



ADDENDUM NO. 02
To Drawings and Specifications dated 02/07/24

Date: FEBRUARY 7, 2024

PROJECT: **Warner Middle School HVAC Upgrade & Modernization**
A#04-121954
Westminster School District

PROJECT LOCATION: 14171 Newland Street
Westminster, CA 92683

PROJECT ARCHITECT PBK Architects
2400 E. Katella Ave., Ste 950
Anaheim, CA 92806

This Addendum forms a part of the Contract Documents. It modifies the original Project Manual and Drawings, as well as any Addendum previously issued, as noted below. Bidders are required to acknowledge receipt of this Addendum in the space provided in the proposal form. Failure to acknowledge receipt of each addendum may subject bidder to disqualification.

GENERAL:

- Item No. 1-01:** PQ Bids corrected their list that was missing previously approved firms from the posted PDF. The list on the website is current and correct per the cutoff date.
- Item No. 1-02:** The website inadvertently posted three files listed as Addendum #1. These files are not part of Addendum #1 and all items included in the files are incorporated into Addendum #2. Addendum #1 included the three-page file that postponed the prequal date and provided the sign-in sheet from the mandatory job walk. Disregard the three files listed below.
1. Eastwood Addendum No. 01 to Drawings
 2. Sequoia Addendum No. 01 to Drawings
 3. Warner Addendum No. 01 to Drawings
- Item No. 1-03:** Project duration revised from 291 days to 365 days.
- Item No. 1-04:** Pre-Bid RFI's. See attached log for pre-bid RFI questions and responses.
- Item No. 1-05:** Revised "BID FORM." See attached form for updated version.
- Item No. 1-06:** Revised "Warner MS Modernization – Phasing & Scheduling."



SPECIFICATIONS:

Item No. 1-07: 08 51 13 ALUMINUM OPERABLE WINDOWS

1. Added "08 51 13 – Aluminum Operable Windows."

Item No. 1-08: 08 80 00 GLAZING

1. Replaced the section entirely.

Item No. 1-09: 08 71 00 DOOR HARDWARE

1. Revise section 2.2 Materials to include the following:
 - K. Contractor to ensure closers are 180-degree closers, but that stops will protect the windows or walls adjacent to protect against damage.
 - L. Contractor to ensure the classroom doors that don't have panic hardware use a Corbin Russwin CL 3300 (IC Prep) lever handle that will be a keyed handle from the outside and passage/storeroom finish on the inside. So basically, lock on outside, passage on inside.
 - M. Panic Bars to be AX-PA-CD-98NL-OP.

Item No. 1-10: 09 65 20 RESILIENT BASES

1. Replaced the section entirely.

Item No. 1-11: 09 65 23 LUXURY VINYL TILE FLOORING

1. Added "09 65 23 – Luxury Vinyl Tile Flooring."

Item No. 1-12: 09 68 00 CARPETING

1. Replaced the section entirely.

DRAWINGS:

Item No. 1-13: AD1.01 DEMO FLOOR PLANS BLDG C7, C8, SL & ADMIN.

1. Detail "30 – Demo Floor Plan – Administration Building"
 - a. Revised Demo Floor Plan – Administration Building.



Item No. 1-14: AD2.02 DEMO RCP BLDG C1, C3, C5, IA1 & IA2

1. Detail "25 – Demo RCP Building IA1"
 - a. Revised Demo RCP.

Item No. 1-15: A5.03 ENLARGED RR PLANS & INTERIOR ELEVATIONS

1. Detail "18D – Classroom IA1-9 – West Elevation"
 - a. Added note "Removed and reinstalled (E) power & (E) data after tackboard reinstallation. Typ."

Item No. 1-16: A5.04 ENLARGED PLANS & INTERIOR ELEVATIONS

1. Detail "26B – Typical Classroom Interior Elevation 2"
 - a. Added note "Removed and reinstalled (E) power & (E) data after tackboard reinstallation. Typ."

Item No. 1-17: A5.05 ENLARGED PLANS & INTERIOR ELEVATIONS

1. Detail "6B – Interior Elevation – IA2-1 – East"
 - a. Added note "Removed and reinstalled (E) power & (E) data after tackboard reinstallation. Typ."
2. Detail "18D – Interior Elevation – IA2-2 – West"
 - a. Added note "Removed and reinstalled (E) power & (E) data after tackboard reinstallation. Typ."

Item No. 1-18: A8.01 DOORS, WINDOW FRAMING DETAILS

1. Detail "6 – Operable Window @ Vert. Mullion"
 - a. Added "Operable Window @ Vert. Mullion"
2. Detail "12 – Operable Window Horiz Mullion"
 - a. Added "Operable Window Horiz Mullion."
3. Detail "18 – Operable Window Sill"
 - a. Added "Operable Window Sill."

Item No. 1-19: A9.01 DOORS SCHEDULE

1. Detail – "Door Type Legend"
 - a. Revised "Type D (Alum)."
 - b. Revised "Note."



2. Detail – “Door Schedule”
 - a. Revised “Door Schedule.”

Item No. 1-20: A9.02 WINDOW SCHEDULE

1. Detail – “General Window Framing Notes”
 - a. Revised “General Window Framing Notes.”
2. Detail “30 – Window Types”
 - a. Revised all window type to "G1."
 - b. Added “Operable Window” to Type H, J, K & K1.
 - c. Added detail call out – 6/A8.01, 12/A8.01 & 18/A8.01.

Item No. 1-21: A10.01 FINISH PLANS & SCHEDULE – BLDGS C1-C8

1. Detail – “Material Abbreviations”
 - a. Added “LVT – Luxury Vinyl Tile”
2. Detail – “Material Finish Abbreviations”
 - a. Added “LVT1 – Luxury Vinyl Tile 1, See Specifications”
3. Detail – “Finish Floor Materials Legend”
 - a. Added “LVT-1, Luxury Vinyl Tile”
4. Detail – “Finish Schedule – BLDG C1-C8”
 - a. Revised finish schedule.
5. Detail “1 – Floor Plan – BUILDING C8”
 - a. Added “LVT” to classroom C8-3, C8-4 & C8-5.
6. Detail “2 – Floor Plan – BUILDING C6”
 - a. Added “LVT” to classroom C6-3, C6-4 & C6-5.
7. Detail “3 – Floor Plan – BUILDING C4”
 - a. Added “LVT” to classroom C4-3, C4-4 & C4-5.
8. Detail “4 – Floor Plan – BUILDING C2”
 - a. Added “LVT” to classroom C2-3, C2-4 & C2-5.
9. Detail “14 – Floor Plan – BUILDING C7”
 - a. Added “LVT” to classroom C7-3, C7-4 & C7-5.
10. Detail “17 – Floor Plan – BUILDING C5”
 - a. Added “LVT” to classroom C5-3, C5-4 & C5-5.
11. Detail “23 – Floor Plan – BUILDING C3”
 - a. Added “LVT” to classroom C3-3, C3-4 & C3-5.



12. Detail "29 – Floor Plan – BUILDING C1"
 - a. Added "LVT" to classroom C1-3, C1-4 & C1-5.

Item No. 1-22: A10.02 FINISH PLANS & SCHEDULE IA1, IA2, SL & ADMIN

1. Detail – "Material Abbreviations"
 - a. Added "LVT – Luxury Vinyl Tile"
2. Detail – "Material Finish Abbreviations"
 - a. Added "LVT1 – Luxury Vinyl Tile 1, See Specifications"
3. Detail – "Finish Floor Materials Legend"
 - a. Revised "VCT-1" to "LVT-1, Luxury Vinyl Tile"
4. Detail – "Finish Schedule – BLDGS Admin, SL, IA1 & IA2"
 - a. Revised schedule.
5. Detail "6 – Floor Plan – BUILDING IA-1"
 - a. Added "LVT" to classroom IA1-1 & IA1-9.
6. Detail "18 – Floor Plan – BUILDING IA-2"
 - a. Added "LVT" to classroom IA2-1, IA2-2 & IA2-8.

Item No. 1-23: M2.01 MECHANICAL BUILDING FLOOR PLANS C7, C8, S-L & ADMIN.

1. Rooftop Heat Pump Schedule
 - a. The electrical data for the rooftop units was updated to match the updated 2024 rooftop units.
2. Detail 2 – Floor Plan – Building S-L
 - a. Deleted outside wall exhaust louver.
 - b. The exhaust fan EF-SL-1 is turned 180 degrees.
 - c. Added 10x10 duct from the exhaust fan is added up to new penthouse louver.
 - d. On the inlet side of the exhaust fan a duct to an exhaust grille is added.
 - e. Key notes were added.

Item No. 1-24: M4.01 MECHANICAL BUILDING ROOF PLANS C7, C8, S-L & ADMIN.

1. Detail 2 – Bldg S-L - Roof
 - a. The penthouse louver type M air outlet is added to the roof.
 - b. Key notes were added.



Item No. 1-25:

M5.01 MECHANICAL SCHEDULES

1. Rooftop Heat Pump Schedule
 - a. The electrical data for the rooftop units was updated to match the updated 2024 rooftop units and updated code requirements.
 - b. Add Vibration isolators to rooftop unit schedules.

Item No. 1-26:

M5.02 MECHANICAL SCHEDULES

1. Air distribution schedule.
 - a. A penthouse louver was added to the air distribution schedule as outlet Type M.
2. Rooftop Heat Pump Schedule
 - a. The electrical data for the rooftop units was updated to match the updated 2024 rooftop units and updated code requirements.
 - b. Add Vibration isolators to rooftop unit schedules.

Item No. 1-27:

M6.01 MECHANICAL DETAILS

1. Detail 4 – Penthouse Louver
 - a. Penthouse Louver detail was added.

Item No. 1-28:

E2.01 ELECTRICAL BUILDING FLOOR PLANS C7, C8, S-L & ADMIN

1. Detail 3 – Admin. Bldg.
 - a. Added power for Electric Water Heaters 'EWH-1'
 - b. Added keynote # 9 for water heaters.
2. Detail 2 – Bldg. S-L
 - a. Added power for Electric Water Heater 'EWH-1'
 - b. Added keynote # 9 for water heaters.

Item No. 1-29:

E4.01 ELECTRICAL BUILDING ROOF PLANS C7, C8, S-L & ADMIN

1. Detail "1 – Roof Plan – BLDG C8"
 - a. Revised "Roof Plan – Bldg. C8."
2. Detail "2 – Roof Plan – BLDG S-L"
 - a. Revised "Roof Plan – BLDG S-L."
3. Detail "3 – Roof Plan – BLDG C7"
 - a. Revised "Roof Plan – BLDG C7."



Item No. 1-30: E4.02 ELECTRICAL BUILDING ROOF PLANS C1, C3, C5, IA-1 & IA-2

1. Details 1-5
 - a. Added 120V circuits for convenience outlets in rooftop units.

Item No. 1-31: E4.03 ELECTRICAL BUILDING ROOF PLANS C2, C4 & C6

1. Details 1-3
 - a. Added 120V circuits for convenience outlets in rooftop units.

Item No. 1-32: E6.01 ELECTRICAL SCHEDULES

1. Revised panel schedules:
 - a. MC1
 - b. MC2
 - c. MC3
 - d. MC4
 - e. MC5
 - f. MC6
 - g. MC7
 - h. MC8

Item No. 1-33: E6.02 ELECTRICAL SCHEDULES

1. Revised panel schedules:
 - a. MIA1
 - b. MIA2
 - c. MLA
 - d. MSL

Item No. 1-34: P5.01 PLUMBING FIXTURE SCHEDULE

1. **WC-1**
 - a. Revised Model Number Updated to Floor mounted.
2. **WC-2**
 - b. Revised Model Number Updated to Floor mounted.

END OF ADDENDUM 01

RFI Questions and Responses

Question: Please provide Engineers Estimates for the project?

Answer: Sequoia \$6.4 Million, Warner \$8.8 Million, Eastwood \$6.4 Million.

Question: Will a qualified Superintendent be required a each site full time?

Answer: The staffing minimum requirements are a full-time onsite Project Superintendent and Project Engineer. In addition, a dedicated Project Manager is required as specified in the Front-end document. Any work being performed on school sites will require on-site supervision from the Contractor. This supervision could be any of the persons noted above or an additional staff by the Contractor. All Contractor staffing will be required to be badged by the Distrcit including a background check.

Question: Addendum #1 states that is issuing new specs for LVT and Carpeting, as well as revised plan sheet A10.01. Will these be issued in a new addendum?

Answer: See addendum 2 for spec section 09 65 23 Luxury Vinyl Tile and spec section 09 68 00 Carpeting.

Question: The switchgear lean times far exceed the duration of the project schedule. The lead times are approx. 52-65 weeks after approved submittal. Will the project duration be extended to allow for the long lead times?

Answer: The intent is to have the work completed and not have the HVAC unit's operation. The Contractor to utilize the existing switchgear as a temporary equipment with the new load for HVAC not hooked up. As soon as the material is procured the Contractor is to make the switchover and energize the HVAC and perform startup.

Question: Please reference Addendum 1 for all three schools. At specific window types for each school, there is a directive to "provide operable window". However, it is not clear what type of operable window is desired (e.g. hopper, awning, etc.) or which windows are to be operable. Additionally, window types W9 and W10 at Eastwood are rake shaped along the top. Generally speaking, window manufacturers will not build windows out of square. PROPOSED SOLUTION: Please provide updated window schedules for all three schools and eliminate operable windows at openings that are not square. Each revised schedule should include the following;

- Indicate which windows are to be operable
- Type of operable window (hopper, awning, etc.)

Answer: See Addendum 2 for revised drawings and specifications for operable windows.

Question: Please reference Sheet A9.01 of the Warner Middle School plans. 48 doors in the schedule are described as type "A" which is identified as being aluminum and shows no glass. This type of door would not be classified as a storefront door, rather a flush panel door. Since there is nothing in the spec that describes a flush panel door, it is believed this is probably a mistake.

PROPOSED SOLUTION: Please confirm that aluminum flush panel doors are not required. Please indicate what types of doors are to be used at type "A" locations and whether or not they will require any glazing.

Answer: See Addendum 2 for revised door schedule.

ADDENDUM #2

BID FORM

FOR

HVAC UPGRADE & MODERNIZATION PROJECT

AT

EASTWOOD ELEMENTRY SCHOOL

**13521 Edwards St,
Westminster, CA 92683**

SEQUOIA ELEMENTRY SCHOOL

**7200 Trask Ave'
Westminster, CA 92683**

WARNER ELEMENTRY SCHOOL

**14142 Hoover St.
Westminster, CA 92683**

Bid No. 2023/24-03

WESTMINSTER SCHOOL DISTRICT

CONTRACTOR
NAME:

ADDRESS:

TELEPHONE:

() _____

FAX:

() _____

EMAIL

Eastwood, Sequoia, & Warner Elementary School HVAC Upgrade & Modernization

Bid Form

ADDENDUM #2

TO: Westminster School District, acting by and through its Governing Board, herein called "District".

1. Pursuant to and in compliance with your Notice Inviting Bids and other documents relating thereto, the undersigned bidder, having familiarized himself with the terms of the Contract, the local conditions affecting the performance of the Contract, the cost of the work at the place where the work is to be done, with the Drawings and Specifications, and other Contract Documents, hereby proposes and agrees to perform within the time stipulated, the Contract, including all of its component parts, and everything required to be performed, including its acceptance by the District, and to provide and furnish any and all labor, materials, tools, expendable equipment, and utility and transportation services necessary to perform the Contract and complete all of the Work in a workmanlike manner required in connection with the construction of:

Eastwood, Sequoia, & Warner Elementary School HVAC Upgrade & Modernization Bid # 2023/24-03

in the District described above, all in strict conformance with the drawings and other Contract Documents for amounts set forth herein.

2. BIDDER ACKNOWLEDGES THE FOLLOWING ADDENDUM:

Number	Number	Number	Number	Number	Number	Number	Number
_____	_____	_____	_____	_____	_____	_____	_____

Acknowledge the inclusion of all addenda issued prior to bid in the blanks provided above. Your failure to do so may render your bid non-responsive.

3. The total Contract will be awarded to the Lowest Responsive and Responsible Bidder based on the grand total of all three schools Eastwood, Sequoia, & Warner ES. The District, at its discretion may deduct Sequoia school from the project. The district requires pricing separately for Eastwood, Sequoia, & Warner ES for budgetary reasons.

TOTAL CASH PURCHASE PRICE IN WORDS & NUMBERS:

Warner ES _____ DOLLARS
(\$ _____)

Sequoia ES _____ DOLLARS
(\$ _____)

Eastwood ES _____ DOLLARS
(\$ _____)

Total contract cost for Eastwood, Sequoia, and Warner ES
_____ DOLLARS
(\$ _____)

Eastwood, Sequoia, & Warner Elementary School HVAC Upgrade & Modernization

Bid Form

ADDENDUM #2

Alternate Deduct for Sequoia ES: _____ DOLLARS

(\$ _____)

4. TIME FOR COMPLETION: The District may give a notice to proceed within ninety (90) days of the award of the bid by the District. Once the Contractor has received the notice to proceed, the Contractor shall complete the work in the time specified in the Agreement. By submitting this bid, Contractor has thoroughly studied this Project and agrees that the Contract Time for this Project is adequate for the timely and proper completion of the Project. Further, Contractor has included in the analysis of the time required for this Project, Rain Days, Governmental Delays, and the requisite time to complete Punch List.

In the event that the District desires to postpone giving the notice to proceed beyond this ninety (90) day period, it is expressly understood that with reasonable notice to the Contractor, giving the notice to proceed may be postponed by the District. It is further expressly understood by the Contractor, that the Contractor shall not be entitled to any claim of additional compensation as a result of the postponement of giving the notice to proceed.

If the Contractor believes that a postponement will cause a hardship to it, the Contractor may terminate the contract with written notice to the District within ten (10) days after receipt by the Contractor of the District's notice of postponement. Should the Contractor terminate the Contract as a result of a notice of postponement, the District shall have the authority to award the Contract to the next lowest responsible bidder, if applicable.

It is understood that the District reserves the right to reject any or all bids and/or waive any irregularities or informalities in this bid or in the bid process. The Contractor understands that it may not withdraw this bid for a period of ninety (90) days after the date set for the opening of bids.

5. Attached is bid security in the amount of not less than ten percent (10%) of the bid:

Bid bond (10% of the Bid), certified check, or cashier's check (circle one)

6. The required List of Designated Subcontractors is attached hereto.

7. The required Non-Collusion Declaration is attached hereto.

8. The Substitution Request Form, if applicable, is attached hereto.

9. It is understood and agreed that if written notice of the acceptance of this bid is mailed, telegraphed, or delivered to the undersigned after the opening of the bid, and within the time this bid is required to remain open, or at any time thereafter before this bid is withdrawn, the undersigned will execute and deliver to the District a Contract in the form attached hereto in accordance with the bid as accepted, and that he or she will also furnish and deliver to the District the Performance Bond and Payment Bond, all within five (5) calendar days after award of Contract, and that the work under the Contract shall be commenced by the undersigned bidder, if awarded the Contract, by the start date provided in the District's Notice to Proceed, and shall be completed by the Contractor in the time specified in the Contract Documents.

ADDENDUM #2

10. The names of all persons interested in the foregoing proposal as principals are as follows:

(IMPORTANT NOTICE: If bidder or other interested person is a corporation, state the legal name of such corporation, as well as the names of the president, secretary, treasurer, and manager thereof; if a co-partnership, state the true names of the firm, as well as the names of all individual co-partners comprising the firm; if bidder or other interested person is an individual, state the first and last names in full.)

11. PROTEST PROCEDURES. If there is a bid protest, the grounds shall be submitted as set forth in the Instructions to Bidders.

12. The undersigned bidder shall be licensed and shall provide the following California Contractor's license information:

License Number: _____
License Expiration Date: _____
Name on License: _____
Class of License: _____
DIR Registration Number: _____

If the bidder is a joint venture, each member of the joint venture must include the above information.

13. Time is of the essence regarding this Contract, therefore, in the event the bidder to whom the Contract is awarded fails or refuses to post the required bonds and return executed copies of the Agreement form within five (5) calendar days from the date of receiving the Notice of Award, the District may declare the bidder's bid deposit or bond forfeited as damages.

14. The bidder declares that he/she has carefully examined the location of the proposed Project, that he/she has examined the Contract Documents, including the Plans, General Conditions, Supplemental Conditions, Addenda, and Specifications, all others documents and requirements that are attached to and/or contained in the Project Manual, all other documents issued to bidders and read the accompanying instructions to bidders, and hereby proposes and agrees, if this proposal is accepted, to furnish all materials and do all work required to complete the said work in accordance with the Contract Documents, in the time and manner therein prescribed for the unit cost and lump sum amounts set forth in this Bid Form.

ADDENDUM #2

15. DEBARMENT. In addition to seeking remedies for False Claims under Government Code section 12650 et seq. and Penal Code section 72, the District may debar a Contractor pursuant to Article 15 of the General Conditions if the Board, or the Board may designate a hearing officer who, in his or her discretion, finds the Contractor has done any of the following:

- a. Intentionally or with reckless disregard, violated any term of a contract with the District;
- b. Committed an act or omission which reflects on the Contractor's quality, fitness or capacity to perform work for the District;
- c. Committed an act or offense which indicates a lack of business integrity or business honesty; or
- d. Made or submitted a false claim against the District or any other public entity. (See Government Code section 12650, et seq., and Penal Code section 72)

16. DESIGNATION OF SUBCONTRACTORS. In compliance with the Subletting and Subcontracting Fair Practices Act (California Public Contract Code section 4100 et seq.) and any amendments thereof, each bidder shall list subcontractors on the District's form Subcontractor list. This subcontractor list shall be submitted with the bid and is a required form

I agree to receive service of notices at the e-mail address listed below.

I the below-indicated bidder, declare under penalty of perjury that the information provided and representations made in this bid are true and correct.

Proper Name of Company

Name of Bidder Representative

Street Address

City, State, and Zip

()
Phone Number

()
Fax Number

E-Mail

Eastwood, Sequoia, & Warner Elementary School HVAC Upgrade & Modernization

Bid Form

Westminster School District

Page 5

ADDENDUM #2

By: _____ Date: _____
Signature of Bidder Representative

NOTE: If bidder is a corporation, the legal name of the corporation shall be set forth above together with the signature of authorized officers or agents and the document shall bear the corporate seal; if bidder is a partnership, the true name of the firm shall be set forth above, together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership; and if bidder is an individual, his signature shall be placed above.

All signatures must be made in permanent blue ink

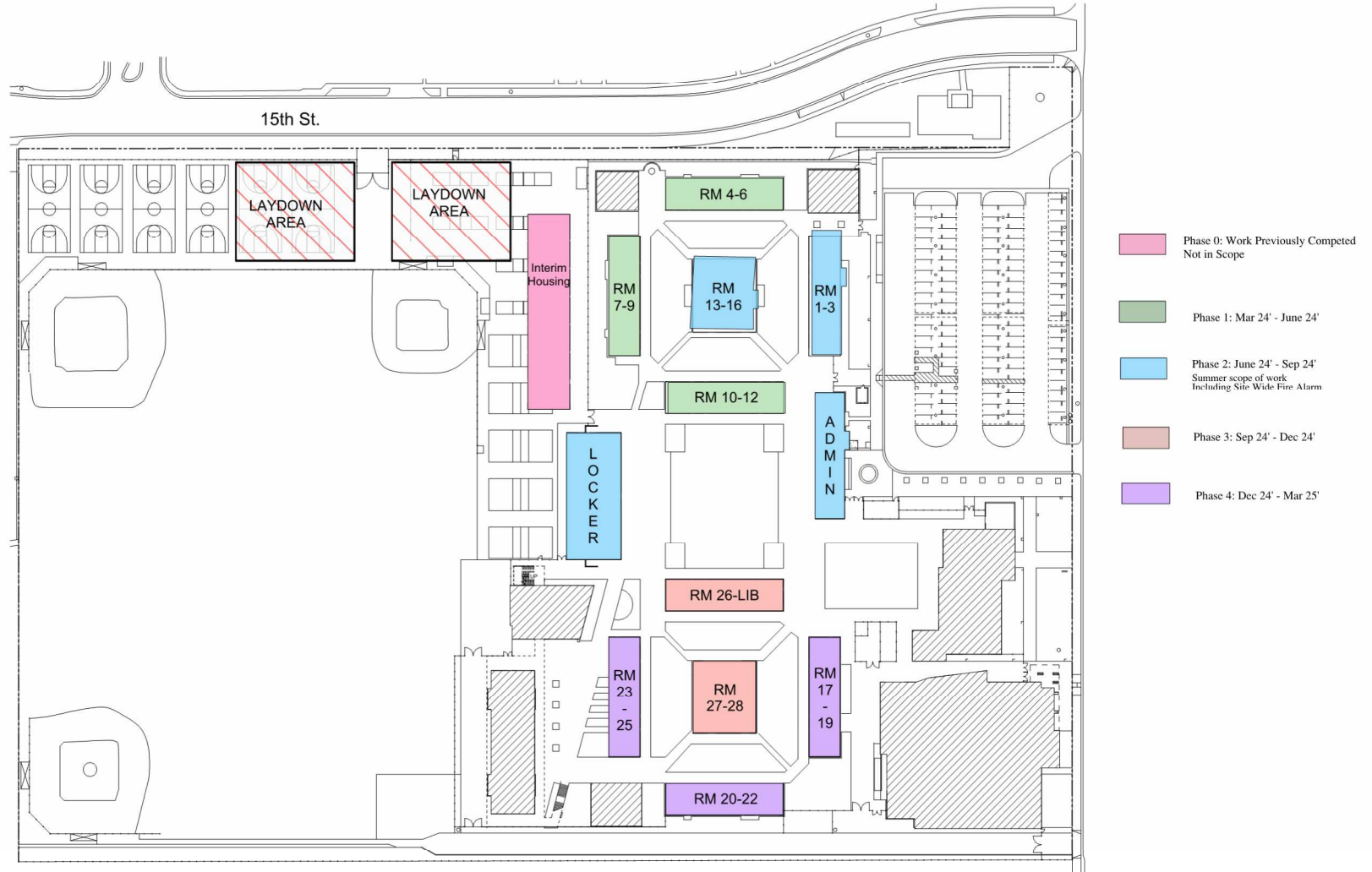


WARNER MIDDLE SCHOOL

HVAC Modernization

MASTER PLAN

- Installation of air conditioning in every classroom (except in MPR and existing relocatable)
- New roofing on all the buildings throughout the campus
- Fire Alarm upgrades on all buildings
- Parking upgrades to meet new code requirements
- New paint interior and exterior paint on all the buildings throughout the campus
- New high efficiency windows
- New LED lighting in all the classrooms and offices



SECTION 08 51 13

ALUMINUM OPERABLE WINDOWS

PART 1 GENERAL

1.01 Summary

- A. Section includes:
 - 1. Aluminum Windows
 - a. Arcadia Inc., T200 Series (thermal) Heavy Commercial Hopper Windows
- B. Related Sections:

1.02 References

- A. American Architectural Manufacturers Association (AAMA)
- B. American Society for Testing and Materials (ASTM)
- C. Aluminum Association (AA)
- D. National Wood Window & Door Association (NWWDA)
- E. California Association of Window Manufacturers (CAWM)

1.03 System Description

- A. General: In addition to requirements shown or specified, comply with:
 - 1. Applicable provisions of AAMA Windows and Sliding Glass Doors Manual for design, materials, fabrication and installation of component parts.
- B. Design Requirements: Arcadia T200 Series (thermal) Heavy Commercial Fixed, Casement, Awning and Hopper Windows 2-inch depth. Hinged compression sealed aluminum windows. Suitable for outside or inside glazing.
- C. Performance Requirements: Each assembly shall be tested by a recognized testing laboratory or agency in accordance with specified test methods.
 - 1. Conformance to F-AW55, C-AW80, AP-AW80 specifications in AAMA/NWWDA 101/I.S. 2/A440-8.
 - a. Air Infiltration: Accordance with ASTM E 283 at a static air pressure difference of 6.24 psf. Air infiltration shall not exceed .30 cfm per square foot.
 - b. Water Resistance: Accordance with ASTM E 331/ASTM E 547 at a static air pressure difference of 12 psf. No water leakage.
 - c. Uniform Load Structural: Aluminum window systems comply with AAMA/WDMA/CSA 101/I.S.2/A440-08, Voluntary specifications for aluminum windows. Guidelines for specified AW rated product.
 - d. Component testing: Accordance with procedures described in AAMA/NWWDA 101/I.S. 2/A440-08.
 - e. Forced Entry Resistance: All windows shall conform to CAWM 301-90.
 - f. Condensation Resistance Test: (CRF) when tested in accordance with AAMA 1503.1-88, the condensation resistance factor shall not be less than 51.
 - g. Thermal Transmittance Test: Accordance with AAMA 1503.1-88, (U-Value) not more than .59 BTU/hr/sf/°F.
 - h. Thermal Movements: Allow thermal movement resulting from the following maximum change (range) in ambient temperature.
 - (a) 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

1.04 Quality Assurance

- A. Single Source Responsibility:
 - 1. Obtain entrances, storefronts, ribbon walls, window walls, curtain walls, window systems, and finish through one source from a single manufacturer.
- B. Provide test reports from AAMA accredited laboratories certifying the performances as specified in 1.03.

1.05 Warranty

- A. Warranted against failure and/or deterioration of metals due to manufacturing process for a period of two (2) years.

Part 2 – Products

2.01 Manufacturers

- A. Acceptable Manufacturers:
 - 1. Arcadia, Inc., 2301 E Vernon, Vernon, CA. Telephone 323/269-7300, Fax 323/269-7390.
- B. Acceptable Products:
 - 1. Arcadia Inc., T200 Series (thermal)

2.02 Materials

- A. Extruded aluminum profiles 6063-T6 alloy and temper (ASTM B221 G.S. 10A-T6).
- B. All framing members .125 minimum wall thickness.
- C. At Casement, Awning, and Hopper windows provide heavy-duty four bar hinges shall be stainless steel only, with asymmetric end caps, and adjustable limit stops. Lock and latches cast white bronze, US-25D finish.
- D. Weatherstrip EPDM bulb type conforming to ASTM D2000 AA515 and shall be keyed into extruded grooves.
- E. Back glazing two-sided adhesive, 15 lbs./ft.³ density, polyethylene tape. Glazing wedges shall be EPDM or Santoprene.
- F. At operable windows provide screens made of extruded aluminum frame and screened with either 18 x 14 aluminum or fiber mesh.
- G. Thermal barrier material poured-in-place two part polyurethane.

2.03 Finish

- 2. An Architectural Class II or I color anodic coating conforming with AA-M12C22A34/AA-M12C22A44.
 - a. Anodized finish color shall be Colornodic _____. (AB1 Light Champagne, AB2 Champagne, AB3 Light Bronze, AB4 Medium Bronze, AB5 Standard Medium Bronze, AB6 Dark Bronze, AB7 Standard Dark Bronze, AB8 Black.)
- (or) 1. An Architectural Class II or I anodic coating conforming with AA-M12C22A31/AA-M12C22A41.
 - a. Anodize finish color shall be Colornodic _____ (#11 Clear)
- (or) 1. Fluorocarbon Coating: AAMA 2605.2.
 - a. Resin: 70% PVDF Kynar 500/Hylar 5000.
 - b. Substrate: cleaned and pretreated with chromium phosphate.
 - c. Primer: Manufacturer's standard resin base compatible coating. Dry film thickness.
 - (a) Extrusion: Minimum 0.20 mil.
 - d. Color Coat: 70% PVDF, dry film thickness.
 - (a) Extrusion: 0.20 mil.
 - e. Color: As selected by Architect.
 - f. Acceptable Coatings Manufacturers:
 - (a) PPG Industries, Inc.
 - (b) Valspar Corporation
 - (c) BASF

2.04 Fabrication

- A. Frame components mitered, reinforced extruded corner key, hydraulically crimped, and "cold welded."
- B. All ventilator extensions tubular, each corner mitered, reinforced extruded corner key, hydraulically crimped, and "cold welded."
- C. All corners weather sealed with an elastomeric sealant.

Part 3 – Execution

- 3.01 Examinations
 - A. Examine conditions and verify substrate conditions are acceptable for product installation.
- 3.02 Installation
 - A. Install in accordance with approved shop drawings and manufacturers installation instructions.
- 3.03 Field Quality Control
 - A. Contractor's responsibility to make all necessary final adjustments to attain normal operation of each window and its mechanical hardware.

END OF SECTION 08 51 13

SECTION 08 80 00

GLAZING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes: Requirements including but not limited to:
 - 1. Tempered glass.
 - 2. Reflective glass.
 - 3. Glazing sealants.
 - 4. Fire rated glass and sealants
 - 5. Accessories necessary for a complete installation.
- B. Related Sections:
 - 1. Section 08 11 13, Hollow Metal Doors and Frames.
 - 2. Section 08 14 16, Flush Wood Doors.
 - 3. Section 08 51 00, Aluminum Windows.
 - 4. Section 08 41 13, Aluminum-Framed Entrances and Storefronts.

1.2 DEFINITIONS

- A. Glass Thickness: Indicated by thickness designations in millimeters according to ASTM C 1036.
- B. Interspace: Space between lites of an insulating glass unit.

1.3 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design glass panels including comprehensive engineering analysis by a qualified professional engineer lawfully licensed in the State of California, using performance requirements and design criteria indicated.
- B. Installed Glazing: Design glazing systems to withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to the following: defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- C. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined according to the CBC and ASTM E 1300.
 - 1. Design Wind Pressures: Indicated on Drawings.
 - 2. Design Wind Pressures: Determine design wind pressures applicable to Project according to ASCE/SEI 7, based on heights above grade indicated on Drawings.
 - a. Wind Design Data: As indicated on Drawings.
 - b. Basic Wind Speed: 110 mph (49 m/s). Or as indicated on structural drawings.

- c. Importance Factor: 1.0.
 - 3. Exposure Category: C.
 - 4. Design Snow Loads: Indicated on Drawings.
 - 5. Thickness of Patterned Glass: Base design of patterned glass on thickness at thinnest part of the glass.
 - 6. Probability of Breakage for Sloped Glazing: For glass surfaces sloped more than 15 degrees from vertical, design glass for a probability of breakage not greater than 0.001.
 - 7. Maximum Lateral Deflection: For glass supported on all four edges, the center of glass deflection limit at design wind pressure shall be not more than 1/50 times the short side length or 1 inch (25 mm), whichever is less.
- D. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
- E. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
- 1. For monolithic glass lites, properties are based on units with lites 6 mm thick.
 - 2. For laminated glass lites, properties are based on products of construction indicated.
 - 3. For insulating glass units, properties are based on units of thickness indicated for overall unit and for each lite.
 - 4. U-Factors: Center of glazing values, according to NFRC 100 and based on LBL's WINDOW 5.2 computer program, expressed as Btu/sq. ft. x h x deg. F (W/sq. m x K).
 - 5. Solar Heat Gain Coefficient and Visible Transmittance: Center of glazing values, according to NFRC 200 and based on LBL's WINDOW 5.2 computer program.
 - 6. Visible Reflectance: Center-of-glazing values, according to NFRC 300.

1.4 SUBMITTALS

- A. Product Data: Technical data for each type of product including recommended installation and cleaning procedures.
- B. Glass Samples: For each type of glass required. Prepare samples from same material to be used for Work.
- C. Glazing Schedule: List glass types and thickness for each size opening and location. Use same designations indicated here-in and on Drawings.
- D. Delegated Design Submittal: For glass indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- E. Product Certificates: Submit glass product certificates required by Code.
 - 1. Glass Manufacturer Certificate: The glass manufacturer shall submit a letter certifying it has reviewed the glazing details proposed for the project, including the use of gaskets and sealants, and that each product furnished is recommended for the application shown and compliance with the Code.
- F. Thermal Stress and Wind Load Analyses: Submit the following from the glass manufacturer:
 - 1. Thermal stress analysis for each exterior glass unit type, each building elevation. The analysis shall clearly indicate the expected service temperature ranges and the effects of partial and full shading on the glass.
 - a. Attach to the thermal stress analysis a statement from the glass manufacturer that based upon this analysis that the resulting thermal stresses will not reduce the

- specified statistical probability of breakage.
 - 2. Wind load analysis for each glass unit type, each building elevation. The analysis shall indicate the statistical probability of breakage at the design wind pressure does not exceed the specified statistical probability of breakage.
- G. Product Test Reports: Submit test reports for insulating glass and glazing sealants, for tests performed by a qualified testing agency.
- 1. Glazing Sealants: Provide test reports based on testing current sealant formulations within previous 36 month period.
 - 2. Glazing Sealants: Preconstruction adhesion and compatibility test report.

1.5 QUALITY ASSURANCE

- A. Regulatory Requirements:
- 1. Building Code: Comply with applicable requirements for glazing in CBC 2019 California Building Code (CCR Title 24, Part 2, as adopted and amended by DSA).
 - 2. Energy Code: Comply with applicable requirements of glazing in the 2019 California Green Building Standards Code California Code of Regulations, Title 24, Part 11.
 - 3. Safety Glazing Labeling: Where safety glazing is indicated, permanently mark glazing with certification label of the SGCC or manufacturer. Label shall indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
 - a. As a minimum provide Category II materials complying with testing requirements in 16 CFR 1201 (Consumer Product Safety Commission *Safety Standard for Architectural Glazing Materials*, published in the Code of Federal Regulations) and ANSI Z97.1.
 - b. Permanently mark safety glass with certification label of Safety Glazing Certification Council.
 - 4. Insulating Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of IGCC.
 - 5. Glazing Publications: Comply with published recommendations of glass product organizations.
 - a. GANA: Glazing Manual.
 - b. IGMA: SIGMA TM-3000 Vertical Glazing Guidelines.
 - c. GANA: Laminated Glazing Reference Manual.
 - d. AAMA: AAMA GDSG-1 Glass Design for Sloped Glazing.
 - e. AAMA: TIR A7 Sloped Glazing Guidelines.
 - f. IGMA for Sloped Glazing: IGMA TB-3001 Guidelines for Sloped Glazing.
 - g. IGMA for Insulating Glass: SIGMA TM-3000 North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use.
 - 6. Fire Rated Door Assemblies: Assemblies complying with NFPA 80 listed and labeled by UL for fire ratings indicated, based on testing according to NFPA 252.
 - 7. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than the thickness indicated.
 - a. Minimum Glass Thickness for Exterior Lites: 1/4 inch (6 mm).
 - b. Thickness of Tinted Glass: Provide same thickness for each tint color indicated.
 - 8. Strength: Where annealed float glass is indicated, provide annealed float glass, heat strengthened float glass, or fully tempered float glass necessary to comply with performance requirements.
 - a. Where heat strengthened float glass is indicated, provide heat strengthened float glass or fully tempered float glass necessary to comply with performance requirements.
 - b. Where fully tempered float glass is indicated, provide fully tempered float glass.
- B. Installer Qualifications, Glazer: Experience entity having minimum 5 years documented experience and who employs glass installers certified under the National Glass

Association's Certified Glass Installer Program.

- C. Installer Qualifications, Decorative Film: Experience entity having minimum 5 years documented experience in the installation of glass films.
- D. Source Limitations for Glass and Glass Accessories: Obtain each type of glass and glass accessories from a single source.
- E. Sealant Testing Agency Qualifications: An independent testing agency qualified according to ASTM C 1021 to conduct the testing indicated.
- F. Pre-installation Conference: Conduct conference at site.
- G. Fire Protective Rated Glass: Each lite shall bear permanent, non-removable label of UL certifying it for use in tested and rated fire protective assemblies.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials according to manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by manufacturer.
- D. Exercise exceptional care to prevent edge damage to glass, and damage/deterioration to coating on glass.
- E. Comply with insulating glass manufacturer's written instructions for venting and sealing units to avoid hermetic seal ruptures due to altitude change.

1.7 FIELD CONDITIONS

- A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
 - 1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 degrees F (4.4 degrees C).
- B. Field Measurements: Verify actual dimensions of openings and construction contiguous with decorative glass by field measurements before fabrication.

1.8 COORDINATION

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

1.9 WARRANTY

- A. Coated Glass Products: Written warranty signed by manufacturer in which glass manufacturer agrees to replace coated glass units that deteriorate within specified warranty

period. Deterioration of coated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning coated glass contrary to manufacturer's written instructions. Defects include peeling, cracking, and other indications of deterioration in coating.

1. Warranty Period: Ten (10) years from date of Substantial Completion.
- B. Insulating Glass: Written warranty signed by manufacturer in which manufacturer agrees to replace insulating glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is the obstruction of vision by dust, moisture, or film on interior surfaces of glass.
1. Warranty Period: Ten (10) years from date of Substantial Completion.
- C. Glass Film: Written warranty signed by glass film manufacturer and installer in which manufacturer and installer agree to replace glass film that crack, peel, delaminate, discolor, change appearance, or failure to meet solar criteria within specified warranty period.
1. Warranty Period: Five (5) years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Glass:
 - a. Cardinal Glass Industries.
 - b. AGC Glass Company North America, Inc.
 - c. Cardinal Glass Industries.
 - d. Guardian Industries Corp.; SunGuard.
 - e. Oldcastle Building Envelope.
 - f. Pilkington North America.
 - g. Vitro Architectural Glass.
 - h. Vetrotech Saint-Gobain.
 2. Glass Film:
 - a. 3M Construction Markets Division. <http://www.3m.com>
 - b. Bekaert Specialty Films. <http://www.solargard.com>
 - c. Madico. <http://www.madico.com>
- B. Clear Annealed Float Glass: ASTM C 1036, Type I, Class 1 (clear), Quality-Q3.
- C. Ultra-clear Float Glass: ASTM C 1036, Type I, Class I (clear), Quality-Q3; and with visible light transmission of not less than 91 percent and solar heat gain coefficient of not less than 0.87.
- D. Tinted Annealed Float Glass: ASTM C 1036, Type I, Class 2 (tinted), Quality-Q3.
- E. Fully Tempered Float Glass: ASTM C 1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3.
1. Fabrication Process: By horizontal (roller hearth) process with roll wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
- F. Laminated Float Glass: ASTM 1036 / ASTM C1172 / ASTM C1376, Kind LT (fully tempered and bonded by an interlayer), Condition A (uncoated) unless otherwise indicated, Class 1

(clear) and/or Class 2 (tinted) as indicated, Quality-Q3.

1. Fabrication Process: By horizontal (roller hearth) process with roll wave distortion parallel to bottom edge of glass as installed unless otherwise indicated.
- G. Pyrolytic Coated, Low Maintenance Glass: Clear float glass with a coating on first surface having both photocatalytic and hydrophilic properties that act to loosen dirt and to cause water to sheet evenly over the glass instead of beading.
- H. Ceramic Coated Vision Glass: ASTM C 1048, Condition C, Type I, Class 1 (clear) or Class 2 (tinted) as indicated, Quality-Q3; and complying with Specification No. 95-1-31 in GANA *Engineering Standards Manual*.
- I. Reflective Coated Vision Glass: ASTM C 1376.
- J. Ceramic Coating Color: Selected by Architect from manufacturer's full range.
- K. Adhered Backing: Adhered scrim backing to ceramic coated surface; provide backed units identical to materials which, while possibly developing cracks and fissures, show no shear nor develop any openings large enough for the unobstructed penetration of 3 inch diameter sphere when tested by approved independent testing laboratory:
1. Mount test specimens consisting of 3 glass assemblies, 34" x 76" (plus zero or minus 3/16 inch), for testing as specified in ANSI Z-97.1.
 2. Expose specimens to 100 cycles of the following conditions:
 - a. 1 hour at 0 degrees F, ambient humidity.
 - b. 3 hours increase from 0 degrees F to 140 degrees F, 95 to 100 percent relative humidity.
 - c. 1 hour at 140 degrees F, 95 to 100 percent relative humidity.
 - d. 3 hours decrease from 140 degrees F to 0 degrees F, ambient humidity.
 3. Break glass by spring-loaded prick punch at midpoint of either vertical edge.
 4. After breaking glass, subject it to pressure of 4 lbs. per sq. ft. for 5 minutes to simulate wind load.
 5. Inorganic Opacifier: Provide polyethylene opacifier where no insulation and other backing material is applied directly to spandrel glass. Use polyester where direct attachment does occur.
 6. Fallout Resistance: Provide spandrel units identical to those passing fallout resistance test for spandrel glass specified in ASTM C 1048.

2.2 FIRE RATED GLAZING

- A. Manufacturer: FireLite® as manufactured by Nippon Electric Glass Company, Ltd., and distributed by Technical Glass Products, 8107 Bracken Place SE, Snoqualmie, WA 98065 phone (800.426.0279) fax (425.396.8300) e-mail sales@fireglass.com, web site <http://www.fireglass.com>
- B. Passes positive pressure test standards UL 10C.
- C. Labeling: Permanently label each piece of FireLite® with the FireLite® logo, UL logo and fire rating in sizes up to 3,325 sq. in., and with the FireLite® label only for sizes that exceed the listing (as approved by the local authority having jurisdiction).
- D. Fire Rating: Fire rating classified and labeled by UL for fire rating scheduled at opening locations on drawings, when tested in accordance with ASTM E2010-01, NFPA 257, UL 9 and UL 10B.

- E. Substitutions: No substitutions permitted.

2.3 INSULATING GLASS

- A. Insulating Glass Units: Factory assembled units consisting of sealed lites of glass separated by a dehydrated interspace, qualified according to ASTM E 2190.
- B. Sealing System: Dual seal, with polyisobutylene and silicone primary and secondary sealants.
1. Spacer: Aluminum with black, color anodic finish. Thermally broken aluminum.
 - a. Manufacturers: Subject to compliance with requirements, provide products by Technoform Glass Insulation NA, Inc.
 - b. Desiccant: Molecular sieve or silica gel, or a blend of both.
- C. Performance Properties:
1. Basis of Design Product: <Insert manufacturer's name; product name or designation>.
 2. Overall Unit Thickness: 1 inch (25 mm).
 3. Minimum Thickness of Each Glass Lite: 1/4 inch (6 mm).
 4. Outdoor Lite: Fully tempered float glass.
 5. Interspace Content: Air.
 6. Indoor Lite: Fully tempered float glass.
 7. Safety glazing required.

2.4 GLASS FILM

- A. Performance Requirements:
1. Scratch resistant coating that, after fully cured, facilitates cleaning without damaging or scratching film.
 2. Optical Distortion: When viewed from a distance of 10 feet at angles up to 45 degrees from either side of the glass, there is no discernable distortion.
 3. Edges: Seal edges except when the film is applied with a lacquer that prevents moisture or free water from penetrating between the film and the glass.
- B. Coating: Provide coating with uniform finish, without noticeable pin holes, streaks, thin spots, scratches, or banding.
1. Light Transmission:
 - a. Maximum Variation across Width and Length: Not to exceed 1 percent.
 - b. *Variation in Transmission across Width and Length: Not to exceed 2 percent.*
- C. Rate of Change of Total Transmission across Width and Length: Not to exceed 1 percent in 4 inches.

2.5 GLAZING ACCESSORIES

- A. Compatibility: Provide glazing sealants compatible with one another and with other materials in contact, including glass products, seals of insulating glass units, and glazing channel substrates, under conditions of service and application, demonstrated by sealant manufacturer based on testing and field experience.
- B. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
- C. Colors of Exposed Glazing Sealants: Selected by Architect.

