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ADDENDUM NO. 02
January 17, 2025

To Drawings and Specifications dated December 18, 2024.

HUMBLE HIGH SCHOOL ADDITIONS AND RENOVATIONS – PHASE TWO
FOR HUMBLE I.S.D.

Prepared by: PBK
11 Greenway Plaza, 22nd Floor
Houston, TX 77046-1104
PBK Project No: 220537

Notice to Bidders

A. Receipt of this Addendum shall be acknowledged on the Bid Form.

B. This Addendum forms part of the Contract documents for the above referenced project and shall be incorporated integrally therewith.

C. Each bidder shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the following supplemental data differ from those of the original Contract Documents, this Addendum shall govern.

GENERAL

Item No. 1 Note that the campus radio antenna system and IP cameras are removed from the contractor's project scope since these items are owner furnished owner installed.

Item No. 2 In existing areas of the school where new lighting controls are added, the contractor shall remove the existing controls. The removed controls shall be retained and turned over to the owner. The utilization of the existing conduit and boxes for the existing is acceptable.

Item No. 3 As part of the Base Bid, the head-in is existing and is to remain. All new devices shall be tied back to the existing head-in. For pricing for Alternates 2, 3, and 7, the head-in is existing and is to remain. No new head-in is required. All devices for these alternates are to be removed and reinstalled per the Technology General Notes.

Item No. 4 This line item is associated with all foundation sheets, the grade beam schedule, and all grade beam details. Per the Geotech report, the spread footings must bear a minimum of six feet below existing natural grade. To account for this, we believe the footings should bear roughly seven feet below finish floor. We have adjusted the depths of the grade beams to push the footings to bear at seven feet below finish floor. Refer to the updated grade beam schedule in this addendum. We are not re-issuing all foundation sheets for this change, but it shall be generally understood that the current -3-'6" value shown at each footing will become -5'-4" to achieve a bottom of footing of -7'-0" below FF. Please note this additional depth may cause OSHA-style benching of the soil excavations. The general contractor shall account for any added cost or time associated with this additional footing, grade beam, and pilaster depth.

Item No. 5 The grade beam schedule has been updated to represent the deeper grade beams at all locations. Where possible, the width of the grade beam has been narrowed and reduced the reinforcement. Refer to the revised grade beam schedule on sheet S-302 in this addendum.

Item No. 6 The Geotech report highly recommends for the contractor to utilize a seal slab two to four inches thick made from lean concrete (approx. 300 to 500 psi) at the base of each footing. They believe that – due to moisture in the soil at the bottom of the footing – excavations may be difficult to construct without a seal slab to protect the base soils. All bidders shall account for a two inch to four inch lean concrete seal slab unreinforced at the base of each and every footing.

Item No. 7 There are a few locations within the drawings where utilities such as plumbing, storm, sanitary, electrical, etc. are running just below the grade beams. As a result of the increased depth noted above, some of these utilities may clash with the bottom of grade beams. Where these occur, the structural engineer will allow shallowing of the grade beams to miss the utility. In these instances, the footing will remain low – and a 24"x24" pilaster will be added to the footing to receive the shallower grade beam. The pilaster will run full height between the footing and the bottom of slab. The pilaster will be reinforced per the typical pilaster detail with #6 bars vertically and 10 inch on center around the perimeter and ties.

SPECIFICATIONS

Item No. 8 **Section 00 40 00: Competitive Sealed Proposal Form:** Replace section in its entirety.

Item No. 9 **Section 01 21 00: Allowances:** Add allowance as follows:

D. Asbestos Remediation Allowance: $200,000.00

1. Contactor shall include the amount indicated above in his Base Proposal for the cost of asbestos remediation.

Item No. 10 **Section 02 82 00: Asbestos Remediation:** Add section in its entirety.
Item No. 11 **Section 08 71 00: Door Hardware:** Replace section in its entirety.
Item No. 12 **Section 08 71 00: Door Hardware - Alternate:** Add section in its entirety.
Item No. 13 **Section 10 14 00: Graphics:** Replace section in its entirety.
Item No. 14 **Section 10 51 13: Metal Lockers and Benches:** Replace section in its entirety.
Item No. 15 **Section 12 66 13: Telescoping Bleachers:** Replace section in its entirety.
Item No. 16 **Section 14 24 00: Hydraulic Elevator:** Replace section in its entirety.
Item No. 17 **Section 27 10 00: Structured Cabling System:** Add section in its entirety.
Item No. 18 **Section 27 32 43: Campus Radio Antenna System:** Omit section in its entirety.
Item No. 19 **Section 28 23 00: IP Security Camera System:** Omit section in its entirety.

DRAWINGS

Item No. 20 **Sheet G-001:** Replace sheet in its entirety.
Item No. 21 **Sheet G-061:** Omit detail 04.
Item No. 22 **Sheet AD001:** Replace sheet in its entirety.
Item No. 23 **Sheet AD002:** Replace sheet in its entirety.
Item No. 24 **Sheet AD101A:** Replace sheet in its entirety.
Item No. 25 **Sheet AD101B:** Replace sheet in its entirety.
Item No. 26 **Sheet AD101C:** Replace sheet in its entirety.
Item No. 27 **Sheet AD101E:** Replace sheet in its entirety.
Item No. 28 **Sheet AD101F:** Replace sheet in its entirety.
Item No. 29 **Sheet AD101G:** Replace sheet in its entirety.
Item No. 30 **Sheet AD101K:** Replace sheet in its entirety.
Item No. 31 **Sheet AD101N:** Replace sheet in its entirety.
Item No. 32 **Sheet AD102A:** Replace sheet in its entirety.
Item No. 33 **Sheet AD102B:** Replace sheet in its entirety.
Item No. 34 **Sheet AD102F:** Replace sheet in its entirety.
Item No. 35 **Sheet AD102G:** Replace sheet in its entirety.
Item No. 36 **Sheet C 200.1:** Replace sheet in its entirety.
Item No. 37 **Sheet C 300:** Replace sheet in its entirety.
Item No. 38 **Sheet L-101:** Replace sheet in its entirety.
Item No. 39 **Sheet L-102:** Replace sheet in its entirety.
Item No. 40 **Sheet S-302:** Replace sheet in its entirety.
Item No. 41 **Sheet A-001:** Replace sheet in its entirety.
Item No. 42 **Sheet A-101B:** Replace sheet in its entirety.
Item No. 43 **Sheet A-101C:** Replace sheet in its entirety.
Item No. 44 **Sheet A-101E:** Replace sheet in its entirety.
Item No. 45 **Sheet A-101F:** Replace sheet in its entirety.
Item No. 46 **Sheet A-101F.1:** Replace sheet in its entirety.
Item No. 47 **Sheet A-101G:** Replace sheet in its entirety.

Item No. 48 **Sheet A-101H.1:** Replace sheet in its entirety.
Item No. 49 **Sheet A-101K:** Replace sheet in its entirety.
Item No. 50 **Sheet A-101N:** Replace sheet in its entirety.
Item No. 51 **Sheet A-101S:** Replace sheet in its entirety.
Item No. 52 **Sheet A-101S.1:** Omit sheet in its entirety.
Item No. 53 **Sheet A-101S.2:** Omit sheet in its entirety.
Item No. 54 **Sheet A-102A:** Replace sheet in its entirety.
Item No. 55 **Sheet A-102F.1:** Replace sheet in its entirety.
Item No. 56 **Sheet A-102G:** Replace sheet in its entirety.
Item No. 57 **Sheet A-403:** Replace sheet in its entirety.
Item No. 58 **Sheet A-441:** Replace sheet in its entirety.
Item No. 59 **Sheet A-442:** Replace sheet in its entirety.
Item No. 60 **Sheet A-443:** Replace sheet in its entirety.
Item No. 61 **Sheet A-444:** Replace sheet in its entirety.
Item No. 62 **Sheet A-445:** Replace sheet in its entirety.
Item No. 63 **Sheet A-446:** Add sheet in its entirety.
Item No. 64 **Sheet A-501:** Replace sheet in its entirety.
Item No. 65 **Sheet A-527:** Replace sheet in its entirety.
Item No. 66 **Sheet A-710:** Replace sheet in its entirety.
Item No. 67 **Sheet AF101B:** Replace sheet in its entirety.
Item No. 68 **Sheet AF101H:** Replace sheet in its entirety.
Item No. 69 **Sheet AF101J:** Replace sheet in its entirety.
Item No. 70 **Sheet AF101K:** Replace sheet in its entirety.
Item No. 71 **Sheet AF101U:** On the finish plan, provide flooring type RF-1 in rooms 2400B and 2400C (in lieu of PFT-2).
Item No. 72 **Sheet AF102B:** On the finish plan and schedule, provide flooring type CPT-2 in room 3119 (in lieu of RF-1 or CS-1).
Item No. 73 **Sheet E-201J:** Replace sheet in its entirety.
Item No. 74 **Sheet E-201S:** Replace sheet in its entirety.
Item No. 75 **Sheet E-703:** Replace sheet in its entirety.

QUESTIONS

Item No. 76 **At the start of the hardware sets there is a heading stating "Hardware Sets based on plans dated 3-6-2024 - Issued for Proposal". The plan sheets that are in the link provided are dated 12-18-2024 Issue for Proposal. For bidding, should I use these hardware sets with the heading based on IFP 3-6-24? If so, are these the Base Only sets? It looks like the same Hardware Set number is used for Base and Alternates, which is not matching up. The Table of Contents list 087100 Door Hardware and 087100 Door Hardware – Alternate. Should there be two sections of Hardware Sets?** Answer: Refer to the door hardware specification sections included in this addendum.

Item No. 77 **The plumbing demo drawings (please reference PD101A) show to demolish the fixtures and the carriers where as the architectural demo drawings show to pull the fixtures and reinstall. Please clarify which is correct.** Answer: Refer to the following revised sheets included in this addendum: A-001, AD001, AD002, AD101B, AD101C, AD101E, AD101F, AD101G, AD101K, AD101N, AD102A, AD102G, A-101B, A-101C, A-101E, A-101F, A-101G, A-101K, A-101N, A-102A, and A-102G.

Item No. 78 **I saw no OHDs here but there is a spec for folding gates When I look in the plans I see the below in area H – can you confirm they want one large side folding gate to cover this +/- 90' wide space?** Answer: Refer to the following revised sheets included in this addendum: A-101H.1, A-527, and A-710.

Item No. 79 **Please provide an asbestos report for the renovation portion of this work? If there is not one, will the owner be doing an asbestos survey to see if there is asbestos Or could you please provide an allowance line for asbestos removal so that everyone has the same information?** Answer: Humble ISD will provide any surveys required, and the general contractor will handle the abatement. See this addendum for an abatement allowance and a specification section for this abatement.

Item No. 80 **I am trying to find out about the Alternate Hardware Sets that are missing within the specifications. Do you know if this is still in the making of being released?** Answer: Refer to the door hardware specification section for the alternates included in this addendum.

Item No. 81 **1.Durning the walk through a discussion of reusing some of the existing elevator components came up. Will a bid of a Modernization of the existing elevator be exemptible? 2.Otis is the only manufacture accepted in the specification. Are other elevator manufactures acceptable.** Answer: 1. The scope of this project is a complete replacement of the existing elevator, as shown in the construction documents. A modernization of the existing elevator is not acceptable. 2. Refer to the elevator specification section included in this addendum.

Item No. 82 **The room finish schedule specifies WT-1/WT-2/WT-3 for the walls in restrooms 1118 and 1119, but elevations in detail 21 on sheet A-441 do not show this.** Answer: Refer to revised sheet A-441 included in this addendum.

Item No. 83 **The room finish schedule specifies WT-1/WT-2/WT-3, but the elevations only show WT-1 and WT-2.** Answer: Refer to the following revised sheets included in this addendum: A-442, A-443, A-444, and A-445.

Item No. 84 **For restroom Coach 2815: Which walls will receive wall tile?** Answer: Refer to revised sheet AF101K included in this addendum.

Item No. 85 **Revise the room finish schedule for the restrooms in Area K, Level 1.** Answer: Refer to revised sheet A-445 included in this addendum.

Item No. 86 **Rooms 2400C and 2400B: The room finish schedule specifies RF-1, but the finish plan shows PFT-2.** Answer: Provide RF-1 as scheduled.

Item No. 87 **Storage 3119: The room finish schedule specifies CS-1, but the finish plan shows RF-1.** Answer: Provide carpet CPT-2 finish in this room.

Item No. 88 **Can LockersMFG be an approved lockers manufacturer for this project?** Answer: Refer to the locker specification section included in this addendum.

Attachments include 154 additional sheets and ends with drawing E-703 dated 01/17/25.

DOCUMENT 00 40 00 - COMPETITIVE SEALED PROPOSAL FORM
This Document is for reference, the actual Proposal Form will have to be filled out via Ionwave.

HUMBLE HIGH SCHOOL ADDITIONS AND RENOVATIONS PHASE TWO
HUMBLE DISTRICT INDEPENDENT SCHOOL DISTRICT

Submitted by: _____

Date: _____ Phone No.:_____

To: Board of Trustees
Humble Independent School District
1703 Wilson Rd. Building B
Humble, Texas 77396

Having examined Proposal and Contract Documents prepared by PBK, Inc., dated **December 18, 2024,** and having examined site conditions, the undersigned proposes to furnish all labor, equipment and materials and perform all work for the completion of the above-named project for the sum indicated below.

In submitting his Proposal, the undersigned agrees to the following:

1. Base Proposal to be submitted via Ionwave by January 23, 2025, and this signed document to be submitted post-bid.
2. Hold proposal open for acceptance 90 days.
3. Accept right of Owner to reject any or all proposals, to waive formalities and to accept proposal which Owner considers most advantageous.
4. Enter into and execute the contract, if awarded, for the Base Proposal and accepted Alternate Proposals.
5. Complete work in accordance with the Contract Documents within the stipulated contract time.
6. By signing, the undersigned affirms that, to the best of his knowledge, the Proposals have been arrived at independently and is submitted without collusion with anyone to obtain information or gain any favoritism that would in any way limit competition or give an unfair advantage over respondents in the award of this proposal.

I. BASE PROPOSAL

Undersigned agrees to complete the Work for the lump sum amount of:

1.1 Humble High School Additions and Renovations Phase Two

_____Dollars $_____

(Amount written in words governs) (Amount in figures)

II. ALLOWANCES

Undersigned certifies that the specified allowances are included in the Base Proposal and agrees that any unexpended balance of allowance sums will revert to Owner in the final settlement of the contract.

1.	Owner's Contingency	$1,500,000.00
2.	First Responder Antenna System	$1,143,112.00

3. Super Graphics $80,000.00

4. Asbestos Remediation $200,000.00

III. UNIT PRICES

1. Unit Price 1: Removal of unsatisfactory soil and replacement with satisfactory soil material

ADD _____ Dollars $_____
(Amount written in words governs) (Amount in figures)

2. Unit Price 2: Rock excavation and replacement with satisfactory soil material

ADD _____ Dollars $_____
(Amount written in words governs) (Amount in figures)

3. Unit Price 3: Cutting and patching of concrete floor slabs

ADD _____ Dollars $_____
(Amount written in words governs) (Amount in figures

4. Unit Price 4: Concrete

ADD _____ Dollars $_____
(Amount written in words governs) (Amount in figures)

5. Unit Price 5: Select fill

ADD _____ Dollars $_____
(Amount written in words governs) (Amount in figures)

6. Unit Price 6: Spread Footing (Add)

ADD _____ Dollars $_____
(Amount written in words governs) (Amount in figures)

7. Unit Price 7: Spread Footing (Deduct)

ADD _____ Dollars $_____
(Amount written in words governs) (Amount in figures)

8. Unit Price 8: Existing Pier Demo Condition 1 (Overlap with New Pier)

ADD _____ Dollars $_____
(Amount written in words governs) (Amount in figures)

9. Unit Price 9: Existing Pier Demo Condition 2 (No Conflict with New Piers)

ADD _____ Dollars $_____
(Amount written in words governs) (Amount in figures)

10.
Unit Price 10: Grade Beam (Add)

ADD _____Dollars $_____
(Amount written in words governs) (Amount in figures)

11.
Unit Price 11: Grade Beam (Deduct)

ADD _____Dollars $_____
(Amount written in words governs) (Amount in figures)

12.
Unit Price 12: Miscellaneous and Structural Steel

ADD _____Dollars $_____
(Amount written in words governs) (Amount in figures)

IV. CONTRACT TIME

Undersigned agrees to begin Work upon Notice to Proceed, and be Substantially Complete by July 15, 2026. A schedule is to be uploaded on IonWave that must include the following milestone dates.

In addition, the undersigned will agree to meet Milestone completion dates for completion of the Foundation, Structural Steel, Building Envelope and Roof, and HVAC Start Up to be submitted at Bid Time and Date via Ionwave.

IV. ADDENDA

Undersigned acknowledges receipt of Addenda Nos._____
dated _____, 20__.

V. ALTERNATES

If the Owner accepts any or all of the Alternates, the undersigned agrees to modify the Base Proposal as stipulated below:

A. Alternate No. 1: Synthetic Turf Outdoor Work Area at Athletics Courtyard

ADD_____Dollars $_____
(Amount written in words governs) (Amount in figures)

B. Alternate No. 2: Existing Ceilings and Lights Replacement

ADD_____Dollars $_____
(Amount written in words governs) (Amount in figures)

C. Alternate No. 3: Science Labs Renovation

ADD_____Dollars $_____
(Amount written in words governs) (Amount in figures)

D. Alternate No. 4: Existing Flooring Replacement

ADD_____Dollars $_____
(Amount written in words governs) (Amount in figures)

E. Alternate No. 5: Existing Doors Replacement

ADD_____Dollars $_____
(Amount written in words governs) (Amount in figures)

F. Alternate No. 6: Irrigation and Sod

ADD_____Dollars $_____
(Amount written in words governs) (Amount in figures)

G. Alternate No. 7: Area H Corridor Renovation

ADD_____Dollars $_____
(Amount written in words governs) (Amount in figures)

H. Alternate No. 8A: Direct Digital Controls – Reliable Controls (Basis of Design)

ADD_____Dollars $_____
(Amount written in words governs) (Amount in figures)

I. Alternate No. 8B: Direct Digital Controls - Alerton

ADD_____Dollars $_____
(Amount written in words governs) (Amount in figures)

J. Alternate No. 9: High Capacity Packaged, Outdoor, Central Station Air Handling Units – Trane – Horizon Model

ADD_____Dollars $_____
(Amount written in words governs) (Amount in figures)

K. Alternate No. 10: Base Bid Adjustment (if any) – This alternate shall establish the amount to be added to/ deducted from the Base Proposal in the event the Contractor has discovered an error in their Base Proposal amount.

ADD_____Dollars $_____
(Amount written in words governs) (Amount in figures)

VI. CHANGES IN THE WORK

Undersigned understands that changes in the work shall be performed in accordance with the Supplementary Conditions.

VII. LIQUIDATED DAMAGES

Undersigned understands that liquidated damages as defined in the Supplementary Conditions will be included in the form of Agreement between Owner and Contractor and that the contractor will be bound thereto.

It is understood that the right is reserved by the Owner to reject any or all proposals, or waive any informalities in the proposal process.

_____
Authorized Signature

_____
Title

(Seal, if a Corporation)
State whether Corporation,
Partnership or Individual

_____
Name of Contracting Firm

_____
Address

_____
Telephone

_____
Date

END OF DOCUMENT 00 40 00

SECTION 02 82 00 - ASBESTOS REMEDIATION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes: Requirements including but not limited to:
   1. Asbestos material abatement and disposal.
   2. Accessories necessary for complete removal.

1.3 SUBMITTAL

A. Submit copy of the signed waste manifests indicating the place, time and exact quantity of asbestos, received by an approved landfill.

1.4 QUALITY ASSURANCE

A. Qualifications: Entity having minimum 5 years documented experience, holding required current licenses for the removal, transport, and disposal and related activities relative to the work, having the required personal protective equipment and respirators for abatement operations, with current liability insurance, and who employs workers fully trained and knowledgeable in the removal of hazardous materials.

1.5 STOP ASBESTOS REMOVAL

A. If a verbal or written Stop Asbestos Removal Order is given**,** immediately stop asbestos removal and maintain HEPA filtered negative pressure air flow in the containment and adequately wet any exposed ACM.
   1. Do not resume asbestos removal activity until authorized to do so in writing.
   2. A stop asbestos removal order may be issued at any time it is determined that abatement conditions/activities are not within regulatory requirements or that an imminent hazard exists to human health or the environment.
   3. Work stoppage will continue until conditions have been corrected.

PART 2 - MATERIALS

Not used.

PART 3 - EXECUTION

3.1 REMEDIATION

A. The Owner has conducted an asbestos survey and has determined that asbestos may be present in areas where work will be performed. The survey is made available for review.
   1. As part of the work, the Owner requires asbestos removal to be performed under the construction contract.
   2. Asbestos may be present in vinyl tile under architectural woodwork or covered by, but not encapsulated, carpet materials and other types of flooring.
   3. Asbestos may be present in the ductwork above the ceiling panels.
   4. If asbestos is found, stop work in the area and engage an asbestos removal firm to remediate the asbestos from the area. Do not resume work in the affected areas until the

abatement is complete and authorization to proceed with work in the affected areas is given. Work in areas not affected by asbestos may continue.

B. Assume responsibility and liability for compliance with applicable Federal, State, and Local regulations related to the asbestos abatement work.
   1. Provide and maintain training, accreditations, medical exams, medical records, personal protective equipment (PPE) including respiratory protection including respirator fit testing, as required by applicable Federal, State and Local regulations.
   2. Post required notices prior to the commencement of the work.
   3. Restrict access to containment areas to authorized, trained, and protected personnel.
   4. Prepare and post an emergency plan in clean room and equipment room of the decontamination unit.
   5. Do not permit workers to eat, drink, smoke, chew gum or tobacco, or break the protection of the respiratory protection system in the work area.

C. Entering and Existing Procedures: Establish procedures for entering and existing containment area. Provide personnel decontainment unknit with disposable coveralls, head covers, and clean respirators. Provide shower room between personnel decontainment area and equipment room.

D. Decontamination Procedures: Establish procedures for decontamination upon leaving containment are in accordance with federal and state regulations.

E. Provide negative pressure filtration systems to complete exchange air 4 time per hour. Provide standby system in the event of a machine failure or emergency.
   1. Continuously monitor and record the pressure differential between the work area and the building outside of the work area.

F. Prepare the Affected Area: Remove furnishings and materials to the extent necessary to remediate the asbestos.

G. Containment of Areas: Provide a secure containment work area in accordance with federal and state regulations. Avoid damage to existing partitions and ceilings scheduled to remain to the extent possible.
   1. Establish critical barriers over each opening into the work area.
   2. Close out vents and air ducts to prevent particulates from entering the HVAC system.

H. Debris: Place contaminated debris in a designated location within the containment area.
   1. Place debris in minimum 6 mil poly bags before removing from contaminated areas. Pass Clean or decontaminate bags and pass and pass through a double 6 mil flap doorway into another bag or fiber drum. Remove to disposal dumpster/gondola/vehicle. Do not permit unprotected personnel to come in contact with contaminated bags.
   2. Remove and dispose of contaminated debris legally.

I. Testing: Perform required tests and inspections upon completion of the work. Collect air samples and analyze in accordance with regulations. Upon satisfactory conclusion of testing, remove critical barriers.

J. After thorough decontamination, complete asbestos abatement work upon meeting the regulated area clearance criteria and fulfilling the following:
   1. Remove equipment, materials, and debris from the project area.
   2. Package and dispose asbestos waste as required.
   3. Repair or replace all interior finishes damaged during the abatement work.
   4. Fulfill other project closeout requirements as specified elsewhere in this specification.

3.2 CERTIFICATE OF COMPLETION BY CONTRACTOR

A. Submit a signed *Certificate of Completion* at the completion of the abatement and decontamination of the regulated area.

END OF SECTION 02 82 00

SECTION 08 71 00 – DOOR HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.
2. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Automatic operators.
4. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 08 Section “Flush Wood Doors”.
3. Division 08 Section “Aluminum-Framed Entrances and Storefronts”.
4. Division 08 Section “Automatic Door Operators”.
5. Division 28 Section “Access Control Hardware Devices”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. UL/ULC and CSA C22.2 – Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
8. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards:

1. ANSI/BHMA Certified Product Standards - A156 Series

2. UL10C – Positive Pressure Fire Tests of Door Assemblies

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:
   a. Type, style, function, size, label, hand, and finish of each door hardware item.
   b. Manufacturer of each item.
   c. Fastenings and other pertinent information.
   d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
   e. Explanation of abbreviations, symbols, and codes contained in schedule.
   f. Mounting locations for door hardware.
   g. Door and frame sizes and materials.
   h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
   a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
   b. Complete (risers, point-to-point) access control system block wiring diagrams.
   c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Proof of Certification: Provide copy of manufacturer(s) official certification or accreditation document indicating proof of status as a qualified and authorized provider of the primary Integrated Wiegand Access Control Products.

E. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

F. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

G. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

D. Integrated Wiegand, Wireless, and IP-Enabled Access Control Products Supplier Qualifications: Integrated access control products and accessories are required to be supplied and installed through current members of the ASSA ABLOY "Authorized Channel Partner" (ACP) and "Certified Integrator" (CI) programs. Suppliers are to be factory trained, certified prior to project bid, and a direct purchaser of the specified product. Installers are to be factory trained, certified prior to project bid, and are responsible for commissioning, servicing, and warranting the installed equipment specified for the project.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

F. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

I. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.

C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:

1. Ten years for mortise locks and latches.
2. Five years for exit hardware.
3. Twenty five years for manual overhead door closer bodies.
4. Five years for motorized electric latch retraction exit devices.
5. Two years for electromechanical door hardware.

1.8 MAINTENANCE SERVICE

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

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:
   a. Two Hinges: For doors with heights up to 60 inches.
   b. Three Hinges: For doors with heights 61 to 90 inches.
   c. Four Hinges: For doors with heights 91 to 120 inches.
   d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
   e. Four hinges at 4’0” wide doors
   f. Four hinges at aluminum doors.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
   a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
   b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
   a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
   b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:
   a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

5. Manufacturers:

   a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - TA Series.

2.3 POWER TRANSFER DEVICES

A. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex ™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

   1. Manufacturers:

      a. Securitron (SU) - EL-CEPT Series.

B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

   1. Provide one each of the following tools as part of the base bid contract:
      a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Electrical Connecting Kit: QC-R001.
      b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Connector Hand Tool: QC-R003.

   2. Manufacturers:

      a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) – QC-C Series.

2.4 DOOR OPERATING TRIM

A. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

   1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
   2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
   3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.

4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.

5. Manufacturers:

   a. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

2.5 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

1. Manufacturers:

   a. Sargent Manufacturing (SA).
   b. No Substitution.

B. Cylinders: Original manufacturer cylinders complying with the following:

1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.
2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored-Lock Type: Cylinders with tailpieces to suit locks.
4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
5. Keyway:.Match Facility Standard.
6. At integrated access control locks and exits, permanent cores to be provided by 087100.

C. Permanent Cores: Manufacturer's standard; finish face to match lockset; complying with the following:

1. Interchangeable Cores: Core insert, removable by use of a special key; usable with other manufacturers' cylinders.

D. Keying System: Each type of lock and cylinders to be factory keyed.

1. Conduct specified "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key locks to match Owner's existing system.

E. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Three (3).
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).
4. Construction Control Keys (where required): Two (2).
5. Permanent Control Keys (where required): Two (2).

F. Construction Keying: Provide temporary keyed construction cores. Contractor is responsible for removing construction cores and installing permanent cores. Credit to be provided to the owner once the construction cores are removed.

G. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

H. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

1. Manufacturers:

a. Lund Equipment (LU).
b. MMF Industries (MM).
c. Telkee (TK).

