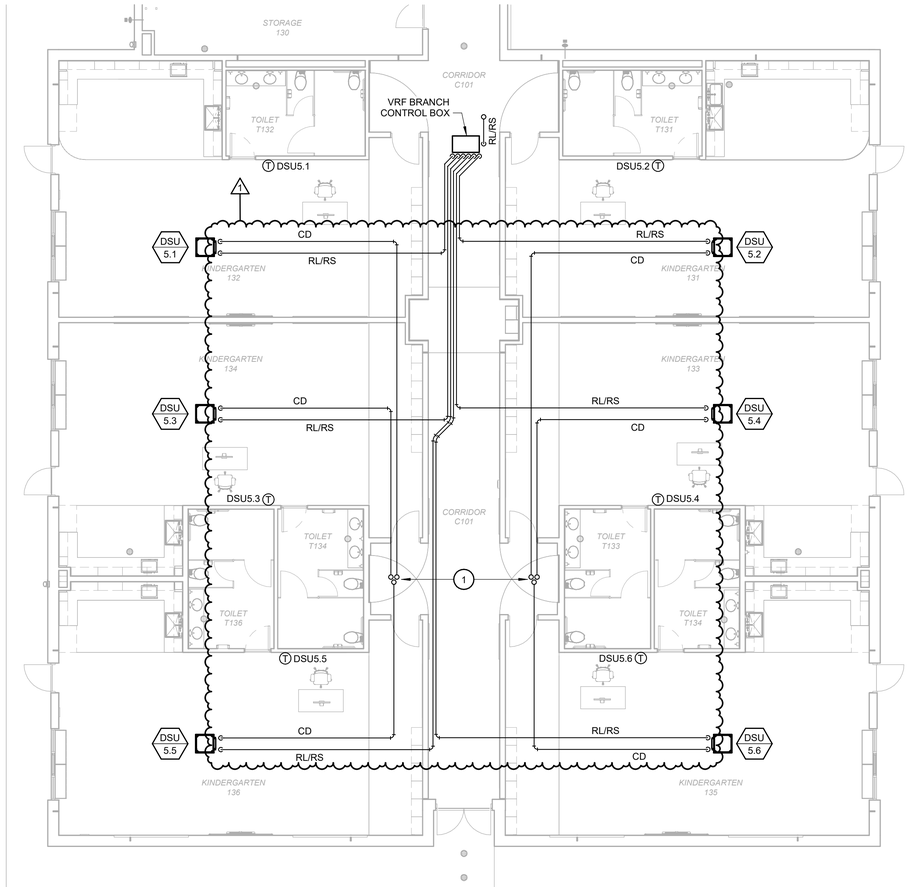

GENERAL NOTES

A. ALL EXISTING WATER PIPING, VALVING, EQUIPMENT, ETC. SHOWN ARE TO REMAIN, UNLESS SHOWN OR NOTED OTHERWISE.

B. ALL PIPING IS SHOWN ON THE DRAWING IN SCHEMATIC FORM FOR CLARITY. ACTUAL ROUTING MAY VARY.

C. IF IT IS NECESSARY TO REMOVE EXISTING INSULATION FROM HEATING HOT WATER LINES SERVING HEATING/COOLING EQUIPMENT FOR NEW WORK, RE-INSULATE HEATING HOT WATER LINES USING 1" THICK ELASTOMERIC INSULATION WITH VAPOR...

D. THE CONTRACTOR SHALL REMOVE EXISTING ACOUSTIC CEILING TILES AND GRID AS REQUIRED TO ALLOW INSTALLATION OF NEW PIPING AND DUCTWORK. ALL REMOVED TILES SHALLBE STORED ON SITE AND PROTECTED FROM DAMAGE DURING CONSTRUCTION. ACOUSTICAL CEILING SHALL BE REINSTALLED AFTER COMPLETION OF MECHANICAL WORK. REPLACE ANY CEILING TILES AND GRID DAMAGED DURING...

E. VERIFY EXACT SIZE AND LOCATION OF HWS/HWR PIPING, VALVES, EQUIPMENT, ETC. PRIOR TO CONSTRUCTION.

F. CONNECTIONS TO AND SHUTDOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER TO ALLOW MINIMUM INTERFERENCE WITH OWNERS OPERATION AND DOWNTIME OF EXISTING SERVICE. CONTRACTOR SHALL SUBMIT THE PROPSED PHASING PLAN OF WORK TO OWNER FOR REVIEW AND APPROVAL.

G. CONTRACTOR SHALL COMPLY WITH GENERAL CONDITIONS AND PROTECTION PROVISIONS SPECIFIED FOR JOINT OWNER/CONTRACTOR OCCUPANCY WORK AREAS.

H. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE BEGINNING WORK. CONTRACTOR SHALL PROTECT EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION. ANY EXISTING UTILITIES AND SERVICES DAMAGED SHALL BE REPAIRED AT NO EXPENSE TO THE OWNER. CONTRACTORS SHALL TEMPORARILY MOVE OR TAKE EQUIPMENT OUT OF SERVICE AS NECESSARY TO COMPLETE WORK. SUCH EQUIPMENT SHALL BE RESTORED TO SERVICE MATCHING EXISTING...

I. WIRING DIAGRAMS AND REFIRGERANT PIPE SIZES AND LENGTHS TO BE PROVIDED BY SELECTED VRF SYSTEM MANUFACTURER.

KEYNOTES (#)

1 CONDENSATE DRAIN PIPING ROUTED UP THROUGH ROOF. SEE SHEET M1.4 FOR CONTINUATION.

Farnsworth GROUP
2211 W. BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com
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Engineers | Architects | Surveyors | Scientists

ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
2025.04.03

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	TMG/GPF
DRAWN:	GPF
REVIEWED:	DRR

SHEET TITLE:

ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA C

SHEET NUMBER:

M2.1C

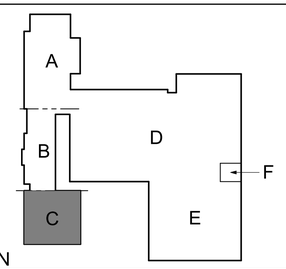
PROJECT NO.: 02401781.001

1 **ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA C**
SCALE: 1/8" = 1'-0"

0 4 8 16

TRUE NORTH

KEY PLAN
SCALE: NO SCALE



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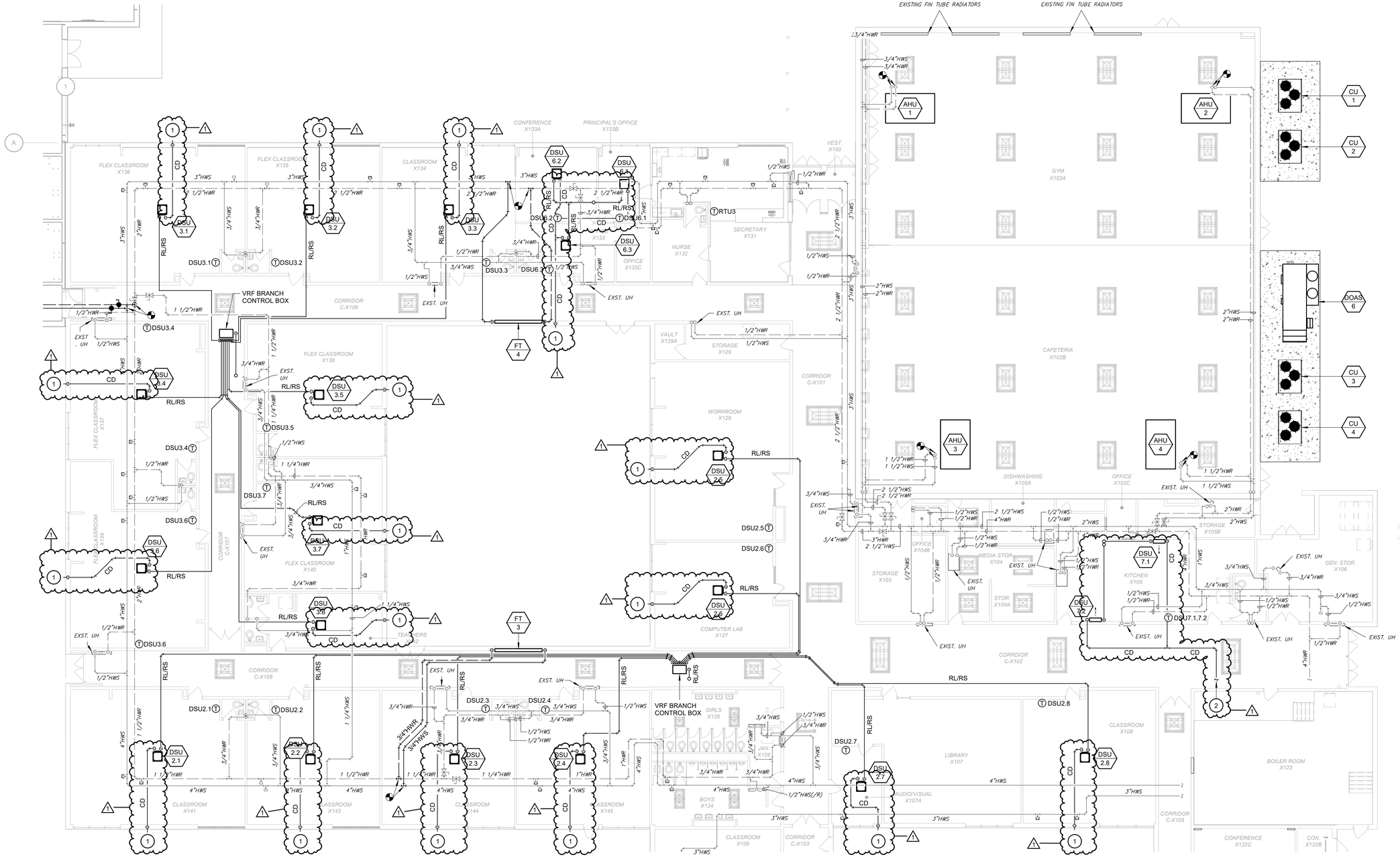

1 ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA D

SCALE: 3/32" = 1'-0"

0 4 8 16 TRUE NORTH

GENERAL NOTES

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C. IF IT IS NECESSARY TO REMOVE EXISTING INSULATION FROM HEATING HOT WATER LINES SERVING HEATING/COOLING EQUIPMENT FOR NEW WORK, RE-INSULATE HEATING HOT WATER LINES USING 1" THICK ELASTOMERIC INSULATION WITH VAPOR BARRIER.

D. THE CONTRACTOR SHALL REMOVE EXISTING ACOUSTIC CEILING TILES AND GRID AS REQUIRED TO ALLOW INSTALLATION OF NEW PIPING AND DUCTWORK. ALL REMOVED TILES SHALLBE STORED ON SITE AND PROTECTED FROM DAMAGE DURING CONSTRUCTION. ACOUSTICAL CEILING SHALL BE REINSTALLED AFTER COMPLETION OF MECHANICAL WORK. REPLACE ANY CEILING TILES AND GRID DAMAGED DURING REMOVAL OR RE-INSTALLATION. REPLACEMENT TILES AND GRID TO MATCH EXISTING.

E. VERIFY EXACT SIZE AND LOCATION OF HWS/HWR PIPING, VALVES, EQUIPMENT, ETC. PRIOR TO CONSTRUCTION.

GENERAL NOTES

F. CONNECTIONS TO AND SHUTDOWN OF EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER TO ALLOW MINIMUM INTERFERENCE WITH OWNERS OPERATION AND DOWNTIME OF EXISTING SERVICE. CONTRACTOR SHALL SUBMIT THE PROPSED PHASING PLAN OF WORK TO OWNER FOR REVIEW AND APPROVAL.

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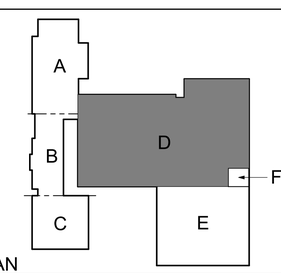
I. WIRING DIAGRAMS AND REFRIGERANT PIPE SIZES AND LENGTHS TO BE PROVIDED BY SELECTED VRF SYSTEM MANUFACTURER.

KEYNOTES (#)

1 ROUTE CONDENSATE DRAIN DOWN THROUGH EXTERIOR WALL AND DRAIN WITHIN 2 FT OF GRADE LEVEL.

2 ROUTE CONDENSATE DRAIN PIPING FROM DSU7.1 AND 7.2 TO NEAREST CONVENIENT FLOOR DRAIN WITHIN BOILER ROOM X123.



KEY PLAN

SCALE: NO SCALE

TRUE NORTH

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1	04/17/2025	ADD 01

Bid Set
2025.04.03

PROJECT:

Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	TMG/GPF
DRAWN:	GPF
REVIEWED:	DRR

SHEET TITLE:

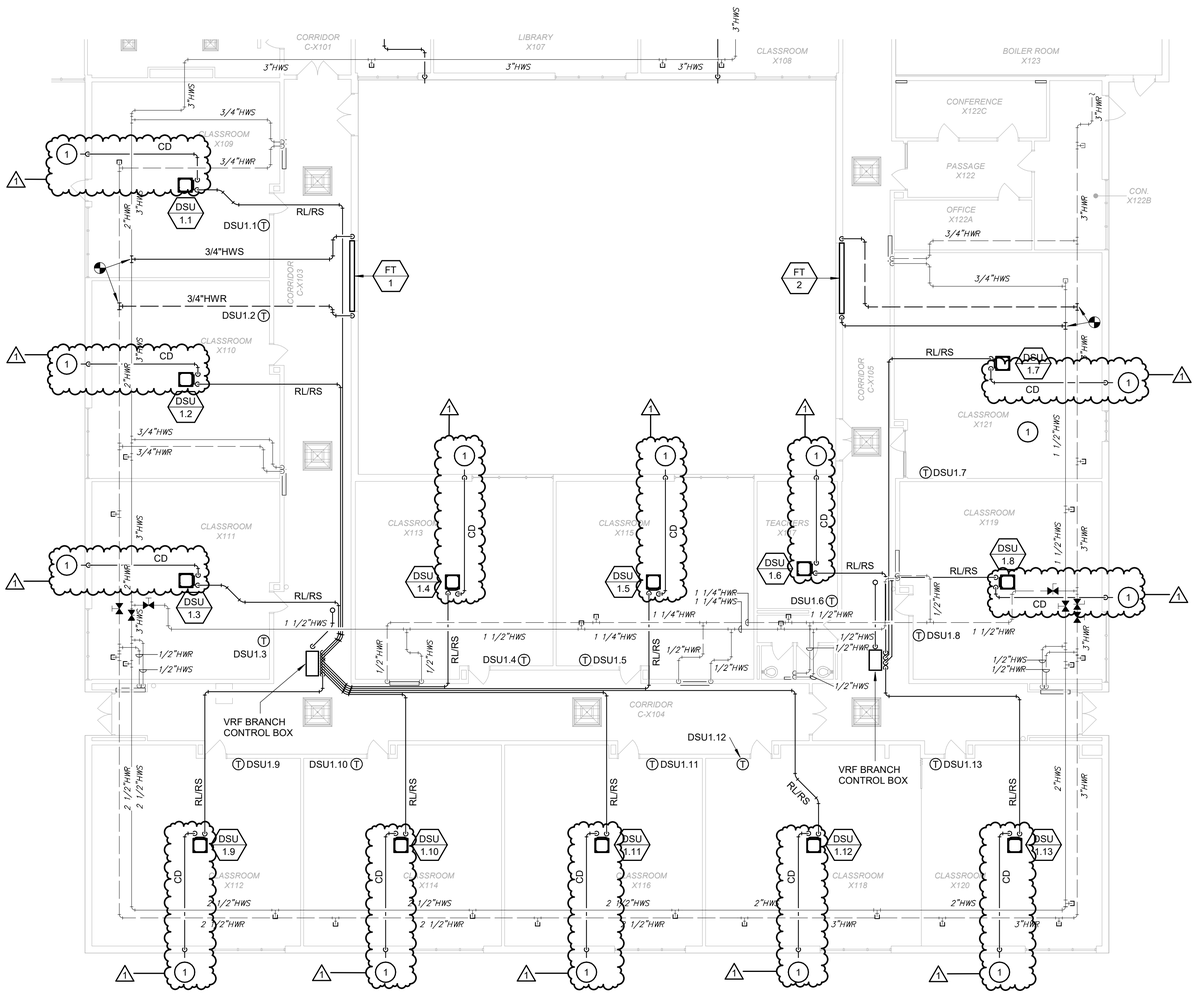
ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA D

SHEET NUMBER:

M2.1D

PROJECT NO.: 02401781.001

4/17/2025 12:01:31 PM



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KEYNOTES (#)

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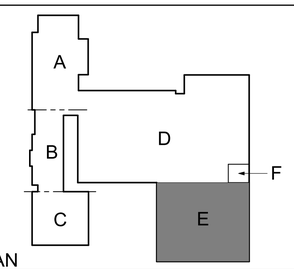

KEY PLAN
SCALE: NO SCALE

1 **ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA E**
SCALE: 3/32" = 1'-0"

0 4 8 16

TRUE NORTH

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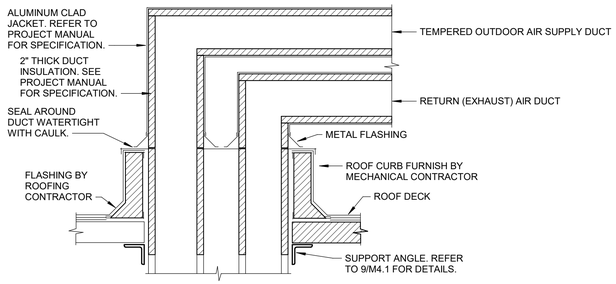
SHEET TITLE:
ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA E

SHEET NUMBER:
M2.1E

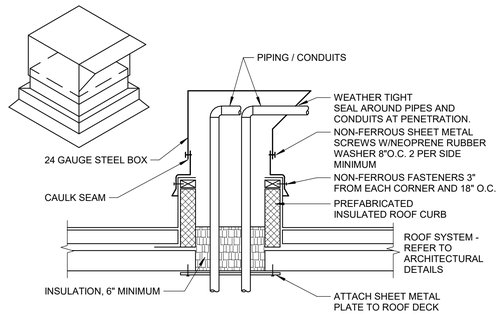
PROJECT NO.: 02401781.001

4/17/2025 12:01:31 PM



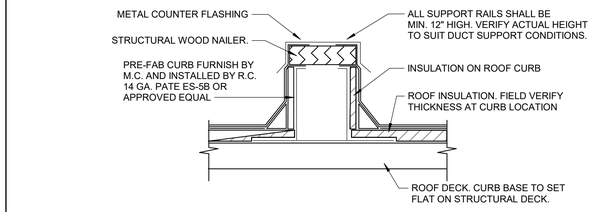
9 ROOF PENETRATION DETAIL

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



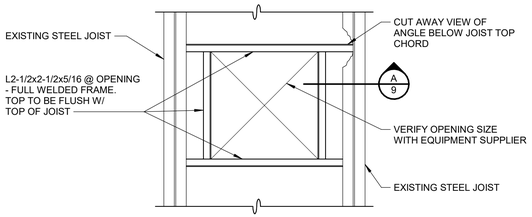
8 PREFABRICATED PIPE CURB

SCALE: No Scale



7 DUCT SUPPORT RAIL DETAIL

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

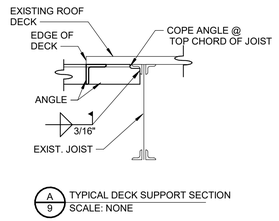


CURBS FOR RTU'S SHALL BE DESIGNED TO SPAN BETWEEN ROOF JOISTS. WHERE METAL DECK OCCURS REMOVE METAL ROOF DECK AT CURB PERIMETER TO ALLOW CURB TO BEAR DIRECTLY ON ROOF JOISTS. PROVIDE ANGLES SIMILAR TO ABOVE AT UNSUPPORTED ROOF DECK EDGES. WHERE GYPSUM DECK OCCURS CURB SHALL BEAR DIRECTLY ON DECK.

TYPICAL DECK SUPPORT DETAIL
SCALE = 1/2"

NOTE FOR CMU WALL PENETRATIONS

AT CMU WALL PENETRATIONS, PROVIDE 5/16" PLATE X MASONRY WIDTH LESS 1" FOR SPANS LESS THAN 2'-0". PROVIDE MINIMUM 6" BEARING EACH SIDE.

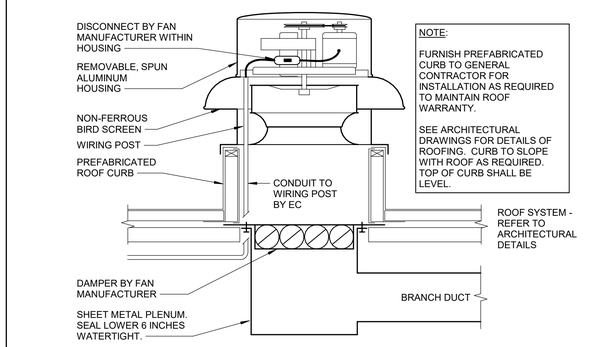


A 9 TYPICAL DECK SUPPORT SECTION
SCALE: NONE

TYPICAL DECK SUPPORT SECTION
SCALE = 1 1/2"

6 TYPICAL DECK SUPPORT DETAIL

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



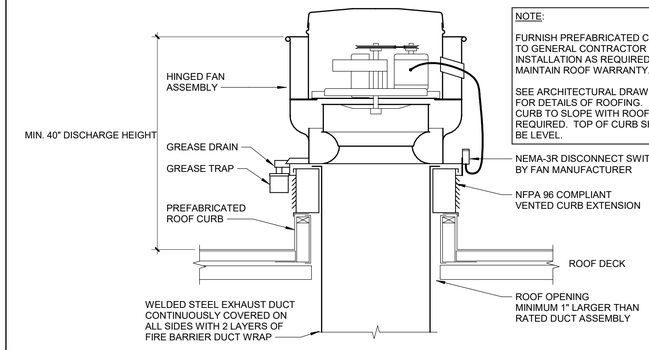
NOTE:

FURNISH PREFABRICATED CURB TO GENERAL CONTRACTOR FOR INSTALLATION AS REQUIRED TO MAINTAIN ROOF WARRANTY.

SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF ROOFING. CURB TO SLOPE WITH ROOF AS REQUIRED. TOP OF CURB SHALL BE LEVEL.

5 DOWNFLOW ROOF EXHAUST FAN

SCALE: No Scale



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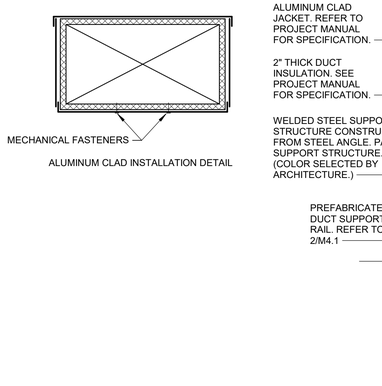
4 KITCHEN HOOD EXHAUST FAN

SCALE: No Scale



ALUMINUM CLAD INSTALLATION DETAIL

3 DUCT SUPPORT DETAIL

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

NOTE:

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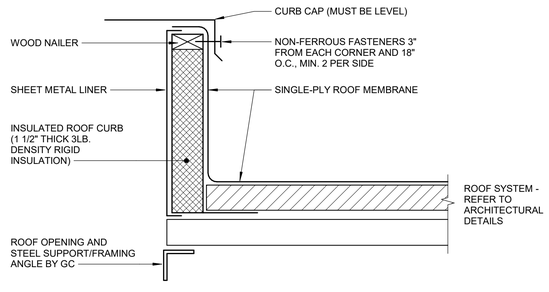
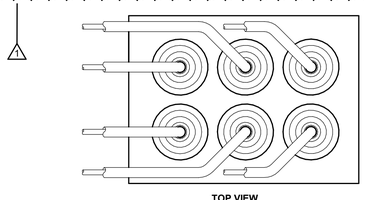


2 PREFABRICATED ROOF CURB

SCALE: No Scale



TOP VIEW

NOTE:

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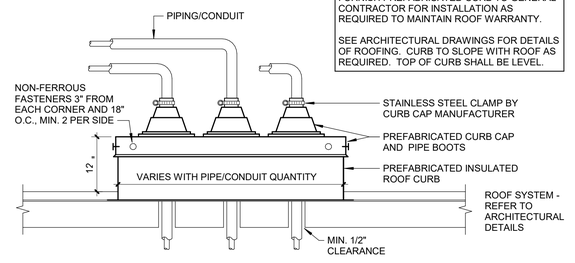

SIDE VIEW

1 PREFABRICATED PIPE CURB

SCALE: No Scale

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507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	TMG/GPF
DRAWN:	GPF
REVIEWED:	DRR

SHEET TITLE:

DIAGRAMS

SHEET NUMBER:

M5.2

PROJECT NO.: 02401781.001

4/17/2025 12:01:31 PM

AIR HANDLING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	SERVICE	ARRANGEMENT	SUPPLY FAN						PREHEAT COIL								COOLING COIL									FILTER				ELECTRICAL DATA			PHYSICAL DATA					REMARKS
						CFM	TSP (IN. W.C.)	ESP (IN. W.C.)	BHP	HP	FLA	CFM	MAX. FACE VEL. (FPM)	MAX. AIR P.D. (IN. W.C.)	TOTAL CAP. (MBH)	FLOW (GPM)	MAX. FLUID P.D. (FT. W.C.)	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	CFM	MAX. FACE VEL. (FPM)	MAX. AIR P.D. (IN. W.C.)	TOTAL CAP. (MBH)	SENS. CAP. (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	TYPE	MERV	THICK. (IN.)	MAX. FACE VEL. (FPM)	V/PH	MCA	MOCP	L (IN.)	W (IN.)	H (IN.)	WT. (LB.)	
AHU1	TRANE	UCCAG17A0G0RC113000002 GD882DB1AC0021B0B1	GYM	GYM	HORIZONTAL	8550	3.165	1	9.428	10	42.5	8550	525	0.178	463.62	44.26	6.58	180	159.08	45	95	8550	525	1.207	264.73	206.62	80	67	58.02	57.24	PLEATED	13	2	250	208/3	53	90	131.16	79	54.068	2202.8	
AHU2	TRANE	UCCAG17A0G0RC113000002 GD882DB1AC0021B0B1	GYM	GYM	HORIZONTAL	8550	3.165	1	9.428	10	42.5	8550	525	0.178	463.62	44.26	6.58	180	159.08	45	95	8550	525	1.207	264.73	206.62	80	67	58.02	57.24	PLEATED	13	2	250	208/3	53	90	131.16	79	54.068	2202.8	
AHU3	TRANE	UCCAG17A0G0RC113000002 GD882DB1AC0021B0B1	CAFETERIA	CAFETERIA	HORIZONTAL	8500	3.158	1	9.317	10	42.5	8500	522	0.177	460.91	43.26	6.3	180	158.72	45	95	8500	522	1.21	302.71	220.81	80	67	56.35	55.6	PLEATED	13	2	250	208/3	53	90	131	79	54.068	2202.8	
AHU4	TRANE	UCCAG17A0G0RC113000002 GD882DB1AC0021B0B1	CAFETERIA	CAFETERIA	HORIZONTAL	8500	3.158	1	9.317	10	42.5	8500	522	0.177	460.91	43.26	6.3	180	158.72	45	95	8500	522	1.21	302.71	220.81	80	67	56.35	55.6	PLEATED	13	2	250	208/3	53	90	131	79	54.068	2202.8	

NOTES:

DUCTLESS SPLIT UNIT SCHEDULE

INDOOR UNIT														OUTDOOR UNIT										REMARKS
MARK	MANUFACTURER	MODEL	LOCATION	CFM		CAP. (MBH)		ELECTRICAL DATA			PHYSICAL DATA				MARK	MANUFACTURER	MODEL	LOCATION	NOM. CAP. (TONS)	ELECTRICAL DATA			PHYSICAL DATA				
				LOW	HIGH	HEAT	COOL	V/PH	MCA	MOCP	L (IN.)	W (IN.)	H (IN.)	WT. (LB.)						V/PH	MCA	MOCP	L (IN.)	W (IN.)	H (IN.)	WT. (LB.)	
DSU6.1	MITSUBISHI	PLFY-L08NFMU-A	X133B	230	315	8.8	7.8	208/1	0.36	15	22.4...	22.4...	8.1875	28.9												1,3,4,5,6,7,8,9
DSU6.2	MITSUBISHI	PLFY-L12NFMU-A	X133A	245	335	13.2	11.8	208/1	0.36	15	22.4...	22.4...	8.1875	31.3	HP6	MITSUBISHI	MXZ-SM36NLHZ	ROOF	3	208/1	45	80	13	41.34375	52.6875	283	1,3,4,5,6,7,8,9
DSU6.3	MITSUBISHI	PLFY-L08NFMU-A	X133	230	315	8.8	7.8	208/1	0.36	15	22.4...	22.4...	8.1875	28.9												1,3,4,5,6,7,8,9
DSU7.1	MITSUBISHI	MSZ-GX12NL	X105	136	448	8.9	11.7	-	-	-	9.65...	31.4...	11.7...	23												2,3,4,5,6,7,8,9
DSU7.2	MITSUBISHI	MSZ-GX12NL	X105	136	448	8.9	11.7	-	-	-	9.65...	31.4...	11.7...	23	HP7	MITSUBISHI	MXZ-3D24NL	ROOF	2	208/1	28.7	48	13	37.34375	31.34375	137	2,3,4,5,6,7,8,9
DSU8.1	MITSUBISHI	MSY-GS12NA	123	121	381	-	12.0	-	-	-	9.125	31.4...	11.625	23	HP8	MITSUBISHI	MUY-GS12NA	ROOF	1	208/1	10	15	11.25	31.5	21.625	79	2,3,4,5,6,7,8,9

NOTES:
1. INDOOR UNIST ARE POWERED SEPARATELY FROM OUTDOOR UNIT.
2. INDOOR UNITS ARE POWERED BY OUTDOOR UNIT.
3. WIRED THERMOSTAT ATTACHED TO WALL.
4. PROVIDE AND INSTALL ALL REFRIGERANT PIPING, CONDESATE PIPING ETC. REQUIRED TO MAKE THE SYSTEM FULLY FUNCTIONAL.
5. OUTDOOR UNIT WITH CONTROLS FOR LOW AMBIENT TEMPERATURE (-20 °F) OPERATION, WIND BAFFLE.
6. SINGLE-POINT POWER CONNECTION AT OUTDOOR UNIT. DISCONNECT SWITCH BY DIV. 26.
7. 23.1 SEER, 13 EER, 12.5 HSPF, 3.8 COP.
8. FACTORY DISCONNECT SWITCH FOR INDOOR UNIT.
9. CONDENSATE PUMP: BLUE DIAMOND X87-721, 3 GPH @ 23 FT.