- D. Glazing Sealant: Neutral curing silicone glazing sealant complying with ASTM C 920, Type S, Grade NS, Class 100/50, Use NT.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Dow Corning Corporation.
 - b. GE Construction Sealants; Momentive Performance Materials Inc.
 - c. May National Associates, Inc.; a subsidiary of Sika Corporation.
 - d. Pecora Corporation.
 - e. Sika Corporation.
- E. Back Bedding Mastic Glazing Tapes: Preformed, butyl based, 100 percent solids elastomeric tape; non-staining and non-migrating in contact with nonporous surfaces; with or without spacer rod recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C 1281 and AAMA 800 for products indicated below:
 - 1. AAMA 804.3 tape, where indicated.
 - 2. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
 - 3. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.
- F. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:
 - 1. AAMA 810.1, Type 1, for glazing applications in which tape acts as the primary sealant.
 - 2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.
- G. Miscellaneous Glazing Accessories: Provide products of material, size, and shape complying with referenced glazing standard, with requirements of manufacturers of glass and other glazing materials for application indicated, and with proven record of compatibility with surfaces contacted in installation.
 - 1. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.
 - 2. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.
 - 3. Spacers: Elastomeric blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
 - 4. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side walking).
 - 5. Cylindrical Glazing Sealant Backing: ASTM C 1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.
 - 6. Perimeter Insulation for Fire Resistive Glazing: Product approved by testing agency listed and labeled fire resistant glazing product with which it is used for application and fire protection rating indicated.

2.6 GLAZING COMPOUND FOR FIRE-RATED GLAZING MATERIALS (G5.1)

- A. Glazing Tape: Closed cell polyvinyl chloride (PVC) foam, coiled on release paper over adhesive on two sides, maximum water absorption by volume of 2 percent. Glass panels that exceed 1,393 sq. inches for 90-minute ratings must be glazed with fire-rated glazing tape supplied by manufacturer.
- B. Glazing Compound: DAP 33 putty.

- C. [Silicone Sealant: One-part neutral curing silicone, medium modulus sealant, Type S; Grade NS; Class 25 with additional movement capability of 50 percent in both extension and compression (total 100 percent); Use (Exposure) NT; Uses (Substrates) G, A, and O as applicable. Available Products:
 - 1. Dow Corning 795 - Dow Corning Corp.
 - 2. Silglaze-II 2800 - General Electric Co.
 - 3. Spectrem 2 - Tremco Inc.
- D. Setting Blocks: Neoprene, EPDM, or silicone; tested for compatibility with glazing compound; of 70 to 90 Shore A hardness.

2.7 FABRICATION OF GLAZING UNITS

- A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.
 - 1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
 - a. Temperature Change: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), material surfaces.
 - 2. Edge and Surface Conditions: Comply with the recommendations of AAMA *Structural Properties of Glass* for clean cut edges, except comply with manufacturer's recommendations.
 - 3. Exposed Glass Edges and Surface Condition: Finish edges flat with an arrissed edge profile (small bevel of uniform width not exceeding 1.5 mm at an angle of approximately 45 degrees to the surface of the glass) with polished (surface is reflective in appearance similar to the major surface of the glass) surface.
- B. Cutting: Wheel cut or sawed edges and seamed at manufacturer's option. For site cut glass, provide glass 2 inches (50.8 mm) larger than required in both dimensions to facilitate cutting of clean cut edges without the necessity of seaming or nipping. Do not cut, seam, nip or abrade heat treated glass.
- C. Butt Glazing: Clean cut or flat grind vertical edges of butt glazed monolithic lites to produce square edges with slight chamfers at junctions of edges and faces.
 - 1. Edges: Grind smooth and polish exposed glass edges and corners.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:
 - 1. Manufacturing and installation tolerances, including size, squareness, and offsets at corners.
 - 2. Presence and functioning of weep systems.
 - 3. Minimum required face and edge clearances.
 - 4. Effective sealing between joints of glass-framing members.
- B. Proceed with installation after correcting unsatisfactory conditions.

3.2 PREPARATION

- A. Clean glazing channels and framing members receiving glass immediately before glazing.

Remove coatings not firmly bonded to substrates.

1. Comply with manufacturer instructions for wiping of surfaces immediately before application of primers.
 2. Wipe metal surfaces with IPA (isopropyl alcohol) unless otherwise required by compatibility and adhesion testing results.
- B. Inspect each piece of glass immediately before installation. Do not install pieces improperly sized or with damaged edges, scratches, abrasion, or evidence damage. Remove labels from glass immediately after installation.
- C. Examine glazing units to locate exterior and interior surfaces. Label or mark units so exterior and interior surfaces are readily identifiable. Do not use materials that leave visible marks in the completed Work.
- D. Seal vent (breather or capillary) tubes in insulating glass units in accordance with insulating glass manufacturer written recommendations.
- E. Glass Film Preparation:
1. Remove particulate matter on the glass surface using a scraping blade.
 2. Place an absorbent towel on window sill or sash to absorb moisture generated by the film application.

3.3 GLAZING

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
- C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- F. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm).
1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
 2. Provide 1/8 inch (3 mm) minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and according to requirements in referenced glazing publications.

- H. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- I. Set glass lites with proper orientation so that coatings face exterior or interior as specified.
- J. Where wedge shaped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.
 - 1. Square cut wedge shaped gaskets at corners and install gaskets as recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended by gasket manufacturer.
- K. Tape Glazing: Position tapes on fixed stops so that, when compressed by glass, the exposed edges are flush with or protrude slightly above sightline of stops.
 - 1. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make tapes fit opening.
 - 2. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.
 - 3. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
 - 4. Do not remove release paper from tape until right before each glazing unit is installed.
 - 5. Apply heel bead of elastomeric sealant.
 - 6. Center glass lites in openings on setting blocks, and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
 - 7. Apply cap bead of elastomeric sealant over exposed edge of tape.
- L. Gasket Glazing (Dry): Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
 - 1. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
 - 2. Installation with Drive in Wedge Gaskets: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
 - 3. Installation with Pressure Glazing Stops: Center glass lites in openings on setting blocks, and press firmly against soft compression gasket. Install dense compression gaskets and pressure glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
 - 4. Install gaskets to protrude past face of glazing stops.
- M. Sealant Glazing (Wet): Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
 - 1. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
 - 2. Tool exposed surfaces of sealants to provide a substantial wash away from glass.
- N. Erection Tolerances:
 - 1. Maximum Deviation from Vertical: 1/8 inch in any story and 1/4 inch in any 45 foot run.

2. Maximum Deviation from Horizontal: 1/8 inch in any 30 foot run.
3. Maximum Deviation from True Alignment: 1/32 inch for any two (2) abutting units.
Allow no edge projections.
4. Maximum Joint Gap: 1/32 inch.

3.4 CLEANING AND PROTECTION

- A. Immediately after installation remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
 1. If contaminating substances come into contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.
- C. Remove and replace glass that is damaged during construction period.
- D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

PART 4 SCHEDULE

4.1 GLAZING SCHEDULE

- A. **G-1 Insulated Glass:** 1 inch Glass Unit: 1/4" Bronze Tempered, 1/2" Black Spacer, 1/4" Solarban 70 - #3 Surface Tempered.
- B. ~~**G-2 Tinted Tempered Glass:** 1/4 inch (6 mm) tinted tempered glass.~~
- C. ~~**G-3 Clear Tempered Glass:** 1/4 inch (6 mm) clear tempered float glass.~~
- D. ~~**G-4 Annealed Float Glass:** *Not Used*.~~
- E. ~~**G-5 20 min. Fire Rated Glass:** *Not Used*~~
- F. ~~**G-5.1 90 min. Fire Rated Glass:** 3/16" inch (5 mm) ceramic, premium clear fire rated glass; 90 minute UL labeled No. R13377. All test performed in accordance with UL 9, UL 10C, NFPA 80, NFPA 257.~~
- G. ~~**G-6 Acoustic Glazing:** *Not Used*~~
- H. ~~**G-7 Laminated Glass:** *Not Used*~~
- I. ~~**G-10 Insulated Spandrel Glass:** *Not Used*~~

END OF SECTION 08 80 00

SECTION 09 65 20 - RESILIENT BASE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes: Requirements including but not limited to:
 - 1. Rubber base.
 - 2. Accessories necessary for a complete installation.

1.3 SUBMITTALS

- A. Product Data: Technical data for each type of product including manufacturer's installation instructions.
- B. Samples: Sample of Base Selected or Color Chart if none selected.
- C. Maintenance Data: Submit for inclusion in maintenance manuals.
- D. Extra Stock: Provide 20 feet of each.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Entity having minimum 5 years documented experience who employs workers competent in techniques required by manufacturer for floor tile installation and seaming method indicated.
- B. Interior floor-wall base that is 6 inches (152mm) or less in height shall be tested in accordance with Section 804.2 and shall be not than Class II. Where a Class I floor finish is required, the floor-wall base shall be Class I.
 - 1. Exception: Interior trim material that comply with Section 806.7

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store base and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 degrees F (10 degrees C) or more than 85 degrees F (29 degrees C). Store floor tiles on flat surfaces.

1.6 FIELD CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 degrees F (21 degrees C) or more than 85 degrees F (29 degrees C), in spaces to receive floor tile during the following time periods:
 - 1. 48 hours before installation.
 - 2. During installation.
 - 3. 48 hours after installation.

- B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 degrees F (13 degrees C) or more than 95 degrees F (35 degrees C).
- C. Close spaces to traffic for 48 hours after installation.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Basis of Design Product: Manufacturers and tile series, pattern, and color selections are indicated in the Finish Schedule and are a basis of design. Subject to compliance with requirements, provide product indicated in Finish Schedule or comparable product by one of the following:
 - 1. Burke Mercer.
 - 2. Johnsite, a division of Tarkett Group.
 - 3. Roppe Rubber Corporation.
 - 4. Or approved equal.
- B. Rubber Base: ASTM F1861.
 - 1. Material: Rubber, vulcanized, Type TS, Group I.
 - 2. Manufacturing Method: Group I (solid, homogeneous).
 - 3. Style: Topset cove; minimum 100 foot coil, cut to length required.
 - 4. Minimum Thickness: 0.125 inch (3.2 mm).
 - 5. Color: BLACK
 - 6. Height: 4 inches, unless indicated otherwise.
 - 7. Outside Corners: Pre-formed.
 - 8. Inside Corners: Pre-formed.
- C. Adhesives: Water resistant type recommended by floor tile and adhesive manufacturers to suit floor tile and substrate conditions indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates for compliance with requirements for maximum moisture content and other conditions affecting performance of the work.
 - 1. Verify that finishes of substrates comply with tolerances and other requirements specified for other work and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of floor tile.
- B. Proceed with installation after correcting unsatisfactory conditions. Installation of resilient flooring and accessories indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Immediately before installation, sweep clean substrates to be covered by resilient base.

3.3 INSTALLATION

- A. Comply with manufacturer's written instructions for installing flooring. Scribe and cut flooring to butt neatly and tightly to vertical surfaces, permanent fixtures, and built in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Extend flooring into toe spaces, door reveals, closets, and similar openings.

- B. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on flooring as marked on substrates. Use chalk or other nonpermanent marking device.
- C. Resilient Base: Comply with manufacturer's written instructions for installing resilient base. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.
 - 1. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.
 - 2. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
 - 3. Do not stretch resilient base during installation.
 - 4. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.
 - 5. Preformed Corners: Install preformed corners before installing straight pieces.
 - 6. Job Formed Corners: Not allowed.

END OF SECTION 09 65 20

SECTION 09 65 23 LUXURY VINYL TILE FLOORING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes requirements limited to:
 - 1. Luxury vinyl floor tile.
 - 2. Accessories necessary for a complete installation.
- B. Related Sections:
 - 1. Section 03 30 00: Cast-In-Place Concrete.
 - 2. Section 09 65 13.13: Resilient Base.

1.3 SUBMITTALS

- A. Product Data: Technical data for each type of product including manufacturer's installation instructions.
- B. Shop Drawings - For each type of floor tile. Include floor tile layouts, edges, columns, doorways, enclosing partitions, built in furniture, cabinets, and cutouts:
 - 1. Show details of special patterns.
- C. Samples - Full size units of each color and pattern of floor tile required:
 - 1. Luxury Vinyl Tile (LVT) flooring: 18 inch by 18 inch (460 mm by 460 mm) tile in each color selected and 12 inch long piece of base material in each color selected for approval.
- D. Product Schedule: Submit for floor tile using same designations indicated on Drawings.
- E. Maintenance Data: Submit for inclusion in maintenance manuals.
- F. Reports: Certified Moisture Testing Results.

1.4 QUALITY ASSURANCE

- A. Regulatory Requirements:
 - 1. Fire Test Response Characteristics - For resilient tile flooring, as determined by testing identical products according to ASTM E648 or NFPA 253 by a qualified testing agency:
 - a. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.
 - b. Smoke Density: Maximum specific optical density of 450 per ASTM E662.
 - 2. Accessibility Requirements - Comply with applicable requirements:
 - a. U.S. Architectural and Transportation Barriers Compliance Board Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG).
 - b. 2010 ADA regulations.
 - c. 2019 CBC Section 11B-302.1.
- B. Installer Qualifications: Entity having minimum 5 years documented experience who employs workers competent in techniques required by manufacturer for floor tile installation

and seaming method indicated.

- C. Contractor is required to achieve the specified concrete moisture content prior to installation of all flooring materials or use a flooring manufacture approved moisture barrier prior to installation of all flooring products. Contractor shall provide certified moisture testing results per ASTM F2170 (*Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes*) to Architect and Owner prior to floor installation. Acceptable moisture content of concrete sub floor shall be within approved manufacture limits or lower prior to installation.
- D. Source Limitations:
 - 1. Tile: Obtain floor products of same type and color or finish from one source or producer. Obtain tile from same production run and of consistent quality in appearance and physical properties for each contiguous area.
 - 2. Setting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from a single manufacturer and each aggregate from one source or producer.

1.5 WARRANTY

- A. Warrant the Work specified herein for ten (10) years against becoming unserviceable or causing an objectionable appearance resulting from either defective, or nonconforming materials and workmanship.
- B. Defects shall include, but not be limited to, the following:
 - 1. Damaged tile, including broken or chipped edges.
 - 2. Loose or missing tile.
 - 3. Noticeable deterioration or discoloring of tile or grout.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store floor tile and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 degrees F (10 degrees C) or more than 85 degrees F (29 degrees C). Store floor tiles on flat surfaces.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Basis of Design Product:
 - 1. Manufacturers and tile series, pattern, and color selections are indicated in the Finish Schedule and are a basis of design. Subject to compliance with requirements, provide product indicated in Finish Schedule or comparable product by one of the following:
 - a. Luxury Vinyl Tile (LVT):
 - 1) Basis of Design: **Ground Rules by Bently Mills.**
- B. Luxury Solid Vinyl Tile (LVT-1) - ASTM F1700:
 - 1. Class III, Type B:
 - 2. Thickness: 0.1 inch (2.5 mm).
 - 3. Size: Refer to Finish Schedule.
 - 4. Construction: Heterogeneous Resilient Flooring with .030" (30 mil) high density wear layer.
 - 5. Colors: As selected by Architect from manufacturer's available colors.
 - 6. Patterns: Factory mounted patterns as selected by Architect.

- C. Trowelable Leveling and Patching Compounds: Latex modified, portland cement based formulation provided or approved by floor tile manufacturer for applications indicated.
- D. Adhesives: Water resistant type recommended by floor tile and adhesive manufacturers to suit floor tile and substrate conditions indicated.
- E. Floor Polish: Provide protective, liquid floor polish products recommended by floor tile manufacturer.

PART 3 EXECUTION

3.1 FIELD CONDITIONS

- A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 degrees F (21 degrees C) or more than 85 degrees F (29 degrees C), in spaces to receive floor tile during the following time periods:
 - 1. 48 hours before installation.
 - 2. During installation.
 - 3. 48 hours after installation.
- B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 degrees F (13 degrees C) or more than 95 degrees F (35 degrees C).
- C. Close spaces to traffic during floor tile installation.
- D. Close spaces to traffic for 48 hours after floor tile installation.
- E. Where demountable partitions, cabinets, and similar items are indicated for installation on top of resilient tile flooring, install tile before these items are installed.
- F. Do not install flooring over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive, as determined by flooring manufacturer's recommended bond and moisture test.
- G. Install flooring after other finishing operations, including painting, have been completed.

3.2 EXTRA STOCK

- A. Furnish extra materials matching products installed and packaged with protective covering for storage and identified with labels describing contents:
 - 1. LVT Flooring: 1 percent of quality installed or 2 full unopened containers, whichever is greater.

3.3 EXAMINATION

- A. Examine substrates for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work:
 - 1. Verify that finishes of substrates comply with tolerances and other requirements specified for other Work and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of floor tile.
- B. Proceed with installation after correcting unsatisfactory conditions. Installation of resilient flooring and accessories indicates acceptance of surfaces and conditions.

3.4 PREPARATION

- A. Prepare substrates according to floor tile manufacturer's written instructions to ensure adhesion of resilient products.
- B. Concrete Substrates - Prepare according to ASTM F710:
 - 1. Verify substrates are dry and free of curing compounds, sealers, and hardeners.
 - 2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by floor tile manufacturer. Do not use solvents.
 - 3. Alkalinity and Adhesion Testing: Perform tests recommended by floor tile manufacturer. Proceed with installation only after substrate alkalinity falls within range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.
 - 4. Moisture Testing - Proceed with installation only after substrates pass testing according to floor tile manufacturer's written recommendations, but not less stringent than the following:
 - a. Perform anhydrous calcium chloride test according to ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.
 - b. Perform relative humidity test using in situ probes according to ASTM F2170. Proceed with installation only after substrates have a maximum **95** percent relative humidity level.
 - 5. Bond Test: Bond 3' x 3' panels spaced 50 feet apart throughout subfloor area. After moisture test proves floor acceptably dry, install panels using adhesive. If panels are securely bonded after 72 hours, subfloor is sufficiently clean of foreign materials for satisfactory installation of resilient flooring.
- C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.
- D. Do not install floor tiles until they are the same temperature as the space where they are to be installed:
 - 1. At least 48 hours in advance of installation, move resilient floor tile and installation materials into spaces where they will be installed.
- E. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient floor tile.

3.5 INSTALLATION

- A. Comply with manufacturer's written instructions for installing flooring. Scribe and cut flooring to butt neatly and tightly to vertical surfaces, permanent fixtures, and built in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Extend flooring into toe spaces, door reveals, closets, and similar openings.
- B. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on flooring as marked on substrates. Use chalk or other nonpermanent marking device.
- C. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter:
 - 1. Lay tiles square with room axis.

- D. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles:
 - 1. Lay tiles with grain running in one direction.
- E. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built in furniture, cabinets, pipes, outlets, and door frames.
- F. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings.
- G. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk or other nonpermanent marking device.
- H. Install floor tiles on covers for telephone and electrical ducts, building expansion-joint covers, and similar items in finished floor areas. Maintain overall continuity of color and pattern between pieces of tile installed on covers and adjoining tiles. Tightly adhere tile edges to substrates that abut covers and to cover perimeters.
- I. Adhere floor tiles to flooring substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.
- J. Floor Tile - Comply with manufacturer's written instructions for installing floor tile:
 - 1. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter:
 - a. Lay tiles square with room axis unless pattern indicated for an area.
 - 2. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles. Lay tiles with grain running in one direction.
- K. Resilient Accessories - Comply with manufacturer's written instructions for installing resilient accessories:
 - 1. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.

3.6 CLEANING AND PROTECTION

- A. Comply with manufacturer's written instructions for cleaning and protecting floor tile.
- B. Perform the following operations immediately after completing floor tile installation:
 - 1. Remove adhesive and other blemishes from exposed surfaces.
 - 2. Sweep and vacuum surfaces thoroughly.
 - 3. Damp mop surfaces to remove marks and soil.
- C. Protect floor tile from mars, marks, indentations, and damage from construction operations and placement of equipment and fixtures during remainder of construction period.
- D. Floor Polish: Remove soil, adhesive, and blemishes from floor tile surfaces before applying liquid floor polish. Apply two coat(s).
- E. Sealers and Finish Coats:

1. Remove soil, visible adhesive, and surface blemishes from resilient terrazzo floor tile surfaces before applying liquid cleaners, sealers, and finish products:
 - a. Sealer: Apply two base coats of liquid sealer.
 - b. Finish: Apply two coats of liquid floor finish.
- F. Cover floor tile until Substantial Completion.
- G. Clean floor surfaces not more than 4 days before dates scheduled for inspections intended to establish date of Substantial Completion in each area of Project. Clean products according to manufacturer's written recommendations:
 1. Before cleaning, strip protective floor polish.
 2. Reapply polish to floor surfaces to restore protective floor finish according to flooring manufacturer's written recommendations.

END OF SECTION 09 65 23

SECTION 09 68 00 - CARPETING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes: Requirements including but not limited to:
 - 1. Carpet and pad.
 - 2. Accessories necessary for a complete installation.

1.3 DEFINITIONS

- A. Comparable Product: Product demonstrated and approved through submittal process, or where indicated as a produce substitution, to have the indicated qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.

1.4 SUBMITTALS

- A. Product Data: Technical data including installation recommendations for each type of substrate:
 - 1. Carpet: For each type indicated. Include manufacturer's written data on physical characteristics, durability, and fade resistance.
- B. Samples: For each products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.
 - 1. Carpet: 12 inch (300 mm) square Sample from approved color and product of carpet.
 - 2. Exposed Edge, Transition, and Other Accessory Stripping: 12 inch (300 mm) long Samples.
 - 3. Carpet Seam: 6 inch (150 mm) Sample.
 - 4. Mitered Carpet Border Seam: 12 inch (300 mm) square Sample. Show carpet pattern alignment.
 - 5. Carpet base and accessory samples.
- C. Product Test Reports: For carpet and carpet cushion, for tests performed by a qualified testing agency.
- D. Shop Drawings: Showing extent of product, seam direction, and location and type of carpet accessories. Submittal to indicate columns, doorways, enclosing walls or partitions, casework, and locations where cutouts are required.
- E. Maintenance Data: For carpet to include in maintenance manuals. Include the following:
 - 1. Methods for maintaining carpet, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
 - 2. Precautions for cleaning materials and methods that could be detrimental to carpet and carpet cushion.

1.5 QUALITY ASSURANCE

- A. Regulatory Requirements:
 - 1. Building Code: Comply with applicable requirements for the IBC for interior finishes.
 - 2. Fire Test Response Characteristics: Provide products with the critical radiant flux classification determined by testing identical products in accordance with ASTM E 648. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.
 - 3. Accessibility Requirements: Comply with applicable requirements.
 - a. U.S. Architectural and Transportation Barriers Compliance Board Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG).
 - b. ICC/ANSI A117.1 Accessible and Useable Building and Facilities.
 - c. Texas Accessibility Standards (TAS).
- B. Installer Qualifications: Installer having minimum 5 years documented experience as a commercial carpet installer, who is certified by the International Certified Floorcovering Installers Association at the Commercial II or higher certification level.
- C. Contractor is required to achieve the specified concrete moisture content prior to installation of all flooring materials or use a flooring manufacture approved moisture barrier prior to installation of all flooring products.
- D. Contractor is required to achieve the specified concrete moisture content prior to installation of all flooring materials or use a flooring manufacture approved moisture barrier prior to installation of all flooring products. Contractor shall provide certified moisture testing results per ASTM F2170 (*Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes*) to Architect and Owner prior to floor installation. Acceptable moisture content of concrete sub floor shall be within approved manufacture limits or lower prior to installation.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Comply with CRI 104.
- B. Store in a dry location between 65 degrees F and 90 degrees F and a relative humidity below 65%. Protect from damage and soiling. Stack carpet rolls horizontally, elevated above slab level on a flat surface, stacked no higher than two rolls.
- C. Store materials in area of installation for minimum period of 48 hours prior to installation.
- D. Protect carpet from damage, dirt, stains, and moisture.

1.7 FIELD CONDITIONS

- A. Comply with CRI 104 for temperature, humidity, and ventilation limitations.
- B. Environmental Limitations: Do not deliver or install carpet and carpet cushion until spaces are enclosed and weathertight, wet work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at occupancy levels during the remainder of the construction period.
- C. Do not install carpet and carpet cushion over concrete slabs until slabs have cured, are sufficiently dry to bond with adhesive, and have pH range recommended by carpet manufacturer.
- D. Where demountable partitions or other items are indicated for installation on top of carpet, install carpet before installing these items.

- E. Do not install carpet under any base cabinet casework except at open knee space.

1.8 COORDINATION

- A. Contractor's responsibility to hire movers to move furniture as required for flooring installation. Coordinate with Owner and Architect regarding temporary furniture relocation.

1.9 WARRANTY

- A. Carpet: Written warranty in which manufacturer agrees to repair or replace components of carpet installation that fail in materials or workmanship within specified warranty period.
1. Warranty does not include deterioration or failure of carpet due to unusual traffic, failure of substrate, vandalism, or abuse.
 2. Failures include, but are not limited to, more than 10 percent loss of face fiber, edge raveling, snags, runs, loss of tuft bind strength, dimensional stability, excessive surface wear, excess static discharge, and delamination.
 3. Warranty Period: 25 years non-prorated from date of Substantial Completion.

1.10 PRE-INSTALLATION CONFERENCE

- A. Refer to Section 01 31 00 – Project Management and Coordination.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Basis of Design Manufacturer: Bentley Mills; (800) 423 - 4709.
- B. Redux Deux by Bentley Mills
1. Performance:
 - a. Product Code: 6RET409A1K
 - b. Construction: Tufted Textured Loop
 - c. Fiber: Bentley Premium™ Nylon
 - d. Dye Method: Solution Dyed
 - e. Backing & Size: AFIRMA II™ Hardback (9 in x 36 in) & (24 in x 24 in)
 - f. Yarn Weight: 14 oz/yd²
 - g. Machine Gauge: 1/12 in (47.2 ends/ 10 cm)
 - h. Pile Height (High): 0.144 in
 - i. Pile Height (Medium): 0 in
 - j. Pile Height (Low): 0.092 in
 - k. Stitches: 10.3 / in - 40.6 ends/ 10 cm
 - l. Pile Density: 5911 oz/yd³
 - m. Total Weight: 60 oz/yd² - 2034.3 g/m²
 - n. Total Thickness: 0.29 in - 7.4 mm
 - o. Radiant Panel: Passes Class 1, ≥ 0.45 W/cm² (ASTM-E648)
 - p. Smoke Density: ≤ 450 Dm corr (ASTM-E662), Flaming
 - q. Static: ≤ 3.5 kV (AATCC-134), Step
 - r. Flammability: Passes Methenamine Pill Test (CPSC-FF1-70)
- C. History Notes by Bentley Mills
1. Performance:
 - a. Product Code: 4RIT20AA1K
 - b. Construction: Tufted Textured Loop
 - c. Fiber: Bentley Premium™ Type 6,6 Nylon
 - d. Dye Method: Solution Dyed
 - e. Backing & Size: AFIRMA II™ Hardback (9 in x 36 in) & (24 in x 24 in)

- f. Yarn Weight: 12 oz/yd²
- g. Machine Gauge: 1/12 in
- h. Pile Height (High): 0.218 in
- i. Pile Height (Medium): 0.187 in
- j. Pile Height (Low): 0.125 in
- k. Stitches: 11.9
- l. Radiant Panel: Passes Class 1 ≥ 0.45 W/cm² (ASTM-E648)
- m. Smoke Density: < 450 dm Corrected (ASTM-E662), Flaming
- n. Static: ≤ 3.5 kV (AATCC-134), Step
- o. Flammability: Passes Methenamine Pill Test (CPSC-FF1-70)

- D. Carpet (Walk-Off):
 - 1. Basis of Design Product/Manufacturer: "Assertive Action" as manufactured by Tandus-Centiva, A Tarkett Company.
 - 2. Pattern Type: Texture.
 - 3. Dye Method: TDX SD Solution.
 - 4. Color(s): As selected by Architect from manufacturer's extended color line.
 - 5. Locations: As shown on drawings.
- E. Applied Soil Resistance Treatment: Standard with manufacturer.
- F. Antimicrobial Treatment: Standard with manufacturer.
- G. Adhesives: Water resistant, mildew resistant, nonstaining, pressure sensitive type to suit products and subfloor conditions indicated, complying with flammability requirements for installed carpet and is recommended by carpet manufacturer for releasable installation.
- H. Trowelable Leveling and Patching Compounds: Latex modified, hydraulic cement based formulation provided or recommended by carpet cushion manufacturer.
- I. Adhesives: Water resistant, mildew resistant, nonstaining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet and is recommended or provided by carpet and carpet cushion manufacturers.
- J. Seam Adhesive: Hot melt adhesive tape or similar product recommended by carpet manufacturer for sealing and taping seams and butting cut edges at backing to form secure seams and to prevent pile loss at seams.
- K. Metal Edge/Transition Strips: Extruded aluminum with mill finish of profile and width shown, of height required to protect exposed edge of carpet, and of maximum lengths to minimize running joints.
- L. Extra Carpet: After completion of the carpet installation, the carpet subcontractor shall provide an additional three (3) percent of total yards installed of each carpet specified to the Owner for future carpet replacement that may be required. This extra stock is to be unused rolls, tiles, and mats and does not include scraps.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet performance. Examine carpet for type, color, pattern, and potential defects.

- B. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 and the following:
 - 1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by carpet and cushion manufacturer.
 - 2. Subfloor finishes comply with requirements specified in Section 03 30 00 for slabs receiving carpet.
 - 3. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.
- C. Proceed with installation after correcting unsatisfactory conditions.

3.2 PREPARATION

- A. Comply with CRI 104, Section 7.3 *Site Conditions; Floor Preparation* and with carpet manufacturer's written installation instructions for preparing substrates.
- B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch (3 mm) wide or wider, and protrusions more than 1/32 inch (0.8 mm), unless more stringent requirements are required by manufacturer's written instructions.
- C. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by carpet and cushion manufacturer.
- D. Broom and vacuum clean substrates to be covered immediately before installing carpet.

3.3 INSTALLATION

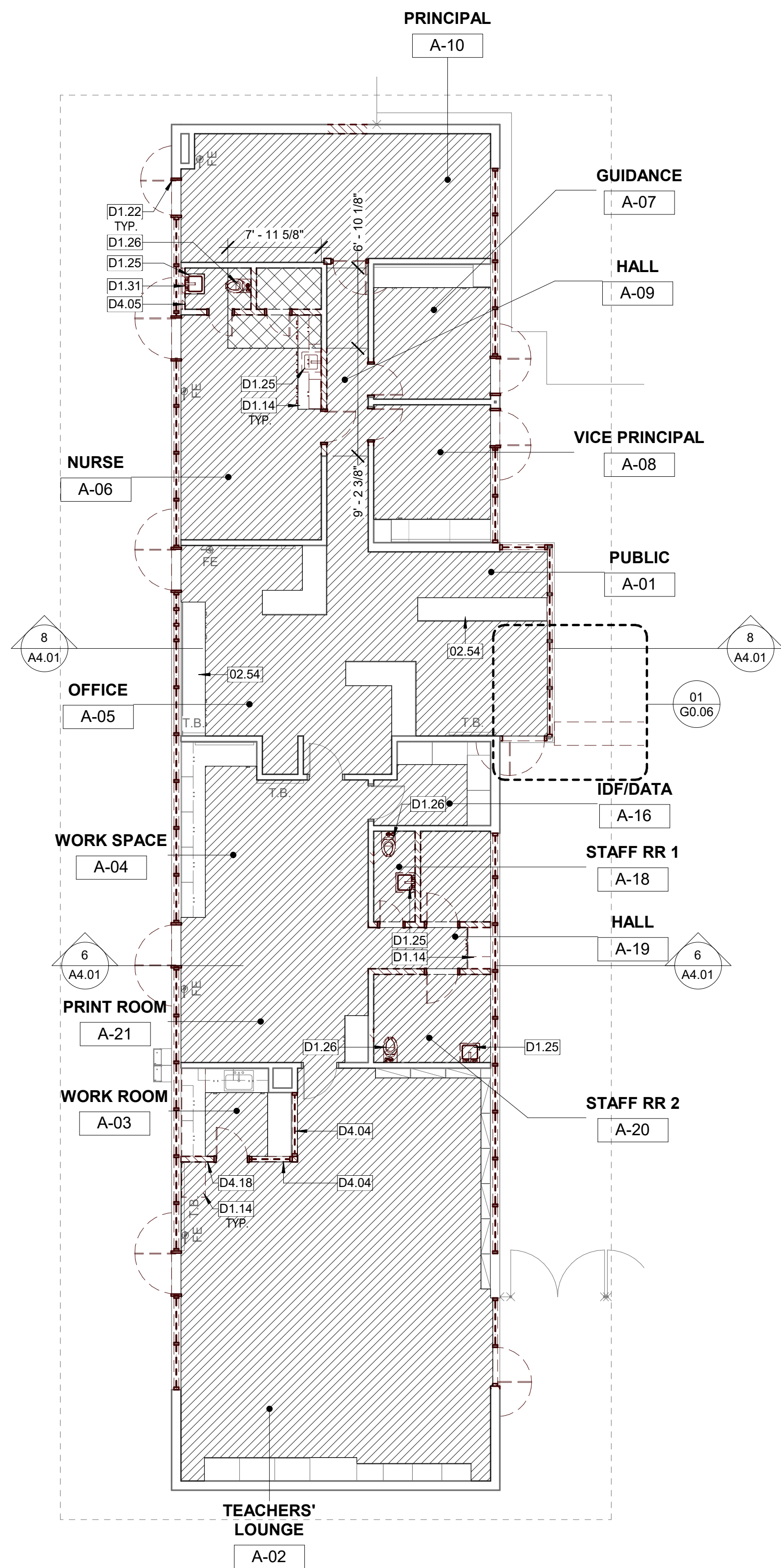
- A. Comply with CRI 104 and carpet and carpet cushion manufacturer written installation instructions for the following:
 - 1. Direct Glue Down Installation: Comply with CRI 104, Section 9 *Direct Glue Down Installation*.
 - 2. Stair Installation: Comply with CRI 104, Section 13 *Carpet on Stairs* for glue down installation.
- B. Comply with carpet manufacturer's written recommendations and Shop Drawings for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile. At doorways, center seams under the door in closed position.
 - 1. Do not bridge building expansion joints with carpet.
 - 2. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet manufacturer.
 - 3. Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.
- C. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use nonpermanent, nonstaining marking device.
- D. Install pattern parallel to walls and borders to comply with CRI 104, Section 15, *Patterned Carpet Installations* and with carpet manufacturer's written recommendations.

3.4 CLEANING AND PROTECTING

- A. Perform cleaning operations immediately after installing carpet:
 - 1. Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer.
 - 2. Remove yarns that protrude from carpet surface.
 - 3. Vacuum carpet using commercial machine with face beater element.
- B. Protect installed carpet to comply with CRI 104, Section 16, *Protecting Indoor Installations*.
- C. Protect carpet against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by carpet manufacturer and carpet cushion manufacturer.

END OF SECTION 09 68 00

06 DEMOLITION FLOOR PLAN - BUILDING C7



30 DEMOLITION FLOOR PLAN - ADMINISTRATION BUILDING

20 DEMOLITION FLOOR PLAN - BUILDING S-L

10 DEMOLITION FLOOR PLAN - BUILDING C8

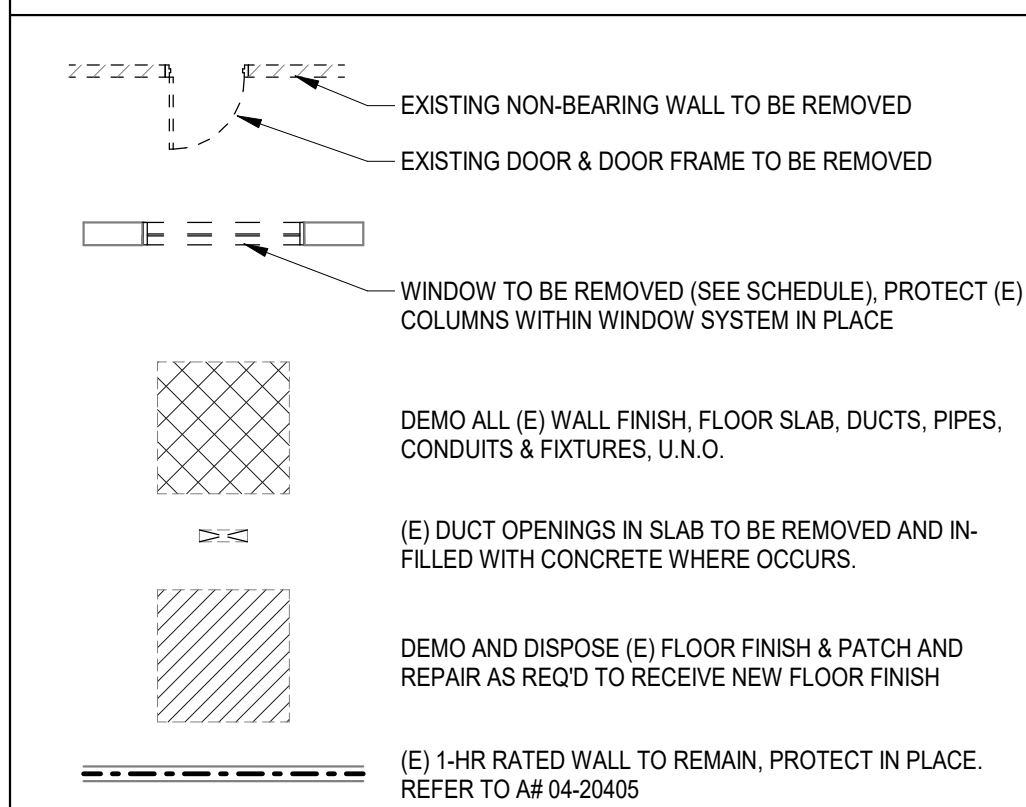
KEYNOTE LEGEND

#	Description
02.54	(E) CASEWORK TO REMAIN. PROTECT IN PLACE WHERE POSSIBLE, REMOVE & REINSTALL AS REQ'D.
02.55	(E) ACCESSIBLE SINK TO REMAIN. PROTECT IN PLACE.
02.62	(E) TUBE STEEL COLUMN WITHIN WINDOW SYSTEM TO REMAIN, PROTECT IN PLACE, WHERE OCCURS.
02.72	(E) LOCKERS TO REMAIN, PROTECT IN PLACE.
02.73	(E) BENCH TO REMAIN, PROTECT IN PLACE.
02.85	(E) STEEL PIPE COLUMN. TO REMAIN. PROTECT IN PLACE.

DEMOLITION KEYED NOTES

#	Description
D1.04	REMOVE (E) CONCRETE CURB AS INDICATED
D1.07	(E) DOOR TO BE REMOVED AND DISPOSED
D1.14	(E) CASEWORK TO BE REMOVED.
D1.21	(E) ALUMINUM FRAME & GLAZING STOREFRONT SYSTEM TO BE REMOVED AND DISPOSED
D1.22	(E) HM DOOR FRAME & (E) DOOR PANEL TO BE REMOVED AND DISPOSED
D1.23	(E) ALUMINUM FRAME & GLAZING WINDOW SYSTEM TO BE REMOVED AND DISPOSED
D1.24	(E) INTERIOR PARTITION TO BE REMOVED
D1.25	(E) LAVATORY TO BE REMOVED AND DISPOSED. PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING
D1.26	(E) WATERCLOSET TO BE REMOVED AND DISPOSED. PATCH AND REPLACE FLOOR AND WALL FINISH MATERIALS TO MATCH EXISTING
D1.30	(E) TRANSOM WINDOW TO BE REMOVED AND DISPOSED
D1.31	(E) MIRROR TO BE REMOVED AND DISPOSED. PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING AS REQ'D.
D2.03	REMOVE (E) PAPER TOWEL DISPENSER. SALVAGE TO DISTRICT. PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING
D3.11	REMOVE (E) MARKER BOARD AND DISPOSE. PATCH & REPAIR AS REQ'D. PREPARE SURFACE TO RECEIVE NEW MARKER BOARD/TACK BOARD. TYP ON ALL WALLS.
D3.71	(E) CABINET DOORS TO BE REMOVED AND DISPOSED AT ACCESSIBLE SINK
D3.75	(E) WATER CLOSET TO BE REMOVED AND RELOCATED PER PLAN. PATCH AND REPLACE FLOOR AND WALL FINISH MATERIALS TO MATCH EXISTING
D3.78	(E) PAPER TOWEL DISPENSER TO BE REMOVED AND RELOCATED PER PLAN. PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING
D3.89	REMOVE (E) SOLID PLASTIC TOILET PARTITION. PREPARE FOR NEW TOILET PARTITION. PATCH AND REPLACE FLOOR AND WALL FINISH MATERIALS TO MATCH EXISTING
D3.96	(E) URINAL TO BE REMOVED AND REPLACED. PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING
D3.97	REMOVE (E) WALL PANELS AND REPLACE WITH NEW PER SPECS. WHERE OCCURS
D3.98	REMOVE (E) INSULATION BELOW ROOF. BETWEEN RAFTERS & DISPOSE
D4.00	REMOVE (E) FIXED LOUVER ABOVE DOOR FRAME. PROTECT (E) SINGLE DOOR, FRAME & FIXED PANEL IN PLACE
D4.01	REMOVE (E) FIXED LOUVER ABOVE DOOR FRAME. PROTECT (E) DOUBLE DOOR & FRAME IN PLACE
D4.04	REMOVE (E) WINDOW SYSTEM AND FRAME. PROTECT PORTION OF (E) PONY WALL ADJACENT TO THE COUNTERTOP IN PLACE
D4.05	REMOVE (E) FURRING WALL. PROTECT (E) ADJACENT EXTERIOR WALL IN PLACE
D4.06	DEMOLISH (E) PIPE TRENCH, CHANNELS, & METAL COVER PLATE. CAP (E) PIPES AT ADJACENT CUSTODIAL STORAGE ROOMS. INFILL TRENCH TO MATCH ADJACENT SLAB LEVEL & FINISH. PROTECT (E) ADJACENT FLOOR & WALL IN PLACE. REFER TO DETAIL, CALLOUT
D4.16	REMOVE (E) FURRING WALL AND DISPOSE. PATCH AND REPAIR AS REQ'D.
D4.17	(E) URINAL TO BE REMOVED AND DISPOSED. PATCH AND REPLACE WALL FINISH MATERIALS TO MATCH EXISTING
D4.18	REMOVE (E) WALL AND DISPOSE. PATCH AND REPAIR AS REQ'D.

DEMOLITION LEGEND



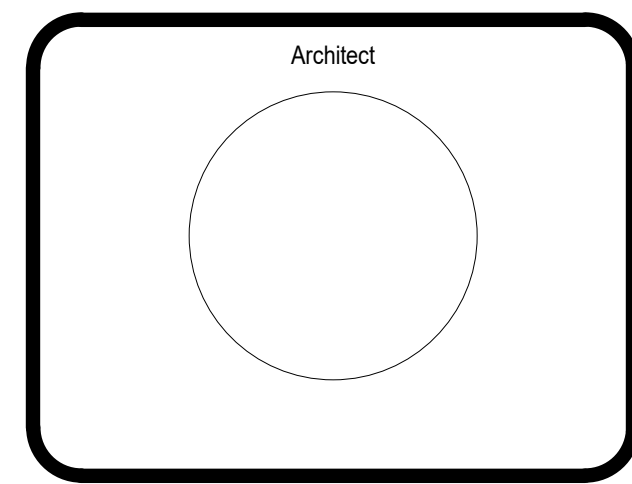
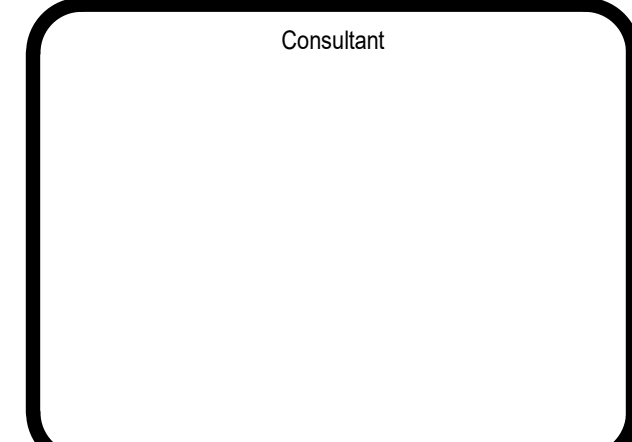
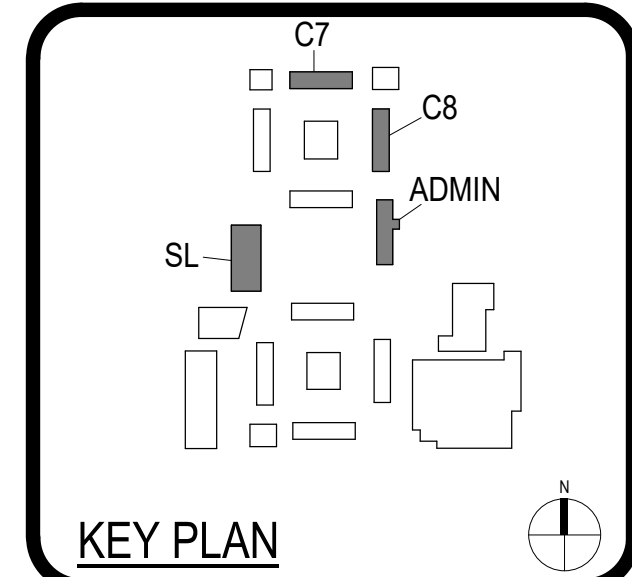
GENERAL DEMOLITION NOTES:

- DEMOLITION PLANS INDICATE SOME OF THE SCOPE-OF-WORK INVOLVED FOR THE DEMOLITION PHASE OF THIS PROJECT. CONTRACTOR SHALL REVIEW ALL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
- CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
- CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
- CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK. PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
- CONTRACTOR SHALL NOT SCALE DRAWINGS.
- ALL FURNITURE WILL BE REMOVED OR RELOCATED BY THE OWNER AS NECESSARY PRIOR TO THE DEMOLITION WORK OF THIS PROJECT. CONTRACTOR SHALL COORDINATE WITH OWNER AS REQUIRED.
- REMOVE EXISTING CONSTRUCTION TO THE EXTENT INDICATED ON THE DRAWINGS. SHOULD ANY DAMAGE OCCUR TO ANY EXISTING CONSTRUCTION TO REMAIN, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO MATCH EXISTING AND OR ADJACENT CONSTRUCTION.
- CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
- NOTIFY THE BUILDING OWNER OF ANY MATERIALS, FIXTURES, ETC. TO BE REMOVED THAT ARE DEEMED SALVAGEABLE. TURN OVER ANY REQUESTED ITEMS TO THE BUILDING OWNER IN GOOD CONDITION.
- THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS, ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
- WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, DETERMINE THE NATURE AND EXTENT OF THE CONFLICT AND NOTIFY THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
- CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
- SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVICES FOR ALL SCOPE-OF-WORK PERTAINING TO NEW MECHANICAL WORK, NEW PLUMBING UTILITIES, NEW PLUMBING WORK, NEW ELECTRICAL WORK, AND NEW TECHNOLOGY WORK. SPlice NEW REINFORCING BARS DOWELED INTO EXISTING CONCRETE AND PROVIDE NEW VAPOR RETARDER AND NEW CONTINUOUS WATERSTOPS AT JOINT BETWEEN NEW CONCRETE FLOOR SLAB AND EXISTING CONCRETE FLOOR SLAB. PATCH WITH NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
- EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
- NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT ONLY AT LOCATIONS INDICATED IN DRAWINGS TO THE HEAD. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS.
- WHERE EXISTING PLUMBING OR MECHANICAL SYSTEMS ARE TO BE REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
- PATCH FLOORS, WALLS, CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
- WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
- ALL DASHED LINES ARE DEMOLITION LINES UNLESS NOTED OTHERWISE.
- REMOVE ALL EXISTING ROOM AND BUILDING SIGNAGE.
- DEMOLISH PORTION OF (E) WALL AS REQ'D TO PROVIDE ACCESSIBLE SIDE STRIKE CLEARANCE. RE. TO REMODEL PLAN FOR EXTENT.
- EXISTING HHV BOILERS TO BE DECOMMISSIONED. DISCONNECT EXISTING HHV PIPING AT BOILER ROOM. DRAIN PIPING SYSTEM AND CAP. EXISTING RADIATORS IN CLASSROOMS TO BE REMOVED. EXPOSED HHV PIPING IN CLASSROOMS SHALL BE REMOVED BACK TO WALL PENETRATION AND CAPPED INSIDE WALL. ALL WALL OPENINGS, INCLUDING EXTERIOR WALL, SHALL BE SEALED AIR AND WATER TIGHT AND PAINTED TO MATCH EXISTING WALL COLOR. COORDINATE WITH DISTRICT ON REMOVAL OF EXISTING BOILER, PUMPS AND ASSOCIATED EQUIPMENT IN BOILER ROOM.
- EXISTING EXHAUST FANS AND DUCTWORK IN RESTROOMS TO BE REMOVED.
- DISCONNECT AND REMOVE EXISTING LIGHT FIXTURES AND DISPOSE OF IN A LEGAL MANNER. RETAIN EXISTING CIRCUITS TO ALLOW EXTENSION TO NEW LIGHT FIXTURES.
- CONTRACTOR TO DEMOLISH PLUMBING PIPING BACK TO POINTS OF CONNECTION (POC) AS IDENTIFIED ON ENGINEERING DRAWINGS FOR WATER AND SANITARY SEWER.
- CONTRACTOR WILL REMOVE FROM SITE AND PATCH AND REPAIR AS NECESSARY TO ACCOMMODATE NEW WORK.
- CONTRACTOR TO REMOVE ALL EXISTING WINDOW SHADES.
- ALL EXISTING FIRE ALARM SYSTEM TO BE REMOVED.
- ALL EXISTING ROUTERS TO BE REMOVED AND RELOCATED.
- ALL CONTRACTORS SHALL PROTECT ALL EXISTING WALL MURALS AND SCHEDULE A MEETING WITH THE OWNER AND ARCHITECT TO REVIEW ALL PROTECTION IN PLACE PRIOR TO INITIATING DEMOLITION.
- CONTRACTOR TO REMOVE AND REINSTALL ALL (E) CLOCKS, PROJECTORS, EMERGENCY EXIT SIGNAGE, SPEAKERS, AND OTHER CLASSROOM ACCESSORIES AT THE NEW APPROPRIATE HEIGHTS AND LOCATIONS PER PLANS.