I. Key Control Software: Provide one network version of "Key Wizard" branded key management software package that includes one year of technical support and upgrades to software at no charge. Provide factory key system formatted for importing into “Key Wizard” software.

2.6 MECHANICAL LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 certified. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.

1. Manufacturers:

a. Sargent Manufacturing (SA) – 8200 Series.
b. No Substitution.

2.7 INTEGRATED WIRED OUTPUT LOCKING DEVICES – MULTI-CLASS READER

A. Integrated Wired Output Multi-Class Mortise Locks: Wiegand or Open Supervised Device Protocol (OSDP) output ANSI A156.13, Grade 1, mortise lockset with integrated card reader with or without keypad option, request-to-exit signaling, door position status switch, and latchbolt monitoring in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle trim, 3/4" deadlocking anti-friction latch, and 1" case-hardened steel deadbolt. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. Open architecture, hard wired platform supports centralized control of locking units with new or existing Wiegand or OSDP compatible access control systems. Latchbolt monitoring and door position switch act in conjunction to report door-in-frame (DPS) and door latched (door closed and latched) conditions.
2. Integrated reader supports the following credentials:
   a. 125kHz proximity credentials: HID, AWID, Indala, and EM4102.

b. 13.56 MHz proximity credentials: HID Secure Identity Object™ (SIO) on iCLASS Seos, HID iCLASS, HID iCLASS SE/SR, MIFARE Classic, DESFire EV1 and EV2.
c. 2.4 GHz credentials: Secure Identity Object™ (SIO) on Mobile IDs (Bluetooth Smart)
d. ISO14443A/B (PIV-compatible Transparent FASC-N read) available with pivCLASS variant
e. NFC-enabled mobile phones
f. PIN code only or PIN + credential with keypad option.

3. 12VDC external power supply required for reader and lock, with optional 24VDC lock solenoid. Fail safe or fail secure options.
4. Energy Efficient Design: Provide lock bodies which have a holding current draw of 500mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.
5. Support end-of-line resistors contained within the lock case.
6. Installation requires only one cable run from the lock to the access control panel without requirements for additional proprietary lock panel interface boards or modules.
7. Installation to include manufacturer's access control panel interface board or module where required for Wiegand or OSDP output protocol.
8. Manufacturers:
   a. Sargent Manufacturing (SA) – SN200 8200 Series.
   b. No Substitution.

2.8 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.9 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as

required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.

2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.

3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.

4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.

5. Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.

6. Motorized Electric Latch Retraction: Devices with an electric latch retraction feature must use motors which have a maximum current draw of 600mA. Solenoid driven latch retraction is not acceptable.

7. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
   a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
   b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

8. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.

9. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.

10. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.

11. Rail Sizing: Provide exit device rails factory sized for proper door width application.

12. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 certified panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.

1. Manufacturers:

   a. Sargent Manufacturing (SA) - 80 Series.
   b. No Substitution.

C. Tube Steel Removable Mullions: ANSI/BHMA A156.3 removable steel mullions with malleable-iron top and bottom retainers and a primed paint finish.

1. Provide keyed removable feature where specified in the Hardware Sets.

2. Provide stabilizers and mounting brackets as required.

3. Provide electrical quick connection wiring options as specified in the hardware sets.

4. Manufacturers:

a. Sargent Manufacturing (SA) - 980S Series.

2.10 INTEGRATED WIRED OUTPUT EXIT DEVICES - MULTI-CLASS READER

A. Integrated Wired Output Multi-Class Exit Hardware: Wiegand output ANSI 156.3 Grade 1 rim, mortise, and vertical rod exit device hardware with integrated card reader with or without keypad option, latchbolt and touchbar monitoring, and request-to-exit signaling, in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle exit trim with 3/4" throw latch bolt. U.L listed and labeled for either panic or "fire exit hardware" for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. Open architecture, hard wired platform supports centralized control of locking units with new or existing Wiegand or OSDP compatible access control systems. Inside push bar (request-to-exit) signaling and door position (open/closed status) monitoring (via separately connected DPS).
2. Integrated reader supports the following credentials:
   a. 125kHz proximity credentials: HID, AWID, Indala, and EM4102.
   b. 13.56 MHz proximity credentials: HID Secure Identity Object™ (SIO) on iCLASS Seos, HID iCLASS, HID iCLASS SE/SR, MIFARE Classic, DESFire EV1 and EV2.
   c. 2.4 GHz credentials: Secure Identity Object™ (SIO) on Mobile IDs (Bluetooth Smart)
   d. ISO14443A/B (PIV-compatible Transparent FASC-N read) available with pivCLASS variant
   e. NFC-enabled mobile phones
   f. PIN code only or PIN + credential with keypad option

3. 12VDC external power supply required for reader. 24VDC required for solenoid operated exit trim. Fail safe or fail secure options.
4. Installation requires only one cable run from the exit hardware to the access control panel without requirements for additional proprietary lock panel interface boards or modules.
5. Competitor Alternates Allowed Option: Installation to include manufacturer's access control panel interface board or module where required for Wiegand or OSDP output protocol.

6. Manufacturers:

   a. Sargent Manufacturing (SA) – SN200 80 Series.
   b. No Substitution.

2.11 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers including installation and adjusting information on inside of cover.

2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

3. Cycle Testing: Provide closers which have surpassed 15 million cycles in a test witnessed and verified by UL.

4. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1.

5. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

6. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

7. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.

1. Manufacturers:

a. Sargent Manufacturing (SA) - 351 Series.
b. No Substitution.

2.12 ELECTROHYDRAULIC DOOR OPERATORS

A. General: Provide low energy operators of size recommended by manufacturer for door size, weight, and movement; for condition of exposure; and for compliance with UL 325. Coordinate operator mechanisms with door operation, hinges, and activation devices.

1. Fire-Rated Doors: Provide door operators for fire-rated door assemblies that comply with NFPA 80 for fire-rated door components and are listed and labeled by a qualified testing agency.

B. Standard: Certified ANSI/BHMA A156.19.

C. Performance Requirements:

1. Opening Force if Power Fails: Not more than 15 lbf required to release a latch if provided, not more than 30 lbf required to manually set door in motion, and not more than 15 lbf required to fully open door.
2. Entrapment Protection: Not more than 15 lbf required to prevent stopped door from closing or opening.

D. Configuration: Surface mounted or in-ground as required. Door operators to control single swinging and pair of swinging doors.

E. Operation: Power opening and spring closing operation capable of meeting ANSI A117.1 accessibility guideline. Provide time delay for door to remain open before initiating closing cycle as required by ANSI/BHMA A156.19. When not in automatic mode, door operator to function as manual door closer with fully adjustable opening and closing forces, with or without electrical power.

F. Features: Operator units to have full feature adjustments for door opening and closing force and speed, backcheck, motor assist acceleration from 0 to 30 seconds, time delay, vestibule interface delay, obstruction recycle, and hold open time from 0 up to 30 seconds.

G. Provide outputs and relays on board the operator to allow for coordination of exit device latch retraction, electric strikes, magnetic locks, card readers, safety and motion sensors and specified auxiliary contacts.

H. Brackets and Reinforcements: Manufacturer's standard, fabricated from aluminum with nonferrous shims for aligning system components.

I. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Norton Door Controls (NO) - 6000 Series.

2.13 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.

2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1” LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.

3. Where plates are applied to fire rated doors with the top of the plate more than 16” above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer’s catalog and template book for specific requirements for size and applications.

4. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:

   a. Stainless Steel: 300 grade, 050-inch thick.

5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.

6. Manufacturers:

   a. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

2.14 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

   a. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

2.15 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).

2.16 ELECTRONIC ACCESSORIES

A. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.

1. Manufacturers:

a. Securitron (SU) - DPS Series.

B. Power Supplies

1. By security contractor

2.17 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.18 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

C. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
2. All quick connection below the ceiling to be made by hardware installer at the time of installation.

D. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

E. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

F. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

G. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.3 FIELD QUALITY CONTROL

A. Field Inspection (Punch-Out Report): Reference Division 01 Section "Closeout Procedures". Final inspect installed door hardware and state in report whether work complies with or deviates from specification requirements, including whether door hardware is properly installed, operating and adjusted.

3.4 ADJUSTING

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

3.5 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.6 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.7 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate selection for the material and application.

4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Manufacturer's Abbreviations:

1. MK - McKinney
2. SA - SARGENT
3. RO - Rockwood
4. NO - Norton
5. PE - Pemko
6. OT - Other
7. SU - Securitron

Hardware Sets

Set: 1.0
Doors: 4132A, 4132B
Description: Exterior Alum Pair - NL x DT

8	Hinge (heavy weight)	T4A3386 4 1/2" x 4 1/2" (NRP)	US32D	MK
1	Removable Mullion	L980S	US28	SA
1	Rim Exit Device, Storeroom	16 TB 43 72 8804 862	US32D	SA
1	Rim Exit Device, Dummy	16 TB 43 72 8810 862	US32D	SA
1	Mullion Cylinder	72 980C1	US26D	SA
4	Small Format Inter Core	7P-7300B	US15	SA
2	Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
2	Drop Plate	351D as required	EN	SA
2	Kit	581-2	EN	SA
1	Rain Guard	346C		PE
2	Sweep	3452AV		PE
1	Lip Threshold	2005AT		PE
1	Perimeter Seal	By door mfgr		OT
2	Position Switch	DPS-M-BK		SU

Notes: Confirm hardware compatibility with aluminum door manufacturer. Wide stile required.

Set: 2.0
Doors: 1127, 4149A, 4149B, 9100, A1026A
Description: Exterior Alum Pair - Access Control

7	Hinge (heavy weight)	T4A3386 4 1/2" x 4 1/2" (NRP)	US32D	MK
1	Hinge, Full Mortise, Hvy Wt	T4A3386 QC* 4-1/2" x 4-1/2"	US32D	MK
1	Electric Power Transfer	EL-CEPT	630	SU

1	Removable Mullion	L980S	US28	SA
1	Rim Exit Device	TB 43 72 56-SN200-8804 862	US32D	SA
1	Rim Exit Device, Dummy	16 TB 43 55 8810 862	US32D	SA
1	Mullion Cylinder	72 980C1	US26D	SA
4	Small Format Inter Core	7P-7300B	US15	SA
2	Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
2	Drop Plate	351D as required	EN	SA
2	Kit	581-2	EN	SA
1	Rain Guard	346C		PE
2	Sweep	3452AV		PE
1	Lip Threshold	2005AT		PE
1	Perimeter Seal	By door mfgr		OT
3	Elec Cables - Exit to Hinge	QC-CxxxP		MK
2	Elec Cables - Hinge to Above	QC-C1500P		MK
1	Power	By Security		OT

Notes: Timer is by security contractor where required.
Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times. EL-CEPT on active leaf.

Confirm hardware compatibility with aluminum door manufacturer. Wide stile required.

Set: 3.0
Doors: 1126B, 4133B, 4133C
Description: Exterior HM Pair - Exit

6	Hinge (heavy weight)	T4A3386 4 1/2" x 4 1/2" (NRP)	US32D	MK
1	Removable Mullion	L980S	PC	SA
1	Rim Exit Device, Storeroom	16 TB 43 72 8804 862	US32D	SA
1	Rim Exit Device, Dummy	16 TB 43 72 8810 862	US32D	SA
1	Mullion Cylinder	72 980C1	US26D	SA
4	Small Format Inter Core	7P-7300B	US15	SA
2	Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
1	Astragal Set (2)	18041CNB		PE
1	Rain Guard	346C		PE
1	Perimeter Seal	2891APK		PE
2	Sweep	3452AV		PE
1	Lip Threshold	2005AT		PE

Notes: Confirm hardware compatibility with door manufacturer. Wide stile required.

Set: 4.0
Doors: 9110, 9121, 9122A, 9131
Description: Exterior Sgl Alum Exit - Access Control

4	Hinge (heavy weight)	T4A3386 4 1/2" x 4 1/2" (NRP)	US32D	MK
1	Electric Power Transfer	EL-CEPT	630	SU
1	Rim Exit Device	TB 43 72 56-SN200-8804 862	US32D	SA

1 Small Format Inter Core	7P-7300B	US15	SA
1 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
1 Kit	581-2	EN	SA
1 Rain Guard	346C		PE
1 Sweep	3452AV		PE
1 Lip Threshold	2005AT		PE
1 Perimeter Seal	By door mfgr		OT
1 Elec Cables - Exit to Hinge	QC-CxxxP		MK
1 Elec Cables - Hinge to Above	QC-C1500P		MK
1 Position Switch	DPS-M-BK		SU
1 Power	By Security		OT

Notes: Timer is by security contractor where required.
Doors are normally closed and secure. Presentation of valid credential will allow entry by pull. Upon loss of power, doors will remain secure. Free egress at all times.

Confirm hardware compatibility with aluminum door manufacturer. Wide stile required.

Set: 5.0
Doors: 4146A
Description: Exterior HM Exit

3 Hinge (heavy weight)	T4A3386 4 1/2" x 4 1/2" (NRP)	US32D	MK
1 Rim Exit Device, Storeroom	16 TB 43 72 8804 FSW	US32D	SA
2 Small Format Inter Core	7P-7300B	US15	SA
1 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
1 Rain Guard	346C		PE
1 Perimeter Seal	2891APK		PE
1 Sweep	3452AV		PE
1 Lip Threshold	2005AT		PE
1 Position Switch	DPS-M-BK		SU

Set: 6.0
Doors: 4147, A129B
Description: Exterior HM - Lock - DPS

3 Hinge (heavy weight)	T4A3386 4 1/2" x 4 1/2" (NRP)	US32D	MK
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
1 Rain Guard	346C		PE
1 Perimeter Seal	2891APK		PE
1 Sweep	3452AV		PE
1 Lip Threshold	2005AT		PE
1 Position Switch	DPS-M-BK		SU

Set: 7.0
Doors: 9101
Description: Vest Alum Sgl - Exit

4 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Rim Exit Device, Storeroom	16 TB 43 72 8804 862	US32D	SA
2 Small Format Inter Core	7P-7300B	US15	SA
1 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
1 Kit	581-2	EN	SA
1 Perimeter Seal	By door mfgr		OT

Notes: Buzzer if required is by security contractor.

Set: 8.0
Doors: A4100A
Description: Pair Alum - Corr / Gym / Cafeteria - MHO

8 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Removable Mullion	L980S	US28	SA
2 Rim Exit Device, Classroom	16 TB 43 72 8813 ETJ	US32D	SA
1 Mullion Cylinder	72 980C1	US26D	SA
5 Small Format Inter Core	7P-7300B	US15	SA
2 Door Closer	TB 351 O / PS as req	EN	SA
2 Kit	581-2	EN	SA
2 Electromagnetic Holder	990 Series	689	RF
1 Perimeter Seal	By door mfgr		OT

Notes: Doors are held open. Upon loss of power or signal from fire control, doors will close and latch. Wiring is by others

Set: 10.0
Doors: 4139A
Description: Pair Storage Closer

6 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Dust Proof Strike	570	US26D	RO
2 Flush Bolt	555 - 12"/72" A.F.F.	US26D	RO
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
2 Door Closer	TB 351 O / PS as req	EN	SA
2 Silencer	608		RO

Set: 12.0
Doors: 4133A, 4133D, 4146B
Description: *Pair - Corr/Gym/Classroom

6 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Removable Mullion	L980S	PC	SA
2 Rim Exit Device, Classroom	16 TB 43 72 8813 ETJ	US32D	SA
1 Mullion Cylinder	72 980C1	US26D	SA
5 Small Format Inter Core	7P-7300B	US15	SA

2 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
1 Astragal Set (2)	18041CNB		PE
1 Perimeter Seal	S88BL		PE

Set: 13.0
Doors: 2810
Description: *Sgl - Corr/Gym - 4'

4 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Rim Exit Device, Classroom	16 TB 43 72 8813 ETJ	US32D	SA
2 Small Format Inter Core	7P-7300B	US15	SA
1 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
1 Perimeter Seal	S88BL		PE

Set: 14.0
Doors: A1015, A1021
Description: Pair - Corr/Gym/Classroom - MHO

6 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Removable Mullion	L980S	PC	SA
2 Rim Exit Device, Classroom	16 TB 43 72 8813 ETJ	US32D	SA
1 Mullion Cylinder	72 980C1	US26D	SA
5 Small Format Inter Core	7P-7300B	US15	SA
2 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
2 Electromagnetic Holder	990 Series	689	RF
1 Astragal Set (2)	18041CNB		PE
1 Perimeter Seal	S88BL		PE

Notes: Doors are held open. Upon loss of power or signal from fire control, doors will close and latch. Wiring is by others.

Set: 15.0
Doors: 1126A, 3132
Description: Pair Stair

6 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Removable Mullion	12-L980	PC	SA
2 Rim Exit Device, Passage	12 TB 43 8815 ETJ	US32D	SA
1 Mullion Cylinder	72 980C1	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
2 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
2 Perimeter Seal	S88BL		PE

Set: 17.0
Doors: 1116C, 1125B, 1129, 3115C, 9114, 9117, 9128, 9138, 2161A
Description: Storage

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK

1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Stop	481	US26D	RO
3 Silencer	608		RO

Set: 19.0
Doors: 1120, 1213A, 3119, 3128, 4135, 4136, 4137, 4138, 9130
Description: Storage - Closer

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Closer	TB 351 O / PS as req	EN	SA
1 Door Stop	481	US26D	RO
3 Silencer	608		RO

Set: 20.0
Doors: 4139B, 9101B
Description: Storage - Closer - 4'

4 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Closer	TB 351 O	EN	SA
1 Door Stop	481	US26D	RO
3 Silencer	608		RO

Set: 22.0
Doors: 1043, 1113C, 3112C, 3127, 3130, 4134, 9118, 9119, 9120, 9124
Description: Storage - Closer - Gasket

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Closer	TB 351 O / PS as req	EN	SA
1 Door Stop	481	US26D	RO
1 Perimeter Seal	S88BL		PE

Set: 24.0
Doors: 9116
Description: Storage -Dutch- OH Stop

4 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Dutch Door Bolt	630-4	US26D	RO
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Concealed Overhead Stop	690S	US26D	SA

1 Door Stop	481	US26D	RO
3 Silencer	608		RO

Set: 25.0
Doors: 1125A, 1125C, 1125D, 1125E, 1125F, 4143, 4144, 9105, 9108, 9109, 9112, 9113, 9133, 9135, 9136
Description: Office

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Office/Entry Lock	72 8205 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Stop	481	US26D	RO
3 Silencer	608		RO

Set: 26.0
Doors: 1115A, 1115B, 1117A, 1117B, 3114A, 3114B, 3116A, 3116B, 9115
Description: *Large Classroom / Media Typical- Exit

3 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Rim Exit Device, Classroom	16 TB 43 72 8813 ETJ	US32D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
3 Silencer	608		RO

Set: 27.0
Doors: 9126, 9137
Description: Classroom

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Classroom Lock	72 8237 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Stop	481	US26D	RO
3 Silencer	608		RO

Set: 29.0
Doors: 1114A, 1114B, 1121, 1122, 1123, 1124, 1125, 1128, 1164, 1214A, 1214B, 3113A, 3113B, 3121, 3122, 3123, 3124, 3126, 3213A, 3213B, 9102, 9103
Description: *Typical Classroom/ Corridor - Closer

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Classroom Lock	72 8237 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Closer	TB 351 O / PS as req	EN	SA
1 Door Stop	481	US26D	RO
3 Silencer	608		RO

Set: 32.0

Doors: 1213, 9111, 9122B
Description: Classroom - Closer

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Classroom Lock	72 8237 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Door Closer	TB 351 O	EN	SA
3	Silencer	608		RO

Set: 32.1
Doors: 2400H
Description: Replace Lockset - Locker

1	Classroom Lock	72 8237 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA

Notes: Existing lock must be field verified prior to purchase. This set is for design intent only.

Set: 33.0
Doors: 9132
Description: Alum Office- Closer

4	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Classroom Lock	72 8237 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Door Closer	TB 351 O	EN	SA
1	Door Stop	481	US26D	RO
1	Perimeter Seal	By door mfgr		OT

Notes: Confirm hardware compatibility with aluminum door manufacturer. Wide stile required.

Set: 36.0
Doors: 1113A, 1113B, 1116A, 1116B, 3112A, 3112B, 3115A, 3115B
Description: Prep

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Classroom Lock	72 8237 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Door Stop	481	US26D	RO
3	Silencer	608		RO

Set: 38.0
Doors: 1118, 1119, 2815, 2841, 3117, 3118, 4141, 4142A2, 4142B2, 4143A, 4144A, 4145B, 4145C, 4148
Description: Shared Restroom/Locker / Dressing P/P

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Push Plate	70E	US32D	RO
1	Pull Plate	111x70C	US32D	RO
1	Door Closer	TB 351 O / PS as req	EN	SA
1	Door Stop	481	US26D	RO
1	Perimeter Seal	S88BL		PE

Set: 39.0
Doors: 4142A1, 4142B1, 4145A, 4145D
Description: Locker - Closer - DB

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Public Toilet Deadlock	72 4878	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Push Plate	70E	US32D	RO
1	Pull Plate	111x70C	US32D	RO
1	Door Closer	TB 351 O / PS as req	EN	SA
1	Perimeter Seal	S88BL		PE

Set: 41.0
Doors: 9107, 9125, 9129
Description: Int Restroom / Admin area

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Privacy Set w/ Indicator	49 8265 LNJ	US26D	SA
1	Door Closer	TB 351 O / PS as req	EN	SA
1	Door Stop	481	US26D	RO
1	Perimeter Seal	S88BL		PE

Set: 42.0
Doors: 9106
Description: Class Restroom

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Privacy Set w/ Indicator	49 8265 LNJ	US26D	SA
1	Door Stop	481	US26D	RO
1	Perimeter Seal	S88BL		PE

Set: 43.0
Doors: 9127, 9134
Description: Isolation / Exam

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Passage Set	8215 LNJ	US26D	SA
1	Door Stop	481	US26D	RO
3	Silencer	608		RO

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END OF SECTION 08 71 00

SECTION 08 71 00 – DOOR HARDWARE - ALTERNATE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

1. Swinging doors.
2. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:

1. Mechanical door hardware.
2. Electromechanical door hardware.
3. Automatic operators.
4. Cylinders specified for doors in other sections.

C. Related Sections:

1. Division 08 Section “Hollow Metal Doors and Frames”.
2. Division 08 Section “Flush Wood Doors”.
3. Division 08 Section “Aluminum-Framed Entrances and Storefronts”.
4. Division 08 Section “Automatic Door Operators”.
5. Division 28 Section “Access Control Hardware Devices”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.

1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
2. ICC/IBC - International Building Code.
3. NFPA 70 - National Electrical Code.
4. NFPA 80 - Fire Doors and Windows.
5. NFPA 101 - Life Safety Code.
6. NFPA 105 - Installation of Smoke Door Assemblies.
7. UL/ULC and CSA C22.2 – Standards for Automatic Door Operators Used on Fire and Smoke Barrier Doors and Systems of Doors.
8. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards:

1. ANSI/BHMA Certified Product Standards - A156 Series
2. UL10C – Positive Pressure Fire Tests of Door Assemblies

1.3 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."

2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.

3. Content: Include the following information:
   a. Type, style, function, size, label, hand, and finish of each door hardware item.
   b. Manufacturer of each item.
   c. Fastenings and other pertinent information.
   d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
   e. Explanation of abbreviations, symbols, and codes contained in schedule.
   f. Mounting locations for door hardware.
   g. Door and frame sizes and materials.
   h. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:

1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
   a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
   b. Complete (risers, point-to-point) access control system block wiring diagrams.
   c. Wiring instructions for each electronic component scheduled herein.

2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Proof of Certification: Provide copy of manufacturer(s) official certification or accreditation document indicating proof of status as a qualified and authorized provider of the primary Integrated Wiegand Access Control Products.

E. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

F. Informational Submittals:

1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

G. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Procedures.

1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

D. Integrated Wiegand, Wireless, and IP-Enabled Access Control Products Supplier Qualifications: Integrated access control products and accessories are required to be supplied and installed through current members of the ASSA ABLOY "Authorized Channel Partner" (ACP) and "Certified Integrator" (CI) programs. Suppliers are to be factory trained, certified prior to project bid, and a direct purchaser of the specified product. Installers are to be factory trained, certified prior to project bid, and are responsible for commissioning, servicing, and warranting the installed equipment specified for the project.

E. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.

2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

F. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

1. Function of building, purpose of each area and degree of security required.
2. Plans for existing and future key system expansion.
3. Requirements for key control storage and software.
4. Installation of permanent keys, cylinder cores and software.
5. Address and requirements for delivery of keys.

H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware.

1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required.
2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
3. Review sequence of operation narratives for each unique access controlled opening.
4. Review and finalize construction schedule and verify availability of materials.
5. Review the required inspecting, testing, commissioning, and demonstration procedures

I. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.

C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.7 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:

1. Structural failures including excessive deflection, cracking, or breakage.
2. Faulty operation of the hardware.
3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:

1. Ten years for mortise locks and latches.
2. Five years for exit hardware.
3. Twenty five years for manual overhead door closer bodies.
4. Five years for motorized electric latch retraction exit devices.
5. Two years for electromechanical door hardware.

1.8 MAINTENANCE SERVICE

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

PART 2 - PRODUCTS

2.1 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.2 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.

1. Quantity: Provide the following hinge quantity:
   a. Two Hinges: For doors with heights up to 60 inches.
   b. Three Hinges: For doors with heights 61 to 90 inches.
   c. Four Hinges: For doors with heights 91 to 120 inches.
   d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
   e. Four hinges at 4’0” wide doors
   f. Four hinges at aluminum doors.

2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
   a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
   b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.

3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:
   a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
   b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:
   a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.

5. Manufacturers:

   a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - TA Series.

2.3 POWER TRANSFER DEVICES

A. Concealed Quick Connect Electric Power Transfers: Provide concealed wiring pathway housing mortised into the door and frame for low voltage electrified door hardware. Furnish with Molex ™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:

   a. Securitron (SU) - EL-CEPT Series.

B. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:
   a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Electrical Connecting Kit: QC-R001.
   b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Connector Hand Tool: QC-R003.

2. Manufacturers:

   a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) – QC-C Series.

2.4 DOOR OPERATING TRIM

A. Door Push Plates and Pulls: ANSI/BHMA A156.6 certified door pushes and pulls of type and design specified in the Hardware Sets. Coordinate and provide proper width and height as required where conflicting hardware dictates.

1. Push/Pull Plates: Minimum .050 inch thick, size as indicated in hardware sets, with beveled edges, secured with exposed screws unless otherwise indicated.
2. Door Pull and Push Bar Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door unless otherwise indicated.
3. Offset Pull Design: Size, shape, and material as indicated in the hardware sets. Minimum clearance of 2 1/2-inches from face of door and offset of 90 degrees unless otherwise indicated.

4. Fasteners: Provide manufacturer's designated fastener type as indicated in Hardware Sets.

5. Manufacturers:

   a. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

2.5 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy.

1. Manufacturers:

   a. Sargent Manufacturing (SA).
   b. No Substitution.

B. Cylinders: Original manufacturer cylinders complying with the following:

1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.
2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored-Lock Type: Cylinders with tailpieces to suit locks.
4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
5. Keyway:.Match Facility Standard.
6. At integrated access control locks and exits, permanent cores to be provided by 087100.

C. Permanent Cores: Manufacturer's standard; finish face to match lockset; complying with the following:

1. Interchangeable Cores: Core insert, removable by use of a special key; usable with other manufacturers' cylinders.

D. Keying System: Each type of lock and cylinders to be factory keyed.

1. Conduct specified "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. Existing System: Field verify and key locks to match Owner's existing system.