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	STYLE	FACE SIZE	FRAME	FINISH	MATERIAL	REMARKS
S1	PRICE	SPD	SUPPLY	PLAQUE	24x24	LAY-IN	WHITE	ALUMINUM	1
S2	PRICE	TBD	SUPPLY	LINEAR SLOT	48x6	LAY-IN	WHITE	ALUMINUM	1
S3	PRICE	TBD	SUPPLY	LINEAR SLOT	24x6	LAY-IN	WHITE	ALUMINUM	1
S4	PRICE	600	SUPPLY	GRILLE	NECK+2"	SURFACE	WHITE	ALUMINUM	1
S5	AIR CONCEPTS	RDDW-RD	SUPPLY	GRILLE	NECK+2"	DUCT MTD	ANODIZED	ALUMINUM	
R1	PRICE	PDR	RETURN	PERFORATED	24x24	LAY-IN	WHITE	ALUMINUM	1
R2	PRICE	PDR	RETURN	PERFORATED	12x24	LAY-IN	WHITE	ALUMINUM	1
R3	PRICE	600	RETURN	GRILLE	NECK+2"	SURFACE	WHITE	ALUMINUM	1
E1	PRICE	PDR	EXHAUST	PERFORATED	24x24	LAY-IN	WHITE	ALUMINUM	1
E2	PRICE	PDR	EXHAUST	PERFORATED	12x12	LAY-IN	WHITE	ALUMINUM	1
E3	PRICE	PDR	EXHAUST	PERFORATED	12x12	LAY-IN	WHITE	ALUMINUM	1

NOTES: 1. INCLUDE WITH FACE OPERATED VOLUME DAMPER INTEGRAL TO THE UNIT AT GYPSUM CEILING, OR WHERE NONE IS NOTED. COORDINATE WITH REFLECTED CEILING PLAN.

CONDENSING UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	AMBIENT TEMP. (°F)	REFRIG. TYPE	NOM. CAP. (TONS)	STEPS	IEER	COMPRESSOR			FAN		ELECTRICAL DATA			PHYSICAL DATA				REMARKS
									QTY.	RLA 1	RLA 2	QTY.	FLA EACH	V/PH	MCA	MOCP	L (IN.)	W (IN.)	H (IN.)	WT. (LB.)	
CU1	TRANE	RAUKC20EE*0000000 0000200000	AHU1	95	R454-B	20	4	14.6	2	49.6	34.7	2	4.1	208/3	115	150	88.3125	60.125	74.25	1850	
CU2	TRANE	RAUKC20EE*0000000 0000200000	AHU2	95	R454-B	20	4	14.6	2	49.6	34.7	2	4.1	208/3	115	150	88.3125	60.125	74.25	1850	
CU3	TRANE	RAUKC25EE*0000000 0000200000	AHU3	95	R454-B	25	5	15.5	2	62.1	40.1	3	4.1	208/3	141	200	88.3125	60.125	74.25	1898	
CU4	TRANE	RAUKC25EE*0000000 0000200000	AHU4	95	R454-B	25	5	15.5	2	62.1	40.1	3	4.1	208/3	141	200	88.3125	60.125	74.25	1898	

NOTES: 1. DISCONNECT SWITCH

FIN TUBE RADIATOR SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	TOTAL CAP. (MBH)	MBH / FT	EWT (°F)	EAT (°F)	PHYSICAL DATA					REMARKS
								LENGTH (FT.)	TUBE DIA. (IN.)	FINS PER FT.	FIN SIZE	ENCLOSURE HEIGHT (IN.)	
FT1	STERLING	JVB-PM C3/4-435	C-X103	9.5	0.95	180	65	10	3/4	50	3.625 x 4.25	10.75	
FT2	STERLING	JVB-PM C3/4-435	C-X105	9.5	0.95	180	65	10	3/4	50	3.625 x 4.25	10.75	
FT3	STERLING	JVB-PM C3/4-435	C-X108	9.5	0.95	180	65	10	3/4	50	3.625 x 4.25	10.75	
FT4	STERLING	JVB-PM C3/4-435	C-X106	9.5	0.95	180	65	10	3/4	50	3.625 x 4.25	10.75	

NOTES:

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	DRIVE	SERVICE	CFM	TSP (IN. W.C.)	FAN MOTOR BHP	SONES	DAMPER	ROOF OPENING		ELECTRICAL DATA			PHYSICAL DATA			REMARKS
											L (IN.)	W (IN.)	HP/ WATTS	V/PH	FLA	L (IN.)	W (IN.)	H (IN.)	
EF1	GREENHECK	CUBE-200	UPBLAST	BELT	KITCHEN HOOD	3600	0.5	0.75	12	NO	26.5	26.5	3/4 HP	208/1	13.8	37	37	49	
EF2	GREENHECK	CUBE-120	UPBLAST	BELT	KITCHEN HOOD	1000	0.5	0.18	8.3	NO	15.5	15.5	1/4 HP	208/1	5.8	25	25	38	
EF3	GREENHECK	G-140-VG	DOWNBLAST	DIRECT	T111, 112, T113, T116, T117	1050	0.31	0.11	6	BACKDRAFT	18.5	18.5	1/4 HP	208/1	2.1	28	28	36	
EF4	GREENHECK	G-70-D	DOWNBLAST	DIRECT	X132, X132A, X133C	226	0.32	0.02	4.4	BACKDRAFT	N/A	N/A	1/30 HP	120/1	-	19	19	24	1

NOTES: 1. PROVIDE WITH ROOF CURB ADAPTER TO MOUNT NEW FAN ON EXISTING ROOF CURB.

1

RADIANT PANEL SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	TUBE QTY.	BTUH / LF	TOTAL CAP. (MBH)	FLOW (GPM)	EWT (%%D F)	LWT (%%D F)	EAT (%%D F)	PHYSICAL DATA			REMARKS
											L (IN.)	W (IN.)	D (IN.)	
RP1	PRICE	RPM	C101	6	-	1680	0.5	180	160	-	**48**	**24**	**2**	

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Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE: 04/03/2025
DESIGNED: TMG/GPF
DRAWN: GPF
REVIEWED: DRR

SHEET TITLE:

SCHEDULES

SHEET NUMBER:

M6.2

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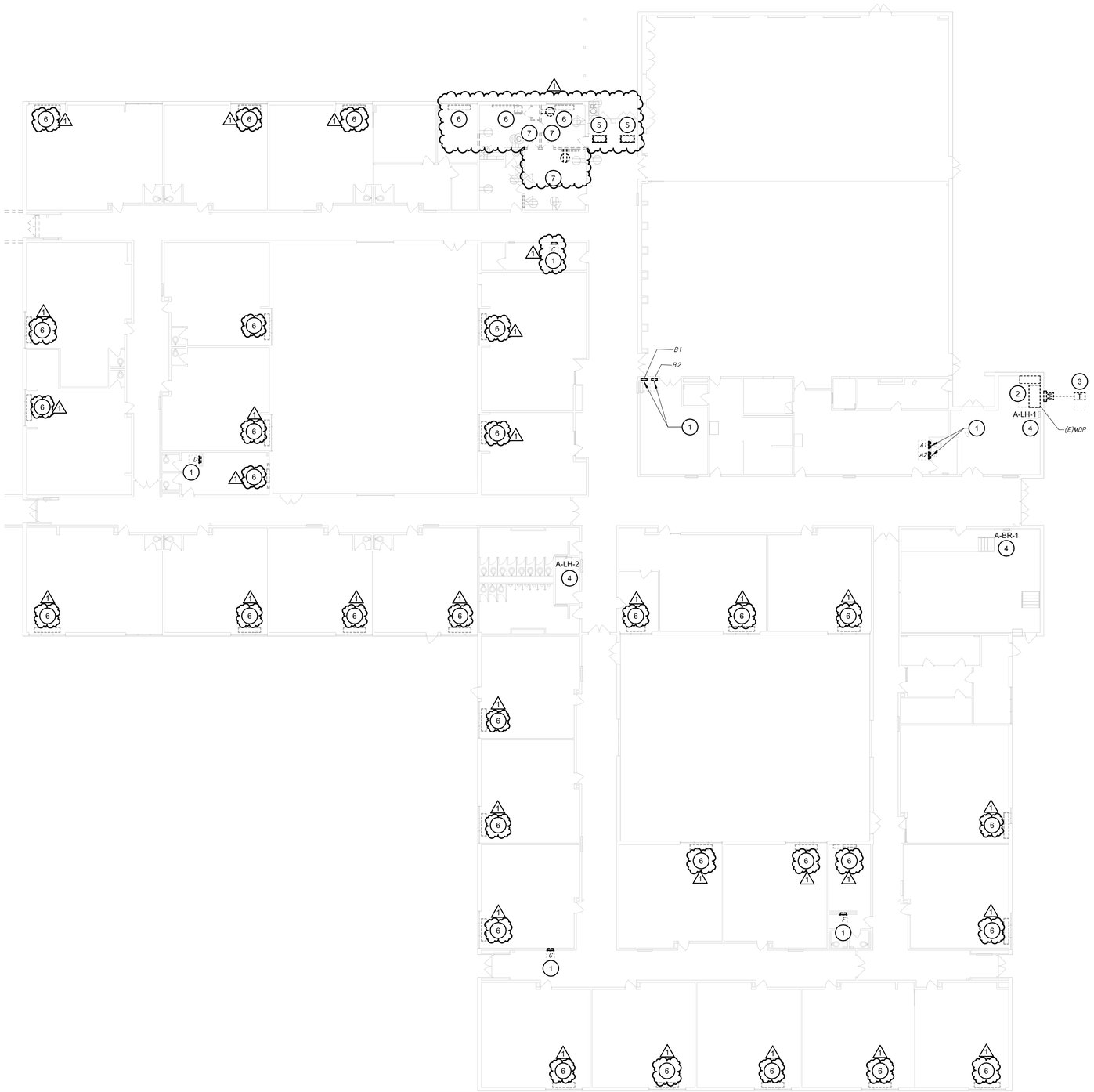

1 **FIRST FLOOR ELECTRICAL DEMOLITION PLAN**
SCALE: 1/16" = 1'-0"

0 8 16 32

TRUE NORTH PLAN NORTH

GENERAL NOTES

A. NOT USED

KEYNOTES (#)

1 REMOVE AND REPLACE EXISTING PANELBOARD. RE-USE FEEDER FOR NEW PANELBOARD BEING INSTALLED IN SAME LOCATION. SALVAGE EXISTING CIRCUITS FOR RE-CONNECT TO NEW PANELBOARD.

2 EXISTING DISTRIBUTION PANEL (E)MDP IS TO REMAIN UNTIL NEW SWITCHBOARD (SWB-A) READY TO BE INSTALLED. (E)MDP FEEDS EXISTING SCHOOL AND WILL BE USED TO FEED THE NEW HVAC EQUIPMENT DURING THE SCHOOL YEAR. SEE TEMPORARY ELECTRICAL CONNECTIONS E2.5 FOR MORE INFORMATION. WHEN THE CHANGEOVER OCCURS, REMOVE (E)MDP TO ITS FULLEST EXTENT AND REMOVE THE OTHER ABANDONED SWITCHBOARD AS WELL. PATCH WALL AS REQUIRED.

3 COORDINATE TRANSFORMER REMOVAL WITH UTILITY COMPANY. REMOVE CONDUIT AND CONDUCTOR TO EXISTING DISTRIBUTION PANEL (E)MDP. REMOVE EXISTING UTILITY METER AND CT/PT CABINET.

4 RE-NAME EXISTING PANELBOARD. SEE SCHEDULE.

1 5 REMOVE LUMINAIRES. REMOVE CONDUIT AND CONDUCTORES BACK TO NEAREST JUNCTION.

6 REMOVE ELECTRICAL CONNECTION TO VENTILATOR. REMOVE CONDUIT AND BRANCH FEEDER BACK TO BRANCH PANEL.

7 REMOVE ALL LUMINAIRES IN THIS SPACE PRIOR TO REMOVAL OF EXISTING CEILING. CONDUIT AND CONDUCTOR TO REMAIN FOR RE-USE.

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ED1.1

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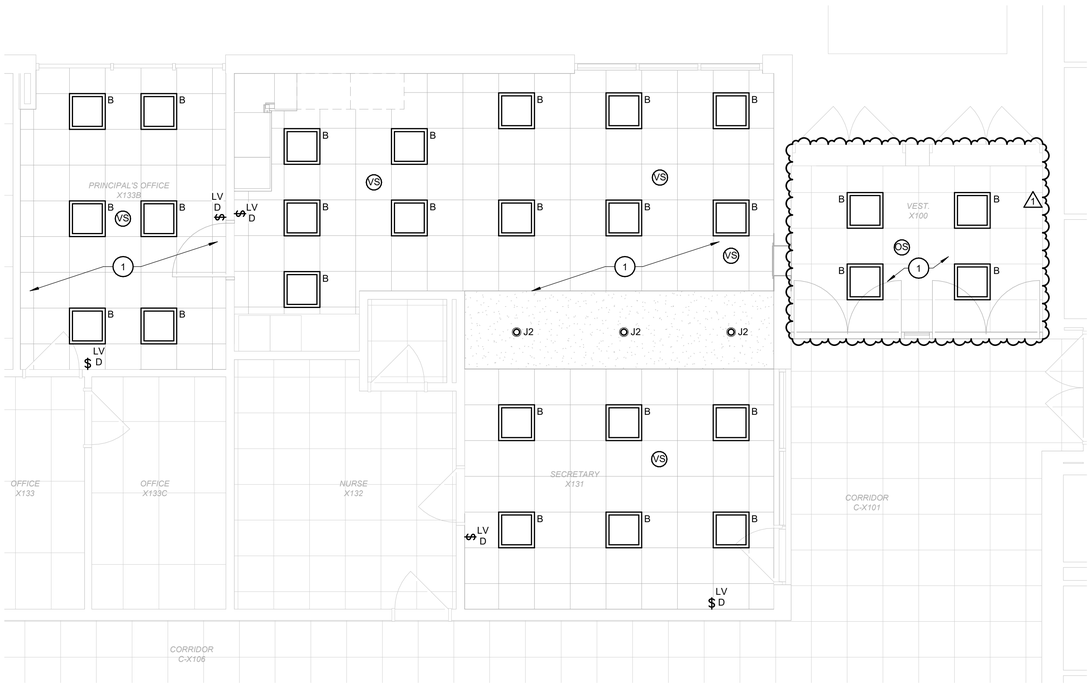


1 **FIRST FLOOR LIGHTING PLAN - AREA SECRETARY X131**
SCALE: 1/4" = 1'-0"

0 2 4 8

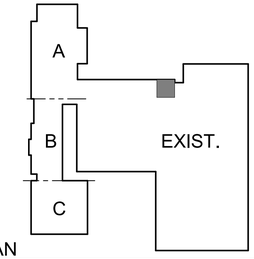
PLAN NORTH

GENERAL NOTES

A. LIGHTING SYSTEM CONTROLS ARE DIAGRAMMATIC AND ARE GENERIC. PROVIDE NETWORK BASED LIGHTING CONTROL SYSTEM. PROVIDE CAT 5 CONTROL WIRING BETWEEN ALL FIELD MOUNTED RELAY DEVICES. BASIS OF DESIGN IS ACUITY NLIGHT SYSTEM WITH ECLIPSE LIGHTING CONTROLLER. SUCCESSFUL LIGHTING CONTROL SYSTEM VENDOR SHALL THOROUGHLY EXAMINE PLANS AND PROVIDE COMPLETE AND DETAILED LAYOUT DRAWINGS AND BILL OF MATERIALS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

KEYNOTES (#)

1 CIRCUIT NEW LUMINAIRES TO EXISTING LIGHTING CIRCUIT FEEDING THIS SPACE. RE-USE EXISTING CONDUIT AND CONDUCTOR TO THE FULLEST EXTENT.



KEY PLAN
SCALE: NO SCALE

TRUE NORTH

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FIRST FLOOR LIGHTING PLAN - AREA SECRETARY X131

SHEET NUMBER:
E1.0

PROJECT NO.: 02401781.001

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GENERAL NOTES

A. CLASSROOM CONTROLLED RECEPTACLES: CONTROL RECEPTACLE WITH CLASSROOM LIGHTING OCCUPANCY SENSOR.

B. REVIEW ELECTRICAL CONNECTIONS SHOWN ON E2.1 AND E2.5. E2.1 SHOWS FINAL CONNECTIONS FOR THE ENTIRE NEW HVAC SYSTEM IN ITS FINAL CONSTRUCTION STATE. E2.5 SHOWS CONNECTIONS REQUIRED TO BE MADE PRIOR TO THE START OF THE NEXT SCHOOL YEAR. AN ATTEMPT HAS BEEN MADE TO MINIMIZE RE-WORK BY HAVE THE BRANCH CIRCUITS COMPLETED DURING THE TEMPORARY PHASE MATCH THE FINAL CONSTRUCTION PHASE. DOAS 1, 2, AND 3 ARE THE ONLY PEICES OF EQUIPMENT WHICH CIRCUITS WILL NEED TO BE MOVED DURING THE FINAL CONSTRUCTION PHASE.

KEYNOTES (#)

1 NOT USED.

2 REPLACE EXISTING PANELBOARD. SEE PANELSCHEDULES FOR MORE INFORMATION. FOR RECESSED PANELS (A-LC-1, A-LD-1, A-LG-1, A-LF-1, A-LK-1, A-LK-2) PATCH AND REPAIR EXISTING FINISHES TO ACCOMODATE NEW PANELBOARDS. RE-USE EXISTING FEEDER BACK TO SWB-A. PROVIDE WIRE TROUGH AS NEDDED AT SWB-A TO EXTEND FEEDERS TO NEW SWB-A LOCATION. CONNECT EXISTING CIRCUITS TO NEW PANELBOARDS.

3 PROVIDE CONDUIT AND CONDUCTOR FROM UTILITY COMPANY TRANSFORMER TO SWB-A. SEE E4.1. COORDINATE SWB-A INSTALLATION WITH UTILITY COMPANY TRANSFORMER UPGRADE.

4 TRANSFORMER UPGRADED BY UTILITY COMPANY. COORDINATE INSTALLATION WITH UTILITY COMPANY.

5 EXISTING PANELBOARD TO REMAIN. PROVIDE NEW LABEL FOR EXISTING PANELBOARD THAT INCLUDES NEW NAME AND ALL INFORMATION AS SHOWN ON THE DETAILS AND CALLED OUT IN THE SPECIFICATIONS.

6 RE-LOCATE PANELBOARD WITHIN ROOM TO ACCOMODATE NEW SWITCHBOARD AS NEEDED. EXTEND FEEDER TO NEW PANELBOARD LOCATION.

7 PROVIDE NEW CT/PT CABINET AND METER BASE AS REQUIRED BY THE UTILITY COMPANY. IF NO NEW CT/PT CABINET REQUIRED PROVIDE CREDIT TO THE OWNER FOR THIS WORK.

8 PROVIDE ROUGH-IN FOR FRONT DOOR RELEASE BUTTON. COORDINATE REQUIREMENTS WITH SYSTEM PROVIDER.

9 PROVIDE POWER TO DOOR OPERATOR. COORDINATE INSTALLATION DETAILS WITH DOOR OPERATOR PROVIDER.

10 EXISTING VOICE BUTTON TO REMAIN.

11 INSTALL RECEPTACLE AND DATA ROUGH-IN BEHIND DISPLAY. COORDINATE LOCATION WITH ARCHITECTURE DRAWINGS AND WITH OWNER.

12 PROVIDE CONNECTION TO PSS THROUGH SPEAKER POWER SUPPLY. PROVIDE POWER FROM CIRCUIT 32 IN PANEL A-LC-1. VERIFY SPEAKER REQUIREMENTS WITH MANUFACTURER. COORDINATE HEIGHT AND LOCATION WITH ARCHITECTURE AND OWNER.

13 PROVIDE CONDUIT PER EQUIPMENT DATA SCHEDULE FROM DSU TO HP7. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR.

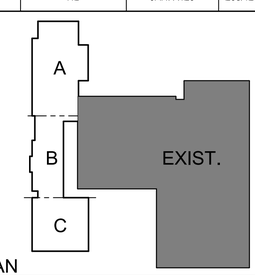
14 REMOVE EXISTING SMOKE DETECTOR. CONDUIT AND CONDUCTOR IS TO REMAIN FOR RECONNECTION PRIOIR TO INSTALLATION OF NEW CEILING. RE-INSTALL SMOKE DETECTOR IN SIMILAR LOCATION USING EXISTING CONDUIT AND CONDUCTOR.

15 CONNECT DEVICE TO EXISTING FIRE ALARM SYSTEM. PROVIDE NEW CONDUIT AND CONDUCTOR FROM NEAREST JUNCTION BOX FEEDING FIRE ALARM DEVICES.

16 PROVIDE NEW GROUND TRIANGLE. SEE DETAILS.

PANEL NAMING SCHEDULE

NEW NAME	*EXISTING NAME*	LOCATION	PANEL TYPE
A-LK-1	*A1*	KITCHEN X105	208/120VAC PANELBOARD
A-LK-2	*A2*	KITCHEN X105	208/120VAC PANELBOARD
A-LB-1	*B1*	STORAGE X103	208/120VAC PANELBOARD
A-LB-2	*B2*	STORAGE X103	208/120VAC PANELBOARD
A-BR-1	*BR*	BOILER ROOM X123	208/120VAC PANELBOARD
A-LC-1	*C*	STORAGE X129	208/120VAC PANELBOARD
A-LD-1	*D*	TEACHERS X142	208/120VAC PANELBOARD
A-LF-1	*F*	TEACHERS X117	208/120VAC PANELBOARD
A-LG-1	*G*	CORRIDOR C-X104	208/120VAC PANELBOARD
A-LH-1	*H1*	GEN. STOR. X106	208/120VAC PANELBOARD
A-LH-2	*H2*	JAN. X126	208/120VAC PANELBOARD



KEY PLAN
SCALE: NO SCALE

2 POWER / SYSTEMS PLAN - SECRETARY X131
SCALE: 1/4" = 1'-0"

1 FIRST FLOOR POWER PLAN - AREA EXISTING
SCALE: 1/16" = 1'-0"

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SHEET TITLE:
FIRST FLOOR POWER PLAN - AREA EXISTING

SHEET NUMBER:
E2.0

PROJECT NO.: 02401781.001

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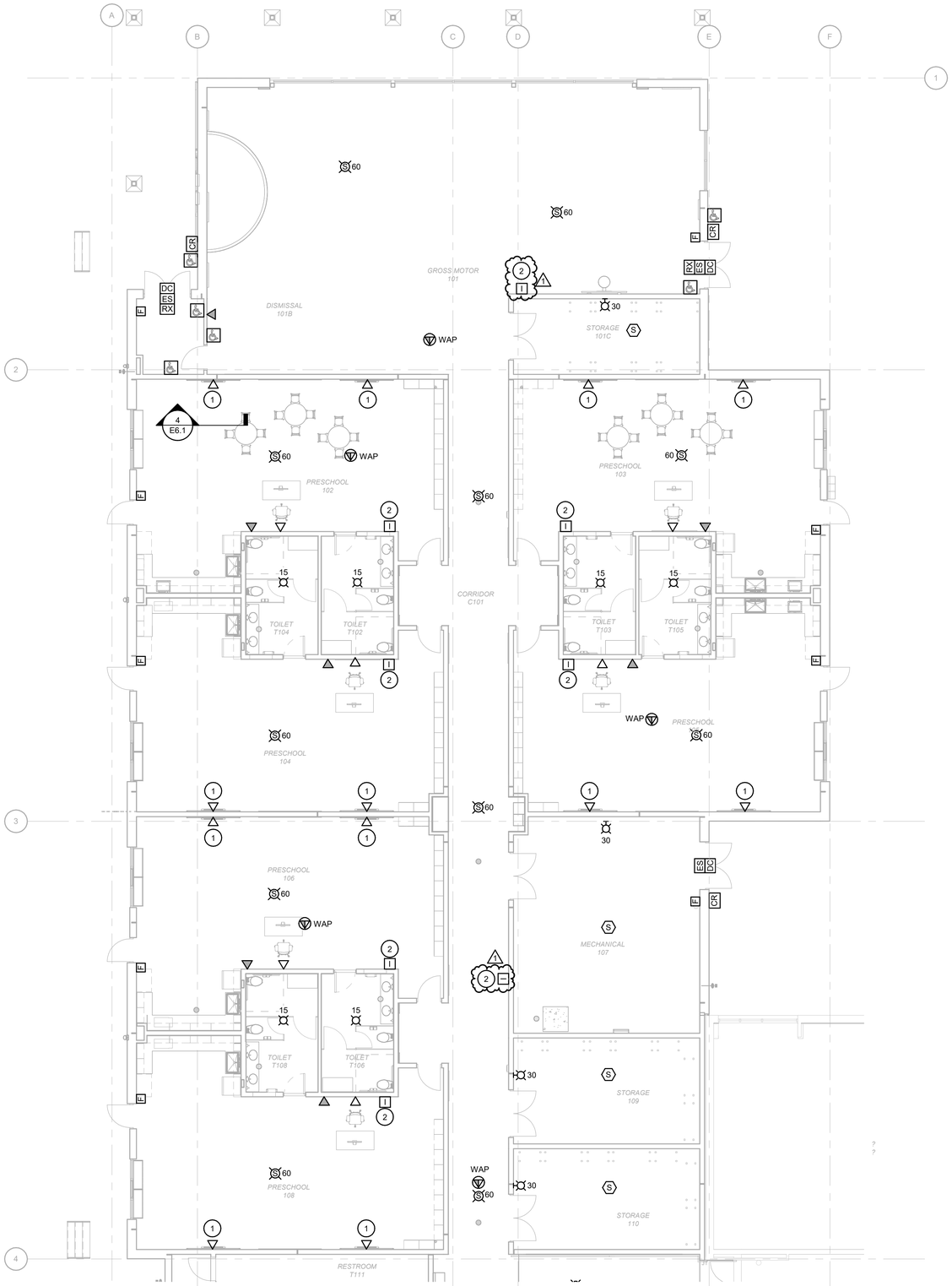


1 **FIRST FLOOR SYSTEMS PLAN - AREA A**
SCALE: 1/8" = 1'-0"

0 4 8 16

PLAN NORTH

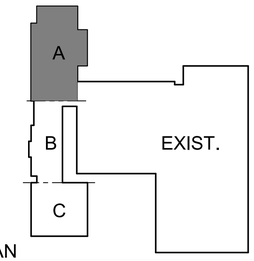
GENERAL NOTES

A. CONNECT ALL NEW FIRE ALARM EQUIPMENT TO BUILDINGS EXISTING FIRE ALARM SYSTEM.

KEYNOTES (#)

1 COORDINATE ROUGH-IN HEIGHT AND LOCATION FOR SMARTBOARD WITH ARCHITECT.

2 INTERCOM SYSTEM ROUGH IN. ROUGH IN AT 72" AFF. VERIFY ROUGH IN REQUIREMENTS WITH INTERCOM SYSTEM PROVIDER.



KEY PLAN
SCALE: NO SCALE

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FIRST FLOOR SYSTEMS PLAN - AREA A

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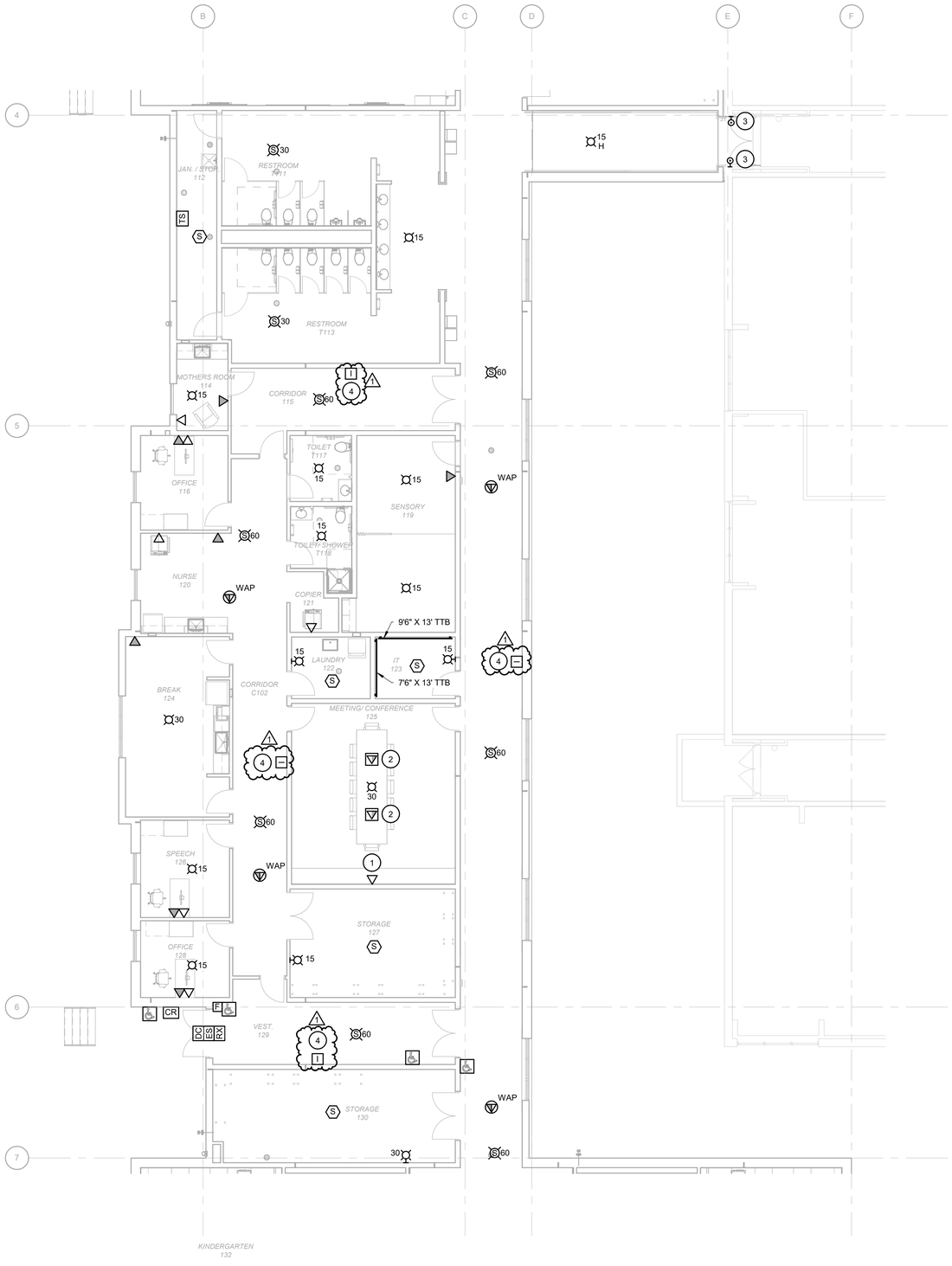


GENERAL NOTES

A. CONNECT ALL NEW FIRE ALARM EQUIPMENT TO BUILDINGS EXISTING FIRE ALARM SYSTEM.

KEYNOTES (#)

1 COORDINATE ROUGH-IN HEIGHT AND LOCATION FOR DISPLAY WITH ARCHITECT.

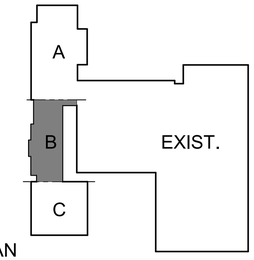
2 SEE E2.2 FOR FLOOR BOX INSTALLATION DETAILS.