ARCHITECT ANAHEIM PBK Architects, Inc.
2400 E. Katella Avenue, Suite 950
Anaheim, CA 92806
P 949-548-5000

WARNER MIDDLE SCHOOL - MODERNIZATION PROJECT



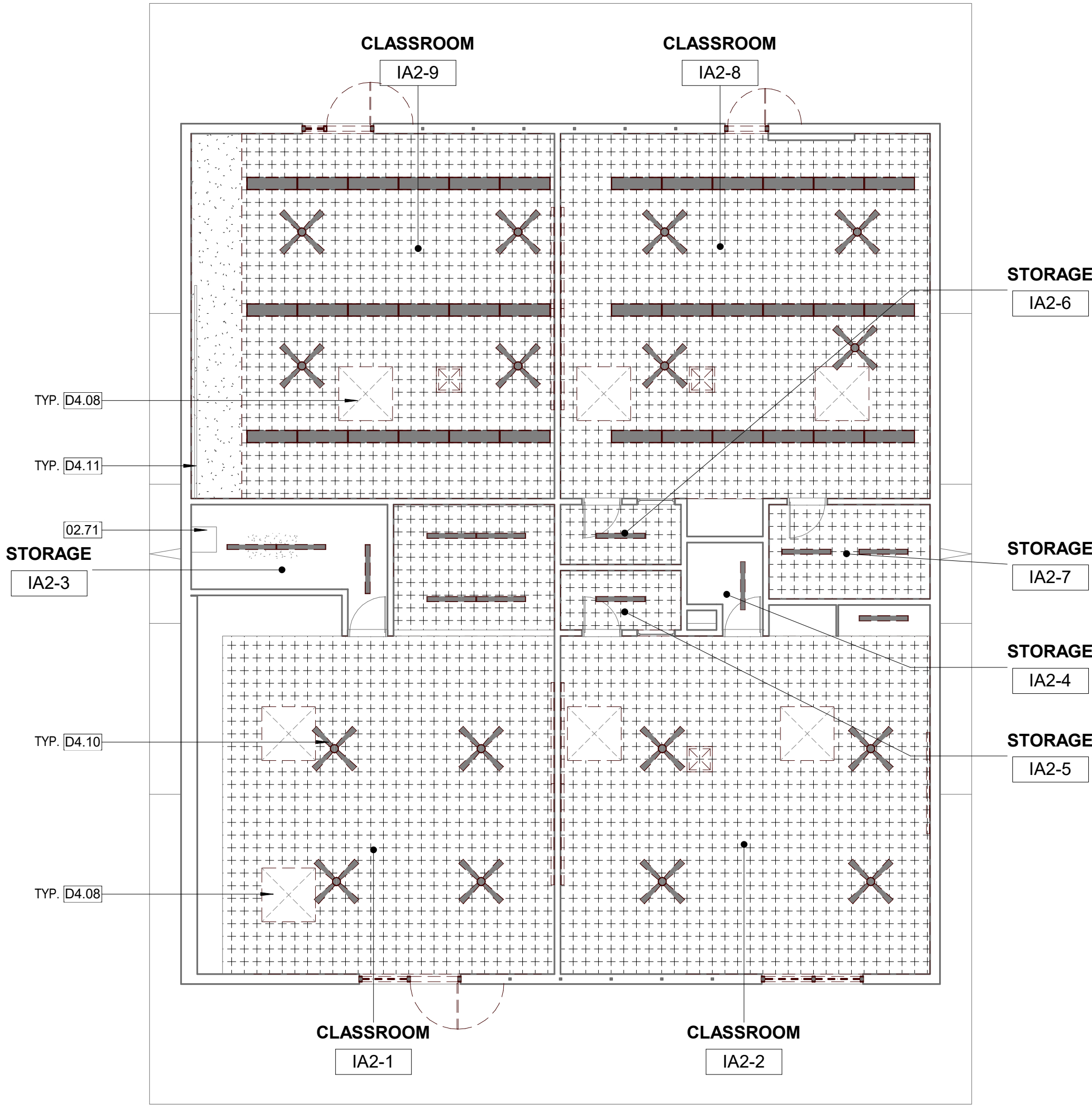
REVISIONS		
No.	Description	Date
2	ADDENDUM 02	02/07/2024

WESTMINSTER SCHOOL DISTRICT
DATE 03/31/23 PROJECT NUMBER 220526
No. 2
Description
Date
220526
02/07/2024
DSA SUBMITTAL

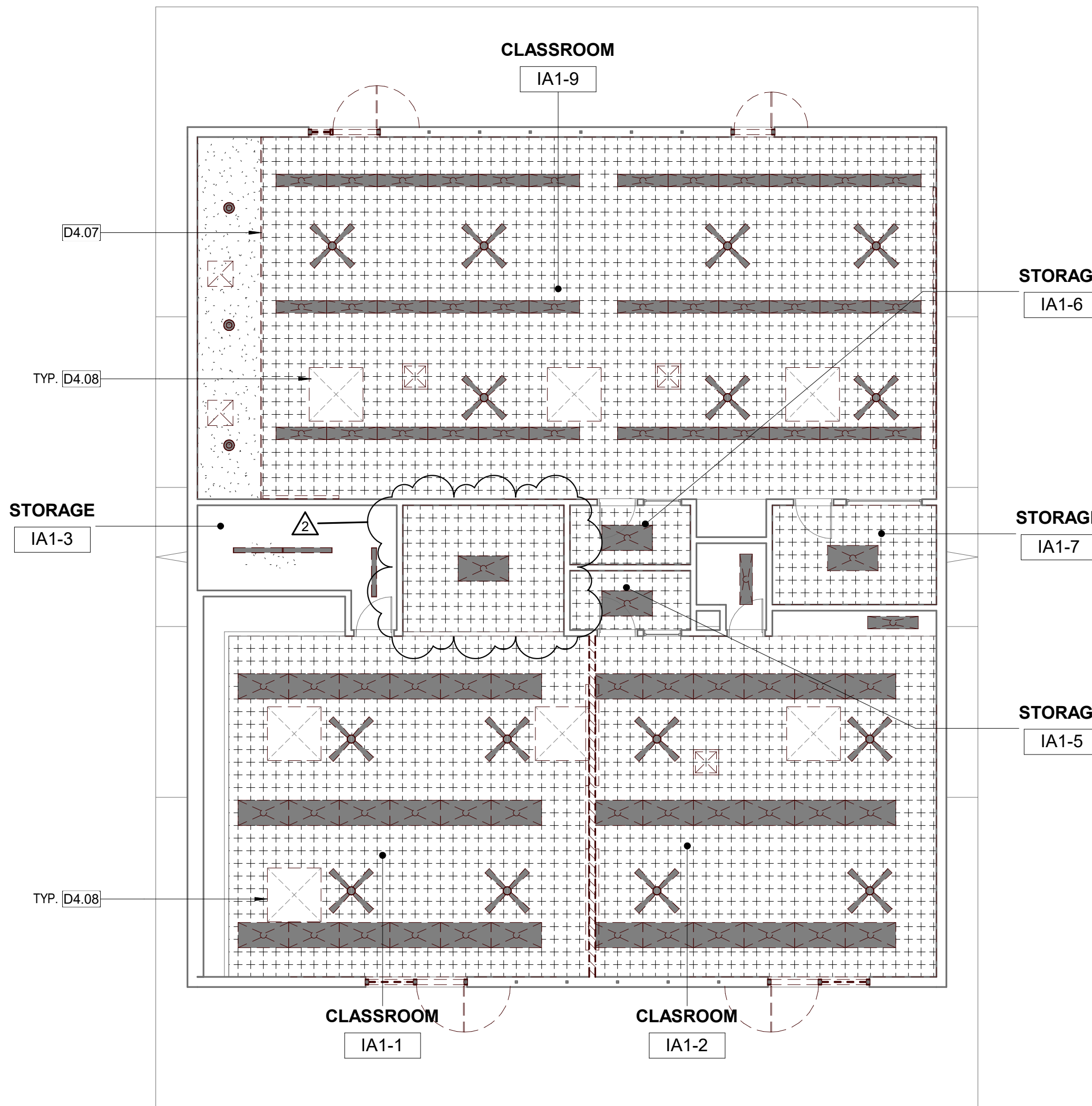
DEMO FLOOR PLANS
BUILDINGS C7, C8, SL, &
ADMIN.

AD1.01

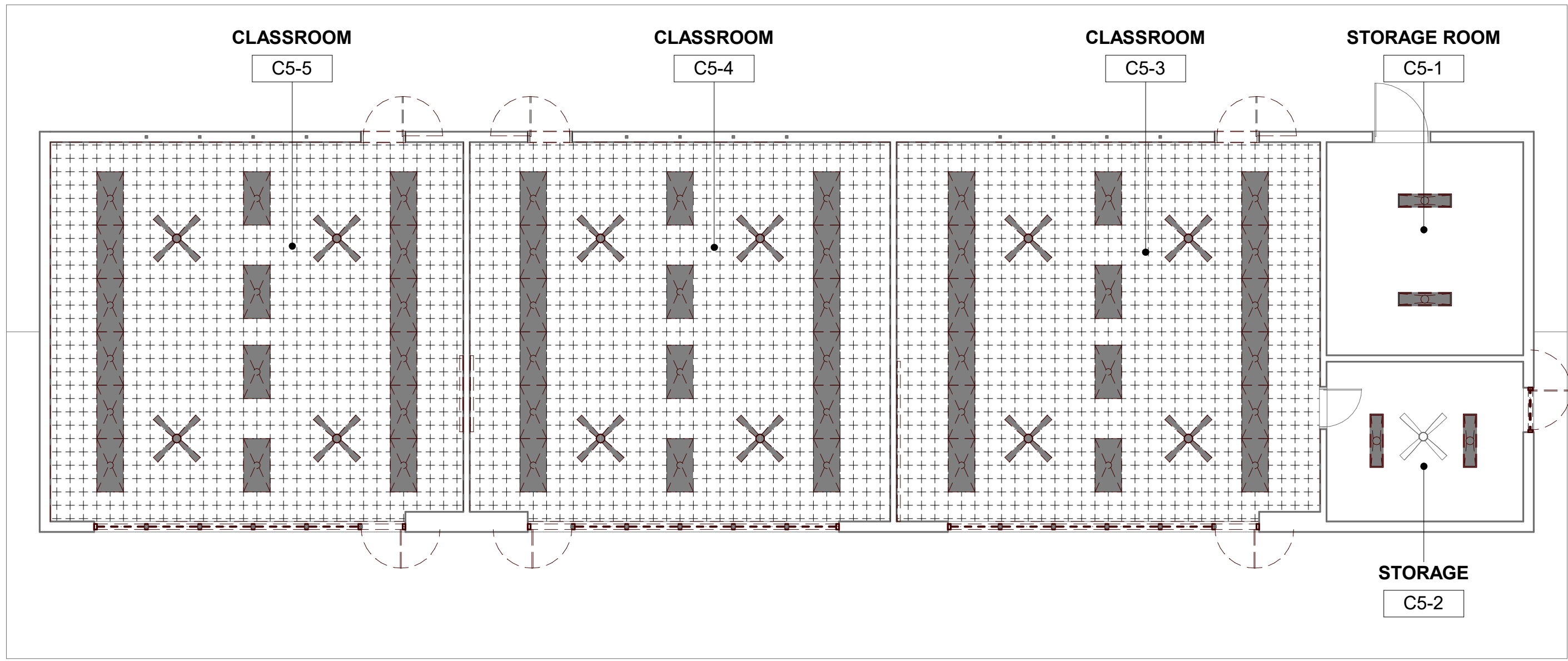
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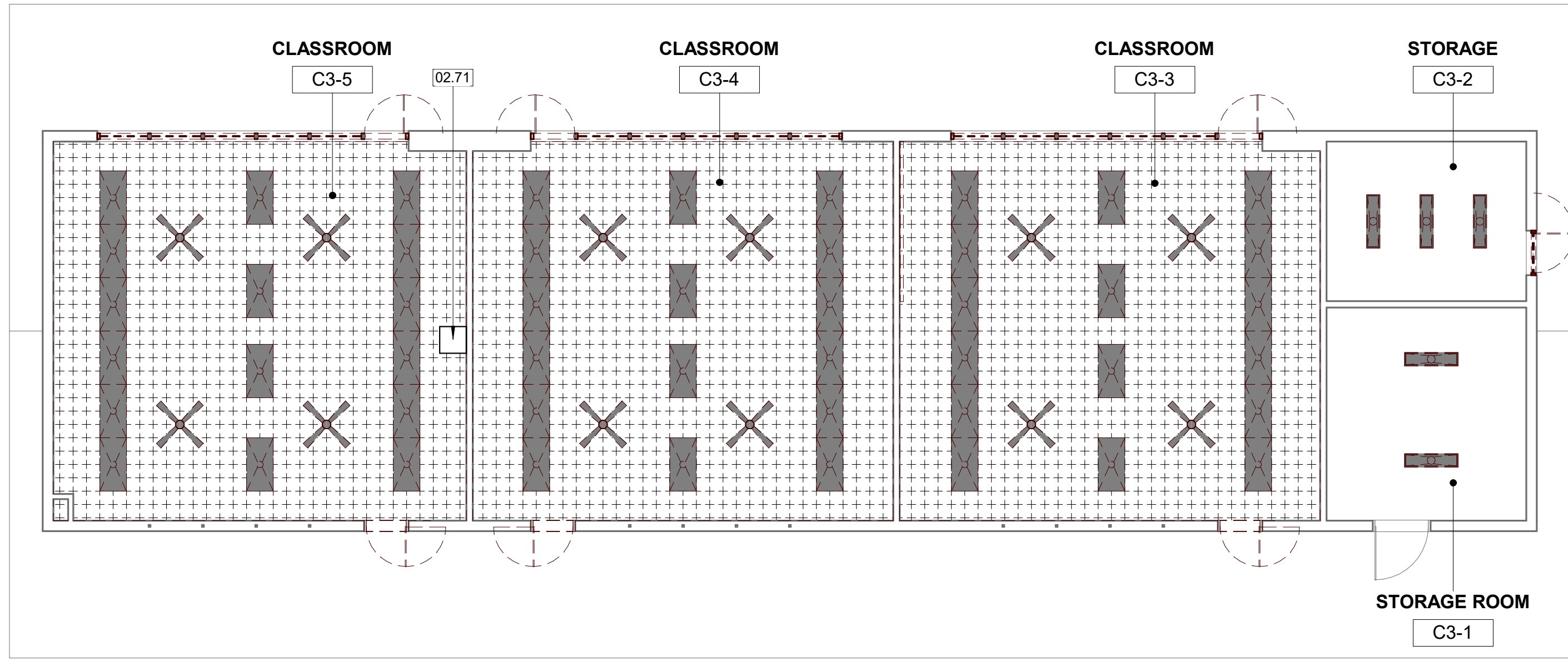
22 DEMO RCP BUILDING IA2
1/8" = 1'-0"



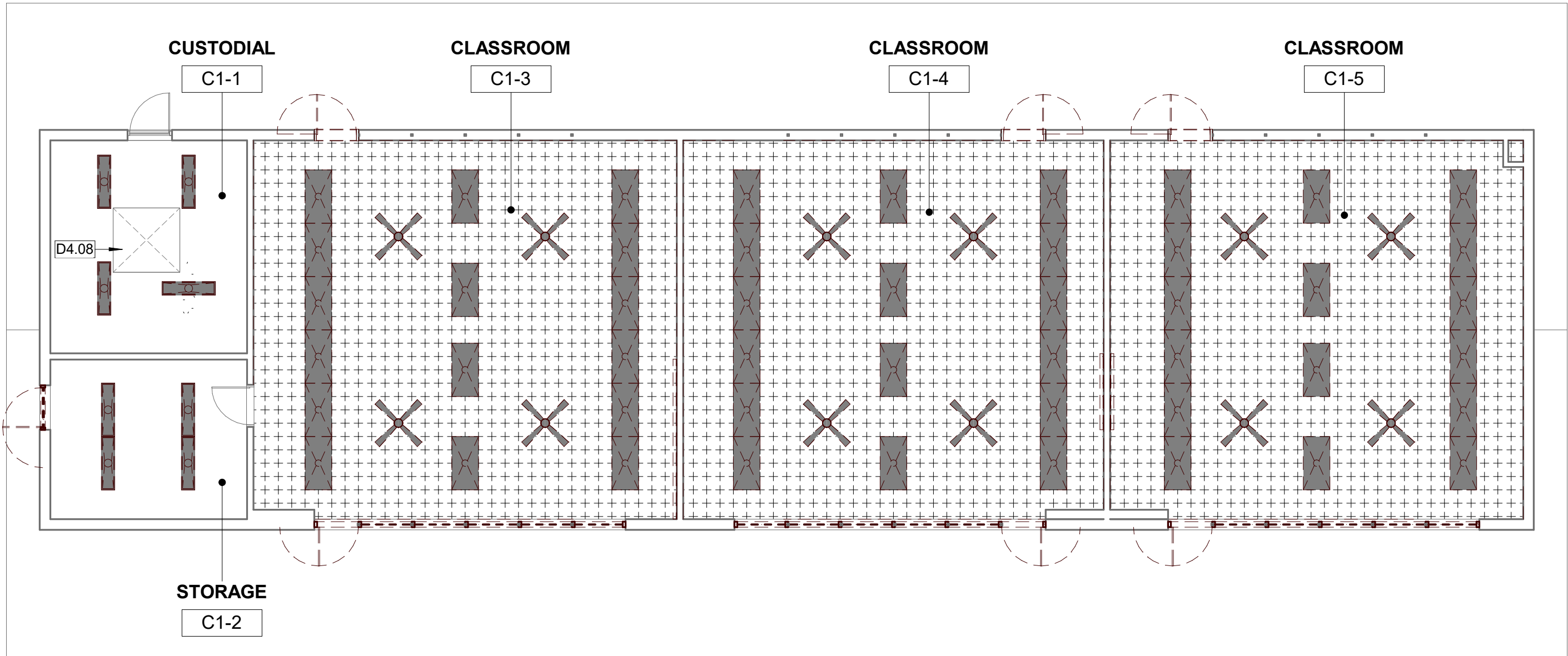
25 DEMO RCP BUILDING IA1
1/8" = 1'-0"



06 DEMO RCP BUILDING C5
1/8" = 1'-0"



08 DEMO RCP BUILDING C3
1/8" = 1'-0"



10 DEMO RCP BUILDING C1
1/8" = 1'-0"

DEMOLITION KEYED NOTES

#	Description
D4.07	REMOVE (E) CEILING MOUNTED DIVIDER FIN, PATCH & REPAIR
D4.08	REMOVE (E) SKYLIGHT AND ALL SUPPORT ASSEMBLY, INFILL AT ROOF AND CEILING TO MATCH ADJACENT, SEE DETAIL 16/501
D4.10	REMOVE (E) CEILING FAN AND RETURN TO DISTRICT
D4.11	REMOVE (E) PIPES AND CAP AT SOURCE, PATCH AND REPAIR AS REQ'D.

KEYNOTE LEGEND

#	Description
02.71	(E) IDF/MDF TO REMAIN, PROTECT IN PLACE, SEE ELECTRICAL DWGS.

DEMOLITION RCP LEGEND

	EXISTING PLASTER CEILING TO REMAIN, PATCH & REPAIR AS REQ'D TO RECEIVE (N) PAINT, TYP.
	EXISTING PLASTER CEILING TO BE REMOVED
	EXISTING NON-BEARING WALL TO BE REMOVED
	EXISTING 12"x12" CLUE UP / STAPLED ACOUSTIC TILE AND (E) SUBSTRATES TO BE REMOVED AND DISPOSED
	WHEN SHOWN SHADED, REMOVE (E) LIGHT FIXTURES, OTHERWISE, LIGHT FIXTURES ARE TO REMAIN.
	MECHANICAL GRILLES, REFER TO MECHANICAL DRAWINGS (REMOVE WHEN SHOWN DASHED)
	(E) CEILING FAN TO BE REMOVED AND DISPOSED.
	(E) ACCESS PANEL
	REMOVE (E) SKYLIGHT AND ALL SUPPORT ASSEMBLY, INFILL AT ROOF AND CEILING TO MATCH ADJACENT

NOTE:
1. REMOVE & DISPOSE OF (E) ROOF INSULATION ABOVE CEILING RAFTERS, WHERE OCCURS.

GENERAL DEMOLITION NOTES:

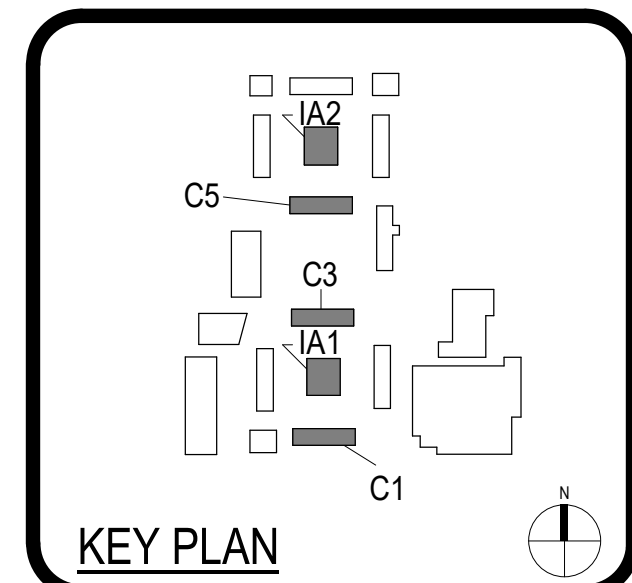
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- CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY POSSIBLE ASBESTOS CONTAINING MATERIALS DISCOVERED BEFORE PROCEEDING WITH WORK, PROTECT INTERIOR CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
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- MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR ASSOCIATED FIRE-RATINGS, INCLUDING BUT NOT LIMITED TO ALL ASSOCIATED EXISTING FIRE-RATED OPENINGS. ALL ASSOCIATED EXISTING FIRE-RATED PENETRATIONS, AND ALL ASSOCIATED EXISTING FIRE-RATED FIRESTOPPING CONDITIONS.
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- EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTING WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH.
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- WHERE EXISTING INTERIOR WALLS ARE REPLACED OR REMOVED, REMOVE MEPT SYSTEMS BACK TO PANEL, OR MECHANICAL ROOM, OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT, RELOCATE POWER PER MEPT DRAWINGS.
- PATCH FLOORS, WALLS CEILINGS WHICH REMAIN AT LOCATIONS WHERE PIPES, CONDUITS, ETC. ARE REMOVED AS REQUIRED TO MATCH EXISTING CONDITIONS OR TO RECEIVE NEW FINISHES.
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- DEMOLISH PORTION OF (E) WALL AS REQ'D TO PROVIDE ACCESSIBLE SIDE STRIKE CLEARANCE, RE-TO REMOVB, PLAN FOR EXTENT
- EXISTING HHV BOILERS TO BE DECOMMISSIONED, DISCONNECT EXISTING HHV PIPING AT BOILER ROOM, DRAIN PIPING SYSTEM AND CAP. EXISTING RADIATORS IN CLASSROOMS TO BE REMOVED. EXPOSED HHV PIPING IN CLASSROOMS SHALL BE REMOVED BACK TO WALL PENETRATION AND CAPPED INSIDE WALL ALL WALL OPENINGS, INCLUDING EXTERIOR WALL, SHALL BE SEALED AIR AND WATER TIGHT AND PAINTED TO MATCH EXISTING WALL COLOR. COORDINATE WITH DISTRICT ON REMOVAL OF EXISTING BOILER, PUMPS AND ASSOCIATED EQUIPMENT IN BOILER ROOM.
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- CONTRACTOR TO REMOVE AND REINSTALL ALL (E) CLOCKS, PROJECTORS, EMERGENCY EXIT SIGNAGE, SPEAKERS, AND OTHER CLASSROOM ACCESSORIES AT THE NEW APPROPRIATE HEIGHTS AND LOCATIONS PER PLANS.

GENERAL DEMOLITION NOTES:

- EXISTING GAS AND WATER PIPES, REMOVE AND REPLACE ANY RUSTED OR DETERIORATED PIPES, VALVES AND YARD BOXES TO REMAIN.
- RELOCATE / RE-ROUTE ANY ELECTRICAL CONDUITS AND LOW VOLTAGE RACEWAYS AND WIRING ABOVE & BELOW CEILING TO ACCOMMODATE NEW WORK.
- RELOCATE / RE-ROUTE ANY VENT PIPES INTERFERING WITH NEW WORK.
- REMOVE AND DISPOSE OLD CLOCKS AND SPEAKERS NO LONGER IN USE.
- REMOVE AND DISPOSE ELECTRICAL CABLE AND DEVICES NOT IN USE.
- REMOVE AND DISPOSE FAU HEATING UNITS IN EACH ROOM AND ALL ASSOCIATED DUCTWORK, REGISTERS, CONDUITS AND WIRING.
- REMOVE PROJECTORS IN WORKROOM AND LIBRARY ROOMS, RETURN TO DISTRICT.



ARCHITECT	ANAHEIM 2400 E. Katella Avenue, Suite 950 Anaheim, CA 92806 P 949-546-5000	PBK Architects, Inc. PBK.com
PROJECT ADDRESS: 14171 NEWLAND ST. WESTMINSTER, CA 92683		
DSA SUBMITTAL		
DSA FILE NO. 30-43		



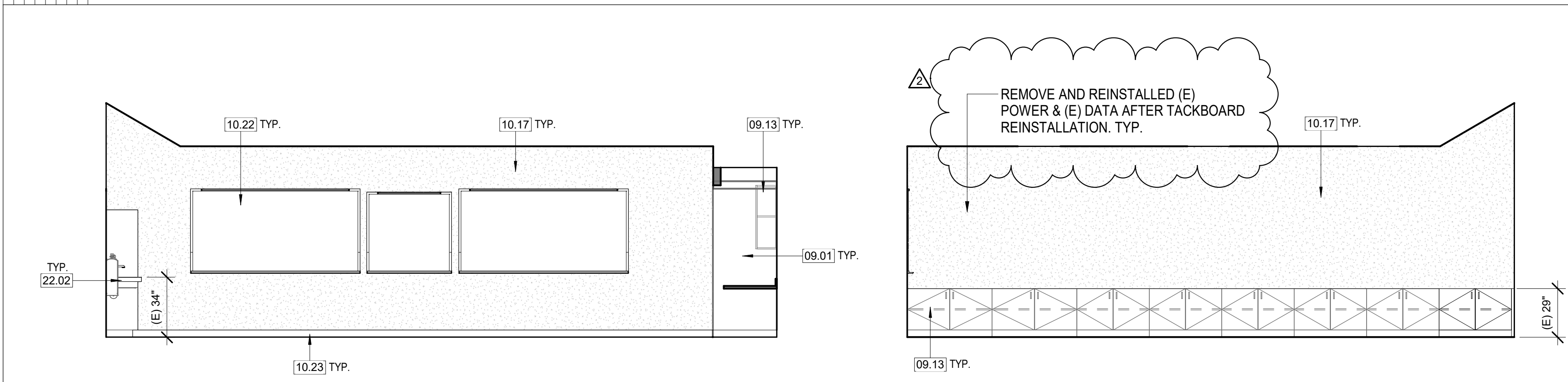
Consultant

Architect

CLIENT WESTMINSTER SCHOOL DISTRICT		
DATE 03/31/23		PROJECT NUMBER 220526
REVISIONS	Description	Date
No. 2	ADDENDUM 02	02/07/2024

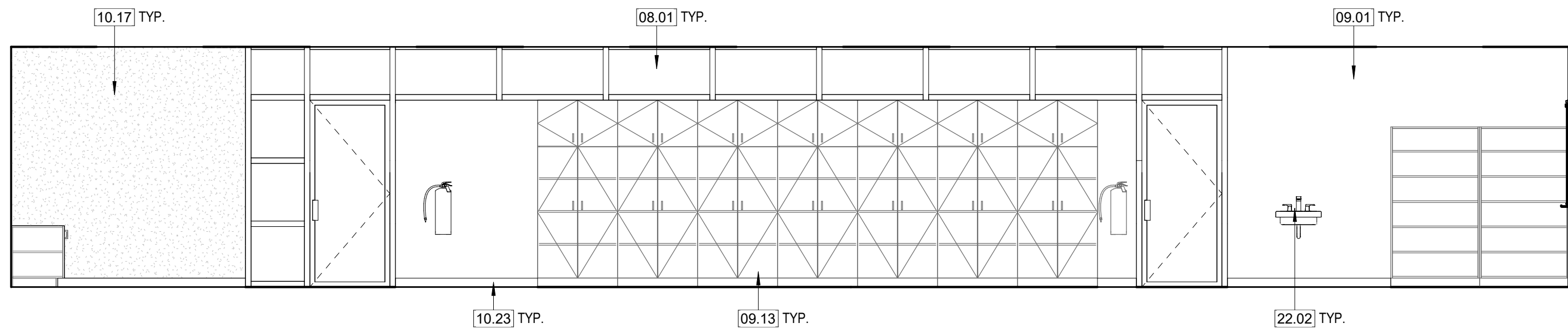
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DEMO RCP BLDG C1, C3, C5, IA1 & IA2		

AD2.02

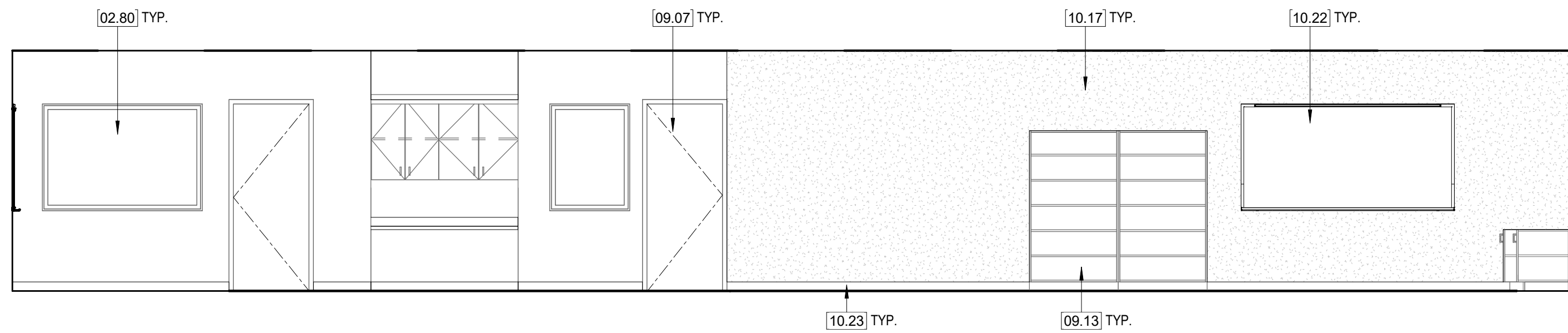


18B CLASSROOM IA1-9 - EAST ELEVATION
1/4" = 1'-0"

18D CLASSROOM IA1-9 - WEST ELEVATION
1/4" = 1'-0"

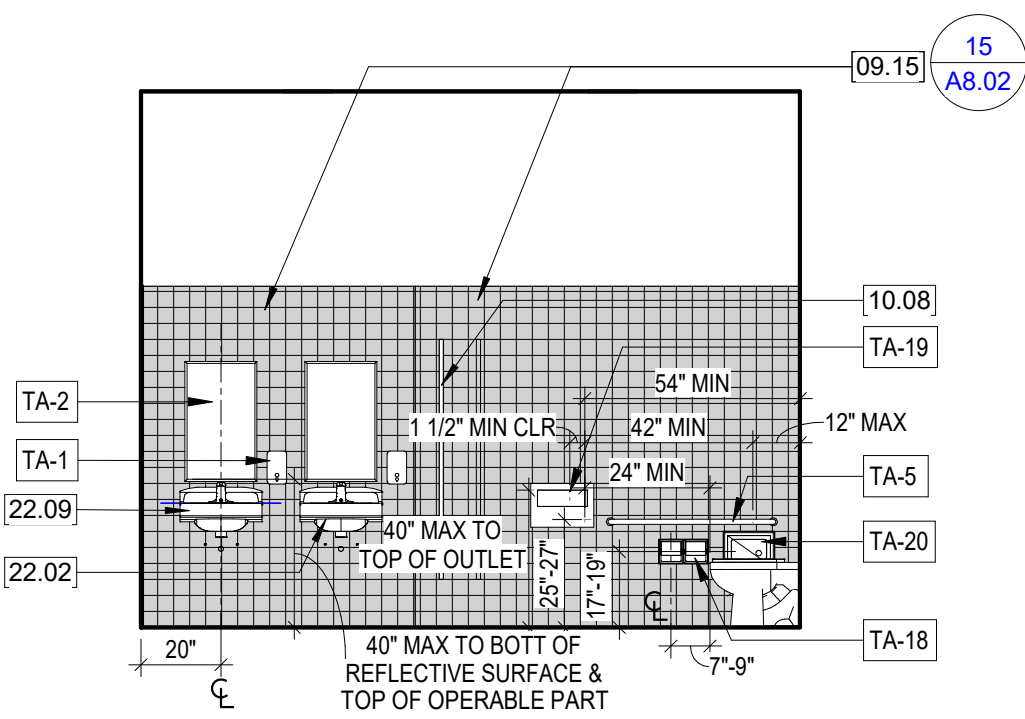


18A CLASSROOM IA1-9 - NORTH ELEVATION
1/4" = 1'-0"

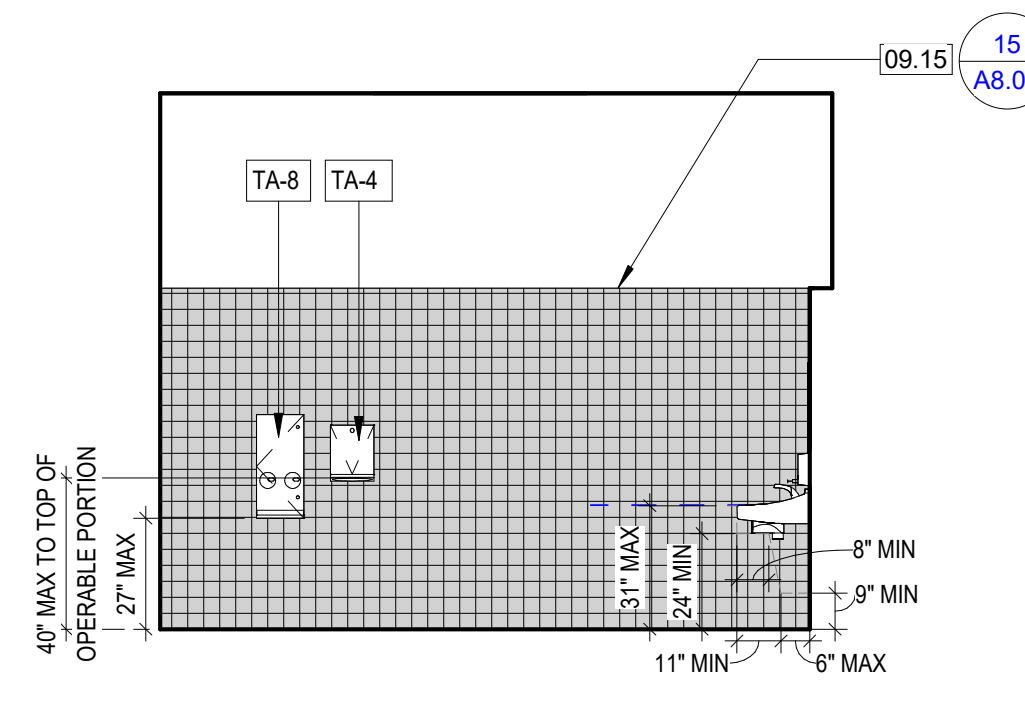


18C CLASSROOM IA1-9 - SOUTH ELEVATION
1/4" = 1'-0"

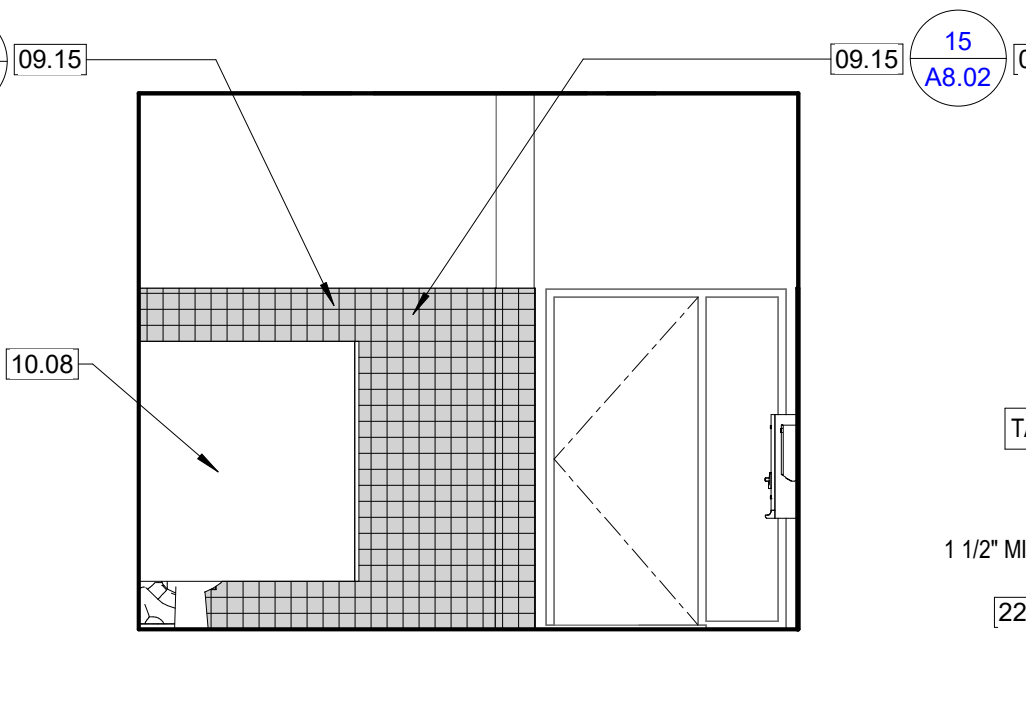
18 INTERIOR ELEVATIONS - CLASSROOM IA1-9
1/4" = 1'-0"



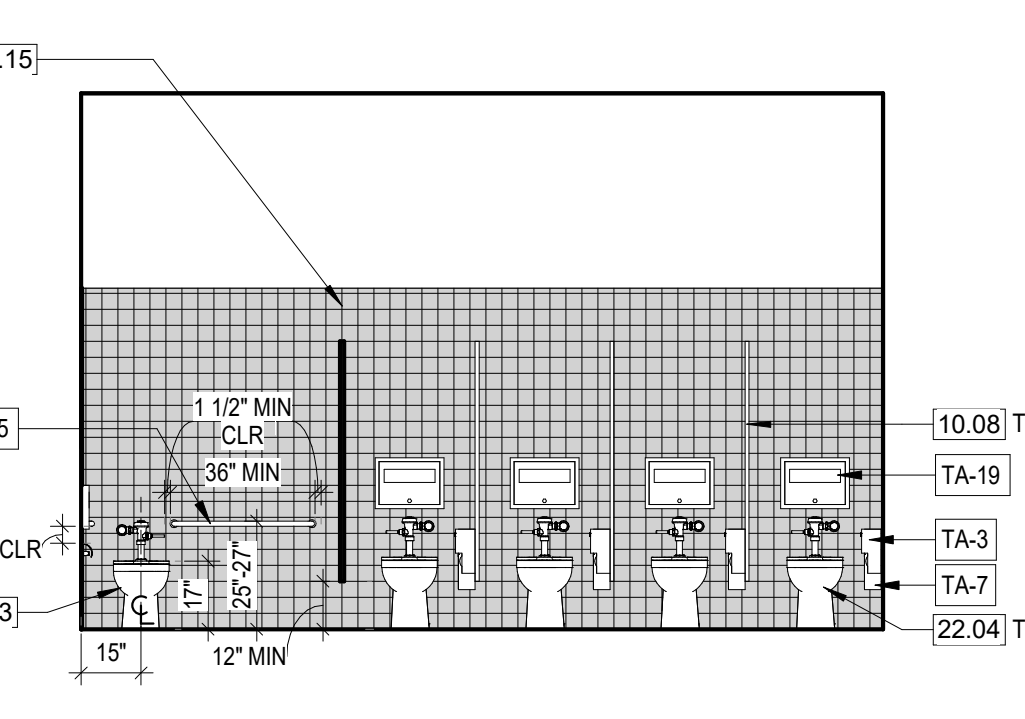
12D WEST
1/4" = 1'-0"



12C SOUTH
1/4" = 1'-0"

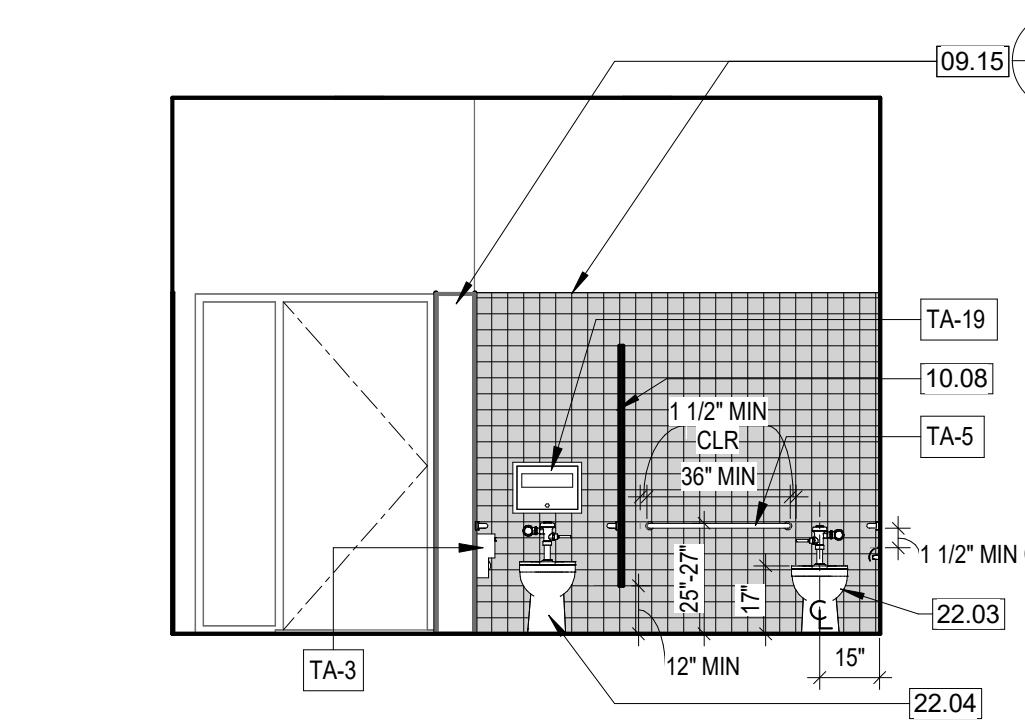


12B EAST
1/4" = 1'-0"

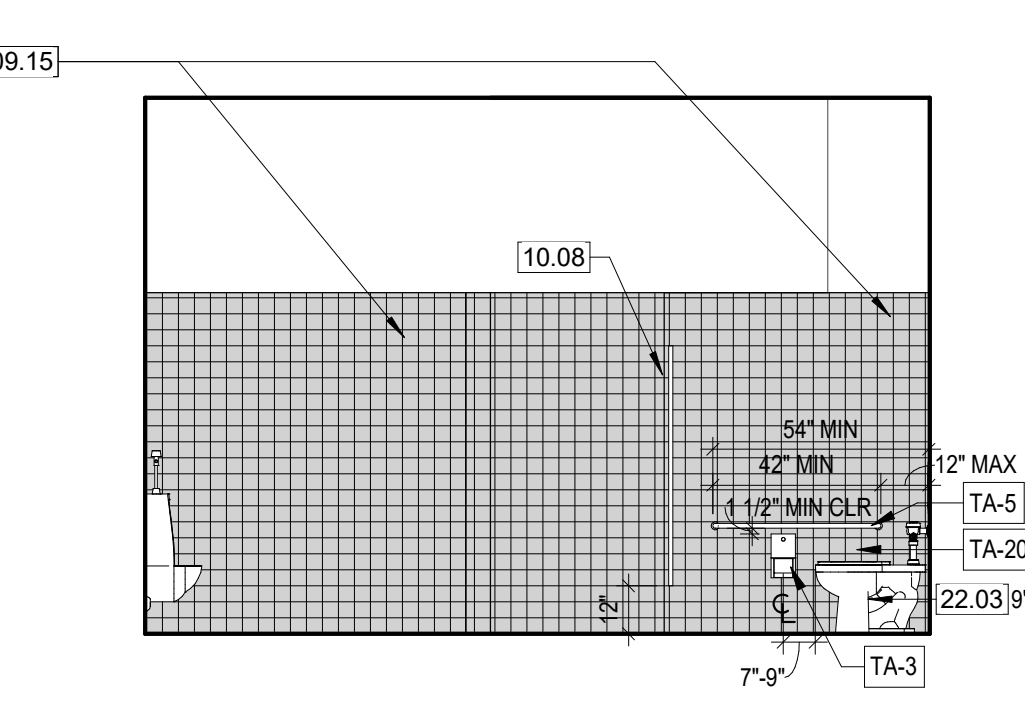


12A NORTH
1/4" = 1'-0"