E. Key Quantity: Provide the following minimum number of keys:

1. Change Keys per Cylinder: Three (3).
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).
4. Construction Control Keys (where required): Two (2).
5. Permanent Control Keys (where required): Two (2).

F. Construction Keying: Provide temporary keyed construction cores. Contractor is responsible for removing construction cores and installing permanent cores. Credit to be provided to the owner once the construction cores are removed.

G. Key Registration List (Bitting List):

1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

H. Key Control Cabinet: Provide a key control system including envelopes, labels, and tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet. Key control cabinet shall have expansion capacity of 150% of the number of locks required for the project.

1. Manufacturers:

a. Lund Equipment (LU).
b. MMF Industries (MM).
c. Telkee (TK).

I. Key Control Software: Provide one network version of "Key Wizard" branded key management software package that includes one year of technical support and upgrades to software at no charge. Provide factory key system formatted for importing into “Key Wizard” software.

2.6 MECHANICAL LOCKS AND LATCHING DEVICES

A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 certified. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body.

1. Manufacturers:

a. Sargent Manufacturing (SA) – 8200 Series.
b. No Substitution.

2.7 INTEGRATED WIRED OUTPUT LOCKING DEVICES – MULTI-CLASS READER

A. Integrated Wired Output Multi-Class Mortise Locks: Wiegand or Open Supervised Device Protocol (OSDP) output ANSI A156.13, Grade 1, mortise lockset with integrated card reader with or without keypad option, request-to-exit signaling, door position status switch, and latchbolt monitoring in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle trim, 3/4" deadlocking anti-friction latch, and 1" case-hardened steel deadbolt. Lock is U.L listed and labeled for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. Open architecture, hard wired platform supports centralized control of locking units with new or existing Wiegand or OSDP compatible access control systems. Latchbolt monitoring and door position switch act in conjunction to report door-in-frame (DPS) and door latched (door closed and latched) conditions.
2. Integrated reader supports the following credentials:
   a. 125kHz proximity credentials: HID, AWID, Indala, and EM4102.

b. 13.56 MHz proximity credentials: HID Secure Identity Object™ (SIO) on iCLASS Seos, HID iCLASS, HID iCLASS SE/SR, MIFARE Classic, DESFire EV1 and EV2.
c. 2.4 GHz credentials: Secure Identity Object™ (SIO) on Mobile IDs (Bluetooth Smart)
d. ISO14443A/B (PIV-compatible Transparent FASC-N read) available with pivCLASS variant
e. NFC-enabled mobile phones
f. PIN code only or PIN + credential with keypad option.

3. 12VDC external power supply required for reader and lock, with optional 24VDC lock solenoid. Fail safe or fail secure options.
4. Energy Efficient Design: Provide lock bodies which have a holding current draw of 500mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.
5. Support end-of-line resistors contained within the lock case.
6. Installation requires only one cable run from the lock to the access control panel without requirements for additional proprietary lock panel interface boards or modules.
7. Installation to include manufacturer's access control panel interface board or module where required for Wiegand or OSDP output protocol.
8. Manufacturers:
   a. Sargent Manufacturing (SA) – SN200 8200 Series.
   b. No Substitution.

2.8 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.9 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as

required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.

2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer's catalog and template book for specific requirements.

3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the pushbar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.

4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.

5. Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.

6. Motorized Electric Latch Retraction: Devices with an electric latch retraction feature must use motors which have a maximum current draw of 600mA. Solenoid driven latch retraction is not acceptable.

7. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
   a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
   b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.

8. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.

9. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2" wide stiles.

10. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.

11. Rail Sizing: Provide exit device rails factory sized for proper door width application.

12. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 certified panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.

1. Manufacturers:

   a. Sargent Manufacturing (SA) - 80 Series.
   b. No Substitution.

C. Tube Steel Removable Mullions: ANSI/BHMA A156.3 removable steel mullions with malleable-iron top and bottom retainers and a primed paint finish.

1. Provide keyed removable feature where specified in the Hardware Sets.

2. Provide stabilizers and mounting brackets as required.

3. Provide electrical quick connection wiring options as specified in the hardware sets.

4. Manufacturers:

a. Sargent Manufacturing (SA) - 980S Series.

2.10 INTEGRATED WIRED OUTPUT EXIT DEVICES - MULTI-CLASS READER

A. Integrated Wired Output Multi-Class Exit Hardware: Wiegand output ANSI 156.3 Grade 1 rim, mortise, and vertical rod exit device hardware with integrated card reader with or without keypad option, latchbolt and touchbar monitoring, and request-to-exit signaling, in one complete unit. Hard wired, solenoid driven locking/unlocking control of the lever handle exit trim with 3/4" throw latch bolt. U.L listed and labeled for either panic or "fire exit hardware" for use on up to 3 hour fire rated openings. Available with or without keyed high security cylinder override.

1. Open architecture, hard wired platform supports centralized control of locking units with new or existing Wiegand or OSDP compatible access control systems. Inside push bar (request-to-exit) signaling and door position (open/closed status) monitoring (via separately connected DPS).
2. Integrated reader supports the following credentials:
   a. 125kHz proximity credentials: HID, AWID, Indala, and EM4102.
   b. 13.56 MHz proximity credentials: HID Secure Identity Object™ (SIO) on iCLASS Seos, HID iCLASS, HID iCLASS SE/SR, MIFARE Classic, DESFire EV1 and EV2.
   c. 2.4 GHz credentials: Secure Identity Object™ (SIO) on Mobile IDs (Bluetooth Smart)
   d. ISO14443A/B (PIV-compatible Transparent FASC-N read) available with pivCLASS variant
   e. NFC-enabled mobile phones
   f. PIN code only or PIN + credential with keypad option

3. 12VDC external power supply required for reader. 24VDC required for solenoid operated exit trim. Fail safe or fail secure options.
4. Installation requires only one cable run from the exit hardware to the access control panel without requirements for additional proprietary lock panel interface boards or modules.
5. Competitor Alternates Allowed Option: Installation to include manufacturer's access control panel interface board or module where required for Wiegand or OSDP output protocol.

6. Manufacturers:

   a. Sargent Manufacturing (SA) – SN200 80 Series.
   b. No Substitution.

2.11 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:

1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers including installation and adjusting information on inside of cover.

2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.

3. Cycle Testing: Provide closers which have surpassed 15 million cycles in a test witnessed and verified by UL.

4. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1.

5. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.

6. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.

7. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.

1. Manufacturers:

   a. Sargent Manufacturing (SA) - 351 Series.
   b. No Substitution.

2.12 ELECTROHYDRAULIC DOOR OPERATORS

A. General: Provide low energy operators of size recommended by manufacturer for door size, weight, and movement; for condition of exposure; and for compliance with UL 325. Coordinate operator mechanisms with door operation, hinges, and activation devices.

1. Fire-Rated Doors: Provide door operators for fire-rated door assemblies that comply with NFPA 80 for fire-rated door components and are listed and labeled by a qualified testing agency.

B. Standard: Certified ANSI/BHMA A156.19.

C. Performance Requirements:

1. Opening Force if Power Fails: Not more than 15 lbf required to release a latch if provided, not more than 30 lbf required to manually set door in motion, and not more than 15 lbf required to fully open door.
2. Entrapment Protection: Not more than 15 lbf required to prevent stopped door from closing or opening.

D. Configuration: Surface mounted or in-ground as required. Door operators to control single swinging and pair of swinging doors.

E. Operation: Power opening and spring closing operation capable of meeting ANSI A117.1 accessibility guideline. Provide time delay for door to remain open before initiating closing cycle as required by ANSI/BHMA A156.19. When not in automatic mode, door operator to function as manual door closer with fully adjustable opening and closing forces, with or without electrical power.

F. Features: Operator units to have full feature adjustments for door opening and closing force and speed, backcheck, motor assist acceleration from 0 to 30 seconds, time delay, vestibule interface delay, obstruction recycle, and hold open time from 0 up to 30 seconds.

G. Provide outputs and relays on board the operator to allow for coordination of exit device latch retraction, electric strikes, magnetic locks, card readers, safety and motion sensors and specified auxiliary contacts.

H. Brackets and Reinforcements: Manufacturer's standard, fabricated from aluminum with nonferrous shims for aligning system components.

I. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Norton Door Controls (NO) - 6000 Series.

2.13 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.

2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.

3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications.

4. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:

   a. Stainless Steel: 300 grade, 050-inch thick.

5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.

6. Manufacturers:

   a. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

2.14 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:

   a. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

2.15 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).

2.16 ELECTRONIC ACCESSORIES

A. Door Position Switches: Door position magnetic reed contact switches specifically designed for use in commercial door applications. On recessed models the contact and magnetic housing snap-lock into a 1" diameter hole. Surface mounted models include wide gap distance design complete with armored flex cabling. Provide SPDT, N/O switches with optional Rare Earth Magnet installation on steel doors with flush top channels.

1. Manufacturers:

a. Securitron (SU) - DPS Series.

B. Power Supplies

1. By security contractor

2.17 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.18 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.2 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

C. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.
2. All quick connection below the ceiling to be made by hardware installer at the time of installation.

D. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

E. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

F. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

G. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.3 FIELD QUALITY CONTROL

A. Field Inspection (Punch-Out Report): Reference Division 01 Section "Closeout Procedures". Final inspect installed door hardware and state in report whether work complies with or deviates from specification requirements, including whether door hardware is properly installed, operating and adjusted.

3.4 ADJUSTING

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

3.5 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.6 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.7 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

1. Quantities listed are for each pair of doors, or for each single door.

2. The supplier is responsible for handing and sizing all products.

3. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate selection for the material and application.

4. At existing openings with new hardware the supplier shall field inspect existing conditions prior to the submittal stage to verify the specified hardware will work as required. Provide alternate solutions and proposals as needed.

B. Manufacturer's Abbreviations:

1. MK - McKinney
2. SA - SARGENT
3. RO - Rockwood
4. NO - Norton
5. PE - Pemko
6. OT - Other
7. SU - Securitron

Hardware Sets

Set: 8.0
Doors: 1200, 3200
Description: Pair Alum - Corr / Gym / Cafeteria - MHO

8 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Removable Mullion	L980S	US28	SA
2 Rim Exit Device, Classroom	16 TB 43 72 8813 ETJ	US32D	SA
1 Mullion Cylinder	72 980C1	US26D	SA
5 Small Format Inter Core	7P-7300B	US15	SA
2 Door Closer	TB 351 O / PS as req	EN	SA
2 Kit	581-2	EN	SA
2 Electromagnetic Holder	990 Series	689	RF
1 Perimeter Seal	By door mfgr		OT

Notes: Doors are held open. Upon loss of power or signal from fire control, doors will close and latch. Wiring is by others.

Set: 9.0
Doors: 1170, 1222, 3102, 3131, 3201, 3231
Description: Pair Mech/Elec - Outswing

6 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Dust Proof Strike	570	US26D	RO
2 Flush Bolt	555 - 12"/72" A.F.F.	US26D	RO
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Surface Closer	351 PS	EN	SA
1 Astragal	355CS		PE
1 Perimeter Seal	S88BL		PE

Set: 10.0
Doors: 6110, 7127
Description: Pair Storage Closer

6 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Dust Proof Strike	570	US26D	RO
2 Flush Bolt	555 - 12"/72" A.F.F.	US26D	RO
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
2 Door Closer	TB 351 O / PS as req	EN	SA
2 Silencer	608		RO

Set: 11.0
Doors: 7145
Description: Pair Storage Inswing

6 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Dust Proof Strike	570	US26D	RO
2 Flush Bolt	555 - 12"/72" A.F.F.	US26D	RO
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
2 Door Stop	481	US26D	RO
2 Silencer	608		RO

Set: 12.0
Doors: 2120B, 2120, 2140B, 2150A, 2156, 3100, 7101D, 7101E, 7121C, 7121D, 7122, 7128D, 7128E, 7128F, 7140A, 7150A
Description: *Pair - Corr/Gym/Classroom

6 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Removable Mullion	L980S	PC	SA
2 Rim Exit Device, Classroom	16 TB 43 72 8813 ETJ	US32D	SA
1 Mullion Cylinder	72 980C1	US26D	SA
5 Small Format Inter Core	7P-7300B	US15	SA
2 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
1 Astragal Set (2)	18041CNB		PE
1 Perimeter Seal	S88BL		PE

Set: 12.1
Doors: 7128G, 7140B
Description: *Pair - Passage Exit

6 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Removable Mullion	L980S	PC	SA
2 Rim Exit Device, Passage	16 TB 43 8815 ETJ	US32D	SA
1 Mullion Cylinder	72 980C1	US26D	SA
3 Small Format Inter Core	7P-7300B	US15	SA
2 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA

1 Astragal Set (2)	18041CNB		PE
1 Perimeter Seal	S88BL		PE

Set: 14.0
Doors: 1200A, 2150, 1210B
Description: Pair - Corr/Gym/Classroom - MHO

6 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Removable Mullion	L980S	PC	SA
2 Rim Exit Device, Classroom	16 TB 43 72 8813 ETJ	US32D	SA
1 Mullion Cylinder	72 980C1	US26D	SA
5 Small Format Inter Core	7P-7300B	US15	SA
2 Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
2 Electromagnetic Holder	990 Series	689	RF
1 Astragal Set (2)	18041CNB		PE
1 Perimeter Seal	S88BL		PE

Notes: Doors are held open. Upon loss of power or signal from fire control, doors will close and latch. Wiring is by others.

Set: 16.0
Doors: ST-05
Description: Sgl Stair

3 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Rim Exit Device, Passage	12 TB 43 8815 ETJ	US32D	SA
1 Door Closer	TB 351 O / PS as req	EN	SA
1 Door Stop	481	US26D	RO
1 Perimeter Seal	S88BL		PE

Set: 17.0
Doors: 1213E, 1218A, 1161A, 1165B, 1167B, A2104, 2104, 2108, 2116A, 2116B, 2122, 2126A, 2126B, 2161B, 3125A, 3152, 3156, 3172, 3176, 3225A, 3252, 3256, 3272, 3276, 6123B, 7101B, 7101C, 7104A, 7105A, 7121B, 7126A, 7126B, 7152, 7247
Description: Storage

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Stop	481	US26D	RO
3 Silencer	608		RO

Set: 18.0
Doors: 7142A, 7142B
Description: Storage - 4'

4 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK

1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Stop	481	US26D	RO
3 Silencer	608		RO

Set: 19.0
Doors: 1163, 1165, 1205, 2112B, 2130, 2143, 2310A, 3101, 3124C, 3125B, 3224A, 3225B, 3226, 3261, 3262, 6102, 6108A, 7103A, 7103B, 7112, 7113
Description: Storage - Closer

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Closer	TB 351 O / PS as req	EN	SA
1 Door Stop	481	US26D	RO
3 Silencer	608		RO

Set: 21.0
Doors: 2140A, 2141
Description: Storage - Closer - Gasket - Wide

3 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Closer	TB 351 O / PS as req	EN	SA
1 Door Stop	481	US26D	RO
1 Perimeter Seal	S88BL		PE

Set: 21.1
Doors: 7111, 2157
Description: Storage - Closer - Gasket -4'

4 Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Closer	TB 351 O / PS as req	EN	SA
1 Door Stop	481	US26D	RO
1 Perimeter Seal	S88BL		PE

Set: 22.0
Doors: 1113C, 2112A, 2142, 2152, 2161, 3111, 3140, 3154, 3174, 3210, 3226A, 3226B, 3240, 3254, 3274, 3112A, 3112B, 3112C, 6122
Description: Storage - Closer - Gasket

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Closer	TB 351 O / PS as req	EN	SA

1	Door Stop	481	US26D	RO
1	Perimeter Seal	S88BL		PE

Set: 22.1
Doors: 7249
Description: Storage - Closer - Gasket - STC

3	Hinges	By the STC Door Manufacturer		OT
1	Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Door Closer	TB 351 O / PS as req	EN	SA
1	Door Stop	481	US26D	RO
1	Gasket, threshold, door bottom	By the STC Door Manufacturer		OT

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

Door hardware is specified for design intent. Confirm hardware compatibility and design meets the door manufacturer's approved assembly testing for the STC level indicated.

Set: 23.0
Doors: 1211, 2103C
Description: Storage - Closer/stop - Gasket

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Storeroom/Closet Lock	72 8204 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Surface Closer	351 PS	EN	SA
1	Perimeter Seal	S88BL		PE

Set: 25.0
Doors: 1213A, 1213B, 1213C, 1213D, 1216A, 1218C, 1220A, 2115A, 2121A, 2121B, 2106, 2159A, 2160, 3151, 3153, 3155, 3171, 3173, 3175, 3251, 3253, 3255, 3271, 3273, 3275, 6111, 6123A, 7101A, 7102, 7104B, 7104C, 7121A, 7129, 7130, 7141, 7143, 7151, 7241, 7242
Description: Office

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Office/Entry Lock	72 8205 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Door Stop	481	US26D	RO
3	Silencer	608		RO

Set: 25.1
Doors: 7241, 7242
Description: Office - STC

3	Hinges	By the STC Door Manufacturer		OT
1	Office/Entry Lock	72 8205 LNJ	US26D	SA

1	Small Format Inter Core	7P-7300B	US15	SA
1	Door Stop	481	US26D	RO
1	Gasket, threshold, door bottom	By the STC Door Manufacturer		OT

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

Door hardware is specified for design intent. Confirm hardware compatibility and design meets the door manufacturer's approved assembly testing for the STC level indicated.

Set: 26.0
Doors: 1113A, 1113B, 3104A, 3104B, 3106A, 3106B, 3133A, 3133B, 3135A, 3135B, 3160, 3203A, 3203B, 3205A, 3205B, 3233A, 3233B, 3235A, 3235B, 6105A, 6105B, 7126, 7126C
Description: *Large Classroom / Media Typical- Exit

3	Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1	Rim Exit Device, Classroom	16 TB 43 72 8813 ETJ	US32D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Surface Closer	TB 351 CPS brkt/spacer as req	EN	SA
3	Silencer	608		RO

Set: 27.0
Doors: 1167A, 3178A, 3178B, 3258B, 3278, 3112A, 3112B
Description: Classroom

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Classroom Lock	72 8237 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Door Stop	481	US26D	RO
3	Silencer	608		RO

Set: 28.0
Doors: 2107
Description: Classroom - Closer - Vestibule - 4'

4	Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1	Classroom Lock	72 8237 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Door Closer	TB 351 O / PS as req	EN	SA
1	Door Stop	481	US26D	RO
1	Perimeter Seal	S88BL		PE

Notes: Insure egress is allowed from vestibule.

Set: 29.0
Doors: 1114A, 1114B, 1213, 1214, 1214A, 1214B, 1216, 1217, 1162, 1166, 1167, 1172, 1212, 1215, 1218, 1219, 1220, 2126, 2158, 2159, 3103, 3105, 3107, 3108, 3109, 3113, 3113A, 3113B, 3213A, 3213B, 3114, 3115, 3122, 3128, 3132, 3134, 3136, 3137, 3138, 3142, 3143, 3144, 3157C, 3157D, 3202, 3204,

3206, 3207, 3208, 3212, 3213, 3214, 3222, 3228, 3232, 3237, 3238, 3242, 3243, 3244, 3260, 3263, 7103, 7104, 7105, 7246B
Description: *Typical Classroom/ Corridor - Closer

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Classroom Lock	72 8237 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Door Closer	TB 351 O / PS as req	EN	SA
1	Door Stop	481	US26D	RO
3	Silencer	608		RO

Set: 30.0
Doors: 3126
Description: Pair Classroom/ Corridor - Closer - Inswing

6	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Dust Proof Strike	570	US26D	RO
1	Automatic Flush Bolts	2842/2942	US26D	RO
1	Classroom Lock	72 8237 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Coordinator	2672	US28	RO
2	Mounting Bracket	2601AB	US28	RO
2	Door Closer	TB 351 O / PS as req	EN	SA
2	Door Stop	481	US26D	RO
2	Silencer	608		RO

Set: 31.0
Doors: 1161, 7155
Description: *Typical Classroom/ Corridor - Closer - 4'

4	Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D	MK
1	Classroom Lock	72 8237 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Door Closer	TB 351 O / PS as req	EN	SA
1	Door Stop	481	US26D	RO
3	Silencer	608		RO

Set: 32.0
Doors: 2102, 2116, 3150, 3158, 3170, 3177C, 3177D, 3250, 3257C, 3257D, 3258A, 3270, 3277C, 3277D
Description: Classroom - Closer

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1	Classroom Lock	72 8237 LNJ	US26D	SA
1	Small Format Inter Core	7P-7300B	US15	SA
1	Door Closer	TB 351 O	EN	SA
3	Silencer	608		RO

Set: 34.0

Doors: 3103A, 3108A, 3109A, 3115A, 3132A, 3136A, 3138A, 3144A, 3202A, 3207A, 3208A, 3214A, 3232A, 3237A, 3238A, 3244A
Description: Passage - Between Classrooms

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D MK
1	Passage Set	8215 LNJ	US26D SA
1	Door Stop	481	US26D RO
3	Silencer	608	RO

Set: 35.0
Doors: 3124A, 3124B, 3124D, 3124E, 3224B, 3224C, 3224D, 3224E
Description: Prep - OH Stop

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D MK
1	Classroom Lock	72 8237 LNJ	US26D SA
1	Small Format Inter Core	7P-7300B	US15 SA
1	Concealed Overhead Stop	690S	US26D SA
3	Silencer	608	RO

Set: 37.0
Doors: 6123C
Description: Laundry - 4'

4	Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D MK
1	Classroom Lock	72 8237 LNJ	US26D SA
1	Small Format Inter Core	7P-7300B	US15 SA
1	Door Stop	481	US26D RO
3	Silencer	608	RO

Set: 38.0
Doors: 1203, 1204, 2111, 2113, 2123, 2124, 2154, 2155, 3110, 3112, 3139, 3141, 3209, 3211, 3239, 3241, 6103, 6104, 6107, 6109, 6123D, 6123E, 7128A, 7131A, 7246A
Description: Shared Restroom/Locker / Dressing P/P

3	Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D MK
1	Push Plate	70E	US32D RO
1	Pull Plate	111x70C	US32D RO
1	Door Closer	TB 351 O / PS as req	EN SA
1	Door Stop	481	US26D RO
1	Perimeter Seal	S88BL	PE

Set: 38.1
Doors: 6123
Description: Shared Restroom/Locker / Dressing P/P - 4'

4	Hinge (heavy weight)	T4A3786 4 1/2" x 4 1/2"	US26D MK

1 Push Plate	70E	US32D	RO
1 Pull Plate	111x70C	US32D	RO
1 Door Closer	TB 351 O / PS as req	EN	SA
1 Door Stop	481	US26D	RO
1 Perimeter Seal	S88BL		PE

Set: 39.0
Doors: 7131B, A2105
Description: Locker - Closer - DB

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Public Toilet Deadlock	72 4878	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Push Plate	70E	US32D	RO
1 Pull Plate	111x70C	US32D	RO
1 Door Closer	TB 351 O / PS as req	EN	SA
1 Perimeter Seal	S88BL		PE

Set: 40.0
Doors: 1169, 1171, 2105A, 2105B
Description: Staff Restroom - Inswing

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Storeroom Deadbolt Lock	50 72 8251 LNJ	US26D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Door Closer	TB 351 O	EN	SA
1 Door Stop	481	US26D	RO
1 Perimeter Seal	S88BL		PE

Set: 41.0
Doors: 3157A, 3157B, 3177A, 3177B, 3257A, 3257B, 3277A, 3277B, 6111A, 7123, 7124
Description: Int Restroom / Admin area

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Privacy Set w/ Indicator	49 8265 LNJ	US26D	SA
1 Door Closer	TB 351 O / PS as req	EN	SA
1 Door Stop	481	US26D	RO
1 Perimeter Seal	S88BL		PE

Set: 42.0
Doors: 1165A, 1163A
Description: Class Restroom

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Privacy Set w/ Indicator	49 8265 LNJ	US26D	SA
1 Door Stop	481	US26D	RO
1 Perimeter Seal			

Set: 44.0
Doors: 1219B, 1219C, 1220B, 1220C, 7125, 7144, 7153, 7154

Description: Practice- Sound Seals

3 Hinge, Full Mortise	TA2714 4 1/2" x 4 1/2"	US26D	MK
1 Passage Set	8215 LNJ	US26D	SA
1 Door Stop	481	US26D	RO
2 Seal @ Jambs	350CSR		PE
1 Seal @ Head	2891APK		PE
1 Mortised Auto Door Bottom	420APKL		PE

Set: 44.1
Doors: 7243, 7244, 7245, 7248
Description: Practice- STC

3 Hinges	By the STC Door Manufacturer		OT
1 Passage Set	8215 LNJ	US26D	SA
1 Door Stop	481	US26D	RO
1 Gasket, threshold, door bottom	By the STC Door Manufacturer		OT

Notes: At existing doors and frames, verify all existing conditions and modify hardware as required prior to purchase.

Set: 46.0
Doors: G01
Description: *Gate - Panic

1 Hinges	By the door manufacturer		OT
1 Exit Device - SPAR#NCE35	WH CPC TB 43 72 8804	US32D	SA
1 Vandal Resistant Trim	826	US32D	SA
1 Small Format Inter Core	7P-7300B	US15	SA
1 Balance hardware	by the door manufacturer		OT

Notes: Power and wiring is by others.

END OF SECTION 08 71 00

SECTION 10 14 00 - GRAPHICS

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. Panel signs.
   2. Room identification signs.
   3. Field applied, vinyl character signs.
   4. Cast character for exterior signage.
   5. Handicap parking signs.
   6. Accessories necessary for a complete installation.

1.3 SUBMITTALS

A. Product Data: Technical data for each type of signage.

B. Signage Shop Drawings: Submit fabrication and installation details and attachments to other Work.
   1. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
   2. Show message list, typestyles, graphic elements, including raised characters and Braille, and layout for each sign at least half size.

~~C. Dedication Plaque Shop Drawings: Submit fabrication and installation details and attachments to other Work.~~
   ~~1. Indicating materials, sizes, and finishes, details of fabrication and installation, fasteners and hardware, attachments, related and adjacent Work.~~
   ~~2. Rubbing of actual pattern of cast metal plaque for Architect's approval prior to casting.~~

D. Certifications: Submit letter of certification from manufacturer that installer and manufacturer is in compliance and meets specified requirements.

E. Samples:
   1. One (1) 6 inch x 6 inch sample of cast metal plaque material with specified finish.
   2. One (1) 4 inch actual sample of cast metal letter in specified letter style and finish.
   3. One (1) actual sample of each type room identification sign with specified finish.

1.4 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. Building Code/City Code: Comply with building code and local ordinances for exterior signage.
   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) 2010.
      b. ICC/ANSI A117.1 Accessible and Useable Building and Facilities.
      c. Texas Accessibility Standards (TAS) 2012.

B. Installer Qualifications: Installer has minimum 5 Years documented experience in the manufacture of signage and who employs installers and supervisors trained and approved in installation methods for each type of signage.

C. Thermal Movements: For exterior fabricated channel dimensional characters, allow for thermal movements from ambient and surface temperature changes.
   1. Temperature Change: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), material surfaces.

1.5 FIELD CONDITIONS

A. Field Measurements: Verify locations of anchorage devices and electrical service embedded in permanent construction by other installers by field measurements before fabrication, and indicate measurements on Shop Drawings.

1.6 WARRANTY

A. Written warranty signed by manufacturer in which manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Deterioration of finishes beyond normal weathering.
      b. Deterioration of embedded graphic image.
      c. Separation or delamination of sheet materials and components.