3 PROVIDE CONNECTION FROM FIRE ALARM SYSTEM TO MAGNETIC DOOR HOLDER. DOOR SHALL CLOSE UPON DETECTION OF FIRE.

1 4 INTERCOM SYSTEM ROUGH IN. ROUGH IN AT 72" AFF. VERIFY ROUGH IN REQUIREMENTS WITH INTERCOM SYSTEM PROVIDER.

1 **FIRST FLOOR SYSTEMS PLAN - AREA B**
SCALE: 1/8" = 1'-0"

0 4 8 16



KEY PLAN
SCALE: NO SCALE

PLAN NORTH

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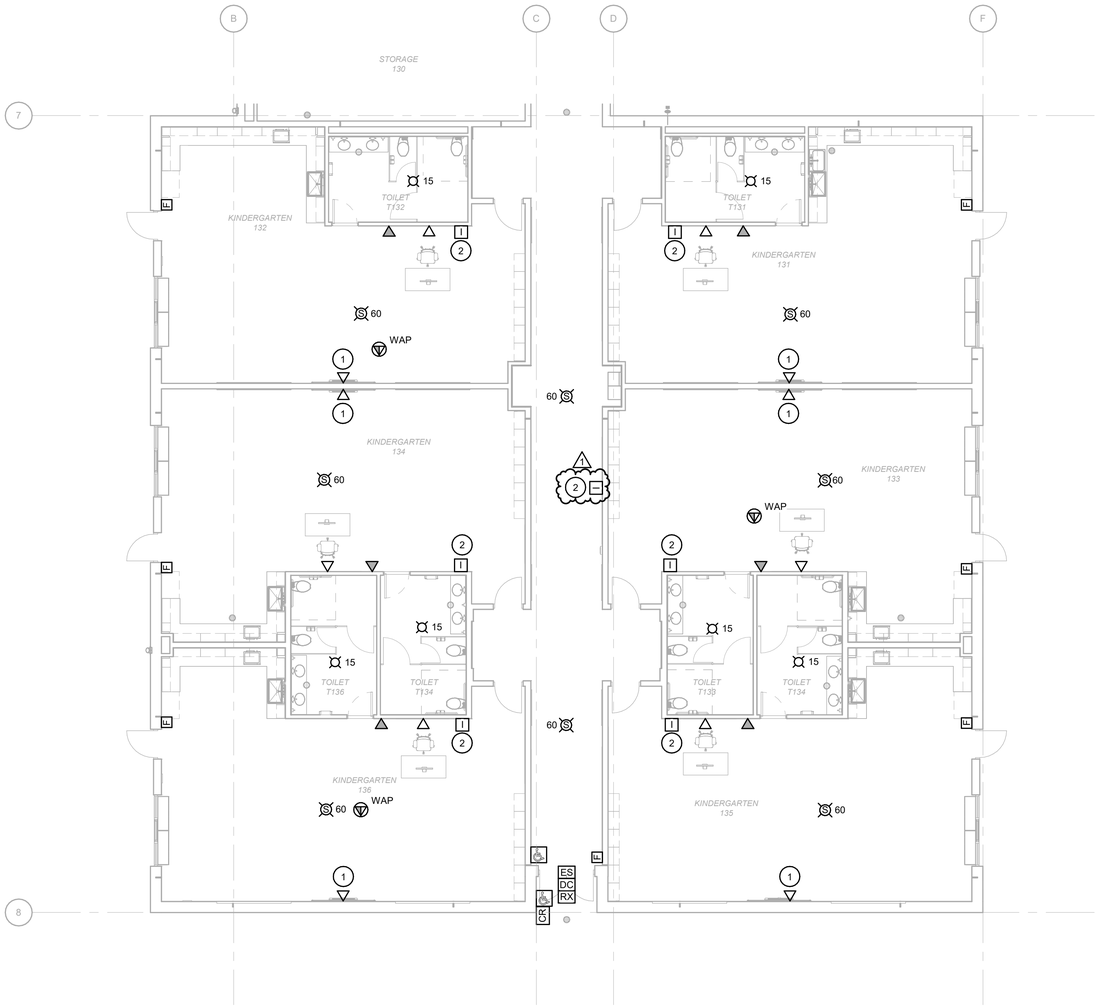


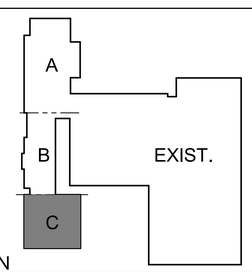
GENERAL NOTES

A. CONNECT ALL NEW FIRE ALARM EQUIPMENT TO BUILDINGS EXISTING FIRE ALARM SYSTEM.

KEYNOTES (#)

1 COORDINATE ROUGH-IN HEIGHT AND LOCATION FOR SMARTBOARD WITH ARCHITECT.

2 INTERCOM SYSTEM ROUGH IN. ROUGH IN AT 72" AFF. VERIFY ROUGH IN REQUIREMENTS WITH INTERCOM SYSTEM PROVIDER.



KEY PLAN
SCALE: NO SCALE

1 FIRST FLOOR SYSTEMS PLAN - AREA C
SCALE: 1/8" = 1'-0"

0 4 8 16

PLAN NORTH

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FIRST FLOOR SYSTEMS PLAN - AREA C

SHEET NUMBER:
E3.3

PROJECT NO.: 02401781.001

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LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	LUMINAIRE SERIES	SOURCE (TYPE/COLOR TEMP/CRI)	VOLTAGE	LOAD (VA)	LUMEN OUTPUT	FINISH	MOUNTING	DESCRIPTION
			LED	120 V				RECESSED	
A	FLUXWERX	LR1 64 D 35 F2 M V N1	LED, 3500K, 80CRI	120 V	38	5350	WHITE	RECESSED	6" X 4' RECESSED PANEL
B	LITHONIA	ENVX 2X2 HRG 3300LM 80CRI 35K MIN10 ZT MVOLT NLIGHT	LED, 3500K, 80CRI	120 V	30	3300	WHITE	RECESSED	2X2 RECESSED PANEL
C	GOTHAM	IVO4 WW 10LM 35K 80CRI MIN10 120 GZ10 CP SF LW AR LSS F	LED, 3500K, 80CRI	120 V	9.8	733	WHITE	RECESSED	4" LED WALL WASH
F	LITHONIA	ZL1D L48 5000LM FST MVOLT 35K 80CRI WH HC36 M12	LED, 3500K, 80CRI	120 V	30	5000	WHITE	PENDANT	4' LED PENDANT
G1	AXIS	SK4R CIR(15) AL(7'10") 400 80 35 SO W INV DP 1 DF	LED, 3500K, 80CRI	120 V	30.6	3133	WHITE	RECESSED	30" DIAMETER LED RING. CONSULT FACTORY FOR LUMEN OUTPUT.
G2	AXIS	SK4R CIR(36) AL(18'10") 400 80 35 SO W UNV DP 1 DF	LED, 3500K, 80CRI	120 V	74.1	7523	WHITE	RECESSED	72" DIAMETER LED RING. CONSULT FACTORY FOR LUMEN OUTPUT.
H	EUREKA	4805-38 LED.REG 35 90 120V NLIGHT AC 78 RC2 WHE CLR WH	LED, 3500K, 80CRI	120 V	62	7000	WHITE	PENDANT	38" DIAMETER RING PENDANT
J1	GOTHAM	EVO4 35/15 AR LSS WE 120 GZ10 NLT TRW	LED, 3500K, 80CRI	120 V	13.7	1500	WHITE	RECESSED	4" LED DOWNLIGHT
J2	GOTHAM	EVO4 35/10 AR LSS WE 120 GZ10 NLT TRW	LED, 3500K, 80CRI	120 V	8.8	1000	WHITE	RECESSED	4" LED DOWNLIGHT
K1	GOTHAM	IVO6CYL PC D 50LM 35K 80CRI WD MIN10 MVOLT NLIGHT L12 JBX CAN C120 P WR DWH	LED, 3500K, 80CRI	120 V	47.4	5000	WHITE	PENDANT	6" PENDANT
K2	GOTHAM	IVO6CYL PC D 40LM 35K 80CRI WD MIN10 MVOLT NLIGHT L12 JBX CAN C120 P WR DWH	LED, 3500K, 80CRI	120 V	40.5	4000	WHITE	PENDANT	6" PENDANT
L1A	EUREKA	3851-36 LED 35 90 120 NLIGHT RDP WHE WHE SBF 3981C	LED, 3500K, 90CRI	120 V	28.4	2800	AQUA	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L1B	EUREKA	3851-36 LED 35 90 120 NLIGHT RDP WHE WHE BBF 3981C	LED, 3500K, 90CRI	120 V	28.4	2800	BLUE	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L1G	EUREKA	3851-36 LED 35 90 120 NLIGHT RDP WHE WHE PGF 3981C	LED, 3500K, 90CRI	120 V	28.4	2800	GREEN	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L1O	EUREKA	3851-36 LED 35 90 120 NLIGHT RDP WHE WHE BOF 3981C	LED, 3500K, 90CRI	120 V	28.4	2800	ORANGE	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L1R	EUREKA	3851-36 LED 35 90 120 NLIGHT RDP WHE WHE PNF 3981C	LED, 3500K, 90CRI	120 V	28.4	2800	RED	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L1Y	EUREKA	3851-36 LED 35 90 120 NLIGHT RDP WHE WHE DYF 3981C	LED, 3500K, 90CRI	120 V	28.4	2800	YELLOW	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L2A	EUREKA	3851-48 LED 35 90 120 NLIGHT RDP WHE WHE SBF 3981C	LED, 3500K, 90CRI	120 V	39	3800	AQUA	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L2B	EUREKA	3851-48 LED 35 90 120 NLIGHT RDP WHE WHE BBF 3981C	LED, 3500K, 90CRI	120 V	39	3800	BLUE	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L2G	EUREKA	3851-48 LED 35 90 120 NLIGHT RDP WHE WHE LGF 3981C	LED, 3500K, 90CRI	120 V	39	3800	GREEN	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L2O	EUREKA	3851-48 LED 35 90 120 NLIGHT RDP WHE WHE BOF 3981C	LED, 3500K, 90CRI	120 V	39	3800	ORANGE	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L2R	EUREKA	3851-48 LED 35 90 120 NLIGHT RDP WHE WHE PNF 3981C	LED, 3500K, 90CRI	120 V	39	3800	RED	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L2Y	EUREKA	3851-48 LED 35 90 120 NLIGHT RDP WHE WHE DYF 3981C	LED, 3500K, 90CRI	120 V	39	3800	YELLOW	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L3A	EUREKA	3851-72 LED 35 90 120 NLIGHT RDP WHE WHE SBF 3981C	LED, 3500K, 90CRI	120 V	57	5554	AQUA	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L3B	EUREKA	3851-72 LED 35 90 120 NLIGHT RDP WHE WHE BBF 3981C	LED, 3500K, 90CRI	120 V	57	5554	BLUE	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L3G	EUREKA	3851-72 LED 35 90 120 NLIGHT RDP WHE WHE LGF 3981C	LED, 3500K, 90CRI	120 V	57	5554	GREEN	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L3O	EUREKA	3851-72 LED 35 90 120 NLIGHT RDP WHE WHE BOF 3981C	LED, 3500K, 90CRI	120 V	57	5554	ORANGE	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L3R	EUREKA	3851-72 LED 35 90 120 NLIGHT RDP WHE WHE PNF 3981C	LED, 3500K, 90CRI	120 V	57	5554	RED	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
L3Y	EUREKA	3851-72 LED 35 90 120 NLIGHT RDP WHE WHE DYF 3981C	LED, 3500K, 90CRI	120 V	57	5554	YELLOW	SURFACE	SURFACE MOUNT RING WITH FELT PANEL
M	ELECTRIC MIRROR	LUN3-30.00-LHED-NB-30K	LED, 3000K, 80CRI	120 V	60	7894	WHITE	SURFACE	MIRROR WITH LED LIGHT. INSTALL MIRROR SO THAT THERE IS 6" BETWEEN COUNTER AND BOTTOM OF MIRROR.
N	GOTHAM	EVO6SH 35/15 DFF SOL 120 EZ1 NLT	LED, 3500K, 80CRI	120 V	14.7	1500	WHITE	RECESSED	6" LED DOWNLIGHT
P	LITHONIA	WDGE2 LED P2 30K 80CRI VF MVOLT SRM DBLXD NLTAIR2 PIR	LED, 3500K, 80CRI	120 V	15	2000	BLACK	SURFACE	LED WALL PACK WITH PHOTOCELL CONTROL
Q	BEGA	B24384 K35 FRO	LED, 3500K, 80CRI	120 V	12.3	1200	MATCH CANOPY COLOR	RECESSED	CANOPY DOWNLIGHT
R1	JUNO	UCES 24IN SWW5 90CRI WH M6	LED, 3500K, 90CRI	120 V	17	800	WHITE	SURFACE	UNDERCABINET LED
R2	JUNO	UCES 18IN SWW5 90CRI WH M6	LED, 3500K, 90CRI	120 V	13	600	WHITE	SURFACE	UNDERCABINET LED
X1	LITHONIA	LQM	LED	120 V	1				PROVIDE FACES AND ARROWS AS NOTED ON THE PLANS.
X2	LITHONIA	LQM	LED	120 V	1				PROVIDE FACES AND ARROWS AS NOTED ON THE PLANS.

NOTES:

A. REMOVE ALL FINGER PRINTS FROM LENSES, REFLECTORS, AND LOUVERS FOLLOWING LUMINAIRE INSTALLATION.

B. FOR CONTINUOUS LUMINAIRES COORDINATE WITH SUPPLIER ON LENGTH AND REQUIRED FITTINGS, AND INSTALL WITH UNIFORM ILLUMINATION ALONG LUMINAIRE INCLUDING CORNERS.

C. FOR APPROVAL OF LUMINAIRES FROM MANUFACTURERS OTHER THAN THOSE LISTED, PROPOSED LUMINAIRES SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER TEN BUSINESS DAYS PRIOR TO BID FOR REVIEW. FINAL DETERMINATION OF 'EQUAL' STATUS FOR BIDDING SHALL BE THE SOLE DETERMINATION OF THE ARCHITECT/ENGINEER.

4/18/2025 1:19:37 PM

Farnsworth
GROUP
2211 W. BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com

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ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
04/03/2025

PROJECT:

Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE: 04/03/2025
DESIGNED: TJS/RCW
DRAWN: RCW/DGM
REVIEWED: TJS

SHEET TITLE:

SCHEDULES

SHEET NUMBER:

E5.1

PROJECT NO.: 02401781.001

PANELBOARD A-LK-1

VOLTAGE:	208/120V				CONNECTED LOAD PER PHASE						ISOLATED GROUND BUS (Y/N):		N						
PHASE / WIRE:	3Ø / 4W										BUSSING:		SEE SPEC						
RATED AMPERAGE:	150 A				A		B		C		MOUNTING:		RECESSED						
MAIN:	150 A MCB										MCB GROUND FAULT PROTECTION (Y/N):		N						
SCC RATING (SYM):	22kA				3263 VA		3127 VA		3238 VA		MCB SHUNT TRIP (Y/N):		N						
					27 A		26 A		27 A		MCB 100% RATED (Y/N):		N						

CKT	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES	A		B		C		POLES	BKR SIZE	TYPE (*)	IDENTIFICATION	CKT
1	LGHTS-MATERIAL CENT.-LIB.		20 A	1	100	100					1	20 A		GEN. STOR.-OFF. KIT. STOR.-10	2
3	LGTS.-LIB.		20 A	1			100	100			1	20 A		REC.-KITCHEN OFFICE ICE BOX	4
5	LGTS.-RM. 200 CORR. UN. H.		20 A	1					100	100	1	20 A		LGTS.-RM. KITCHEN UN. HEATER	6
7	REC. RM. 200 LIB.		20 A	1	100	100					1	20 A		REC.-KITCHEN DISHWASHING	8
9	REC. MULT. PUR. EA. & EA.SO.SD		20 A	1			100	528			1	20 A		EXHAUST FAN (E)EF 7	10
11	RE. STOR. KIT. STOR. U. H. REC.		20 A	1					100	100	1	20 A		REC. MUL. PUR RM. WATER...	12
13	PORTABLE SLICER		20 A	1	100	100					1	20 A		REFRIGERATOR	14
15	U.H. CORR. EAST ENT.		20 A	1			100	100			1	20 A		FLOOR REC.	16
17	REC. MAT. CENTER LIB.		20 A	1					100	100	1	20 A		REC.-SC.WALL OF KITCHEN	18
19	CLOCK TRANS.		20 A	1	0	100					1	20 A		30 QT. MIXER	20
21	EXHASUT FAN (E)EF 5		20 A	1			696	100			1	20 A		REC. IN FREEZER TOP	22
23	EXHAUST FAN EF 1		20 A	2					1435	100	1	20 A		COOLER LIGHTS WALK IN	24
25					1435	528					1	20 A		EXHAUST FAN (E)EF 6	26
27	EXHAUST FAN EF 2		20 A	2			603	100			1	20 A		VEGETABLE PEELER	28
29									603	100	1	20 A		PORTABLE CUTTER	30
31	CIRC 31		20 A	2	100	100					2	20 A		CIRC 32	32
33							100	100							34
35	SPARE		20 A	1					0	0	1	20 A		SPARE	36
37	CIRC 33		20 A	3	100	100					3	20 A		CIRC 34	38
39							100	100							40
41									100	100					42
43	CIRC 35		40 A	3	100	100					3	20 A		CIRC 36	44
45							100	100							46
47									100	100					48

Load Classification	Connected Load	Demand Factor	Demand Load	PANEL TOTALS	
Motor	5828 VA	112.31%	6546 VA		
				TOTAL CONNECTED LOAD:	9628 VA
				TOTAL DEMAND:	10346 VA
				TOTAL CONNECTED CURRENT:	27 A
				TOTAL DEMAND CURRENT:	29 A

NOTES:
1. ALL BREAKERS ARE STANDARD UNLESS OTHERWISE NOTED
2. (*) NUMBER INDICATES BREAKER TYPE: 1 = AFCI, 2 = CLASS A 5mA GFCI, 3 = 30mA GFPE, 4 = SHUNT TRIP ACTIVATED, 5 = PANELBOARD FEEDER SERVING UNIT SHALL BE LOCKABLE USING A PADLOCK, IN ACCORDANCE WITH OSHA LOCK-OUT-TAG RULES, 6 = LSI, 7 = LSIG.

PANELBOARD A-LB-1

VOLTAGE:	208/120V				CONNECTED LOAD PER PHASE						ISOLATED GROUND BUS (Y/N):		N						
PHASE / WIRE:	3Ø / 4W										BUSSING:		SEE SPEC						
RATED AMPERAGE:	225 A				A		B		C		MOUNTING:		SURFACE	1					
MAIN:	225 A MCB										MCB GROUND FAULT PROTECTION (Y/N):		N						
SCC RATING (SYM):	22kA				1628 VA		640 VA		528 VA		MCB SHUNT TRIP (Y/N):		N						
					14 A		5 A		4 A		MCB 100% RATED (Y/N):		N						

CKT	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES	A		B		C		POLES	BKR SIZE	TYPE (*)	IDENTIFICATION	CKT
1	RCPT - ROOFOTP		20 A	1	900	--					1	--		SPACE	2
3	Receptacle		20 A	1			540	0			1	20 A		SPARE	4
5	SPARE		20 A	1					0	0	1	20 A		SPARE	6
7	SPARE		20 A	1	0	0					1	20 A		SPARE	8
9	SPARE		20 A	1			0	0			1	20 A		SPARE	10
11	SPARE		20 A	1					0	0	1	20 A		SPARE	12
13	SPARE		20 A	1	0	0					1	20 A		SPARE	14
15	SPARE		20 A	1			0	0			1	20 A		SPARE	16
17	SPARE		20 A	1					0	0	1	20 A		SPARE	18
19	SPARE		20 A	1	0	0					1	20 A		SPARE	20
21	SPARE		20 A	1			0	0			1	20 A		SPARE	22
23	SPARE		20 A	1					0	0	1	20 A		SPARE	24
25	COR. LGT. CON CONTROL		20 A	1	100	0					1	20 A		SPARE	26
27	ENDMUL. PUR., LGTS. CON....		20 A	1			100	0			1	20 A		SPARE	28
29	SPARE		20 A	1					0	528	1	20 A		EXHASUT FAN (E)EF 3	30
31	SPARE		20 A	1	100	528					1	20 A		EXHASUT FAN (E)EF 4	32
33	RECEPTACLE SPEECH		20 A	1			0	0			1	20 A		SPARE	34
35	SPARE		20 A	1					0	0	1	20 A		SPARE	36

Load Classification	Connected Load	Demand Factor	Demand Load	PANEL TOTALS	
Motor	1056 VA	112.50%	1188 VA		
Receptacle	1440 VA	100.00%	1440 VA		
				TOTAL CONNECTED LOAD:	2796 VA
				TOTAL DEMAND:	2928 VA
				TOTAL CONNECTED CURRENT:	8 A
				TOTAL DEMAND CURRENT:	8 A

NOTES:
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2. (*) NUMBER INDICATES BREAKER TYPE: 1 = AFCI, 2 = CLASS A 5mA GFCI, 3 = 30mA GFPE, 4 = SHUNT TRIP ACTIVATED, 5 = PANELBOARD FEEDER SERVING UNIT SHALL BE LOCKABLE USING A PADLOCK, IN ACCORDANCE WITH OSHA LOCK-OUT-TAG RULES, 6 = LSI, 7 = LSIG.

PANELBOARD A-LK-2

VOLTAGE:	208/120V				CONNECTED LOAD PER PHASE						ISOLATED GROUND BUS (Y/N):		N						
PHASE / WIRE:	3Ø / 4W										BUSSING:		SEE SPEC						
RATED AMPERAGE:	150 A				A		B		C		MOUNTING:		RECESSED						
MAIN:	150 A MCB										MCB GROUND FAULT PROTECTION (Y/N):		N						
SCC RATING (SYM):	22kA				1500 VA		1000 VA		1000 VA		MCB SHUNT TRIP (Y/N):		N						
					13 A		8 A		8 A		MCB 100% RATED (Y/N):		N						

CKT	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES	A		B		C		POLES	BKR SIZE	TYPE (*)	IDENTIFICATION	CKT
1	SPARE		20 A	1	0	1000					1	20 A		DISHWASHER	2
3	KITCHEN DISPOSER		20 A	1			500	500			1	20 A		HOT FOOD TABLE	4
5	OVEN		20 A	1					500	500	1	20 A		REFRIGERATOR	6
7					0	500									8
9	SPARE		20 A	3			0	0			3	20 A		U. VENTS IN RM 200-MAT.CEN.-L1	10
11									0	0					12
13					0	0									14
15	SPARE		20 A	3			0	0			3	20 A		FREEZER VICTOR-REACH-IN	16
17									0	0					18
19					0	0									20
21	SPARE		20 A	3			0	0			2	20 A		SPARE	22
23									0	0	1	20 A		SPARE	24
25					0	0					1	20 A		SPARE	26
27	SPARE		30 A	3			0	0			1	20 A		SPARE	28
29									0	0	1	20 A		SPARE	30

Load Classification	Connected Load	Demand Factor	Demand Load	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	3500 VA
				TOTAL DEMAND:	3500 VA
				TOTAL CONNECTED CURRENT:	10 A
				TOTAL DEMAND CURRENT:	10 A

NOTES:
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PANELBOARD A-LB-2

VOLTAGE:	208/120V				CONNECTED LOAD PER PHASE						ISOLATED GROUND BUS (Y/N):		N						
PHASE / WIRE:	3Ø / 4W										BUSSING:		SEE SPEC						
RATED AMPERAGE:	225 A				A		B		C		MOUNTING:		SURFACE	1					
MAIN:	225 A MCB										MCB GROUND FAULT PROTECTION (Y/N):		N						
SCC RATING (SYM):	22kA				2696 VA		2000 VA		2000 VA		MCB SHUNT TRIP (Y/N):		N						
					22 A		17 A		17 A		MCB 100% RATED (Y/N):		N						

CKT	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES	A		B		C		POLES	BKR SIZE	TYPE (*)	IDENTIFICATION	CKT
1	SW GYM LIGHTS		20 A	1	500	500					1	20 A		SE GYM LIGHTS	2
3	SW GYM LIGHTS		20 A	1			500	500			1	20 A		SE GYM LIGHTS	4
5	SW GYM LIGHTS		20 A	1					500	500	1	20 A		SE GYM LIGHTS	6
7	SW GYM LIGHTS		20 A	1	500	500					1	20 A		SE GYM LIGHTS	8
9	SW GYM LIGHTS		20 A	1			500	500			1	20 A		SE GYM LIGHTS	10
11	SW GYM LIGHTS		20 A	1					500	500	1	20 A		SE GYM LIGHTS	12
13	EXHAUST FAN (E)EF 1		20 A	1	696	0					1	20 A		SPARE	14
15	SPARE		20 A	1			0	0			1	20 A		SPARE	16
17	SPARE		20 A	1					0	0	1	20 A		SPARE	18
19					0	0									20
21	SPARE		20 A	3			0	0			3	20 A		SPARE	22
23									0	0					24
25					0	0									26
27	SPARE		20 A	3			0	0			3	20 A		SPARE	28
29									0	0					30
31					0	0									32
33	SPARE		20 A	3			0	0			3	20 A		SPARE	34
35									0	0					36

Load Classification	Connected Load	Demand Factor	Demand Load	PANEL TOTALS	
Motor	696 VA	125.00%	870 VA		
				TOTAL CONNECTED LOAD:	6696 VA
				TOTAL DEMAND:	6870 VA
				TOTAL CONNECTED CURRENT:	19 A
				TOTAL DEMAND CURRENT:	19 A

NOTES:
1. ALL BREAKERS ARE STANDARD UNLESS OTHERWISE NOTED
2. (*) NUMBER INDICATES BREAKER TYPE: 1 = AFCI, 2 = CLASS A 5mA GFCI, 3 = 30mA GFPE, 4 = SHUNT TRIP ACTIVATED, 5 = PANELBOARD FEEDER SERVING UNIT SHALL BE LOCKABLE USING A PADLOCK, IN ACCORDANCE WITH OSHA LOCK-OUT-TAG RULES, 6 = LSI, 7 = LSIG.