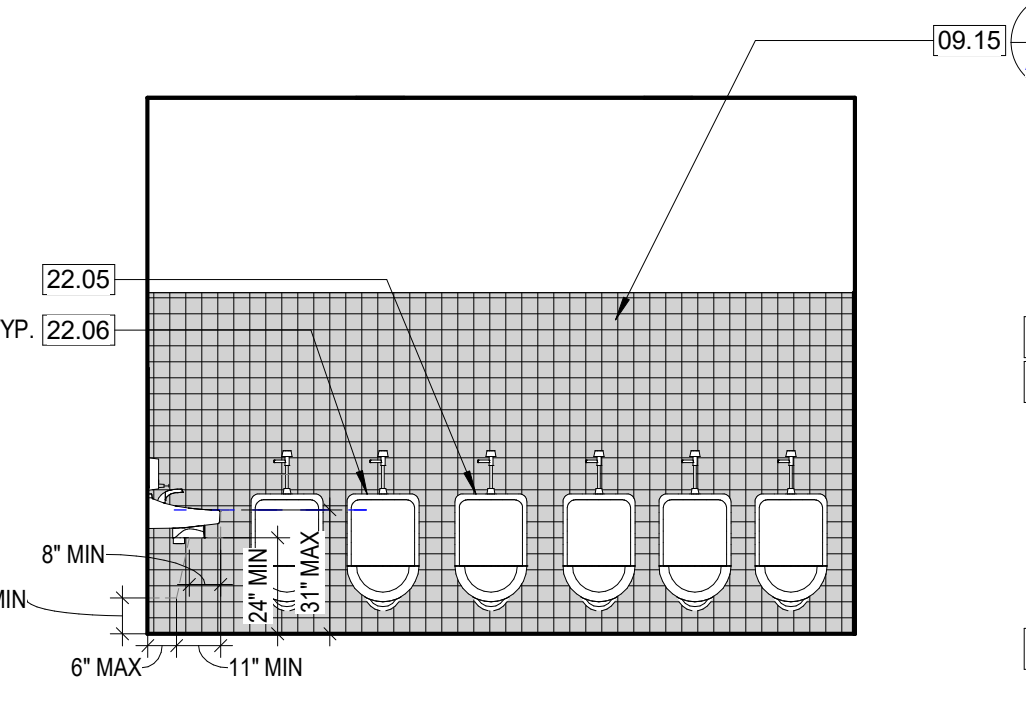
12 ELEVATIONS - C6-1 GIRLS' RR (AGES 9-12)
1/4" = 1'-0"



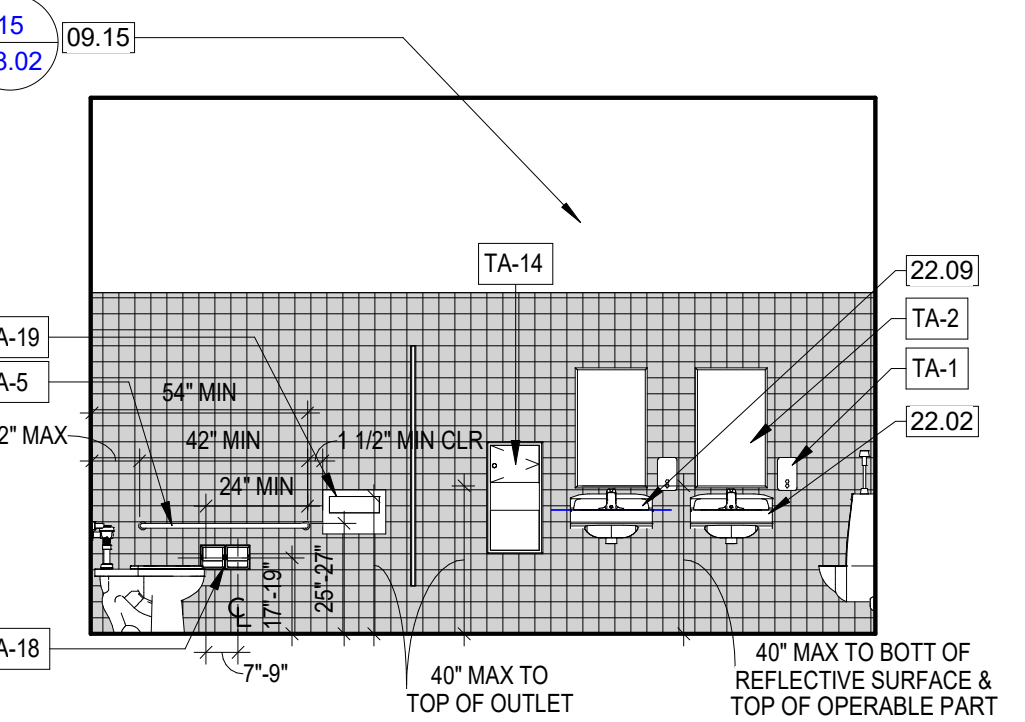
2D WEST
1/4" = 1'-0"



2C SOUTH
1/4" = 1'-0"

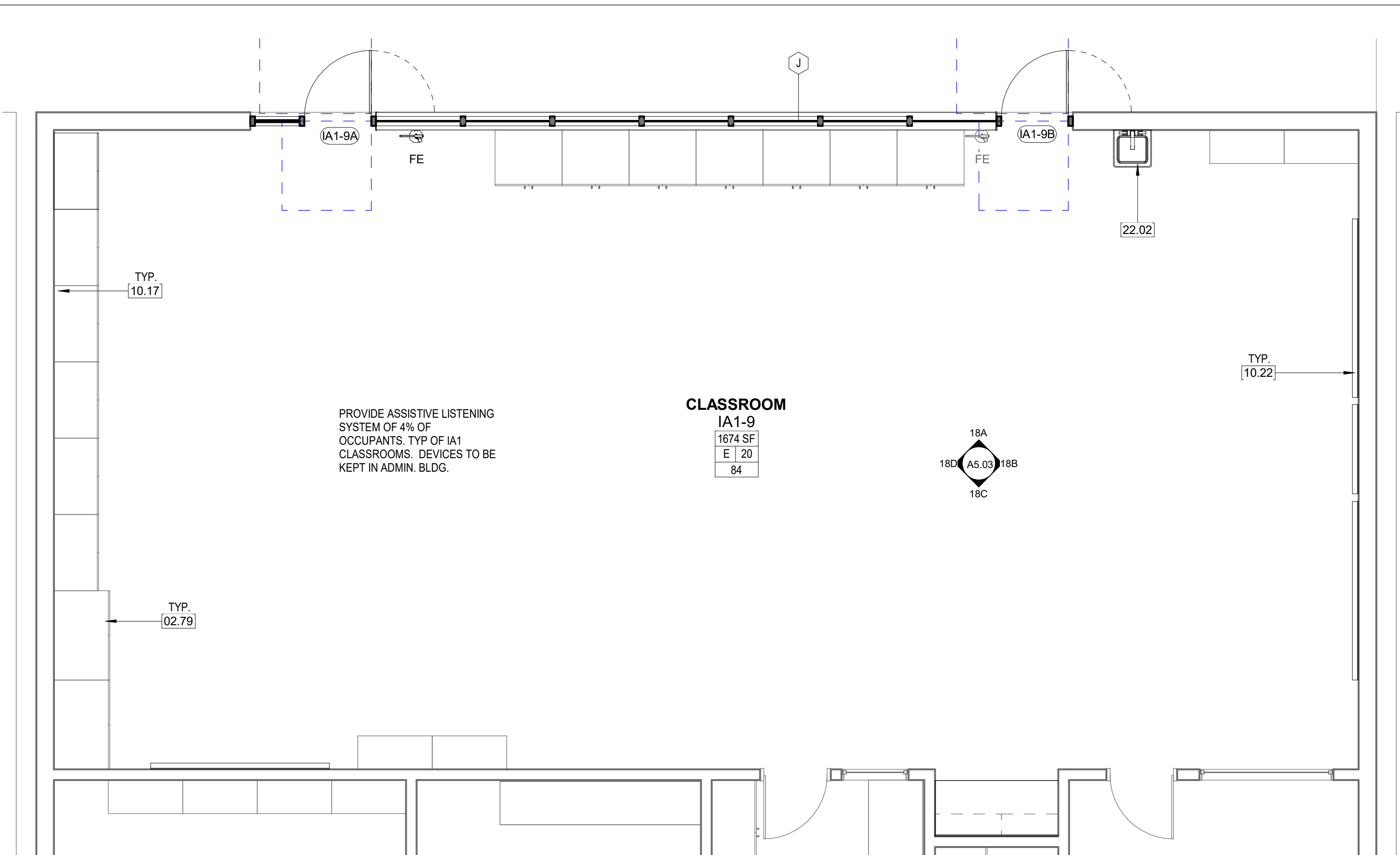


2B EAST
1/4" = 1'-0"



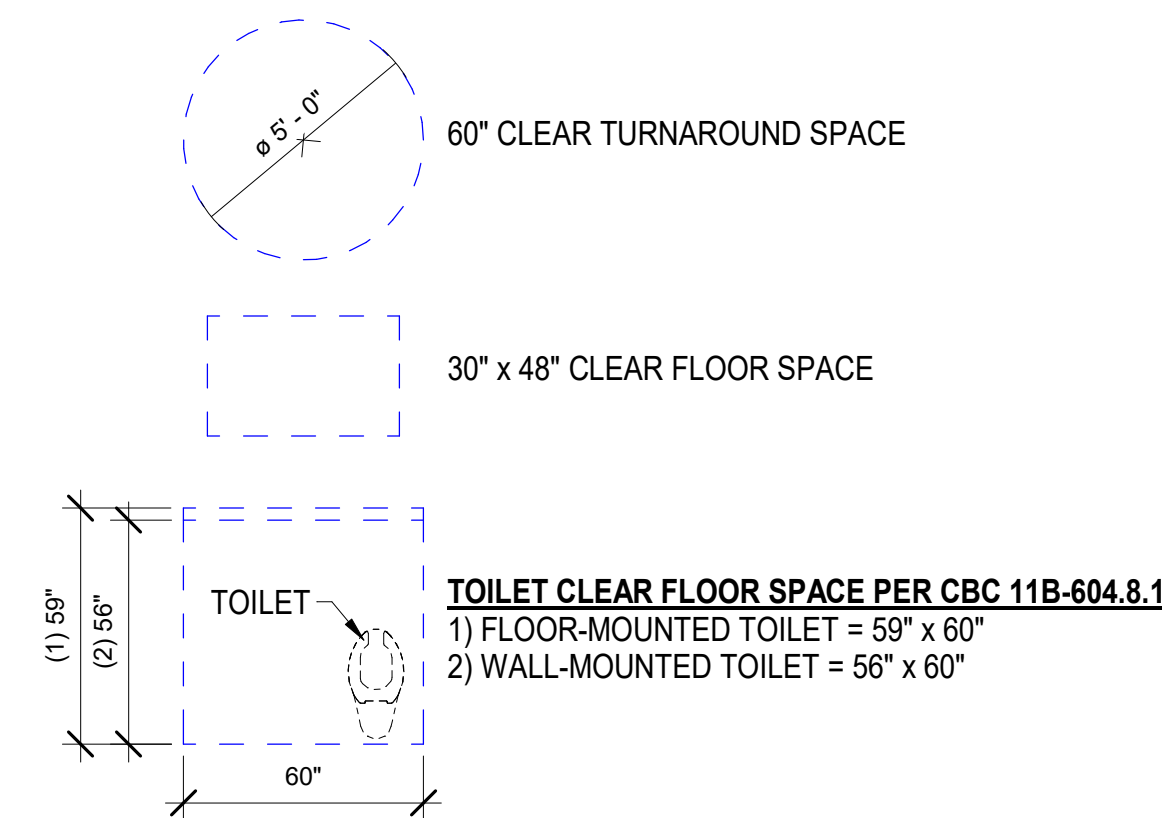
2A NORTH
1/4" = 1'-0"

6 ELEVATIONS - C8-1 BOYS' RR (AGES 9-12)
1/4" = 1'-0"



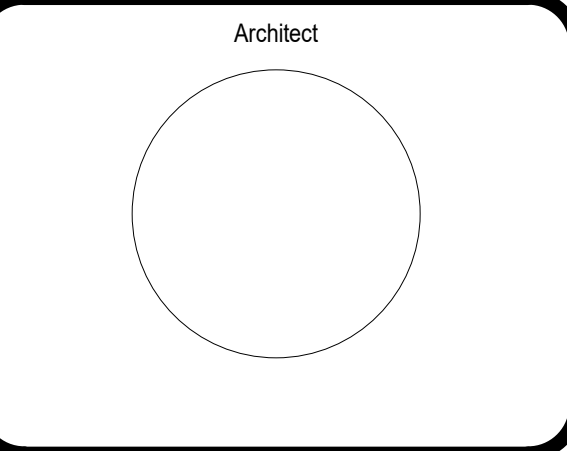
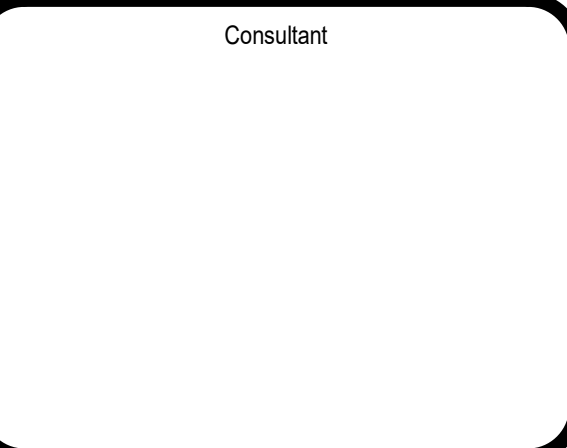
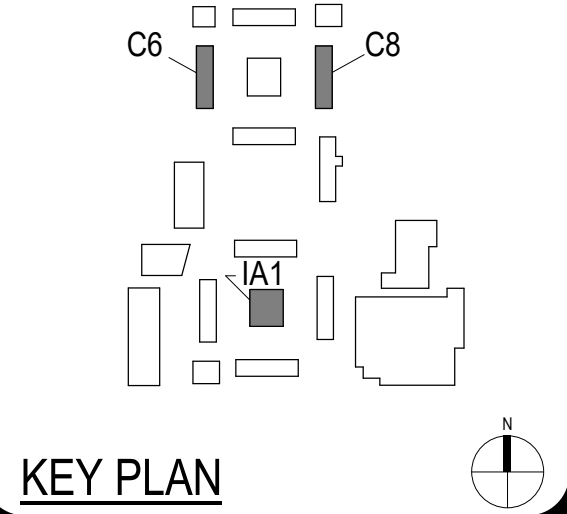
15 ENLARGED CLASSROOM PLAN - ROOM IA1-9
1/4" = 1'-0"

RESTROOM LEGEND



KEYNOTE LEGEND

#	Description
02.79	(E) CASEWORK TO REMAIN, TO RE-PAINT TYP.
02.80	(E) WINDOW TO REMAIN.
08.01	(N) ALUMINUM FRAME & GLAZING WINDOW SYSTEM SEE WINDOWS FRAMING ELEVATION A8.02, PER ALUMINUM-FRAMED STOREFRONT & ALUMINUM WINDOWS & GLAZING SPEC SECTION
09.01	(N) INTERIOR PAINT FINISH, PER DISTRICT REQUIREMENTS
09.05	(N) WALL TILE @ (E) WALLS TO REPLACE (E) TILE, SEE DETAIL CALLOUT
09.06	(N) FLOOR TILE TO REPLACE (E) FLOOR TILE, SEE DETAIL CALLOUT
09.07	(E) DOOR TO REMAIN AND REPAINT, PER DISTRICT REQUIREMENTS
09.13	(E) CASEWORK TO REMAIN, REPAINT PER DISTRICT STANDARDS, COLOR TO BE CONFIRMED BY ARCHITECT AND CLIENT
09.15	(N) WALL TILE, SEE DETAIL CALLOUT
10.08	(N) SOLID PLASTIC TOILET PARTITION
10.16	(N) TACTILE RESTROOM DOOR & WALL SIGN, SEE DETAIL CALLOUT
10.17	(N) TACKABLE SURFACE, TO (E) WALL, SEE DETAIL 6/A8.02
10.22	(N) MARKER BOARD, SEE DETAIL 5/A8.02
10.23	(N) 8" RUBBER BASE
12.04	OWNER-FURNISHED FREE-STANDING TRASH RECEPTACLE
22.02	(N) WALL-MOUNTED LAVATORY
22.03	(N) FLOOR-MOUNTED ACCESSIBLE WATER CLOSET
22.04	(N) FLOOR-MOUNTED WATER CLOSET
22.05	(N) ACCESSIBLE WALL-MOUNTED URINAL
22.06	(N) WALL-MOUNTED URINAL
22.09	(N) ACCESSIBLE WALL-MOUNTED LAVATORY, SEE 9/ & 16/A8.03.



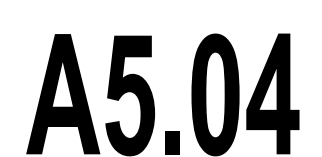
CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE		PROJECT NUMBER
03/31/23		220526
REVISIONS		
No.	Description	Date
2	ADDENDUM 02	02/07/2024

DSA SUBMITTAL

ENLARGED RR PLANS & INTERIOR ELEVATIONS



NOTE: DIMENSIONS ARE TO THE NEAREST WHOLE NUMBER, CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION



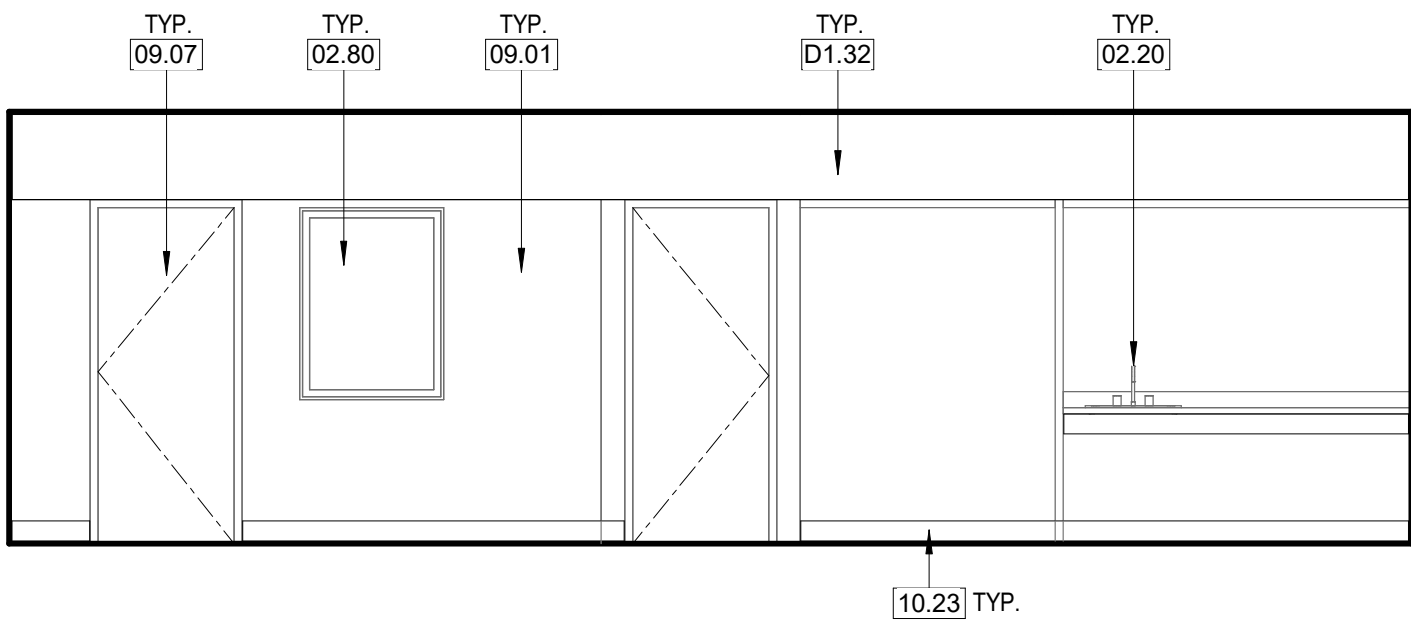
0" 1"

DEMOLITION KEYED NOTES

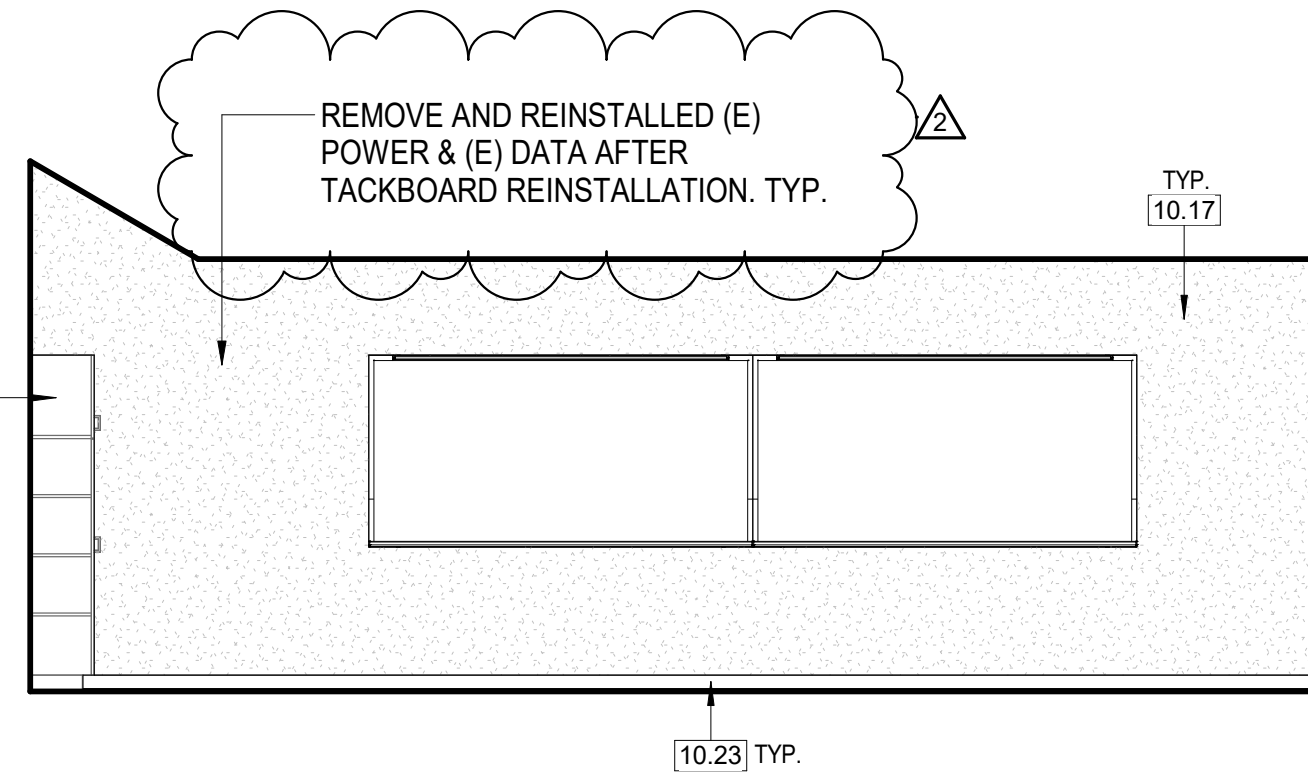
#	Description
D1.32	REMOVE (E) 12"X12" GLUE-ON ACT TILE AND SUBSTRATE. REPLACE WITH (N) DRYWALL, WHERE OCCURS.

CONSTRUCTION KEYED NOTES

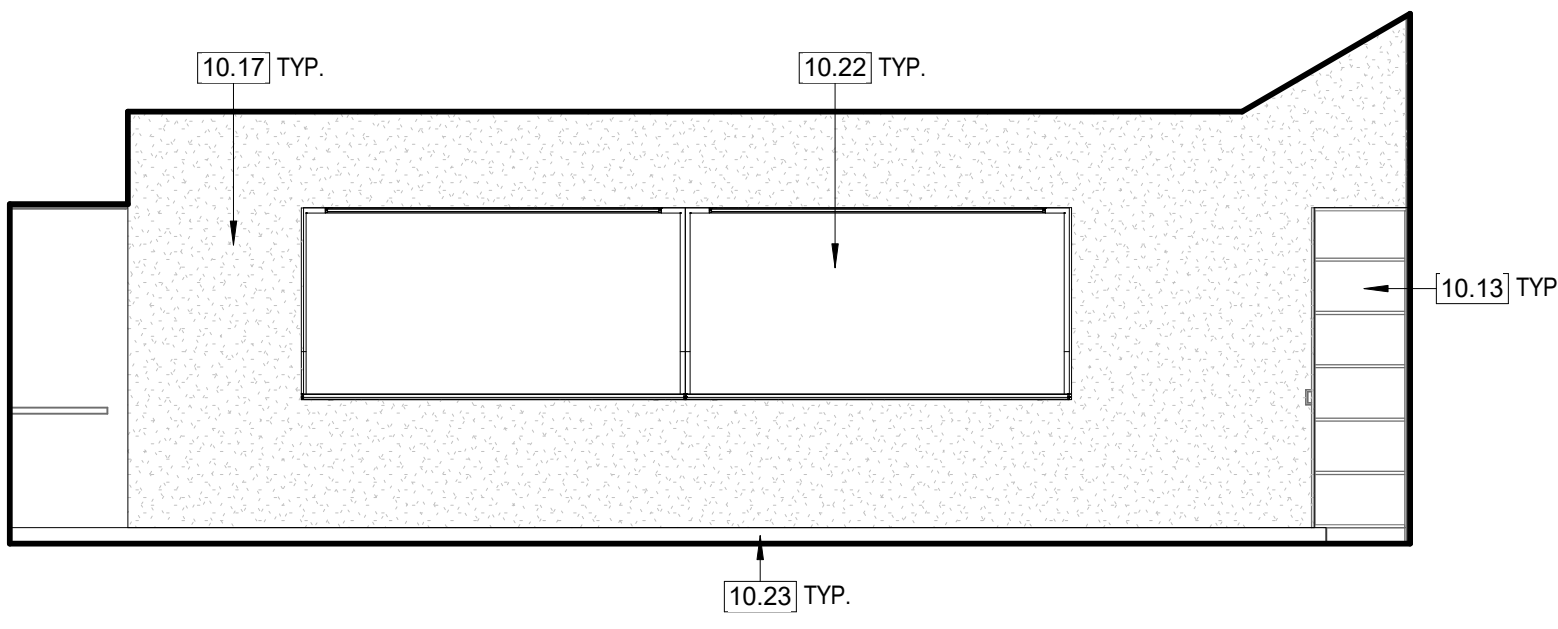
#	Description
02.20	(E) LAVATORY TO REMAIN
02.80	(E) WINDOW TO REMAIN.
08.01	(N) ALUMINUM FRAME & GLAZING WINDOW SYSTEM.SEE WINDOW'S FRAMING ELEVATION A5.02. PER ALUMINUM-FRAMED STOREFRONT & ALUMINUM WINDOWS & GLAZING SPEC SECTION
09.01	(N) INTERIOR PAINT FINISH, PER DISTRICT REQUIREMENTS
09.07	(E) DOOR TO TO REMAIN AND REPAINT. PER DISTRICT REQUIREMENTS
09.13	(E) CASEWORK TO REMAIN. REPAINT PER DISTRICT STANDARDS, COLOR TO BE CONFIRMED BY ARCHITECT AND CLIENT
10.13	(N) SURFACE MOUNT TOILET PAPER DISPENSER, 4" MAX PROTRUSION
10.17	(N) TACKABLE SURFACE, TO (E) WALL. SEE DETAIL 6/A8.02
10.22	(N) MARKER BOARD. SEE DETAIL 5/A8.02
10.23	(N) 6" RUBBER BASE



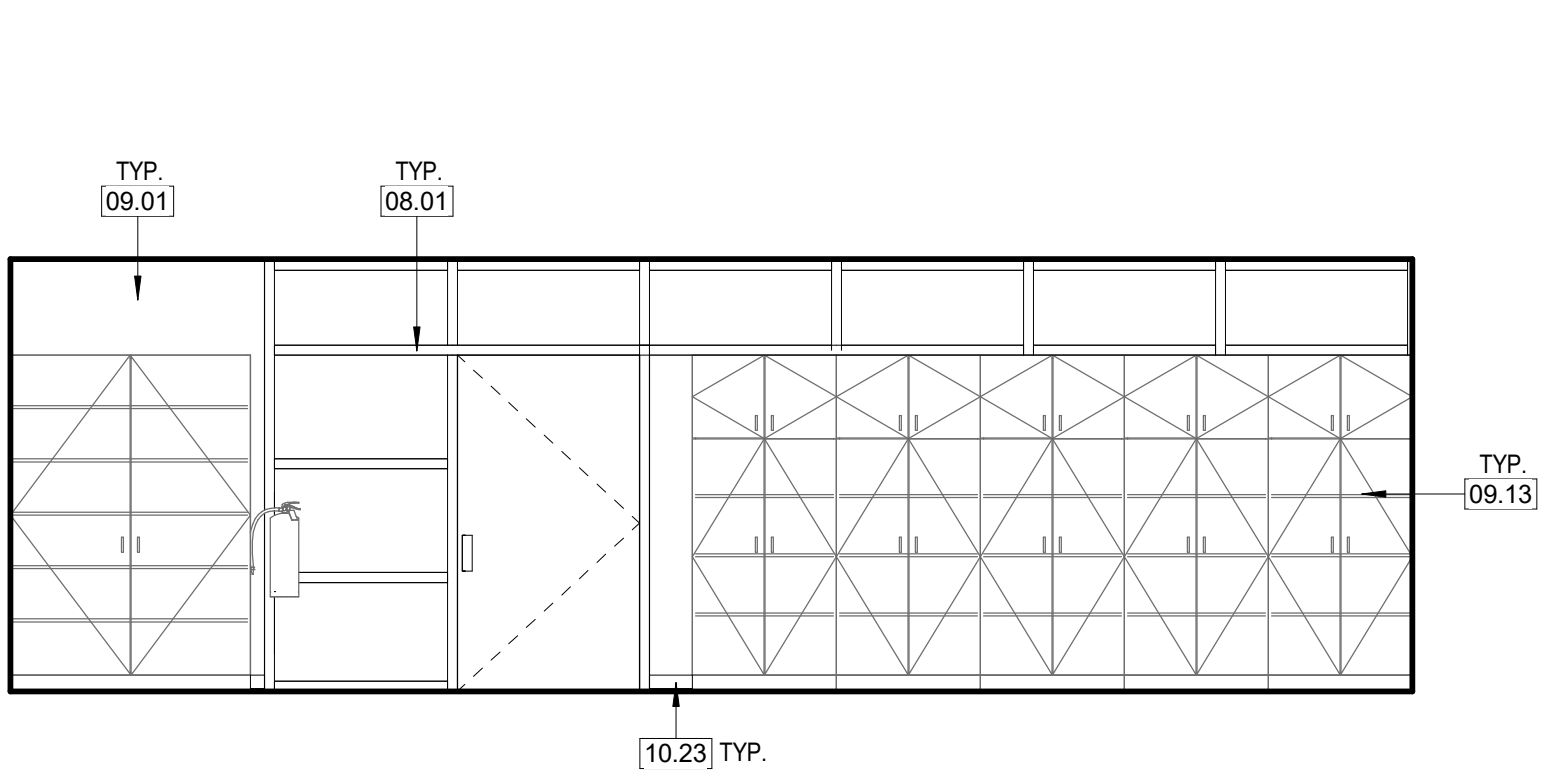
18A INTERIOR ELEVATION - IA2-2 - NORTH



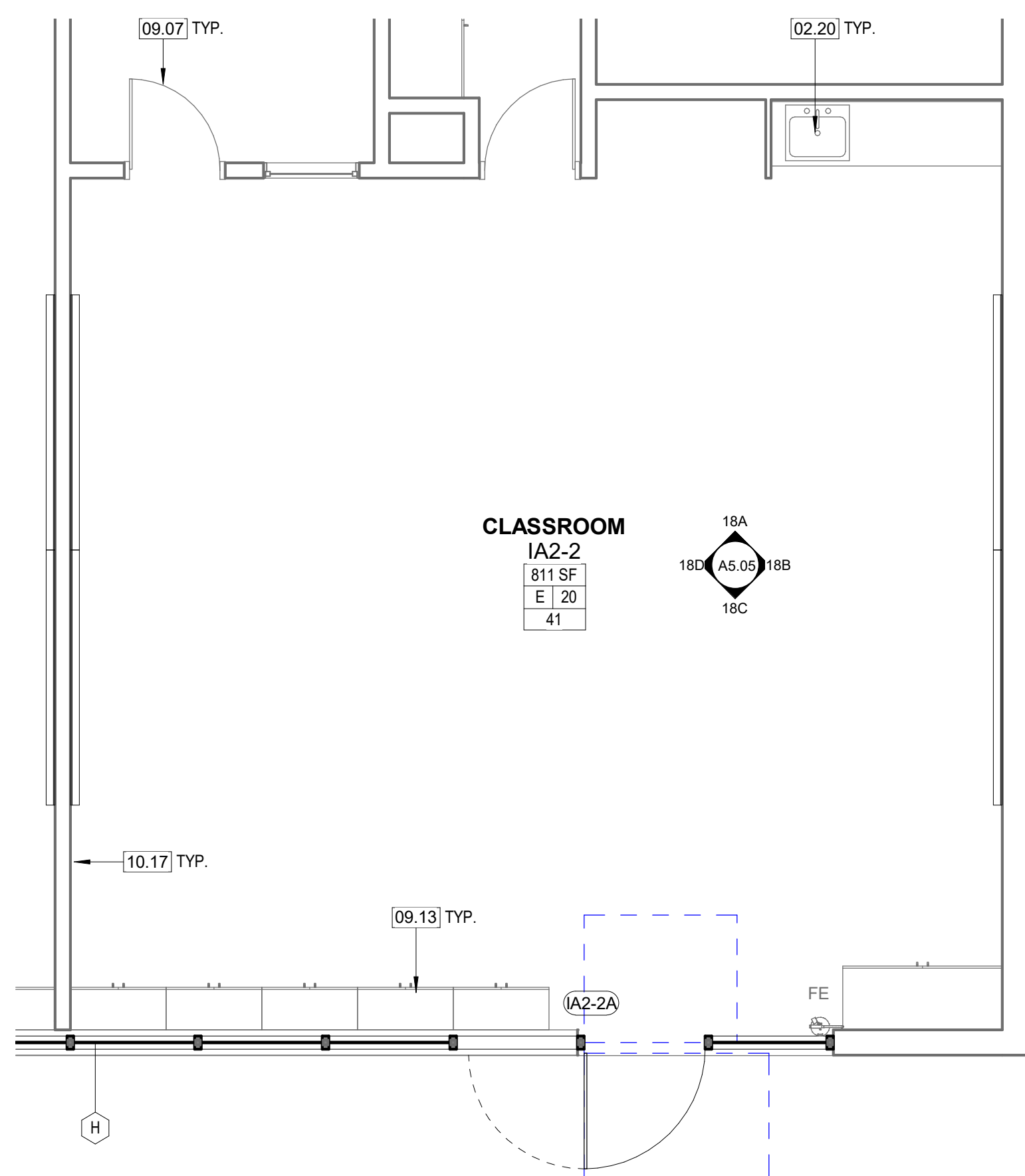
18D INTERIOR ELEVATION - IA2-2 - WEST



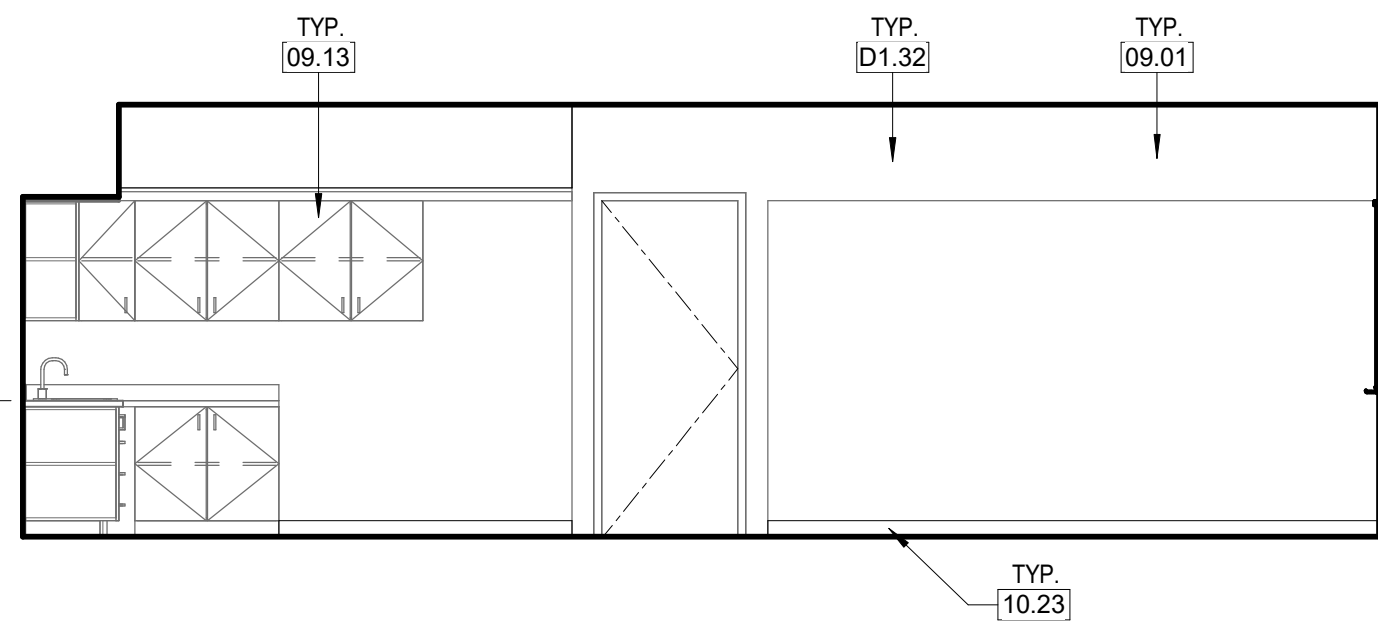
18B INTERIOR ELEVATION - IA2-2 - EAST



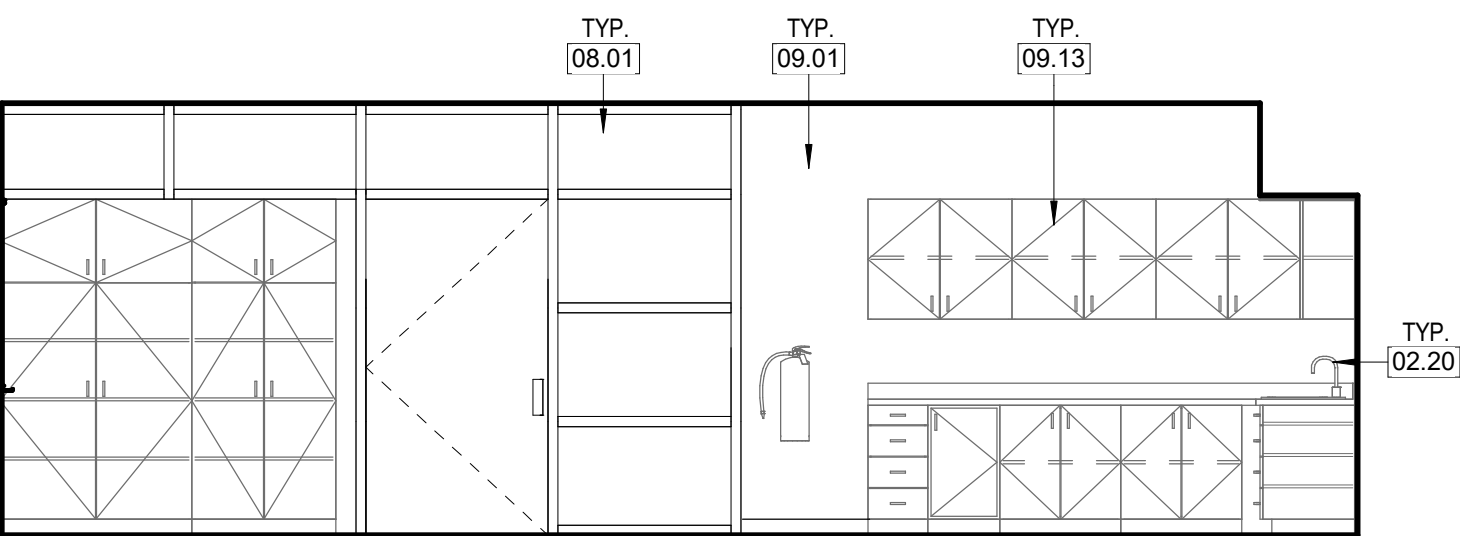
18C INTERIOR ELEVATION - IA2-2 - SOUTH



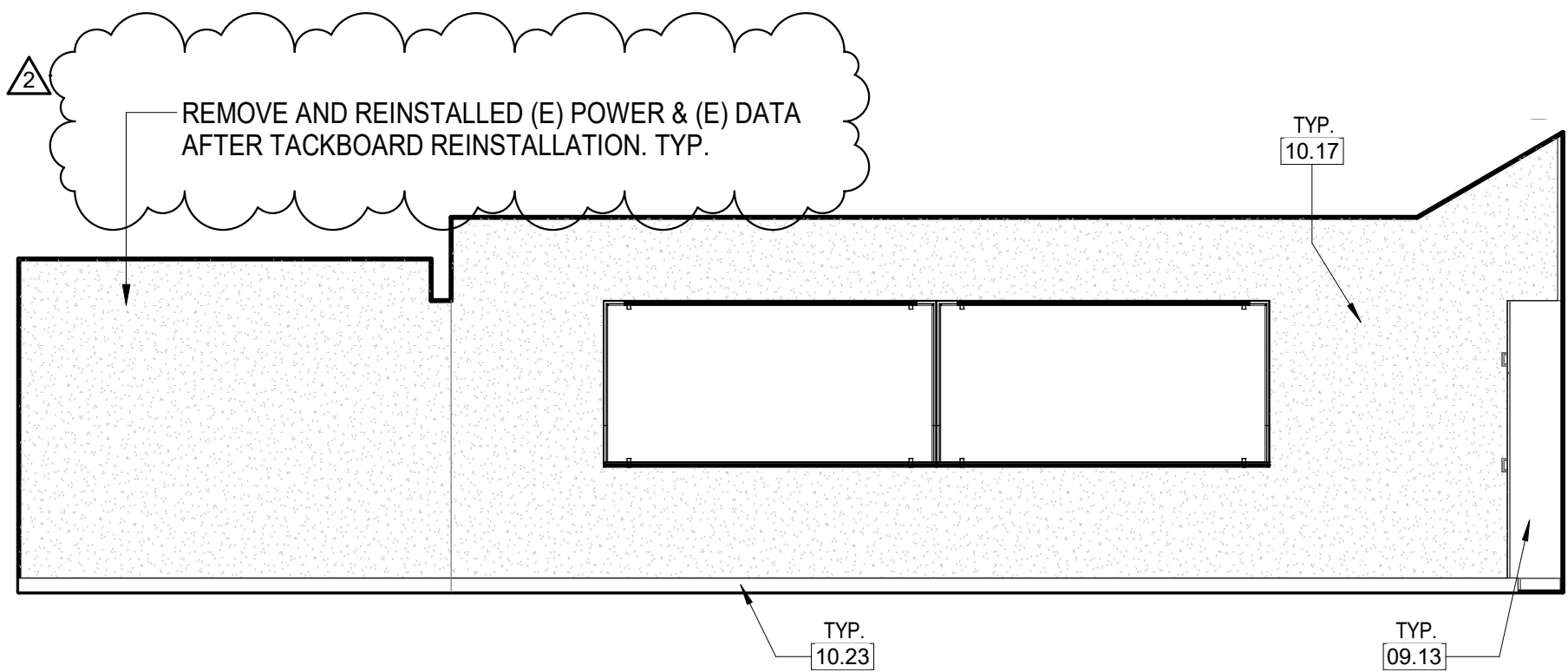
14 ENLARGED TYPICAL CLASSROOM PLAN - IA2-2