   2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Basis of Design Manufacturer: South Texas Graphics; (713) 467-4499. Other manufacturers shall have a minimum of five (5) years experience manufacturing products meeting or exceeding those specified and shall comply with Division 1 requirements for substitutions in order to be considered.
   1. A.R.K. Ramos Architectural Signage Systems; (405) 235-5505.
   2. InPro Corporation (IPC); (800) 222-5566.
   3. ProWorx Architectural Signage; (713) 666-3131.
   4. Riot Creative Imaging; (713) 988-9200.
   5. Stanley Signature Signs; (281) 395-6106.
   6. The Southwell Co.; (210) 223-1831.
   7. Aria Signs; (713) 259-3737.

B. Aluminum Castings: ASTM B 26/B 26M, alloy and temper recommended by sign manufacturer for casting process used and for type of use and finish indicated.

C. Aluminum Sheet and Plate: ASTM B 209 (ASTM B 209M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.

D. Aluminum Extrusions: ASTM B 221 (ASTM B 221M), alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated.

E. Acrylic Sheet: ASTM D 4802, category standard with manufacturer for each sign, Type UVF (UV filtering).

F. Plastic Laminate Sheet: NEMA LD 3, general purpose HGS grade, 0.048-inch (1.2-mm) nominal thickness.

G. Vinyl Film: UV resistant vinyl film of nominal thickness indicated, with pressure sensitive, permanent adhesive on back; die cut to form characters or images indicated and suitable for exterior applications.

H. Paints and Coatings for Sheet Materials: Inks, dyes, and paints that are recommended by manufacturer for optimum adherence to surface and are UV and water resistant for colors and exposure indicated.

I. Accessories:
   1. Fasteners and Anchors: As necessary for secure anchorage of signage, noncorrosive and compatible with each material joined, and complying with the following:
      a. Use concealed fasteners and anchors unless indicated to be exposed.
      b. Exposed Metal Fastener Components: Fabricated from same basic metal and finish of fastened metal unless otherwise indicated.

   2. Sign Mounting Fasteners:
      a. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back of sign material or screwed into back of sign assembly, unless otherwise indicated.

   3. Adhesive: Recommended by sign manufacturer.
   4. Two Face Tape: High bond, foam core tape, 0.045 inch (1.14 mm) thick, with adhesive on both sides.
   5. Bituminous Paint: Cold applied asphalt emulsion complying with ASTM D 1187.

2.2 SIGNAGE

A. General:
   1. Constructed of one (1) or two (2) high pressure laminate in colors selected by Architect, laminated to an 1/8” inch thick acrylic backer.
   2. Signage shall have radius or square corners with square cut edges painted a color as selected by Architect / Owner.
   3. Demarcation lines, if any, can be raised 1/32” inch to match copy or engraved and infilled with a color as selected by Architect / Owner.
   4. Signs shall comply with all state and federal codes, including but not limited to, the 2012 ADA and TAS requirements.
   5. Refer to drawings for details of types, dimensions, colors, graphic layouts and mounting/height specifications.

B. Room Numbers, Symbols, Lower or Secondary Copy, and Pictograms:
   1. Copy shall be matte finished acrylic, raised /32” inch of a color contrasting to the face laminate.
   2. Characters and pictograms shall be chemically welded to the acrylic backing, through the face laminate, to assure permanent adhesion.
   3. Room numbers and restroom copy shall be copy shall be accompanied by Grade II Braille by means of ‘VisiTouch DuraDot System’. Glass or metallic ‘DuraDots’ shall have .059 inch surface diameter with body of sphere pressure secured below face laminate. Routed boxes or glued on dots are not acceptable.
   4. Secondary copy shall be a minimum of 5/8” inch high, matte finished acrylic, raised 1/32” inch san serif font.
   5. Acceptable ADA compliant fonts are Arial, Helvetica, Optima, Futura as selected by Architect, in all caps.

C. Restroom Pictograms:
   1. Pictograms shall appear on a minimum 6” inch, unobstructed square.

D. Window (Slotted) Signs:

1. Window / Slotted signs shall be open at both ends for changeable insert provided by Owner. Window shall be a non-glare Lexan acrylic lens, with an exposed color laminate behind in color as selected by Architect/Owner.

E. Fasteners and Accessories:
1. 1/8" inch thick, double-sided foam tape of type recommended to suite application and commercial grade silicone sealant.
2. Back-up plates shall be supplied, when shown or required, for signage mounted on glass.

F. Provide all materials required for a complete installation.

G. Approved manufacturers:
1. Signage:
a. Basis of Design: South Texas Graphic Specialties, Inc. Houston, TX 713.467.4499.
b. Refer to 2.1.A. of Section 10 14 00 for approved manufacturers.

2. Plastic Laminate:
a. WilsonArt International, Temple, TX 800.433.3222
b. Nevamar Company, LLC, Shelton, CT 877.726.6526
c. Formica, 1.800.367.6422
d. Pionite, Shelton, CT 203.925.1556

H. Cast Characters: Characters with uniform faces, sharp corners, and precisely formed lines and profiles:
1. Character Material: Cast aluminum.
2. Character Height: Indicated on Drawings.
3. Finishes:
a. Baked Enamel or Powder Coat Finish: Color to match school colors and logo.
b. Overcoat: Baked on clear coating.

4. Mounting: Concealed studs.
5. Typeface: Selected by Architect.

I. Field Applied, Vinyl Character Sign: Prespaced characters die cut from 3 mil to 3.5 mil (0.076 mm to 0.089 mm) thick, weather resistant vinyl film with release liner on the back and carrier film on the front for on site alignment and application.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. Allen Markings.
b. APCO Graphics, Inc.
c. Mohawk Sign Systems.
d. Seton Identification Products.

2. Size: Indicated on Drawings.
3. Substrate: Indicated on Drawings.

J. Handicap Signs:
1. Signage Materials: 0.080 inch thick aluminum or galvanized steel sign with 1-1/2 inch silk screen upper case letters, copy and border. Signs shall have 1-1/2 inch radius at corners typically. Sizes shall be as shown on drawings or required by authorities having jurisdiction.
2. Post Materials: Provided by Section 05 50 00, Metal Fabrications.
3. Graphics:

a. Accessibility (“Handicapped Parking”) signs with lettering and graphics as detailed. All Work shall comply with local codes, ADA, and TAS standards ands requirements.

4. Accessories:
   a. Sign Mounting Hardware: Provide sign mounting hardware of galvanized steel of type and size instructed by manufacturer to suit intended use.
   b. Provide concrete footings of 3,000 psi compressive strength at 28 days, unless noted or directed otherwise.
   c. Provide all materials required for signage and proper installation.

K. Illegally Parking Signs in Accessible Spaces:
1. Sign for Illegally parking in a paved accessible parking space.
2. Minimum state “Violaters Subject to Fine and Towing” in a letter height of at least one inch.
3. Mounted on a pole, post, wall or freestanding board as shown on the Drawings.
4. No more than eight (8) inches below a sign required by ADA and TAS standards.
5. Installed so bottom edge of sign is no lower than 48 inches and no higher than 80 inches above ground level.

L. Door Vinyl Numbers:
1. Composition: 11 inch x 13 inch white background with 8 inch black reflective numbering located on the transom above and outside door.
2. Material: Vinyl.
3. Font: Arial.
4. Sequence: Start at main entry working clockwise. The Main Entry is door number 1, then next clockwise is 2, and so on.
5. Locations: At multiple doors, add ~~one~~ TWO door sign and number in the vicinity. Do not number doors that cannot access the rest of the building.

M. Driveway Entrance Paint and Signs:
1. Composition: Entry drives are 24 inches diameter blue with 20 inches white number with striping paint, start with main entrance and work clockwise Each driveway needs to also have a sign, the size of a speed limit sign, with entry number matching the concrete drive number and below the driveway number the cardinal direction of that driveway, i.e. N for North drive, SE for Southeast drive, etc. The driveways signs will be galvanized steel with 3M™ Diamond Grade™ DG³ Reflective Sign Sheeting or comparable product with black number and letter and white background, similar to speed limit sign. The sign to be 12”W and 24”H. The letters on the sign to be 10” High and the number to be 10” High.
2. Font: Arial.
3. Location: Each driveway entrance numbered with paint on the concrete entrance. Refer to Section 09 90 00.

2.3 FABRICATION

A. Provide sign assemblies according to requirements indicated.
1. Preassemble signs and assemblies in the shop to greatest extent possible. Disassemble signs and assemblies as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation; apply markings in locations concealed from view after final assembly.
2. Mill joints to a tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
3. Comply with AWS for recommended practices in welding and brazing. Provide welds and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed connections of flux, and dress exposed and contact surfaces.
4. Conceal connections if possible; otherwise, locate connections where they are inconspicuous.
5. Internally brace signs for stability and for securing fasteners.

6. Provide rebates, lugs, and brackets necessary to assemble components and to attach to existing Work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match sign finish.
7. Castings: Fabricate castings free of warp, cracks, blowholes, pits, scale, sand holes, and other defects that impair appearance or strength. Grind, wire brush, sandblast, and buff castings to remove seams, gate marks, casting flash, and other casting marks before finishing.

B. Brackets: Fabricate brackets, fittings, and hardware for bracket mounted signs to suit sign construction and mounting conditions indicated. Modify brackets as necessary.
1. Aluminum Brackets: Factory finish brackets with baked enamel or powder coat finish to match sign background color color unless otherwise indicated.

2.4 FINISH REQUIREMENTS

A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

C. Directional Finishes: Run grain with long dimension of each piece and perpendicular to long dimension of finished trim or border surface unless otherwise indicated.

D. Organic, Anodic, and Chemically Produced Finishes: Apply to formed metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.

E. Aluminum Finishes:
1. Clear Anodic Finish: AAMA 611, Class I, 0.018 mm or thicker.
2. Baked Enamel or Powder Coat Finish: AAMA 2603 except with a minimum dry film thickness of 1.5 mils (0.04 mm). Comply with coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions for compliance with requirements for installation tolerances and other conditions affecting performance of signage Work. Verify sign support surfaces are within tolerances to accommodate signs without gaps or irregularities between backs of signs and support surfaces unless otherwise indicated.

B. Proceed with installation after correcting unsatisfactory conditions.

3.2 INSTALLATION

A. Install signs using mounting methods indicated and according to manufacturer's written instructions.
1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
2. Install signs so they do not protrude or obstruct according to the accessibility standard.
3. Interior Wall Signs: Install signs on walls adjacent to latch side of door where applicable. Where not indicated or possible, such as double doors, install signs on nearest adjacent

walls. Locate to allow approach within 3 inches (75 mm) of sign without encountering protruding objects or standing within swing of door.
a. Comply with all applicable accessibility requirements for mounting height and location of each sign.

4. Before installation, verify sign surfaces are clean and free of materials or debris that impair installation.
5. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

B. Mounting Methods:
1. Concealed Studs: Using a template, drill holes in substrate aligning with studs on back of sign. Remove loose debris from hole and substrate surface.
a. Masonry Substrates: Fill holes with adhesive. Leave recess space in hole for displaced adhesive. Place sign in position and push until flush to surface, embedding studs in holes. Temporarily support sign in position until adhesive fully sets.
b. Thin or Hollow Surfaces: Place sign in position and flush to surface, install washers and nuts on studs projecting through opposite side of surface, and tighten.

2. Brackets: Remove loose debris from substrate surface and install backbar or bracket supports in position so that signage is correctly located and aligned.
3. Shim Plate Mounting: Provide 1/8 inch (3 mm) thick, concealed aluminum shim plates with predrilled and countersunk holes, at locations indicated, and where other direct mounting methods are impractical. Attach plate with fasteners and anchors suitable for secure attachment to substrate. Attach signs to plate using method specified above.

C. Field Applied, Vinyl Character Signs: Clean and dry substrate. Align sign characters in final position before removing release liner. Remove release liner in stages, and apply and firmly press characters into final position. Press from the middle outward to obtain good bond without blisters or fishmouths. Remove carrier film without disturbing applied vinyl film.

D. Signs Mounted on Glass: Provide opaque sheet matching sign material and finish onto opposite side of glass to conceal back of sign.

3.3 ADJUSTING AND CLEANING

A. Remove and replace damaged or deformed signs and signs that do not comply with specified requirements. Replace signs with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.

B. Remove temporary protective coverings and strippable films as signs are installed.

C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION 10 14 00

SECTION 10 51 13 - METAL LOCKERS AND BENCHES

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. Welded corridor lockers.
   2. Wooden Locker room benches.
   3. Accessories necessary for a complete installation.

1.3 SUBMITTALS

B. Product Data:
   1. Manufacturer's schedules, charts, literature, and illustrations to indicate the performance, fabrication procedures, product variations, and accessories.
   2. Manufacturer's installation instructions.

C. Shop Drawings: Indicate size, material, and finish. Show location and installation procedures. Include details of joints, attachments and clearances.

D. Locker/Lock Schedule: Schedule indicating locker number, serial number of the lock installed, key number, or combinations as applicable, for each locker. Submit schedule in spread sheet format. Submit three hard copies and one electronic file.

E. Sample: Provide half size locker samples to Architect for approval showing all fasteners and door types for locks.

1.4 QUALITY ASSURANCE

A. Regulatory Requirements:
   1. 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) 2010.
      b. ICC/ANSI A117.1 Accessible and Useable Building and Facilities.
      c. Texas Accessibility Standards (TAS) 2012.

B. Source Limitations: Obtain metal lockers and accessories from single source from single locker manufacturer.
   1. Obtain locks from single lock manufacturer.

C. Preinstallation Conference: Conduct conference at site.

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 or workmanship.

B. Defects shall include, but not be limited to, the following:
   1. Rapid deterioration of finish.
   2. Loose or missing parts.
   3. Non-functioning components and mechanisms.
   4. Rust, delamination, warp, rot or breakage.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. ASI Storage Solutions, Inc., Memphis, TN (901) 312-6195
   2. DeBourgh Manufacturing Co., LaJunta, CO; (800) 328-8829
   3. Lockers MFG, Batesville, MS; (662) 338-4340.
   4. Superior Lockers as manufactured by List Industries, Inc. Deerfield Beach, FL; (800) 776-1342.
   5. Penco Products, Inc., Oaks, PA; (800) 562-1000
   6. Republic Storage Systems Co., Inc., Canton, OH; (800) 477-1255.
   7. WEC Manufacturing, Germantown, TN; (901) 367-3923.

B. Locker: All welded construction; ~~double tier~~:
   1. Material: Prime, high grade Class l mild annealed, cold-rolled steel.
   2. General Construction: Pre-assembled, welded seams and joints. Bolts, screws or rivets used in the assembly of the locker bodies are not permitted. Welds shall be free of burrs.
   3. Body: 16 gauge, flanged.
   4. Backs: 18 gauge, one-piece
   5. Door Frame: 16 gauge, channels or angles, with continuous door strike. Multiple tiered assemblies shall have intermediate cross frame welded to vertical framing members.
   6. Door: 14 gauge formed door constructed of single piece cold rolled steel with staggered 7/16 inch wide by 15/16 inch diamond perforations. Full channel shaped on lock side, formed channel formation on hinge side, right angle shaped on horizontal sides.
   7. Hinges: Two (2) inches high minimum, five (5) knuckle, full loop, tight pin. Weld to door and frame. Two (2) per door for lockers 42 inches high or less; three (3) per door for lockers over 42 inches high.
   8. Latching: one-piece, pre-lubricated spring steel, completely contained within the lock bar under tension to provide rattle-free operation. Provide three (3) latching points for lockers over 42 inches in height and two (2) latching points on for all tiered lockers 42 inches and under in height.
   9. Pre-Locking Device: Lockers shall be equipped with a positive automatic pre-locking device whereby the locker may be locked while the door is open and then closed without unlocking and without damaging the locking mechanism.
   10. Handles: Recessed, stainless steel with non-protruding lifting trigger.
   11. Number Plates: Aluminum with etched figures at least 3/8 inches high, attached near top of door with two (2) aluminum rivets. Number plates shall be in order as directed by the Architect.
   12. Finish: Baked enamel. Colors shall be as selected by Architect from manufacturer's standard colors. Lockers shall be painted inside and outside with the same color.
   13. Fasteners/Anchors: Provide fasteners and anchors of type, size and finish as recommended by manufacturer for attaching or anchoring lockers to walls and floor.
   14. Free-Standing Lockers: Provide front and end closed bases.
   15. Base: Lockers shall rest on bases as detailed on drawings.
   16. Locks: Master Lock Built-In Combination Locks with five (5) Master / Control keys and metal dial. Furnish locker/lock schedule as specified in Paragraph 1.2, D above.
   17. Top Closures, Closure Strips, and Fillers: Provide where shown, factory fabricated and finished to match lockers, unless noted otherwise.

C. Accessible Locker: Accessible lockers with recessed handles, single tier or the lower opening of double tier locker. Locker bottom shall be a minimum of 15 inches off the floor, or an extra shelf placed 15 inches off the floor with bottom or shelf turned down to close resultant opening.

2.3 LOCKER TYPES

A. Type “A” Athletic Lockers: 15 inches W by 15 inches D by 72 inches H. Welded athletic lockers, double tier with a sloped top and four (4) inch high CMU base. Colors shall be as selected by Architect from manufacturer’s standard colors.

B. Type “B” Athletic Lockers: 18 inches W by 18 inches D by 72 inches H. Welded athletic lockers, single tier with a sloped top and four (4) inch high CMU base. Colors shall be as selected by Architect from manufacturer’s standard colors.

C. Type “C” ~~Athletic~~ Theater Lockers: ~~1 foot 6 inches by 1 foot inches~~.12 inches W by 18 inches D by 60 inches H. Welded theater locker, single tier ~~Deluxe Collegiate Lockers without doors and with combination lock with~~ and four (4) inch high CMU base. Colors shall be as selected by Architect from manufacturer’s standard colors.

2.4 LOCKER ROOM BENCHES

A. Benches:
1. Bench Material: Shall be laminated hardwood maple.
2. Size: Shall be 9-1/2 inches deep x 1-1/4 inch thick x lengths as shown on drawings.
3. Finish: Manufacturer's two (2) coat clear acrylic finish.

B. Pedestals:
1. Manufacturer’s heavy-duty cast iron pedestal supports not more than 6 feet-0 inches o.c., with provisions for attaching pedestals to bottom of bench and anchoring pedestals to floor.
2. Height: 17-3/4 inches. 17-1/2 inches to meet ADA requirements.
3. Finish: Manufacturer's baked enamel finish in selected color by Architect to match lockers, unless noted otherwise.

C. Anchorages: Provide screw fasteners for attaching each pedestal to bottom of bench and two (2) suitable anchors per pedestal for anchoring pedestals to floor.

2.5 OTHER MATERIALS:

A. Provide other materials, not specifically described but required for a complete and proper locker installation.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Assemble and install lockers plumb, level, and flush in the locations shown on the drawings in accordance with the manufacturer’s instructions. Lockers shall have no sharp metal edges.

B. Install and anchor lockers to the floor and wall as instructed by the manufacturer.

C. Install sloping hoods, metal fillers, end panels and trim to close openings, and accessories where shown on drawings or required to complete installation. Install using concealed fasteners. Provide flush hairline joints against adjacent surfaces.

D. Ensure number plates are installed in order directed by the Architect.

3.2 ADJUST AND CLEAN

A. Adjust doors and latches to operate without binding and positive latching and automatic locking.

B. Touch up marred finishes on lockers with manufacturer's supplied paint.

END OF SECTION 10 51 13

SECTION 12 66 13 - TELESCOPING BLEACHERS

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 WORK INCLUDED

A. Manufacture, deliver and install Telescopic Seating Systems in accordance with applicable codes, the following specifications, and approved drawings.

1.2 RELATED WORK BY OTHERS

A. Adequate floor levelness and strength for operation of telescopic seating.

B. Adequate wall strength for attachment and operation of wall attached telescopic seating.

C. Electrical wiring within the building as required for power operated telescopic seating.

D. Scoreboard controller connections and microphone jacks mounted in first step of bleacher riser boards.

1.3 SYSTEM DESCRIPTION

A. Telescopic seating system shall be multiple tiered seating rows comprised of seat and deck components, risers, and supportive understructure.

B. Telescopic seating shall be operable on the telescopic principle, stacking vertically in minimum floor area when not in use.

C. The first moving row, on manual sections, shall be secured with release lever. All other rows shall be mechanically locked, operable only upon unlocking and cycling of first row. Power sections shall be secured with mechanical locks as well as the power system, operable upon activating the pendant control.

1.4 QUALITY ASSURANCE

A. Design Load Criteria (Structural): International Building Code Standard: Comply with requirements of IBC / ICC 300, Chapter 4 "Standard for Bleachers, Folding and Telescopic Seating and Grandstands Assembly Seating," except where other requirements are indicated by the architect/owner.

B. Partial Loading Requirements: Telescopic seating governed by IBC 2018, ICC-300 2017, NFPA 102 2016 or NFPA 5000 2018 shall all comply with ASCE 2016, Section 4.3.3 Partial Loading.

C. Texas Accessibility Standards (TAS).

D. Manufacturer: Company specializing in telescopic seating with a minimum of 25 years' experience in manufacturing telescopic seating.

E. Engineer Qualifications: Manufacturer to employ a registered, licensed Professional Engineer to certify that the equipment to be supplied meets or exceeds the design criteria of this specification.

F. Installation: Shall be handled directly by the manufacturer or by a factory certified installation subcontractor.

G. Product Liability: Certification of insurance coverage of not less than $5,000,000.

H. Welding Processes: To be performed by certified professional welding operators in accordance with American Welding Society – Certified Welding Fabricator, (AWS-CWF), D1,1 "Structural Welding Code-Steel."

I. Product Improvements: Equipment provided shall incorporate manufacturer's design improvements and materials current at time of shipment, provided that such improvements and materials are consistent with the intent of these specifications.

1.5 SUBMITTALS

A. Bid Submittals

1. Manufacturer's descriptive literature and specifications.
2. List of deviations from these specifications, if any.
3. Certification of Insurance.

B. Job Submittals

1. Shop Drawings showing all equipment to be furnished with details of accessories to be supplied including necessary electrical service to be provided by others. All electrical submittals must include U.L. listing number.
2. Samples of material and color finish as requested by Architect.
   a. Submit two (2) 18 inch long samples of seat boards.
3. Warranty, operation and maintenance instructions to the owner upon completion.

1.6 DESIGN CRITERIA

A. Telescopic seating shall be designed to support, in addition to its own weight, and the weight of added accessories, a uniformly distributed live load of not less than 100 lbs. per sq. ft. (4.8 kN per sq. m.) of gross horizontal projection. Seat boards and footrest shall be designed for a live load of not less than 120 lbs. per linear foot (1.751 kN per linear m).

B. Sway force applied to seats shall be 24 lbs. per linear ft. (350 N per linear m.) parallel to the seats and 10 lbs. per linear ft. (146 N per linear m.) perpendicular to the seats. Sway forces shall not be considered simultaneously applied.

C. Railings, posts and sockets designed to withstand the following forces applied separately.

D. Handrails shall be designed and constructed for:

1. A concentrated load of 200 lbs. (890 N) applied at any point and in any direction.
2. A uniform load of 50 lbs. per ft. (730 N/m) applied in any direction.

   The concentrated and uniform loading conditions shall not be required to be applied simultaneously.

E. Guards shall be designed and constructed for:

1. A concentrated load of 200 lbs. (890 N/m) applied at any point and in any direction along the top railing member and; a uniform load of 50 lbs. per ft. (730 N/m) applied horizontally at the required guardrail height and simultaneous uniform load of 100 lbs. per ft. (1460 N/m) applied vertically downward at the top of the guardrail. The concentrated and uniform loading conditions shall not be required to be applied simultaneously.

F. American Institute of Steel Construction (AISC), American Iron and Steel Institute (AISI) and Aluminum Association (AA) design criteria shall be the basis for calculation of member sizes and connections.

G. Wood members shall be designed in accordance with National Forest Products Association, (NFOPA), and National Design Specification for Wood Construction.

1.7 WARRANTY

A. The manufacturer shall warrant all work performed under these specifications to be free of defects for a period of one year.

B. All understructure components shall be warranted for a period of ten years.

C. Any materials found to be defective within this period will be replaced at no cost to the owner. This warranty shall not include replacements required by Acts of God, war, vandalism, flood, fire, calamity or deliberate abuse or misuse of the equipment.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. Basis of Design: VersaTract Telescopic Seating System as manufactured by Irwin Seating Company - Telescopic Division, Altamont, IL 62411 or equal, subject to prior approval and strict compliance with these specifications. Other manufacturers must have a minimum of five (5) years experience manufacturing equivalent products to those specified and comply with Division 1 requirements regarding substitutions to be considered.

1. Hussey Seating Co., North Berwick, ME; (207) 676-2271.
2. Folding Bleacher Co., Subsidiary of Irwin Seating Company, Altamont, IL; (618) 483-6157
3. Interkal, Inc., Kalamazoo, MI; (616) 349-1521

2.2 MATERIALS

A. Seating Area: 1 Group, 91 Feet 6 Inches Long, 4 Rows High, Wall Attached, Electrically Operated.

B. Dimensions:

1. Overall height: 3 Feet 4 Inches
2. Open depth: 7 Feet 7-1/8 Inches
3. Closed depth: 3 Feet 7-1/8 Inches
4. Row Spacing: 24 Inches
5. Rise per row: 10 Inches

2.3 FABRICATION

A. Understructure System:

1. Steel supports and rolling frames shall be constructed from formed steel of the size and shape necessary to support the design loads. All support bracing shall begin at Row 2 and be of diagonal or "knee" type for rigidity. Diagonal bracing to be minimum 1 1/2” x 1 1/2" 14-gauge square tubing. Bracing fabricated from open-sided channel, angle iron or flat strap "X" type bracing is unacceptable.
2. Wheels shall not be less than 5" diameter x 1 3/8" non-marring soft rubber face to protect wood or synthetic floor surfaces. Each operating row shall have a minimum of 6 wheels.
3. Each fully skirted wheel channel shall be formed 12-gauge steel and continuously in contact with adjacent channels by means of an Integral Alignment System (IAS) and include nylon glides to eliminate any metal to metal contact. The IAS maintains proper alignment between adjacent wheel channels for smooth and consistent operation while eliminating the potential for accidental row separation. Wheel channel alignment systems with metal to metal contact requiring periodic lubrication or that utilizes a guide rod system that can be bent or damaged will not be acceptable.
4. Each cantilever arm shall be triple-formed 10-gauge steel, securely welded to the post assembly and include a nylon cantilever pad to ensure smooth operation. The cantilever pad shall also provide a firm base when in the occupied position and provide a solid feel when walked on.

5. Vertical columns shall be high tensile steel structural tube to meet design criteria. Minimum column size to be 2” x 3” 14-gauge structural tube, welded to a 2’ wide wheel channel using 360 degrees of weldment.
6. Deck support members shall be double formed 14-gauge steel and connect the front nosing and rear riser members. Each deck support shall include a unique dual-purpose roller that provides smooth support during operation. The deck support roller shall also include a 3/4” wide shoulder that’s encapsulated by the deck support on the row above in order to maintain proper upper alignment while delivering consistent, repeatable operation.

B. Seat Systems:

1. Infinity Seat: Supply plastic modular 18” individual seats in 10” deep models. Seating to be scuff resistant injection molded high density polyethylene plastic.
    a. Seat modules supplied shall be of a high aesthetic design using multiple textures, style lines and a waterfall front. The rear of the seat shall be slightly curved to eliminate the straight line appearance and include a moderate seat contour and texture to enhance spectator comfort.
    b. Seating design shall be molded to achieve a finished end appearance without the use of end caps. The rear of the seat shall include a smooth wall allowing for the deck to be easily swept clean without obstruction.
    c. Seat heights shall be maintained at a minimum of 16 3/4". Lower seat heights which detour from spectator comfort will not be accepted.
    d. Foot space shall be maximized for spectator comfort and provide a minimum of 22” when measured with a 10” module and 21” with a 12” module.
    e. Each seat to be designed with the capability of using seat numbers and row letters at the aisle locations. Seat numbers to be stylishly designed using a radius corner to enhance the aesthetic value of the seat. Seat numbers and row letters shall be recessed into the seat to protect against any vandalism.
    f. Select seating colors from manufacturer’s 15 standard colors. Custom colors available as an option.
    g. Securely fasten each seat to the nose beam using a 10-gauge formed steel bracket and locking hardware. Adjacent seating shall be interlocked together along the full perimeter eliminating any fore or aft movement or the potential of any pinching hazard.
    h. Seat modules shall be designed to support a uniform load of 600 lbs per seat and a concentrated load of 150 lbs over 4 square inches.