Farnsworth GROUP
2211 W. BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com
www.f-w.com
Engineers | Architects | Surveyors | Scientists

ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
04/03/2025

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	TJS/RCW
DRAWN:	RCW/DGM
REVIEWED:	TJS

SHEET TITLE:
SCHEDULES

SHEET NUMBER:
E5.3

PROJECT NO.: 02401781.001

4/18/2025 1:19:41 PM

PANELBOARD A-LC-1

VOLTAGE:	208/120V			CONNECTED LOAD PER PHASE						ISOLATED GROUND BUS (Y/N):	N						
PHASE / WIRE:	3Ø / 4W									BUSSING:	SEE SPEC						
RATED AMPERAGE:	150 A			A		B		C		MOUNTING:	SURFACE 1						
MAIN:	150 A MCB									MCB GROUND FAULT PROTECTION (Y/N):	N						
SCC RATING (SYM):	22kA			2998 VA		2820 VA		2408 VA		MCB SHUNT TRIP (Y/N):	N						
				26 A		24 A		20 A		MCB 100% RATED (Y/N):	N						
CKT	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES	A		B		C		POLES	BKR SIZE	TYPE (*)	IDENTIFICATION			CKT
1	LIGHTS-RM. 103 & TOILETS		20 A	1	100	100					1	20 A		LIGHTS-RM. 102			2
3	LIGHTS-RM. 104		20 A	1			100	100			1	20 A		LIGHTS-RM. 101 & TOILETS			4
5	LIGHTS-RM. 104		20 A	1					100	100	1	20 A		LIGHTS-NORTH CORIDOR			6
7	LIGHTS-WORK RM PRINC...		20 A	1	100	100					1	20 A		LIGHTS-ARTS &...			8
9	LIGHTS-OFF. SUP. ARTS &...		20 A	1			100	100			1	20 A		LIGHTS-SECT. WAITING-HEALT...			10
11	LIGHTS-SPEECH THERAPY		20 A	1					100	100	1	20 A		P.A. TERMINAL CABINET			12
13	LIGHTS-NORTH LIGHTS		20 A	1	100	100					1	20 A		MASTER CLOCK			14
15	REC. ARTS-CRAFTS SPEECH...		20 A	1			100	100			1	20 A		REC.RM.101-102 FOLD...			16
17	REC.OFF.SUPPLY...		20 A	1					100	100	1	20 A		REC.RM 103-104 PROGRAM BELL			18
19	REC.SPEECH THERAPY-CORR.		20 A	1	100	1260					1	20 A		REC. HEALTH & WORK ROOM			20
21	REC. PRINCIPAL OFFICE SIGN		20 A	1			900	360			1	20 A		REC. SECRETARY COUNTER			22
23	REC. SEC Y. WAITING		20 A	1					540	528	1	20 A		EXHASUT FAN (E)EF 8			24
25	REC.VAULT & WATER COOLERS		20 A	1	100	528					1	20 A		EXHAUST FAN (E)EF 9			26
27	SPARE		20 A	1			0	400			1	20 A		DOOR OPERATOR			28
29	SPARE		30 A	2					0	180	1	20 A		SECRETARY SECURITY DISPLAY			30
31					0	50					1	20 A		PASS THROUGH SPEAKER			32
33	UNIT VENTS SPEECH THEREPY		30 A	2			100	100			2	20 A		UNIT VENTS - ART SPEECH			34
35									100	100							36
37	RCPT SECRETARY 141		20 A	1	360	0					3	50 A		SPARE			38
39	RCPT SECRETARY 141		20 A	1			360	0									40
41	RCPT SECRETARY 141		20 A	1					360	0							42

Load Classification	Connected Load	Demand Factor	Demand Load	PANEL TOTALS	
Motor	1056 VA	112.50%	1188 VA		
Receptacle	4320 VA	100.00%	4320 VA	TOTAL CONNECTED LOAD:	8226 VA
Other Non-Continuous Load	400 VA	100.00%	400 VA	TOTAL DEMAND:	8358 VA
				TOTAL CONNECTED CURRENT:	23 A
				TOTAL DEMAND CURRENT:	23 A

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PANELBOARD A-LD-1

VOLTAGE:	208/120V			CONNECTED LOAD PER PHASE						ISOLATED GROUND BUS (Y/N):	N						
PHASE / WIRE:	3Ø / 4W									BUSSING:	SEE SPEC						
RATED AMPERAGE:	200 A			A		B		C		MOUNTING:	RECESSED						
MAIN:	200 A MCB									MCB GROUND FAULT PROTECTION (Y/N):	N						
SCC RATING (SYM):	22kA			3900 VA		3800 VA		3800 VA		MCB SHUNT TRIP (Y/N):	N						
				33 A		32 A		32 A		MCB 100% RATED (Y/N):	N						
CKT	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES	A		B		C		POLES	BKR SIZE	TYPE (*)	IDENTIFICATION			CKT
1	SPACE		--	1	--	--					1	--		SPACE			2
3	SPACE		--	1			--	--			1	--		SPACE			4
5	SPACE		--	1					--	--	1	--		SPACE			6
7	RIC. 106-108 NS CORR. SO. COR		20 A	1	100	--					1	--		SPACE			8
9	SPARE		20 A	1			0	100			1	20 A		LIGHTS 108			10
11	SPARE		20 A	1					0	100	1	20 A		LIGHTS 106			12
13	SPARE		20 A	1	0	100					1	20 A		LIGHTS 109			14
15	SPARE		20 A	1			0	100			1	20 A		LIGHTS 110			16
17	SPARE		20 A	1					0	100	1	20 A		LIGHTS 109			18
19	RECP. STAFF WORK RM		20 A	1	100	100					1	20 A		LIGHTS 107			20
21	REC 105		20 A	1			100	100			1	20 A		W.R. COPIER			22
23	REC 107 W CORR		20 A	1					100	100	1	20 A		LIGTS WEST CORR			24
25	LIGHTS 107-LOB-COURT		20 A	1	100	100					1	20 A		LIGHTS BOYS GIRLS TOILETS			26
27	LIGHT SO. CORR.		20 A	1			100	100			1	20 A		LIGHTS 115 + TOILETS			28
29	WATER COOLER SO. CORR		20 A	1					100	100	1	20 A		LIGHTS 111			30
31	REC 109 110 111		20 A	1	100	100					1	20 A		LIGHTS 112			32
33	SPARE		20 A	2			100	100			1	20 A		LIGHTS SOUTH CORR			34
35									100	100	1	20 A		LIGHTS 108			36
37					3000	100					1	20 A		LIGHTS STAFF WORK			38
39	KITCHEN UNIT		60 A	3			3000	0			2	20 A		SPARE			40
41									3000	0							42

Load Classification	Connected Load	Demand Factor	Demand Load	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	11500 VA
				TOTAL DEMAND:	11500 VA
				TOTAL CONNECTED CURRENT:	32 A
				TOTAL DEMAND CURRENT:	32 A

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PANELBOARD A-LF-1

VOLTAGE:	208/120V			CONNECTED LOAD PER PHASE						ISOLATED GROUND BUS (Y/N):	N						
PHASE / WIRE:	3Ø / 4W									BUSSING:	SEE SPEC						
RATED AMPERAGE:	150 A			A		B		C		MOUNTING:	RECESSED						
MAIN:	150 A MLO									MCB GROUND FAULT PROTECTION (Y/N):	N						
SCC RATING (SYM):	22kA			200 VA		300 VA		300 VA		MCB SHUNT TRIP (Y/N):	N						
				2 A		3 A		3 A		MCB 100% RATED (Y/N):	N						
CKT	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES	A		B		C		POLES	BKR SIZE	TYPE (*)	IDENTIFICATION			CKT
1	209		20 A	1	100	0					1	20 A		SPARE			2
3	210		20 A	1			100	0			1	20 A		SPARE			4
5	SPARE		20 A	1					0	100	1	20 A		211			6
7	SPARE		20 A	1	0	0					1	20 A		SPARE			8
9	SPEED ROOM		20 A	1			100	0			1	20 A		SPARE			10
11	SPARE		20 A	1					0	100	1	20 A		GREEN HOUSE			12
13	SPARE		20 A	1	0	100					1	20 A		208 PLUGS			14
15	SPARE		20 A	1			0	0			1	20 A		SPARE			16
17	SPARE		20 A	1					0	0	1	20 A		SPARE			18
19	SPARE		20 A	1	0	0					1	20 A		SPARE			20
21	C		20 A	1			0	0			1	20 A		SPARE			22
23	SPARE		20 A	1					0	0	1	20 A		SPARE			24
25	SPARE		20 A	1	0	0					1	20 A		SPARE			26
27	NEW COPIER		20 A	2			100	0			2	20 A		SPARE			28
29									100	0							30
31	SPARE		20 A	3	0	0					1	20 A		SPARE			32
33							0	0			1	20 A		SPARE			34
35									0	0	1	20 A		SPARE			36

Load Classification	Connected Load	Demand Factor	Demand Load	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	800 VA
				TOTAL DEMAND:	800 VA
				TOTAL CONNECTED CURRENT:	2 A
				TOTAL DEMAND CURRENT:	2 A

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PANELBOARD A-LG-1

VOLTAGE:	208/120V			CONNECTED LOAD PER PHASE						ISOLATED GROUND BUS (Y/N):	N						
PHASE / WIRE:	3Ø / 4W									BUSSING:	SEE SPEC						
RATED AMPERAGE:	150 A			A		B		C		MOUNTING:	RECESSED						
MAIN:	150 A MLO									MCB GROUND FAULT PROTECTION (Y/N):	N						
SCC RATING (SYM):	22kA			300 VA		100 VA		400 VA		MCB SHUNT TRIP (Y/N):	N						
				3 A		1 A		4 A		MCB 100% RATED (Y/N):	N						
CKT	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES	A		B		C		POLES	BKR SIZE	TYPE (*)	IDENTIFICATION			CKT
1	SPARE		20 A	1	0	100					1	20 A		EAST/WEST HALL LIGHTS			2
3	SPARE		20 A	1			0	0			1	20 A		SPARE			4
5	ROOM 202		20 A	1					100	100	1	20 A		ROOM 204			6
7	SPARE		20 A	1	0	100					1	20 A		ROOM 208			8
9	SPARE		20 A	1			0	100			1	20 A		ROOM 205			10
11	ROOM 201 OUTLETS		20 A	1					100	0	1	20 A		SPARE			12
13	SPARE		20 A	1	0	0					1	20 A		SPARE			14
15	SPARE		20 A	1			0	0			1	20 A		SPARE			16
17	SPARE		20 A	1					0	0	1	20 A		SPARE			18
19	SPARE		20 A	1	0	0					1	20 A		SPARE			20
21	SPARE		20 A	1			0	0			1	20 A		SPARE			22
23	SPARE		20 A	1					0	100	2	20 A		CORN'S ROOM			24
25	SPARE		20 A	3	0	100											26
27							0	0			2	20 A		SPARE			28
29									0	0							30

Load Classification	Connected Load	Demand Factor	Demand Load	PANEL TOTALS	
				TOTAL CONNECTED LOAD:	800 VA
				TOTAL DEMAND:	800 VA
				TOTAL CONNECTED CURRENT:	2 A
				TOTAL DEMAND CURRENT:	2 A

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Farnsworth GROUP
2211 W. BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com
www.f-w.com
Engineers | Architects | Surveyors | Scientists

ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
04/03/2025

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE:	04/03/2025
DESIGNED:	TJS/RCW
DRAWN:	RCW/DGM
REVIEWED:	TJS

SHEET TITLE:
SCHEDULES

SHEET NUMBER:
E5.4

PROJECT NO.: 02401781.001

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PANELBOARD A-BR-1

VOLTAGE:	208/120V	CONNECTED LOAD PER PHASE		ISOLATED GROUND BUS (Y/N):	N
PHASE / WIRE:	3Ø / 4W			BUSSING:	SEE SPEC
RATED AMPERAGE:	225 A	A	B	C	MOUNTING:	SURFACE
MAIN:	225 A MCB				MCB GROUND FAULT PROTECTION (Y/N):	N
SCC RATING (SYM):	22kA	7300 VA	7228 VA	7100 VA	MCB SHUNT TRIP (Y/N):	N
		61 A	60 A	59 A	MCB 100% RATED (Y/N):	N

CKT	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES	A		B		C		POLES	BKR SIZE	TYPE (*)	IDENTIFICATION	CKT
1	CODED RELAY		20 A	1	100	100					1	20 A		HOT WATER HEATER	2
3	E.N. BUILDING LIGHTS		20 A	1			100	100			1	20 A		HOT WATER CIRC PUMP	4
5	PARKING POLE LIGHTS		20 A	1					100	100	1	20 A		BOILER RM LIGHTS	6
7	S.W. BUILDING LIGHTS		20 A	1	100	100					1	20 A		UH-1	8
9	EXHASUT FAN (E)EF 6		20 A	1			528	100			1	20 A		BOILER ROOM RCPT	10
11	SPARE		20 A	1					0	100	1	20 A		AIR DRYER	12
13					100	100									14
15	BLR-1		15 A	3			100	100			3	20 A		AIR COMPRESSOR	16
17									100	100					18
19					0	3000									20
21	SPARE		30 A	3			0	3000			3	60 A		PUMP #1	22
23									0	3000					24
25	BARBER COLMAN PANEL		20 A	1	100	500					1	20 A		BSC COIL	26
27	BLR. RM. EXHASUT FAN		20 A	1			100	0			1	20 A		SPARE	28
29	INCINERATOR		20 A	1					100	0	1	20 A		SPARE	30
31	PUMP SHUT DOWN ALARM		20 A	1	100	3000									32
33	TRANE TCP'S		20 A	1			100	3000			3	60 A		PUMP #2	34
35	EM GAS SHUT OFF		20 A	1					500	3000					36
37					0	0									38
39	SPARE		30 A	3			0	0			3	50 A		SPARE	40
41									0	0					42

Load Classification	Connected Load	Demand Factor	Demand Load	PANEL TOTALS	
Motor	528 VA	125.00%	660 VA		
				TOTAL CONNECTED LOAD:	21628 VA
				TOTAL DEMAND:	21760 VA
				TOTAL CONNECTED CURRENT:	60 A
				TOTAL DEMAND CURRENT:	60 A

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PANELBOARD A-LH-1

VOLTAGE:	208/120V	CONNECTED LOAD PER PHASE		ISOLATED GROUND BUS (Y/N):	N
PHASE / WIRE:	3Ø / 4W			BUSSING:	SEE SPEC
RATED AMPERAGE:	400 A	A	B	C	MOUNTING:	SURFACE
MAIN:	400 A MLO				MCB GROUND FAULT PROTECTION (Y/N):	N
SCC RATING (SYM):	42kA	37720 VA	37698 VA	37838 VA	MCB SHUNT TRIP (Y/N):	N
		314 A	314 A	315 A	MCB 100% RATED (Y/N):	N

CKT	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES	A		B		C		POLES	BKR SIZE	TYPE (*)	IDENTIFICATION	CKT
1	DSU 1.1 - X109 CLASSROOM		20 A	1	55	5757					1	20 A		HOT WATER HEATER	2
3	DSU 1.2 - X110 CLASSROOM		20 A	1			55	5757			3	100 A		HEAT PUMP (HP 2)	4
5	DSU 1.3 - X111 CLASSROOM		20 A	1					88	5757					6
7	DSU 1.4 - X113 CLASSROOM		20 A	1	55	5098									8
9	DSU 1.5 - X115 CLASSROOM		20 A	1			55	5098			3	90 A		AIR HANDLING UNIT (AHU 1)	10
11	DSU 1.6 - X117 CLASSROOM		20 A	1					28	5098					12
13	DSU 1.7 - X121 CLASSROOM		20 A	1	88	5098									14
15	DSU 1.8 - X119 CLASSROOM		20 A	1			55	5098			3	90 A		AIR HANDLING UNIT (AHU 2)	16
17	DSI 1.9 - X112 CLASSROOM		20 A	1					88	5098					18
19	DSU 1.10 - X114 CLASSROOM		20 A	1	55	5098									20
21	DSU 1.11 - X116 CLASSROOM		20 A	1			55	5098			3	90 A		AIR HANDLING UNIT (AHU 3)	22
23	DSU 1.12 - X118 CLASSROOM		20 A	1					55	5098					24
25	DSU 1.13 - X120 CLASSROOM		20 A	1	88	5098									26
27							5374	5098			3	90 A		AIR HANDLING UNIT (AHU 4)	28
29	HEAT PUMP (HP 1A)		90 A	3					5374	5098					30
31					5374										32
33							5757	100			1	20 A		TIME CLOCKS	34
35	HEAT PUMP (HP 1B)		100 A	3					5757	100	1	20 A		TIME CLOCKS	36
37					5757	100					1	20 A		TIME CLOCK / EXIT LIGHTS	38
39	SPARE		20 A	1			0	100			1	20 A		EXIT LIGHTS	40
41	FIRE ALARM / CONVENINCE...		20 A	1					100	100	1	20 A		EXIT LIGHTS	42

Load Classification	Connected Load	Demand Factor	Demand Load	PANEL TOTALS	
Motor	111838 VA	103.86%	116156 VA		
HVAC	819 VA	100.00%	819 VA		
				TOTAL CONNECTED LOAD:	113256 VA
				TOTAL DEMAND:	117574 VA
				TOTAL CONNECTED CURRENT:	314 A
				TOTAL DEMAND CURRENT:	326 A

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PANELBOARD A-LH-2

VOLTAGE:	208/120V	CONNECTED LOAD PER PHASE		ISOLATED GROUND BUS (Y/N):	N
PHASE / WIRE:	3Ø / 4W			BUSSING:	SEE SPEC
RATED AMPERAGE:	225 A	A	B	C	MOUNTING:	SURFACE
MAIN:	225 A MLO				MCB GROUND FAULT PROTECTION (Y/N):	N
SCC RATING (SYM):	22kA	20229 VA	18038 VA	17551 VA	MCB SHUNT TRIP (Y/N):	N
		169 A	151 A	146 A	MCB 100% RATED (Y/N):	N

CKT	IDENTIFICATION	TYPE (*)	BKR SIZE	POLES	A		B		C		POLES	BKR SIZE	TYPE (*)	IDENTIFICATION	CKT
1	DSU 2.1 - X141 CLASSROOM		20 A	1	122	2399									2
3	DSU 2.2 - X143 CLASSROOM		20 A	1			122	2399			3	35 A		ROOF TOP UNIT (RTU 1)	4
5	DSU 2.3 - X144 CLASSROOM		20 A	1					55	2399					6
7	DSU 2.4 - X145 CLASSROOM		20 A	1	55	2399									8
9	DSU 2.5 - X128 CLASSROOM		20 A	1			88	2399			3	35 A		ROOF TOP UNIT (RTU 2)	10
11	DSU 2.6 - X127 CLASSROOM		20 A	1					55	2399					12
13	DSU 2.7 - X107 CLASSROOM		20 A	1	28	3167									14
15	DSU 2.8 - X108 CLASSROOM		20 A	1			55	3167			3	45 A		ROOF TOP UNIT (RTU 3)	16
17	DSU 3.1 - X136 CLASSROOM		20 A	1					122	3167					18
19	DSU 3.2 - X135 CLASSROOM		20 A	1	55	5757									20
21	DSU 3.3 - X134 CLASSROOM		20 A	1			55	5757			3	100 A		HEAT PUMP (HP 3)	22
23	DSU 3.4 - X137 CLASSROOM		20 A	1					88	5757					24
25	DSU 3.5 - X138 CLASSROOM		20 A	1	88	3744									26
27	DSU 3.6 - X139 CLASSROOM		20 A	1			88	3744			2	80 A		HEAT PUMP (HP 6)	28
29	DSU 3.7 - X140 CLASSROOM		20 A	1					122	--	1	--		SPACE	30
31	DSU 3.8 - X142 CLASSROOM		20 A	1	28	0					1	20 A		FIRE ALARM	32
33	DSU 6.1 - X133B PRINCIPALS		20 A	1			164	0			1	20 A		DOOR OPERATORS	34
35										2388	2	50 A		HEAT PUMP (HP 7)	36
37						2388									38
39	SPARE		20 A	1			0	--			1	--		SPACE	40
41	ROOF CONVENIENCE OUTLETS		20 A	1					1000	--	1	--		SPACE	42

Load Classification	Connected Load	Demand Factor	Demand Load	PANEL TOTALS	
Motor	53429 VA	108.08%	57747 VA		
HVAC	1389 VA	100.00%	1389 VA		
				TOTAL CONNECTED LOAD:	55818 VA
				TOTAL DEMAND:	60136 VA
				TOTAL CONNECTED CURRENT:	155 A
				TOTAL DEMAND CURRENT:	167 A

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Farnsworth GROUP
2211 W. BRADLEY AVENUE
CHAMPAIGN, ILLINOIS 61821
(217) 352-7408 / info@f-w.com
www.f-w.com
Engineers | Architects | Surveyors | Scientists

ISSUE:

#	DATE:	DESCRIPTION:
1	04/17/2025	ADD 01

Bid Set
04/03/2025

PROJECT:
Robinson CUSD #2

Washington Elementary Renovation & Addition

507 W. Condit St. Robinson, IL 62454

DATE: 04/03/2025
DESIGNED: TJS/RCW
DRAWN: RCW/DGM
REVIEWED: TJS

SHEET TITLE:
SCHEDULES

SHEET NUMBER:
E5.5

PROJECT NO.: 02401781.001

SECTION 00 0115 - LIST OF DRAWING SHEETS

GENERAL

G0.1 GENERAL INFORMATION

LS1.1 LIFE SAFETY PLAN

CIVIL

C0.1 GENERAL NOTES

SP1.0 SPECIFICATIONS

SP2.0 SPECIFICATIONS

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C1.1 PROPOSED SITE & UTILITY PLAN

C2.1 PROPOSED GRADING PLAN

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D1.2 SITE DETAILS

D1.3 SITE DETAILS

D1.4 SITE DETAILS

D1.5 SITE DETAILS

LANDSCAPE

L1.1 OVERALL LAYOUT PLAN

L1.2 NORTH PLAYGROUND LAYOUT PLAN

L1.3 COURTYARD PLAYGROUND LAYOUT PLAN

L1.4 SOUTH PLAYGROUND LAYOUT PLAN

L2.1 PLAYGROUND SITE DETAILS

L2.2 PLAYGROUND SITE EQUIPMENT

L3.1 PLANTING PLAN

L3.2 NORTH PLANTING PLAN ENLARGEMENT L4.1 PLANTING DETAILS

L3.3 WEST PLANTING PLAN ENLARGEMENT

L4.1 PLANTING DETAILS (ADD 01)

STRUCTURAL

S0.1 GENERAL INFORMATION

S0.2 GENERAL INFORMATION

S0.3 GENERAL INFORMATION

S1.1A FOUNDATION PLAN - AREA A

S1.1B FOUNDATION PLAN - AREA B

S1.1C FOUNDATION PLAN - AREA C

S1.2A CANOPY FOUNDATION PLAN - AREA A

S1.3A SLAB AND CONTROL JOINT PLAN - AREA A

S1.3B SLAB AND CONTROL JOINT PLAN - AREA B

S1.3C SLAB AND CONTROL JOINT PLAN - AREA C

S2.1A ROOF FRAMING PLAN - AREA A

S2.1B ROOF FRAMING PLAN - AREA B

S2.1C ROOF FRAMING PLAN - AREA C

S2.2A CANOPY FRAMING PLAN - AREA A

S2.3E EXISTING ROOF FRAMING PLAN

S3.1 FOUNDATION DETAILS

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S4.2 FRAMING DETAILS

S5.1 COLUMN SCHEDULE AND BASE PLATES

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ARCHITECTURAL

A0.1 GENERAL INFORMATION

AD1.1 DEMOLITION PLANS

A1.1 OVERALL FLOOR PLAN

A1.1A ENLARGED FLOOR PLAN - AREA A

A1.1B ENLARGED FLOOR PLAN - AREA B

A1.1C ENLARGED FLOOR PLAN - AREA C

A2.1 OVERALL ROOF PLAN

A2.1A ROOF PLAN - AREA A

A2.1B ROOF PLAN - AREA B

A2.1C ROOF PLAN - AREA C

A2.2 ROOF DETAILS

A2.3 ROOF DETAILS

A2.4 CANOPY DETAILS

A2.5 CANOPY DETAILS (ADD 01)

A3.1 EXTERIOR ELEVATIONS

A3.2 EXTERIOR ELEVATIONS

A3.3 EXTERIOR SIGNAGE DETAILS

A4.1 BUILDING SECTIONS

A4.2 BUILDING SECTIONS

A5.1 WALL SECTIONS - AREA A

A5.2 WALL SECTIONS - AREA A

A5.3 WALL SECTIONS - AREA A

A5.4 WALL SECTIONS - AREA A

A5.5 WALL SECTIONS - AREA B

A5.6 WALL SECTIONS - AREA B

A5.7 WALL SECTIONS - AREA C

A5.8 EXTERIOR DETAILS

A5.9 EXTERIOR DETAILS

A5.10 EXTERIOR DETAILS

A6.1 VERTICAL CIRCULATION PLANS, SECTIONS AND DETAILS

A7.1 PARTITION TYPES

A7.2 DOOR SCHEDULE, ELEVATIONS AND DETAILS

A7.3 GLAZING ELEVATIONS

A7.3.1 GLAZING ELEVATIONS – WINDOW GRAPHICS (ADD 01)

A7.4 GLAZING DETAILS

A7.5 GLAZING DETAILS

A8.0 TYPICAL CASEWORK DETAILS

A8.1 TYPICAL CASEWORK DETAILS

A8.2 PRESCHOOL INTERIOR ELEVATIONS AND ENLARGED PLANS

A8.3 KINDERGARTEN INTERIOR ELEVATIONS AND ENLARGED PLANS

A8.4 KINDERGARTEN INTERIOR ELEVATIONS AND ENLARGED PLANS

A8.5 RESTROOM INTERIOR ELEVATIONS AND ENLARGED PLANS

A8.6 ADMIN INTERIOR ELEVATIONS AND ENLARGED PLANS

A8.7 ADMIN INTERIOR ELEVATIONS AND ENLARGED PLANS

A8.8 GROSS MOTOR INTERIOR ELEVATIONS AND ENLARGED PLANS

A8.9 GROSS MOTOR INTERIOR ELEVATION

A8.10 CORRIDOR INTERIOR ELEVATIONS

A8.11 CORRIDOR INTERIOR ELEVATIONS

A8.12 VESTIBULE INTERIOR ELEVATIONS AND ENLARGED PLANS

A9.1A REFLECTED CEILING PLAN - AREA A

A9.1B REFLECTED CEILING PLAN - AREA B

A9.1C REFLECTED CEILING PLAN - AREA C

A9.2 CEILING DETAILS

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I1.0 FINISH SCHEDULES AND GENERAL INFORMATION

I0.2 FINISH SCHEDULES (ADD 01)

I1.1 FIRST FLOOR FINISH PLAN

I1.1A ENLARGED FINISH PLAN - AREA A (ADD 01)

I1.1B ENLARGED FINISH PLAN - AREA B (ADD 01)

I1.1C ENLARGED FINISH PLAN - AREA C (ADD 01)

I3.1 INTERIOR WALL BASE FINISH DETAILS

I3.2 INTERIOR FINISH DETAILS

I4.0 SIGNAGE SCHEDULE & DETAILS (ADD 01)

I4.1A ENLARGED SIGNAGE PLAN – AREA A (ADD 01)

I4.1B ENLARGED SIGNAGE PLAN – AREA B (ADD 01)

I4.1C ENLARGED SIGNAGE PLAN – AREA C (ADD 01)

I8.1 ENLARGED FINISH PLANS

I8.2 ENLARGED FINISH PLANS

I8.3 ENLARGED FINISH PLANS

R0.1 INTERIOR RENDERINGS (ADD 01)

FIRE PROTECTION

F0.1 GENERAL INFORMATION

F1.1 FIRE PROTECTION PLAN - OVERALL

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P1.1A PLUMBING UNDERSLAB PLAN - AREA A

P1.1B PLUMBING UNDERSLAB PLAN - AREA B

P1.1C PLUMBING UNDERSLAB PLAN - AREA C

P1.2 PLUMBING DWV PLAN - OVERALL

P1.2A PLUMBING DWV PLAN - AREA A

P1.2B PLUMBING DWV PLAN - AREA B

P1.2C PLUMBING DWV PLAN - AREA C

P1.3 PLUMBING WATER PLAN - OVERALL

P1.3A PLUMBING WATER PLAN - AREA A

P1.3B PLUMBING WATER PLAN - AREA B

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P2.1 PLUMBING ROOF PLAN - OVERALL

P5.1 DIAGRAMS

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M0.1 GENERAL INFORMATION

MD1.1D ENLARGED MECHANICAL DEMOLITION PLAN - AREA D

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MD1.4 OVERALL ROOF MECHANICAL DEMOLITION PLAN

M1.1A ENLARGED VENTILATION FLOOR PLAN - AREA A

M1.1B ENLARGED VENTILATION FLOOR PLAN - AREA B

M1.1C ENLARGED VENTILATION FLOOR PLAN - AREA C

M1.1D ENLARGED VENTILATION FLOOR PLAN - AREA D

M1.1E ENLARGED VENTILATION FLOOR PLAN - AREA E

M1.4 OVERALL ROOF MECHANICAL PLAN

M2.1A ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA A

M2.1B ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA B

M2.1C ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA C

M2.1D ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA D

M2.1E ENLARGED MECHANICAL PIPING FLOOR PLAN - AREA E

M5.1 DIAGRAMS

M5.2 DIAGRAMS

M6.1 SCHEDULES

M6.2 SCHEDULES

M7.1 CONTROLS DIAGRAMS (ADD 01)

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E0.1 GENERAL INFORMATION

E0.2 GENERAL INFORMATION

ED1.1 FIRST FLOOR ELECTRICAL DEMOLITION PLAN

ED1.4 ROOF ELECTRICAL DEMOLITION PLAN (ADD 01)

ES1.1 ELECTRICAL SITE PLAN

E1.0 FIRST FLOOR LIGHTING PLAN - AREA SECRETARY X131

E1.1 FIRST FLOOR LIGHTING PLAN - AREA A

E1.2 FIRST FLOOR LIGHTING PLAN - AREA B

E1.3 FIRST FLOOR LIGHTING PLAN - AREA C

E1.4 FIRST FLOOR LIGHTING ZONE PLAN

E2.0 FIRST FLOOR POWER PLAN - AREA EXISTING

E2.1 FIRST FLOOR POWER PLAN - AREA A

E2.2 FIRST FLOOR POWER PLAN - AREA B

E2.3 FIRST FLOOR POWER PLAN - AREA C

E2.4 ELECTRICAL ROOF PLAN

E2.5 TEMPORARY ELECTRICAL CONNECTIONS

E3.1 FIRST FLOOR SYSTEMS PLAN - AREA A

E3.2 FIRST FLOOR SYSTEMS PLAN - AREA B

E3.3 FIRST FLOOR SYSTEMS PLAN - AREA C

E4.1 ONE-LINE DIAGRAM

E5.1 SCHEDULES

E5.2 SCHEDULES

E5.3 SCHEDULES

E5.4 SCHEDULES

E5.5 SCHEDULES

E5.6 SCHEDULES

E5.7 SCHEDULE

E6.1 DETAILS

E6.2 DETAILS (ADD 01)

END OF SECTION

Three-Year Reinspection Report

Site:

Washington Elementary School
507 W. Condit Street
Robinson, IL 62454

Local Education Agency:

Robinson C.U.S.D. 2
1301 N. Allen Street, P.O. 190
Robinson, IL 62454

Date:

8/6/2024

Ideal Number:

25870

IDEAL ENVIRONMENTAL ENGINEERING, INC.

Reinspection Introduction

According to the federal Environmental Protection Agency's (EPA's) Asbestos Hazard Emergency Response Act (AHERA), at least once every three years from the implementation of a school's initial asbestos inspection and management plan, a reinspection must occur. The reinspection must be completed according to AHERA rules and regulations.

In Illinois, the reinspection must be completed by an EPA/AHERA-accredited, Illinois Department of Public Health (IDPH)-licensed asbestos inspector and performed according to the most recent IDPH reinspection protocol. At the time of this reinspection, the most recent reinspection protocol is published in IDPH's "Asbestos Abatement for Public and Private Schools and Commercial and Public Buildings" dated March 12, 1999.

During a reinspection, an inspector walks through the building to visually reinspect and reassess the condition of all known and assumed friable and non-friable asbestos containing materials. The inspector touches the materials to determine friability and notes any changes in the friability of the materials since the last inspection/reinspection. During a building's first reinspection, the initial inspection report is reviewed and referred to in order to identify known and assumed asbestos containing materials. During subsequent reinspections, the inspector refers to the most recent three-year reinspection report and any intermittent sampling events which are provided to the inspector.

Also, during a reinspection the inspector may note the discovery of any suspect asbestos containing materials which have not been accounted for previously. For example, prior inspections may have omitted some suspect asbestos containing materials, or suspect asbestos containing materials may have become exposed during general renovation projects. The inspector may collect samples of the material(s) to determine asbestos content or document the material(s) as assumed to contain asbestos. In addition, at the school's direction, the inspector may collect samples of previously assumed asbestos materials to determine asbestos content.

The inspector's assessments are reviewed by an EPA/AHERA-accredited, IDPH-licensed asbestos management planner. When assessment information was previously provided, whether it be from the initial inspection or a subsequent reinspection, the assessments for this reinspection will include any changing factors for each material, such as friability, vibration, deterioration, damage, use of room, etc. If the changes warrant revisions to previous response actions, then revised response actions are provided. Revised response action schedules, when provided, are completed by the management planner. When assessment information was *not* previously provided, this reinspection will only provide the current condition of the material.

Reinspection Report Description

The following is a general description of the pages that may be found in this reinspection report.

Reinspection Information
A general information page is followed by an asbestos program overview. The overview, when available, provides a general overview of activities that have occurred since the onset of the asbestos program. After the overview are attestments by the inspector and management planner. They certify that they have performed the reinspection according to reinspection regulations.

The inventory of known and assumed asbestos containing materials (ACM) describes whether or not changes have occurred to the condition of these materials within the last three years and provides the inspector's assessment. It indicates a material's current physical condition and friability, and it summarizes the current response action for each friable material.