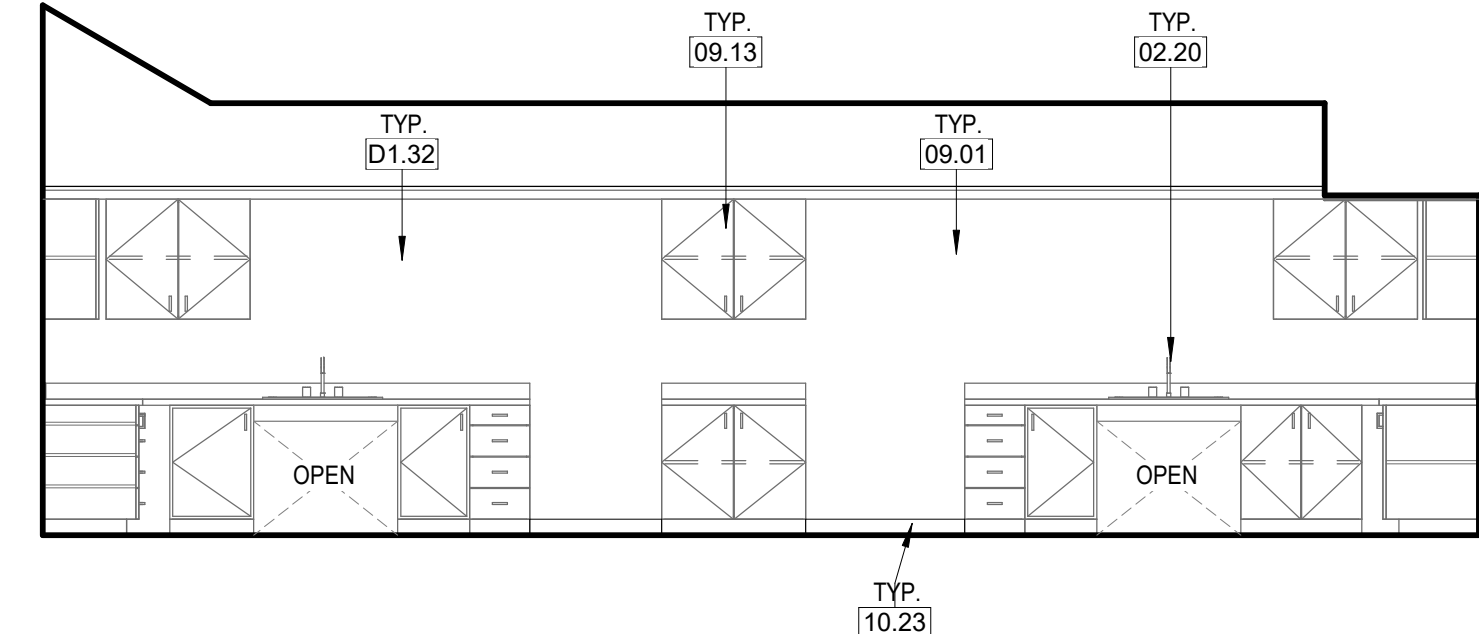
6A INTERIOR ELEVATION - IA2-1 - NORTH



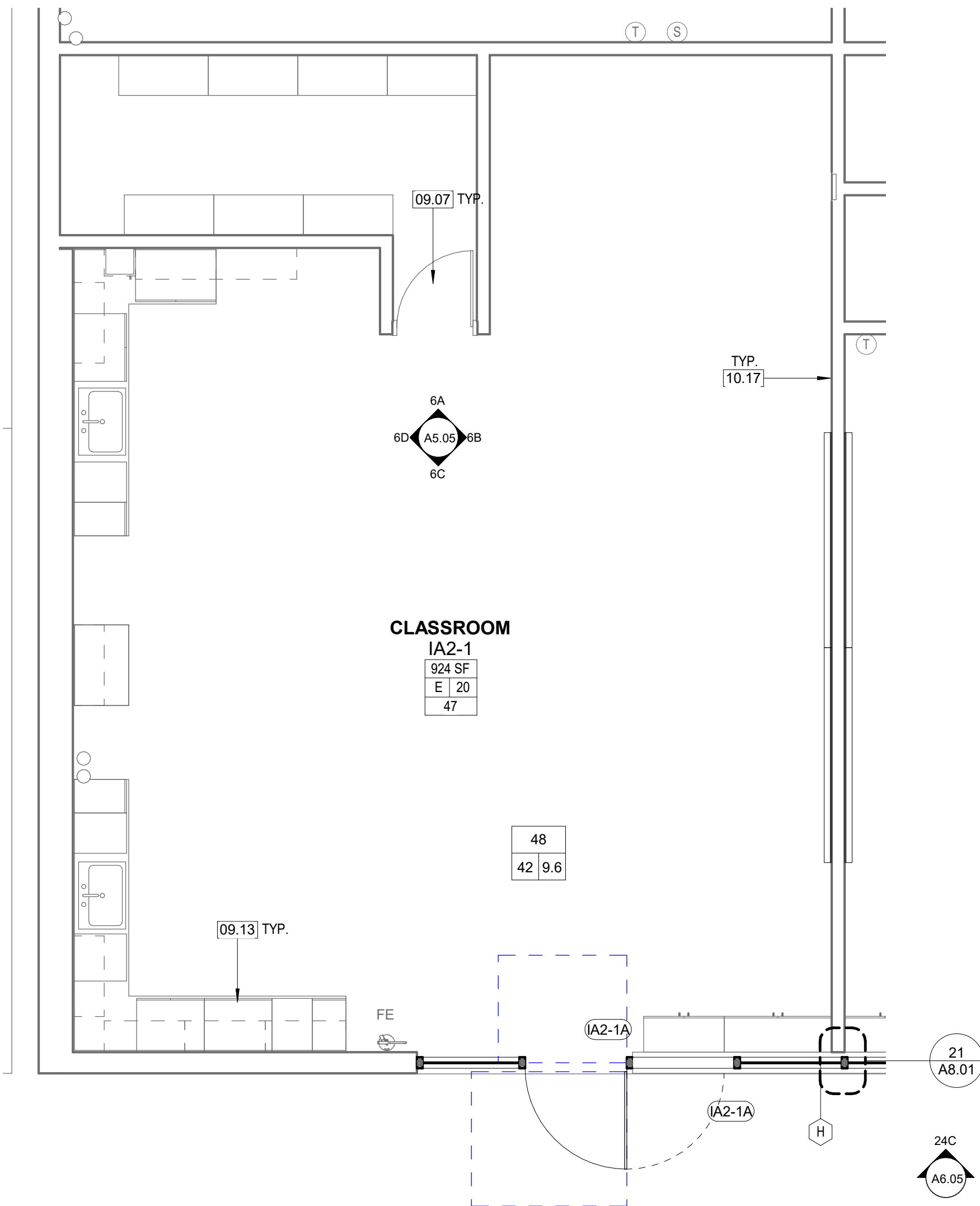
6C INTERIOR ELEVATION - IA2-1 - SOUTH



6B INTERIOR ELEVATION - IA2-1 - EAST



6D INTERIOR ELEVATION - IA2-1 - WEST



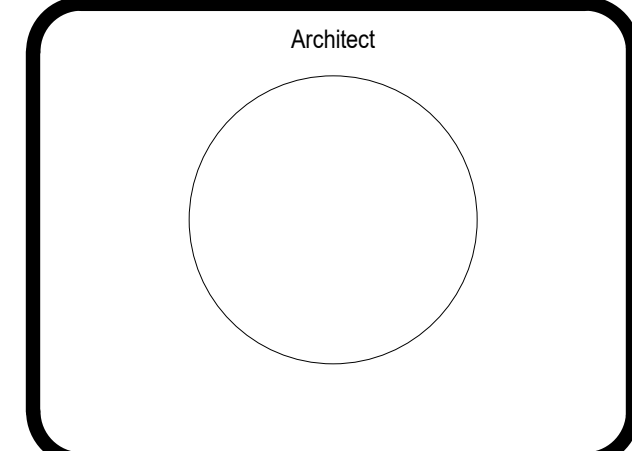
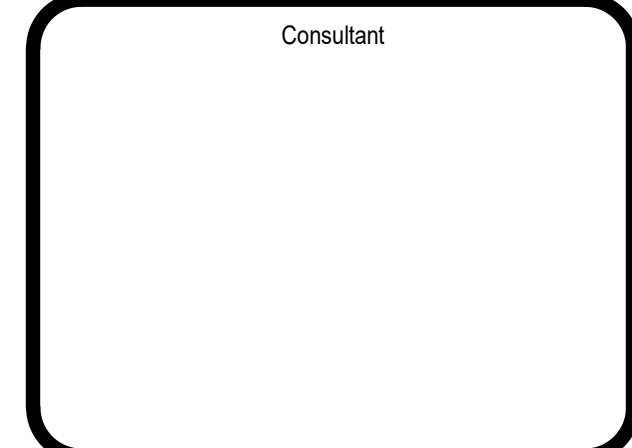
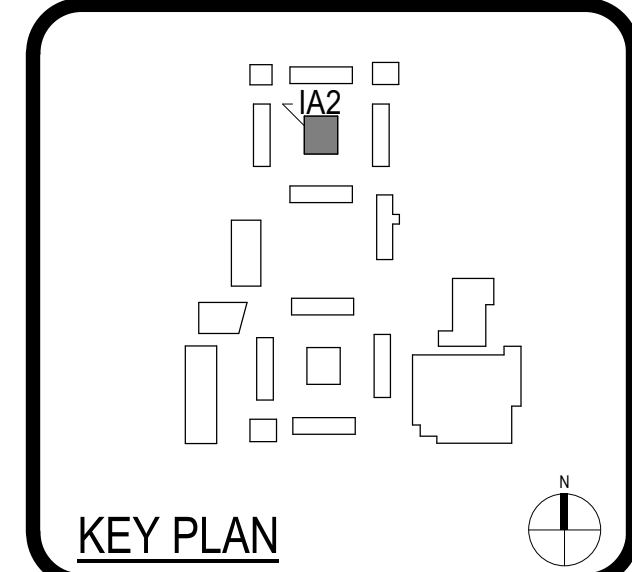
5 ENLARGED TYPICAL CLASSROOM PLAN - IA2-1



ARCHITECT ANAHEIM PBK Architects, Inc.
2400 E. Katella Avenue, Suite 950
Anaheim, CA 92806
P 949-546-5000

WARNER MIDDLE SCHOOL - MODERNIZATION PROJECT

PROJECT ADDRESS:
14171 NEWLAND ST
WESTMINSTER, CA 92683
DSA SUBMITTAL
DSA APPL. NO. 04-121854 DSA FILE NO. 30-43

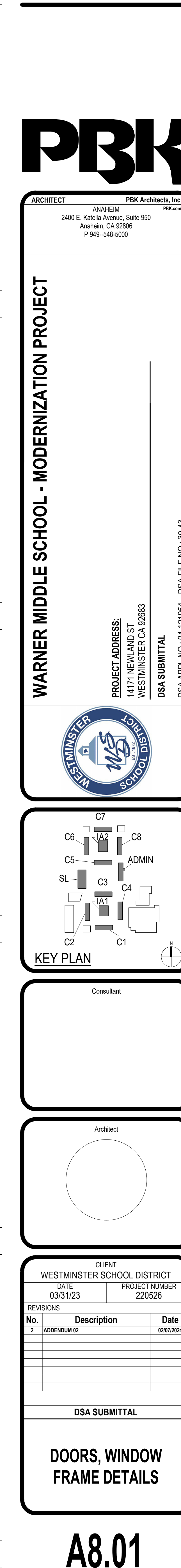


CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
03/31/23	220526	
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No.	Description	Date
2	ADDENDUM 02	02/07/2024

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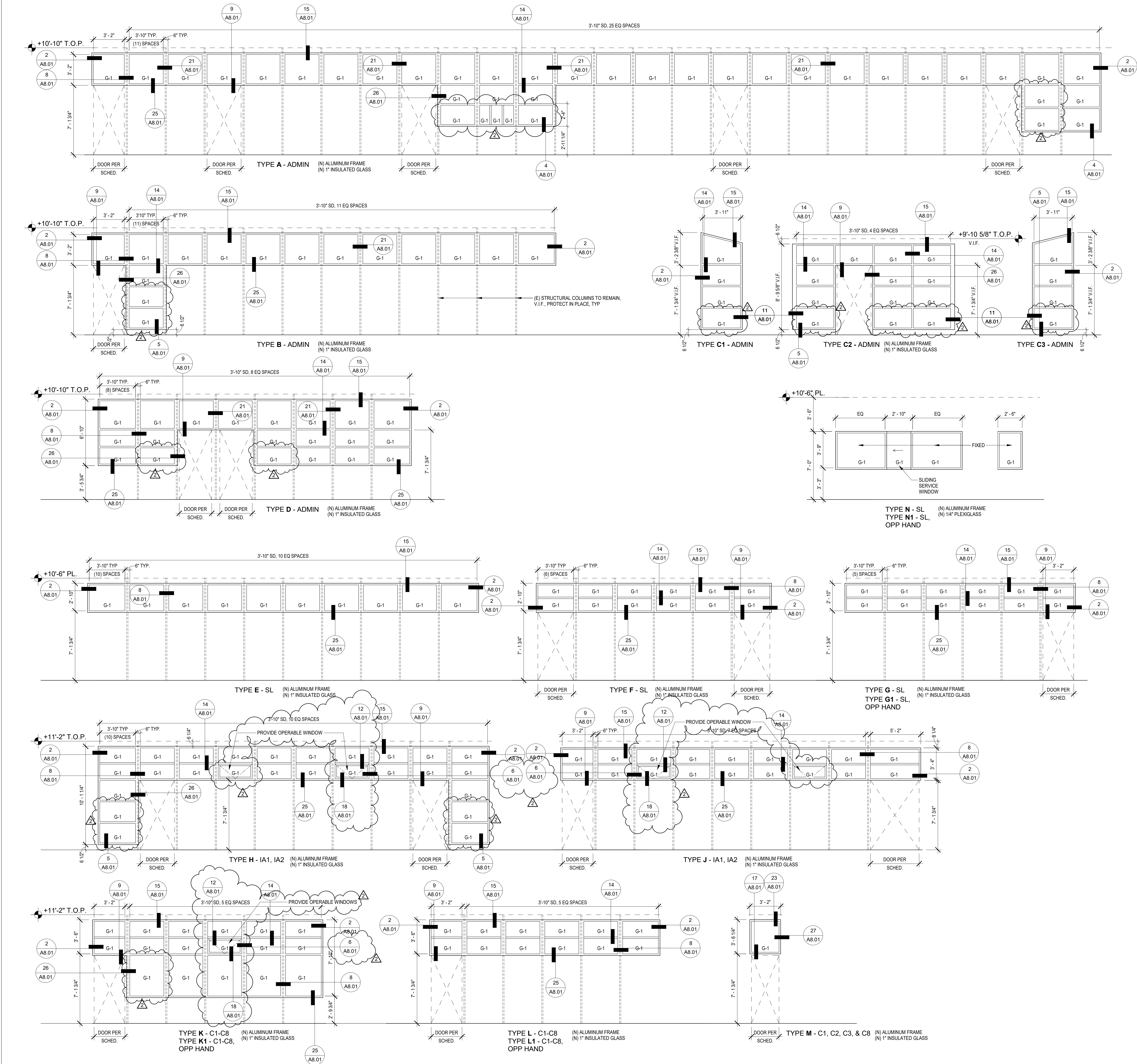
ENLARGED PLANS & INTERIOR ELEVATIONS

6 INTERIOR ELEVATIONS - CLASSROOM IA2 - 1



DOOR SCHEDULE

DOOR #	ROOM NAME	BUILDING NAME	DOOR TYPE	DOOR				FRAME				DETAILS				HARDWARE	FIRE RATING	PANIC HARDWARE	ACCESSIBLE SECURITY LOCKING HARDWARE
				PAIR/SINGLE	SIZE W x H		MATL	FINISH	FRAME TYPE	MATL	FINISH	SILL	JAMB	HEAD					
					WIDTH	HEIGHT													
A-01A	A-01	BLDG ADMIN	C	SINGLE	3'-9 1/2"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
A-01B	A-01	BLDG ADMIN	C	SINGLE	3'-6"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
A-02A	A-02	BLDG ADMIN	C	SINGLE	3'-4"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
A-02B	A-02	BLDG ADMIN	C	SINGLE	3'-6"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
A-04A	A-04	BLDG ADMIN	C	SINGLE	3'-6"	7'-0"	HM	PT	1	AC	ALUM	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
A-04B	A-04	BLDG ADMIN			2'-10"	7'-0"	SCWD		2	HM	PT				5		Yes	Yes	
A-04C	A-04	BLDG ADMIN			2'-10"	7'-0"	SCWD		2	HM	PT				5		Yes	No	
A-06A	A-06	BLDG ADMIN	C	SINGLE	3'-6"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	2		Yes	Yes	
A-06B	A-06	BLDG ADMIN	B	SINGLE	3'-0"	7'-0"	SCWD		2	HM	PT	19/A8.01	13/A8.01	13/B.01	3		No	Yes	
A-07A	A-07	BLDG ADMIN	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	2		Yes	Yes	
A-07B	A-07	BLDG ADMIN	B	SINGLE	3'-0"	7'-0"	SCWD		2	HM	PT	19/A8.01	13/A8.01	13/B.01	4		No	Yes	
A-08A	A-08	BLDG ADMIN	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	2		Yes	Yes	
A-08B	A-08	BLDG ADMIN	B	SINGLE	3'-0"	7'-0"	SCWD		2	HM	PT	19/A8.01	13/A8.01	13/B.01	4		No	Yes	
A-10A	A-10	BLDG ADMIN	C	SINGLE	3'-0"	7'-0"	HM	PT	2	HM	PT						Yes	No	
A-10B	A-10	BLDG ADMIN	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	2		Yes	Yes	
A-12	A-12	BLDG ADMIN	B	SINGLE	2'-2"	7'-0"	SCWD		2	HM	PT	19/A8.01	13/A8.01	13/B.01	5		No	No	
A-13	A-13	BLDG ADMIN	B	SINGLE	3'-0"	7'-0"	SCWD		2	HM	PT	19/A8.01	13/A8.01	13/B.01	6		No	No	
A-16	A-16	BLDG ADMIN			2'-10"	7'-0"	SCWD		2	HM	PT				5		Yes	No	
A-18	A-18	BLDG ADMIN	B	SINGLE	3'-0"	7'-0"	HM	PT	2	HM	PT	19/A8.01	13/A8.01	13/B.01	7		No	No	
A-19	A-19	BLDG ADMIN	B	SINGLE	3'-0"	7'-0"	SCWD		2	HM	PT	19/A8.01	13/A8.01	13/B.01	7		No	No	
C1-2A	C1-2	BLDG C1	C	SINGLE	3'-0"	7'-0"	HM	PT	3	HM	PT	7/A8.01	27/A8.01	17/A8.01	8		No	No	
C1-2B	C1-2	BLDG C1			2'-10"	7'-0"	SCWD		2	HM	PT						Yes	Yes	
C1-3A	C1-3	BLDG C1	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C1-3B	C1-3	BLDG C1	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C1-4A	C1-4	BLDG C1	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C1-4B	C1-4	BLDG C1	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C1-5A	C1-5	BLDG C1	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C1-5B	C1-5	BLDG C1	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C2-1	C2-1	BLDG C2			3'-0"	6'-10"	SCWD			HM							No	No	
C2-2A	C2-2	BLDG C2	C	SINGLE	3'-0"	7'-0"	HM	PT	3	HM	PT	7/A8.01	27/A8.01	17/A8.01	8		No	No	
C2-2B	C2-2	BLDG C2			2'-10"	7'-0"	SCWD		2	HM	PT						Yes	Yes	
C2-3A	C2-3	BLDG C2	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C2-3B	C2-3	BLDG C2	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C2-4A	C2-4	BLDG C2	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C2-4B	C2-4	BLDG C2	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C2-5A	C2-5	BLDG C2	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C2-5B	C2-5	BLDG C2	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C3-2	C3-2	BLDG C3	C	SINGLE	3'-0"	7'-0"	HM	PT	3	HM	PT	7/A8.01	27/A8.01	17/A8.01	8		No	No	
C3-3A	C3-3	BLDG C3	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C3-3B	C3-3	BLDG C3	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C3-4A	C3-4	BLDG C3	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C3-4B	C3-4	BLDG C3	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C3-5A	C3-5	BLDG C3	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C3-5B	C3-5	BLDG C3	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C4-1	C4-1	BLDG C4			3'-0"	6'-10"	SCWD			HM							No	No	
C4-2A	C4-2	BLDG C4	C	SINGLE	3'-0"	7'-0"	HM	PT	3	HM	PT	7/A8.01	27/A8.01	17/A8.01	8		No	No	
C4-2B	C4-2	BLDG C4			2'-10"	7'-0"	SCWD			HM	PT						Yes	Yes	
C4-3A	C4-3	BLDG C4	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C4-3B	C4-3	BLDG C4	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C4-4A	C4-4	BLDG C4	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C4-4B	C4-4	BLDG C4	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C4-5A	C4-5	BLDG C4	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C4-5B	C4-5	BLDG C4	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C5-2A	C5-2	BLDG C5	C	SINGLE	3'-0"	7'-0"	HM	PT	3	HM	PT	7/A8.01	27/A8.01	17/A8.01	8		No	No	
C5-2B	C5-2	BLDG C5			2'-10"	7'-0"	SCWD			HM	PT						Yes	Yes, No Closer	
C5-3A	C5-3	BLDG C5	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C5-3B	C5-3	BLDG C5	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C5-4A	C5-4	BLDG C5	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C5-4B	C5-4	BLDG C5	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C5-5A	C5-5	BLDG C5	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C5-5B	C5-5	BLDG C5	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C6-2A	C6-2	BLDG C6	C	SINGLE	3'-0"	7'-0"	HM	PT	3	HM	PT	7/A8.01	27/A8.01	17/A8.01	8		No	No	
C6-2B	C6-2	BLDG C6			2'-10"	7'-0"	SCWD			HM	PT						Yes	Yes	
C6-3A	C6-3	BLDG C6	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C6-3B	C6-3	BLDG C6	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C6-4A	C6-4	BLDG C6	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C6-4B	C6-4	BLDG C6	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C6-5A	C6-5	BLDG C6	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C6-5B	C6-5	BLDG C6	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C7-1	C7-1	BLDG C7			3'-0"	6'-10"	SCWD			HM							No	No	
C7-2A	C7-2	BLDG C7	C	SINGLE	3'-0"	7'-0"	HM	PT	3	HM	PT	7/A8.01	27/A8.01	17/A8.01	8		No	No	
C7-2B	C7-2	BLDG C7			2'-10"	7'-0"	SCWD			HM	PT						Yes	Yes	
C7-3A	C7-3	BLDG C7	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C7-3B	C7-3	BLDG C7	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C7-4A	C7-4	BLDG C7	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C7-4B	C7-4	BLDG C7	D	SINGLE	3'-0"	7'-0"	ALUM	AC	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		No	Yes	
C7-5A	C7-5	BLDG C7	C	SINGLE	3'-0"	7'-0"	HM	PT	1	ALUM	AC	7/A8.01	2/A8.01	9/A8.01	1		Yes	Yes	
C7-5B	C7-5	BLDG C7	D	SINGLE	3'-0"	7'-0"</													



GENERAL WINDOW FRAMING NOTES

- 1. (N) ALUMINUM FRAME, PER SPEC SEC. 08.41.13.
- 2. G-1: TG (TEMPERED GLASS) (N) 1" INSULATED, TINTED GLASS. SEE GLAZING SPECS.
- 3. USE BRONZE GLAZING COLOR.
- 4. FIELD VERIFY ALL DIMENSIONS.

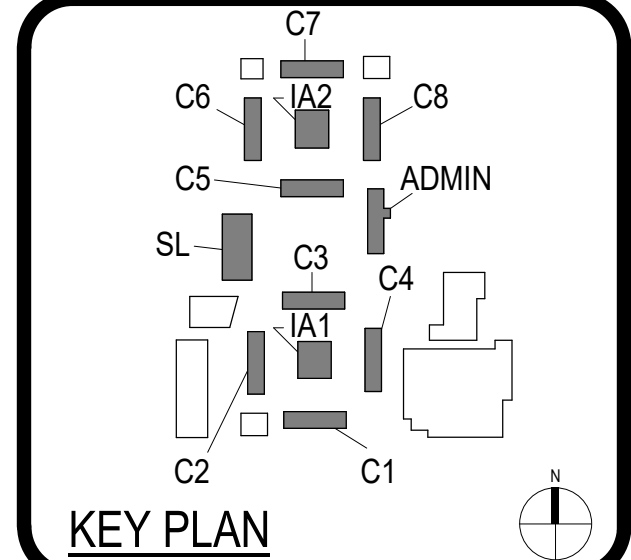


ARCHITECT
ANAHEIM
2400 E. Katella Avenue, Suite 950
Anaheim, CA 92806
P 949-546-5000

WARNER MIDDLE SCHOOL - MODERNIZATION PROJECT

PROJECT ADDRESS:
14171 NEWLAND ST.
WESTMINSTER, CA 92683

DSA SUBMITTAL
DSA APPL. NO. 04-121854 DSA FILE NO. 30-43



Consultant

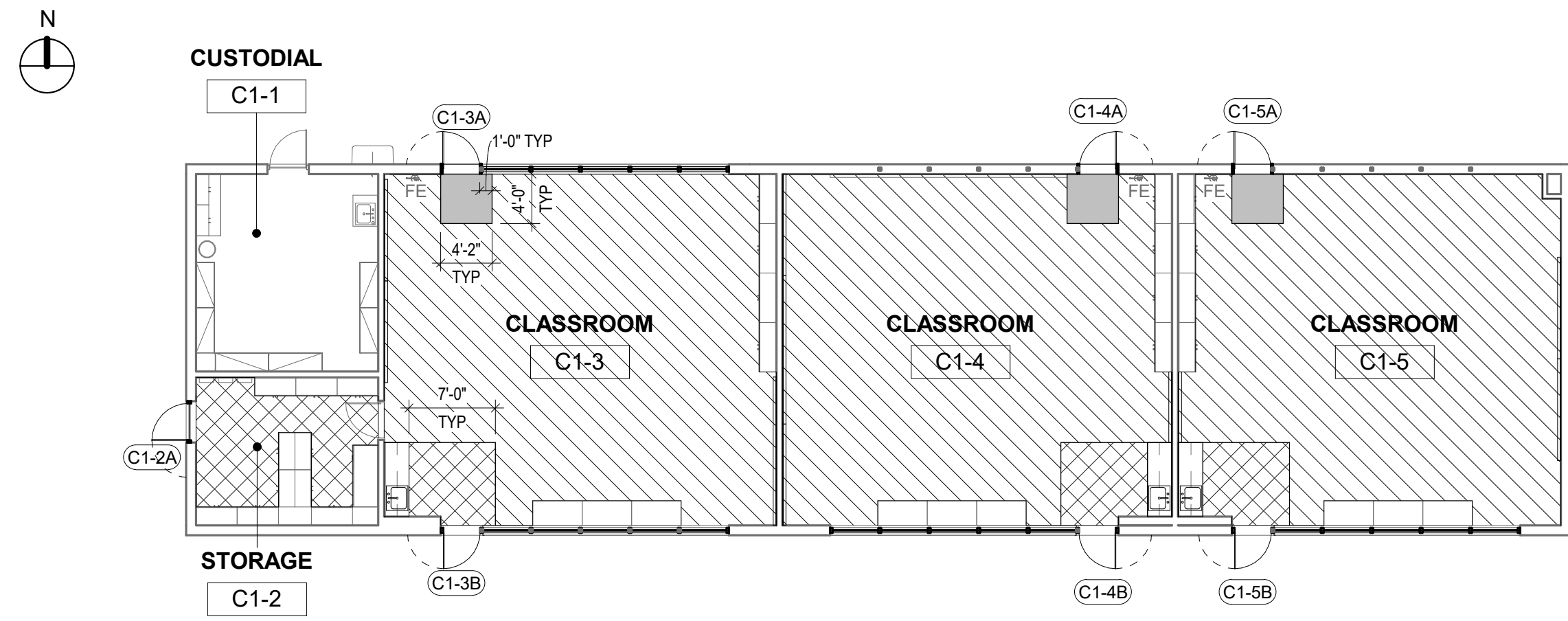
Architect

REVISIONS		
No.	Description	Date
2	ADDENDUM 02	02/07/2024

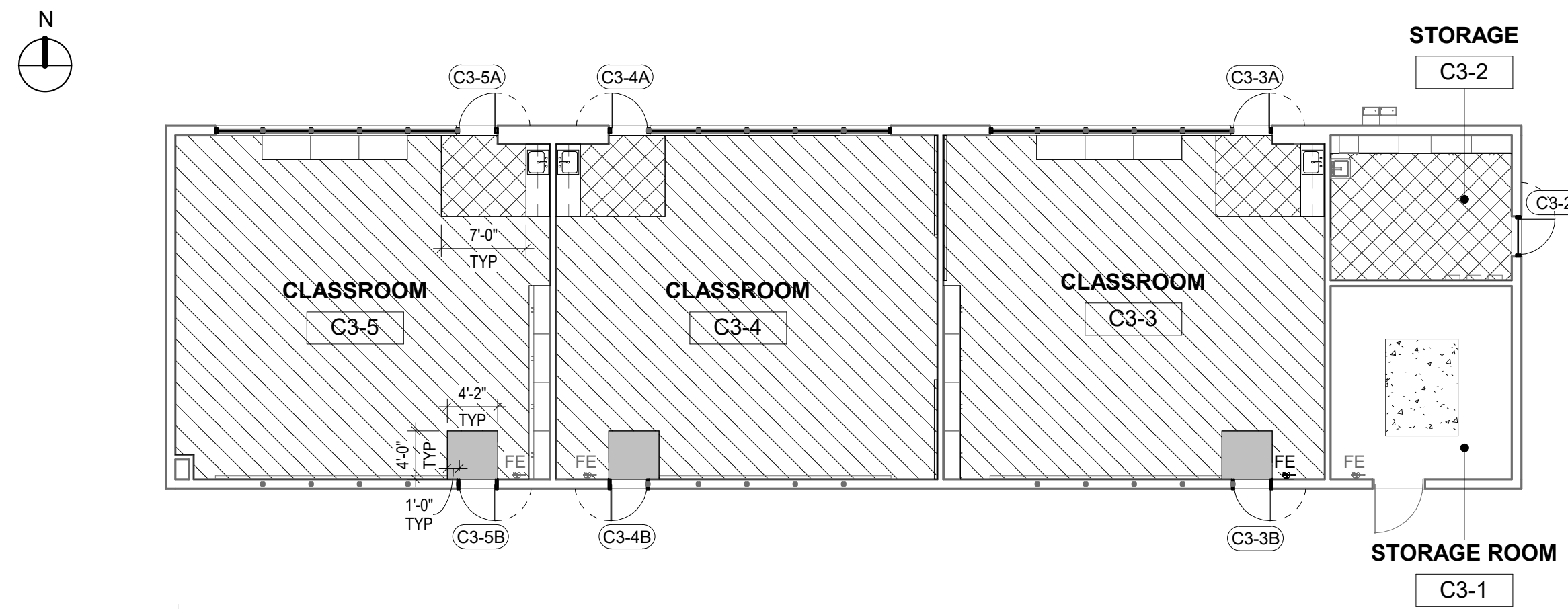
DSA SUBMITTAL

WINDOW SCHEDULE

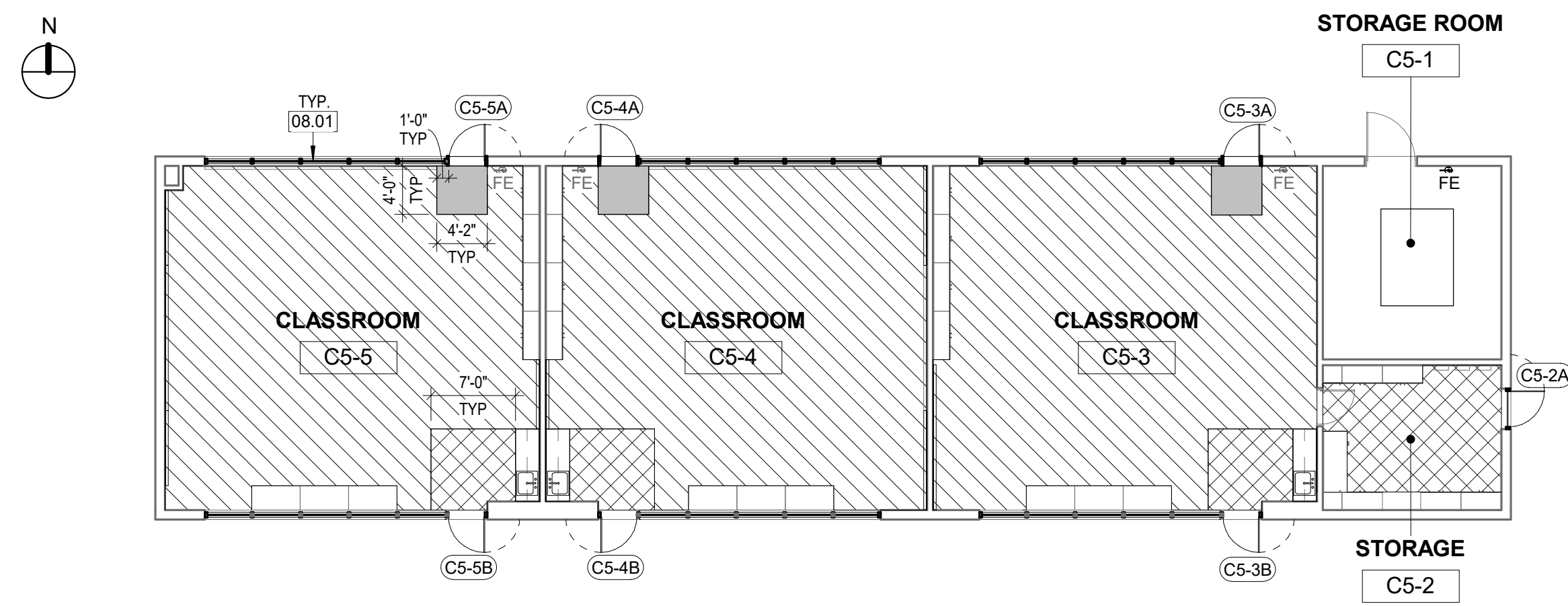
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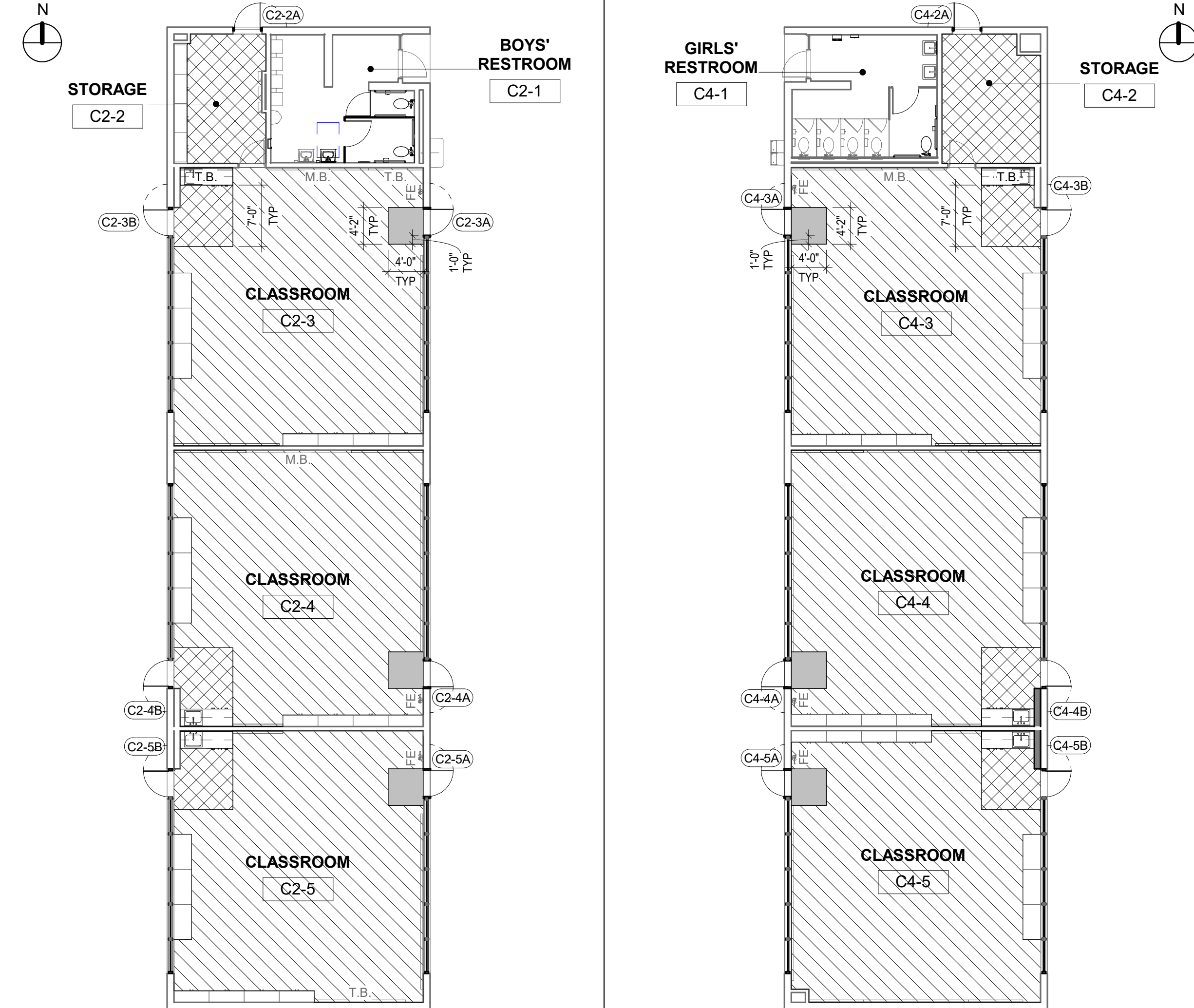
29 FLOOR PLAN - BUILDING C1
3/32" = 1'-0"



23 FLOOR PLAN - BUILDING C3
3/32" = 1'-0"



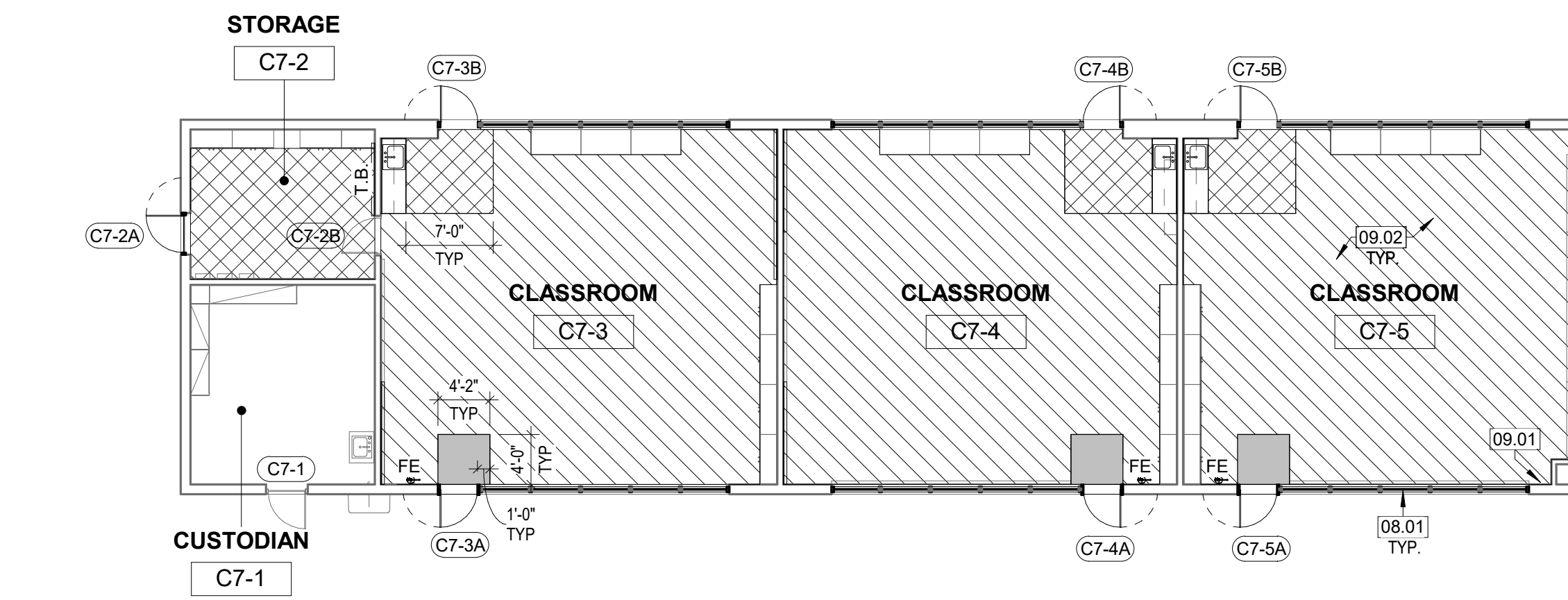
17 FLOOR PLAN - BUILDING C5
3/32" = 1'-0"



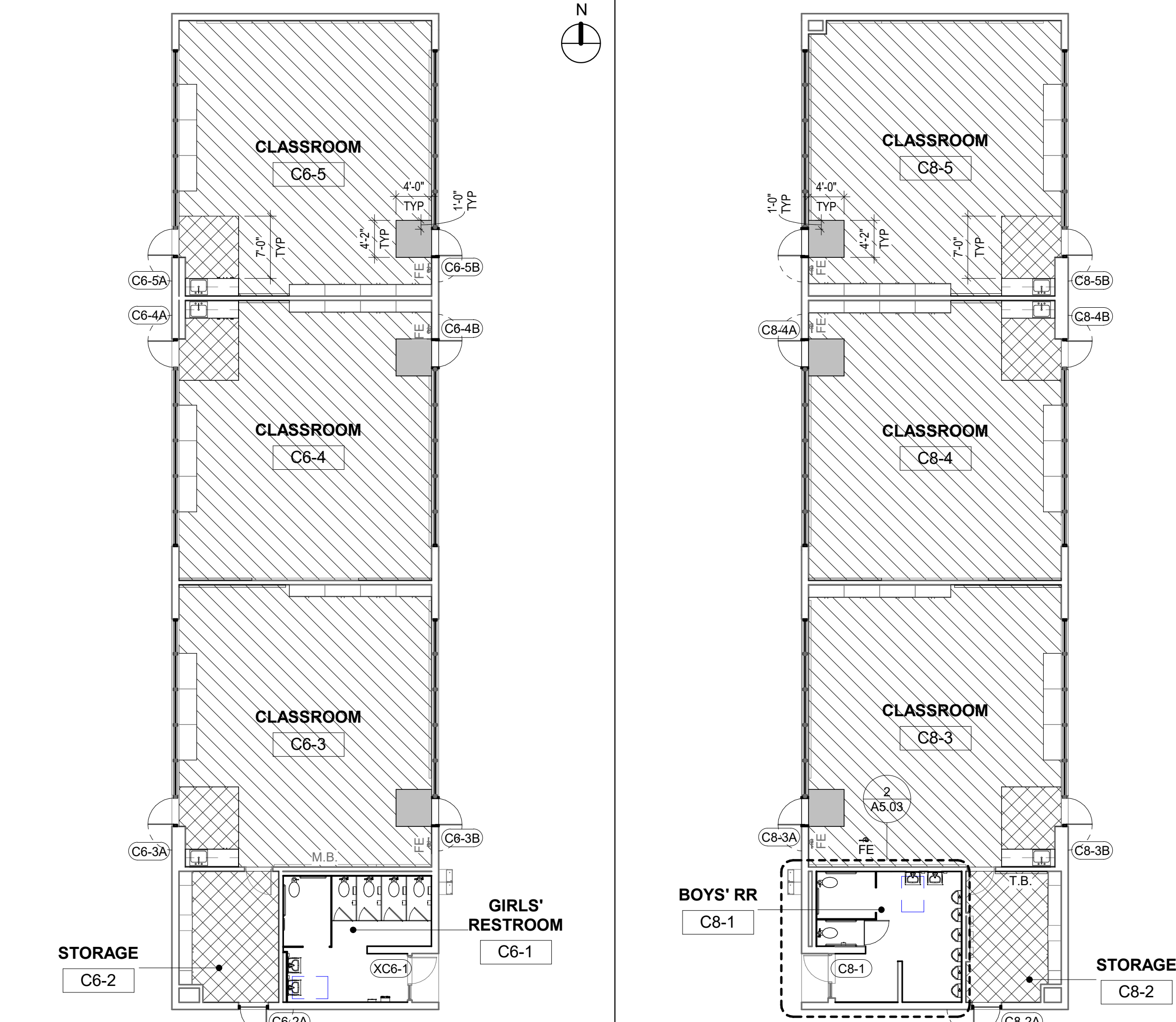
4 FLOOR PLAN - BUILDING C2
3/32" = 1'-0"

3 FLOOR PLAN - BUILDING C4
3/32" = 1'-0"

FINISH SCHEDULE - BLDGS C1-C8														
ROOM NUMBER	ROOM NAME	(E) FLOOR MATERIAL	FLOOR		BASE		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL	
			MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH
C1-1	CUSTODIAL	-	-	-	-	-	-	-	-	-	-	-	-	-
C1-2	STORAGE	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1
C1-3	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1
C1-4	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1
C1-5	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1
C2-1	BOYS' RESTROOM	-	-	-	-	-	-	-	-	-	-	-	-	-
C2-2	STORAGE	VCT	LVT	LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) GYP	P1	(E) BRICK	P1
C2-3	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1
C2-4	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1
C2-5	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1
C3-1	STORAGE ROOM	-	-	-	-	-	-	-	-	-	-	-	-	-
C3-2	STORAGE	CPT	LVT	LVT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	(E) GYP	P1
C3-3	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1
C3-4	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1
C3-5	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1
C4-1	GIRLS' RESTROOM	-	-	-	-	-	-	-	-	-	-	-	-	-
C4-2	STORAGE	VCT	LVT	LVT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	(E) GYP	P1
C4-3	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1
C4-4	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1
C4-5	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1
C5-1	STORAGE ROOM	-	-	-	-	-	-	-	-	-	-	-	-	-
C5-2	STORAGE	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1
C5-3	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1
C5-4	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1
C5-5	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1
C6-1	GIRLS' RESTROOM	CT	CT	CT1	CTB	CTB1	(E) GYP	CT1 & P1	(E) BRICK	CT1 & P1	(E) BRICK	CT1 & P1	(E) GYP	CT1 & P1
C6-2	STORAGE	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1
C6-3	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1
C6-4	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1
C6-5	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1
C7-1	CUSTODIAN	-	-	-	-	-	-	-	-	-	-	-	-	-
C7-2	STORAGE	VCT	LVT	LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) GYP	P1	(E) BRICK	P1
C7-3	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1
C7-4	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1
C7-5	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1
C8-1	BOYS' RR	CT	CT	CT1	CTB	CTB1	(E) GYP	CT1 & P1	(E) GYP	CT1 & P1	(E) BRICK	CT1 & P1	(E) GYP	CT1 & P1
C8-2	STORAGE	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1
C8-3	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1
C8-4	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1
C8-5	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1



14 FLOOR PLAN - BUILDING C7
3/32" = 1'-0"



2 FLOOR PLAN - BUILDING C6
3/32" = 1'-0"

1 FLOOR PLAN - BUILDING C8
3/32" = 1'-0"

FINISH FLOOR MATERIALS LEGEND

- (E) FLOOR FINISHES TO REMAIN
- CPT-1, CARPET FLOORING TYPE 1
RE: FINISH SCHEDULE
- LVT-1, LUXURY VINYL TILE
RE: FINISH SCHEDULE
- CT-1 CERAMIC TILE FLOORING
RE: FINISH SCHEDULE
- WALK-OFF MAT,
TRANSITION FLUSHED W/ ADJACENT CARPET.
RE: FLOOR FINISH PLAN
48" DEPTH, 12" EXTEND ON PUSH SIDE, UNLESS SHOWN
AS FLAT TO DOOR WIDTH OR EDGE OF WALL
- PATCH & REPAIR EXISTING CONCRETE FLOOR, PROVIDE
AN EVEN & LEVEL FINISH

GENERAL FINISH LEGEND NOTES

- ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
- REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
- PAINT ALL EXPOSED STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS, ETC. TO MATCH ADJACENT SURFACES.
- PAINT ALL NON-FABRIC FLOORS FINISHED EXPOSED METAL.
- REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
- ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
- PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
- PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL, U.N.O.
- REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
- ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE, U.N.O.
- ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
- PAINT ALL HOLLOW METAL DOOR FRAMES TO MATCH ADJACENT WALL COLOR, U.N.O.
- REMOVE EXISTING PAINT AT EXISTING BRICK WALL, PREPARE BRICK WALL SMOOTH TO RECEIVE NEW PAINT FINISH, WHERE OCCURS.
- RE-PAINT ALL EXISTING CASEWORK (EXCLUDE FLAMSTONE COUNTERTOPS).
- PROVIDE APPROPRIATE PREPARATION, CLEANING AND BASE MATERIAL TO EXISTING INTERIOR SURFACES TO RECEIVE NEW FINISHES PER FINISH SPECS.
- PROVIDE APPROPRIATE PREPARATION, CLEANING AND BASE MATERIAL TO EXISTING BRICK WALL BEFORE RECEIVING NEW FINISH MATERIAL, PER FINISH SPECIFICATION.
- PROVIDE CONSISTENT FLAT SURFACE USING CEMENT FLOAT AND APPROPRIATE BASE MATERIAL AT EXISTING BRICK WALL TO RECEIVE NEW TILE FINISH, PER FINISH SPECIFICATIONS.