C. Deck System:

1. Clear Coat decking shall be finished using a two-pass UV topcoat process for maximum appearance and durability. Each of the two finishing cycles shall consist of a pass through the clear polyurethane roller coating, followed by a UV activation process permanently setting the finish. Each plywood panel shall be constructed from AC grade 5-ply western fir plywood with a high quality Radiata Pine face ply in strict compliance with U.S. Product Standard PS 195. Plywood shall be supported along the front and back edge for maximum rigidity and designed in a manner that allows 3 plies to run front to back for increased deck strength. Each plywood panel shall be connected using a tongue and groove splice leaving the deck clean and free of any tripping or cleaning obstructions. Plywood using a single coat of finish or applied without the UV setting process that will show wear faster is unacceptable. Decking shall be secured in place by the encapsulation of the rear riser and mechanical fasteners along the front edge. Finish thickness to be 5/8”.

D. Nosing:

1. Nosing shall be one piece, formed, 14-gauge steel with a minimum G-60 pre-galvanized finish.

E. Rear Risers:

1. Rear riser shall be one piece, formed, 14-gauge steel with a minimum G-60 pre-galvanized finish.

F. Finish: For rust resistance in standard conditions all painted surfaces shall be finished in textured Epoxy Powder Coated Semi-Gloss Black.

2.4 ACCESSORIES

A. Aisles shall be footrest level 48 inches wide to provide 3 aisles. Aisles at the footrest level shall include non-slip treads on the top front edge.

B. Intermediate aisle steps shall be provided. Steps are permanently attached closed design. Steps shall be constructed from 14 ga. steel, finished in a Black powder coated epoxy, and designed to eliminate any possible toe catch between the top of the intermediate step and the bottom of the nose beam per ADA or other applicable codes. Front step shall be removable and interlock to the front row eliminating any possibility of accidental disengagement, and store on the front row when not in use.

C. Aisle handrails.

1. Smart Rail aisle handrails shall be provided for 22” to 26” row spacing. Aisle railings shall quickly and easily rotate 90 degrees to the locked position and store parallel to the front of the aisle. Railings that require removal from the pocket or the use of tools for storage will not be acceptable. Aisle railings shall be an individual rail design, located on every other row starting at row two (2). Railing to be constructed of 1 1/2” 11 ga. round steel tubing, finished in a textured powder coated epoxy. For safety, railings designed without a full return of the handrail will not be acceptable.

D. Wheel Chair Seating Areas.

1. Recoverable wheel chair spaces with recoverable rail shall be provided at the section joint location or section length as shown on plans. An integral support on row two shall be provided to eliminate structural damage to the understructure during the operation and use of the system. Recoverable seating areas do not require front railings for support.

E. End rails.

1. End rails of the self-storing type, finished with textured epoxy powder-coated black enamel, shall be provided at the open ends of the group. End rails shall start at row three and be constructed from 1” square tubing to meet all national building codes. Railings with flexible uprights that can be expanded beyond the 4” sphere are not acceptable.

F. End panels of plywood and supports shall be provided to enclose the open ends of the group in the closed position. End panels shall enclose the space between the wall and the back of the self-storing end rails. End panels to be constructed from Panelam or clear coat plywood.

G. Scorer’s table shall be 8’ long x 18” wide and feature a speckled grey blow molded top. Table to include cantilevered folding legs designed to fit within the seating row without the need for mounting sockets, or for use on the floor in front of the stand.

H. Seat level rear filler panels up to 21” deep used to close openings between top row seat and wall. Provide adequate support structure below the closure panel that will allow for spectators to safely stand in this area. Closure panel to match the deck surface.

N. Infinity Seat Spacer.

1. Infinity seat spacers shall be supplied as indicated on architectural drawings. Seat spacers to be 4 1/2” wide with a contoured shape matching that of the adjacent seat modules, and available in 15 matching or contrasting standard colors. Seat spacers to be constructed using the same material, design, durability and attachment method as the Infinity seat module.
2. Infinity seat spacers shall be supplied as indicated on architectural drawings. Seat spacers to be 6” wide with a contoured shape matching that of the adjacent seat modules, and available in 15 matching or contrasting standard colors. Seat spacers to be constructed using the same material, design, durability and attachment method as the Infinity seat module.

2.5 PROPULSION SYSTEM

A. Friction Power: Integra Drive System (IDS) shall be furnished on each seating group to open and close the telescopic units. Each individual section shall include 2 IDS friction drive systems integrated into the first moving row of understructure to achieve smooth and efficient operation. Operation of the seating shall be accomplished with the use of a walk along pendant control.

1. Each IDS power system shall include large 6 1/2" diameter friction rollers to develop tractive force adequate to open and close the system. Each roller to include non-marring 1/2" thick rubber covering.
2. Electrical motors for each section shall be heavy-duty and high efficiency gear reduction motors. The shaft diameter for the gear motor and rollers shall be a minimum of 1” and be connected by a 1” schedule 40 drive shaft.
3. All roller chain and sprockets used throughout the drive system shall be a minimum of #40 in size. Each drive unit shall be designed to include a safety shroud around the chain and sprocket for overall safety.
4. The power units shall develop tractive forces adequate to operate the seating units under normal conditions but inadequate to operate should significant obstacles be encountered.

B. Manufacturer shall provide all wiring from power source within bleacher seating including Key Switch control. Key Switch control shall be wall mounted with controls to open and close the system. Electrical contractor shall provide a 60 HZ power source (as specified below) to the Key Switch wall location. Amperage to be as specified by seating manufacturer depending on the number of power units required. For wall-attached installations, power source to terminate in a surface mounted junction box above floor. All electrical parts and wiring shall be installed in complete accord with the National Electric Code. U.L. Listing FHJU.E479554.

Supply power system with 208/230V, 5 wire 3-phase system.

PART 3 - EXECUTION

3.1 REVIEWS AND APPROVALS

A. Shop drawings shall be approved and job site field measurements taken prior to installation and telescopic gym seating shall be installed in conformance therewith.

3.2 SURFACE CONDITIONS

A. Examine the areas and conditions under which Work of this Section will be performed.

B. Verify flooring is level and rear wall is plumb within 1/8 inch in 8 feet-0 inches.

C. Bring discrepancies and unsatisfactory conditions to the attention of the Architect and do not proceed until such discrepancies and unsatisfactory conditions are corrected.

3.3 INSTALLATION

A. The installation of the telescopic gym seating will be handled directly by the manufacturer or by a factory authorized installation subcontractor qualified to perform the installation function.

3.3 PROTECTION

A. The manufacturer’s representative shall transmit instructions in both operation and maintenance to the owner.

B. Maintenance and operation of the telescopic gym seating shall be the responsibility of the owner or his duly authorized representative, and shall include the following:

1. During operation of the telescopic gym seating, the opening and closing shall be supervised by responsible personnel who will assure that the operation is in accordance with the manufacturer's instructions.
2. Only attachments specifically approved by the manufacturer for the specific installation shall be attached to the telescopic gym seating.
3. An annual inspection and required maintenance of all telescopic gym seating shall be performed to assure safe conditions. At least bi-annually, the inspection shall be performed by a Professional Engineer or factory service personnel.

END OF SECTION 12 66 13

SECTION 14 24 00 - HYDRAULIC ELEVATOR

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. Hydraulic passenger elevators.
   2. Equipment, machines, controls, systems and devices necessary for operation.
   3. Materials and accessories necessary to complete the elevator installation.

1.3 DEFINITIONS

A. Defective Elevator Work: Operation or control system failure, including excessive malfunctions; performances below specified ratings; excessive wear; unusual deterioration or aging of materials or finishes; unsafe conditions; need for excessive maintenance; abnormal noise or vibration; and similar unusual, unexpected, and unsatisfactory conditions.

B. Definitions in ASME A17.1/CSA B44 apply to work.

C. Service Elevator: A passenger elevator that is also used to carry freight.

1.4 SUBMITTALS

A. Product Data: Technical data including capacities, sizes, performances, operations, safety features, finishes, and similar information. Include product data for car enclosures; hoistway entrances; and operation, control, and signal systems.

B. Shop Drawings: Submit plans, elevations, sections, and large scale details indicating service at each landing; machine room layout; coordination with building structure; relationships with other construction; and locations of equipment.
   1. Include large scale layout of car control station.
   2. Indicate maximum dynamic and static loads imposed on building structure at points of support as well as maximum and average power demands.

C. Manufacturer Certificates: Signed by elevator manufacturer, certifying that hoistway, pit, and machine room layout and dimensions, shown on Drawings, and electrical service, shown and specified, are adequate for elevator system being provided.

D. Submittals:
   1. Inspection and Acceptance Certificates and Operating Permits: As required by authorities having jurisdiction for normal, unrestricted elevator use.
   2. Set of service tools.
   3. Provide one electronic copy and two hard copies of manuals and inspection reports. Provide two complete printed sets of service, parts, schematic diagrams and adjustment manuals. Prints required by state code for each elevator.
   4. Provide four copies of independent service keys. Provide 4 factory cut keys for every lock on each elevator and label use. Provide two extra copies of the independent service key for a total of 6 keys.

5. Final inspection by the state inspector shall have a School District representative present to observe. Complete the final documentation for the State Inspection and return to the School District Maintenance Department.
    a. The Owner shall apply for the operation/inspection certificate provided by the State Inspector. Cost of the state inspection shall be paid by the elevator subcontractor/ manufacturer.

E. Operation and Maintenance Data: Submit for elevators to include in emergency, operation, and maintenance manuals and parts list, with recommended parts inventory.

F. Inspection and Acceptance Certificates and Operating Permits: Required by authorities having jurisdiction for normal, unrestricted elevator use.

G. Continuing Maintenance Proposal: Submit a continuing maintenance proposal from Installer to Owner, in the form of a two year maintenance agreement, starting on date initial maintenance service is concluded. State services, obligations, conditions, and terms for agreement period and for future renewal options. Maintenance agreement includes but is not limited to:
1. Systematic examination, adjustment, and lubrication of all elevator equipment.
2. Repair or replacement of electrical and mechanical parts of the elevator installation as required, using only the genuine standard parts approved for the original installation.
3. Maintenance work as required during regular working hours and regular working days, but with emergency callback service available at all times during this maintenance period.

1.5 QUALITY ASSURANCE

A. Regulatory Requirements:
1. Building Code: Comply with applicable provisions of the IBC and the Elevator Code.
2. Elevator Standard: Comply with ASME A17.1/CSA B44.
3. Fire Rated Hoistway Entrance Assemblies: Door and frame assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire protection ratings indicated, based on testing at as close to neutral pressure as possible according to NFPA 252 and IBC.
4. 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) 2010.
    b. ICC/ANSI A117.1 Accessible and Useable Building and Facilities.
    c. Texas Accessibility Standards (TAS) 2012.

B. Manufacturer/Installer Qualifications: Elevator manufacturer having minimum 10 years documented experience who is trained and approved by manufacturer, including but not limited to:
1. Manufacturer of the power unit, controller, signal fixtures, door operators cab, entrances, and other major parts of the elevator operating equipment.
2. Primary and major equipment components are manufactured in the United States and are not be an assembled system.
3. Documented, ongoing quality assurance program.

C. Source Limitations: Obtain elevators through one source from a single manufacturer.
1. Provide major elevator components, including pump and tank units, plunger-cylinder assemblies, controllers, signal fixtures, door operators, car frames, cabs, and entrances, manufactured by a single manufacturer.

D. Inspection and Testing: Elevator Installer shall obtain and pay for required inspections, tests, permits and fees for elevator installation.
1. Arrange for inspections and make required tests.
2. Deliver documentation to the Owner upon completion and acceptance of elevator work.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle materials, components and equipment in manufacturer protective packaging. Store materials, components, and equipment off of ground, under cover, and in a dry location.

1.7 COORDINATION

A. Coordinate dimensions with structure, walls, and adjacent features.

B. Coordinate installation of sleeves, block outs, elevator equipment with integral anchors, and other items embedded in concrete or masonry for elevator equipment. Furnish templates, sleeves, elevator equipment with integral anchors, and installation instructions and deliver to Project site in time for installation.

C. Furnish well casing and coordinate delivery with related excavation work.

D. Coordinate locations and dimensions of other work specified that relates to hydraulic elevators, including pit ladders; sumps and floor drains in pits; entrance subsills; electrical service; and electrical outlets, lights, and switches in hoistways, pits, and machine rooms.

1.8 WARRANTY

A. Written warranty signed by manufacturer in which manufacturer agrees to repair, restore, or replace elevator work that fails in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, operation or control system failure, including excessive malfunctions; performances below specified ratings; excessive wear; unusual deterioration or aging of materials or finishes; unsafe conditions; need for excessive maintenance; abnormal noise or vibration; and similar unusual, unexpected, and unsatisfactory conditions.
   2. Warranty Period: 2 year(s) from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Manufacturer: Hydrofit by Otis Elevator or equivalent product approved by Addendum prior to the date of the Proposal Submissions. Manufacturers listed whose product meets or exceed the specifications may be used on the Project. Other manufacturers must have a minimum of five (5) years experience manufacturing products meeting or exceeding the specifications and comply with Division 1 requirements regarding substitutions in order to be considered
   1. Kone Elevators.
   2. Thyssen Krupp.
   3. Schindler Elevator Corporation.

B. Elevator System: Machine roomless, holeless hydraulic elevator system with standard components included in elevator systems necessary for complete system.

C. Elevator Description:
   1. Rated Load: 2500 lb.
   2. Rated Speed: 125 fpm.
   3. Operation System: Single automatic operation.
   4. Stops: 2.
   5. Openings: Front ~~and Rear~~.
   6. Travel: ~~9'-3"~~ 160 inches.

7. Clear Inside Dimensions: 6' 5 9/16" x 4' 4 1/8".
8. Cab Height: 93 inches.
9. Clear Cab Height: 7’-4 5/16” (2243 mm)
10. Entrance Type and Width: Single Slide - 3'6" .
11. Entrance Height: 84 inches.
12. Main Power Supply: 480 volts ± 5% of normal, three-phase, with a separate equipment grounding conductor.
13. Operation: Simplex Collective Operation: Using a microprocessor-based controller, operation shall be automatic by means of the car and hall buttons. If all calls in the system have been answered, the car shall park at the last landing served.
14. Car Lighting Power Supply: 120 volts, single-phase, 15 amps, 60 Hz.
15. Car Enclosures:
    a. Front Walls (Return Panels): Satin stainless steel, No. 4 finish with integral car door frames.
    b. Car Fixtures: Satin stainless steel, No. 4 finish.
    c. Side and Rear Wall Panels: Satin stainless steel, No. 4 finish.
    d. Reveals: Black.
    e. Door Faces (Interior): Satin stainless steel, No. 4 finish.
    f. Door Sills: Nickel silver.
    g. Ceiling: Luminous ceiling.
    h. Handrails: 1/2 inch by 2 inches (13 by 50 mm) rectangular, at rear of car.
    i. Floor prepared to receive ~~resilient~~ tile flooring to match existing flooring in adjacent corridor.
16. Hoistway Entrances:
    a. Type: Single speed center opening.
    b. Frames: Satin stainless steel, No. 4 finish.
    c. Doors: Satin stainless steel, No. 4 finish.
    d. Sills: Nickel silver.
17. Hall Fixtures: Satin stainless steel, No. 4 finish.
18. Additional Requirements:
    a. Provide inspection certificate in each car, mounted under acrylic cover with frame made from satin stainless steel, No. 4 finish.
    b. Provide hooks for protective pads and one complete set of full height protective pads.

2.2 SYSTEMS AND COMPONENTS

A. Pump Units: Positive displacement type with a maximum of 10 percent variation between no load and full load and with minimum pulsations.
1. Pump shall be submersible type with submersible squirrel cage induction motor, and shall be suspended inside oil tank from vibration isolation mounts.
2. Motor shall have solid state starting.
3. Motor shall have variable voltage, variable frequency control.

B. Hydraulic Silencers: System shall have hydraulic silencer containing pulsation absorbing material in blowout proof housing at pump unit.

C. Piping: Size, type, and weight of piping as recommended by elevator manufacturer, with flexible connectors to minimize sound and vibration transmissions from power unit.
1. Cylinder units shall be connected with dielectric couplings.
2. Casing for Underground Piping: Schedule 40 PVC pipe complying with ASTM D 1785, joined with PVC fittings complying with ASTM D 2466 and solvent cement complying with ASTM D 2564.

D. Hydraulic Fluid: Nontoxic, biodegradable**,** fire resistant fluid, made from vegetable oil with antioxidant, anticorrosive, antifoaming, and metal passivating additives, that is approved by elevator manufacturer for use with elevator equipment.

E. Inserts: Furnish required concrete and masonry inserts and similar anchorage devices for installing guide rails, machinery, and other components of elevator work. Device installation is specified Section 055000.

F. Protective Cylinder Casing: PVC or HDPE pipe casing complying with ASME A17.1/CSA B44, of sufficient size to provide not less than 1 inch (25 mm) clearance from cylinder and extending above pit floor. Casing shall have means of monitoring effectiveness to comply with ASME A17.1/CSA B44.

G. Corrosion Protective Filler: A nontoxic, petroleum based gel formulated for filling the space between hydraulic cylinder and protective casing. Filler shall be electrically nonconductive, displace or absorb water, and gel or solidify at temperatures below 60 degrees F (16 degrees C).

H. Car Frame and Platform: Welded steel units.

I. Guides: Roller guides; provide guides at top and bottom of car frame.

2.3 OPERATION SYSTEMS

A. Provide standard microprocessor operation system required to provide type of operation indicated.

B. Auxiliary Operations:
1. Single Car Standby Powered Lowering: On activation of standby power, car is lowered to the lowest floor, opens its doors, and shuts down.
2. Automatic Operation of Lights and Fan: When elevator is stopped and unoccupied with doors closed, lighting, ventilation fan, and cab displays are de-energized after 5 minutes and are re-energized before car doors open.

2.4 DOOR REOPENING DEVICES

A. Infrared Array: Provide door-reopening device with uniform array of 36 or more microprocessor-controlled, infrared light beams projecting across car entrance. Interruption of one or more light beams shall cause doors to stop and reopen.

B. Nudging Feature: After car doors are prevented from closing for predetermined adjustable time, through activating door-reopening device, a loud buzzer shall sound and doors shall begin to close at reduced kinetic energy.

2.5 CAR ENCLOSURES

A. Provide steel framed car enclosures with nonremovable wall panels, with **r**emovable car roof, access doors, power door operators, and ventilation.
1. Provide standard railings complying with ASME A17.1/CSA B44 on car tops where required by ASME A17.1/CSA B44.

B. Materials and Finishes: Standards, but not less than the following:
1. Subfloor: Exterior, underlayment grade plywood, not less than 5/8 inch (15.9 mm) nominal thickness.
2. Floor Finish: Refer to Section 096500.

3. Stainless Steel Wall Panels: Flush, formed metal construction; fabricated from stainless steel sheet.
4. Fabricate car with recesses and cutouts for signal equipment.
5. Fabricate car door frame integrally with front wall of car.
6. Stainless Steel Doors: Flush, hollow metal construction; fabricated from stainless steel sheet or by laminating stainless steel sheet to exposed faces and edges of enameled or powder coated steel doors using adhesive that fully bonds metal to metal without telegraphing or oil-canning.
7. Sight Guards: Provide sight guards on car doors.
8. Sills: Extruded or machined metal, with grooved surface, 1/4 inch (6.4 mm) thick.
9. Luminous Ceiling: Fluorescent light fixtures and ceiling panels of translucent acrylic or other permanent rigid plastic.
10. Light Fixture Efficiency: Not less than 35 lumens/W.
11. Ventilation Fan Efficiency: Not less than 3.0 cfm/W (1.4 L/s per W).

2.6 HOISTWAY ENTRANCES

A. Hoistway Entrance Assemblies: Horizontal sliding, door and frame hoistway entrances complete with track systems, hardware, sills, and accessories. Frame size and profile shall accommodate hoistway wall construction.
   1. Where gypsum board wall construction is indicated, frames shall be self supporting with reinforced head sections.

B. Fire Rated Hoistway Entrance Assemblies: Door and frame assemblies shall comply with NFPA 80 and be listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction based on testing at as close-to-neutral pressure as possible according to NFPA 252 or UL 10B.
   1. Fire Protection Rating: 1 hour with 30 minute temperature rise of 450 degrees F (250 degrees C).

C. Materials and Fabrication: Standard, but not less than the following:
   1. Steel Subframes: Formed from cold or hot rolled steel sheet, with factory applied enamel or powder coat finish or rust resistant primer. Fabricate to receive applied finish as indicated.
   2. Stainless Steel Frames: Formed from stainless steel sheet.
   3. Stainless Steel Doors: Flush, hollow metal construction; fabricated from stainless steel sheet or by laminating stainless steel sheet to exposed faces and edges of enameled or powder coated steel doors using adhesive that fully bonds metal to metal without telegraphing or oil canning.
   4. Sight Guards: Provide sight guards on doors matching door edges.
   5. Sills: Extruded or machined metal, with grooved surface, 1/4 inch (6.4 mm) thick.
   6. Nonshrink, Nonmetallic Grout: Factory packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M.

2.7 SIGNAL EQUIPMENT

A. Provide hall call and car call buttons that light when activated and remain lit until call has been fulfilled. Provide vandal resistant buttons and lighted elements illuminated with LEDs.

B. Car Control Stations: Provide recessed or semirecessed car control stations. Mount in return panel adjacent to car door unless otherwise indicated.
   1. Mark buttons and switches for required use or function. Use both tactile symbols and Braille.
   2. Provide "No Smoking" sign matching car control station, either integral with car control station or mounted adjacent to it, with text and graphics as required by authorities having jurisdiction.

C. Emergency Communication System: Two way voice communication system, with visible signal, which dials preprogrammed number of monitoring station and does not require handset use. System is contained in flush mounted cabinet, with identification, instructions for use, and battery backup power supply.

D. Firefighters' Two Way Telephone Communication Service: Provide flush mounted cabinet and required conductors in traveling cable for firefighters' two way telephone communication service.

E. Car Position Indicator: Provide digital type car position indicator, located above car door or above car control station. Provide audible signal to indicate to passengers that car is either stopping at or passing each of the floors served. Include travel direction arrows if not provided in car-control station.

F. Hall Push Button Stations: Provide one hall push button station at each landing.
   1. Provide units with flat faceplate for mounting with body of unit recessed in wall.
   2. Equip units with buttons for calling elevator and for indicating applicable direction of travel.

G. Hall Lanterns: Units with illuminated arrows; however, provide single arrow at terminal landings. Provide the following:
   1. Wall mounted units, for mounting above entrance frames.

H. Hall Annunciator: With each hall lantern, provide audible signals indicating car arrival and direction of travel. Signals sound once for up and twice for down.
   1. At manufacturer's option, audible signals may be placed on cars.

I. Hall Position Indicators: Provide digital display type position indicators, located above hoistway entrance at ground floor.
   1. Provide units with flat faceplate for mounting and with body of unit recessed in wall.
   2. Integrate ground floor hall lanterns with hall position indicators.

J. Standby Power Elevator Selector Switches: Provide switches, required by ASME A17.1/CSA B44, where indicated. Adjacent to switches, provide illuminated signal that indicates when normal power supply has failed.

K. Fire Command Center Annunciator Panel: Provide panel containing illuminated position indicators for each elevator, clearly labeled with elevator designation; include illuminated signal that indicates when elevator is operational and when it is at the designated emergency return level with doors open. Provide standby power elevator selector switch(es), required by ASME A17.1/CSA B44, adjacent to position indicators. Provide illuminated signal that indicates when normal power supply has failed.

L. Emergency Pictorial Signs: Fabricate from materials matching hall push button stations, with text and graphics as required by authorities having jurisdiction, indicating that in case of fire, elevators are out of service and exits should be used instead. Provide one sign at each hall push-button station unless otherwise indicated.

2.8 FINISH MATERIALS

A. Cold Rolled Steel Sheet: ASTM A 1008/A 1008M, commercial steel, Type B, exposed, matte finish.

B. Hot Rolled Steel Sheet: ASTM A 1011/A 1011M, commercial steel, Type B, pickled.

C. Stainless Steel Sheet: ASTM A 240/A 240M, Type 304.

D. Textured Stainless Steel Sheet: ASTM A 240/A 240M, Type 304, with embossed texture rolled into exposed surface.

E. Stainless Steel Bars: ASTM A 276, Type 304.

F. Stainless Steel Tubing: ASTM A 554, Grade MT 304.

G. Aluminum Extrusions: ASTM B 221 (ASTM B 221M), Alloy 6063.

H. Nickel Silver Extrusions: ASTM B 151/B 151M, Alloy UNS No. C74500 or No. C77600.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine elevator areas for compliance with requirements for installation tolerances and other conditions affecting performance of the Work. Verify critical dimensions and examine supporting structure and other conditions under which elevator work is to be installed.

B. Prepare written report listing conditions detrimental to performance of the work.

C. Proceed with installation after correcting unsatisfactory conditions.

3.2 INSTALLATION

A. Install cylinder plumb and accurately centered for elevator car position and travel. Anchor securely in place, supported at pit floor and braced at intervals as needed to maintain alignment. Anchor cylinder guides at spacing needed to maintain alignment and avoid overstressing guides.

B. Welded Construction: Provide welded connections for installing elevator work where bolted connections are not required for subsequent removal or for normal operation, adjustment, inspection, maintenance, and replacement of worn parts. Comply with AWS workmanship and welding operator qualification standards.

C. Sound Isolation: Mount rotating and vibrating equipment on vibration-isolating mounts to minimize vibration transmission to structure and structure-borne noise due to elevator system.

D. Install piping above the floor, where possible. Install underground piping in casing.
   1. Excavate for piping and backfill encased piping according to applicable requirements.

E. Lubricate operating parts of systems recommended by manufacturers.

F. Alignment: Coordinate installation of hoistway entrances with installation of elevator guide rails for accurate alignment of entrances with car. Where possible, delay installation of sills and frames until car is operable in shaft. Reduce clearances to minimum, safe, workable dimension at each landing.

G. Leveling Tolerance: 1/4 inch (6 mm), up or down, regardless of load and travel direction.

H. Set sills flush with finished floor surface at landing. Fill space under sill solidly with nonshrink, nonmetallic grout.

I. Locate hall signal equipment for elevators as follows unless otherwise indicated:

1. Place hall lanterns either above or beside hoistway entrance.
2. Mount hall lanterns at a minimum of 72 inches (1829 mm) above finished floor.

3.3 FIELD QUALITY CONTROL

A. Acceptance Testing: On completion of elevator installation and before permitting elevator use (either temporary or permanent), perform acceptance tests as required and recommended by ASME A17.1/CSA B44 and by governing regulations and agencies.

B. Advise Owner, Architect, and authorities having jurisdiction in advance of dates and times that tests are to be performed on elevators.

3.4 PROTECTION

A. Temporary Use: Do not use elevator for construction purposes:

3.5 DEMONSTRATION

A. Engage a factory authorized service representative to train Owner's maintenance personnel to operate, adjust, and maintain elevator.

B. Check operation of elevator with Owner's personnel present before date of Substantial Completion and again not more than one month before end of warranty period. Determine that operation systems and devices are functioning properly.