Directly following this data may be an inventory of any materials which were assumed to contain asbestos or which were sampled during the reinspection. Recommendations on how to treat these materials are provided.

The reinspection general overview provides comments about the asbestos program.

The policy statement provides procedures that have been/will be/will continue to be taken by the LEA to protect the health of building occupants in relation to asbestos. Upon reviewing the results of the reinspection and concurring with any revised response actions, the LEA completes and signs the policy statement. If the LEA does not agree with the response actions, justifications for any disagreement are to be provided to the management planner so that the concerns can be resolved. [AHERA regulations require that a policy statement is adopted by each LEA. The LEA was to have signed a policy statement during the adoption of the initial asbestos management plan, and this is an updated policy.]

Materials Sampled/Assumed During Reinspection
If sampling or assuming of suspect ACM was done, the purpose will be summarized. Inspection report pages, diagrams, laboratory results and sampling protocol are typical supporting documentation. If sampling or assuming was not done, this section may be omitted from the report.

Response Actions & Amendments
All friable known or assumed ACM requires a response action. Response actions are prepared by management planners and provide the LEA with appropriate actions to take with their asbestos materials (i.e. repair or removal). If a material needs a new or revised response action, detailed documentation is in this section. The management planner will typically use a schematic guideline called a decision tree to assist in determining response actions.

Timelines for completing response actions are prepared by a management planner. If a timeline has not been met for a material (i.e. repair the material within one year), then the response action has expired, and a new timeline is necessary. New timelines are typically implemented by an amendment to the original response action. If amendments are prepared during this reinspection, the information can be found in this section.

If new or revised response actions or timelines were not done, this section may be omitted from the report.

School Information Form
The school information form is required to be filled out and sent to IDPH. This section may contain a transmittal sheet indicating that the completed form was sent to IDPH on the LEA's behalf.

Current license and accreditation certificates are provided for the inspector and management planner. If sampling was done, current accreditation is provided for the laboratory.

General definitions and comments are provided, which help explain some of the terminology of an asbestos program. A general information checklist describing the record-keeping requirements of an asbestos program is also provided.

If you have any questions about the elements of the three-year reinspection report, please do not hesitate to contact IDEAL at (309)828-4259.

General Information Page

The information provided below applies to the school building listed at the time of the reinspection.

School Building:	Washington Elementary School 507 W. Condit Street Robinson, IL 62454 Crawford County
Phone:	618-544-2233
School ID#:	12-017-0020-2007
Approx. Bldg Construction Dates:	1965
Associated Outbuildings:	3 Portable Wooden Sheds, 2 Plastic Portable Sheds

Three-Year Reinspection Date:	8/6/2024
IDEAL Number:	25870

Inspector:	Steve Rock
Inspector ID#:	100-05617
State of Accreditation:	IL

Management Planner:	Jerry L. Wilson
Management Planner ID#:	100-01338
State of Accreditation:	IL

Local Education Agency:	Robinson C.U.S.D. 2 1301 N. Allen Street, P.O. 190 Robinson, IL 62454 Crawford County
Phone:	618-544-7511
Contact:	Mr. Kyle Klier, Superintendent

Asbestos Program Overview

The following is a general overview of activities that have occurred in the building since the onset of the asbestos program. This information has been determined by IDEAL and is based on available asbestos management plan information and available general building information. This information is provided for general informational purposes only and may not be an all-inclusive history.

Additional Sampling*	Over the years, sampling events have taken place. Prior to any further sampling, school should review previous documentation to determine if materials have already been sampled.
Abatement Projects*	In 2007, thermal system insulation materials (TSI) were abated from the boiler room. In 2011, a flooring abatement project took place.
Floor Tile Removal Projects*	Various floor tile projects have taken place.
Major Renovation	No major renovation activities have taken place.
Building Additions	No building additions have been added.
Demolition Activities	No demolition activities have taken place.
Tunnel/Crawlspace Information	No tunnel/crawlspace system is present.
Exterior Porticos, Covered Hallways & Covered Walkways	One or more porticos, covered hallways or covered walkways are present, and no suspect asbestos containing materials were evident in those areas.
Outbuilding Comments	For any outbuildings noted on the general information page, any known or assumed asbestos containing materials have been accounted for.
Additional Notes	None

*See General Definitions page.

Inspector/Management Planner Attestment

INSPECTOR REINSPECTION ATTESTMENT

I conducted the Three Year Reinspection. I followed the reinspection requirements as noted in the Reinspection Introduction. I am an EPA/AHERA-accredited, IDPH-licensed asbestos inspector. My inspector certification is current.

During the reinspection, I visually reinspected and reassessed under AHERA Section 763.88 the condition of all accessible friable and non-friable asbestos containing materials, known or assumed, and touched the materials to determine friability. Reassessment of the areas included reviewing the following factors for each material:

- Vibration
- Deterioration
- Physical damage
- Accessibility
- Proximity of the material to areas requiring maintenance
- Barriers
- Ventilation
- Air movement
- Use of room
- Rooms used above and adjacent to the ACBM areas

☐ Not applicable, as no accessible friable or non-friable asbestos containing materials are in the building. However, it is important to note that known or assumed asbestos containing materials exist or may exist in the building in inaccessible areas such as behind walls and above ceilings.

Inspector Signature	IDPH License #	Date
	100-05617	8/6/2024

MANAGEMENT PLANNER REINSPECTION ATTESTMENT

I reviewed the results of the inspector's reassessment and determined if any response action revisions were necessary due to the reassessment. I followed the management planner review requirements as noted in the Reinspection Introduction. I am an EPA/AHERA-accredited, IDPH-licensed asbestos inspector and management planner. My inspector and management planner re-certifications are current.

Management Planner Signature	IDPH License #	Date
	100-01338	9/11/2024

IDEAL ENVIRONMENTAL ENGINEERING, INC.

Previously Known & Assumed Asbestos Containing Materials

Inventory of known and assumed asbestos containing materials as identified prior to this inspection date –

Prior to any renovation or demolition, a specific inspection for localized and/or hidden suspect asbestos containing areas needs to be completed.

Washington Elementary School
School ID#: 12-017-0020-2007
Reinspection Date: 8/6/2024

Inspector's Reinspection Findings & Reassessment											Management Planner's Comments			
					Prior Assessment			CURRENT ASSESSMENT			Prior Assessment		CURRENT ASSESSMENT	
Area ID	Area Description	Area Location	Sampled & Type of Analysis or Assumed	Material Type	Damage Condition	Friable	Change in Physical Condition, Potential for Damage Assessment, & General Comments	Damage Condition	Friable	Change in Physical Condition, Potential for Damage Assessment, & General Comments	Management Planner Recommendations	Response Action #	Management Planner Recommendations	Response Action #
1 / TJA (inaccessible)	Pipe Fitting Cover on Fiberglass Lines	1965 Orig Bldg Inaccessible Areas	Sampled PLM	T				D	Yes	Material is assumed to be present and damaged in inaccessible areas.			Ensure care is taken if accessing areas where material is likely to be found, such as above ceilings and behind walls.	4
1 / TJA	Pipe Fitting Cover on Fiberglass Lines	1965 Orig Bldg Gym & Storage by Kitchen	Sampled PLM	T	ND	Yes	No apparent changes in condition. Potential for damage.	ND	Yes	Area ID & Description clarified. Pipe cover sampled in 2006: non-ACM. Refer to inspection report. No apparent changes in condition. Potential for damage.	Monitor any damage. Take preventative measures to reduce likelihood that damage will occur. Ensure O&M is being completed.	6	Monitor any damage. Take preventative measures to reduce likelihood that damage will occur. Ensure O&M is being completed.	6
1 / TJA (above ceilings)	Pipe Fitting Cover on Fiberglass Lines	1965 Orig Bldg Throughout Above Ceilings	Sampled PLM	T	D	Yes	Material is assumed to remain damaged above ceilings.	ND	Yes	No damage observed. Area ID, Damage Condition & Response Action updated. Pipe cover sampled in 2006: non-ACM. Low potential for damage under normal conditions.	Ensure care is taken if accessing areas above ceilings. Take preventative measures to reduce potential for sig. damage. Ensure O&M is being completed.	2	Monitor any damage. Ensure O&M is being completed.	7
MFMA	9x9 Taupe w/Brown Streaks Floor Tile Mastic	1965 Orig Bldg Supply Room by Office (below shelving)	Sampled PLM	M	ND	No	Material is assumed to remain present and not damaged under shelving.	ND	No	Material is assumed to remain present and not damaged under shelving.	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A
MFTA	9x9 Taupe w/Brown Streaks Floor Tile	1965 Orig Bldg Supply Room by Office (below shelving)	Sampled PLM	M	D	No	Material is assumed to remain present and damaged under shelving.	D	No	Material is assumed to remain present and damaged under shelving.	Monitor damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A	Monitor damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A
No#	4x12 Ceramic Wall Tile Grout	1965 Orig Bldg Corridors, Multi-Purpose Room & Kitchen	Assumed	M	ND	No	No apparent changes in condition.	ND	No	No apparent changes in condition.	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A
No#	4x12 Ceramic Wall Tile Mastic	1965 Orig Bldg Corridors, Multi-Purpose Room & Kitchen	Assumed	M	ND	No	No apparent changes in condition.	ND	No	No apparent changes in condition.	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A
No#	4x4 Ceramic Wall Tile Grout	1965 Orig Bldg Staff Restrooms, Classroom Restrooms & Nurse Restroom	Assumed	M	ND	No	Area Location clarified. No apparent changes in condition.	ND	No	No apparent changes in condition.	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A
No#	4x4 Ceramic Wall Tile Mastic	1965 Orig Bldg Staff Restrooms, Classroom Restrooms & Nurse Restroom	Assumed	M	ND	No	Area Location clarified. No apparent changes in condition.	ND	No	No apparent changes in condition.	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A
No#	Blackboard Mastic	1965 Orig Bldg Classrooms	Assumed	M	ND	No	No apparent changes in condition.	ND	No	No apparent changes in condition.	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A

Known & assumed ACMs installed at the time of initial inspection and which remain in the building as of this date are noted. This report also includes any subsequently installed materials which are documented in the management plan as known or assumed ACMs. Information listed above reflects current information on file for the areas. The asbestos program is a compilation of ongoing and continually changing information. Therefore, this information may no longer coincide with original asbestos inspection and management plan report information and subsequent asbestos documentation prior to the date of this reinspection. Areas which were removed and clearly reported as such on previous reports are not listed. Changes in physical condition are observed changes since the last report. For change in physical condition, "no apparent changes" for inaccessible areas, tunnels or crawlspaces means an assumption of no changes.

ACM = Asbestos Containing Material Non-ACM = Non-Asbestos Containing Material

Material Type: Damage Condition: PLM = Polarized Light Microscopy N/A = Not Applicable O&M = operations & maintenance

M=Miscellaneous S=Surfacing T=Thermal ND=Not Damaged D=Damaged SD=Significantly Damaged TEM = Transmission Electron Microscopy

Response Actions and Priority (lower numbers indicate higher priority for remediation):

1: For thermal system insulation materials: Immediately isolate the functional space(s) which is significantly damaged, and restrict access if needed. Repair all damaged materials in the functional space(s). If it is not feasible to repair, remove the damaged materials.
For surfacing and miscellaneous materials: Immediately isolate the functional space(s) which is significantly damaged, and restrict access. Remove all damaged materials in the functional space(s), unless enclosure or encapsulation is sufficient to contain fibers.
For all ACM not removed: Maintain ACM in good condition under O&M program.
2: Take preventative measures to reduce potential for significant damage. If preventative measures cannot be effectively implemented, isolate the area until the material can be removed, enclosed, encapsulated or repaired to correct damage. Maintain ACM in good condition under O&M program.
3: Take preventative measures to reduce likelihood further damage will occur. Remove, enclose, encapsulate or repair to correct damage. Maintain ACM in good condition under O&M program.
4: Remove, enclose, encapsulate or repair to correct damage. Maintain ACM in good condition under O&M program.
5: Take preventative measures to reduce potential for significant damage. If preventative measures cannot be effectively implemented, response actions other than O&M, including area isolation, may be required. Maintain ACM in good condition under O&M program.
6: Take preventative measures to reduce likelihood that damage will occur. Maintain ACM in good condition under O&M Program.
7: Maintain ACM in good condition under O&M program.

IDEAL ENVIRONMENTAL ENGINEERING, INC.

Previously Known & Assumed Asbestos Containing Materials

Inventory of known and assumed asbestos containing materials as identified prior to this inspection date –

Prior to any renovation or demolition, a specific inspection for localized and/or hidden suspect asbestos containing areas needs to be completed.

Washington Elementary School
School ID#: 12-017-0020-2007
Reinspection Date: 8/6/2024

Inspector's Reinspection Findings & Reassessment											Management Planner's Comments			
					Prior Assessment			CURRENT ASSESSMENT			Prior Assessment		CURRENT ASSESSMENT	
Area ID	Area Description	Area Location	Sampled & Type of Analysis or Assumed	Material Type	Damage Condition	Friable	Change in Physical Condition, Potential for Damage Assessment, & General Comments	Damage Condition	Friable	Change in Physical Condition, Potential for Damage Assessment, & General Comments	Management Planner Recommendations	Response Action #	Management Planner Recommendations	Response Action #
No#	Bulletin Board Mastic	1965 Orig Bldg Classrooms & Corridors	Assumed	M	ND	No	No apparent changes in condition.	ND	No	No apparent changes in condition.	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A
No#	Fire Doors	1965 Orig Bldg Various Areas, such as, Boiler Room, Supply/Vault Room, Custodial Office & Multi-Purpose Room	Assumed	M	ND	No	No apparent changes in condition.	ND	No	No apparent changes in condition.	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A
No#	Formica Countertop Mastic	1965 Orig Bldg Classrooms	Assumed	M	ND	No	No apparent changes in condition.	ND	No	No apparent changes in condition.	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A
No#	Sink Insulation	1965 Orig Bldg Office Work Room	Assumed	M	ND	No	No apparent changes in condition.	ND	No	No apparent changes in condition.	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A
No#	Slate Window Ledges	1965 Orig Bldg Windows in Rooms	Assumed	M	ND	No	No apparent changes in condition.	ND	No	No apparent changes in condition.	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A	Monitor any damage. Ensure O&M is being completed until renovation or demolition requires removal, or until assessment factors change.	N/A

Known & assumed ACMs installed at the time of initial inspection and which remain in the building as of this date are noted. This report also includes any subsequently installed materials which are documented in the management plan as known or assumed ACMs. Information listed above reflects current information on file for the areas. The asbestos program is a compilation of ongoing and continually changing information. Therefore, this information may no longer coincide with original asbestos inspection and management plan report information and subsequent asbestos documentation prior to the date of this reinspection. Areas which were removed and clearly reported as such on previous reports are not listed. Changes in physical condition are observed changes since the last report. For change in physical condition, "no apparent changes" for inaccessible areas, tunnels or crawlspaces means an assumption of no changes.

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Material Type: M=Miscellaneous S=Surfacing T=Thermal

Damage Condition: ND=Not Damaged D=Damaged SD=Significantly Damaged

PLM = Polarized Light Microscopy TEM = Transmission Electron Microscopy N/A = Not Applicable O&M = operations & maintenance

Response Actions and Priority (lower numbers indicate higher priority for remediation):

1: For thermal system insulation materials: Immediately isolate the functional space(s) which is significantly damaged, and restrict access if needed. Repair all damaged materials in the functional space(s). If it is not feasible to repair, remove the damaged materials.
For surfacing and miscellaneous materials: Immediately isolate the functional space(s) which is significantly damaged, and restrict access. Remove all damaged materials in the functional space(s), unless enclosure or encapsulation is sufficient to contain fibers.
For all ACM not removed: Maintain ACM in good condition under O&M program.
2: Take preventative measures to reduce potential for significant damage. If preventative measures cannot be effectively implemented, isolate the area until the material can be removed, enclosed, encapsulated or repaired to correct damage. Maintain ACM in good condition under O&M program.
3: Take preventative measures to reduce likelihood further damage will occur. Remove, enclose, encapsulate or repair to correct damage. Maintain ACM in good condition under O&M program.
4: Remove, enclose, encapsulate or repair to correct damage. Maintain ACM in good condition under O&M program.
5: Take preventative measures to reduce potential for significant damage. If preventative measures cannot be effectively implemented, response actions other than O&M, including area isolation, may be required. Maintain ACM in good condition under O&M program.
6: Take preventative measures to reduce likelihood that damage will occur. Maintain ACM in good condition under O&M Program.
7: Maintain ACM in good condition under O&M program.

IDEAL ENVIRONMENTAL ENGINEERING, INC.

Washington Elementary School
School ID#: 12-017-0020-2007
Reinspection Date: 8/6/2024

List of Assumed Suspect Asbestos Containing Materials

List of materials assumed to contain asbestos during this reinspection — Page 1 of 1

Area ID	Area Description	Area Location	Asbestos Containing	Sampled & Type of Analysis or Assumed	Material Type	Damage Condition	Friable	Response Action #	Comments
No#	Light Fixture Paper	1965 Orig Bldg Gym Storage Room	Yes	Assumed	M	ND	No	N/A	Assumed to contain asbestos 8/6/2024. Material must be sampled prior to disturbance.

Material Type: M=Miscellaneous; S=Surfacing; T=Thermal Damage Condition: ND=Not Damaged; D=Damaged; SD=Significantly Damaged N/A = Not Applicable
ACM = Asbestos Containing Material Non-ACM = Non-Asbestos Containing Material PLM = Polarized Light Microscopy TEM = Transmission Electron Microscopy

Response Actions and Priority (lower numbers indicate higher priority for remediation):

1: For thermal system insulation materials: Immediately isolate the functional space(s) which is significantly damaged, and restrict access if needed. Repair all damaged materials in the functional space(s). If it is not feasible to repair, remove the damaged materials. For surfacing and miscellaneous materials: Immediately isolate the functional space(s) which is significantly damaged, and restrict access. Remove all damaged materials in the functional space(s), unless enclosure or encapsulation is sufficient to contain fibers. For all ACM not removed: Maintain ACM in good condition under O&M program.
2: Take preventative measures to reduce potential for significant damage. If preventative measures cannot be effectively implemented, isolate the area until the material can be removed, enclosed, encapsulated or repaired to correct damage. Maintain ACM in good condition under O&M program.
3: Take preventative measures to reduce likelihood further damage will occur. Remove, enclose, encapsulate or repair to correct damage. Maintain ACM in good condition under O&M program.
4: Remove, enclose, encapsulate or repair to correct damage. Maintain ACM in good condition under O&M program.
5: Take preventative measures to reduce potential for significant damage. If preventative measures cannot be effectively implemented, response actions other than O&M, including area isolation, may be required. Maintain ACM in good condition under O&M program.
6: Take preventative measures to reduce likelihood that damage will occur. Maintain ACM in good condition under O&M Program.
7: Maintain ACM in good condition under O&M program.

Reinspection General Overview

A general overview of the asbestos management plan, comments and recommendations for this building — Page 1 of 6

REQUIRED ELEMENTS OF THE MANAGEMENT PLAN
Routine Documentation:
-Ensure a designated person is assigned, trained, and documented in the asbestos management plan.
-Ensure asbestos awareness training is provided to custodial/maintenance staff annually and documented in the management plan.
-Ensure notifications to parents, teachers and employee organizations are issued annually, dated, and filed in the management plan.
-Ensure work permits are issued to all outside vendors and that copies of the permits are filed in the management plan.
-Ensure six-month surveillances are completed, reviewed, and filed in the management plan.
-Ensure three-year reinspections are completed, reviewed, and filed in the management plan.
Other Documentation:
-Ensure reports for all sampling, abatement and operations and maintenance work are received and filed in the management plan.

MANAGEMENT PLAN POLICY RE-STATEMENT ADVISORY
Every three years, the AHERA law requires LEA's to re-state the policy for the management of asbestos in the LEA's building(s). The policy statement is then to be adopted by the LEA. To re-state the LEA's policy regarding the management of asbestos in this building, review the policy statement found in this three-year reinspection, adopt it by signing it and ensure it is followed.

ACTION NEEDED ADVISORY - ROUTINE DOCUMENTATION
Some required elements of the management plan appear incomplete/missing. It is strongly recommended that steps are taken to manage the asbestos program in accord with the policy statement. Incomplete/missing documentation should be located and properly filed.

The following is a list of incomplete/missing elements of the management plan which were observed since the last three-year reinspection.
-Name of current designated person along with current training is missing.
-A work permit system is missing.
This list may not be inclusive of all incomplete/missing elements.

DESIGNATED PERSON ADVISORY
The designated person is responsible for compliance with all elements of the LEA's asbestos management plan. The designated person must be adequately trained for the position, and the training is to be documented in the management plan. At minimum, a designated person should receive eight hours of training on the asbestos program. For larger LEA's, additional training may be necessary to ensure adequate training is achieved. The designated person is to accept the position by signing the designated person assurance page which must be filed into the management plan.

The designated person is responsible to keep the management plan up to date to help comply with the AHERA law and IDPH regulations. The laws require that all asbestos documentation for the management plan be available in the LEA's administration office, and in the administrative office of each school building. The task of keeping identical plans at each location can be overwhelming. However, the task is critical and is often overlooked, or its importance is understated. Ensure the management plan is current and available for review in the necessary offices as required.

IDPH COMPLIANCE VISITS & FINES/PENALTIES ADVISORY
Compliance visits by IDPH are being conducted. Failure to comply with the required elements of the asbestos management plan have cost Illinois schools substantial fines/penalties. $18,000 to $20,000 fines have been recently assessed. Some of the alleged violations included: failure to maintain asbestos records, failure to ensure a new

building was inspected for asbestos or to have the required architect/engineer exclusionary statement for the building, failure to have the management plan available in the office, failure to update the management plan, failure to provide notifications regarding the presence of the management plan, failure to record six-month surveillances in the management plan, failure to properly document asbestos removal projects, failure to sample or assume suspect asbestos containing materials in their buildings, and failure to notify IDPH of floor tile removal projects.

The above advisories are provided to help the designated person and the LEA understand the importance of the paperwork that goes along with the management of the asbestos in the building. It is our sincere hope that, when acted upon, the information provided will help your LEA achieve the necessary compliance with the AHERA law and IDPH regulations.

HEALTH AND SAFETY OF BUILDING OCCUPANTS
The following information and advisories are provided to help the designated person and the LEA understand and know the aspects of the asbestos program that are important for the health and safety of the building occupants and the overall management of the asbestos program.

ASBESTOS MAJOR FIBER RELEASE ADVISORY
An asbestos major fiber release is the disturbance of any asbestos containing material greater than 3 square feet or 3 lineal feet. Due to the release of asbestos fibers into the air, major fiber releases pose a significant health and safety concern for building occupants and are very disruptive to school operations. The required response action for a major fiber release as indicated in a school's asbestos management plan is an immediate cleanup under an emergency asbestos design plan. A major fiber release can immediately shut down a school until it is cleaned up. They are also costly to clean up and can be a public relations nightmare. Most importantly they pose a health and safety concern. The asbestos program is in effect to help prevent major fiber releases in school buildings to help ensure the safety of the children and all other occupants.

Within the management of the asbestos program, the designated person must ensure building materials are not disturbed without first determining the asbestos content. If the materials contain asbestos, the designated person must ensure all asbestos rules are followed to help ensure the safe disturbance of the materials.

SAMPLING ADVISORY
Forgotten with time is the fact IDPH requires all ceiling tiles and panels be sampled to determine asbestos content. While the AHERA law allows for the assumption of these materials to contain asbestos, IDPH does not. The stricter rule is applicable. If your management plan identifies ceiling tiles and panels as assumed to contain asbestos, they need to be sampled. The designated person is responsible for compliance with the asbestos program.

Ceiling tiles and panels are friable materials. Friable materials readily release asbestos fibers into the air when disturbed. Some other friable materials or materials which easily become friable when disturbed are spray-on ceiling materials and plasters. It does not take much disturbance to any of these materials to create an asbestos major fiber release. If spray-on ceiling materials and plasters are assumed to contain asbestos in your management plan, they should be sampled to know how to properly manage them.

Non-friable non-organically bound (NOB) materials, such as floor tile, base cove, sheet flooring, mastics, and caulks should be analyzed by Transmission Electron Microscopy (TEM). The standard method of analysis is Polarized Light Microscopy (PLM). If this method is done first (which is often the case), it should be followed by TEM to confirm the PLM results when no asbestos is detected. Laboratories recommend this on their analysis reports, as the asbestos fibers in NOB materials are tiny and difficult to see and quantify under PLM. Regulatory agencies also recommend TEM analysis.

Other materials such as terrazzo and magnesite flooring found to be non-asbestos containing or to contain trace amounts (less than or equal to 1%) of asbestos by PLM analysis are recommended to have additional analysis by TEM to verify asbestos content.

Reinspection General Overview

Numerous drywall installation dates are possible within a school building. It is our recommendation that drywall and drywall joint compound are sampled on a per renovation basis.

INSPECTION PRIOR TO RENOVATION/DEMOLITION ADVISORY
Prior to disturbing any building materials in the school, whether for renovation or demolition purposes, the building must be inspected by an IDPH-licensed inspector, and all suspect asbestos containing materials affected by the work must be sampled, regardless of building construction year. This is required by the EPA's federal NESHAP regulation. Review of a school's AHERA-required asbestos management plan may be a helpful resource for reference purposes, but it does not meet NESHAP inspection requirements. Ensure all suspect asbestos containing materials are sampled to determine asbestos content prior to any disturbance, including removal, renovation or demolition, regardless of installation date, to comply with all applicable regulations. Ensure sampling documentation is filed in the asbestos management plan.

SPRAY-ON CEILING AND CEILING PANELS ADVISORY
Asbestos management plans are to indicate the preventative measures which must be taken to reduce potential for disturbance to these materials. They are very friable, and everyday maintenance activities, such as replacing light bulbs and using ladders, etc., can disturb them. Roof and pipe leaks can cause them to fall, creating asbestos fiber releases. When present, they must not be disturbed. If disturbance is not preventable, they must be isolated, removed, enclosed or encapsulated. It is very important to:

-- prevent kids from poking at the material(s), jumping to try to touch them or bouncing balls up to them.
-- prevent teachers from hanging items from the material(s).
-- prevent roof leaks and pipe leaks. Water damage will disturb the binding matrix of the material(s).
-- prevent sports activities from disturbing them. For instance, a volleyball hit high to the ceiling will cause disturbance.
-- prevent the carrying of or use of ladders or other equipment around the materials without using care.
-- prevent changing lightbulbs and doing other routine maintenance without using care.

Do not use ceiling fans in rooms/areas with these materials present. The continual air movement and vibration caused by the fans create an asbestos fiber release potential, especially as ceilings age. Do not allow band practice/performances in and above rooms/areas with these materials as the vibration from the band instruments creates a potential for fiber release. These materials should not be present in weight/workout rooms either, due to vibration factors. Asbestos fiber release is a concern when these materials fall and where they exist in high air erosion and vibration spaces. Strong evidence of past disturbance would be replacement or damaged tile/panels, patches of repaired spray-on ceiling and water stains.

Without effective measures in place to prevent disturbance to the materials, the response actions need to be completed. High priority for removal is warranted because of their friability factor. The presence of asbestos containing spray-on ceiling materials and ceiling tile/panels in a school should be considered a potential life/safety hazard even if the materials are reported as not damaged or in good condition. Evidence over time supports that it is very difficult to prevent disturbances to these materials.

IDEAL recommends asbestos containing spray-on ceiling materials and ceiling tiles/panels not be present in schools, and most importantly, not in hallways and gyms where student behavior is difficult to control. When these materials are prevalent in a school, the LEA should budget for removing them over time, with priority on high potential disturbance areas. It is also recommended that the LEA budget for removal as part of its life/safety program.

SPACE ABOVE SUSPENDED CEILINGS ADVISORY:
In any building, the potential exists for asbestos containing thermal system insulation (TSI) or other asbestos containing materials to be present above a suspended ceiling and to not be documented in the asbestos management plan. Care should always be taken when accessing the space above suspended ceilings. Anyone accessing it should have two-hour asbestos awareness training and must use extreme caution. If the area above the suspended ceiling is accessed, and suspect asbestos containing material is

Reinspection General Overview

observed, the person should immediately restore the ceiling panel to its position and cease planned operations. Report the observation to the LEA's asbestos designated person for appropriate action.

Remember - never move or otherwise disturb a ceiling tile/panel without first knowing its asbestos content and without following all applicable asbestos rules if it is asbestos containing.

No asbestos containing materials should ever be present in any space used as an air plenum.

PLASTER ADVISORY
Anytime asbestos containing plaster is present, measures must be in place to prevent damage to it. Do not allow it to be disturbed. Monitor it for any signs of water damage or delamination. Maintain it in a not damaged condition. In the absence of measures to prevent disturbance to it, complete the response action. If plaster falls, an asbestos major fiber release may occur. Damaged areas of plaster are always a concern and should be remediated. Damaged asbestos containing plaster should be considered a Life/Safety hazard.

TSI ADVISORY
When TSI is present, it is to be kept intact and in good condition (not damaged). Repair any damage to it on an annual basis under the asbestos management plan's operations and maintenance program. When discovered, damage needs to be repaired in a timely manner within the timelines established in your asbestos management plan. Minor damage should typically be repaired within six months. Significant damage and fiber releases must be remediated promptly.

TSI is often documented in three-year reinspection reports as assumed to be present in inaccessible areas. Regardless of whether the pipe insulation is documented as possibly existing in inaccessible areas, always use care when accessing spaces where piping may be present, such as above ceilings and behind walls and in pipe chases.

FIRE BRICK ADVISORY
Fire bricks should never be used for welding purposes. They may contain asbestos.

TERRAZZO FLOORING ADVISORY
Do not sand, grind or remove terrazzo flooring unless it is found to be non-asbestos containing by TEM.

DRYWALL AND DRYWALL JOINT COMPOUND
Do not allow drywall and drywall joint compound to be nailed or screwed into to hang items without first knowing the asbestos content. Never nail or screw into a material if it is asbestos containing.

FOOD PREPARATION AREA ADVISORY
IDPH Food Sanitation Code requires food preparation areas to have smooth, non-absorbent, cleanable surfaces in good repair. Damaged known or assumed asbestos containing materials should not be present in a food preparation area for food safety reasons. When present, any damage should be remediated.

FLOORING REMOVAL ADVISORY
Care must be taken when removing any replacement flooring materials. Old ACM flooring may exist underneath the replacement flooring, even if such existence is not documented in this report. It is beyond the scope of this reinspection to determine if and where ACM flooring does or may exist under replacement flooring.