GENERAL NOTES

- ALL FINISH MATERIALS MUST MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
- REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
- PAINT ALL EXPOSED DUCTWORK, CONDUIT, ELECTRICAL EQUIPMENT, ETC. TO MATCH ADJACENT SURFACES.
- PAINT ALL NON-FABRIC FINISHED EXPOSED METAL.
- REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR ALL FLOORING MATERIALS.
- FLOORING TRANSITIONS AT DOORS SHOULD BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, UNLESS NOTED OTHERWISE.
- CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
- PROVIDE BULLNOSE TRIM AT TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL, UNLESS NOTED OTHERWISE.
- REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
- ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE, UNLESS NOTED OTHERWISE.
- CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, UNLESS NOTED OTHERWISE.
- ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR.

MATERIAL FINISH ABBREVIATIONS

ACP1	2X2' ACOUSTICAL CEILING PANEL, SEE SPECIFICATIONS
CPT1	CARPET TYPE 1, SEE SPECIFICATIONS
CT1	CERAMIC TILE 1, SEE SPECIFICATIONS
CTB1	CERAMIC TILE BASE 1, SEE SPECIFICATIONS
VCT1	VINYL COMPOSITE TILE 1, SEE SPECIFICATIONS
LVT1	LUXURY VINYL TILE 1, SEE SPECIFICATIONS
P1	PAINT TO BE SELECTED BY OWNER, SEE SPECIFICATIONS
RB1	RUBBER BASE, SEE SPECIFICATIONS
(E)	(E) FINISH TO REMAIN
MF	MANUFACTURERS FINISH, SEE SPECIFICATIONS

MATERIAL ABBREVIATIONS

ACP	ACOUSTIC CEILING PANEL
CONC	CONCRETE
CPT	CARPET
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
GUT	GLUE UP TILE
GYP	GYPSUM BOARD
P	PAINT
RB	RUBBER BASE
VCT	VINYL COMPOSITE TILE
LVT	LUXURY VINYL TILE
(E)	(E) FINISH TO REMAIN



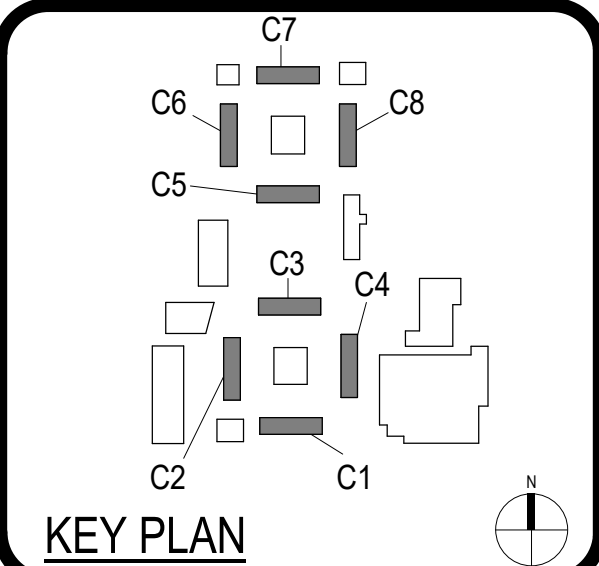
ARCHITECT
ANAHEIM
2400 E. Katella Avenue, Suite 950
Anaheim, CA 92806
P 949-548-5000

WARNER MIDDLE SCHOOL - MODERNIZATION PROJECT

PROJECT ADDRESS:
14171 NEWLAND ST.
WESTMINSTER, CA 92683

DSA SUBMITTAL

DSA APPL. NO. 04-121854 DSA FILE NO. 30-43



Consultant

Architect

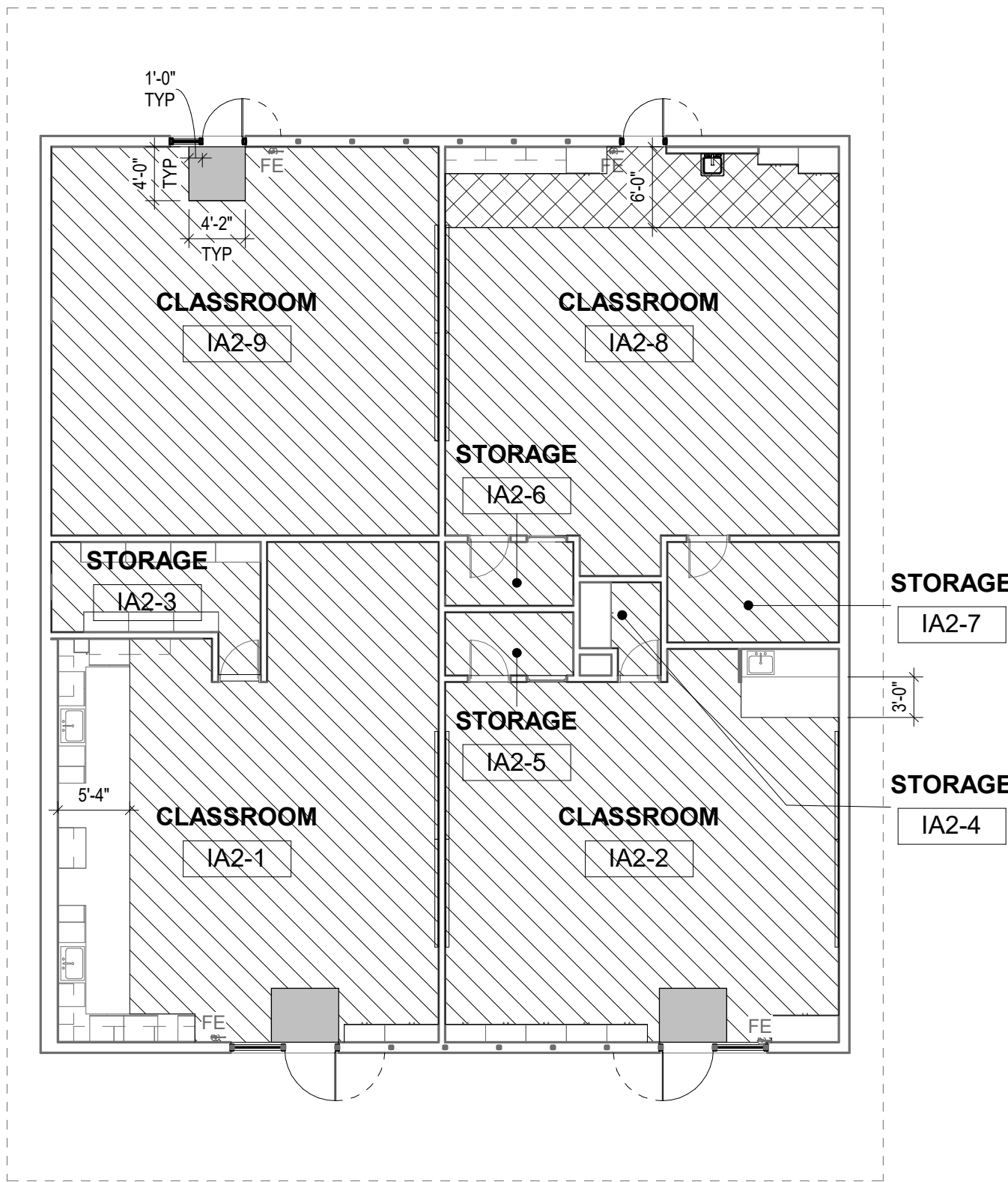
CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 03/31/23 PROJECT NUMBER 220526

No.	Description	Date
2	ADDENDUM 02	02/07/2024

DSA SUBMITTAL

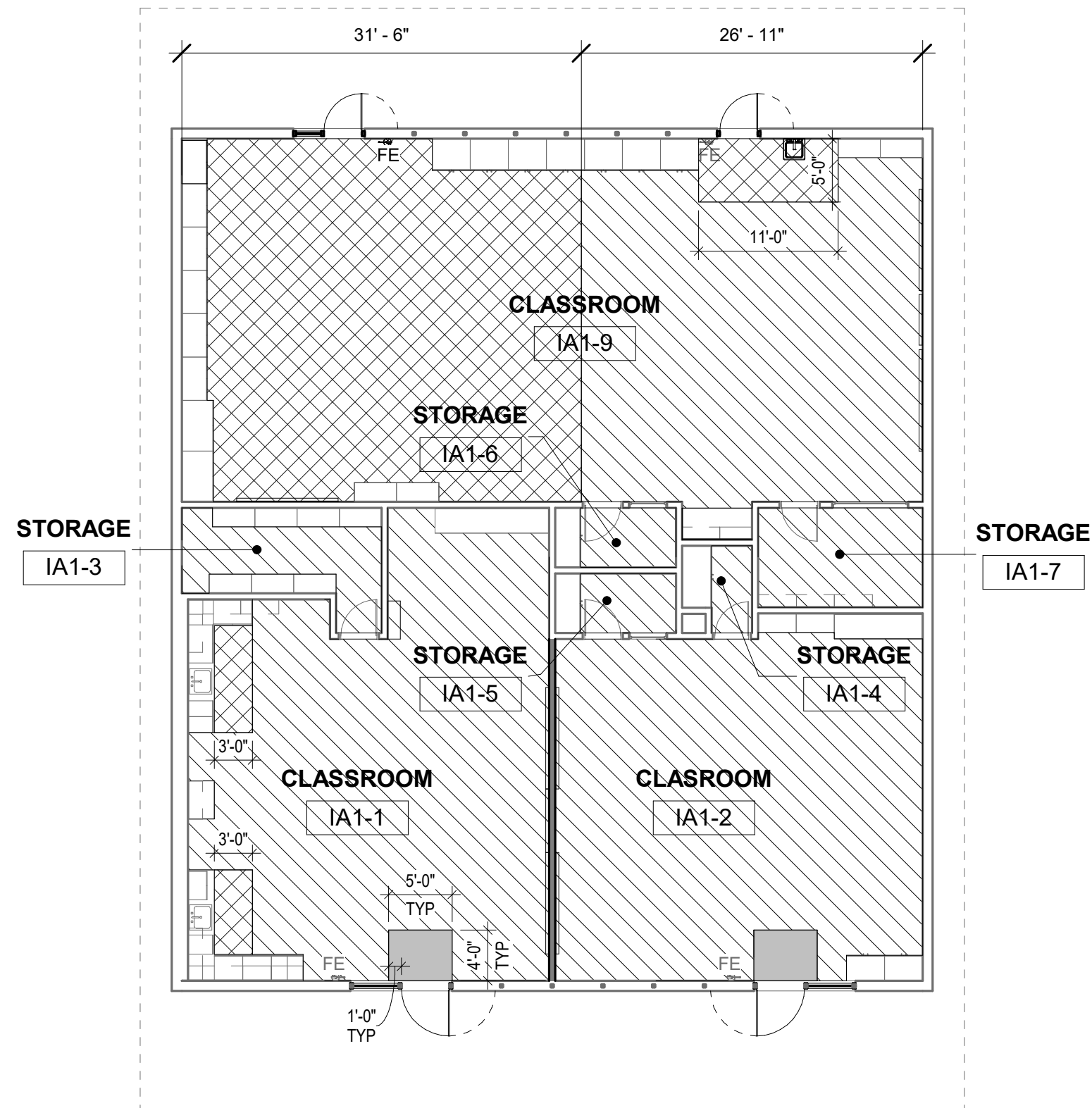
FINISH PLANS &
SCHEDULE - BLDGS
C1-C8

A10.01



18 FLOOR PLAN - BUILDING IA-2

3/32" = 1'-0"

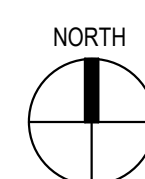
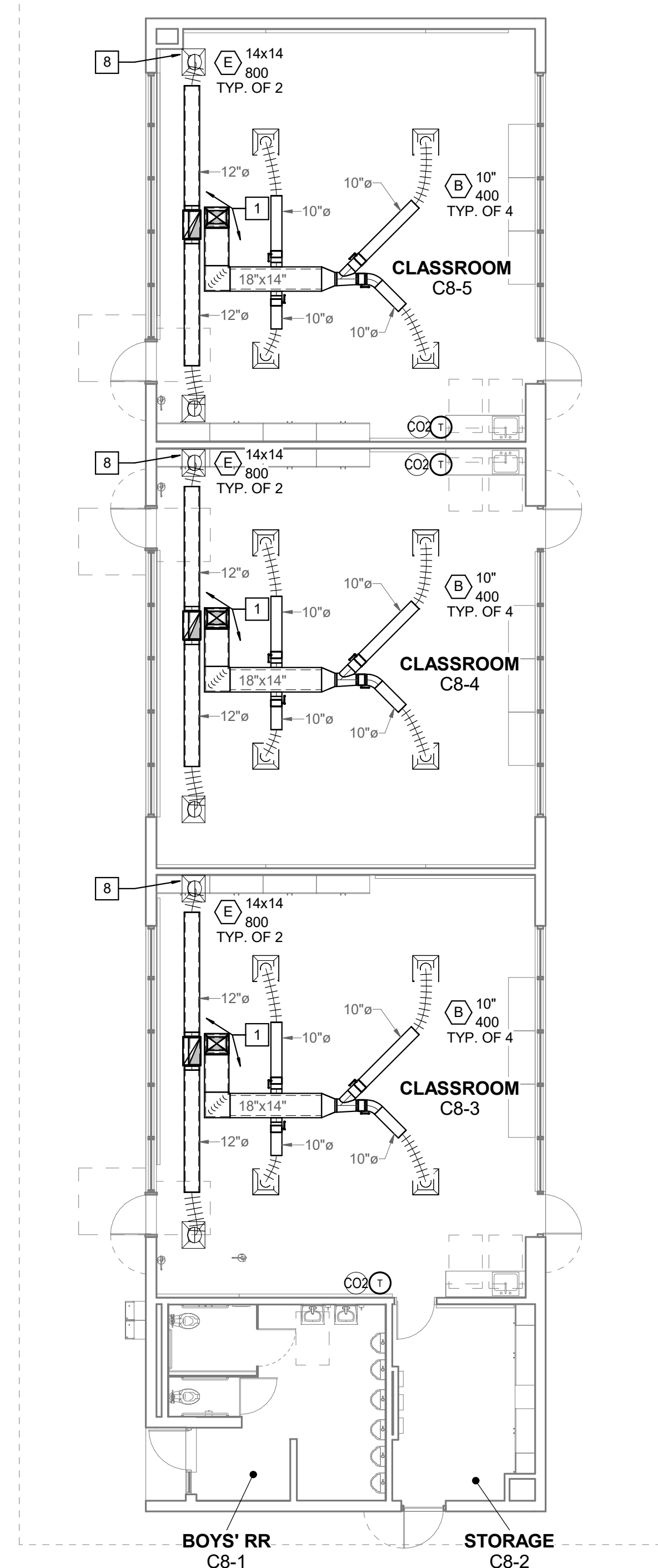
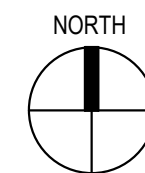
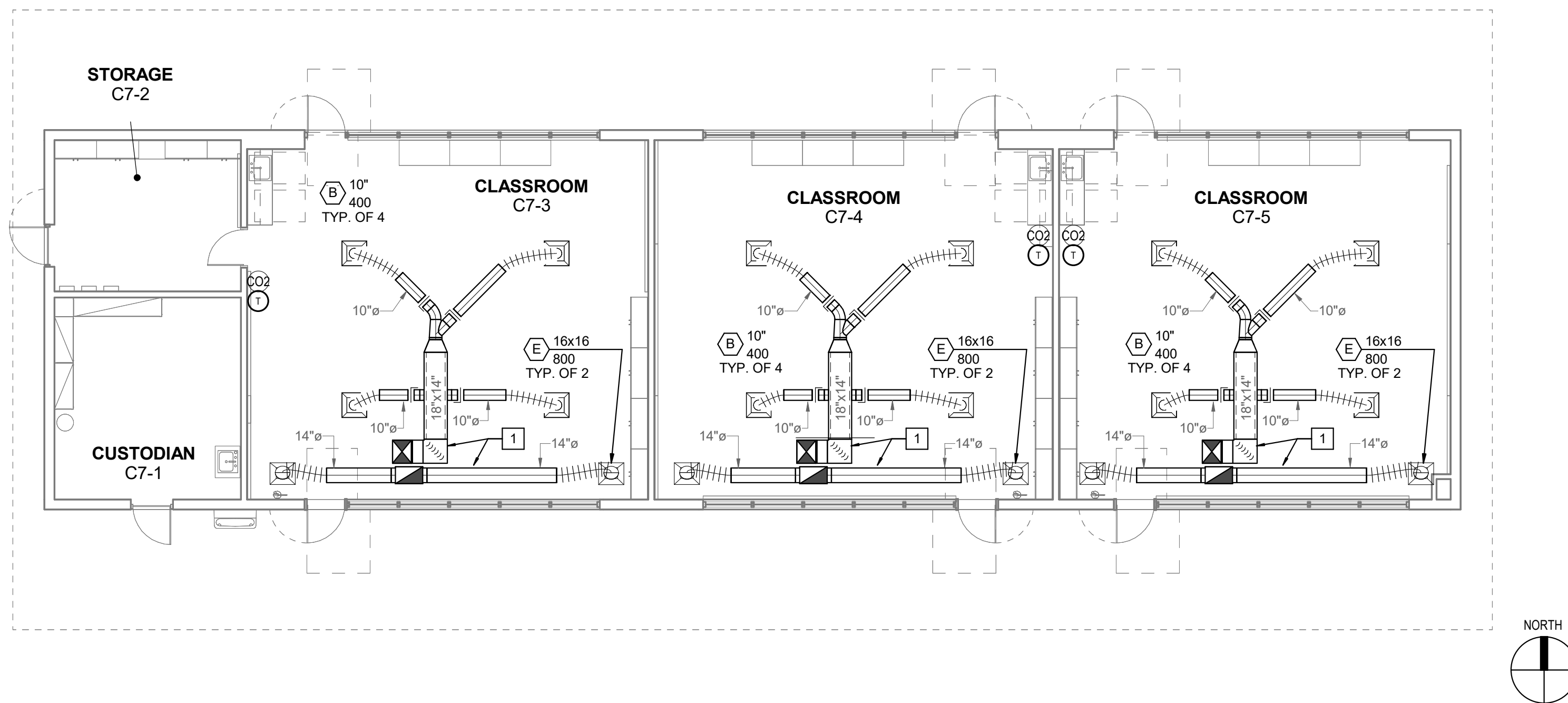
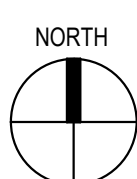
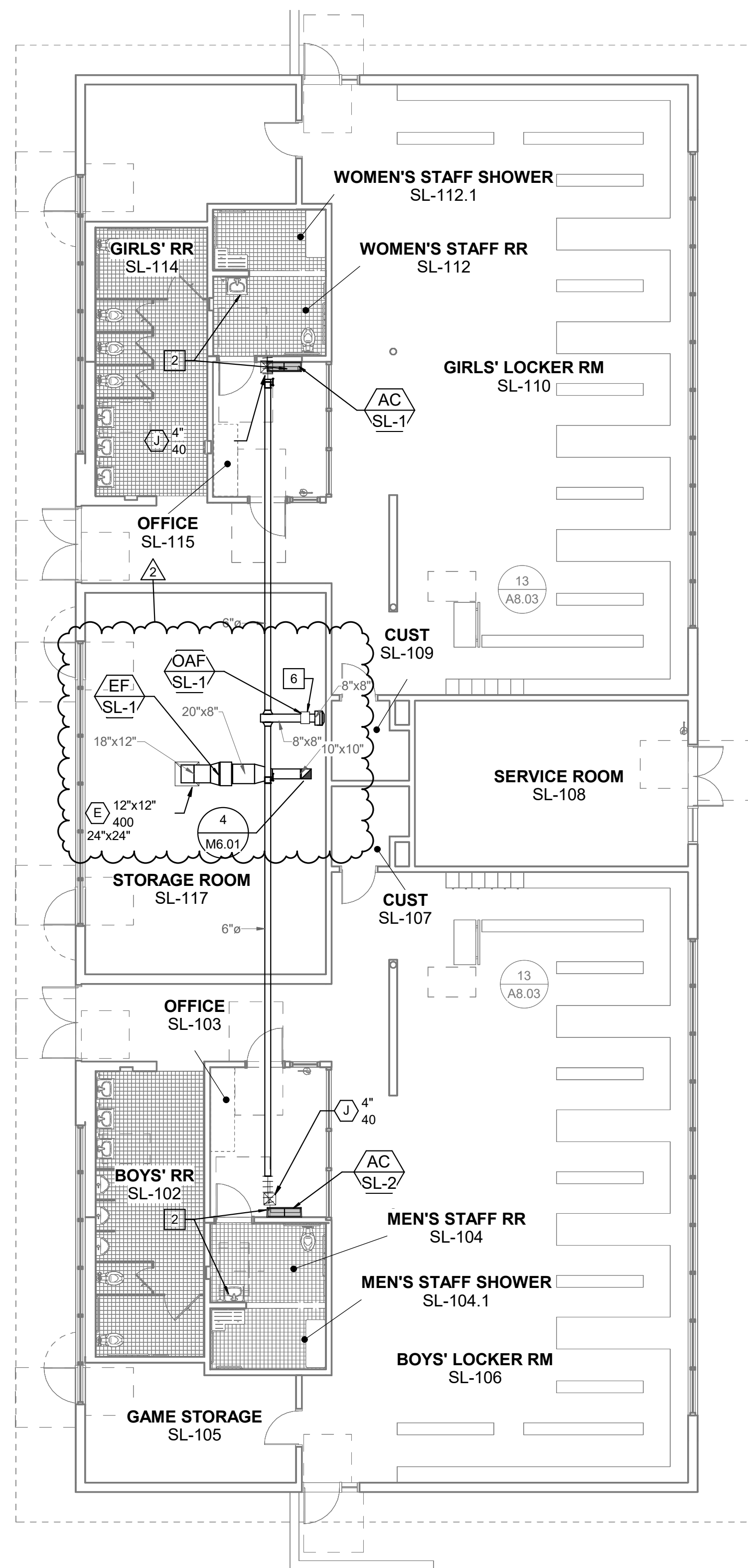
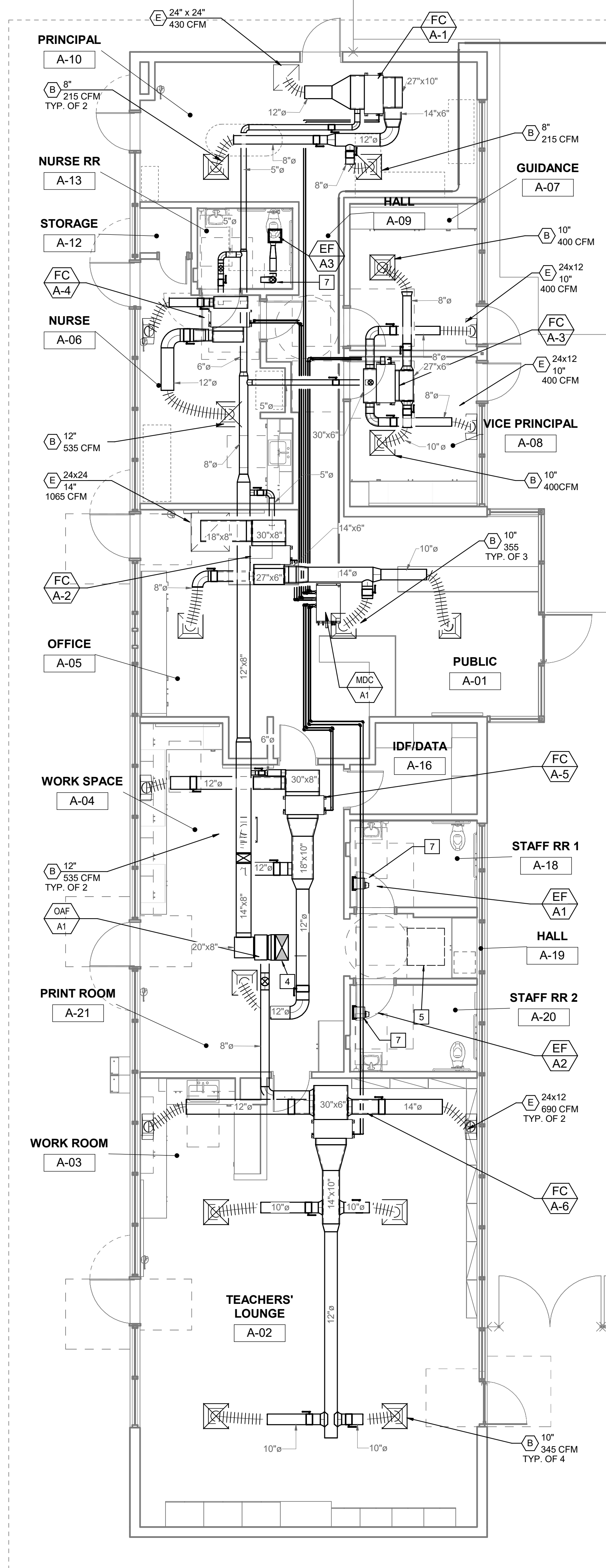


6 FLOOR PLAN - BUILDING IA-1

3/32" = 1'-0"

FINISH SCHEDULE - BLDGS ADMIN, SL, IA1 & IA2																	
ROOM NUMBER	ROOM NAME	(E) FLOOR MATERIAL	FLOOR		BASE		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING		
			MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
A-01	PUBLIC	VCT	LVT	LVT1	RB	RB1	(E) BRICK	P1	-	-	(E) BRICK	P1	(E) BRICK	P1	ACP	ACP1	
A-02	TEACHERS' LOUNGE	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	(E) BRICK	P1	ACP	ACP1	
A-03	WORK ROOM	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	ACP	ACP1	
A-04	WORK SPACE	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	(E) BRICK	P1	ACP	ACP1	
A-05	OFFICE	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	-	ACP	ACP1	ACP1	
A-06	NURSE	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) & (N) GYP	P1	(E) GYP	P1	(E) BRICK	P1	ACP	ACP1	
A-07	GUIDANCE	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	ACP	ACP1	
A-08	VICE PRINCIPAL	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) GYP	P1	ACP	ACP1	
A-09	HALL	VCT	LVT	LVT1	RB	RB1	-	-	(E) GYP	P1	-	-	(E) & (N) GYP	P1	ACP	ACP1	
A-10	PRINCIPAL	VCT	LVT	LVT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	ACP	ACP1	
A-12	STORAGE	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(N) GYP	P1	(N) GYP	P1	-	(E) BRICK	P1	GYP	P1
A-13	NURSE RR	VCT	LVT	LVT1	RB	RB1	(E) GYP	CT1 & P1	(E) GYP	CT1 & P1	(N) GYP	CT1 & P1	(N) GYP	CT1 & P1	GYP	P1	
A-16	ID/IDATA	VCT	LVT	LVT1	RB	RB1	(E) BRICK	P1	-	-	(E) GYP	P1	-	-	ACP	ACP1	
A-18	STAFF RR 1	CT	CT	CT1	CTB	CTB1	(N) GYP	CT1 & P1	(E) BRICK	CT1 & P1	(N) GYP	CT1 & P1	(E) GYP	CT1 & P1	ACP	ACP1	
A-19	HALL	VCT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	ACP	ACP1	
A-20	STAFF RR 2	CT	CT	CT1	CTB	CTB1	(E) GYP	CT1 & P1	(E) BRICK	CT1 & P1	(E) GYP	CT1 & P1	(E) GYP	CT1 & P1	ACP	ACP1	
A-21	PRINT ROOM	VCT	LVT	LVT1	RB	RB1	-	-	(E) GYP	P1	(E) GYP	P1	(E) BRICK	P1	ACP	ACP1	
IA1-1	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	ACP	ACP1	
IA1-2	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	(E) BRICK	P1	ACP	ACP1	
IA1-3	STORAGE	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	ACP	ACP1	
IA1-4	STORAGE	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	-	(E) GYP	P1	GYP	P1
IA1-5	STORAGE	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	ACP	ACP1	
IA1-6	STORAGE	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	ACP	ACP1	
IA1-7	STORAGE	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) GYP	P1	ACP	ACP1	
IA1-9	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	ACP	ACP1	
IA2-1	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	ACP	ACP1	
IA2-2	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	(E) BRICK	P1	ACP	ACP1	
IA2-3	STORAGE	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	(E) BRICK	P1	ACP	ACP1	
IA2-4	STORAGE	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	ACP	ACP1	
IA2-5	STORAGE	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	ACP	ACP1	
IA2-6	STORAGE	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	ACP	ACP1	
IA2-7	STORAGE	CPT	CPT	CPT1	RB	RB1	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) GYP	P1	ACP	ACP1	
IA2-8	CLASSROOM	CPT & VCT	CPT & LVT	CPT1 & LVT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	(E) GYP	P1	ACP	ACP1	
IA2-9	CLASSROOM	CPT	CPT	CPT1	RB	RB1	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	(E) BRICK	P1	ACP	ACP1	
SL-101	HALL	-	-	-	-	-	(E) BRICK	P1	-	-	(E) BRICK & (E) GYP	CT1 & P1	(E) BRICK	P1	GYP	P1	
SL-102	BOYS' RR	CT	CT	CT1	CTB	CTB1	(E) BRICK	CT1 & P1	(E) GYP	CT1 & P1	(E) GYP	CT1 & P1	(E) BRICK & (E) GYP	P1	GYP	P1	
SL-103	OFFICE	CT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	ACP	ACP1	
SL-104	MEN'S STAFF RR	CT	CT	CT1	CTB	CTB1	(N) GYP	CT1 & P1	(N) GYP	CT1 & P1	(N) GYP	CT1 & P1	(N) GYP	P1	GYP	P1	
SL-104.1	MEN'S STAFF SHOWER	CT	CT	CT1	CTB	CTB1	(N) GYP	CT1 & P1	(N) GYP	CT1 & P1	(N) GYP	CT1 & P1	(N) GYP	P1	GYP	P1	
SL-105	GAME STORAGE	-	-	-	-	-	(N) GYP	P1	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	-	-	
SL-106	BOYS' LOCKER RM	-	-	-	-	-	(E) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	(E) & (N) GYP	CT1 & P1	GYP	P1	
SL-107	CUST	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SL-108	SERVICE ROOM	-	-	-	-	-	(E) GYP	P1	(E) BRICK	P1	(E) GYP	P1	(E) GYP	P1	GYP	P1	
SL-109	CUST	-	-	-	-	-	-	-	-	-	-	-	(E) BRICK	P1	ACP	ACP1	
SL-110	GIRLS' LOCKER RM	-	-	-	-	-	(E) BRICK	P1	(E) BRICK	P1	(E) GYP	P1	(E) & (N) GYP	CT1 & P1	GYP	P1	
SL-111	GAME STORAGE	-	-	-	-	-	-	-	(E) GYP	P1	(E) GYP	P1	-	-	-	-	
SL-112	WOMEN'S STAFF RR	CT	CT	CT1	CTB	CTB1	(N) GYP	CT1 & P1	(N) GYP	CT1 & P1	(N) GYP	CT1 & P1	(N) GYP	CT1 & P1	GYP	P1	
SL-112.1	WOMEN'S STAFF SHOWER	CT	CT	CT1	CTB	CTB1	(N) GYP	CT1 & P1	(N) GYP	CT1 & P1	(N) GYP	CT1 & P1	(N) GYP	CT1 & P1	GYP	P1	
SL-114	GIRLS' RR	CT	CT	CT1	CTB	CTB1	(N) GYP	CT1 & P1	(N) GYP	CT1 & P1	(E) BRICK	CT1 & P1	(E) BRICK & (E) GYP	CT1 & P1	GYP	P1	
SL-115	OFFICE	CT	LVT	LVT1	RB	RB1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	(E) GYP	P1	ACP	ACP1	
SL-116	HALL	-	-	-	-	-	(E) BRICK & (E) GYP	CT1 & P1	-	-	(E) BRICK	P1	(E) BRICK	P1	GYP	P1	
SL-117	STORAGE ROOM	(E) CONCRETE	-	-	RB	RB1	(E) BRICK	P1	(N) GYP	P1	(E) BRICK	P1	(E) BRICK	P1	GYP	P1	





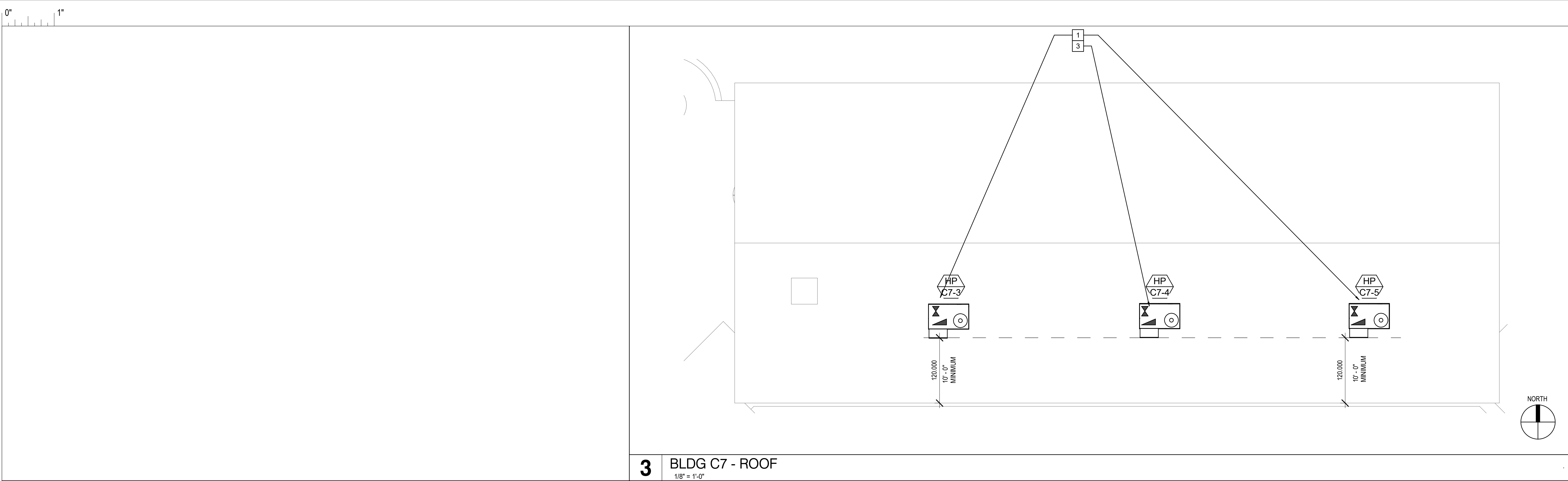
- 1 RETURN DUCTS SHALL HAVE 1" INTERNAL INSULATION LINING WHERE SHOWN. SPLY DUCT SECTION DUCTS SHALL HAVE 2" INTERNAL INSULATION LINING WHERE SHOWN. DUCT DIMENSIONS SHOWN ARE NET INSIDE DIMENSIONS.
- 2 CONNECT CONDENSATE DRAIN FROM AC UNITS ON WALL TO TAILPIECE OF SINK. WALL AC UNITS SHALL COME WITH A FACTORY INSTALLED CONDENSATE PUMP.
- 3 RUN 4" OUTSIDE AIR DUCT FROM ROOF TO DISCHARGE ABOVE THE WALL AC UNIT
- 4 RUN 24 x 12 OUTSIDE AIR DUCT TO EXISTING ROOF INLET. CONNECT IN SMALL MECH RM. ABOVE ACCESS HATCH.
- 5 EXISTING ACCESS HATCH TO MECHANICAL ROOM ABOVE. REFER ALSO TO DRAWING MD2.01 PLAN NUMBER 3.
- 6 6" OA QUAD ROOF TO SUPPLY AIR OUTLET DISCHARGING ABOVE THE NEW WALL MOUNTED AC UNITS. ROOF VENT TO INCLUDE BIRD SCREEN AND BACKDRAFT DAMPER.
- 7 EXHAUST DUCT TO RUN TO ROOF CAP.
- 8 MOUNT 24x24 RA GRILLE ON SLOPED PORTION OF CEILING NEAR EXTERIOR WALL (TYP.)

1. ALL DIMENSIONS ON DUCTS REPRESENT THE NET AREA AVAILABLE TO AIRFLOW. FOR LINED DUCTS THIS IS THE DIMENSIONS FROM INSIDE TO INSIDE OF THE INSULATION. FOR SUPPLY DUCTS THE DIMENSIONS FROM THE ACTUAL DUCT SIZE AND INSULATION WILL BE ON THE OUTSIDE OF THE DUCT. LINED DUCTS OUTSIDE THE BUILDING ENVELOPE SHALL HAVE 2" INTERNAL LINING INSIDE THE ENVELOPE SHALL BE 1" INTERNAL LINING WHERE SHOWN ON THE PLANS.
2. PROVIDE FILTER BOXES ON INLET SIDE OF EACH FAN COIL.

KEY NOTES

GENERAL NOTES

ARCHITECT	PBK Architects, Inc. PBK.com ANAHEIM 2400 E. Katella Ave., Suite 950 Anaheim, CA 92806 P-949-548-5000																																	
CONSULTANT	LEAF ENGINEERS 8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909-887-0009 leafengineers.com																																	
WARNER MIDDLE SCHOOL - MODERNIZATION PROJECT																																		
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KEY PLAN																																		
Consultant 																																		
Architect 																																		
CLIENT WESTMINSTER SCHOOL DISTRICT <table style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 50%;">DATE 03/31/2023</td> <td style="width: 50%;">PROJECT NUMBER 220526</td> </tr> </table>		DATE 03/31/2023	PROJECT NUMBER 220526																															
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MECHANICAL BUILDING FLOOR PLANS C7, C8, S-L & ADMINISTRATION																																		



KEY NOTES

1

MOUNT ROOFTOP UNITS ON SEISMIC CURB ON TOP OF SLOPING CURB FRAMING.

2

MOUNT HEAT PUMPS ON LEVEL CURB PROVIDED BY OTHER DIVISIONS.

3

ALL ROOFTOP EQUIPMENT SHALL BE LOCATED GREATER THAN OR EQUAL TO 10' - 0" AWAY FROM EDGE OF ROOF, MEASURED HORIZONTALLY FROM THE CLOSEST PART OF THE EQUIPMENT TO THE EDGE OF THE ROOF.

4

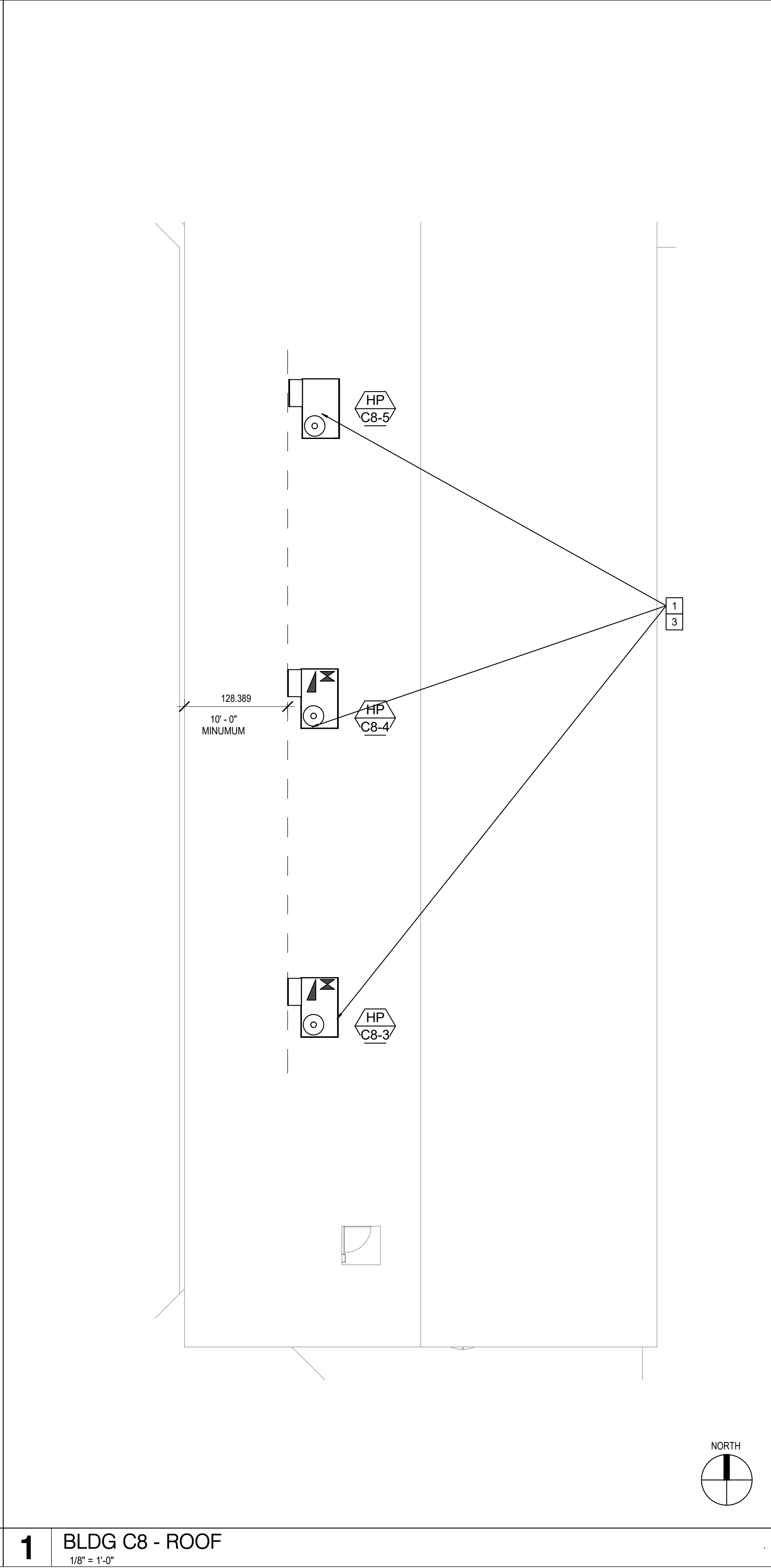
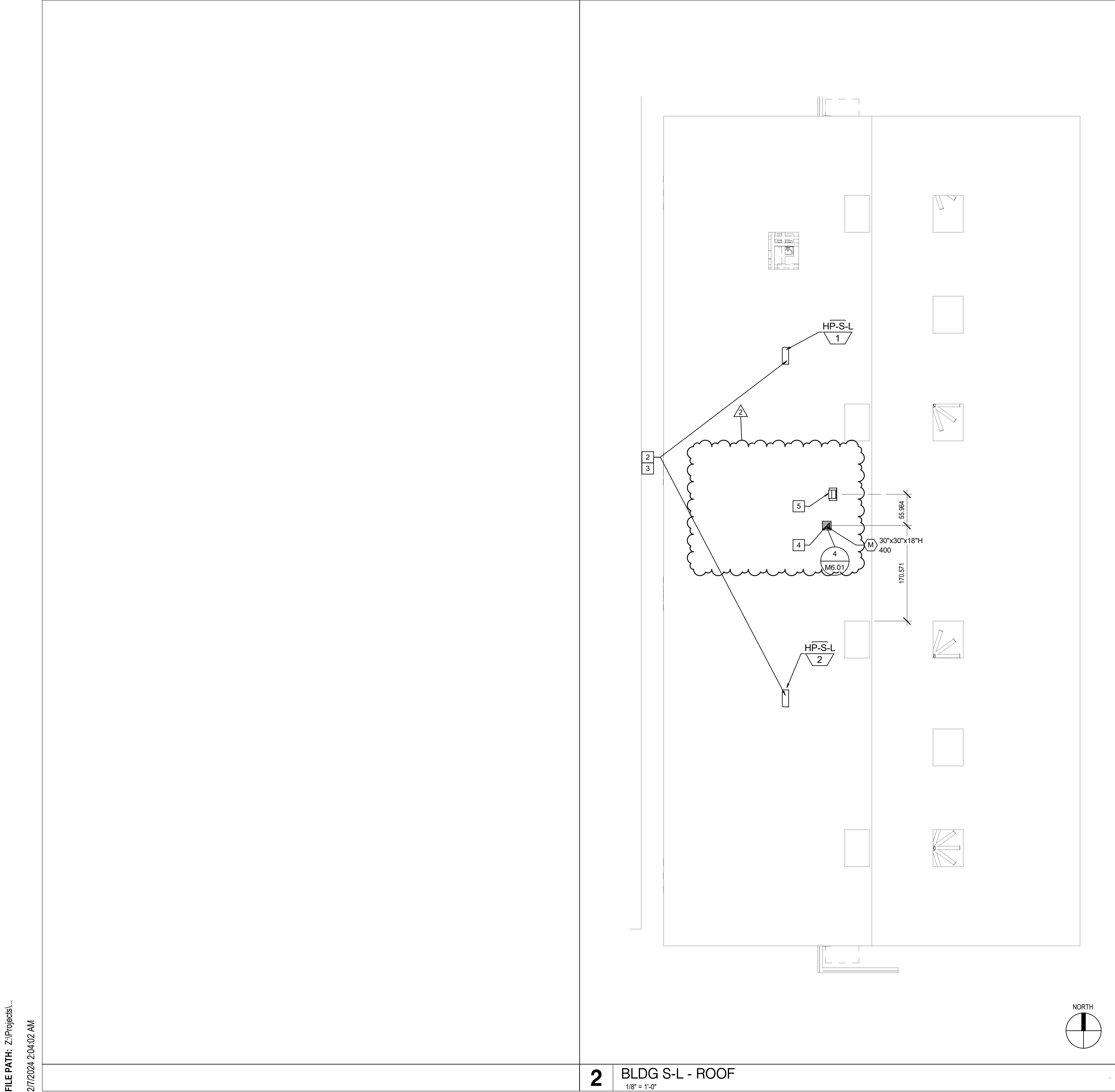
PENTHOUSE LOUVER FOR EXHAUST TERMINATION. TYPE M AIR OUTLET ON SLOPED ROOF CURB. RUN 10"x10" EXHAUST DUCT INTO LOUVER FROM STORAGE ROOM FAN.

5

PROVIDE 6"x8" SLOPED ROOF AIR INTAKE VENT WITH BIRDSCREEN.

GENERAL NOTES

1. ALL DIMENSIONS ON DUCTS REPRESENT THE NET AREA AVAILABLE TO AIRFLOW. FOR LINED DUCTS THIS IS THE DIMENSIONS FROM INSIDE TO INSIDE OF THE INSULATION. FOR SUPPLY DUCTS THE DIMENSIONS ARE FOR THE ACTUAL DUCT SIZE AND INSULATION WILL BE ON THE OUTSIDE OF THE DUCT. LINED DUCTS OUTSIDE THE BUILDING ENVELOPE SHALL HAVE 2" INTERNAL LINING. INSIDE THE ENVELOPE SHALL BE 1" INTERNAL LINING WHERE SHOWN ON THE PLANS.



ARCHITECT

ANAHEIM

2400 E. Katella Ave., Suite 550
Anaheim, CA 92806
P 949-546-5000

PBK Architects, Inc.