3.6 MAINTENANCE

A. Initial Maintenance Service: Beginning at Substantial Completion, maintenance service shall include 24 months' full maintenance by skilled employees of elevator Installer. Include monthly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper elevator operation. Parts and supplies shall be manufacturer's authorized replacement parts and supplies.
   1. Perform maintenance during normal working hours.
   2. Perform emergency callback service during normal working hours with response time of two hours or less.

END OF SECTION 14 24 00

SECTION 27 10 00- STRUCTURED CABLING SYSTEM

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

PART 1 - GENERAL

1.1 DESCRIPTION

A. Summary of Work:
1. Provide a complete and tested cable distribution system for data interconnections (Local Area Network). The data distribution system shall include fully terminated unshielded twisted pair cables, fiber optic cabling, raceways, conduit, UTP termination devices, data communications outlets, fiber enclosures, patch panels, patch cables, network racks, and other incidental and miscellaneous premises wiring system hardware as required for a complete and usable system. The installation shall comply with all applicable codes and standards in effect at the job site and as indicated in the Drawings and Specifications.

1.2 QUALITY ASSURANCE

A. Acceptable manufacturers:
1. The equipment/products described herein, and furnished per these specifications shall be the product of one manufacturer. All references to model numbers and other detailed descriptive data is intended to establish standards of design performance, and quality, as required.
2. **Acceptable product shall be a complete category 6 solution as manufactured by CommScope/Uniprise.** No other product will be accepted.

B. Installer Qualifications:
1. The Data Cable System Installer shall be licensed and shall meet all applicable regulations of the State of Texas and Department of Labor insofar as they apply to this type of system. The proposer shall be a firm normally employed in the low voltage and data cabling industry and shall provide a reference list of five (5) large-scale projects and contact names confirming successful Category 6 premises wiring system installations.
2. **The Data Cable System Installer shall be a CommScope/Uniprise certified, local area, V.A.R. (Value Added Reseller) and must hold current V.A.R. certification.**

C. Pre-Construction Meeting:
1. The successful Contractor shall attend a mandatory pre-construction meeting with individuals deemed necessary by the Owner's representative prior to the start of the work.

D. Acceptance:
1. The Owner's representative reserves the right to reject all or a portion of the work performed, either on technical or aesthetic grounds.

E. Warranty:
1. The selected system installer shall be a certified installing contractor of product and hold current certification. Contractor shall be shall provide an end-to-end performance warranty of not less than twenty (25) years on all products installed. The proposer shall provide current certification documentation. The performance warranty shall be issued by the manufacturer and shall warrant that ALL Enhanced Category 6 cable links have been tested bi-directionally (end to end)

using a Level 2 tester, per TSB-67, and that all test results conform to the most current TIA/EIA-568-A and/or TSB-67 Link values.

2. The warranty will also cover singlemode fiber optic cabling. Performance testing shall be conducted in accordance with ANSI/EIA/TIA-526-14 Standard, method B.
3. The warranty will stipulate that all products used in this installation meet the prescribed mechanical and transmission specifications for such products as described in ISO/IEC 11801, ANSI/TIA/EIA-568-A, or EN 50173. Quality and workmanship evaluation shall be solely by the Owner/Designer and designated representatives.

1.3 REGULATORY REQUIREMENTS

A. Standards: All work shall be performed in accordance with the latest revisions of the following standards and codes:
1. Latest Local Codes and Amendments
2. 2015 or current National Electrical Code

B. Other References:

1.	TIA/EIA-568-A	Commercial Building Telecommunications Wiring Standard
2.	EIA/TIA-569	Commercial Building Standard for Telecommunication Pathways and Spaces.
3.	TIA/EIA-606	The Administration Standard for the Telecommunications Infrastructure of Commercial Buildings.
4.	TIA/EIA-607	Commercial Building Grounding and Bonding Requirements for Telecommunications.
5.	EIA/TIA 455-A	Standard Test Procedure for Fiber Optic Fibers, Cables, Transducers, Sensors, Connecting and Terminating Devices and Other Fiber Optic Components.
6.	TIA/EIA TSB 67	Transmission Performance Specification for Field Testing of Unshielded Twisted-Pair Cabling Systems.
7.	TIA/EIA TSB 72	Centralized Optical Fiber Cabling Guidelines
8.	ISO/IEC 11801	Generic Cabling Standard
9.	EN 50173	Generic Cabling Standards for Customer Premises
10.	ANSI/EIA/TIA 526-14	Optical Power Loss Measurements of Installed singlemode Fiber Cable Plan.

C. Governing Codes and Conflicts:
1. If the requirements of these specifications or the Project Drawings exceed those of the governing codes and regulations, then the requirements of these specifications and the Drawings shall govern. However, nothing in the Drawings or Specifications shall be construed to permit work not conforming to all governing codes and regulations.

1.4 ABBREVIATIONS

A. The following abbreviations are used in this document:

DC	Direct Current
IDF	Intermediate Distribution Frame
MDF	Main Distribution Frame
PBX	Private Branch Exchange
UTP	Unshielded Twisted Pair

1.5 SUBMITTALS

A. Project Initiation:
1. Within fourteen (14) days of Notice to Proceed, the data network system installer shall furnish the following in a single consolidated submittal:
a. Permits: The Contractor shall obtain all required permits and provide copies to the Owner/Architect/Engineer.
b. Product Literature: Complete manufacturer's product literature for all cable, patch panels, cross-connect blocks, cable supports, cable labels, outlet devices, and other products to be used in the installation. In addition, whenever substitutions for recommended products are made, samples (when requested by the Owner/Designer) and the manufacturer's supporting documentation demonstrating compatibility with other related products shall be included.
c. Construction Schedule: A time-scaled Construction Schedule, using Construction Management, indicating general project deadlines and specific dates relating to the installation of the cable distribution system.
d. Testing: Proposed Contractor Enhanced Category 6 UTP cable test result forms, fiber optic cable test result forms and a list of instrumentation to be used for systems testing.
e. **Spec Compliance. Submit a line by line item compliance statement indicating that the products being submitted comply with the specified equipment and indicate which products deviate from the specifications**.

B. Shop Drawings:
1. Submit the following items, for Owner review and approval, within twenty-eight (28) days of notice to proceed:
a. Proposed circuit routing and circuit grouping plan prepared by a BICSI certified RCDD (Registered Communications Distribution Designer). The RCDD certification must be current.
b. Conformance: For items which are being provided exactly as specified, provide a letter stating the item description and model number, and that it is being provided as specified. For items which are not as specified, provide standard manufacturer's cut sheets or other descriptive information and a written description detailing the reason for the substitution.

C. Project Completion:
1. As a condition for project acceptance, the Contractor shall submit the following for review and approval:
a. Samples: Complete manufacturer's product literature and samples (if requested) for all pre-approved substitutions to the recommended products made during the course of the Project.
b. Inspection and Test Reports: During the course of the project, the Contractor shall maintain an adequate inspection system to insure that the materials supplied and the work performed conform to Contract requirements. The contractor shall provide written documentation that indicates that materials acceptance testing was conducted as specified. The Contractor shall also provide documentation, which indicates that all cable termination testing was completed and that all irregularities were corrected prior to job completion.
c. Operating and Maintenance Instructions: Operating and maintenance instructions for all devices within the system. These instructions shall reflect any changes made during the course of construction, and shall be

provided to the Owner for their use in a three-ring binder labeled with the project name and description (4 copies).

d. As-Built Drawings: As-built drawings will include cable pathways, data outlet locations with correct labeling and MDF location. The as-built drawings will be prepared using AutoCAD version 14 or later. Provide the Owner with one mylar plot of each drawing and two blue line prints of each drawing. Provide the Owner with electronic versions of the as-builts on USB or CD Rom.

PART 2 - PRODUCTS

2.1 GENERAL

A. Installation: The cabling shall be installed per requirements of the manufacturer and the Project Documents utilizing materials meeting all applicable TIA/EIA standards. The Contractor is responsible for providing all incidental and/or miscellaneous hardware not explicitly specified below as required for a complete and operational system.

B. Materials: Materials shall be as listed or shall be approved equivalent products of other manufacturers meeting the intent and quality level of the TIA/EIA specifications. All approved equivalent products will be published by addendum ten days prior to proposal for Architect/Engineer to review.

C. Testing: All installed cabling shall be tested 100% good after installation by the Contractor.

D. Ratings: All products shall be new and brought to the job site in the original manufacturer's packaging. Electrical components (including innerduct) shall bear the Underwriter's Laboratories label. All communications cable shall bear flammability testing ratings as follows:

CM Communications Cable
CMP Plenum Rated Communications Cable
CMR Riser-Rated Communications Cable

E. Initial Cable Inspection: The Contractor shall inspect all cable prior to installation to verify that it is identified properly on the reel identification label, that it is of the proper gauge, containing the correct number of pairs, etc. Note any buckling of the jacket that would indicate possible problems. Damaged cable or any other components failing to meet specifications shall not be used in the installation.

F. Cable Lubricants: Lubricants specifically designed for installing communications cable may be used to reduce pulling tension as necessary when pulling cable into conduit.

1. Approved Products
   a. Twisted-pair cable: Dyna-Blue
      American Polywater
   b. Optical Fiber cable: Optic Lube
      Ideal

G. Fire Wall Sealant: Any penetration through firewalls (including those in sleeves) will be resealed with an Underwriter Laboratories (UL) approved sealant.

1. Approved Products
   a. 3M or
   b. Pre-approved equal

2.2 DATA CLOSET (MDF/IDF) CATEGORY 6 TERMINATION HARDWARE

A. Equipment Racks:

Provide and install equipment racks in locations indicated on the attached drawings for the following areas.

For all MDF/IDF locations:

Contractor shall provide and install new floor mounted rack systems where indicated on plans. Refer to floor plan and enlarged MDF/IDF room layouts for number or racks to provide at each location.

1. 19", 4 post floor mounted rack – Hoffman – E4DR19FM45U
2. 19". 2-post floor mounted rack – Hoffman – EDR19FM45U

B. Distribution Rack/Cabinet Grounding:
All Racks and/or Cabinets shall be individually grounded using stranded #6 AWG insulated copper conductor, from the rack to the telecommunication ground bus bar, with copper compression lugs at both ends of the grounding wire. **DAISY CHAINING RACKS TOGETHER WILL NOT BE ACCEPTED.** Provide all required bonding materials and hardware and bond to building grounding electrode subsystem at building electrical service entrance.

1. Approved Products –Grounding Compression Lugs
   a. Hoffman #DGCL61
2. Approved Products – Wall Mount Bus Bar (one pre MDF/IDF location)
   a. Hoffman #DGTB412

C. Category 6 Patch Panels: The Category 6 data station cable shall be terminated on Category 6 RJ45 patch panels with circuit board construction, T568B terminations. Patch panels shall be 19-inch rack mountable. Patch panels shall terminate all copper telecommunications circuits on the entire project. Furnish units that adhere to the performance requirements TIA/EIA-568A standards.

a. Approved Products:
   a. Category 6 Patch Panels 48-Port patch panels shall be Uniprise UNP-6-DM-2U-48. Provide the quantity required to terminate 120% of all category 6 workstations and IP telephone circuits on the entire project.
   b. Category 6 Patch Panels 48-Port patch panels shall be Uniprise UNP-6-DM-2U-48. Provide the quantity required to terminate 120% of all Category 6 wireless access point circuits on the entire project.
   c. Category 6 Patch Panels 48-Port patch panels shall be Uniprise UNP-6-DM-2U-48. Provide the quantity required to terminate 120% of all category 6 IP Camera circuits on the entire project.
   d. Category 5E Patch Panels 24-Port patch panels shall be Uniprise Product No. CPP-5E-DM-1U. Provide one (1) patch panel at each end of every twenty-five (25) pairs of copper tie cable installed on the entire project.

D. Cable Management Panels
Provide cable management panels as required for horizontal and vertical cable management. Provide vertical wire management on ends and in between all racks on entire project. **All vertical cable managers on the entire project shall be 8" wide management.**

1. Approved Products

Vertical – CommScope, Front and Rear, #VCM-DS-84-8B with covers on front and back.

Provide Velcro straps for cable dressing in MDF/IDF rooms.

E. Rack/Cabinet Electrical:
1. A power distribution strip shall be installed vertically at the back of each data rack and/or cabinet.
Approved Products
a. Hoffman Eaton EPBZ97 120V 15A.
b. Provide a PDU offset bracket for each PDU installed.
c. Vertical Cable Manager, 8": Commscope # VCM-DS-84-8B. Provide as required.

F. Network Rack Patch Cables: Cabling Contractor shall provide, for the owner's installation, (1) – Category 6 patch cable for each data drop on entire project. These cables will provide connectivity from the front of the network patch panels to the, owner provided, network equipment. The patch cables are to be **"FACTORY"** terminated properly with RJ-45 connections on each end with the proper pin-out assignments per project configuration.
1. Approved Products:
a. 1' Category 6 Patch Cable, Uniprise # UC1BBB2-0ZF001 (blue in color for all connections)
b. 6' Category 6 Patch Cable, Uniprise # UC1BBB2-0ZF006 (blue in color for all connections)
c. Contractor to provide patch cables for each system as indicated:
1) 95% - 1'
2) 5% - 6'

2.3 CABLE ROUTING/PATHWAY

A. Cable Tray: Metal cable tray shall be provided to affix to the top of all floor mount racks. Cable tray shall be used to brace racks to walls and to route cable from walls to racks in communication closets.

Provide Tubular Stringer Style – 1 ½" Boxed ladder type cable runway for communications pathway shown on plans
1. Approved Products:
a. Universal Cable Runway: Commscope #760085647 / CRSLR-10L12W (black). Provide vertically down wall and horizontally to rack.
b. Cable Runway 90° Vertical Bend: Commscope # 760085530 / CR90FCB-12W (black), Provide for each transition from vertical wall run to horizontal run.
c. Ladder Rack Inside Curved Section, 12": Commscope # 760085688 / CR901CB-12W (black). Provide as required.
d. Ladder Rack Outside Curved Section, 12": Commscope # 760086082 / CR900CB-12W (black). Provide as required.
e. Rack to Runway Mounting Plate: Commscope # 760084053 / CRR2RRMK (black). Provide one each per rack.
f. Wall Angle Support Kit, 12": Commscope # 760084145 / CR612WRSK (black). Provide as required per ladder tray and wall junction.
g. Ladder Tray Triangle Support Bracket, 12": Commscope # 760084095 / CRTWSBK-12W (black). Provide as required.
h. End Cap Kit (2 caps): Commscope # 760084012 / CRPECK (black). Provide as required per exposed end of ladder tray

i. Ladder Tray Junction Splice Kit: Commscope # 760084046 / CRTJSK (black). Provide as required per junction.
j. Ladder Rack, Butt Splice Kit: Commscope # 760083899 / CRBSK (black). Provide as required.
k. Ladder Tray Radius Drop Kit, 12": Commscope # 760083949 / CRDK6W (black). Provide as required.
l. Ladder Rack Retaining Post Kit: Commscope # 760083972 / CRRP6H. Provide as required.
m. Vertical Wall Bracket: Commscope # 760084137 / CRVWBK. Provide as required.
n. And all applicable installation accessories.
o. Provide all grounding required per NEC. Coordinate ground bus location with electrical installer.

B. Cable Support System: All low voltage cabling shall be installed and supported with J-hooks or cable saddles at 5'-0" intervals unless installed in conduit. Do not exceed manufacture recommendation for the quantity of cables supported in an individual support.

C. All cable bundles shall be grouped together using plenum rated Velcro for the entire run above and below the ceilings.

2.4 STATION WIRING

A. Wire: The data and voice wire provided for all outlets shall be (Category 6) unshielded twisted pair, four-pair, 24 AWG solid copper conductor, meeting the intent and quality level of the TIA/EIA-568-A Commercial Building Wiring Standard. Refer to floor plan and data outlet legend for number of active data ports to specified faceplates.
1. Approved Products: For all voice and data connections:
a. Plenum-Rated LAN Cable (blue color for all circuits on the entire project)
1) Uniprise CS34P ETL, Plenum rated, Category 6
2) 1000' reel, Uniprise # UN874049914/10 / CS34P BLU C6 4/23 U/UTP CPK 1KFT
3) 3000' reel, Uniprise # UN884017284/30 / CS34R BLU C6 4/23 U/UTP RL 3KFT

B. Testing: The Category 6 four-pair UTP cable must be UL Performance Level tested. Each 1000 or 3000 foot spool shall be new, have a WebTrak® number on it, and must be individually tested with test results available at http://www.uniprisesolutions.com/webtrak **"SHORTS" WILL NOT BE ALLOWED AND IF DISCOVERED, CONTRACTOR WILL BE REQUIRED TO REMOVE ALL CABLE AND REINSTALL AT NO ADDITIONAL COST TO OWNER.**

C. Rating: Cable installed in conduit shall be non-plenum rated. Cable not installed in conduit shall be plenum rated if installed in plenum ceiling space, non plenum rated otherwise.

2.5 STATION HARDWARE

1. Station Hardware, data wiring for security cameras shall be lime green in color from camera back to the network patch panel. Patch cables shall also be lime green for all security camera network connections. It is the responsibility of the data cabling contractor to install the data cabling from the camera back to the MDF/IDF closet.

2. Station Hardware, data wiring for access control modules shall be purple in color from access control module back to the network patch panel. Patch cables shall also be purple for all access control module network connections. It is the responsibility of the data cabling contractor to install the data cabling from the access control module (card reader locations) back to the MDF/IDF closet.

A. Flush Mount Jacks: Flush mount jacks shall be high quality Category 6 RJ45 modular jacks with circuit board construction and 110-type IDC terminals. Jacks shall meet EIA/TIA TSB40 recommendations for Category 6 connecting hardware.
1. Approved Products:
a. Category 6 Commscope, Uniprise Modular Jack # 760237778 / UNJ600-BL (blue for all drops on the entire project)

B. Faceplates: Faceplates shall be a 4-port, flush mounted, stainless in color for RJ45 outlets at all locations.
1. Provide wall mounted handset faceplates where applicable for wall mounted phone. Refer to floor plan for locations.
2. Mounting Straps (where applicable)
3. Provide blank inserts for all unused ports. Systimax #M20AP-262, white in color.

C. Workstation Patch Cables: Cabling Contractor shall provide owner with (1) Category 6 Uniprise patch cable for each data drop on entire project. Each cable will be **"FACTORY"** terminated properly with RJ45 connections on each end with appropriate pin-out assignments per project configuration.

1. Approved Products:
a. 10' Category 6 Patch Cable, Uniprise # UNC10G-BL (blue in color for all connections).
b. 15' Category 6 Patch Cable, Uniprise # UNC10G-BL (blue in color for all connections).
2. Contractor to provide patch cables for each system as indicated:
a. 90% - 10'
b. 10% - 15'

3. Contractor to provide patch cables for each system at station and patch panel as indicated:
a. Wireless - gray
b. Camera – lime green
c. Data – blue
d. Security - purple

PART 3 - EXECUTION

3.1 GENERAL

A. Fire Wall Penetrations: The contractor shall avoid penetration of fire-rated walls and floors wherever possible. Where penetrations are necessary, they shall be sleeved with metallic conduit and resealed with an Underwriter Laboratories (UL) approved sealant. Contractor shall also seal all floor, ceiling and wall penetrations in fire or smoke barriers and in the wiring closet.

B. Allowable Cable Bend Radius and Pull Tension: In general, communications cable cannot tolerate sharp bends or excessive pull tension during installation. Refer to the cable manufacturers allowable bend radius and pull tension data for the maximum

allowable limits.

C. Cable Lubricants: After installation, exposed cable and other surfaces must be cleaned free of lubricant residue.

D. Pull Strings: Provide pull strings in all new conduits, including all conduits with cable installed as part of this contract. Pull test is not to exceed 200 pounds. Data and video cables can be pulled together with pull strings.

E. Conduit Fill: Conduit fill shall not exceed 40%.

F. Damage:
1. The Contractor shall replace or rework cables showing evidence of improper handling including stretches, kinks, short radius bends, over-tightened bindings, loosely twisted and over-twisted pairs at terminals and cable sheath removed too far (over 1-1/2 inches).
2. The Contractor shall replace any damaged ceiling tiles that are broken during cable installation.

G. Clean Up:
All clean up activity related to work performed will be the responsibility of the Contractor and must be completed daily before leaving the facility.

3.2 DOCUMENTATION

A. Labels:
The Contractor will label all outlets using permanent/legible typed or machine engraved labels approved by the Owner (no handwritten labels permitted). Label patch panels in the wiring closet to match those on the corresponding data outlets. The font shall be at least on-eighth inch (1/8”) in height, block. All labels shall correspond to as-builts and to final test reports.

Contractor shall coordinate labeling with owner prior to beginning of labeling for entire project to ensure district standards are followed and existing building nomenclature is kept in place.

B. Floor Plan: A floor plan clearly labeled with all outlet jack numbers shall be included in the as-built plans.

3.3 EQUIPMENT RACK CONFIGURATION

A. Equipment Racks: Equipment racks shall be assembled and mounted in locations shown on the Drawings and as detailed. Each rack shall be securely mounted to the floor and braced to the wall with cable tray in accordance with the manufacturer’s instructions and recommendations. Racks shall be mounted such that the side rails are plumb with vertical cable management panels. Racks to be located such that future expansion can occur without relocating existing racks. Racks shall be grounded in accordance with NEC requirements.

B. Wire Management Components: Horizontal cable management panels shall be installed directly above and below each patch panel, also 2 per each 48 port patch panel should be left at site to accommodate the switch gear when they are installed. Vertical cable management panels shall be installed on each side of the rack. In instances where more than one rack is installed in a single location, vertical cable management shall be installed between the racks and on either side.

C. Cable Placement: Cable installation in the Wiring Closet must conform to the Project Drawings. All cabling shall be routed so as to avoid interference with any other service or system, operation, or maintenance location. Avoid crossing area horizontally just above or below any riser conduit. Lay and dress cables to allow other cables to enter the conduit/riser without difficulty at a later time by maintaining a working distance from these openings.

D. Cable Routing: Cable shall be routed as close as possible to the ceiling, floor or corners to ensure that adequate wall or backboard space is available for current and future equipment. All cable runs within the Wiring Closet shall be horizontal or vertical within the constraints of minimum cable bending radii. Minimum bend radius shall be observed. Cables shall not be tie-wrapped to electrical conduit or other equipment.

E. Installation: All incoming cables shall be routed on the cable tray and neatly dressed down to the patch panels.

F. Hardware: Provide rack and jack panel hardware as required for all data station wiring.

3.4 STATION WIRING INSTALLATION

A. General:
1. Cabling between wiring closet and workstation locations shall be made as individual home runs. No intermediate punch down blocks or splices may be installed or utilized between the wiring closet and the communications outlet at the workstation location.
2. All cable must be handled with care during installation so as not to change performance specifications. Factory twists of each individual pair must be maintained up to the connection points at both ends of the cable. There shall never be more than one and one-half inches of unsheathed Category 6 UTP cable at either the wiring closet or the workstation termination locations.

B. Exposed Cable:
1. All cabling shall be installed inside walls or ceiling spaces whenever possible. Exposed station cable will only be run where indicated on the Drawings.
2. Additional exposed cable runs will require Owner approval, and will only be allowed when no other options exist.

C. Placement: All cabling and associated hardware shall be placed so as to make efficient use of available space. All cabling and associated hardware shall be placed so as not to impair the Owner’s efficient use of their full capacity.

D. Cable Routes:
1. All cabling placed in ceiling areas must be in conduit or D ring supports. Cable supports shall be permanently anchored to building structure or substrates. Provide attachment hardware and anchors designed for the structure to which attached and that are suitably sized to carry the weight of the cables to be supported. Do not route cable through webbing of structural steel. Cabling must be supported in dedicated supports intended to support cabling as described in this section.
2. Attaching cable to pipes or other mechanical items is not permitted. Communications cable shall be rerouted so as to provide a minimum of 18 inches spacing from light fixtures, sources of heat, power feeder conduits and EMI sources. Cabling shall not be attached to ceiling. Grid support wires. Cable runs shall be parallel or perpendicular to building structure. Multiple cables to be

bundled together every 6 feet.

3.5 STATION HARDWARE

A. Flush Mount Jacks: Flush mount jacks shall be mounted in a faceplate with backbox.

B. Placement: Where possible, the communications outlet shall be located so that its centerline is 18 inches above floor level or 12 inches above permanent bench surfaces. Outlets shall not be mounted on temporary, movable, or removable surfaces, doors, or access hatches.

C. RJ-45 Jack Pin Assignments:
1. Pin connections for data station cable outlets and patch panels shall match EIA/TIA 568 modular jack wiring recommendation T568B.
2. Pin connections at data jack panels shall match pin connections at outlets (straight through wiring).

3.6 CABLE TESTING REQUIREMENTS

A. Notification: The Owner and Engineer shall be notified one week prior to any testing so that the testing may be witnessed.

B. Inspection: Before requesting a final inspection, the Contractor shall perform a series of end-to-end installation performance tests. The Contractor shall submit for approval a proposal describing the test procedures, test result forms and timetable for all copper and fiber optic cabling.

C. Procedures: Trained personnel shall perform all testing. Acceptance of the test procedures discussed below is predicated on the Contractor's use of the recommended products and adherence to the inspection requirements and practices set forth. Acceptance of the completed installation will be evaluated in the context of each of these factors.

D. Errors: When errors are found, the source of each shall be determined, corrected and the cable retested. All defective components shall be replaced and retested. Re-test results must be provided on Owner approved forms and witnessed by Owner.

E. Twisted Pair Cable Testing:
1. At a minimum, the Contractor shall test all station drop cable pairs from Data Closet termination patch panels to outlet device RJ45 jacks. Enhanced Category 6 products shall be tested for compliance to ANSI/TIA/EIA 568A and ISO/IES 11801 for a Enhanced Category 6 rated installation. Test equipment used shall meet TIA/EIA TSB-67, Level II accuracy. Further, the contractor shall have a copy of TSB-67 in their possession and be familiar with its contents.
2. Each wire/pair shall be tested at both ends for the following:
   a. Wire map (pin to pin connectivity)
   b. Length (in feet)
   c. Attenuation
   d. Near end cross talk (NEXT)
   e. Power Sum
3. Test equipment shall provide an electronic and printed record of these tests.
4. Test results for each Enhanced Category 6 four-pair UTP cable must be submitted with identification to match labels on all patch panel ports and RJ45 jacks and must match as-builts associated with that cable.

F. Testing: Once installed the cabling will be tested for continuity, shorts and grounds.

1. Cabling:
   a. Continuity – 100% continuity testing is required and will be tested from the MDF/IDF location to each classroom drop. A checklist of each cable and test performed on that cable will be submitted once the testing has been completed.
   b. Shorts – No cable shorts will be permitted on the system. If a short is detected, the connector or cable will be repaired or replaced.
   c. Grounds – No direct ground on the center conductor of the AVDN cables are permitted.
2. System:
   a. Continuity – As tested in the above testing requirements.
   b. Power Readings – A power reading will be required at each drop of each of the cabling systems. A +3 dB to a +7 dB is required at each drop with a common feed signal of + 15 dB into the head end amplifier. These measurements to be taken with an approved field strength meter of know calibration. Test measurements to be performed at low channel, mid-band channel, and high channel to determine cable slope.
   c. Signal Quality – A standard receiver, typical of those used in the system, shall randomly be connected to 10% of the outlets across the system and tuned to a reference channel of known quality. No visible indication of co-channel interference, noise, ghosting, or beat interference may be observed.
   d. Carrier to Noise – Carrier to Noise shall be measured at random outlets representing an average cross section of the drops with an approved field strength meter by the following process. With normal operating levels the field set shall be tuned to each channels visual carrier and the level recorded. The input signal to the head end amplifier shall be removed and the input of the amplifier terminated with a short. Each channel shall be re-measured and the noise levels recorded. The Carrier to Noise measurement is the difference of the two figures.
   e. Documentation of Results – All recorded measurements are to be tabulated and included in the systems documentation manual for reference during maintenance of the system.