Reinspection General Overview

A general overview of the asbestos management plan, comments and recommendations for this building — Page 5 of 6

During the early years of the AHERA law, schools were not allowed to remove asbestos containing floor tile mastic unless it was removed under an abatement design plan. Also, floor tile could only be removed under an approved variance. Because of this, many schools removed the floor tile and covered over the mastic. This era was from 1988 to 1999. If you remove replacement flooring that was installed during this era, the old asbestos containing black mastic probably remains underneath it.

When the mastic was removed, it may not have been completely removed. Therefore, if old mastic is found in isolated areas or throughout under replacement flooring, even if not identified during an inspection, it should be treated as asbestos containing. Use caution, even if sample results say the underlying mastic is non-asbestos containing. If black mastic is discovered, it needs to be treated as asbestos containing.

CARPET ADVISORY
If carpet is present and planned to be disturbed, check the asbestos management plan to see if it can be determined if asbestos containing flooring is below it. If it does exist, proceed with caution when disturbing the carpet, because the asbestos containing floor tile, etc., may be loose and/or damaged. Stop the project if the floor tile becomes dislodged, and contact asbestos professionals for guidance. If carpet mastic exists, ensure it is sampled prior to disturbance.

STAGE CURTAIN ADVISORY
Stage curtains should not be cleaned or otherwise disturbed without first being inspected to determine if they contain asbestos.

NEWLY INSTALLED BUILDING MATERIAL ADVISORY
For most buildings, the initial AHERA inspection date is around 1988/89. As defined in this report, a newly installed building material is a material installed in a building after the date of the building's initial AHERA inspection. For example, if purple floor tile was in a cafeteria at the time of the initial AHERA inspection and then subsequently removed and replaced with pink floor tile, the pink floor tile is a newly installed building material. Newly installed building materials are typically not inventoried in the reinspection report. All newly installed building materials are assumed to contain asbestos, whether inventoried or not. The materials must be sampled prior to any disturbance to determine their asbestos content.

Outbuildings constructed after the onset of the AHERA law (1988/89): Many smaller outbuildings are constructed without using architects, making exclusionary-type statements unavailable. As a courtesy to the LEA, our reinspection service includes entering these buildings and assessing the condition of the suspect asbestos containing materials in them (even if not inventoried in the report). In a broad sense, these would be termed newly installed building materials since they were installed after 1988/89.

NEW CONSTRUCTION ADVISORY
Any building or addition constructed since the onset of the AHERA law (1988/89) must have an architect exclusionary statement for it or the building must be inspected. The architect statement must be filed in the building's asbestos management plan. Regardless of construction year, all schools are required to have an asbestos management plan. To exclude the new construction from an original inspection, periodic surveillances and re-inspections, the letter must be written by the architect of record. We recommend looking at any letters you may have on file to ensure they are written by the architect(s) of record, as we have seen many letters written by construction companies and other trades. If a letter is written by anyone other than the architect of record, it may not be accepted by regulatory agencies. If your letter is not provided by the architect of record, we recommend obtaining the letter from the architect. The designated person should contact the LEA's asbestos consultant and work with the consultant to help ensure the required asbestos management plan for each new construction is in order. If the letter is not present in the management plan, the building must be inspected. For smaller-type outbuildings constructed without using an architect, refer to the Newly Installed Building Material Advisory.

NON-AHERA SUSPECT ASBESTOS CONTAINING MATERIALS ADVISORY
Some suspect asbestos containing materials may be present which are not covered under the AHERA law. For instance, chalkboards, room dividers, lab tabletops (without utilities installed), linoleum countertop/mastic, stage curtains, stage light wire insulation (for non-hard-wired lights), kilns and fire bricks (used in applications other than the

Reinspection General Overview

building heating system). Ensure applicable asbestos regulations are followed prior to any disturbance of these materials.

OTHER ADVISORIES
Most schools have some type of non-friable known or assumed asbestos containing materials. These materials can become friable due to unintentional damage and disturbances. When non-friable materials are present, it is important to prevent damage to them, so they remain intact and do not release asbestos fibers into the air.

ASBESTOS PROGRAM POLICY STATEMENT

[This policy statement supersedes any previously adopted policy statements.]

The asbestos policy of the school [Local Education Agency (LEA)] is as follows:

We will comply with the AHERA rules and regulations as set forth in 40 CFR part 763 of Federal Register on October 30, 1987, and in IDPH Section 855. The Asbestos Management Plan was put into effect approximately June 9, 1989 or within one year of the date of the initial inspection. A complete set of the Asbestos Management Plan for each building will be available in the main administration office and each school office. We understand the Asbestos Management Plan is followed to help preserve the health and safety of building occupants.

Any asbestos containing material that is damaged or may become damaged will be repaired by an EPA/AHERA-accredited, IDPH-licensed asbestos worker.

All accessible asbestos containing areas and repaired materials will be maintained in good condition.

Any tunnel/crawlspace areas with damaged asbestos containing materials will be repaired within one year and maintained, or the spaces will be locked and/or restricted, with entry permitted only by EPA/AHERA-accredited, IDPH-licensed asbestos workers wearing respirators and disposable suits. Tunnels requiring abatement will be sealed with access remaining restricted until material is abated.

Warning labels will be posted on all known or assumed asbestos containing building materials (ACBM) in all maintenance areas to indicate the presence of asbestos.

Prior to any remodeling or renovation projects, an inspection will be completed to determine what asbestos containing materials might be affected, and proper procedures will be carried out to ensure AHERA compliance. Any suspect ACBM not previously addressed will be assumed to contain asbestos until inspected, sampled and analyzed to determine asbestos content.

Building occupants will be notified annually about the availability of the Asbestos Management Plan and about asbestos-related activities. The dated notification will be filed in the Asbestos Management Plan. Even if all asbestos containing materials are removed or if all building materials are determined to be non-asbestos containing, the building occupants will be notified each year of the availability of the Asbestos Management Plan.

Any buildings leased, acquired, or put into use on or after October 12, 1988 as a school building (as defined by AHERA) will be inspected for asbestos and have an Asbestos Management Plan developed prior to school use.

Outside contractors will be required to obtain a work permit before undertaking maintenance or remodeling work. The contractor will be notified of the Asbestos Management Plan and the location of any asbestos containing materials that must not be disturbed. The signed work permits will be filed in the Asbestos Management Plan.

Custodial/maintenance personnel, including summer employees, will receive the required two (2) hours of asbestos awareness training, and any newly hired custodial/maintenance personnel will receive this required training within 60 days of employment. The training documentation will be filed in the Asbestos Management Plan. The training will be renewed on an annual basis to meet OSHA requirements.

We will provide an asbestos designated person for our school's asbestos program:

Designated Person Name: _____

The Asbestos Designated Person will oversee the asbestos program in accordance with the general responsibilities and assurance statements under AHERA.

If we need to remove any asbestos containing building materials, such as prior to any repair, remodeling, renovation or demolition work, we will follow applicable asbestos rules, such as the use of an EPA/AHERA-accredited IDPH-licensed designer to design the project and project managers/air sampling professionals during the removal process.

If we have a new building or addition lacking an architect statement (stating that no asbestos containing materials were specified for use in the project), an original asbestos inspection of that building or addition will be completed, and subsequent six-month surveillances and three-year reinspections will be completed as applicable.

We will only employ an IDPH-licensed asbestos abatement contractor to complete response actions. We will complete the response actions in accordance with the asbestos rules and response action timelines provided in the management plan documentation. If we disagree with a response action or its timelines, we will consult with a licensed asbestos management planner to discuss the situation and amend the plan accordingly.

This policy statement may be revised at any time, and the Asbestos Management Plan may be updated as needed.

LEA ADMINISTRATOR	LEA	Date

[If you have questions about or need assistance with any of the above statements, please do not hesitate to call IDEAL at (309)828-4259.

HAZARD ASSESSMENT & RESPONSE ACTION DETERMINATION
Thermal System Insulation & Friable Surfacing & Miscellaneous Materials

SAMPLE AREA ID: **1 / TJA (inaccessible)**
BUILDING: **1965 Original Building** SAMPLE AREA DESCRIPTION: **Pipe Fitting Cover on Fiberglass Lines**

HAZARD ASSESSMENT:
This area **contains** asbestos. This material is assumed to be **present and damaged** in inaccessible areas.

Per typical building layouts and previous experience, I, the management planner, have deemed the disturbance factor to be **low**. A disturbance factor is based on the accessibility of the material, activity levels, vibration, and air erosion in the area where the material is located.

It is anticipated that there is no air flow in the inaccessible areas of the building.

POTENTIAL DAMAGE CLASS:

X -Not Applicable
[Material is already damaged or significantly damaged.]

-Potential Significant Damage
[Material is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities. There are indications that there is a reasonable likelihood that the material or its covering will become *significantly damaged*, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage. The material is subject to major or continuing disturbance, due to factors including but not limited to accessibility or, under certain circumstances, vibration or air erosion.]

-Potential Damage
[Material is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities. There are indications that there is a reasonable likelihood that the material or its covering will become damaged, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage.]

-Low Potential Damage
[Material has a reduced likelihood for damage based on the current condition of the material and the school's O&M practices and preventative measures that have been taken to reduce the potential for damage or the material is in an area not readily accessible by building occupants such as behind walls and above ceilings.]

RESPONSE ACTION NUMBER: **4**

1. FOR THERMAL SYSTEM INSULATION MATERIALS: Immediately isolate the functional space(s) which is significantly damaged and restrict access if needed. Repair all damaged materials in the functional space(s). If it is not feasible to repair, remove the damaged materials.
   FOR SURFACING AND MISCELLANEOUS MATERIALS: Immediately isolate the functional space(s) which is significantly damaged and restrict access. Remove all damaged materials in the functional space, unless enclosure or encapsulation is sufficient to contain fibers.
   FOR ALL ACM NOT REMOVED: Maintain ACM in good condition under O&M program.
2. Take preventative measures to reduce potential for significant damage. If preventative measures cannot be effectively implemented, isolate the area until the material can be removed, enclosed, encapsulated or repaired to correct damage. Maintain ACM in good condition under O&M program.
3. Take preventative measures to reduce likelihood further damage will occur. Remove, enclose, encapsulate or repair to correct damage. Maintain ACM in good condition under O&M program.
4. Remove, enclose, encapsulate or repair to correct damage. Maintain ACM in good condition under O&M program.
5. Take preventative measures to reduce potential for significant damage. If preventative measures cannot be effectively implemented, response actions other than O&M, including area isolation, may be required. Maintain ACM in good condition under O&M program.
6. Take preventative measures to reduce likelihood that damage will occur. Maintain ACM in good condition under O&M program.

HAZARD ASSESSMENT & RESPONSE ACTION DETERMINATION
Thermal System Insulation & Friable Surfacing & Miscellaneous Materials

7. Maintain ACM in good condition under O&M program.

Note: An O&M program may include enclosure and encapsulation where appropriate to increase the effectiveness of O&M.

Response actions (1-7) above indicates priority for removal.

The Management Planner inference for damage (or potential damage) may be different from Inspector's responses.

HEALTH AND SAFETY MEASURES:
Any thermal system insulation (TSI) which is present in inaccessible spaces is likely to be damaged due to age and general deterioration. Inaccessible spaces may need to be accessed for maintenance and/or renovation reasons. If such spaces are accessed, care must be taken where TSI is likely to be found, such as above ceilings and behind walls. If TSI is found in these spaces, its condition needs to be assessed, and any damage needs to be remediated in a timely manner to help facilitate the completion of the maintenance or renovation work.

RECOMMENDATIONS & COST ESTIMATES FOR AREA:
The remediation and cost for remediation of damaged TSI when discovered in inaccessible spaces is best determined at the time of discovery.

Operations & Maintenance program per year: $ Not applicable (material is not accessible)

Note: The estimate does not include replacement of materials in affected areas. Also, price is based on local contractor's prices and does not reflect actual price. Actual price is determined after bidding process is complete.

Removal is always an option under AHERA regulations.

Enclosure and Encapsulation are initially less costly, but **total removal** is most cost effective over time.

INSPECTOR:	**Steve Rock**
IDPH LICENSE #:	**100-05617**
INSPECTION DATE:	**8/6/2024**
MANAGEMENT PLANNER:	**Jerry L. Wilson**
IDPH LICENSE #:	**100-01338**
REVIEW DATE:	9/11/2024

INSPECTOR'S ASSESMENT REPORT

SAMPLE AREA ID: **1 / TJA (above ceilings)**

SAMPLE AREA DESCRIPTION: **Pipe Fitting Cover on Fiberglass Lines** REINSPECTION DATE: **8/6/2024**

BUILDING: **1965 Original Building**

AREA LOCATION: **Throughout Above Ceilings**

AREA ESTIMATE (if significantly damaged): **Not Applicable**

ESTIMATE OF DAMAGED AREA (if applicable): **Not Applicable**

PHYSICAL STATE

FRIABILITY:	-High		-Moderate	X	-Low		-None		
DAMAGE FACTOR:	-Significant Damage		-Damage	X	-No Damage				
PHYSICAL DAMAGE:	-High		-Moderate		-Low	X	-None		-%
	-Localized		-Distributed						
DETERIORATION:	-High		-Moderate		-Low	X	-None		
WATER DAMAGE:	-Yes	X	-No						
EXISTANCE OF BARRIERS:	X -Suspended Ceiling		-Encapsulated		-None				
	-Other:								
PROXIMITY TO ITEMS REQUIRING MAINTENANCE:	X -Vent	X	-Plumbing	X	-Electrical		-None		
	-Other:								
DISTANCE:	X -0'-5'		-0'-10'		-5'-10'		-Over 10'		

ACTIVITY AND MOVEMENT

USE OF ROOM:	**Various**								
ACTIVITY:	X -High		-Moderate		-Low		-None		
WHAT IS ABOVE ROOM:	**Roof**								
WHAT IS NEXT TO ROOM:	**Various**								
ACCESSIBILITY:	Height of Material from Floor:		**8 1/2' – 9 ½'**						
VIBRATION:	-High		-Moderate		-Low	X	-None		

VENTILATION SYSTEM

VENTS NEAR MATERIAL:	X -Yes	-No		Distance:	**<1'**					
RETURN AIR DUCTS PRESENT:	X -Yes	-No		INSULATED:		-Inside		-Outside	X	-N/A
SUPPLY AIR DUCTS PRESENT:	X -Yes	-No		INSULATED:		-Inside		-Outside	X	-N/A
AIR MOVEMENT:	-High	-Moderate	X	-Low		-None				
AIR EROSION:	-High	-Moderate		-Low	X	-None				
Is space above ceiling used as a Plenum?		-Yes	X	-No						

COMMENTS:

INSPECTOR / IDPH LICENSE #: **Steve Rock / 100-05617**

HAZARD ASSESSMENT & RESPONSE ACTION DETERMINATION
Thermal System Insulation & Friable Surfacing & Miscellaneous Materials

SAMPLE AREA ID: **1 / TJA (above ceilings)**
BUILDING: **1965 Original Building** SAMPLE AREA DESCRIPTION: **Pipe Fitting Cover on Fiberglass Lines**

HAZARD ASSESSMENT:
This area **contains** asbestos. Per the inspector's assessment, this material is **not damaged**.

Per typical building layouts and previous experience, I, the management planner, have deemed the disturbance factor to be **low**. A disturbance factor is based on the accessibility of the material, activity levels, vibration, and air erosion in the area where the material is located.

It is anticipated that there is air flow in the building.

POTENTIAL DAMAGE CLASS:

-Not Applicable
[Material is already damaged or significantly damaged.]

-Potential Significant Damage
[Material is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities. There are indications that there is a reasonable likelihood that the material or its covering will become *significantly damaged*, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage. The material is subject to major or continuing disturbance, due to factors including but not limited to accessibility or, under certain circumstances, vibration or air erosion.]

-Potential Damage
[Material is in an area regularly used by building occupants, including maintenance personnel, in the course of their normal activities. There are indications that there is a reasonable likelihood that the material or its covering will become *damaged*, deteriorated, or delaminated due to factors such as changes in building use, changes in operations and maintenance practices, changes in occupancy, or recurrent damage.]

X -Low Potential Damage
[Material has a reduced likelihood for damage based on the current condition of the material and the school's O&M practices and preventative measures that have been taken to reduce the potential for damage or the material is in an area not readily accessible by building occupants such as behind walls and above ceilings.]

RESPONSE ACTION NUMBER: **7**

1. FOR THERMAL SYSTEM INSULATION MATERIALS: Immediately isolate the functional space(s) which is significantly damaged and restrict access if needed. Repair all damaged materials in the functional space(s). If it is not feasible to repair, remove the damaged materials.
   FOR SURFACING AND MISCELLANEOUS MATERIALS: Immediately isolate the functional space(s) which is significantly damaged and restrict access. Remove all damaged materials in the functional space, unless enclosure or encapsulation is sufficient to contain fibers.
   FOR ALL ACM NOT REMOVED: Maintain ACM in good condition under O&M program.
2. Take preventative measures to reduce potential for significant damage. If preventative measures cannot be effectively implemented, isolate the area until the material can be removed, enclosed, encapsulated or repaired to correct damage. Maintain ACM in good condition under O&M program.
3. Take preventative measures to reduce likelihood further damage will occur. Remove, enclose, encapsulate or repair to correct damage. Maintain ACM in good condition under O&M program.
4. Remove, enclose, encapsulate or repair to correct damage. Maintain ACM in good condition under O&M program.
5. Take preventative measures to reduce potential for significant damage. If preventative measures cannot be effectively implemented, response actions other than O&M, including area isolation, may be required. Maintain ACM in good condition under O&M program.
6. Take preventative measures to reduce likelihood that damage will occur. Maintain ACM in good condition under O&M program.
7. Maintain ACM in good condition under O&M program.

HAZARD ASSESSMENT & RESPONSE ACTION DETERMINATION
Thermal System Insulation & Friable Surfacing & Miscellaneous Materials

SAMPLE AREA ID: **1 / TJA (above ceilings)**
BUILDING: **1965 Original Building** SAMPLE AREA DESCRIPTION: **Pipe Fitting Cover on Fiberglass Lines**

Note: An O&M program may include enclosure and encapsulation where appropriate to increase the effectiveness of O&M. Response actions (1-7) above indicates priority for removal.
The Management Planner inference for damage (or potential damage) may be different from Inspector's responses.

HEALTH AND SAFETY MEASURES:
Damaged pipe covering material needs to be repaired as soon as possible in areas of direct contact with building occupants. Damaged pipe coverings become friable with potential for fiber release. If damaged material is exposed to continued disturbance, removal or permanent enclosure are the only options. Special precautions, such as not leaning items against the material, should be taken. Any damage should be repaired within six months.

RECOMMENDATIONS & COST ESTIMATES FOR AREA:
Cost for abatement is best determined at the time the LEA decides to abate the material.

Operations & Maintenance program per year: $ <5,000.00

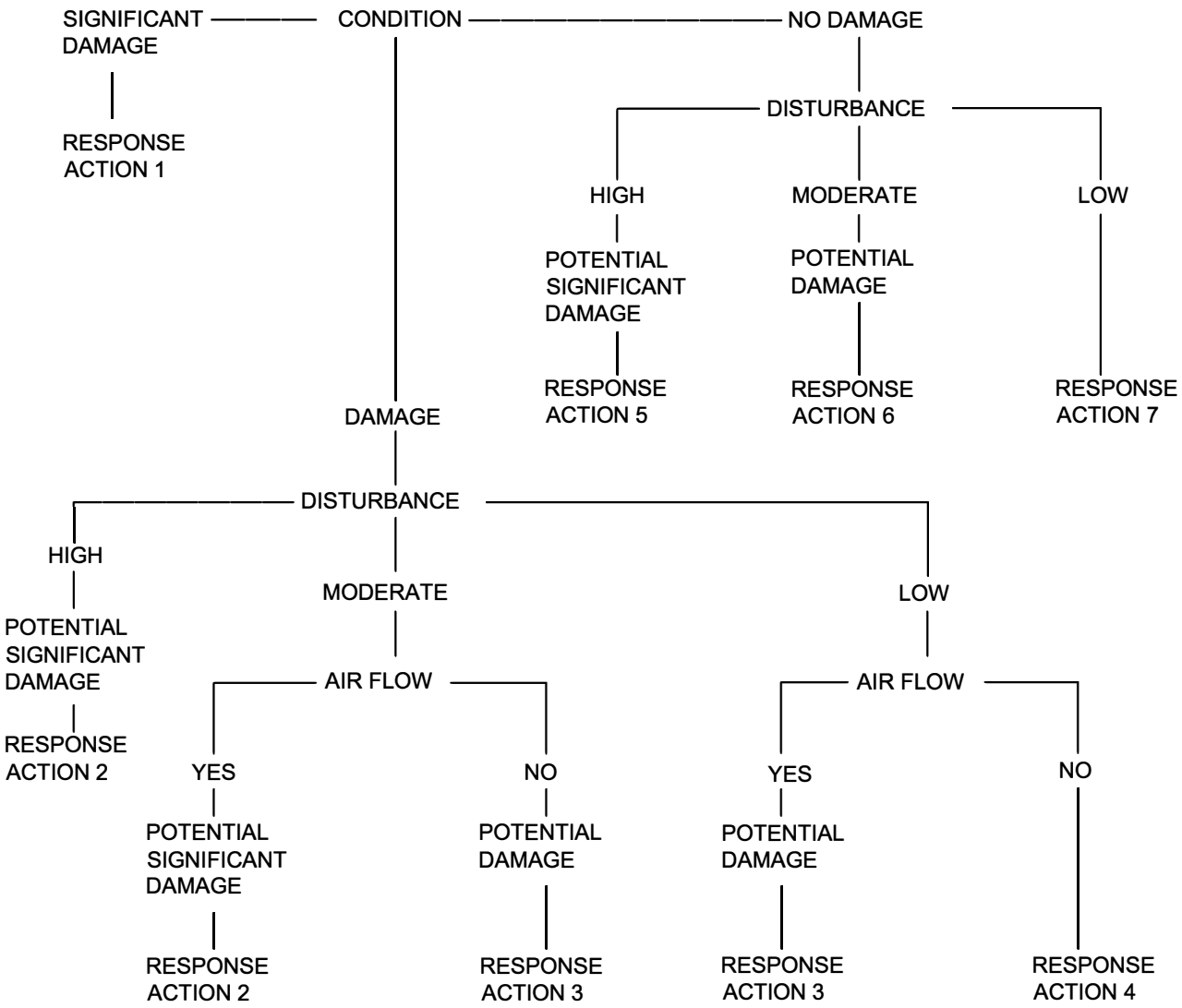
Note: The estimate does not include replacement of materials in affected areas. Also, price is based on local contractor's prices and does not reflect actual price. Actual price is determined after bidding process is complete.

Removal is always an option under AHERA regulations.

Enclosure and Encapsulation are initially less costly, but **total removal** is most cost effective over time.

INSPECTOR:	**Steve Rock**
IDPH LICENSE #:	**100-05617**
INSPECTION DATE:	**8/6/2024**
MANAGEMENT PLANNER:	**Jerry L. Wilson**
IDPH LICENSE #:	**100-01338**
REVIEW DATE:	9/11/2024

DECISION TREE - Thermal System Insulation & Friable Surfacing and Miscellaneous Materials



Response Actions and Priority (lower numbers indicate higher priority for remediation):

1. FOR THERMAL SYSTEM INSULATION MATERIALS: Immediately isolate the functional space(s) which is significantly damaged and restrict access if needed. Repair all damaged materials in the functional space(s). If it is not feasible to repair, remove the damaged materials.
   FOR SURFACING AND MISCELLANEOUS MATERIALS: Immediately isolate the functional space(s) which is significantly damaged and restrict access. Remove all damaged materials in the functional space, unless enclosure or encapsulation is sufficient to contain fibers.
   FOR ALL ACM NOT REMOVED: Maintain ACM in good condition under O&M program.
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6. Take preventative measures to reduce likelihood that damage will occur. Maintain ACM in good condition under O&M program.
7. Maintain ACM in good condition under O&M program.

LISTED ASSUMED AREAS

SCHOOL NAME: **Washington Elementary School**

ID NUMBER: **12-017-0020-2007**

DATE OF REINSPECTION: 8/6/2024

According to the March 1999 Illinois Department of Public Health (IDPH) regulations [(Section 855.310(m)(2)]:

> "Any additional suspect ACBM found during the reinspection, that was not included in the original management plan or previous reinspection report, shall be sampled according to procedures in Section 855.310(d) or listed as assumed ACBM and added to the management plan."

The following suspect asbestos containing materials were found in the building and were not sampled as part of the reinspection. Therefore, they are listed as assumed to contain asbestos.

Material Description	**Location**
Light Fixture Paper	1965 Orig Bldg Gym Storage Room

For additional documentation on each listed assumed area, we recommend having a licensed inspector complete an Inspection Report form for each material, along with diagrams showing the location of each material and photos. This additional service is not part of the scope of service for a reinspection.

INSPECTOR: **Steve Rock**

IDPH LICENSE#: **100-05617**

From: Paul Weber
To: DPH.Asbestos
Subject: School Info Form Submission: Robinson SD
Date: Wednesday, August 7, 2024 10:29:00 AM
Attachments: Robinson SD School Inf Forms.pdf

Please find attached the completed school information forms for the following building(s):

Maintenance & Transportation
206 S. Jackson, Robinson, Il 62454
12-017-0020-0004

Nuttall Middle School
400 W. Rustic, Robinson, IL 62454
12-017-0020-1005

Lincoln Elementary
E Poplar Street, Robinson, IL 62454
12-017-0020-2004

Washington Elementary
W. Condit Street, Robinson, IL 62454
12-017-0020-2007

If you have any questions or need additional information, please contact me. Thank you.

Paul Weber
Operations Team
Phone 309-828-4259
Web www.idealenvironmental.com
Email pweber@idealenvironmental.com
2904 Tractor Lane, Bloomington, IL 61704

We Want Your Feedback!!!

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
AHERA THREE YEAR REINSPECTION

ASBESTOS PROGAM
SCHOOL INFORMATION FORM

SECTION I

SCHOOL DISTRICT	ROBINSON SCHOOL DIST 2		
SCHOOL_NAME:	WASHINGTON ELEM SCHOOL		
SCHOOL ID NUMBER:	12-017-0020-2007		
ADDRESS:	W CONDIT STREET		
CITY:	ROBINSON	IL	62454

LAST REINSPECTION DATE: 8/10/2021

SECTION II *(Please type or print)*

PLEASE COMPLETE THE FOLLOWING FOR YOUR CURRENT THREE YEAR REINSPECTION:

DATE REINSPECTION COMPLETED: 8-6-2024 ENROLLMENT 400
IDPH LICENSED INSPECTOR NAME: S Rock Steve Rock
IDPH LICENSE #: 100507 100-05617
IDPH LICENSED MANAGEMENT PLANNER NAME: Jerry L. Wilson
IDPH LICENSE #: 100-01338

DESIGNATED PERSON: Kyle Kuier PHONE: 618-544-7512
20622 8-6-24
Signature of Designated Person *Date*

SECTION III

PLEASE COMPLETE THE FOLLOWING INFORMATION FOR ANY CHANGES WITHIN THE SCHOOL DISTRICT.

School building has been sold. Date of Sale: _____
School has been closed. Date closed: _____
School building has been demolished. Date: _____
School building is asbestos free since last reinspection: _____

Please explain in writing why the school building is now asbestos free and include the supporting documentation.

If a new school building has been added to the district, submit either and exclusionary statement or a management plan and inspection report. Include the complete name, address and city of school building.

Other (explain): _____

IL 482-1026
Revised 09/05

IDPH
ILLINOIS DEPARTMENT OF PUBLIC HEALTH

525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

STEVE ROCK
300 WEST WAYNE ST
LEROY, IL 61752

2/28/2024

ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 05617

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

COPY OF THE ASBESTOS PROFESSIONAL LICENSE

Front of License

IDPH

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 05617	**2/28/2024**	**05/15/2025**

STEVE ROCK
300 WEST WAYNE ST
LEROY, IL 61752

Environmental Health

Back of License

ENDORSEMENTS	TC EXPIRES
SUPERVISOR/WORKER	11/9/2024
INSPECTOR	11/10/2024
MANAGEMENT PLANNER	11/10/2024
PROJECT MANAGER	11/9/2024
AIR SAMPLING PROFESSIONAL	

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is: dph.illinois.gov/topics-services/environmental-health-protection/asbestos
EMAIL Address: dph.asbestos@illinois.gov

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(630) 655-3900 | www.otssafety.com

2023

OCCUPATIONAL TRAINING & SUPPLY, INC.

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Steve Rock

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 11/10/2023

Exam Date: 11/10/2023

Expiration Date: 11/10/2024

Certificate Number: BIR2311103061

Kristina Miczek

Kristina Miczek, Training Manager

IDPH
ILLINOIS DEPARTMENT OF PUBLIC HEALTH

525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

JERRY L WILSON
407 NORTH CENTER ST.
COLFAX, IL 61728

2/28/2024

ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 01338

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

COPY OF THE ASBESTOS PROFESSIONAL LICENSE

Front of License

IDPH
ILLINOIS DEPARTMENT OF PUBLIC HEALTH

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER	ISSUED	EXPIRES
100 - 01338	2/28/2024	05/15/2025

JERRY L WILSON
407 NORTH CENTER ST.
COLFAX, IL 61728
Environmental Health

Back of License

ENDORSEMENTS	TC EXPIRES
INSPECTOR	11/10/2024
PROJECT DESIGNER	10/19/2024
MANAGEMENT PLANNER	11/10/2024
PROJECT MANAGER	11/9/2024
AIR SAMPLING PROFESSIONAL	

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois Department of Public Health
This license is valid only when accompanied by a valid training course certificate.

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is: dph.illinois.gov/topics-services/environmental-health-protection/asbestos
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2023

OCCUPATIONAL TRAINING & SUPPLY, INC.

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Jerry Wilson

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 11/10/2023

Exam Date: 11/10/2023

Expiration Date: 11/10/2024

Certificate Number: BIR2311103067

Kristina Miczek

Kristina Miczek, Training Manager

7233 S. Adams Street | Willowbrook, IL 60527
(630) 655-3900 | www.otssafety.com

2023

OCCUPATIONAL TRAINING & SUPPLY, INC.

Asbestos Management Planner Refresher

Occupational Training & Supply, Inc. certifies that

Jerry Wilson

has successfully completed the Asbestos Management Planner Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 11/10/2023

Exam Date: 11/10/2023

Expiration Date: 11/10/2024

Certificate Number: MPR2311103070

Kristina Miczek

Kristina Miczek, Training Manager

General Definitions

Asbestos Containing Material (ACM) - Material containing greater than 1% asbestos as determined by Polarized Light Microscopy (PLM).

Homogeneous Area – An area of material that is uniform in texture, size and color.