PBK.com

CONSULTANT

LEAF Engineers

LEAF ENGINEERS

8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909.857.0909
leafengineers.com

WARNER MIDDLE SCHOOL - MODERNIZATION PROJECT

PROJECT ADDRESS:
14171 NEWLAND ST
WESTMINSTER, CA 92683

DSA Submittal

DSA FILE NO.: 121954 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
REG. NO. 150155
Exp. 10-30-2024
DAVID HANG
STATE OF CALIFORNIA

ARCHITECT

CLIENT
WESTMINSTER SCHOOL DISTRICT
DATE 03/31/2023 PROJECT NUMBER 220526

REVISIONS

No.	Description	Date
2	ADDENDUM 02	02/07/2024

DSA Submittal

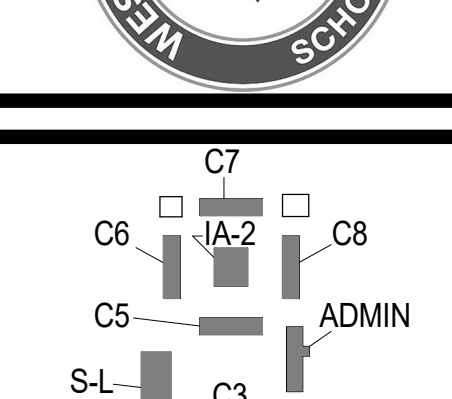
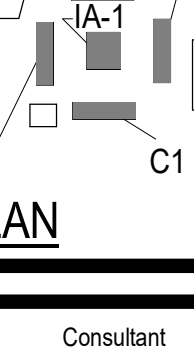
MECHANICAL BUILDING ROOF PLANS C7, C8, S-L & ADMIN

M4.01

ROOFTOP HEAT PUMP SCHEDULE																									POWER EXHAUSTER/ECONOMISER PACKAGE SCHEDULE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
UNIT	MANUFACTURER & MODEL NO.	SERVED	CFM	EXT. STATIC PRESS. (IN. W.G.)	COOLING CAPACITY (MBH) NOMINAL	HEATING CAPACITY (MBH) NOMINAL	COOLING SEER/EER	HEATING HSPF	AMBIENT TEMP. (°F)	FILTERS MERV 13	O.S.A. INTAKE (CFM)	AMBIENT TEMP. (°F)	ROOFTOP UNIT ELECTRICAL				POWER (W) / PH / HZ	OPER. WT. (BASE UNIT) (LBS.)	OPTIONS WT. (LBS.)	ROOF CURB WT. (LBS.)	REMARKS	UNIT	MANUFACTURER	MODEL NO.	CFM	EXT. STATIC PRESS. (IN. W.G.)	POWERED EXHAUST				INTERNALLY PROVIDED FUSES	POWER (VOLT)	OPER. WT. (LBS.)	REMARKS	TOTAL INSTALLED WT. (HP + OPTION CURB + ECONOMISER) W/ 8% SS (LBS.)	STRUCTURAL ANCHORAGE DETAILS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
													MCA	IFM (FLA)	MCA	FUSE OR HACR BRKR.	DISCONNECT SIZE											HP	FLA	MCA	MOCP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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VRF SYSTEM OUTDOOR HEAT RECOVERY UNIT SCHEDULE																						
UNIT	MANUFACTURER AND MODEL NO.	AREA SERVED	CAPACITY		CORRECTED CAPACITY		COP	COP	AMB. TEMP. (°F)		SCHE	E.E.R. I.E.E.R.	ELECTRICAL					OPER WT. (LBS)	REMARKS	STRUCTURAL ANCHORAGE DETAILS		
			NOMINAL COOLING (TOTAL) (MBH)	NOMINAL HEATING (MBH)	COOLING (TOTAL) (MBH)	NOMINAL HEATING (MBH)			SUMMER (DBWB)	WINTER (DB)			COMPRESSOR QTY.	OUTDOOR FAN QTY.	MCA	MOCP	RFS					VOLTAGE
HP A1	CARRIER 38VMA144RDL-5.1	ADMINISTRATION	144	160	144	160	3.79 @ 47 °F	NA @ 17°F	95/72	37.8	26.5	12.7/24.2	-	-	2	70	99	80	230V / 3Ø / 60HZ	1137	1, 2, 3, 4, 5, 6, 7, 8, 9	2 17 SD4 SD4
NOTES: 1. PROVIDE CRANKCASE HEATER, HIGH & LOW PRESSURE SWITCHES. 2. PROVIDE LOW AMBIENT KIT. 3. PROVIDE 3/4" EXPAND METAL CONDENSING COIL GUARD. 4. PROVIDE MINIMUM CLEARANCE AROUND EACH UNIT PER THE MANUFACTURER'S RECOMMENDATIONS. 5. SIZE REFRIGERANT (R410A) LINES PER MANUFACTURERS RECOMMENDATIONS. PROVIDE LONG LINE KIT IF REQUIRED. 6. PROVIDE HAL-GUARD 7. BOLTED TO CONCRETE PAD PER MANUFACTURERS INSTRUCTIONS 8. ALL HEAT PUMP UNITS ARE ROOF MOUNTED. 9. PROVIDE UNIT WITH HEAT RECOVERY.																						

UNIT	MANUFACTURER AND MODEL NO.	SERVICE/ LOCATION	TYPE	CAPACITY (MBH)		OSA TEMP. (°F)		COOLING		SUPPLY FAN		OUTSIDE AIR CFM		CAPACITY (MBH)		HEATING		ELECTRICAL				REMARKS	STRUCTURAL ANCHORAGE DETAILS	
				TOTAL COOLING NOMINAL	TOTAL HEATING NOMINAL	SUMMER (DB/WB)	WINTER (DB)	EAT. (°F) (DB/WB)	LAT. (°F) (DB/WB)	CFM (HML)	E.S.P. (IN.)			COOLING SENSIBLE /TOTAL	TOTAL HEATING	EAT. (°F) (DB)	LAT. (°F) (DB)	VOLTAGE	UNIT FLA	UNIT MCA	MOCP			OPER. WT. (LBS.)
FC 1	CARRIER 40VMM012A-3	PRINCIPAL A-10	CONCEALED DUCT	12.0	13.6	95.0/70.0	33.0	80.0/67.0	62.2	430	0.6	60	-	8.0/11.7	11.2	70	94.2	230V/1/60HZ	-	3.1	15	80	1, 2, 3, 4, 5, 6, 7, 8	4 SD3
FC 2	CARRIER 40VMM030A-3	RECEPTION / PUBLIC A-05 & A-01	CONCEALED DUCT	30.0	34.0	95.0/70.0	33.0	80.0/67.0	62.0	1070	0.6	30	-	29.3/20.4	28.3	70	94.5	230V/1/60HZ	-	5.0	15	125	1, 2, 3, 4, 5, 6, 7, 8	4 SD3
FC 3	CARRIER 40VMM024A-3	VICE PRINCIPAL A-08 & A-07	CONCEALED DUCT	24.0	27.0	95.0/70.0	33.0	80.0/67.0	60.7	800	0.6	145	-	16.3/23.4	22.5	70	96.0	230V/1/60HZ	-	3.1	15	100	1, 2, 3, 4, 5, 6, 7, 8	4 SD3
FC 4	CARRIER 40VMM015A-3	NURSES RM A-06	CONCEALED DUCT	15.0	17.0	95.0/70.0	33.0	80.0/67.0	61.8	535	0.6	25	-	10.3/14.7	14.2	70	94.5	230V/1/60HZ	-	3.1	15	100	1, 2, 3, 4, 5, 6, 7, 8	4 SD3
FC 5	CARRIER 40VMM030A-3	WORKSPACE/PRINT RM A-04 & 1-21	CONCEALED DUCT	30.0	34.0	95.0/70.0	33.0	80.0/67.0	62.0	1070	0.6	45	-	20.4/29.3	28.3	70	94.5	230V/1/60HZ	-	5.0	15	125	1, 2, 3, 4, 5, 6, 7, 8	4 SD3
FC 6	CARRIER 40VMM040A-3	TEACHERS LOUNGE A-02 & A-03	CONCEALED DUCT	48.0	54.0	95.0/70.0	33.0	80.0/67.0	57.6	1370	0.6	40	-	32.5/48.9	45.0	70	100.4	230V/1/60HZ	-	5.0	15	124	1, 2, 3, 4, 5, 6, 7, 8	4 SD3
NOTES: 1. PROVIDE WITH CONDENSATE DRAIN PAN (PRIMARY AND SECONDARY) FOR FAN COIL UNIT AND ASSOCIATED PIPING. 2. PROVIDE WITH FACTORY FURNISHED & INSTALLED CONDENSATE DRAIN LIFT PUMP (CONDENSATE PUMP SHALL BE POWERED THRU INDOOR FAN COIL UNIT). 3. SIZE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS. 4. PROVIDE T-24 COMPLIANT INTERNET PROGRAMMABLE THERMOSTAT "NT" MODEL XTC AND CONNECT TO EXISTING EMS. 5. PROVIDE DISCONNECT SWITCH. 6. PROVIDE WITH MEDIUM STATIC MOTOR. 7. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR AIR TEMPERATURE OF 70°F DB, OUTDOOR AIR TEMPERATURE OF 47°F DB / 43°F WB 8. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR AIR TEMPERATURE OF 80°F DB / 67°F WB, OUTDOOR AIR TEMPERATURE OF 95°F DB																								

PRK		
ARCHITECT ANAHEIM 2400 E. Katella Ave., Suite 950 Anaheim, CA 92806 P 949-546-9200	PRK Architects, Inc. PRK.com	
CONSULTANT		
 LEAF ENGINEERS		
8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.987.0909 leafengineers.com		
WARNER MIDDLE SCHOOL - MODERNIZATION PROJECT PROJECT ADDRESS: 14171 NEWLAND ST WESTMINSTER CA 92683 DSA Submittal		
DSA APPL NO.: 121954 DSA FILE NO.: 30-43		
		
 KEY PLAN		
Consultant		
		
Architect		
		
CLIENT WESTMINSTER SCHOOL DISTRICT		
DATE 03/31/2023	PROJECT NUMBER 220526	
REVISIONS		
No.	Description	Date
2	ADDENDUM 02	02/07/2024
DSA Submittal		
MECHANICAL SCHEDULES		

VRF HEAT RECOVERY MDC														
UNIT	MANUFACTURER & MODEL NO.	SERVICE	TYPE (MAIN / SUB)	NUMBER OF PORTS			MOTOR					OPER WT. (LBS)	REMARKS	STRUCTURAL ANCHORAGE DETAIL
								MCA	VOLT	PH				
MDC A1	CARRIER MODEL 40VD009M-3	CLASSROOM BLDG A HEATER ROOM	MAIN	6			0.73	208-230	1	60		132	NOTES 1, 2, 3, 4, 5	4 SD3
NOTES & OPTIONS: 1. FOR INDOOR UNITS WITH CAPACITIES GREATER THAN 54 MBH, TWO PORTS MUST BE TWINNED USING Y-JOINTS TO CREATE A SINGLE PORT. 2. UP TO 2 SUB MDCs CAN BE CONNECTED TO 1 MAIN MDC USING Y-JOINT ASSEMBLY. 3. NO PORT ASSIGNMENTS ARE NEEDED FOR COMMUNICATION WIRE BETWEEN IDUs AND MDC. 4. COMMUNICATION WIRING BETWEEN MDC AND IDUs SHALL USE "QUICK CONNECTS". 5. MAX IDU CAPACITY FOR STANDARD MAIN MDCs IS 324 MBH; FOR LARGE MAIN MDCs, IT IS 504 MBH. MAX IDU CAPACITY FOR A SINGLE SUB MDC IS 126 MBH. WHEN TWO SUB MDCs ARE CONNECTED, THEIR COMBINED MAX IDU CAPACITY IS 168 MBH.														

SPLIT SYSTEM HEAT PUMP SCHEDULE																																											
INDOOR FAN COILS																				OUTDOOR HEAT PUMPS										REMARKS	STRUCTURAL ANCHORAGE DETAILS												
UNIT	MANUFACTURER & MODEL NO.	AREA SERVED	CFM	EXT. STATIC PRESS. (IN. W.G.)	O.S.A INTAKE (CFM)	COOLING CAPACITY (TONS)	HEATING CAPACITY (MBH)	SEER/ EER	IEER	ENTERING CONDENSER TEMP. (°F)			HEATING CAPACITIES (MBH)		HSPF	COIL TEMPERATURES				COP		FILTERS	ELECTRICAL	OPER. WT. (LBS.)	REMARKS	STRUCTURAL ANCHORAGE DETAILS	UNIT MCA	MOCP MANUFACTURER & MODEL NO.	AMBIENT TEMP (°F) DB/WB			ELECTRICAL				POWER (VOLT)	OPER. WT. (LBS.)						
										SUMMER		WINTER	TOTAL	TOTAL		EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	@ 47 °F	@ 17 °F											FAN MOTOR		POWER SUPPLY	COMPRESSOR			FAN MAX. INPUT (W)					
										DB °F	WB °F	DB °F	@ 47 °F	@ 17 °F																		HP	VOLT						MCA	MFS	RLA		
AC SL1	CARRIER 48MBDQ12--3	OFFICE SL-115	400	0.6	40	1.0	12.0	21.5/13.0	NA	98.0	89.0	39.2	12.9	8.35	11.5	75.9	65.6	61.2	60.2	3.52	2.0	2 IN.	1.11 MCA	208/1PH	44	4, 5, 9, 10, 11 & 12	4B SD3	HP SL1	CARRIER 38MARBQ12AA3	104/70				15	25	8.5	100.3	208V/1PH60HZ	74	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 & 13	4B SD3	16 SD3	2 SD2
AC SL2	CARRIER 48MBDQ12--3	OFFICE SL-103	400	0.6	40	1.0	12.0	21.5/13.0	NA	98.0	89.0	39.2	12.9	8.35	11.5	81.7	65.6	60.2	58.1	3.52	2.0	2 IN.	1.11 MCA	208/1PH	44	4, 5, 9, 10, 11 & 12	4B SD3	HP SL2	CARRIER 38MARBQ12AA3	104/70				15	25	8.5	100.3	208V/1PH60HZ	74	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 & 13	4B SD3	16 SD3	2 SD2

NOTES:

1. PROVIDE CRANKCASE HEATER, HIGH & LOW PRESSURE SWITCHES.

2. PROVIDE LOW AMBIENT KIT.

3. MOUNT ON MOUNTING PAD DIVERSITECH E LITE PLASTIC EQUIPMENT PAD ON TOP OF 1/2" NEOPRENE. 18" x 36" x 3" PAD.

4. PROVIDE MINIMUM CLEARANCE AROUND EACH UNIT PER THE MANUFACTURERS RECOMMENDATIONS.

5. SIZE REFRIGERANT (R410A) LINES PER MANUFACTURERS RECOMMENDATIONS. PROVIDE LONG LINE KIT IF REQUIRED.

6. PROVIDE HAIL-GUARD.

7. ALL HEAT PUMP UNITS ARE ROOF MOUNTED.

8. SEE STRUCTURAL DRAWINGS FOR ANCHORAGE DETAILS.

9. POWERED FROM OUTDOOR UNIT.

■

WALL MOUNTED AC UNITS & HEAT PUMPS

NOT TO SCALE

SYMBOL	TYPE	MAKE & MODEL	DESCRIPTION	REMARKS
(A)	CEILING SUPPLY	PRICE MODEL SPD	SQUARE PLAQUE DIFFUSER WITH FRAME FOR SURFACE MOUNTING. ALUMINUM, FLUSH FACE MOUNTING. ROUND INLET. 24x24 SIZE.	NOTES 1, 3, 5
(B)	CEILING SUPPLY	PRICE MODEL SPD	SQUARE PLAQUE DIFFUSER FOR T-BAR MOUNTING. ALUMINUM, FLUSH FACE MOUNTING. ROUND INLET. 24x24 SIZE.	NOTES 1, 3, 5
(C)	SIDEWALL RETURN OR EXHAUST	PRICE MODEL 535L	LOUVERED RETURN OR EXHAUST GRILLE WITH FIXED BLADES AT 45 DEGREES. ALUMINUM, RAPID MOUNT FRAME MODEL TRIM FOR SURFACE MOUNTING.	NOTES 1, 3, 5
(D)	CEILING RETURN OR EXHAUST	PRICE MODEL 535L	LOUVERED RETURN OR EXHAUST GRILLE WITH FIXED BLADES AT 45 DEGREES. ALUMINUM, RAPID MOUNT FRAME MODEL TRIM FOR SURFACE MOUNTING.	NOTES 1, 3, 5
(E)	CEILING RETURN OR EXHAUST	PRICE MODEL 535L	LOUVERED RETURN OR EXHAUST GRILL WITH FIXED BLADES AT 45 DEGREES. ALUMINUM, RAPID MOUNT FRAME MODEL TRIM FOR T-BAR MOUNTING. ALL SIZES ARE 24" x 12" FACE SIZE OR AS NOTED ON THE PLANS.	NOTES 1, 3, 5
(G)	SIDEWALL SUPPLY	PRICE MODEL	DOUBLE DEFLECTION SUPPLY, ALUMINUM, SURFACE MOUNTING. FLUSH FACE MOUNTING. OPPOSED BLADE DAMPERS. OFF WHITE.	NOTES 1, 3
(H)	CEILING SUPPLY	PRICE MODEL SPD	SQUARE PLAQUE DIFFUSER WITH FRAME FOR SURFACE MOUNTING. ALUMINUM, FLUSH FACE MOUNTING. ROUND INLET. 12x12 SIZE.	NOTES 1, 3, 5
(L)	INTAKE OR EXHAUST LOUVER	GREENHECK MODEL ESD-415	EXTRUDED ALUMINUM LOUVER, C/W BIRDSCREEN. FOXED BLADES. 4" WIDE. MOUNTING FLANGES. PRIME COATED.	NOTES 1, 3, 4
(M)	PENTHOUSE LOUVER	GREENHECK MODEL WRH	EXTRUDED ALUMINUM PENTHOUSE LOUVER, C/W INSECT SCREEN. FIXED BLADES. 4" WIDE BLADES. ROOF CURB. PRIME COATED. 20"Wx20"Lx16"H WITH SLOPED CURB. WT. 72 POUNDS.	NOTES 1, 3, 4

NOTES:

1. REFER TO THE FLOOR PLAN OR RISE FOR MAKE, DIFFUSION PATTERN AND PRIME COLOR, IF REQUIRED.
2. ARCHITECT TO SELECT COLOR ON SUBMITTALS.
3. PROVIDE 2" FILTERS (MERV 13) IN INLET LOUVER TO SF-A1 IN ADMINISTRATION BLDG.
4. REFER TO SUPPORT DETAIL 16 ON M6.01.

PBK

PBK Architects, Inc.
PBK.com

ARCHITECT
 ANAHEIM
 2400 E. Katella Ave., Suite 950
 Anaheim, CA 92806
 P 949-548-5000

CONSULTANT
LEAF ENGINEERS

 8163 Rochester Avenue, Suite 100
 Rancho Cucamonga, CA 91730
 909-967-0909
 leafengineers.com

WARNER MIDDLE SCHOOL - MODERNIZATION PROJECT

PROJECT ADDRESS:
 14711 NEWLAND ST
 WESTMINSTER CA 92683
DSA Submittal
 DSA FILE NO.: 30-43
 DSA APPL NO.: 121954

KEY PLAN

Consultant

Architect

CLIENT

WESTMINSTER SCHOOL DISTRICT
 DATE
 03/31/2023

PROJECT NUMBER
 220626

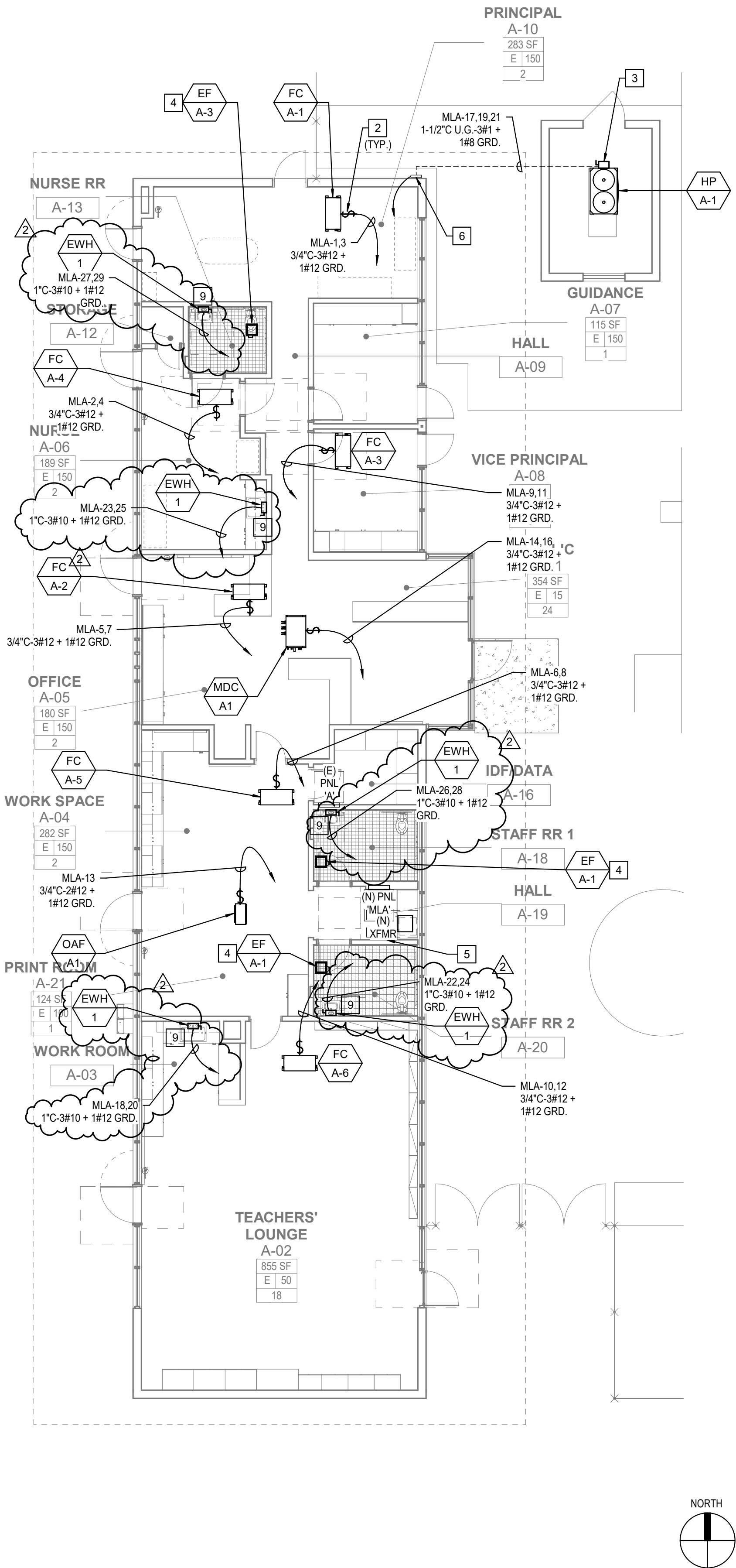
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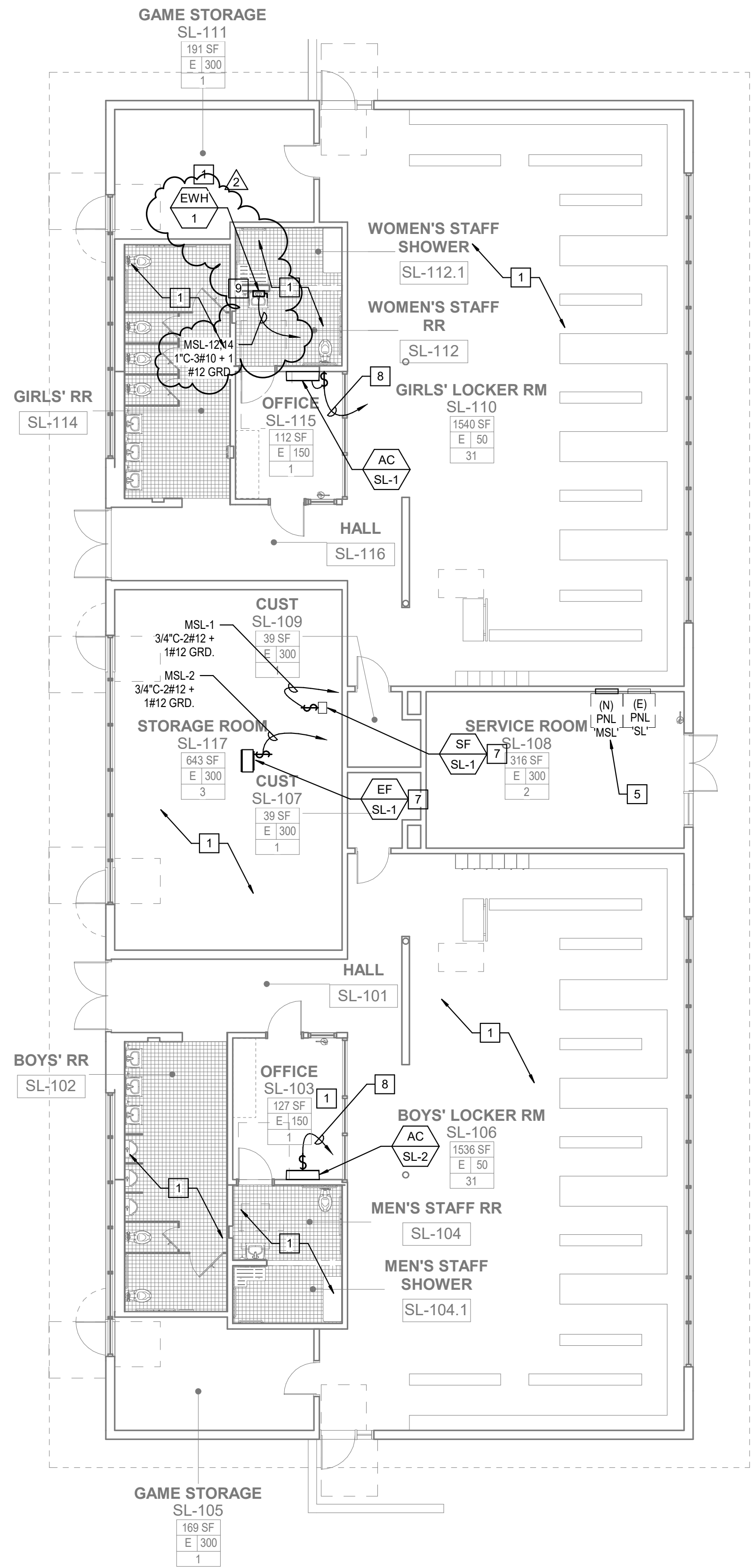
MECHANICAL SCHEDULES

M5.02

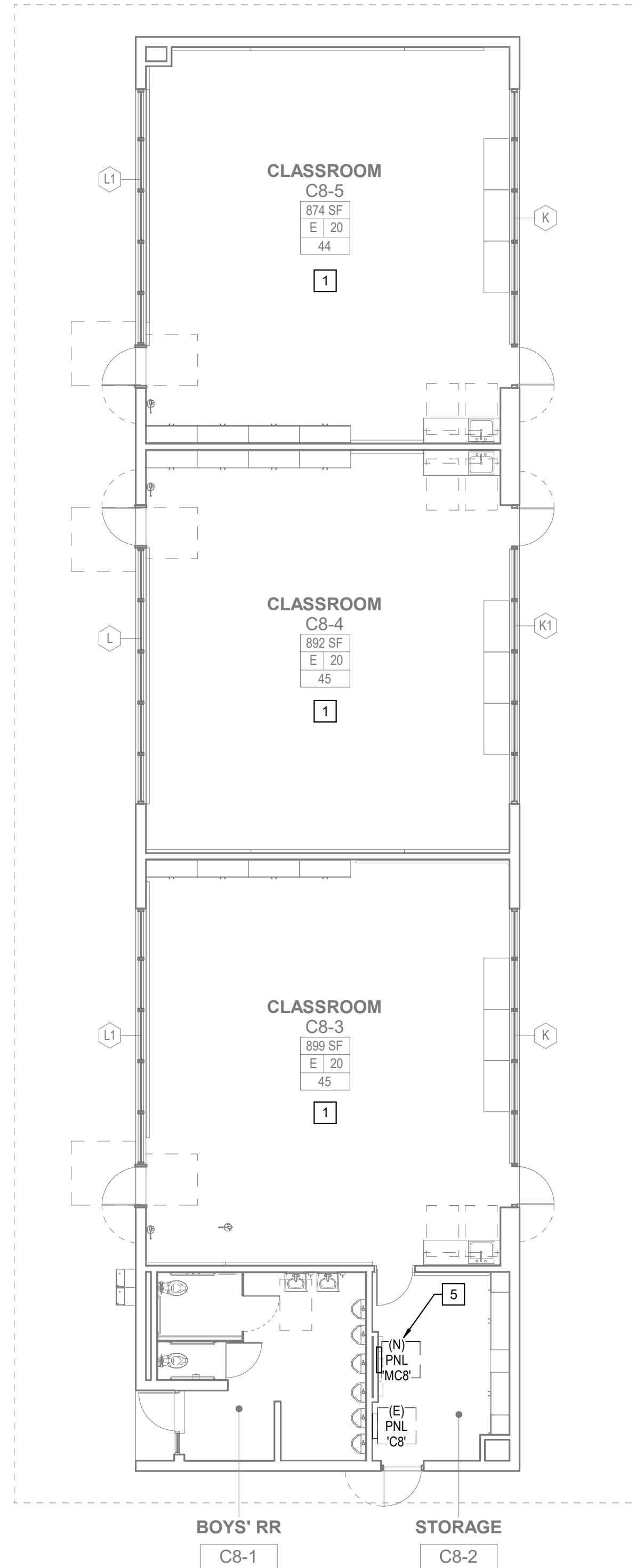
3 FLOOR PLAN - ADMINISTRATION BLDG
1/8" = 1'-0"



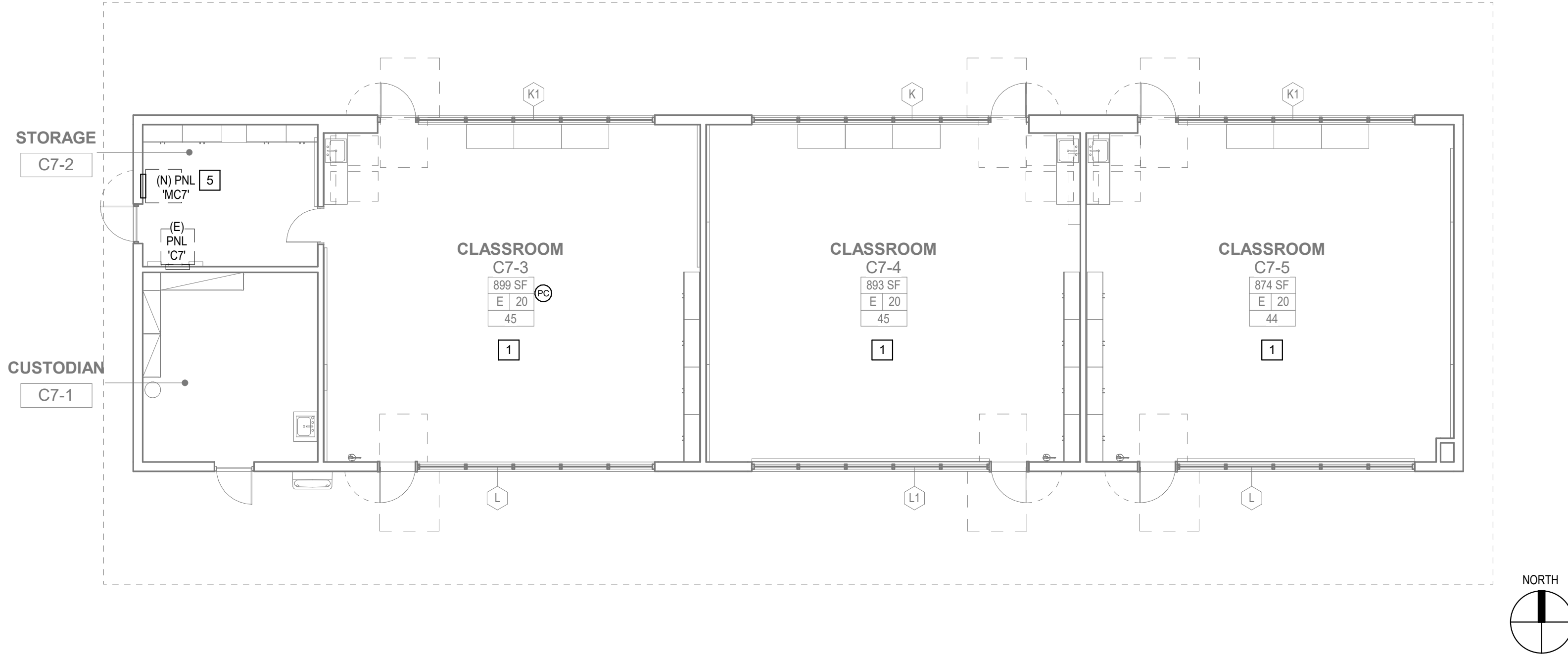
2 FLOOR PLAN - BLDG S-L
1/8" = 1'-0"



1 FLOOR PLAN - BLDG C8
1/8" = 1'-0"



4 FLOOR PLAN - BLDG C7
1/8" = 1'-0"



GENERAL NOTES

1. THE EXISTING BUILDING INCLUDING PORTIONS OF THE RENOVATED AREA SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COORDINATED AND PRE-SCHEDULED WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY WORK.
2. ALL EXISTING CEILING MOUNTED DEVICES SHALL BE REMOVED, STORED AND PROTECTED FOR RE-INSTALLATION.

KEY NOTES

1. EXISTING POWER/DATA OUTLETS SHALL REMAIN AND BE PROTECTED IN PLACE. (TYP.)
2. PROVIDE 208V/1PH POWER CONNECTION TO LOCAL DISCONNECT SWITCH PROVIDED BY MECHANICAL, WIRED BY ELECTRICAL.
3. PROVIDE 208V/3PH POWER CONNECTION TO 100A/3P/NF/NEMA 3R DISCONNECT SWITCH FOR HEAT PUMP.
4. EXTEND (E) LIGHTING CIRCUIT TO (N) EXHAUST FAN. INTERLOCK WITH LIGHTING SWITCH. SEE MECHANICAL FAN SCHEDULE NOTE #5 ON SHEET M5.02.
5. NEW 208V/120V-3PH PANEL DEDICATED TO NEW MECHANICAL EQUIPMENT.
6. NEW WALL MOUNTED PULLBOX. 12"x12"xDEPTH REQ'D.
7. PROVIDE 120V CONNECTION TO FAN/S. INSTALL LOCAL DISCONNECT SWITCH.
8. PROVIDE 208V/1PH POWER CONNECTION TO LOCAL DISCONNECT SWITCH. INDOOR UNIT IS POWERED FROM OUTDOOR UNIT. 3/4"C-3/8"2 + 1/8"2 GRD. STUB UP TO OUTDOOR UNIT CALLOUT.
9. PROVIDE 208V/1PH POWER CONNECTION WITH LOCAL DISCONNECT SWITCH TO NEW 'EWH-1' UNITS. SEE PLUMBING PLANS FOR EXACT LOCATION AND ADDITIONAL INFORMATION.



ARCHITECT ANAHEIM PBK Architects, Inc.
2400 E. Katella Ave., Suite 950
Anaheim, CA 92806
P 949-546-5000

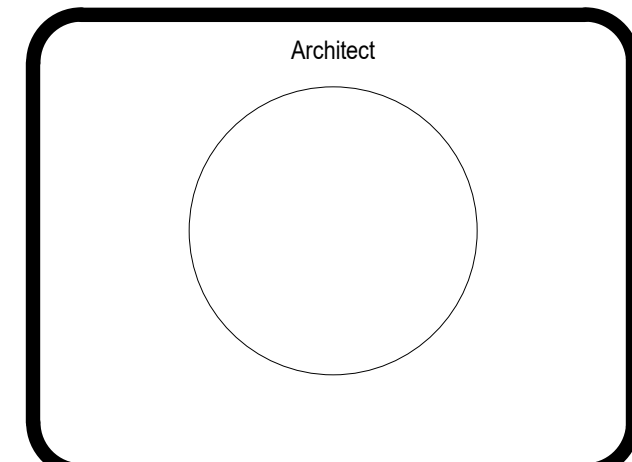
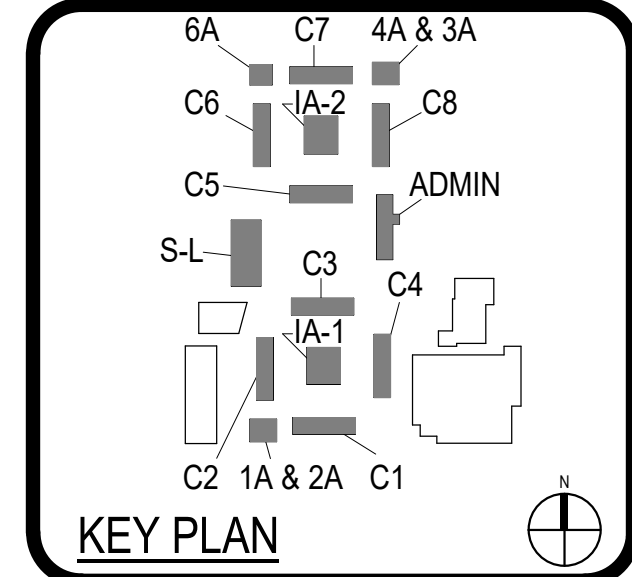
CONSULTANT LEAF Engineers
8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909-857-0909
leafengineers.com

WARNER MIDDLE SCHOOL - MODERNIZATION PROJECT

PROJECT ADDRESS:
14171 NEWLAND ST
WESTMINSTER, CA 92683

DSA Submittal

DSA APPL. NO. - 121854 DSA FILE NO. - 30-43



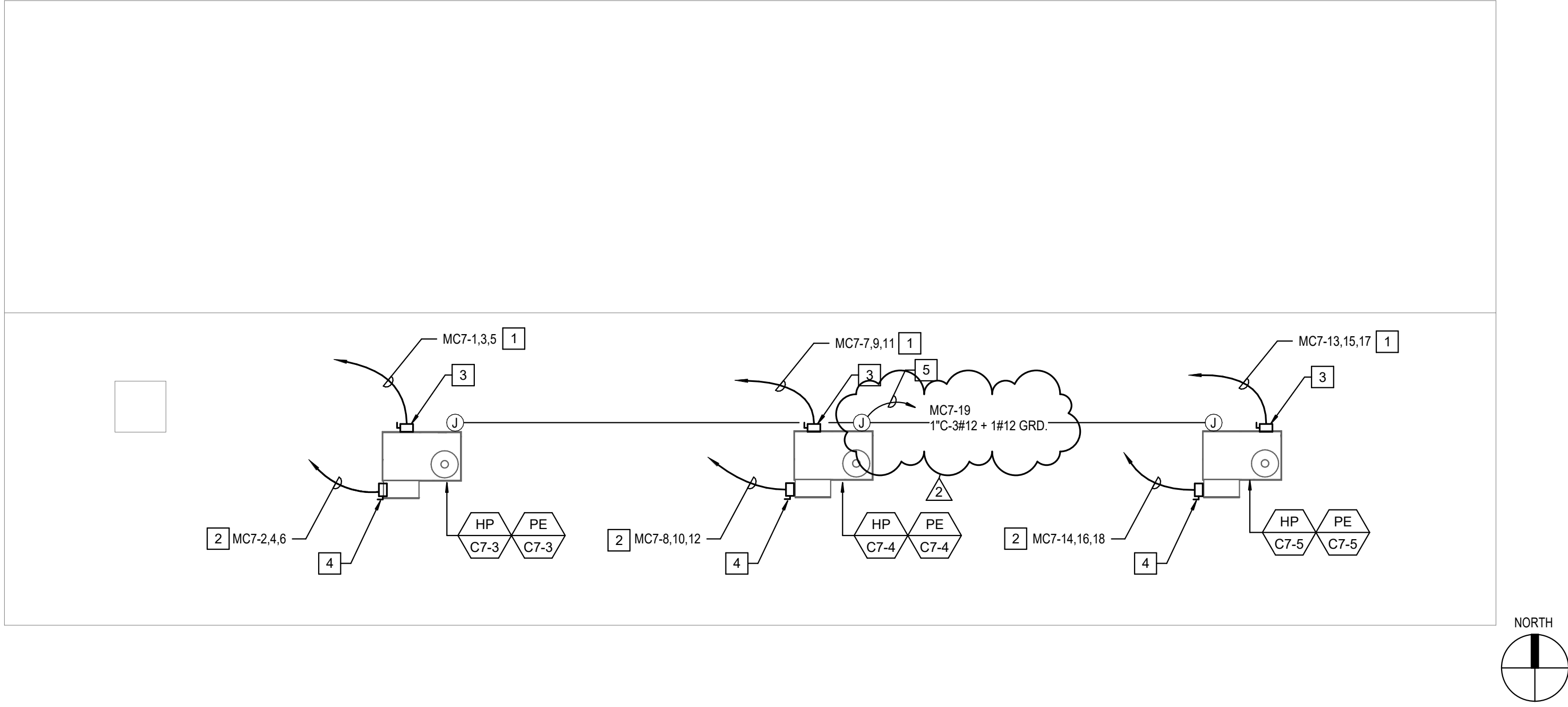
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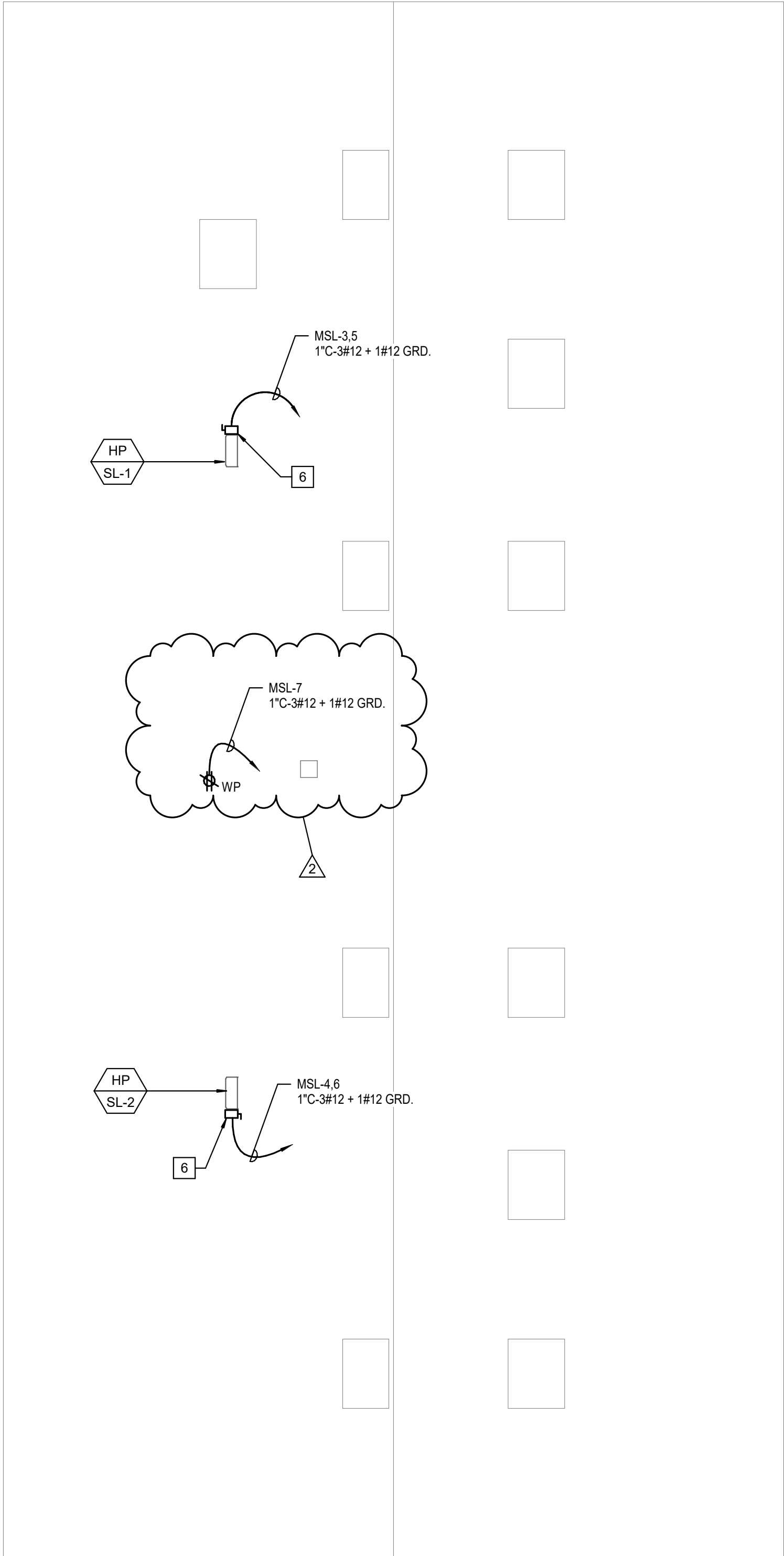
ELECTRICAL BUILDING FLOOR PLANS C7, C8, S-L & ADMIN

0"
1"

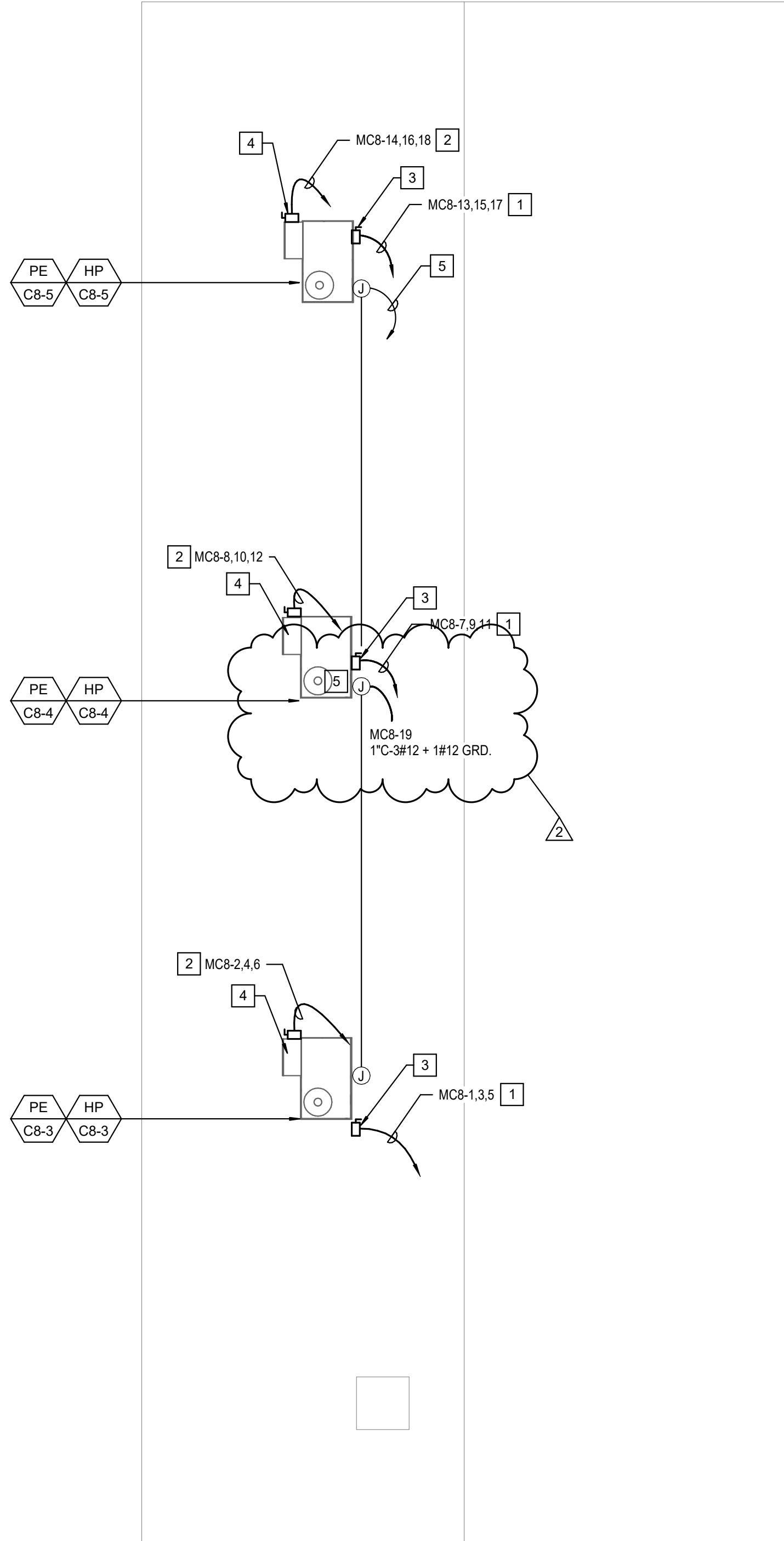
3 ROOF PLAN - BLDG C7
1/8" = 1'-0"



2 ROOF PLAN - BLDG S-L
1/8" = 1'-0"



1 ROOF PLAN - BLDG C8
1/8" = 1'-0"



GENERAL NOTES

1. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.