3.7 INSPECTION

A. General: Conformance to the installation practices covered above are to be verified when completed. In some cases, the Owner/Designer may inspect before acceptance.

END OF SECTION

DRAWING INDEX
G-001
FOR BLUEBEAM LABELING OCR:

0"
1"

VOLUME 1

GENERAL

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G-011	2ND FLOOR LIFE SAFETY PLAN
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G-061	SIGNAGE DETAILS
G-070	FIRE RATED ASSEMBLIES

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ASD201	ENLARGED SITE PLAN - DEMOLITION
ASD202	ENLARGED SITE PLAN - DEMOLITION
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AD001	1ST LEVEL - DEMO PLAN - COMPOSITE
AD001.1	1ST LEVEL - DEMO PLAN - COMPOSITE - ALTERNATE #04
AD002	2ND LEVEL - DEMO PLAN - COMPOSITE
AD002.1	2ND LEVEL - DEMO PLAN - COMPOSITE - ALTERNATE #04
AD021	1ST LEVEL - DEMO CEILING PLAN - COMPOSITE
AD021.1	1ST LEVEL - DEMO CEILING PLAN - COMPOSITE - ALTERNATE #02
AD022	2ND LEVEL - DEMO CEILING PLAN - COMPOSITE
AD022.1	2ND LEVEL - DEMO CEILING PLAN - COMPOSITE - ALTERNATE #02
AD101A	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA A
AD101A.1	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA A - ALTERNATE #05
AD101B	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA B
AD101B.1	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA B - ALTERNATE #05
AD101C	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA C
AD101C.1	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA C - ALTERNATE #05
AD101D.1	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA D - ALTERNATE #05
AD101E	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA E
AD101E.1	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA E - ALTERNATE #05
AD101F	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA F
AD101F.1	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA F - ALTERNATE #05
AD101G	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA G
AD101G.1	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA G - ALTERNATE #05
AD101G.2	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA G - ALTERNATE #03
AD101H	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA H
AD101H.I	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA H - ALTERNATE #08
AD101J	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA J
AD101K	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA K
AD101M.1	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA M - ALTERNATE #05
AD101N	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA N
AD101N.1	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA N - ALTERNATE #05
AD101P.1	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA P - ALTERNATE #05
AD101S	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA S
AD101U	1ST LEVEL - DEMOLITION FLOOR PLAN - AREA U
AD102A	2ND LEVEL - DEMOLITION FLOOR PLAN - AREA A
AD102A.1	2ND LEVEL - DEMOLITION FLOOR PLAN - AREA A - ALTERNATE #05
AD102B	2ND LEVEL - DEMOLITION FLOOR PLAN - AREA B
AD102B.1	2ND LEVEL - DEMOLITION FLOOR PLAN - AREA B - ALTERNATE #05
AD102C	2ND LEVEL - DEMOLITION FLOOR PLAN - AREA C
AD102F	2ND LEVEL - DEMOLITION PLAN - AREA F
AD102F.1	2ND LEVEL - DEMOLITION FLOOR PLAN - AREA F - ALTERNATE #05
AD102G	2ND LEVEL - DEMOLITION FLOOR PLAN - AREA G
AD102G.1	2ND LEVEL - DEMOLITION FLOOR PLAN - AREA G - ALTERNATE #05
AD102G.2	2ND LEVEL - DEMOLITION FLOOR PLAN - AREA G - ALTERNATE #03
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C 002B	SURVEY (FOR INFORMATION ONLY)
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C 004	FIRE SAFETY APPARATUS PLAN
C 005	EROSION CONTROL PLAN
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C 103	GRADING AND PAVING PLAN (AREAS J & L)
C 104	DRAINAGE AREA MAP (AREAS J & L)
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C 203.2	GRADING AND PAVING PLAN (AREA S)
C 204.1	DRAINAGE AREA MAP (AREA S)
C 204.2	DRAINAGE AREA MAP (AREA S)
C 300	DEMOLITION PLAN (AREA B)
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C 503	TRAFFIC SIGNAL & FLASHER PLAN
C 504	TRAFFIC SIGNAL & FLASHER PLAN
C 505	TRAFFIC SIGNAL & FLASHER PLAN
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C 507	TRAFFIC SIGNAL & FLASHER PLAN

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A-101A	1ST LEVEL - FLOOR PLAN - AREA A
A-101A.1	1ST LEVEL - FLOOR PLAN - AREA A - ALTERNATE #05
A-101B	1ST LEVEL - FLOOR PLAN - AREA B
A-101B.1	1ST LEVEL - FLOOR PLAN - AREA B - ALTERNATE #05
A-101C	1ST LEVEL - FLOOR PLAN - AREA C
A-101C.1	1ST LEVEL - FLOOR PLAN - AREA C - ALTERNATE #05
A-101D.1	1ST LEVEL - FLOOR PLAN - AREA D - ALTERNATE #05
A-101E	1ST LEVEL - FLOOR PLAN - AREA E
A-101E.1	1ST LEVEL - FLOOR PLAN - AREA E - ALTERNATE #05
A-101F	1ST LEVEL - FLOOR PLAN - AREA F
A-101F.1	1ST LEVEL - FLOOR PLAN - AREA F - ALTERNATE #05
A-101G	1ST LEVEL - FLOOR PLAN - AREA G
A-101G.1	1ST LEVEL - FLOOR PLAN - AREA G - ALTERNATE #05
A-101G.2	1ST LEVEL - FLOOR PLAN - AREA G - ALTERNATE #03
A-101H	1ST LEVEL - FLOOR PLAN - AREA H
A-101H.1	1ST LEVEL - FLOOR PLAN - AREA H.1 - ALTERNATE #07
A-101J	1ST LEVEL - FLOOR PLAN - AREA J
A-101K	1ST LEVEL - FLOOR PLAN - AREA K
A-101K.1	1ST LEVEL - FLOOR PLAN - AREA K ALTERNATE #01
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A-101M.1	1ST LEVEL - FLOOR PLAN - AREA M ALTERNATE #05
A-101N	1ST LEVEL - FLOOR PLAN - AREA N
A-101N.1	1ST LEVEL - FLOOR PLAN - AREA N - ALTERNATE #05
A-101P.1	1ST LEVEL - FLOOR PLAN - AREA P ALTERNATE #05
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A-102A.1	2ND LEVEL - FLOOR PLAN - AREA A ALTERNATE #05
A-102B	2ND LEVEL - FLOOR PLAN - AREA B
A-102B.1	2ND LEVEL - FLOOR PLAN - AREA B ALTERNATE #05
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A-102F.1	2ND LEVEL - FLOOR PLAN - AREA F - ALTERNATE #05
A-102G	2ND LEVEL - FLOOR PLAN - AREA G
A-102G.1	2ND LEVEL - FLOOR PLAN - AREA G - ALTERNATE #05
A-102G.2	2ND LEVEL - FLOOR PLAN - AREA G - ALTERNATE #03
A-102J	2ND LEVEL - CLEARSTORY PLAN - AREA J
A-102N.1	2ND LEVEL - FLOOR PLAN - AREA N - ALTERNATE #05
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A-201B	1ST LEVEL - CEILING PLAN - AREA B
A-201B.1	1ST LEVEL - CEILING PLAN - AREA B - ALTERNATE #02
A-201C.1	1ST LEVEL - CEILING PLAN - AREA C - ALTERNATE #02
A-201D.1	1ST LEVEL - CEILING PLAN - AREA D - ALTERNATE #02
A-201E.1	1ST LEVEL - CEILING PLAN - AREA E - ALTERNATE #02
A-201F.1	1ST LEVEL - CEILING PLAN - AREA F - ALTERNATE #02
A-201G.1	1ST LEVEL - CEILING PLAN - AREA G - ALTERNATE #02
A-201H	1ST LEVEL - CEILING PLAN - AREA H
A-201J	1ST LEVEL - CEILING PLAN - AREA J
A-201K	1ST LEVEL - CEILING PLAN - AREA K
A-201L	1ST LEVEL - CEILING PLAN - AREA L
A-201L.1	1ST LEVEL - CEILING PLAN - AREA L - ALTERNATE #02
A-201M.1	1ST LEVEL - CEILING PLAN - AREA M - ALTERNATE #02
A-201N.1	1ST LEVEL - CEILING PLAN - AREA N - ALTERNATE #02
A-201P.1	1ST LEVEL - CEILING PLAN - AREA P - ALTERNATE #02
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A-202N.1	2ND LEVEL - CEILING PLAN - AREA N - ALTERNATE #02
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A-627	SECTIONS - WALL
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AF101G	1ST LEVEL - FINISH PLAN - AREA G
AF101G.1	1ST LEVEL - FINISH PLAN - AREA G - ALTERNATE #04
AF101H	1ST LEVEL - FINISH PLAN - AREA H
AF101J	1ST LEVEL - FINISH PLAN - AREA J
AF101K	1ST LEVEL - FINISH PLAN - AREA K
AF101L	1ST LEVEL - FINISH PLAN - AREA L
AF101N.1	1ST LEVEL - FINISH PLAN - AREA N - ALTERNATE #04
AF101P.1	1ST LEVEL - FINISH PLAN - AREA P - ALTERNATE #04
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AF102A.1	2ND LEVEL - FINISH PLAN - AREA A - ALTERNATE #04
AF102B	2ND LEVEL - FINISH PLAN - AREA B
AF102B.1	2ND LEVEL - FINISH PLAN - AREA B - ALTERNATE #04
AF102F.1	2ND LEVEL - FINISH PLAN - AREA F - ALTERNATE #04
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M-101K.1	1ST LEVEL MECHANICAL PLAN - AREA K - ALTERNATE 2
M-101L	1ST LEVEL MECHANICAL PLAN - AREA L
M-101L.1	1ST LEVEL MECHANICAL PLAN - AREA L - ALTERNATE 2
M-101M.1	1ST LEVEL MECHANICAL PLAN - AREA M - ALTERNATE 2
M-101N.1	1ST LEVEL MECHANICAL PLAN - AREA N - ALTERNATE 2
M-101P.1	1ST LEVEL MECHANICAL PLAN - AREA P - ALTERNATE 2
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E-101G.3	1ST LEVEL POWER PLAN - AREA G ALTERNATE #3
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E-103G	ELECTRICAL ROOF PLAN - AREA G
E-103J	ELECTRICAL ROOF PLAN - AREA J
E-103S	ELECTRICAL ROOF PLAN - AREA S
E-201A	1ST LEVEL LIGHTING PLAN - AREA A
E-201A.2	1ST LEVEL LIGHTING PLAN - AREA A - ALTERNATE 2
E-201B	1ST LEVEL LIGHTING PLAN - AREA B
E-201B.2	1ST LEVEL LIGHTING PLAN - AREA B - ALTERNATE 2
E-201C	1ST LEVEL LIGHTING PLAN - AREA C
E-201C.2	1ST LEVEL LIGHTING PLAN - AREA C - ALTERNATE 2
E-201D	1ST LEVEL LIGHTING PLAN - AREA D
E-201D.2	1ST LEVEL LIGHTING PLAN - AREA D - ALTERNATE 2
E-201E.2	1ST LEVEL LIGHTING PLAN - AREA E - ALTERNATE 2
E-201F.2	1ST LEVEL LIGHTING PLAN - AREA F - ALTERNATE 2
E-201G.2	1ST LEVEL LIGHTING PLAN - AREA G - ALTERNATE 2
E-201G.3	1ST LEVEL LIGHTING PLAN - AREA G - ALTERNATE 3
E-201G.8	1ST LEVEL LIGHTING PLAN - AREA G - ALTERNATE 8
E-201H	1ST LEVEL LIGHTING PLAN - AREA H
E-201J	1ST LEVEL LIGHTING PLAN - AREA J
E-201K	1ST LEVEL LIGHTING PLAN - AREA K
E-201L	1ST LEVEL LIGHTING PLAN - AREA L
E-201L.2	1ST LEVEL LIGHTING PLAN - AREA L - ALTERNATE 2
E-201M.2	1ST LEVEL LIGHTING PLAN - AREA M - ALTERNATE 2
E-201N.2	1ST LEVEL LIGHTING PLAN - AREA N - ALTERNATE 2
E-201P.2	1ST LEVEL LIGHTING PLAN - AREA P - ALTERNATE 2
E-201S	1ST LEVEL LIGHTING PLAN - AREA S
E-202A.2	2ND LEVEL LIGHTING PLAN - AREA A - ALTERNATE 2
E-202B	2ND LEVEL LIGHTING PLAN - AREA B
E-202B.2	2ND LEVEL LIGHTING PLAN - AREA B - ALTERNATE 2
E-202C	2ND LEVEL LIGHTING PLAN - AREA C
E-202F.2	2ND LEVEL LIGHTING PLAN - AREA F - ALTERNATE 2
E-202G.2	2ND LEVEL LIGHTING PLAN - AREA G - ALTERNATE 2
E-202G.3	2ND LEVEL LIGHTING PLAN - AREA G - ALTERNATE 3
E-202H	2ND LEVEL LIGHTING PLAN - AREA H
E-202N.2	2ND LEVEL LIGHTING PLAN - AREA N - ALTERNATE 2
E-502	ELECTRICAL RISER DIAGRAM
E-601	ELECTRICAL SYMBOL LEGEND AND CONTACTOR SCHEDULE
E-602	ELECTRICAL DETAILS
E-701	ELECTRICAL PANEL SCHEDULES
E-702	ELECTRICAL PANEL SCHEDULES
E-703	ELECTRICAL PANEL SCHEDULES

PLUMBING

P-000	PLUMBING COVER SHEET
PS-101	PLUMBING SITE PLAN
PD101.1	1ST LEVEL PLUMBING DEMO PLAN - ALTERNATE 2
PD101A	1ST LEVEL PLUMBING DEMO PLAN - AREA A
PD101B	1ST LEVEL PLUMBING DEMO PLAN - AREA B
PD101D	1ST LEVEL PLUMBING DEMO PLAN - AREA D
PD101E	1ST LEVEL PLUMBING DEMO PLAN - AREA E
PD101F	1ST LEVEL PLUMBING DEMO PLAN - AREA F
PD101G	1ST LEVEL PLUMBING DEMO PLAN - AREA G
PD101H	1ST LEVEL PLUMBING DEMO PLAN - AREA H
PD101K	1ST LEVEL PLUMBING DEMO PLAN - AREA K
PD101M	1ST LEVEL PLUMBING DEMO PLAN - AREA M
PD101N	1ST LEVEL PLUMBING DEMO PLAN - AREA N
PD101P	1ST LEVEL PLUMBING DEMO PLAN - AREA P
PD101R	1ST LEVEL PLUMBING DEMO PLAN - AREA R
PD102.1	2ND LEVEL PLUMBING DEMO PLAN - ALTERNATE 2
PD102A	2ND LEVEL PLUMBING DEMO PLAN - AREA A
PD102B	2ND LEVEL PLUMBING DEMO PLAN - AREA B
PD102F	2ND LEVEL PLUMBING DEMO PLAN - AREA F
PD102G	2ND LEVEL PLUMBING DEMO PLAN - AREA G
PD102H	2ND LEVEL PLUMBING DEMO PLAN - AREA H
PU-101A	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA A
PU-101B	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA B
PU-101F	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA F
PU-101G	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA G
PU-101H	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA H
PU-101J	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA J
PU-101K	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA K
PU-101L	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA L
PU-101M	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA M
PU-101Q	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA Q
PU-101S	1ST LEVEL UNDERFLOOR PLUMBING PLAN - AREA S
P-101	1ST LEVEL PLUMBING PLAN - COMPOSITE
P-101A	1ST LEVEL PLUMBING PLAN - AREA A
P-101A.1	1ST LEVEL PLUMBING PLAN - AREA A - ALTERNATE 2
P-101B	1ST LEVEL PLUMBING PLAN - AREA B
P-101B.1	1ST LEVEL PLUMBING PLAN - AREA B - ALTERNATE 2
P-101D.1	1ST LEVEL PLUMBING PLAN - AREA D - ALTERNATE 2
P-101E.1	1ST LEVEL PLUMBING PLAN - AREA E - ALTERNATE 2
P-101F	1ST LEVEL PLUMBING PLAN - AREA F
P-101F.1	1ST LEVEL PLUMBING PLAN - AREA F - ALTERNATE 2
P-101G	1ST LEVEL PLUMBING PLAN - AREA G
P-101G.1	1ST LEVEL PLUMBING PLAN - AREA G - ALTERNATE 2
P-101H	1ST LEVEL PLUMBING PLAN - AREA H
P-101J	1ST LEVEL PLUMBING PLAN - AREA J
P-101K	1ST LEVEL PLUMBING PLAN - AREA K
P-101L	1ST LEVEL PLUMBING PLAN - AREA L
P-101L.1	1ST LEVEL PLUMBING PLAN - AREA L - ALTERNATE 2
P-101M	1ST LEVEL PLUMBING PLAN - AREA M
P-101N.1	1ST LEVEL PLUMBING PLAN - AREA N - ALTERNATE 2
P-101P.1	1ST LEVEL PLUMBING PLAN - AREA P - ALTERNATE 2
P-101Q	1ST LEVEL PLUMBING PLAN - AREA Q
P-101S	1ST LEVEL PLUMBING PLAN - AREA S
P-102	2ND LEVEL PLUMBING PLAN - COMPOSITE
P-102A	2ND LEVEL PLUMBING PLAN - AREA A
P-102A.1	2ND LEVEL PLUMBING PLAN - AREA A ALTERNATE #1
P-102B	2ND LEVEL PLUMBING PLAN - AREA B
P-102B.1	2ND LEVEL PLUMBING PLAN - AREA B ALTERNATE #1
P-102F	2ND LEVEL PLUMBING PLAN - AREA F
P-102F.1	2ND LEVEL PLUMBING PLAN - AREA F ALTERNATE #1
P-102G	2ND LEVEL PLUMBING PLAN - AREA G
P-102G.1	2ND LEVEL PLUMBING PLAN - AREA G ALTERNATE #1
P-102H	2ND LEVEL PLUMBING PLAN - AREA H
P-102J	2ND LEVEL PLUMBING PLAN - AREA J
P-102K	2ND LEVEL PLUMBING PLAN - AREA K
P-102L	2ND LEVEL PLUMBING PLAN - AREA L
P-102S	2ND LEVEL PLUMBING PLAN - AREA S
P-301	PLUMBING ROOF PLAN
P-401	ENLARGED PLANS AREA B
P-402	ENLARGED PLANS AREA B
P-403	ENLARGED PLANS AREA G
P-404	ENLARGED PLANS AREA G1
P-405	ENLARGED PLANS AREA G2
P-500	PLUMBING EQUIPMENT SCHEDULE
P-601	PLUMBING DETAILS
P-602	PLUMBING DETAILS
P-603	PLUMBING DETAILS
P-701	PLUMBING RISER DIAGRAMS AREA B - DOMESTIC WATER
P-702	PLUMBING RISER DIAGRAM AREA B - WASTE & VENT
P-703	PLUMBING RISER DIAGRAM AREA B - NATURAL GAS

TECHNOLOGY

T-001	TECHNOLOGY SYSTEM NOTES AND LEGENDS
TD-101J	1ST LEVEL TECHNOLOGY DEMO PLAN - AREA J
TD-101K	1ST LEVEL FIRE ALARM DEMO PLAN - AREA K
TF-101A.1	1ST LEVEL FIRE ALARM PLAN - AREA A ATLERNATE 2
TF-101B	1ST LEVEL FIRE ALARM PLAN - AREA B
TF-101B.1	1ST LEVEL FIRE ALARM PLAN - AREA B ATLERNATE 2
TF-101C.1	1ST LEVEL FIRE ALARM PLAN - AREA C ATLERNATE 2
TF-101D.1	1ST LEVEL FIRE ALARM PLAN - AREA D ATLERNATE 2
TF-101E.1	1ST LEVEL FIRE ALARM PLAN - AREA E ATLERNATE 2
TF-101F.1	1ST LEVEL FIRE ALARM PLAN - AREA F ATLERNATE 2
TF-101G	1ST LEVEL FIRE ALARM PLAN - AREA G
TF-101G.1	1ST LEVEL FIRE ALARM PLAN - AREA G ATLERNATE 2
TF-101G.2	1ST LEVEL FIRE ALARM PLAN - AREA G ATLERNATE 3
TF-101J	1ST LEVEL FIRE ALARM PLAN - AREA J
TF-101K	1ST LEVEL FIRE ALARM PLAN - AREA K
TF-101K.2	1ST LEVEL FIRE ALARM PLAN - AREA K ATLERNATE 2
TF-101L	1ST LEVEL FIRE ALARM PLAN - AREA L
TF-101L.1	1ST LEVEL FIRE ALARM PLAN - AREA L ATLERNATE 2
TF-101M.1	1ST LEVEL FIRE ALARM PLAN - AREA M ATLERNATE 2
TF-101N.1	1ST LEVEL FIRE ALARM PLAN - AREA N ATLERNATE 2
TF-101P.1	1ST LEVEL FIRE ALARM PLAN - AREA P ATLERNATE 2
TF-101S	1ST LEVEL FIRE ALARM PLAN - AREA S
TF-102A.1	2ND LEVEL FIRE ALARM PLAN - AREA A ATLERNATE 2
TF-102B	2ND LEVEL FIRE ALARM PLAN - AREA B
TF-102B.1	2ND LEVEL FIRE ALARM PLAN - AREA B ATLERNATE 2
TF-102C.1	2ND LEVEL FIRE ALARM PLAN - AREA C ATLERNATE 2
TF-102D.1	2ND LEVEL FIRE ALARM PLAN - AREA D ATLERNATE 2
TF-102F.1	2ND LEVEL FIRE ALARM PLAN - AREA F ATLERNATE 2
TF-102G	2ND LEVEL FIRE ALARM PLAN - AREA G
TF-102G.1	2ND LEVEL FIRE ALARM PLAN - AREA G ATLERNATE 2
TF-102G.2	2ND LEVEL FIRE ALARM PLAN - AREA G ATLERNATE 3
TF-102N.1	2ND LEVEL FIRE ALARM PLAN - AREA N ATLERNATE 2
TN-101A	1ST LEVEL TECHNOLOGY PLAN - AREA A
TN-101B	1ST LEVEL TECHNOLOGY PLAN - AREA B
TN-101B.1	1ST LEVEL TECHNOLOGY PLAN - AREA B - ALTERNATE 2
TN-101E.2	1ST LEVEL TECHNOLOGY PLAN - AREA E - ALTERNATE 5
TN-101G	1ST LEVEL TECHNOLOGY PLAN - AREA G
TN-101G.1	1ST LEVEL TECHNOLOGY PLAN - AREA G - ALTERNATE 2
TN-101G.2	1ST LEVEL TECHNOLOGY PLAN - AREA G - ALTERNATE 3
TN-101G.3	1ST LEVEL TECHNOLOGY PLAN - AREA G - ALTERNATE 5
TN-101J	1ST LEVEL TECHNOLOGY PLAN - AREA J
TN-101K	1ST LEVEL TECHNOLOGY PLAN - AREA K
TN-101L	1ST LEVEL TECHNOLOGY PLAN - AREA L
TN-101L.1	1ST LEVEL TECHNOLOGY PLAN - AREA L - ALTERNATE 2
TN-101P.2	1ST LEVEL TECHNOLOGY PLAN - AREA P - ALTERNATE 5
TN-101S	1ST LEVEL TECHNOLOGY PLAN - AREA S
TN-101T	1ST LEVEL TECHNOLOGY PLAN - AREA T
TN-102A.1	2ND LEVEL TECHNOLOGY PLAN - AREA A - ALTERNATE 2
TN-102A.2	2ND LEVEL TECHNOLOGY PLAN - AREA A - ALTERNATE 5
TN-102B	2ND LEVEL TECHNOLOGY PLAN - AREA B
TN-102B.1	2ND LEVEL TECHNOLOGY PLAN - AREA B - ALTERNATE 2
TN-102F.2	2ND LEVEL TECHNOLOGY PLAN - AREA F - ALTERNATE 5
TN-102G.1	2ND LEVEL TECHNOLOGY PLAN - AREA G - ALTERNATE 2
TN-102G.2	2ND LEVEL TECHNOLOGY PLAN - AREA G - ALTERNATE 3
TN-102G.3	2ND LEVEL TECHNOLOGY PLAN - AREA G - ALTERNATE 5
TN-102N.1	2ND LEVEL TECHNOLOGY PLAN - AREA N - ALTERNATE 2
TS-101	TECHNOLOGY SITE PLAN

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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
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ISSUE FOR PROPOSAL
CSP: 2025-09

KEY PLAN

DISCIPLINE

GREGORY A. PRINCE
27199
12/18/2024

CLIENT
HUMBLE ISD

DATE
12/18/2024

PROJECT NUMBER
220537

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	1/9/2025
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER **n/a**

DRAWING INDEX

G-001

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

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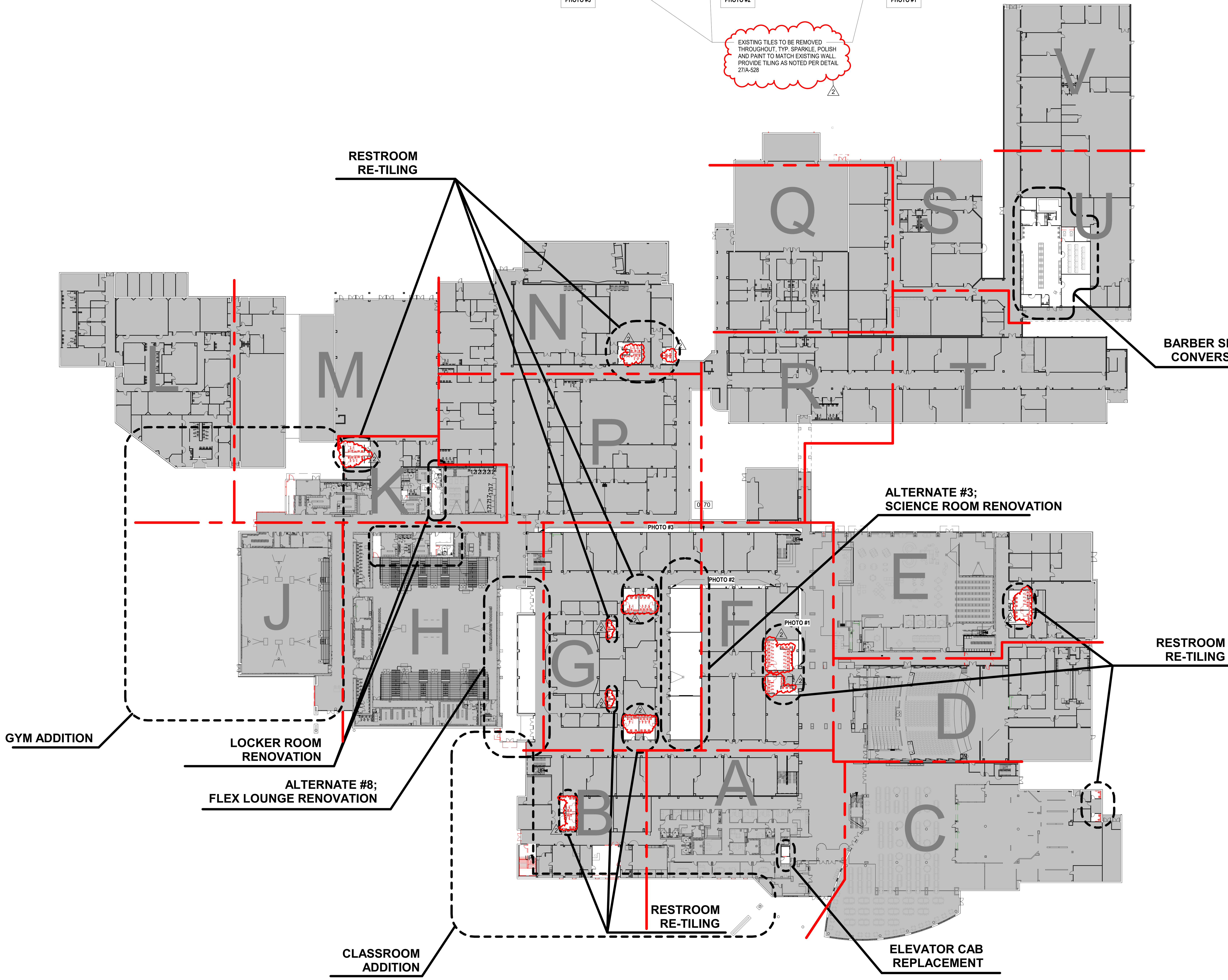
PHOTO #3


PHOTO #2


PHOTO #1



06 1ST LEVEL - DEMO PLAN - COMPOSITE
1" = 40'-0"

GENERAL DEMOLITION NOTES

1. 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.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. 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.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQURED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. 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 AND CLEAN CONDITION.
24. 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.
25. 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 AT NO COST TO THE OWNER.
26. 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.
27. 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.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES 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 DOWELLED INTO EXITISTING 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 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. 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.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. 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. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. 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
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. 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.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMO LEGEND

- INTERIOR FLOOR FINISH AND BASE TO BE DEMOLISHED
- INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED
- AREA TO BE COMPLETLY DEMOLISHED
- EXISTING CEILINGS TO REMAIN
- DEMO WALL
- EXISTING WALL TO REMAIN
- EXISTING DOOR

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0170	REMOVE EXISTING WALL TILING ALONG HALLWAY. TAPE, SPARKLE & PREP SURFACE TO RECEIVE NEW WALL TILE.