Friable – Describes a material that, when dry, can be crumbled, pulverized, or reduced to powder by hand pressure. See the General Comments section for more information on friability.

Material Type – The category in which the material is placed per AHERA definitions. The material type helps to determine the number of samples required to be collected for a material.

> **Surfacing Material** – Material that is sprayed-on, troweled-on or otherwise applied to surfaces, such as: acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing and other purposes.
> **Thermal System Insulation (TSI) Material** – Insulation applied to pipes, fittings, boilers, breeching, tanks, ducts and other structural components to prevent heat loss or gain.
> **Miscellaneous Material** – Any material which is not categorized as surfacing or thermal.

Damage Condition – The condition of the material in regard to damage. The damage condition is classified into three categories.

> **Not Damaged** – Material that has <1% localized or distributed damage as determined by an asbestos inspector.
> **Damaged** – Material that has 1-25% localized damage or 1-10% distributed damage as determined by an asbestos inspector.
> **Significantly Damaged** – Material that has >25% localized damage or >10% distributed damage as determined by an asbestos inspector.

Response Action – Identifies the appropriate action that the LEA should take regarding a material. A response action is assigned by an asbestos management planner and is required for all thermal system insulation materials and for all friable surfacing and miscellaneous materials.

O&M – Operations and maintenance

Accessible – For the purpose of this report, “accessible” materials, spaces or areas mean those materials, spaces or areas for which nothing is required to be removed in order to access the material, space or area (i.e. no walls, ceilings, floors, outlet covers, etc. are required to be removed).

Inaccessible – For the purpose of this report, “inaccessible” materials, spaces or areas mean those materials, spaces or areas for which something is required to be removed in order to access the material, space or area (i.e. a wall, ceiling, floor, outlet cover, etc. is required to be removed).

Additional Sampling – For the purpose of this report, “additional sampling” on the Asbestos Program Overview page shall mean any asbestos sampling done since the date of the initial asbestos inspection report.

Abatement Projects – For the purpose of this report, “abatement projects” on the Asbestos Program Overview page shall mean any removal work, which, due to the type of removal or quantity of removal, is or should be documented by an abatement design plan and abatement log records.

Floor Tile Removal Projects – For the purpose of this report, “floor tile removal projects” on the Asbestos Program Overview page shall mean floor tile removal work which is or should be documented as having been removed in the building using non-friable removal methods, if not done using gross removal methods.

Area Estimate – The quantity of accessible material.

Newly Installed Material – For the purpose of this reinspection, IDEAL defines a newly installed material as one installed since the date of a school’s initial inspection report. [Most initial inspection reports are dated 1988-1989.] Since asbestos is not currently banned in the United States, materials are considered suspect asbestos containing regardless of when they were installed. If any newly installed materials are planned to be disturbed — whether they are recorded as assumed to contain asbestos, simply documented as newly installed materials, or not documented at all in the asbestos management plan — then asbestos sampling protocol that is current at the time of disturbance will need to be reviewed.

Signed Exclusionary Statement / Architect Non-ACM Letter – Building materials installed during new building or building addition projects involving an architect can be excluded from periodic surveillance and reinspection for the ongoing asbestos management plan program, among other requirements, if there is a statement on file (signed by the architect of record) which declares that the use of non-asbestos containing materials was specified for the project. If no architect statement is present, the buildings cannot be excluded from periodic surveillance or reinspection. Also, regardless of the status of an architect statement, if any of these new materials will be disturbed during any planned renovation work, asbestos sampling protocol current at the time of disturbance will need to be reviewed.

General Comments

The friability and damage condition listed for each material in this report was based on the inspector's opinion of the condition of the material at the time of the reinspection and may differ from that of another inspector. Some materials which may be currently listed as non-friable in their current condition must be treated as friable during disturbance (i.e. nailing holes, renovation work, demolition, etc.), as they are likely to become friable during disturbance. These materials include but are not limited to transite, plaster, drywall, drywall joint compound and non-damaged thermal system insulation materials.

Accessible building areas were visually inspected for known and suspect asbestos containing materials. Suspect asbestos containing materials are generally any materials which are not metal, concrete, rubber, fiberglass, PVC, black foam glass, armaflex, silicone or wood. The inspection was non-destructive in nature, and no demolition of building components was performed in order to identify inaccessible materials, unless otherwise noted. IDEAL does not guarantee that all suspect asbestos containing materials have been identified. Suspect asbestos containing materials behind walls, under floors, or other similar inaccessible areas are often hidden from visual observation. IDEAL will not be held responsible for any misidentification of materials which are covered, such as by paint, wallpaper, carpet, etc. Any suspect asbestos containing materials not yet sampled must be assumed to contain asbestos until sampled.

Any buildings, building sections or areas which were locked or otherwise inaccessible at the time of the reinspection were not reinspected. Any suspect asbestos containing materials found within these buildings or building sections which have not been previously identified in the asbestos management plan must be assumed to contain asbestos until sampled.

Tunnels, crawlspaces, pipe chases, above ceiling panels or any other area may not have been entered or may have only been partially entered due to condition of materials, limited accessibility and/or confined space concerns. It is the intent of IDEAL to perform a thorough inspection. However, all spaces, corners, surfaces, etc. may not be inspected due to classes being in session, restrooms and locker rooms occupied, meetings in session, rooms locked, stored items blocking areas, etc. While inaccessible materials, spaces or areas are excluded from the scope of this work, some may have been inspected.

In cases where installation methods are concealed or not readily apparent, it may be assumed that mastic is present.

We recommend ensuring that your custodial/maintenance staff and outside contractors, such as plumbers, are fully aware of all known or assumed asbestos containing materials in the building. Disturbance of these materials, even done without knowledge, can cause costly major or minor fiber releases and could potentially result in fines and penalties.

Previous recommendations may not be noted but may still apply.

Please note that a three-year reinspection does not address materials in the building which have been previously sampled and found to be non-asbestos containing. Therefore, it is important to look at all asbestos management plan documentation (original inspection report and all subsequent sampling reports) for information on previously identified non-asbestos containing materials.

If available, care has been taken to accurately describe building years for the location of materials. The years noted must be considered general guidance. It is often difficult to determine one building addition from another. This combined with other factors, such as building renovations and onsite time constraints, may result in a material being documented in the wrong building year.

If provided, cost projections and quantity estimates of material are based solely on accessible areas (as defined in the General Definitions) and may not include materials under carpet, behind walls, above ceilings, inside boilers, under floors, etc. Quantity estimates are provided as a general indication of the amount of material present. Quantity estimates are not guaranteed. All quantities and conditions that affect costs for asbestos removal and disposal should be verified prior to asbestos removal.

Please note that an inspection prior to renovation or demolition is required to meet NESHAP regulations. This report is not a substitute for such an inspection. If suspect asbestos containing materials not previously identified are found during demolition or renovation work, the work must stop, and the materials must be sampled and removed (if applicable) prior to proceeding with demolition or renovation work.

When an assumed asbestos containing material is damaged, the report may indicate to remediate the damage. It is still necessary to sample the material first, and the need to remediate is based on the material being found to contain asbestos once sampled.

Room numbers, room dimensions, occupant names, buildings years, etc. may not be accurate in this report if information provided to us, such as on a diagram, was not current.

A material may be called "fireproofing" in this report for general description purposes: however, such a description shall not mean that it is a fire-rated material.

This report shall not be reproduced, except in full, without the written consent of IDEAL. Record retention by IDEAL is not guaranteed. IDEAL reserves the right to provide copies of chains of custody rather than originals, as the originals will only be archived for a limited period of time.

This report and the general comments herein are our interpretations of the regulations affecting K-12 school buildings. No warranty or guarantee, expressed or implied, is made as to the conclusions and/or professional advice and recommendations included in this report.

The scope of work presented in this report was based on an understanding between IDEAL and client, whether the understanding was from verbal conversation or written document(s). The scope of work and report shall be deemed accepted by client unless client advises to the contrary in writing to IDEAL within 10 days of the date the report was sent.

SECTION 08 7100 - DOOR HARDWARE
PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.
2. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Automatic operators.
4. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 08 Section “Flush Wood Doors”.
3. Division 08 Section “Bullet Resistant Doors and Frame”.
4. Division 08 Section “Aluminum-Framed Entrances and Storefronts”.
5. Division 08 Section “Automatic Door Operators”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. UL/ULC and CSA C22.2 - Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
8. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards as applicable. Any undated reference to a standard shall be interpreted as referring to the latest edition of that standard:

1. ANSI/BHMA Certified Product Standards - A156 Series.
2. UL10C - Positive Pressure Fire Tests of Door Assemblies.

3. ANSI/UL 294 - Access Control System Units.
4. UL 305 - Panic Hardware.
5. ANSI/UL 437- Key Locks.

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing, fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
3. Content: Include the following information:

    a. Type, style, function, size, label, hand, and finish of each door hardware item.
    b. Manufacturer of each item.
    c. Fastenings and other pertinent information.
    d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
    e. Explanation of abbreviations, symbols, and codes contained in schedule.
    f. Mounting locations for door hardware.
    g. Door and frame sizes and materials.
    h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:

    a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
    b. Complete (risers, point-to-point) access control system block wiring diagrams.
    c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

1.4 CLOSEOUT SUBMITTALS

A. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

B. Project Record Documents: Provide record documentation of as-built door hardware sets in digital format (.pdf, .docx, .xlsx, .csv) and as required in Division 01, Project Record Documents.

1.5 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Certified Products: Where specified, products must maintain a current listing in the Builders Hardware Manufacturers Association (BHMA) Certified Products Directory (CPD).

C. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

D. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

F. Each unit to bear third party permanent label indicating compliance with the referenced testing standards.

G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

I. At completion of installation, provide written documentation that components were applied according to manufacturer's instructions and recommendations and according to approved schedule.

1.6 DELIVERY, STORAGE AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.7 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.8 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Warranty Period: Unless otherwise indicated, warranty shall be one year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 BUTT HINGES

A. Hinges: ANSI/BHMA A156.1 butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:

a. Two Hinges: For doors with heights up to 60 inches.
b. Three Hinges: For doors with heights 61 to 90 inches.
c. Four Hinges: For doors with heights 91 to 120 inches.
d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:

a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.

b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:

a. Non-removable Pins: With the exception of electric through wire hinges, provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for all out-swinging lockable doors.

5. Manufacturers:

a. McKinney (MK) - TA/T4A Series, 5-knuckle.

2.2 CONTINUOUS HINGES

A. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 continuous geared hinge. with minimum 0.120-inch thick extruded 6063-T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:.

a. Pemko (PE).

2.3 POWER TRANSFER DEVICES

A. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

a. Securitron (SU) - EL-EPT Series.

B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:

    a. McKinney (MK) - Electrical Connecting Kit: QC-R001.
    b. McKinney (MK) - Connector Hand Tool: QC-R003.

2. Manufacturers:

    a. McKinney (MK) - QC-C Series.

2.4 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: Provide products conforming to ANSI/BHMA A156.3 and A156.16, Grade 1.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
5. Manufacturers:

    a. Rockwood (RO).

B. Door Push Plates and Pulls: ANSI/BHMA A156.6 door pushes and pull units of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.
4. Pulls, where applicable, shall be provided with a 10” clearance from the finished floor on the push side to accommodate wheelchair accessibility.
5. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets. When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.
6. Manufacturers:

    a. Rockwood (RO).

2.5 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

1. Manufacturers:

a. Sargent Manufacturing (SA).
b. Match Existing, Field Verify.
c. No Substitution.

B. Cylinder Types: Original manufacturer cylinders able to supply the following cylinder formats and types:

1. Threaded mortise cylinders with rings and cams to suit hardware application.
2. Rim cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored or cylindrical lock cylinders with tailpieces as required to suit locks.
4. Tubular deadlocks and other auxiliary locks.
5. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
6. Keyway: Match Facility Standard.

C. Keying System: Each type of lock and cylinders to be factory keyed.

1. Supplier shall conduct a "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key cylinders to match Owner's existing system.

D. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Three (3).
2. Master Keys (per Master Key Level/Group): Five (5).

E. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.6 MORTISE LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): Provide ANSI/BHMA A156.13, Series 1000, Operational Grade 1 Certified Products Directory (CPD) listed mortise locksets. Listed manufacturers shall meet all functions and features as specified herein.

1. Manufacturers:

a. Sargent Manufacturing (SA) - 8200 Series.

2.7 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.8 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer’s catalog and template book for specific requirements.
3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.
4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
5. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.

    a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
    b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

6. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
7. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2” wide stiles.
8. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
9. Rail Sizing: Provide exit device rails factory sized for proper door width application.
10. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 Certified Products Directory (CPD) listed exit devices. Listed manufacturers shall meet all functions and features as specified herein.

1. Electromechanical exit devices shall have the following functions and features:

a. Universal Molex plug-in connectors that have standardized color-coded wiring and are field configurable in fail safe or fail secure and operate from 12vdc to 24vdc regulated.
b. EcoFlex or equivalent technology that reduces energy consumption up to 92% as certified by GreenCircle.
c. Options to be available for request-to-exit or enter signaling, latchbolt and touchbar monitoring.
d. Field configurable electrified trim to fail-safe or fail-secure that operates from 12-24VDC.
e. Five-year limited warranty for electromechanical features.

2. Manufacturers:

a. Sargent Manufacturing (SA) - 80 Series.

2.9 SURFACE DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers.
2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
3. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the Americans with Disabilities Act, provide units complying with ANSI ICC/A117.1.
4. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
5. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard..

1. Manufacturers:

a. Sargent Manufacturing (SA) - 351 Series.

2.10 ELECTROMECHANICAL DOOR OPERATORS

A. Electromechanical Door Operators (High Traffic): Provide ANSI/BHMA A156.19 Certified Products Directory (CPD) listed low energy operators that are UL325/991 and UL10C certified and comply with requirements for the Americans with Disabilities Act (ADA). Operators shall accommodate openings up to 250 pounds and 48” wide.

1. Provide operators with features as follows:

a. Non-handed with push and pull side mounting.
b. Activation by push button, hands-free or radio frequency devices.
c. Adjustable opening force and closing power.
d. Two-year limited warranty.
e. Wi-Fi interface where the operator is a secure, password protected WiFi hot spot with no connection to building’s IT required.
1) Simple setup with no app required.
2) View status and make adjustments without removing the cover.
3) Built-in logic to support single use restroom applications with no external relay boards, logic modules, position switches required.
f. Mounting backplate to simplify and speed up installation.
g. Integration with access control systems.

2. Operators shall have the following functionality:

a. Adjustable Hold Open: Amount of time a door will stay in the full open position after an activation.
b. Blow Open for Smoke Ventilation: Door opens when signal is received from alarm system allowing air or smoke to flow through opening. Door will stay open until signal from alarm system is stopped.
c. Emergency Interface Relay: Door closes and ignores any activation input until signal is discontinued.
d. Infinite Hold Open: Door will hold open at set position until power is turned off.
e. Latch Assist: At closed position, after an activation, the door is pulled in. After the door has closed, the door is pulled in to assist with latch release/engagement.
f. Obstruction Detection: Door closes if it hits an obstruction while opening; door will reverse to open position if it hits an obstruction while closing. Door will stop once it hits an obstruction and will rest against the obstruction until removed.
g. Open Delay: Delays operator opening for locking hardware.
h. Outside Wall Switch Disable: When contact is closed, outside wall switch is disabled.
i. Power Assist: Senses the door is being opened manually and applies small amount of power to assist the user in opening the door with force less than 5 lbs. The door opens only as far as it is moved manually, then closes once released.
j. Power Close: Additional force to assist door closing between 7° and 2°.
k. Presence Detector Input: Input for external sensor to detect presence at door open or close position only.
l. Push & Go: As the door is manually opened, the operator "senses" movement and opens door to the full-open position.
m. Selector Mode Switch: Off disables the signal inputs unless Blow Open is activated, on activates the signal inputs, hold open activates the unit (unless Blow Closed is activated) to the hold open position.

n. Vestibule Delay: When the wall switch is pressed, first door in vestibule will open. Second door will open once vestibule door delay has expired. Delay is adjustable.
o. Executive Mode Feature: When the door receives an activation signal it opens and remains open until either a second signal is received, or the door is manually moved in closing direction.

3. Manufacturers:

a. Norton Rixson (NO) - 6300 Series.

B. Electromechanical Sliding Door Operators (Moderate/High Traffic): Provide low energy operators that comply with requirements for the Americans with Disabilities Act (ADA). Operators shall accommodate openings up to 400 pounds and 36” wide. Listed manufacturers shall meet all functions and features as specified herein.

1. Provide operators with functions and features as follows:

a. Adjustable 0-24 second open time.
b. Three operation modes: auto with open-assist, hold open and lock modes.
c. Activation via push button, keypad or wave sensor as specified.
d. Customizable DIP switches for power level for lightweight or heavy doors, slam-shut functionality and beeper alerts.

2. Manufacturers:

a. Pemko (PE) - PemkoMatic Series.
b. No Substitution.

2.11 SURFACE MOUNTED CLOSER HOLDERS

A. Motion Sensor Closer Holder Devices: ANSI A156.15, Grade 1 multi-point electromechanical closers with a programmable motion sensor allowing the door to open manually and remain open when one or more people travel through the opening. Listed manufacturers shall meet all functions and features as specified herein.

1. Provide closer holders with functions and features as follows:

a. UL-cUL listed and UL10C compliant for positive pressure up to 3-hours.
b. Selectable hold open time and sensitivity.
c. Sensor that detects movement in both directions.
d. Push or pull side mounting with the closer mounted on the frame.
e. Standard separate and independent latch, sweep, and backcheck intensity valves.
f. Two-year limited warranty.

2. Manufacturers:

a. Norton Rixson (NO) - 7100SZ Series.
b. LCN Door Closers (LC) - 4310/4410HSA Series.
c. No Substitution.

B. Electromagnetic Door Holders: ANSI A156.15, Grade 1 electromagnetic door holder/releases with a minimum 25 to 40 pounds holding power and fail-safe operation; power failure releases door to close.

1. Manufacturers:

a. LCN Door Closers (LC) - SEM7800 Series.
b. Norton Rixson (RF) - 900 Series.
c. Sargent Manufacturing (SA) - 1560 Series.
d. No Substitution.

2.12 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1” LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16” above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer’s catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 protection plates (kick, armor, or mop), fabricated from the following:

a. Stainless Steel: 300 grade, 050-inch thick.

5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:

a. Rockwood (RO).

2.13 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

a. Rockwood (RO).

2.14 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NFPA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. Pemko (PE).

2.15 ELECTRONIC ACCESSORIES

A. Push-Button Switches: Industrial grade momentary or alternate contact, back-lighted push buttons with stainless-steel switch enclosures. 12/24 VDC bi-color illumination suitable for either flush or surface mounting.

1. Manufacturers:

a. Alarm Controls (AK) - TS Series.
b. Securitron (SU) - PB Series.

B. Linear Power Supplies: Filtered and regulated power for electrified hardware. Listed manufacturers shall meet all functions and features as specified herein.

1. Provide power supplies with functions and features as follows:

a. 120VAC input with selectable output at 12VDC (6 amp) or 24VDC (3 amp).
b. Internal back-up battery (batteries not included) charging circuit.
c. Regulated and filtered, fuse protected outputs.
d. Each output can be individually turned on and off via a jumper.
e. Power status of each output is shown by an LED.

f. Fire alarm interface; dry contacts NO/NC, 9-33VDC, 3-15mA.

2. Manufacturers:

a. Sargent (SA) - LSP Series.
b. No Substitution.

C. Switching Power Supplies: Provide the least number of power supplies at the appropriate amperage level sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.

D. Intelligent Switching Power Supplies: Provide the least number of power supplies at the appropriate amperage level sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.

1. Manufacturers:

a. Securitron (SU) - AQL Series.

2.16 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.17 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.3 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.

1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. DHI TDH-007-20: Installation Guide for Doors and Hardware.
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Push Plates and Door Pulls: When through-bolt fasteners are in the same location as a push plate, countersink the fasteners flush with the door face allowing the push plate to sit flat against the door.

E. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

F. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.4 ADJUSTING

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

3.5 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.6 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.
2. The supplier is responsible for handing and sizing all products.
3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

Hardware Sets

Set: 1.0

Doors: 101-1, 101A-1, 129-1, C101-2

1	Continuous Hinge	CFM83SLI or F-HD1 SER		PE
1	Continuous Hinge	CFM83SLI or F-HD1		PE
1	Mullion	L980A	US28	SA
1	Rim Exit Device, Exit Only	55 56 AD8510 EO x Less Pull	US32D	SA
1	Rim Exit Device, Exit Only	AD8510 EO 113 x Less Pull	US32D	SA
2	Cylinder (Mullion)	980C1	US26D	SA
2	Pull	RM201 Mtg-Type 1XHD	US32D	RO
2	Surface Closer	TB 351 CPS	EN	SA
1	Automatic Opener	6331	689	NO
2	Sweep	3452APK		PE
1	Threshold	2005AT FHSL14SS		PE
1	ElectroLynx Harness	QC-C*** As Req'd		MK
1	ElectroLynx Harness	QC-C***P Per Door Size		MK

2	Actuator Switch	671		NO
1	Power Supply	AQL		SU
1	Card Reader	Provided by Security Contractor		OT

Notes: Exit device with electric latch retraction on one leaf for access control and use with the automatic operator. Credential reader, request to exit by security contractor. Door is normally closed, latched and secured. Valid credential for ingress, free egress at all times. Co-ordinate with security and electrical. Perimeter weatherstrip by the aluminum door / frame supplier.

Set: 2.0

Doors: X101-3X

1	Continuous Hinge	CFM83SLI or F-HD1 SER		PE
1	Continuous Hinge	CFM83SLI or F-HD1		PE
2	Rim Exit Device, Exit Only	AD8510 EO 113 x Less Pull	US32D	SA
2	Pull	RM201 Mtg-Type 1XHD	US32D	RO
2	Surface Closer	351 CPS	EN	SA
2	Sweep	3452APK		PE
1	Threshold	2005AT FHSL14SS		PE
1	Power Supply	AQL		SU

Notes: Exit device with electric latch retraction on one leaf for access control. Door is normally closed, latched and secured. Free egress at all times. Perimeter weatherstrip by the aluminum door / frame supplier.

Set: 3.0

Doors: X101-4X

1	Continuous Hinge	CFM83SLI or F-HD1 SER		PE
1	Continuous Hinge	CFM83SLI or F-HD1		PE
1	Rim Exit Device, Exit Only	55 56 AD8510 EO x Less Pull	US32D	SA
1	Rim Exit Device, Exit Only	AD8510 EO 113 x Less Pull	US32D	SA
2	Pull	RM201 Mtg-Type 1XHD	US32D	RO
2	Surface Closer	351 CPS	EN	SA
1	Automatic Opener	6331	689	NO
2	Sweep	3452APK		PE
1	Threshold	2005AT FHSL14SS		PE
1	ElectroLynx Harness	QC-C*** As Req'd		MK
1	ElectroLynx Harness	QC-C***P Per Door Size		MK
2	Actuator Switch	671		NO

1	Power Supply	AQL		SU
1	Card reader	Provided by Security Contractor		OT

Notes: Exit device with electric latch retraction on one leaf for access control and use with the automatic operator. Credential reader, request to exit by security contractor. Door is normally closed, latched and secured. Valid credential for ingress, free egress at all times. Co-ordinate with security and electrical. Perimeter weatherstrip by the aluminum door / frame supplier. Remote release controls are to be compatible with existing control modules. There are two existing control modules, one to be located at each desk. Coordinate with existing security system/supplier as required. (ADD 01)

Set: 4.0

Doors: 107-2

1	Continuous Hinge	CFM83HD1		PE
1	Continuous Hinge	CFM83HD1 SER		PE
1	Mullion	L980S	PC	SA
2	Rim Exit Device, Storeroom	8804 ETNJ	US32D	SA
1	Cylinder (Mullion)	980C1	US26D	SA
2	Surface Closer	351 CPS	EN	SA
2	Kick Plate	K1050 10" CSK BEV	US32D	RO
1	Gasketing	303APKTST		PE
1	Rain Guard	346C TKSP		PE
2	Sweep	3452APK		PE
1	Threshold	2005AT FHSL14SS		PE

Notes: Exit device. Door is normally closed, latched and secured. Free egress at all times.

Set: 5.0

Doors: 102-2, 103-2, 104-2, 105-2, 106-2, 108-2, 131-2, 132-2, 133-2, 134-2, 135-2, 136-2

1	Continuous Hinge	CFM83HD1		PE
1	Rim Exit Device, Exit Only	8810 EO	US32D	SA
1	Surface Closer	351 CPS	EN	SA
1	Kick Plate	K1050 10" CSK BEV	US32D	RO
1	Gasketing	303APKTST		PE
1	Rain Guard	346C TKSP		PE
1	Sweep	3452APK		PE
1	Threshold	2005AT FHSL14SS		PE

Notes: No door hardware on the outside.

Set: 6.0

Doors: 101C-1, 107-1, 109-1, 110-1, 127-1, 130-1

6	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
2	Flush Bolt	555	US26D	RO
1	Dust Proof Strike	570	US26D	RO
1	Storeroom/Closet Lock	8204 ONJ	US26D	SA
2	Wall Stop	409	US32D	RO
2	Silencer	608-RKW		RO

Set: 7.0

Doors: 115-1

6	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
2	Push / Pull Set	RM251 Mtg-Type 12XHD Mtg-Type 11XHD	US32D	RO
2	Surface Closer	351 O/P	EN	SA
2	Wall Stop	409	US32D	RO
2	Silencer	608-RKW		RO

Set: 8.0

Doors: 129-2

4	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
2	Hinge, Full Mortise	TA2714 QC 4-1/2" x 4-1/2"	US26D	MK
2	Push / Pull Set	RM251 Mtg-Type 12XHD Mtg-Type 11XHD	US32D	RO
2	Surface Closer	351 O/P	EN	SA
2	Wall Stop	409	US32D	RO
1	Automatic Opener	6331	689	NO
2	Actuator Switch	671		NO
1	ElectroLynx Harness	QC-C*** As Req'd		MK
1	ElectroLynx Harness	QC-C***P Per Door Size		MK
1	Power Supply	AQL		SU

Notes: Exit device with electric latch retraction for use with automatic operator. Coordinate with electrical.

Set: 9.0

Doors: C-X106-1

6	Hinge, Full Mortise, Hvy Wt	T4A3786 4-1/2" x 4-1/2"	US26D	MK

2	Surface Vert Rod Exit, Passage	12 8715 ETNJ	US32D	SA
2	Surface Closer	351 O/P	EN	SA
2	Electromagnetic Holder	998M	689	RF
1	Gasketing	S88BL		PE

Notes: Magnetic door holders to be wired to the alarm system to release the doors for closing in case of an emergency.

Set: 10.0

Doors: 112-1, 112-2, 123-1

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Storeroom/Closet Lock	8204 ONJ	US26D	SA
1	Surface Closer	351 O/P	EN	SA
1	Wall Stop	409	US32D	RO
1	Silencer	608-RKW		RO

Set: 11.0

Doors: 119-1, 125-1, 125-2, C102-1, C102-2, X132-1

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Office/Entry Lock	8205 ONJ	US26D	SA
1	Surface Closer	351 O/P	EN	SA
1	Wall Stop	409	US32D	RO
1	Silencer	608-RKW		RO

Set: 12.0

Doors: 116-1, 126-1, 128-1

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Office/Entry Lock	8205 ONJ	US26D	SA
1	Wall Stop	409	US32D	RO
1	Silencer	608-RKW		RO

Set: 13.0

Doors: 101A-2

2	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Hinge, Full Mortise	TA2714 QC 4-1/2" x 4-1/2"	US26D	MK
1	Rim Exit Device, Classroom	55 56 8813 ETNJ	US32D	SA
1	Automatic Opener	6331	689	NO

1	Kick Plate	K1050 10" CSK BEV	US32D	RO
1	Wall Stop	409	US32D	RO
1	Silencer	608-RKW		RO
1	ElectroLynx Harness	QC-C*** As Req'd		MK
1	ElectroLynx Harness	QC-C***P Per Door Size		MK
2	Actuator Switch	671		NO
1	Power Supply	AQL		SU

Notes: Exit device with electric latch retraction for use with the automatic operator.

Set: 14.0

Doors: 124-1, 124-2

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Passage Latch	8215 ONJ	US26D	SA
1	Surface Closer	351 O/P	EN	SA
1	Wall Stop	409	US32D	RO
1	Silencer	608-RKW		RO

Set: 15.0

Doors: 122-1

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Classroom Lock	8237 ONJ	US26D	SA
1	Wall Stop	409	US32D	RO
3	Silencer	608-RKW		RO

Set: 16.0

Doors: 102-1, 103-1, 104-1, 105-1, 106-1, 108-1, 131-1, 132-1, 133-1, 134-1, 135-1, 136-1

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Classroom Lock	V21 8237 ONJ	US26D	SA
1	Surface Closer	351 O/P	EN	SA
1	Kick Plate	K1050 10" CSK BEV	US32D	RO
1	Wall Stop	409	US32D	RO
3	Silencer	608-RKW		RO

Notes: Classroom Indicators on both sides.

Set: 17.0

Doors: 114-1, T117-1, T118-1

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Privacy Lock w/ Indicator	V21 8265 ONJ	US26D	SA
1	Surface Closer	351 O/P	EN	SA
1	Wall Stop	409	US32D	RO
1	Silencer	608-RKW		RO

Set: 18.0

Doors: T102-1, T103-1, T104-1, T105-1, T106-1, T108-1, T131-1, T132-1, T133-1, T134-1, T135-1, T136-1

3	Hinge, Full Mortise	TA2714 4-1/2" x 4-1/2"	US26D	MK
1	Push Plate	70C-RKW	US32D	RO
1	Pull Plate	107x70C	US32D	RO
1	Surface Closer	351 O/P	EN	SA
1	Wall Stop	409	US32D	RO
1	Gasketing	S88BL		PE

Notes: Passage Lockset.

Set: 19.0

Doors: X101-3

1	Continuous Hinge	CFM83SLF-HD1		PE
1	Continuous Hinge	CFM83SLF-HD1 EL-EPT		PE
2	Rim Exit Device, Exit Only	AD8510 EO 113 x Less Pull	US32D	SA
2	Surface Closer	TB 351 CPS	EN	SA
2	Kick Plate	K1050 10" CSK BEV	US32D	RO
2	Security Lite Kit	BR-7 22" x 60" TORX GT-118	BPR	NG

Notes: Level 3 Bullet Resistant Opening. Entry by key when locked. Free egress at all times.