KEY NOTES

- 1 PROVIDE 208V/3PH POWER CONNECTION TO HEAT PUMP, 3/4"C - 3 #6 + 1 #10 GRD.
- 2 PROVIDE 208/3PH POWER CONNECTION TO POWER EXHAUST, 3/4"C - 3 #12 + 1 #12 GRD.
- 3 NON-FUSED DISCONNECT SWITCH, NEMA 3R FACTORY MOUNTED BY MECHANICAL. SEE MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION. TYPICAL.
- 4 PROVIDE NON-FUSED NEMA-3R/30A/2P DISCONNECT SWITCH FOR POWER EXHAUST. TYPICAL.
- 5 PROVIDE 120V POWER CONNECTION TO FACTORY MOUNTED WPI/GFCI CONVENIENCE OUTLET. CONNECT TO NEAREST 120V CIRCUIT, NOT TO EXCEED 16 AMPS.
- 6 PROVIDE NON-FUSED NEMA-3R/30A/2P DISCONNECT SWITCH FOR HEAT PUMP "HP-SL" AND "HP-SLZ".



ARCHITECT
ANAHEIM
2400 E. Katella Ave., Suite 950
Anaheim, CA 92806
P 949-546-5000
PBK.com

PBK Architects, Inc.
PBK.com

CONSULTANT
LEAF Engineers

8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909.987.0909
leafengineers.com

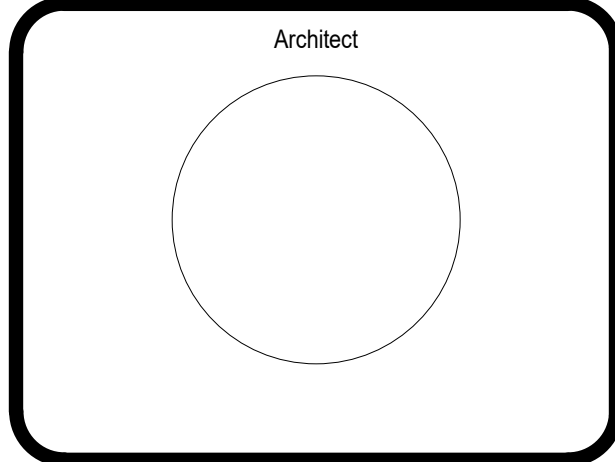
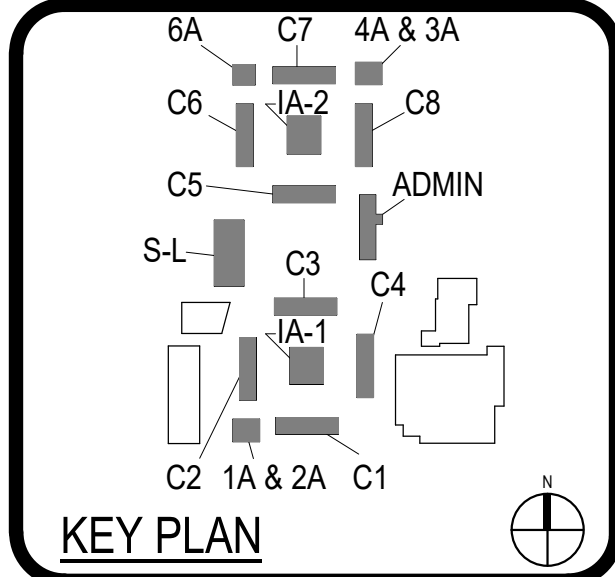
PROJECT ADDRESS:
14171 NEWLAND ST
WESTMINSTER, CA 92683

DSA Submittal

DSA FILE NO.: 121954 DSA FILE NO.: 30-43

WESTMINSTER SCHOOL DISTRICT

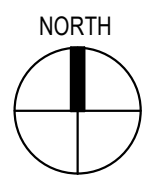
WARNER MIDDLE SCHOOL - MODERNIZATION PROJECT



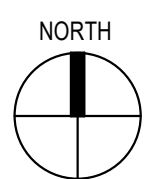
CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
03/31/2023	220526	
REVISIONS		
No.	Description	Date
2	ADDENDUM 02	02-07-2024

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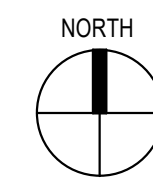
ELECTRICAL BUILDING
ROOF PLANS C7, C8, S-L
& ADMIN



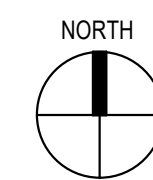
NORTH

A circular compass rose with a vertical line through the center. The top half is shaded black and labeled 'NORTH'. The bottom half is white and labeled 'SOUTH'. The left half is white and labeled 'WEST'. The right half is white and labeled 'EAST'.

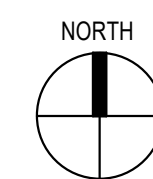
1	ROOF PLAN - BLDG C1 1/8" = 1'-0"
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ROOF PLAN - BLDG C1
1/8" = 1'-0"



1	ROOF PLAN - BLDG C1 1/8" = 1'-0"
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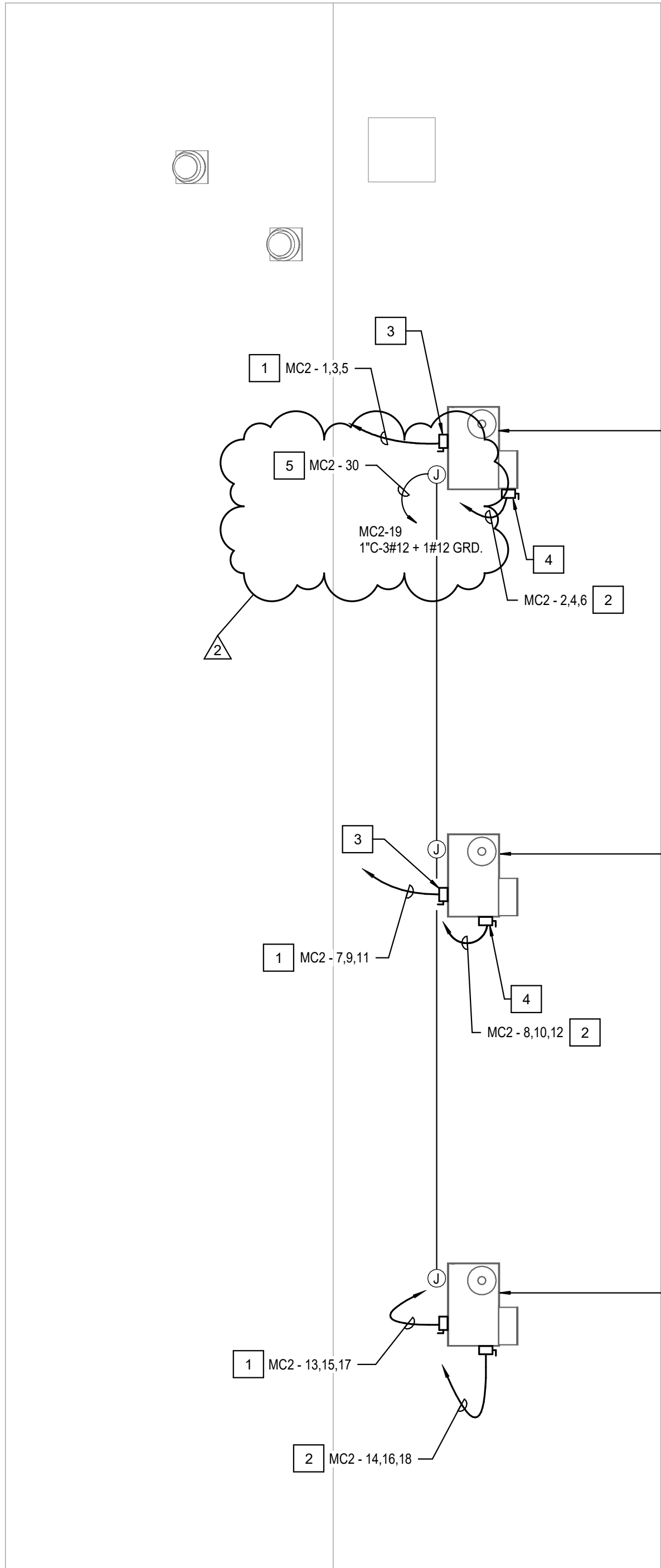


KEY NOTES

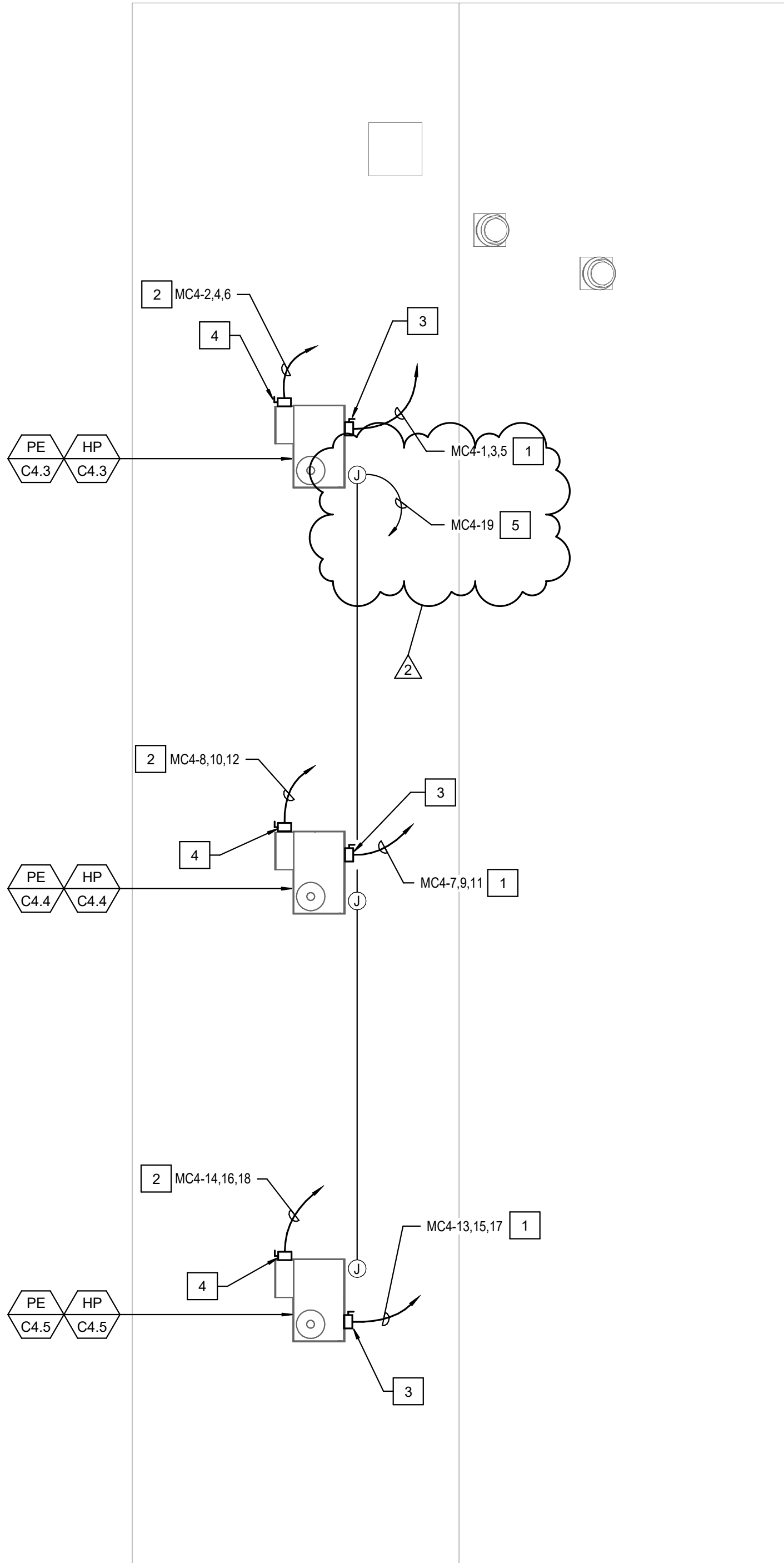
- | | |
|---|---|
| 1 | PROVIDE 208V/1PH POWER CONNECTION TO HEAT PUMP, 3/4"- 3 #8 + 1 #10 GRD. |
| 2 | PROVIDE 208/3PH POWER CONNECTION TO POWER EXHAUST, 3/4"- 3 #12 + 1 #12 GRD. |
| 3 | NON-FUSED DISCONNECT SWITCH, NEMA 3R FACTORY MOUNTED BY MECHANICAL. SEE MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION. TYPICAL. |
| 4 | PROVIDE NON-FUSED NEMA-3R/30A/3PH DISCONNECT SWITCH FOR POWER EXHAUST. TYPICAL. |
| 5 | PROVIDE 120V POWER CONNECTION TO FACTORY MOUNTED VV/GFCI CONVENIENCE OUTLET. CONNECTION TO NEAREST 120V CIRCUIT. NOT TO EXCEED 16 AMPS. |

E4.02

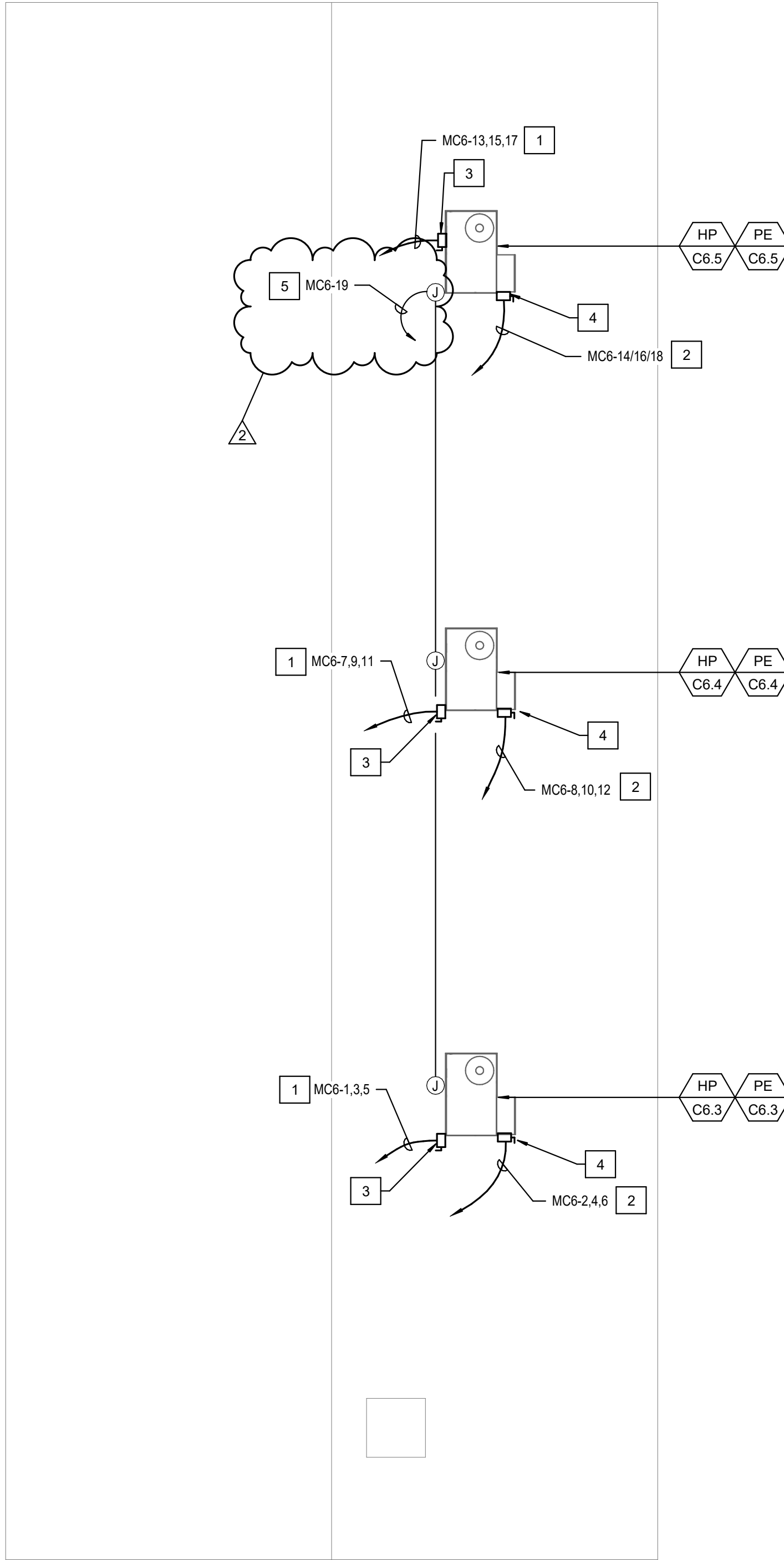
0" 1"



3 ROOF PLAN - BLDG C2
1/8" = 1'-0"



2 ROOF PLAN - BLDG C4
1/8" = 1'-0"



1 ROOF PLAN - BLDG C6
1/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO PROVIDE CONNECTION FROM EXHAUST FANS TO ALL MOTORIZED BACKDRAFT DAMPERS AS REQUIRED, COORDINATE WITH MECHANICAL.

KEY NOTES

- 1 PROVIDE 208V/3PH POWER CONNECTION TO HEAT PUMP, 3/4"C - 3 #6 + 1 #10 GRD.
- 2 PROVIDE 208/3PH POWER CONNECTION TO POWER EXHAUST, 3/4"C - 3 #12 + 1 #12 GRD.
- 3 NON-FUSED DISCONNECT SWITCH, NEMA 3R FACTORY MOUNTED BY MECHANICAL. SEE MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION, TYPICAL.
- 4 PROVIDE NON-FUSED NEMA-3R/30A/3PH DISCONNECT SWITCH FOR POWER EXHAUST.
- 5 PROVIDE 120V POWER CONNECTION TO FACTORY MOUNTED WPI/GFCI CONVENIENCE OUTLET. CONNECT TO NEAREST 120V CIRCUIT, NOT TO EXCEED 16 AMPS.



ARCHITECT ANAHEIM PBK Architects, Inc. 2400 E. Katella Ave., Suite 550 Anaheim, CA 92806 P 949-546-5000

CONSULTANT LEAF Engineers 8163 Rochester Avenue, Suite 100 Rancho Cucamonga, CA 91730 909.867.0909 leafengineers.com

WARNER MIDDLE SCHOOL - MODERNIZATION PROJECT

PROJECT ADDRESS: 14171 NEWLAND ST WESTMINSTER CA 92683

DSA Submittal

DSA APPL. NO. 121954 DSA FILE NO. 30-43

WESTMINSTER SCHOOL DISTRICT

KEY PLAN

Map showing building footprints C2, C4, and C6 with a north arrow.

Consultant

REGISTERED PROFESSIONAL ENGINEER No. E 23576 State of California

Architect

Empty circle for architect stamp.

CLIENT		
WESTMINSTER SCHOOL DISTRICT		
DATE	PROJECT NUMBER	
03/31/2023	220526	
REVISIONS		
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DSA Submittal

ELECTRICAL BUILDING ROOF PLANS C2, C4 & C6

Mounting**RECESSED**

Main Type**MCB (22SA)**

Neutral**100%**

Job:WARNER MOD.

Job No:220925

AIC Rating**10000**

Voltage:

Main Size:

480Y/277V-3PH-4W

22S AMPS

Ground:

SINGLE

Equipment Ground

PANEL

MC1

Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Ckt No	In	Ckt No	Wire	Amp/P	Description	Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		6287					0.0	HP-C1.3	503	#6	1	A	2	#12	15/3	PE-C1.3			537					0.0
		6287					0.0	-	-	3	B	4	-	-	-	-			537					0.0
		6287					0.0	-	-	5	C	6	-	-	-	-			537					0.0
		6287					0.0	HP-C1.4	504	#6	7	A	8	#12	15/3	PE-C1.4			537					0.0
		6287					0.0	-	-	9	B	10	-	-	-	-			537					0.0
		6287					0.0	-	-	11	C	12	-	-	-	-			537					0.0
		6287					0.0	HP-C1.5	505	#6	13	A	14	#12	15/3	PE-C1.5			537					0.0
		6287					0.0	-	-	15	B	16	-	-	-	-			537					0.0
		6287					0.0	-	-	17	C	18	-	-	-	-			537					0.0
		6287					0.0	ROOF RECEP	201	12	V	A	20	-	-	SPACE			537					0.0
		6287					0.0	SPACE			21	B	22	-	-	SPACE			537					0.0
		6287					0.0	SPACE			23	C	24	-	-	SPACE			537					0.0
		6287					0.0	SPACE			25	A	26	-	-	SPACE			537					0.0
		6287					0.0	SPACE			27	B	28	-	-	SPACE			537					0.0
		6287					0.0	SPACE			29	C	30	-	-	SPACE			537					0.0
0	200	56580	0	0	0	0	0	TOTALS								TOTALS	0	0	4830	0	0	0	0	0

<

Mounting**RECESSED**

Main Type**MCB (22SA)**

Neutral**100%**

Job-WARNER MOD.

Job No: 220526

AIC Rating **10000**

Ground
Equipment Ground
Lugs:**SINGLE**

PANEL MC2

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Ct. No.	Ph	Ct. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		6287					0.0	HP-C2.3	503	#6	1	A	2	#12	15/3	PE-C2.3			537					0.0
		6287					0.0	-	-	3	B	4	-	-	-	-			537					0.0
		6287					0.0	-	-	5	C	6	-	-	-	-			537					0.0
		6287					0.0	HP-C2.4	504	#6	7	A	8	#12	15/3	PE-C2.4			537					0.0
		6287					0.0	-	-	9	B	10	-	-	-	-			537					0.0
		6287					0.0	-	-	11	C	12	-	-	-	-			537					0.0
		6287					0.0	HP-C2.5	505	#6	13	A	14	#12	15/3	PE-C2.5			537					0.0
		6287					0.0	-	-	15	B	16	-	-	-	-			537					0.0
		6287					0.0	-	-	17	C	18	-	-	-	-			537					0.0
		6287					0.0	ROOF RECEP	201	12	30	A	20			SPACE			20					0.0
		6287					0.0	SPACE		21	B	22				SPACE			20					0.0
		6287					0.0	SPACE		23	C	24				SPACE			20					0.0
		6287					0.0	SPACE		25	A	26				SPACE			20					0.0
		6287					0.0	SPACE		27	B	28				SPACE			20					0.0
		6287					0.0	SPACE		29	C	30				SPACE			20					0.0
TOTALS																TOTALS	0	0	0	4830	0	0	0	0

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.2	61.4	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.2	61.4	0.0	0.0	0.0	0.0	0.0	*Design KVA

Phase Load

Ph	KVA
A	20.5
B	20.5
C	20.5

*Input div. factor per descriptions as required for calculations.
**100% of 1st 10 KVA, 50% of remaining.

Panel Remarks:

NEW PANEL

PANEL MC2

Con KVA	Con Amps	Dis KVA	Dis Amps
61.8	74.1	61.6	74.1

Date: 2/8/2024

By: N OROPEZA

[illegible]

Mounting**RECESSED**

Main Type=**MCB (ZSA)**

Neutral**100%**

Job #WARMER MOD

Job No 220526

Voltage: **480Y/277V 3PH 4W**

Main Size: **Z25 AMPS**

AIC Rating **10000**

Ground _____

Lugs**SINGLE**

PANEL **MC4**

Ltg.

Recept

Motor

Heat

Cool

Other

Kitchen

S/S

Description

Amp/P

Wire

#/

1

A

2

#/2

15/3

Description

Ltg.

Recept

Motor

Heat

Cool

Other

Kitchen

S/S

6287

0.0

HP-C4.3

1

-

-

3

B

4

-

-

PE-C4.3

0.0

6287

0.0

-

-

5

C

6

-

-

0.0

6287

0.0

HP-C4.4

5003

#/

7

A

8

#12

15/3

PE-C4.4

0.0

6287

0.0

-

-

9

B

10

-

-

0.0

6287

0.0

-

-

11

C

12

-

-

0.0

6287

0.0

HP-C4.5

5003

#/

13

A

14

#12

15/3

PE-C4.5

0.0

6287

0.0

-

-

15

B

16

-

-

0.0

6287

0.0

-

-

17

C

18

-

-

0.0

200

0.0

ROOF RECEPT

200

12

19

A

20

SPACE

0.0

0.0

SPACE

0.0

0.0

SPACE

0.0

0.0

SPACE

0.0

0.0

SPACE

0.0

0

200

56580

0

0

0

0

0

0

TOTALS

TOTALS

0

0

4830

0

0

0

0

0

0

LOAD SUMMARY

Ltg.

Recept

Motor

Heat

Cool

Other

Kitchen

S/S

Description

0.0

0.2

61.4

0.0

0.0

0.0

0.0

0.0

Connected KVA

1.25

--

1.00

1.00

1.00

0.00

0.00

0.00

Design KVA

0.0

0.2

61.4

0.0

0.0

0.0

0.0

0.0

Design KVA

Phase Load

Ph

KVA

A

20.5

B

20.5

C

20.5

Panel Remarks:

NEW PANEL

Con

KVA

Con

Amps

Des

KVA

Des

Amps

TOTAL

61.6

74.1

61.6

74.1

Date: 2/8/2024

By: N OROPEZA

PANEL **MC4**

Mounting**RECESSED**

Main Type**MCB (225A)**

Neutral**100%**

Job-WARNER MOD.

Job No 220526

AIC Rating**10000**

Voltage

480Y/277V-3PH 4W

Main Size:

225 AMPS

Ground

Equipment Ground

Lugs

SINGLE

PANEL		RCS		Motor		Heat		Cool		Other		Kitchen		S/S		Description		Amp/P	Wire	Ct. No.	Rt.	Ct. No.	Wire	Amp/P	Description	Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	
															0.0	HP-CS.3	50/3	#6	1	A	2	#12	15/3	PE-CS.3			0	537				0.0		
															0.0	-	-	3	B	4	-	-	-			0	537				0.0			
															0.0	-	-	5	C	6	-	-	-			0	537				0.0			
															0.0	HP-CS.4	50/3	#6	7	A	8	#12	15/3	PE-CS.4			0	537				0.0		
															0.0	-	-	9	B	10	-	-	-			0	537				0.0			
															0.0	-	-	11	C	12	-	-	-			0	537				0.0			
															0.0	HP-C5.5	50/3	#6	13	A	14	#12	15/3	PE-C5.5			0	537				0.0		
															0.0	-	-	15	B	16	-	-	-			0	537				0.0			
															0.0	ROOF RECEP	20/1	12	17	C	18	-	-	-			0	537				0.0		
															0.0	SPACE			19	A	20	-	-	SPACE			0	537				0.0		
															0.0	SPACE			21	B	22	-	-	SPACE			0	537				0.0		
															0.0	SPACE			23	C	24	-	-	SPACE			0	537				0.0		
															0.0	SH-CH			25	A	26	-	-	SPACE			0	537				0.0		
															0.0	SPACE			27	B	28	-	-	SPACE			0	537				0.0		
															0.0	SPACE			29	C	30	-	-	SPACE			0	537				0.0		
															0.0	TOTALS									TOTALS	0	0	4830	0	0	0	0	0	0.0
0	200	56580	0	0	0	0	0	0	0	0	0	0	0	0	0	TOTALS									TOTALS	0	0	4830	0	0	0	0	0	0.0

LOAD SUMMARY

Phase Load

Ph

KVA

A

20.5

B

20.5

C

20.5

Panel Remarks:

NEW PANEL

Con

KVA

Con

Amps

Des

KVA

Des

Amps

61.6

74.1

61.6

74.1

Date:

2/8/2024

By:

N. OROPEZA

Panel

MC5

*Input div. factor per descriptions as required for calculations.

**100% of 1st 10 KVA, 50% of remaining.

Mounting**RECESSED**

Main Type**MCB (22SA)**

Neutral**100%**

Job:WARNER MOD.

Job No:220526

AIC Rating**10000**

Voltage:
Main Size:

480Y/277V 3W 4W
225 AMPS

Ground

Equipment Ground

Lugs**SINGLE**

PANEL **MC6**

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Or. No.	Ph	Or. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
	6267						0.0	HP-C6.3	50/3	#6	1	A	2	#12	15/3	PE-C6.3								0.0
	6267						0.0	-			3	B	4	-	-	-								0.0
	6267						0.0	-			5	C	6	-	-	-								0.0
	6267						0.0	HP-C6.4	50/3	#6	7	A	8	#12	15/3	PE-C6.4								0.0
	6267						0.0	-			9	B	10	-	-	-								0.0
	6267						0.0	-			11	C	12	-	-	-								0.0
	6267						0.0	HP-C6.5	50/3	#6	13	A	14	#12	15/3	PE-C6.5								0.0
	6267						0.0	-			15	B	16	-	-	-								0.0
	6267						0.0	-			17	C	18	-	-	-								0.0
200							0.00	ROOF RECP	20/1	12						SPACE								0.0
							0.0	SPACE			21	B	22			SPACE								0.0
							0.0	SPACE			23	C	24			SPACE								0.0
							0.0	SPACE			25	A	26			SPACE								0.0
							0.0	SPACE			27	B	28			SPACE								0.0
							0.0	SPACE			29	C	30			SPACE								0.0
0	200	56590	0	0	0	0	0.0	TOTALS								TOTALS	0	0	4830	0	0	0	0	0.0

LOAD SUMMARY									Phase Load												
Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Ph	KVA	Ltg	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Ph	KVA
0.0	0.2	61.4	0.0	0.0	0.0	0.0	0.50	Connected Factors	A	20.5	0.0	0.2	61.4	0.0	0.0	0.0	0.50	*Design Factors	A	20.5	
0.0	0.2	61.4	0.0	0.0	0.0	0.0	0.50	*Design KVA	B	20.5	0.0	0.2	61.4	0.0	0.0	0.0	0.50		B	20.5	
0.0	0.2	61.4	0.0	0.0	0.0	0.0	0.50		C	20.5	0.0	0.2	61.4	0.0	0.0	0.0	0.50		C	20.5	

*Input div. factor per descriptions as required for calculations.
**100% of rat 10 KVA. 50% of remaining.

PANEL **MC6**

Con KVA	Con Amps	Dis KVA	Dis Amps
TOTAL 61.6	74.1	61.6	74.1

Date: 2/8/2024

By: N OROPEZA

MountingRECESSED

Main TypeMCB (225A)

Neutral100%

Job:WARNER MS - MODERNIZATION

Job No:220526

AIC Rating10000

PANEL: MC7

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire #	Gr. No.	Ph.	Gr. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S
		6287					0.00	HP-C7.3	50/3	-	3	B	4	-	PE-C7.3			537						537
		6287					0.00				5	C	6	-	-			537						537
		6287					0.00	HP-C7.4	50/3	#6	7	A	8	#12	15/3	PE-C7.4			537					537
		6287					0.00				9	B	10	-	-			537						537
		6287					0.00				11	C	12	-	-			537						537
		6287					0.00	HP-C7.5	50/3	#6	13	A	14	#12	15/3	PE-C7.5			537					537
		6287					0.00				15	B	16	-	-			537						537
		6287					0.00				17	C	18	-	-			537						537
		6287					0.00	ROOF RECEP	20/1	12	19	A	20	-	-	SPACE								0.00
		6287					0.00	SPACE			21	B	22	-	-	SPACE								0.00
		6287					0.00	SPACE			23	C	24	-	-	SPACE								0.00
		6287					0.00	SPACE			25	A	26	-	-	SPACE								0.00
		6287					0.00	SPACE			27	B	28	-	-	SPACE								0.00
		6287					0.00	SPACE			29	C	30	-	-	SPACE								0.00
0	200	56580	0	0	0	0	0	TOTALS								TOTALS	0	0	4830	0	0	0	0	0.00

LOAD SUMMARY

Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.2	61.4	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	--	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	0.2	61.4	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph.	KVA
A	20.7
B	20.5
C	20.5

Panel Remarks:

NEW PANEL

PANEL: MC7

Con. KVA	Con. Amps	Des. KVA	Des. Amps
TOTAL 61.6	74.1	61.6	74.1

Date:

2/8/2024

By: N OROPREZA

[illegible]

ARCHITECT **ANAHEIM** **PBK Architects, Inc.**
2400 E. Katella Ave., Suite 950
Anaheim, CA 92806
P 949-548-5000 PBK.com

CONSULTANT	LEAF Engineers
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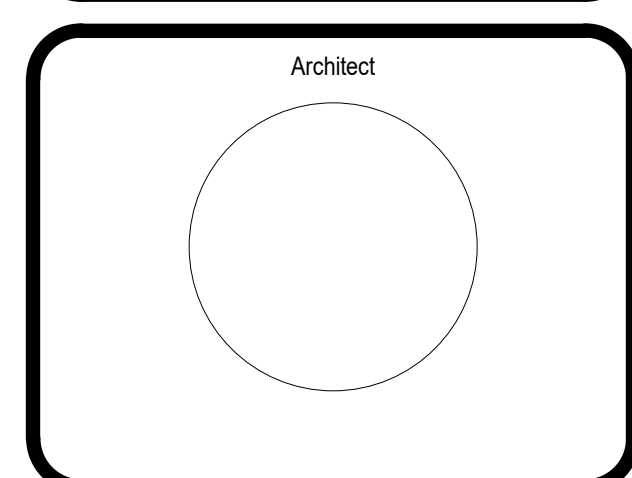
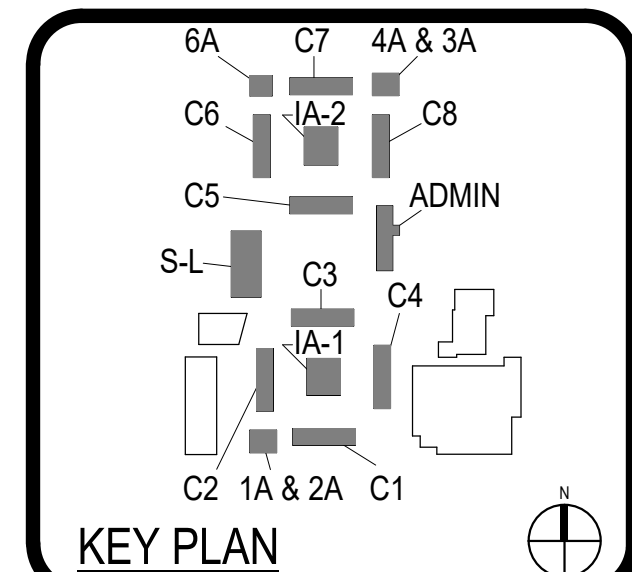
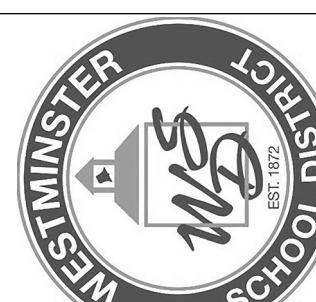


8163 Rochester Avenue, Suite 100
Rancho Cucamonga, CA 91730
909.987-0909
leafengineers.com

WARNER MIDDLE SCHOOL - MODERNIZATION

PROJECT ADDRESS:
14171 NEWLAND ST
WESTMINSTER CA 92683

DSA Submittal
 DSA APPL NO.: 121954 DSA FILE NO.: 30-43



CLIENT WESTMINISTER SCHOOL DISTRICT	
DATE 03/31/2023	PROJECT NUMBER 220526

REVISIONS		
No.	Description	Date
2	ADDENDUM 02	02-07-2024

DSA Submittal

ELECTRICAL SCHEDULES

E6.01

Job: WARNER MOD.
Job No: 220526
A/C Rating 10000
Main Type: MCB (225A)
Neutral: 100%
Voltage: 480Y/277V-3PH 4W
Main Size: 225 AMPS
Equipment Ground
Lugs: SINGLE

Panel: MIA1

Utg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	
		6287					0.0	HP-IA1.1	503	#6	1	A	2	#12	15/3	PE-IA1.1								0.0	
		6287					0.0					3	B	4	-	-								0.0	
		6287					0.0					5	C	6	-	-								0.0	
		6287					0.0	HP-IA1.2	503	#6	7	A	8	#12	15/3	PE-IA1.2								0.0	
		6287					0.0					9	B	10	-	-								0.0	
		6287					0.0					11	C	12	-	-								0.0	
		6287					0.0	HP-IA1.3	503	#6	13	A	14	#12	15/3	PE-IA1.3								0.0	
		6287					0.0					15	B	16	-	-								0.0	
		6287					0.0					17	C	18	-	-								0.0	
		6287					0.0	HP-IA1.4	503	#6	19	A	20	#12	15/3	PE-IA1.4								0.0	
		6287					0.0					21	B	22	-	-								0.0	
		6287					0.0					23	C	24	-	-								0.0	
		6287					0.0	ROOF RECEPT	201	12						SPACE								0.0	
		6287					0.0					27	B	28	-	-								0.0	
		6287					0.0					29	C	30	-	-								0.0	
		6287					0.0									TOTALS	0	0	6440	0	0	0	0	0	0

LOAD SUMMARY

Utg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.2	81.9	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	Design Factors
0.0	0.2	81.9	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	20.7
B	20.5
C	20.5

Panel Remarks

NEW PANEL

Panel: MIA1

Con. KVA

Con. Amps

Des. KVA

Des. Amps

82.1

98.7

82.1

98.7

Date: 2/8/2024

By: N. OROPEZA

Job: WARNER MOD.
Job No: 220526
A/C Rating 10000
Main Type: MCB (225A)
Neutral: 100%
Voltage: 480Y/277V-3PH 4W
Main Size: 225 AMPS
Equipment Ground
Lugs: SINGLE

Panel: MIA2

Utg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	
		6287					0.0	HP-IA1.1	503	#6	1	A	2	#12	15/3	PE-IA1.1								0.0	
		6287					0.0					3	B	4	-	-								0.0	
		6287					0.0					5	C	6	-	-								0.0	
		6287					0.0	HP-IA1.2	503	#6	7	A	8	#12	15/3	PE-IA1.2								0.0	
		6287					0.0					9	B	10	-	-								0.0	
		6287					0.0					11	C	12	-	-								0.0	
		6287					0.0	HP-IA1.3	503	#6	13	A	14	#12	15/3	PE-IA1.3								0.0	
		6287					0.0					15	B	16	-	-								0.0	
		6287					0.0					17	C	18	-	-								0.0	
		6287					0.0	HP-IA1.4	503	#6	19	A	20	#12	15/3	PE-IA1.4								0.0	
		6287					0.0					21	B	22	-	-								0.0	
		6287					0.0					23	C	24	-	-								0.0	
		6287					0.0	ROOF RECEPT	201	12						SPACE								0.0	
		6287					0.0					27	B	28	-	-								0.0	
		6287					0.0					29	C	30	-	-								0.0	
		6287					0.0									TOTALS	0	0	6440	0	0	0	0	0	0

LOAD SUMMARY

Utg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.2	81.9	0.0	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	Design Factors
0.0	0.2	81.9	0.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load

Ph	KVA
A	20.7
B	20.5
C	20.5

Panel Remarks

NEW PANEL

Panel: MIA2

Con. KVA

Con. Amps

Des. KVA

Des. Amps

82.1

98.7

82.1

98.7

Date: 2/8/2024

By: N. OROPEZA

Job: WARNER MS - MODERNIZATION
Job No: 220526
A/C Rating 14000
Main Type: MCB (225A)
Neutral: 100%
Voltage: 208Y/120V-3PH 4W
Main Size: 225 AMPS
Equipment Ground
Lugs: SINGLE

Panel: MLA

Utg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	
		725					0.00	FC-A1	152	12	1	A	2	12	15/2	FC-A4								0.00	
		725					0.00					3	B	4	12	-2								0.00	
		1170					0.00	FC-A2	152	12	5	C	6	12	15/2	FC-A5								0.00	
		1170					0.00					7	A	8	12	-2								0.00	
		725					0.00	FC-A3	152	12	9	B	10	12	15/2	FC-A6								0.00	
		725					0.00					12	C	12	12	-2								0.00	
		200					0.00	GAF-A1	151	12	13	A	14	12	15/2	HP-A1								0.00	
		4853					0.00	HP-A1	1003	1	17	C	18	10	25/2	EW-H1								0.00	
		4853					0.00					19	A	20	10	-2								0.00	
		4853					0.00					21	B	22	10	25/2	EW-H1							0.00	
		2060					0.00	EW-H1	252	10	23	C	24	10	-2									0.00	
		2060					0.00					25	A	26	10	25/2	EW-H1							0.00	
		2060					0.00	EW-H1	252	10	27	B	28	10	-2									0.00	
		2060					0.00					29	C	30	-2									0.00	
		5452					0.00									TOTALS	0	0	12360	0	0	0	0	0	0.00

LOAD SUMMARY (KVA)

Utg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.2	11.9	35.2	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	Design Factors
0.0	0.2	11.9	35.2	0.0	0.0	0.0	0.0	Design KVA

Phase Load (KVA)

Phase	KVA
A	15.2
B	14.6
C	17.3

Panel Remarks

NEW PANEL

Panel: MLA

Con. KVA

Con. Amps

Des. KVA

Des. Amps

47.1

136.7

47.1

136.7

Date: 2/8/2024

By: N. OROPEZA

Job: WARNER MS - MODERNIZATION
Job No: 220526
A/C Rating 10000
Main Type: MCB (60A)
Neutral: 100%
Voltage: 240Y/120-3PH-3W
Main Size: 100 AMPS
Equipment Ground
Lugs: FEED THRU

Panel: MSL

Utg.	Recept	Motor	Heat	Cool	Equip.	Kitchen	S/S	Description	Amp/P	Wire	Cir. No.	Ph	Cir. No.	Wire	Amp/P	Description	Ltg.	Recept	Motor	Heat	Cool	Equip.	Kitchen	S/S	
		107					0.00	SF-SL-1	151	12	1	A	2	12	15/1	EF-SL-1								0.00	
		884					0.00	HP-SL-1	152	12	3	B	4	12	15/2	HP-SL-2								0.00	
		884					0.00					5	A	6	12	-2								0.00	
		180					0.00	ROOF RECEPT	201	12	7	B	8	12	-2									0.00	
							0.00					9	A	10	12	-2								0.00	
							0.00					11	C	12	10	25/2	EW-H1							0.00	
							0.00					13	A	14	10	-2								0.00	
							0.00					15	B	16	10	-2								0.00	
							0.00					17	A	18	10	-2								0.00	
							0.00					19	B	20	10	-2								0.00	
							0.00					21	A	22	10	-2								0.00	
							0.00					23	B	24	10	-2								0.00	
							0.00									TOTALS	0	0	1875	4120	0	0	0	0	0.00

LOAD SUMMARY (KVA)

Utg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.2	3.8	4.1	0.0	0.0	0.0	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	Design Factors
0.0	0.2	3.8	4.1	0.0	0.0	0.0	0.0	Design KVA

Phase Load (KVA)

Phase	KVA
A	8
B	4.0

Panel Remarks

NEW PANEL

Panel: MSL

Con. KVA

Con. Amps

Des. KVA

Des. Amps

8.1

33.5

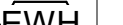
8.1

33.5

Date: 2/8/2024

By: Designer

TYPE	DESCRIPTION	VOLTAGE	MOUNTING	MANUFACTURER & NO.	REMARKS
FX-A	2X4 TROFFER	MVOLT	RECESSED	LITHONIA LIGHTING EPANL 2X4 4000LM 80CRI 35K MINI MVOLT	
FX-AE	2X4 TROFFER - EMERG.	MVOLT	RECESSED	LITHONIA LIGHTING EPANL 2X4 4000LM 80CRI 35K MINI MVOLT E10WCP	PROVIDE 90 MIN. EMERGENCY BATTERY BACKUP 'E10WCP'
FX-B	1X4 TROFFER	MVOLT	RECESSED	LITHONIA LIGHTING EPANL 1X4 4000LM 80CRI 35K MINI MVOLT	
FX-BE	1X4 TROFFER - EMERG.	MVOLT	RECESSED	LITHONIA LIGHTING EPANL 1X4 4000LM 80CRI 35K MINI MVOLT E10WCP	PROVIDE 90 MIN. EMERGENCY BATTERY BACKUP 'E10WCP'
FX-C	2X4 TROFFER	MVOLT	SURFACE	LITHONIA LIGHTING EPANL 2X4 4000LM 80CRI 35K MINI MVOLT	PROVIDE SURFACE MOUNT KIT 'SMKSH'.
FX-D	5" DOWNLIGHT	MVOLT	SURFACE	JUNO LIGHTING JSF 5IN Ø7LM 35K 90CRI 120 FRPC WH E10WLCP	PROVIDE EMERGENCY BATTERY BACKUP 'E10WLCP'
FX-E	1X4 TROFFER	MVOLT	SURFACE	LITHONIA LIGHTING EPANL 1X4 4000LM 80CRI	

ELECTRIC WATER HEATER SCHEDULE									
UNIT	MANUFACTURER & MODEL NO.	LOCATION	SERVICE	INLET TEMP. °F	OUTLET TEMP. °F	ELEC. REQ.	DIMENSIONS	OPER. WT. (LBS)	REMARKS
	CHRONOMITE SR-20U/208/1PH	ADMIN. & BLDG SL	ADMIN. & BLDG SL SINKS	55	120	4.1 KW	REFER TO CUTSHEET	10	T & P VALVE TO JANITORS SINK

[illegible][illegible]