Set: 20.0

Doors: X101-4

1	Continuous Hinge	CFM83SLF-HD1		PE
1	Continuous Hinge	CFM83SLF-HD1 EL-EPT		PE
1	Rim Exit Device, Exit Only	55 56 AD8510 EO x Less Pull	US32D	SA
1	Rim Exit Device, Exit Only	AD8510 EO 113 x Less Pull	US32D	SA
1	Surface Closer	TB 351 CPS	EN	SA
1	Automatic Opener	6331	689	NO

2	Kick Plate	K1050 10" CSK BEV	US32D	RO
1	ElectroLynx Harness	QC-C006P		MK
1	ElectroLynx Harness	QC-C3000P		MK
2	Actuator Switch	671		NO
1	Power Supply	AQL		SU
2	Door Release	TS-18		AK

Notes: Level 3 Bullet Resistant Opening. Card reader by the security contractor.
Entry by valid input at reader to retract the latch, remote release by reception, or manual key when locked. Free egress at all times. release buttons for each admin desk.

END OF SECTION 087100

SECTION 28 4600 - FIRE DETECTION AND ALARM

PART 1 GENERAL

1.1. SECTION INCLUDES

A. Initiating devices and notification devices for an existing fire alarm system

B. Fire alarm system design and installation, including all components, wiring, and conduit.

C. Circuits from protected premises to supervising station, including conduit.

D. Replacement and removal of existing fire alarm system components, wiring, and conduit indicated.

E. Maintenance of fire alarm system under contract for specified warranty period.

1.2. RELATED REQUIREMENTS

A. Section 07 8400 - Firestopping: Materials and methods for work to be performed by this installer.

B. Designed using manufacturer's product-specific design software or based on manufacturer's pre-engineered design suitable for the application.

C. Section 08 7100 - Door Hardware: Electrically operated locks and door holder devices to be monitored and released by fire alarm system.

D. Section 14 2100 - Electric Traction Elevators: Elevator systems monitored and controlled by fire alarm system.

E. Section 21 1300 - Fire-Suppression Sprinkler Systems: Supervisory, alarm, and actuating devices installed in sprinkler system.

F. Section 23 3300 - Air Duct Accessories: Smoke dampers monitored and controlled by fire alarm system.

1.3. REFERENCE STANDARDS

A. 36 CFR 1191 - Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.

B. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.

C. IEEE C62.41.2 - IEEE Recommended Practice on Characterization of Surges in Low-Voltage (1000 V and less) AC Power Circuits; 2002 (Corrigendum 2012).

D. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

E. NFPA 72 - National Fire Alarm and Signaling Code; Most Recent Edition Cited by Referring Code or Reference Standard.

F. NFPA 101 - Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

G. IFC - Internation Fire Code; Most Recent Edition Adopted by the Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.4. SUBMITTALS

A. See Section 01 3000 - Administrative Requirements, for submittal procedures.

B. Drawings must be prepared as reproducible drawings.

1. Architect will provide CAD floor plan drawings for Contractor's use upon Contractor's completion of Waiver of Liability Agreement form.

C. Evidence of designer qualifications. Design must be completed by a NICET level IV designer, minimum.

D. Design Documents: Submit all information required for plan review and permitting by authorities having jurisdiction, including but not limited to floor plans, riser diagrams, and description of operation:
   1. Copy (if any) of list of data required by authority having jurisdiction.
   2. NFPA 72 "Record of Completion", filled out to the extent known at the time.
   3. Clear and concise description of operation, with input/output matrix similar to that shown in NFPA 72 Appendix A-7-5-2.2(9), and complete listing of software required.
   4. System zone boundaries and interfaces to fire safety systems.
   5. Location of all components, circuits, and raceways; mark components with identifiers used in control unit programming.
   6. Circuit layouts; number, size, and type of raceways and conductors; conduit fill calculations; spare capacity calculations; notification appliance circuit voltage drop calculations.
   7. List of all devices on each signaling line circuit, with spare capacity indicated.
   8. Manufacturer's detailed data sheet for each component, including wiring diagrams, installation instructions, and circuit length limitations.
   9. Description of power supplies; if secondary power is by battery include calculations demonstrating adequate battery power.
   10. Certification by either the manufacturer of the control unit or by the manufacturer of each other component that the components are compatible with the control unit.
   11. Certification by the manufacturer of the control unit that the system design complies with Contract Documents.
   12. Certification by Contractor that the system design complies with Contract Documents.
   13. Do not show existing components to be removed.

E. Evidence of installer qualifications. Installer must be hold a NICET level III certificate, minimum.

F. Evidence of instructor qualifications; training lesson plan outline.

G. Evidence of maintenance contractor qualifications, if different from installer.

H. Inspection and Test Reports:
   1. Submit inspection and test plan prior to closeout demonstration.
   2. Submit documentation of satisfactory inspections and tests.
   3. Submit NFPA 72 "Inspection and Test Form," filled out.

I. Operating and Maintenance Data: See Section 01 7800 for additional requirements; revise and resubmit until acceptable; have one set available during closeout demonstration:
   1. Original copy of NFPA 72 with portions that are not relevant to this project neatly crossed out by hand; label with project name and date.
   2. Complete set of specified design documents, as approved by authority having jurisdiction.
   3. Additional printed set of project record documents and closeout documents, bound or filed in same manuals.
   4. Contact information for firm that will be providing contract maintenance and trouble call-back service.
   5. List of recommended spare parts, tools, and instruments for testing.
   6. Replacement parts list with current prices, and source of supply.
   7. Detailed troubleshooting guide and large scale input/output matrix.

8. Preventive maintenance, inspection, and testing schedule complying with NFPA 72; provide printed copy and computer format acceptable to Owner.
9. Detailed but easy to read explanation of procedures to be taken by non-technical administrative personnel in the event of system trouble, when routine testing is being conducted, for fire drills, and when entering into contracts for remodeling.

J. Project Record Documents: See Section 01 7800 for additional requirements; have one set available during closeout demonstration:
1. Complete set of floor plans showing actual installed locations of components, conduit, and zones.
2. "As installed" wiring and schematic diagrams, with final terminal identifications.
3. "As programmed" operating sequences, including control events by device, updated input/output chart, and voice messages by event.

K. Closeout Documents:
1. Certification by manufacturer that the system has been installed in compliance with manufacturer's installation requirements, is complete, and is in satisfactory operating condition.
2. NFPA 72 "Record of Completion", filled out completely and signed by installer and authorized representative of authority having jurisdiction.
3. Certificate of Occupancy.
4. Maintenance contract.

L. Maintenance Materials, Tools, and Software: Furnish the following for Owner's use in maintenance of project.
1. See Section 01 6000 - Product Requirements, for additional provisions.
2. Furnish spare parts of same manufacturer and model as those installed; deliver in original packaging, labeled in same manner as in operating and maintenance data and place in spare parts cabinet.
3. In addition to the items in quantities indicated in PART 2, furnish the following:
   a. All tools, software, and documentation necessary to modify the fire alarm system using Owner's personnel; minimum modification capability to include addition and deletion of devices, circuits, and zones, and changes to system description, operation, and evacuation and instructional messages.
   b. One copy, on CD-ROM, of all software not resident in read-only-memory.
   c. Extra Fuses: Two for each installed fuse; store inside applicable control cabinet.

1.5. QUALITY ASSURANCE

A. Copies of Design Criteria Documents: Maintain at the project site for the duration of the project, bound together, an original copy of NFPA 72, the relevant portions of applicable codes, and instructions and guidelines of authorities having jurisdiction; deliver to Owner upon completion.

B. Designer Qualifications: NICET Level IV (4) certified fire alarm technician or registered fire protection engineer, employed by fire alarm control panel manufacturer, Contractor, or installer, with experience designing fire alarm systems in the jurisdictional area of the authorities having jurisdiction.

C. Installer Qualifications: Installer with a minimum NICET Level III (3) and three years experience installing fire alarm systems of the specified type and providing contract maintenance service as a regular part of their business.

1. Authorized representative of control unit manufacturer; submit manufacturer's certification that installer is authorized; include name and title of manufacturer's representative making certification.
2. Installer Personnel: At least 3 years of experience installing fire alarm systems.
3. Supervisor: NICET level III or IV (3 or 4) certified fire alarm technician; furnish name and address.
4. Contract maintenance office located within 50 miles of project site.
5. Certified in the State of Illinois as fire alarm installer.

D. Maintenance Contractor Qualifications: Same entity as installer or different entity with specified qualifications.

E. Instructor Qualifications: Experienced in technical instruction, understanding fire alarm theory, and able to provide the required training; trained by fire alarm control unit manufacturer.

F. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

1.6. WARRANTY

A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.

B. Provide control panel manufacturer's warranty that system components other than wire and conduit are free from defects and will remain so for 1 year after date of Substantial Completion.

C. Provide installer's warranty that the installation is free from defects and will remain so for 1 year after date of Substantial Completion.

PART 2 PRODUCTS

2.1. MANUFACTURERS

A. Contactor to verify existing fire alarm system.

B. Initiating Devices and Notification Appliances:
1. Same manufacturer as control units.
2. Provide initiating devices and notification appliances made by the same manufacturer, where possible.

C. Substitutions: See Section 01 6000 - Product Requirements.
1. For other acceptable manufacturers of control units specified, submit product data showing equivalent features and compliance with Contract Documents.
2. For substitution of products by manufacturers not listed, submit product data showing features and certification by Contractor that the design will comply with Contract Documents.

2.2. EXISTING FIRE ALARM SYSTEM

A. All devices and equipment added to the existing fire alarm system shall be 100% compatible with the existing system. All new devices and equipment shall be U.L. listed and shall conform to NFPA 72.

B. All new wiring shall be 100% compatible with the existing fire alarm system and shall be as directed by the manufacturer of the existing fire alarm system. The Electrical Contractor is to provide all fire alarm cable under this contract.

C. Provide hardware and programming modifications required to the existing alarm control panel and associated accessories to expand the existing system as indicated on the drawings. All modifications shall be complete by the manufacturer's authorized technician.

D. All wiring shall be verified with the fire alarm equipment supplier as to quantity, size, routing, conduit, junction box requirements, etc.

E. New visual alarm devices shall be 100% compatible with the existing fire alarm control panel; shall comply with ADA requirements; shall be listed and labeled per U.L. standard 1971; 15/75 cd. type strobe, unless otherwise noted. Surface mount devices at 80" above finished floor or at 6" below ceiling, whichever is lower. Provide associated back box and rough-in to above accessible ceiling space.

F. New booster power supply (BPS) shall be 100% compatible with the existing fire alarm control panel. Provide BPS unit(s) if existing control panel does not have capacity for additional alarm indicating devices. BPS shall be a single unit or multiple units as required to meet the specified requirements. BPS unit shall be housed in an enclosure with lockable door. BPS shall be equipped to allow activation from an existing notification appliance circuit. BPS unit shall provide 4 amps of notification appliance power distributed between two appliance circuits. BPS unit shall operate from a 120 VAC input and be equipped with a battery back up with associated battery charger. BPS shall be supervised for ground fault, overcurrent, open circuits and low battery conditions. Occurrence of any of these conditions shall create a trouble signal on the fire alarm control panel. BPS shall be U.L. listed and labeled as a fire alarm accessory for use with U.L. listed fire alarm control panel.

G. Fire alarm system modifications and expansion shall be installed and fully tested under the supervision of the manufacturer's specifications and the appropriate NFPA requirements. Reports of all testing during the installation shall be submitted to the Owner and Engineer upon request.

H. Before requesting final approval of tech installation, the installing contractor shall furnish a written statement to the effect that the system has been installed and tested in accordance with the manufacturer's specifications and the appropriate NFPA requirements.

I. Provide demonstration of the modified fire alarm systems to the Owner. Perform all the functions specified.

J. Submit a certificate of completion per NFPA 72.

2.3. FIRE ALARM SYSTEM

A. Fire Alarm System: Provide modifications and extensions to the existing automatic fire detection and alarm system:

1. Provide all components necessary, regardless of whether shown in Contract Documents or not.
2. Protected Premises: Entire building shown on drawings.
3. Comply with the following; where requirements conflict, order of precedence of requirements is as listed:
    a. ADA Standards.
    b. The requirements of the State Fire Marshal.
    c. The requirements of the local authority having jurisdiction.
    d. Applicable local codes.
    e. Contract Documents (drawings and specifications).
    f. NFPA 101.
    g. NFPA 72; where the word "should" is used consider that provision mandatory; where conflicts between requirements require deviation from NFPA 72, identify deviations clearly on design documents.
    h. International Fire Code.

4. Fire-alarm signal initiation shall be by one or more of the following devices :
    a. Manual stations.
    b. Heat detectors.
    c. Smoke detectors.
    d. Duct smoke detectors.
    e. Automatic sprinkler system water flow.
    f. Fire standpipe system.
5. Fire-alarm signal shall initiate the following actions:
    a. Supervisory signal initiation shall be by one or more of the following devices and actions:, including voice evacuation notices.
    b. Valve supervisory switch.
    c. High- or low-air-pressure switch of a dry-pipe or preaction sprinkler system.
    d. Alert and Action signals of air-sampling detector system.
    e. Fire pump running.
    f. Fire-pump loss of power.
    g. Fire-pump power phase reversal.
    h. Independent fire-detection and -suppression systems.
    i. User disabling of zones or individual devices.
    j. Loss of communication with any panel on the network.
6. System trouble signal initiation shall be by one or more of the following devices and actions:
    a. Open circuits, shorts, and grounds in designated circuits.
    b. Opening, tampering with, or removing alarm-initiating and supervisory signal-initiating devices.
    c. Loss of communication with any addressable sensor, input module, relay, control module, remote annunciator, printer interface, or Ethernet module.
    d. Loss of primary power at fire-alarm control unit.
    e. Ground or a single break in internal circuits of fire-alarm control unit.
    f. Abnormal ac voltage at fire-alarm control unit.
    g. Break in standby battery circuitry.
    h. Failure of battery charging.
    i. Abnormal position of any switch at fire-alarm control unit or annunciator.
    j. Voice signal amplifier failure.
    k. Hose cabinet door open.
7. System Supervisory Signal Actions:
    a. Initiate notification appliances.
    b. Identify specific device initiating the event at fire-alarm control unit.
    c. Record the event on system printer.
    d. After a 3 second time delay, transmit a trouble or supervisory signal to the remote alarm receiving station.
    e. Transmit system status to building management system.
    f. Display system status on graphic annunciator.

B. FIRE-ALARM CONTROL UNIT
1. General Requirements for Fire-Alarm Control Unit:
    a. Field-programmable, microprocessor-based, modular, power-limited design with electronic modules, complying with UL 864.

1) System software and programs shall be held in nonvolatile flash, electrically erasable, programmable, read-only memory, retaining the information through failure of primary and secondary power supplies.
2) Include a real-time clock for time annotation of events on the event recorder and printer.
3) Provide communication between the FCP and remote circuit interface panels, annunciators, and displays.
4) The FCP shall be listed for connection to a central-station signaling system service.
5) Provide nonvolatile memory for system database, logic, and operating system and event history. The system shall require no manual input to initialize in the event of a complete power down condition. The FCP shall provide a minimum 500-event history log.

b. Addressable Initiation Device Circuits: The FCP shall indicate which communication zones have been silenced and shall provide selective silencing of alarm notification appliance by building communication zone.
c. Addressable Control Circuits for Operation of Notification Appliances and Mechanical Equipment: The FCP shall be listed for releasing service.
d. Alphanumeric Display and System Controls: Arranged for interface between human operator at fire-alarm control unit and addressable system components including annunciation and supervision. Display alarm, supervisory, and component status messages and the programming and control menu.
e. Annunciator and Display: Liquid-crystal type, two line(s) of 40 characters, minimum.
f. Keypad: Arranged to permit entry and execution of programming, display, and control commands and to indicate control commands to be entered into the systems for control of smoke-density sensitivity and other parameters.

2. Initiating-Device, Notification-Appliance, and Signaling-Line Circuits:
   a. Pathway Class Designations: NFPA 72, Class A.
   b. Pathway Survivability: Level 2.
   c. Install no more than 50 addressable devices on each signaling-line circuit.
   d. Serial Interfaces:
      1) ne dedicated RS 485 port for central station, operation using point ID DACT.
      2) One RS 485 port for remote annunciators, Ethernet module, or multi-interface module (printer port).
      3) One USB port for PC configuration.
      4) One RS 232 port for VESDA HLI connection.
      5) One RS 232 port for voice evacuation interface.
3. Stairwell and Elevator Shaft Pressurization: Provide an output signal using an addressable relay to start the stairwell and Elevator Shaft pressurization system. Signal shall remain on until alarm conditions are cleared and fire-alarm system is reset. Signal shall not stop in response to alarm acknowledge or signal silence commands.
   a. Pressurization starts when any alarm is received at fire-alarm control unit.
   b. Alarm signals from smoke detectors at pressurization air supplies have a higher priority than other alarm signals that start the system.
4. Smoke-Alarm Verification:
   a. Initiate audible and visible indication of an "alarm-verification" signal at fire-alarm control unit.

b. Activate an approved "alarm-verification" sequence at fire-alarm control unit and detector.
c. Record events by the system printer.
d. Sound general alarm if the alarm is verified.
e. Cancel fire-alarm control unit indication and system reset if the alarm is not verified.

5. Notification-Appliance Circuit:
   a. Audible appliances shall sound in a three-pulse temporal pattern, as defined in NFPA 72.
   b. Where notification appliances provide signals to sleeping areas, the alarm signal shall be a 520-Hz square wave with an intensity 15 dB above the average ambient sound level or 5 dB above the maximum sound level, or at least 75 dBA, whichever is greater, measured at the pillow.
   c. Visual alarm appliances shall flash in synchronization where multiple appliances are in the same field of view, as defined in NFPA 72.
6. Door Controls: Door hold-open devices that are controlled by smoke detectors at doors in smoke-barrier walls shall [be] [not be] connected to fire-alarm system.
7. Remote Smoke-Detector Sensitivity Adjustment: Controls shall select specific addressable smoke detectors for adjustment, display their current status and sensitivity settings, and change those settings. Allow controls to be used to program repetitive, time-scheduled, and automated changes in sensitivity of specific detector groups. Record sensitivity adjustments and sensitivity-adjustment schedule changes in system memory, and print out the final adjusted values on system printer.
8. Transmission to Remote Alarm Receiving Station: Automatically transmit alarm, supervisory, and trouble signals to a remote alarm station.
9. Voice/Alarm Signaling Service: Central emergency communication system with redundant microphones, preamplifiers, amplifiers, and tone generators provided in a seperate cabinet located in the fire command center.
   a. Indicate number of alarm channels for automatic, simultaneous transmission of different announcements to different zones or for manual transmission of announcements by use of the central-control microphone. Amplifiers shall comply with UL 1711.
      1) Allow the application of, and evacuation signal to, indicated number of zones and, at the same time, allow voice paging to the other zones selectively or in any combination.
      2) Programmable tone and message sequence selection.
      3) Standard digitally recorded messages for "Evacuation" and "All Clear."
      4) Generate tones to be sequenced with audio messages of type recommended by NFPA 72 and that are compatible with tone patterns of notification-appliance circuits of fire-alarm control unit.
   b. Status Annunciator: Indicate the status of various voice/alarm speaker zones and the status of firefighters' two-way telephone communication zones.
   c. Preamplifiers, amplifiers, and tone generators shall automatically transfer to backup units, on primary equipment failure.
10. Printout of Events: On receipt of signal, print alarm, supervisory, and trouble events. Identify zone, device, and function. Include type of signal (alarm, supervisory, or trouble) and date and time of occurrence. Differentiate alarm signals from all other printed indications. Also print system reset event, including same information for device, location, date, and time.

Commands initiate the printing of a list of existing alarm, supervisory, and trouble conditions in the system and a historical log of events.

11. Primary Power: 24-V dc obtained from 120-V ac service and a power-supply module. Initiating devices, notification appliances, signaling lines, trouble signals, [supervisory signals] [supervisory and digital alarm communicator transmitters] [and] [digital alarm radio transmitters]shall be powered by 24-V dc source.
    a. Alarm current draw of entire fire-alarm system shall not exceed 80 percent of the power-supply module rating.
12. Secondary Power: 24-V dc supply system with batteries, automatic battery charger, and automatic transfer switch.
    a. Batteries: Sealed, valve-regulated, recombinant lead acid.
13. Instructions: Computer printout or typewritten instruction card mounted behind a plastic or glass cover in a stainless-steel or aluminum frame. Include interpretation and describe appropriate response for displays and signals. Briefly describe the functional operation of the system under normal, alarm, and trouble conditions.
14. PREACTION SYSTEM
    a. Initiate Presignal Alarm: This function shall cause an audible and visual alarm and indication to be provided at the FACP. Activation of an initiation device connected as part of a preaction system shall be annunciated at the FACP only, without activation of the general evacuation alarm.
15. Evacuation Alarm: Multiple smoke zones; allow for evacuation notification of any individual zone or combination of zones, in addition to general evacuation of entire premises.
16. Voice Notification: Provide emergency voice/alarm communications with multichannel capability; digital.
17. General Evacuation Zones: Each smoke zone is considered a general evacuation zone unless otherwise indicated, with alarm notification in all zones on the same floor, on the floor above, and the floor below.
18. Staff Response Zones: For each smoke zone where occupants are not ambulatory, program notification zone as directed to notify staff in areas outside the normal notification zone and in other buildings, for response to assist in evacuation.
19. Program notification zones and voice messages as directed by Owner.
20. Hearing Impaired Occupants: Provide visible notification devices in all public areas and in dwelling units.
21. Fire Command Center: Location indicated on drawings.
22. Master Control Unit (Panel): New, located as shown on plans.
23. Two-Way Telephone: Provide two-way telephone service for the use of the fire service and others; provide jacks and two portable handsets.
24. Combined Systems: Do not combine fire alarm system with other non-fire systems.

C. Supervising Stations and Fire Department Connections:
    1. Public Fire Department Notification: By on-premises supervising station.
    2. On-Premises Supervising Station: Existing proprietary station operated by Owner, located at _____.
    3. On-Premises Supervising Station: None.
    4. Remote Supervising Station: UL-listed central station under contract to facility.

5. Means of Transmission to Remote Supervising Station: Digital alarm communicator transmitter (DACT), 2 telephone lines.
6. Auxiliary Connection Type: Local energy.

D. Circuits:
1. Initiating Device Circuits (IDC): Class B, Style A.
2. Signaling Line Circuits (SLC) Within Single Building: Class B, Style 0.5.
3. Notification Appliance Circuits (NAC): Class B, Style W.

E. Spare Capacity:
1. Initiating Device Circuits: Minimum 25 percent spare capacity.
2. Notification Appliance Circuits: Minimum 25 percent spare capacity.
3. Speaker Amplifiers: Minimum 25 percent spare capacity.
4. Fire Alarm Control Units: Capable of handling all circuits utilized to capacity without requiring additional components other than plug-in control modules.

F. Power Sources:
1. Primary: Dedicated branch circuits of the facility power distribution system.
2. Secondary: Storage batteries.
3. Capacity: Sufficient to operate entire system for period specified by NFPA 72.
4. Each Computer System: Provide uninterruptible power supply (UPS).

2.4. EXISTING COMPONENTS

A. On-Premises Supervising Station: Include as part of this work all modifications necessary to existing supervising station to accommodate new fire alarm work.

B. Clearly label components that are "Not In Service."

C. Remove unused existing components and materials from site and dispose of properly.

2.5. FIRE SAFETY SYSTEMS INTERFACES

A. Supervision: Provide supervisory signals in accordance with NFPA 72 for the following:
1. Sprinkler water control valves.
2. Dry-pipe sprinkler system pressure.
3. Dry-pipe sprinkler valve room low temperature.

B. Alarm: Provide alarm initiation in accordance with NFPA 72 for the following:
1. Sprinkler water flow.
2. Duct smoke detectors.

C. HVAC:
1. Duct Smoke Detectors: Close dampers indicated; shut down air handlers indicated.

D. Doors:
1. Smoke Barrier Door Magnetic Holders: Release upon activation of smoke detectors in smoke zone on either side of door, upon alarm from manual pull station on same floor, and upon sprinkler activation on same floor. Refer to Section 08 7100.
2. Electromagnetic Door Locks on Egress Doors: Unlock upon activation of any alarm initiating device or suppression system in smoke zone that doors serve as egress from. Refer to Section 08 7100.

2.6. COMPONENTS

A. General:

1. Provide flush mounted units where installed in finish areas; in unfinished areas, surface mounted unit are acceptable.
2. Provide legible, permanent labels for each control device, using identification used in operation and maintenance data.

B. Initiating Devices:
1. Manual Pull Stations:Provide 1 extra.
2. Key Operated Pull Stations: Provide 1 extra.
3. Duct Smoke Detectors: Provide 1 extra.
4. Heat Detectors: Provide 1 extra.
5. Addressable Interface Devices: [Provide 1 extra.].

C. Notification Appliances:
1. Horns: Provide 1 extra.
   a. Provide 1 extra.
2. Speakers: Provide 1 extra.
3. Strobes: Provide 1 extra.

D. Circuit Conductors: Copper or optical fiber; provide 200 feet extra; color code and label.

E. Surge Protection: In accordance with IEEE C62.41.2 category B combination waveform and NFPA 70; except for optical fiber conductors.
1. Equipment Connected to Alternating Current Circuits: Maximum let through voltage of 350 V(ac), line-to-neutral, and 350 V(ac), line-to-line; do not use fuses.
2. Initiating Device Circuits, Notification Appliance Circuits, and Communications Circuits: Provide surge protection at each point where circuit exits or enters a building; rated to protect applicable equipment; for 24 V(dc) maximum dc clamping voltage of 36 V(dc), line-to-ground, and 72 V(dc), line-to-line.
3. Signaling Line Circuits: Provide surge protection at each point where circuit exits or enters a building, rated to protect applicable equipment.

F. Locks and Keys: Deliver keys to Owner.
1. Provide the same standard lock and key for each key operated switch and lockable panel and cabinet; provide 5 keys of each type

G. Instruction Charts: Printed instruction chart for operators, showing steps to be taken when a signal is received (normal, alarm, supervisory, and trouble); easily readable from normal operator's station.
1. Frame: Stainless steel or aluminum with polycarbonate or glass cover.
2. Provide one for each control unit where operations are to be performed.
3. Obtain approval of Owner prior to mounting; mount in location acceptable to Owner.
4. Provide extra copy with operation and maintenance data submittal.

H. Storage Cabinet for Spare Parts and Tools: Steel with baked enamel finish, size appropriate to quantity of parts and tools.
1. Padlock eye and hasp for lock furnished by Owner.
2. Locate as directed by Owner.

PART 3 EXECUTION

3.1. INSTALLATION

A. Install in accordance with applicable codes, NFPA 72, NFPA 70, the International Fire Code, and Contract Documents.

B. Install all cabling in conduit.

C. Conceal all wiring, conduit, boxes, and supports where installed in finished areas.

D. Obtain Owner's approval of locations of devices, before installation.

E. Install instruction cards and labels.

3.2. INSPECTION AND TESTING FOR COMPLETION

A. Notify Owner 7 days prior to beginning completion inspections and tests.

B. Notify authorities having jurisdiction and comply with their requirements for scheduling inspections and tests and for observation by their personnel.

C. Provide the services of the installer's supervisor or person with equivalent qualifications to supervise inspection and testing, correction, and adjustments.

D. Prepare for testing by ensuring that all work is complete and correct; perform preliminary tests as required.

E. Provide all tools, software, and supplies required to accomplish inspection and testing.

F. Perform inspection and testing in accordance with NFPA 72 and requirements of local authorities; document each inspection and test.

G. Correct defective work, adjust for proper operation, and retest until entire system complies with Contract Documents.

3.3. OWNER PERSONNEL INSTRUCTION

A. Provide the following instruction to designated Owner personnel:
   1. Hands-On Instruction: On-site, using operational system.
   2. Classroom Instruction: Owner furnished classroom, on-site or at other local facility.

B. Administrative: One-hour session(s) covering issues necessary for non-technical administrative staff; classroom:
   1. Initial Training: 1 session pre-closeout.
   2. Refresher Training: 1 session post-occupancy.

C. Basic Operation: One-hour sessions for attendant personnel, security officers, and engineering staff; combination of classroom and hands-on:
   1. Initial Training: 1 session pre-closeout.
   2. Refresher Training: 1 session post-occupancy.

D. Furnish the services of instructors and teaching aids; have copies of operation and maintenance data available during instruction.

3.4. CLOSEOUT

A. Closeout Demonstration: Demonstrate proper operation of all functions to Owner.
   1. Be prepared to conduct any of the required tests.
   2. Have at least one copy of operation and maintenance data, preliminary copy of project record drawings, input/output matrix, and operator instruction chart(s) available during demonstration.
   3. Have authorized technical representative of control unit manufacturer present during demonstration.
   4. Demonstration may be combined with inspection and testing required by authority having jurisdiction; notify authority having jurisdiction in time to schedule demonstration.
   5. Repeat demonstration until successful.

B. Occupancy of the project will not occur prior to Substantial Completion.

C. Substantial Completion of the project cannot be achieved until inspection and testing is successful and:
   1. Specified diagnostic period without malfunction has been completed.
   2. Approved operating and maintenance data has been delivered.
   3. Spare parts, extra materials, and tools have been delivered.
   4. All aspects of operation have been demonstrated to Owner.
   5. Final acceptance of the fire alarm system has been given by authorities having jurisdiction.
   6. Occupancy permit has been granted.
   7. Specified pre-closeout instruction is complete.

D. Perform post-occupancy instruction within 3 months after Substantial Completion.

3.5. MAINTENANCE

A. See Section 01 7000 - Execution and Closeout Requirements, for additional requirements relating to maintenance service.

B. Provide to Owner, at no extra cost, a written maintenance contract for entire manufacturer's warranty period, to include the work described below.

C. Perform routine inspection, testing, and preventive maintenance required by NFPA 72, including:
   1. Maintenance of fire safety interface and supervisory devices connected to fire alarm system.
   2. Repairs required, unless due to improper use, accidents, or negligence beyond the control of the maintenance contractor.
   3. Record keeping required by NFPA 72 and authorities having jurisdiction.

D. Provide trouble call-back service upon notification by Owner:
   1. Provide on-site response within 2 hours of notification.
   2. Include allowance for call-back service during normal working hours at no extra cost to Owner.
   3. Owner will pay for call-back service outside of normal working hours on an hourly basis, based on actual time spent at site and not including travel time; include hourly rate and definition of normal working hours in maintenance contract.

E. Provide a complete description of preventive maintenance, systematic examination, adjustment, cleaning, inspection, and testing, with a detailed schedule.

F. Maintain a log at each fire alarm control unit, listing the date and time of each inspection and call-back visit, the condition of the system, nature of the trouble, correction performed, and parts replaced. Submit duplicate of each log entry to Owner's representative upon completion of site visit.

G. Comply with Owner's requirements for access to facility and security.

END OF SECTION