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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

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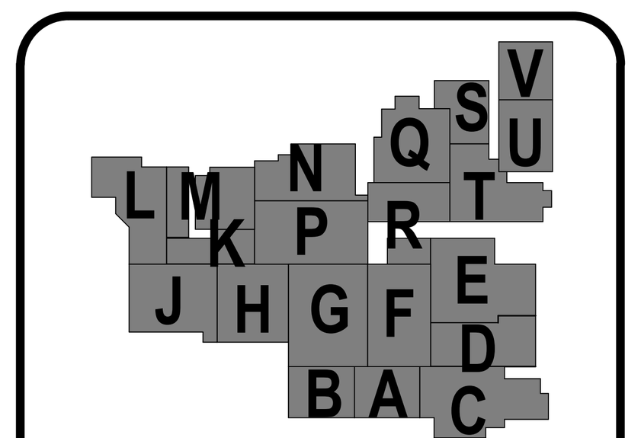
ISSUE FOR PROPOSAL
CSP: 2025-09



KEY PLAN
NORTH PLAN TRUE

DISCIPLINE
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - DEMO PLAN - COMPOSITE

AD001

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

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Plot Stamp: 1/16/2025 5:29:17 PM

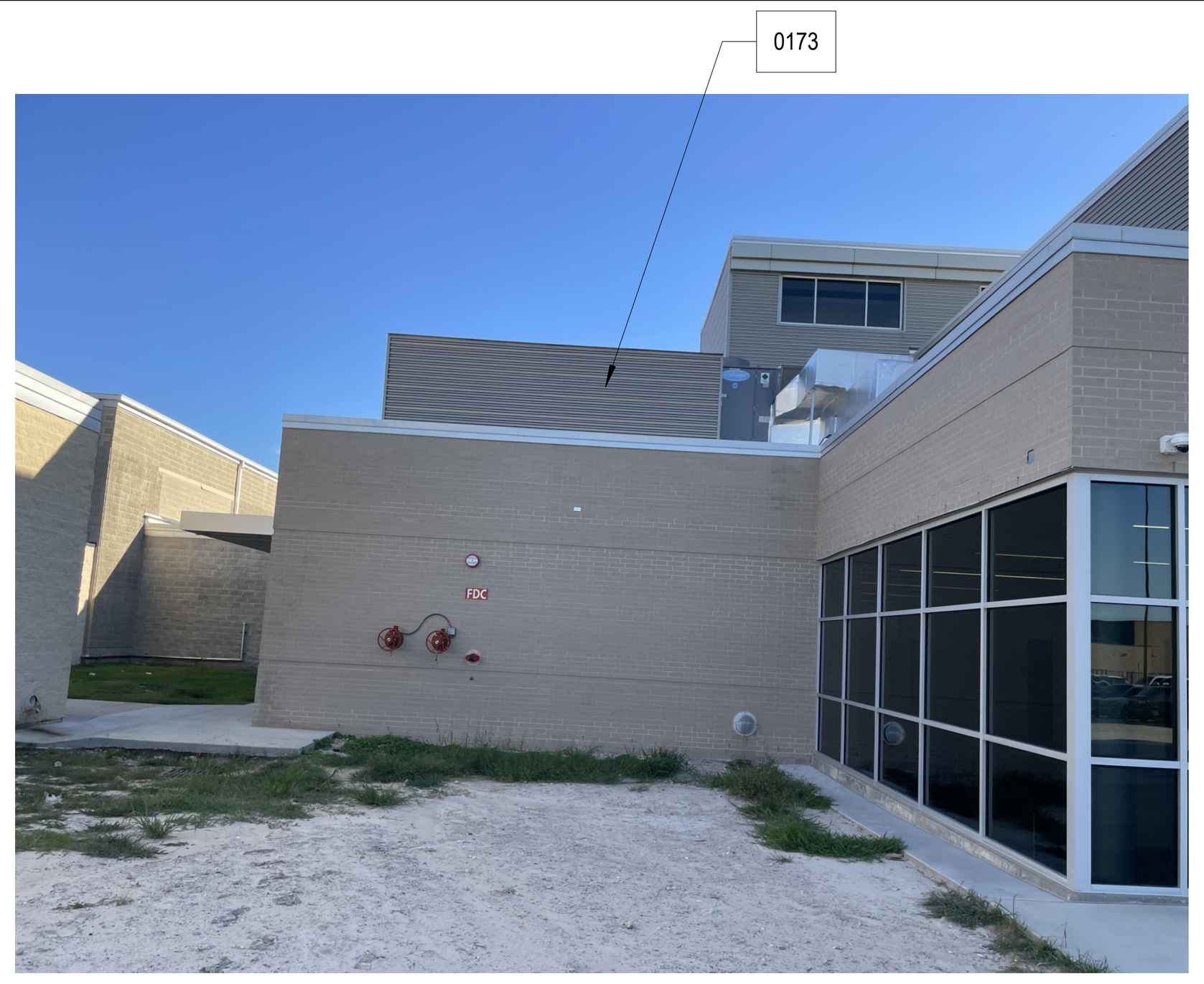
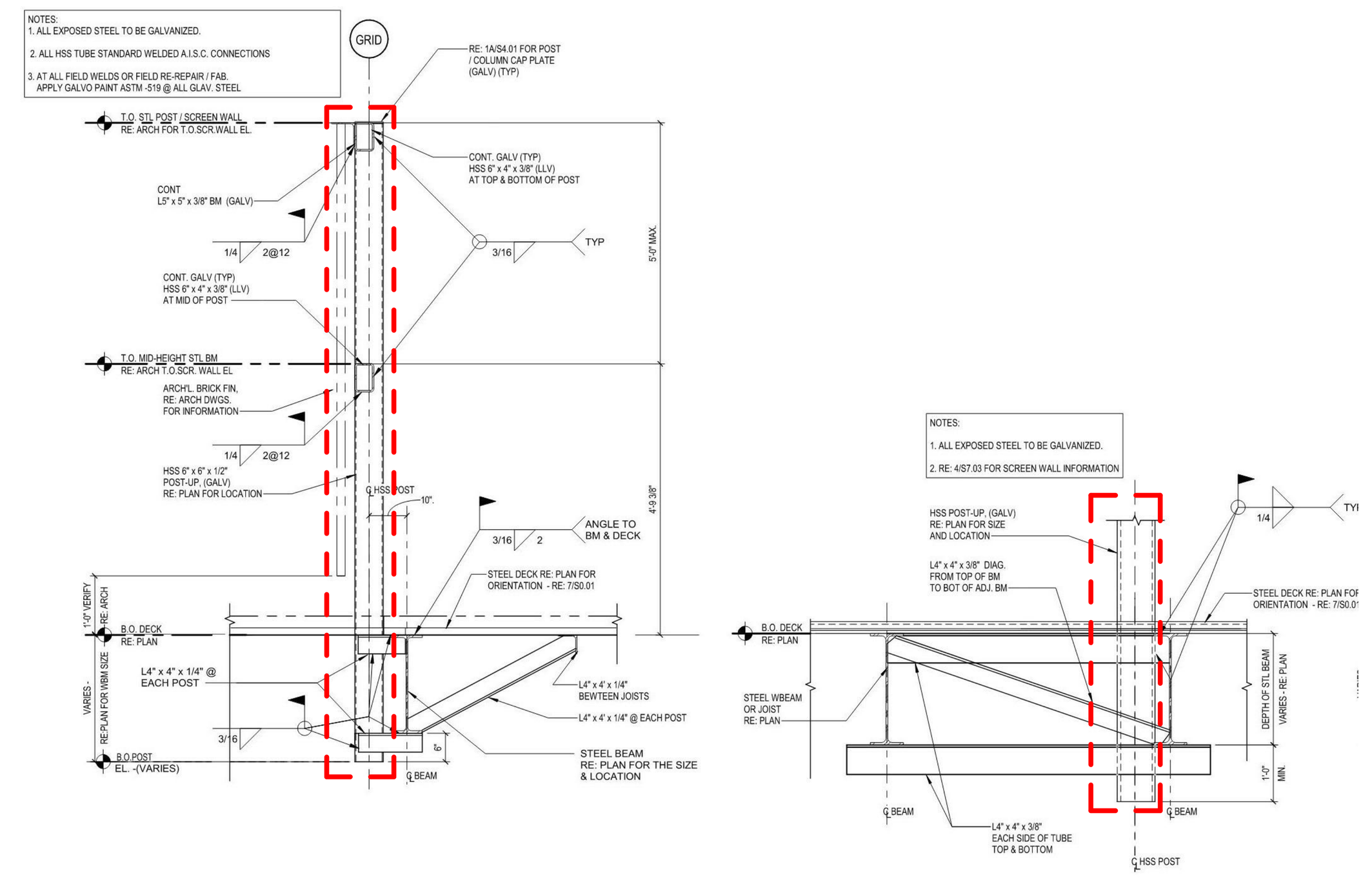
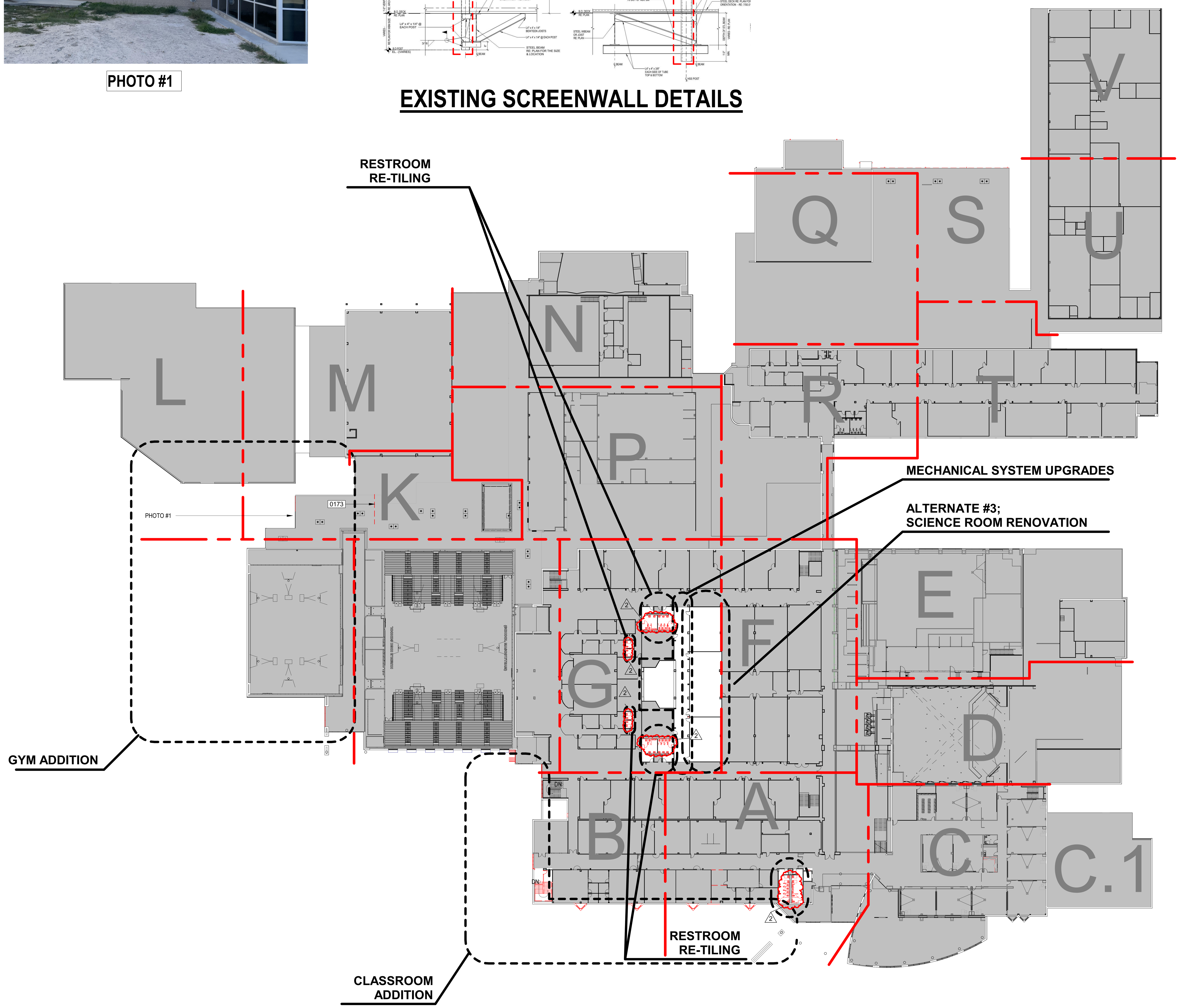


PHOTO #1



EXISTING SCREENWALL DETAILS



06 2ND LEVEL - DEMO PLAN - COMPOSITE
1" = 40'-0"

GENERAL DEMOLITION NOTES

1. 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.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. 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.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQURED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. 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 AND CLEAN CONDITION.
24. 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.
25. 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 AT NO COST TO THE OWNER.
26. 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.
27. 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.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES 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 DOWELLED INTO EXITISTING 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 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. 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.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. 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. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. 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
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. 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.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMO LEGEND

INTERIOR FLOOR FINISH AND BASE TO BE DEMOLISHED

INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED

AREA TO BE COMPLETLY DEMOLISHED

EXISTING CEILINGS TO REMAIN

DEMO WALL

EXISTING WALL TO REMAIN

EXISTING DOOR

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0173	DEMOLISH EXISTING METAL SCREEN WALL & ASSOCIATED STRUCTURE IN ENTIRETY. INFILL VACANT POST HOLES WITH NEW METAL DECK & ROOFING

PBK

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713-961-4571 F
TX Firm: F-1608

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MEPT
LEAF ENGINEERS
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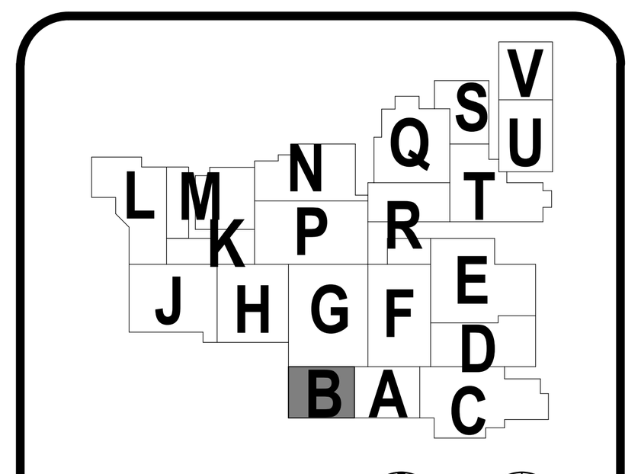
LANDSCAPE
GREENSCAPE ASSOCIATES
T 713-940-3300

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT, HARRIS COUNTY



KEY PLAN
NORTH PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT, GREGORY A. PRINCE, 27199, STATE OF TEXAS
12/18/2024

CLIENT
HUMBLE ISD

DATE 12/18/2024 | PROJECT NUMBER 220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

2ND LEVEL - DEMO PLAN - COMPOSITE

AD002

1ST LEVEL - DEMOLITION FLOOR PLAN - AREA A
AD101A
FOR BLUEBEAM LABELING/OCR:

06 1ST LEVEL - DEMO PLAN - AREA A
1/8" = 1'-0"

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DEMO LEGEND

- INTERIOR FLOOR FINISH TO BE DEMOLISHED
- INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED
- AREA TO BE COMPLETLY DEMOLISHED
- EXISTING CEILING TO REMAIN
- DEMO WALL
- EXISTING WALL TO REMAIN
- DEMO EXISTING DOOR. EXISTING FRAME TO REMAIN AND BE REPAINTED. COLOR TO BE CHOSEN BY ARCHITECT

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0115	DEMOLISH EXISTING WINDOW. INFILL WITH CMU. PATCH/PREP/PAINT/REPAIR WALLS THAT ARE EXISTING TO REMAIN AS REQUIRED TO MATCH SCHEDULED FINISH
0172	REMOVE AND REPLACE EXISTING ELEVATOR MACHINE CAB, MOTOR,ELECTRICAL WIRING AND ALL OTHER EXISTING ELEVATOR COMPONENTS
0911	SPACKLE WALL AND PREPARE FOR PAINT FINISH THROUGHOUT. RE: INTERIOR ELEVATION 27/A-528, TYP.

2

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T 713-940-3300

LANDSCAPE
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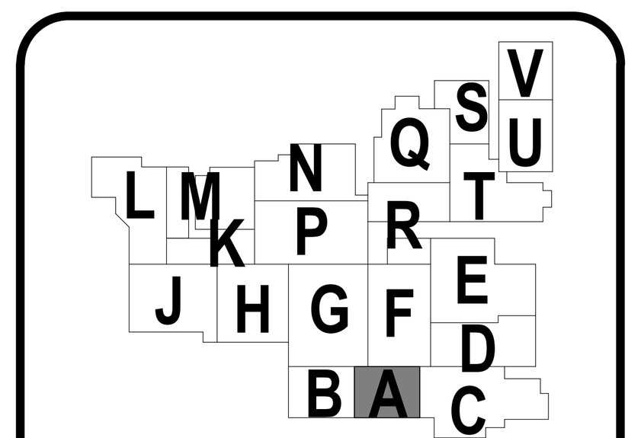
HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO
17700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - DEMOLITION FLOOR PLAN - AREA A

AD101A

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt
CHECKED BY: Checker
DRAWN BY: Author
Plot Stamp: 1/17/2025 10:03:42 AM

REMOVE OR RELOCATE EXISTING DEVICE, TYP. RE: MEP DWGS

REMOVE OR RELOCATE EXISTING APPURTENANCES. RE: MEP DWGS

REMOVE OR RELOCATE EXISTING DEVICE, TYP. RE: MEP DWGS

RELOCATE EXISTING SIGN. RE: ARCH. DWGS & ELEC. DWGS. PLUG & PATCH ALL HOLES, TYP.

REMOVE EXISTING LIGHT FIXTURES, TYP. RE: ELEC. DWGS

PHOTO #1

PHOTO #2

REMOVE OR RELOCATE EXISTING APPURTENANCES. RE: MEP DWGS

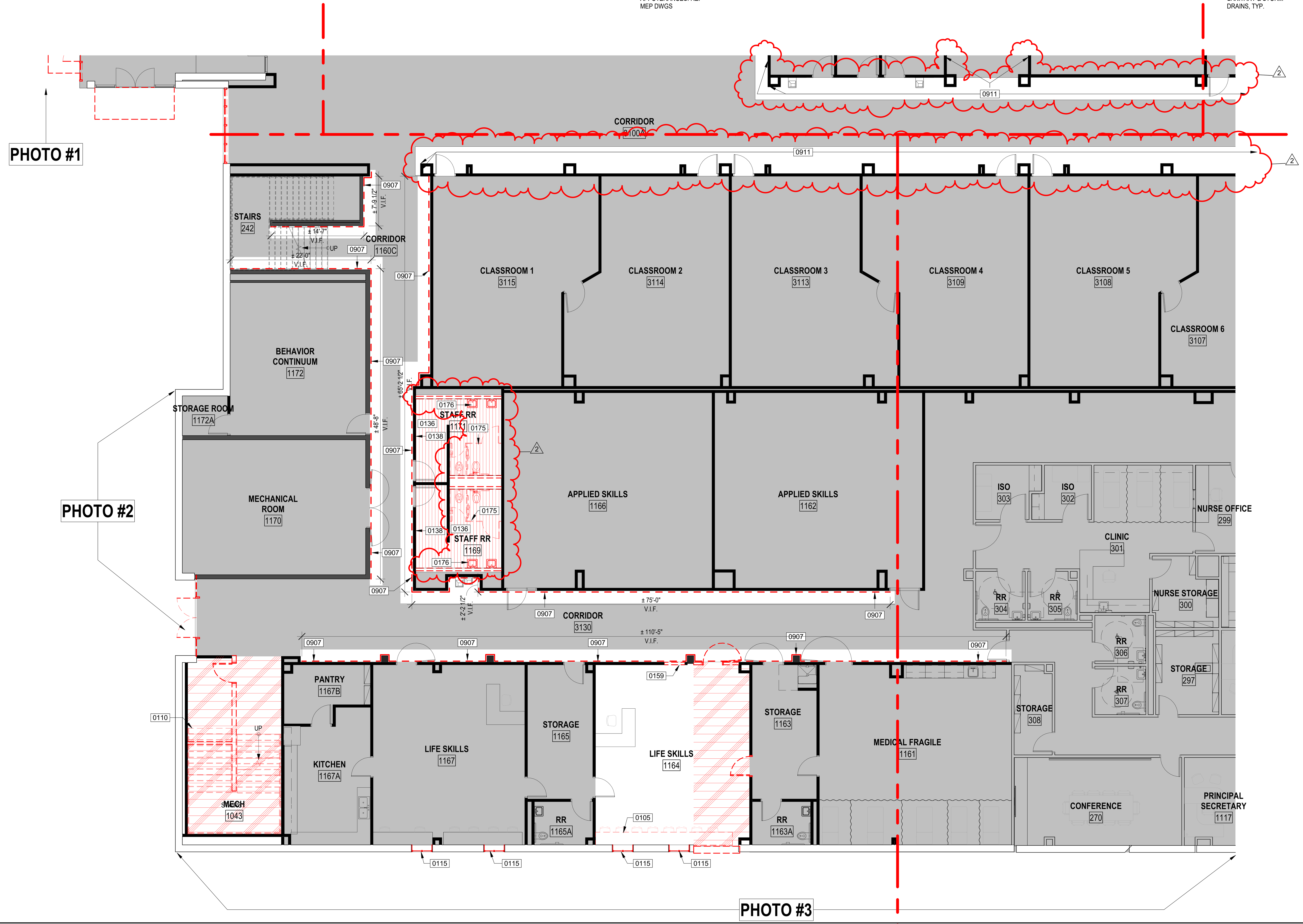
REMOVE OR RELOCATE EXISTING DEVICES, TYP. COORDINATE WITH MEP DWGS. AND WITH OWNER

REMOVE EXIST. WINDOWS, PLUS SUPPORTING WALLS AND SOFFIT. RE: ARCH DWGS. & STRUCT. DWGS.

PHOTO #3

REMOVE EXISTING SHRUBS, TYP.

RE: CIVIL DWGS. FOR INFORMATION ON SANITARY & STORM DRAINS, TYP.



06 1ST LEVEL - DEMO PLAN - AREA B

1/8" = 1'-0"

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10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQURED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. 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 AND CLEAN CONDITION.
24. 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.
25. 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 AT NO COST TO THE OWNER.
26. 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.
27. 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.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES 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 DOWELLED INTO EXITISTING 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 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. 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.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. 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. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. 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
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. 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.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMO LEGEND

- INTERIOR FLOOR FINISH TO BE DEMOLISHED
- INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED
- AREA TO BE COMPLETLY DEMOLISHED
- EXISTING CEILING TO REMAIN
- DEMO WALL
- EXISTING WALL TO REMAIN
- DEMO EXISTING DOOR. EXISTING FRAME TO REMAIN AND BE REPAINTED. COLOR TO BE CHOSEN BY ARCHITECT

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0105	DEMOLISH EXISTING CASEWORK. PATCH/PREP/PAINT/REPAIR FLOORS/WALLS THAT ARE EXISTING TO REMAIN AS REQUIRED TO MATCH SCHEDULED FINISHES
0110	DEMOLISH EXISTING STAIRS, PATCH /REPAIR/PREP FLOOR AS NECCESSARY FOR NEW FLOORING
0115	DEMOLISH EXISTING WINDOW. INFILL WITH CMU. PATCH/PREP/PAINT/REPAIR WALLS THAT ARE EXISTING TO REMAIN AS REQUIRED TO MATCH SCHEDULED FINISH
0136	REMOVE EXISTING FLOOR FINISH, PREP DEMOED AREA FOR NEW FLOORING; COOR. W/ABATEMENT AS NEEDED
0138	REMOVE EXISTING WALL TILE THROUGHOUT. REMOVE ALL MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS THROUGHOUT RESTROOM, TYP. PREP/REPAIR WALL AS REQUIRED FOR SCHEDULED FINISH
0159	DEMOLISH PORTION OF WALL FOR NEW DOOR OPENING.
0175	REMOVE AND REPLACE EXISTING RESTROOM PARTITIONS, EXISTING HANDRAILS, TOILET PAPER DISPENSERS & SANITARY NAPKIN DISPENSERS . NEW PARTITION COLOR TO BE SELECTED BY ARCHITECT
0176	REMOVE EXISTING PLUMBING FIXTURES THROUGHTOUT RESTROOM, TYP.
0907	REMOVE EXISTING VINYL WALL COVERING THROUGHOUT, TYP. SPACKLE WALL AND PREPARE FOR PAINT FINISH RE: INTERIOR ELEVATION 27/A-528, TYP.
0911	SPACKLE WALL AND PREPARE FOR PAINT FINISH THROUGHOUT. RE: INTERIOR ELEVATION 27/A-528, TYP..

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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT - HUMBLE, TEXAS - HARRIS COUNTY

KEY PLAN

L M K N P Q R S T U V J H G F E D C B A

NORTH PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT - GREGORY A. PRINCE - 27199 - STATE OF TEXAS

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - DEMOLITION FLOOR PLAN - AREA B

AD101B

CHECKED BY: Checker
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Plot Stamp: 1/17/2025 9:55:23 AM

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

1ST LEVEL - DEMOLITION FLOOR PLAN - AREA B
AD101B
FOR BLUEBEAM LABELING OCR:

FOR BLUEBEAM LABELING OCR:
AD101C
1ST LEVEL - DEMOLITION FLOOR PLAN - AREA C

GENERAL DEMOLITION NOTES

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DEMO LEGEND

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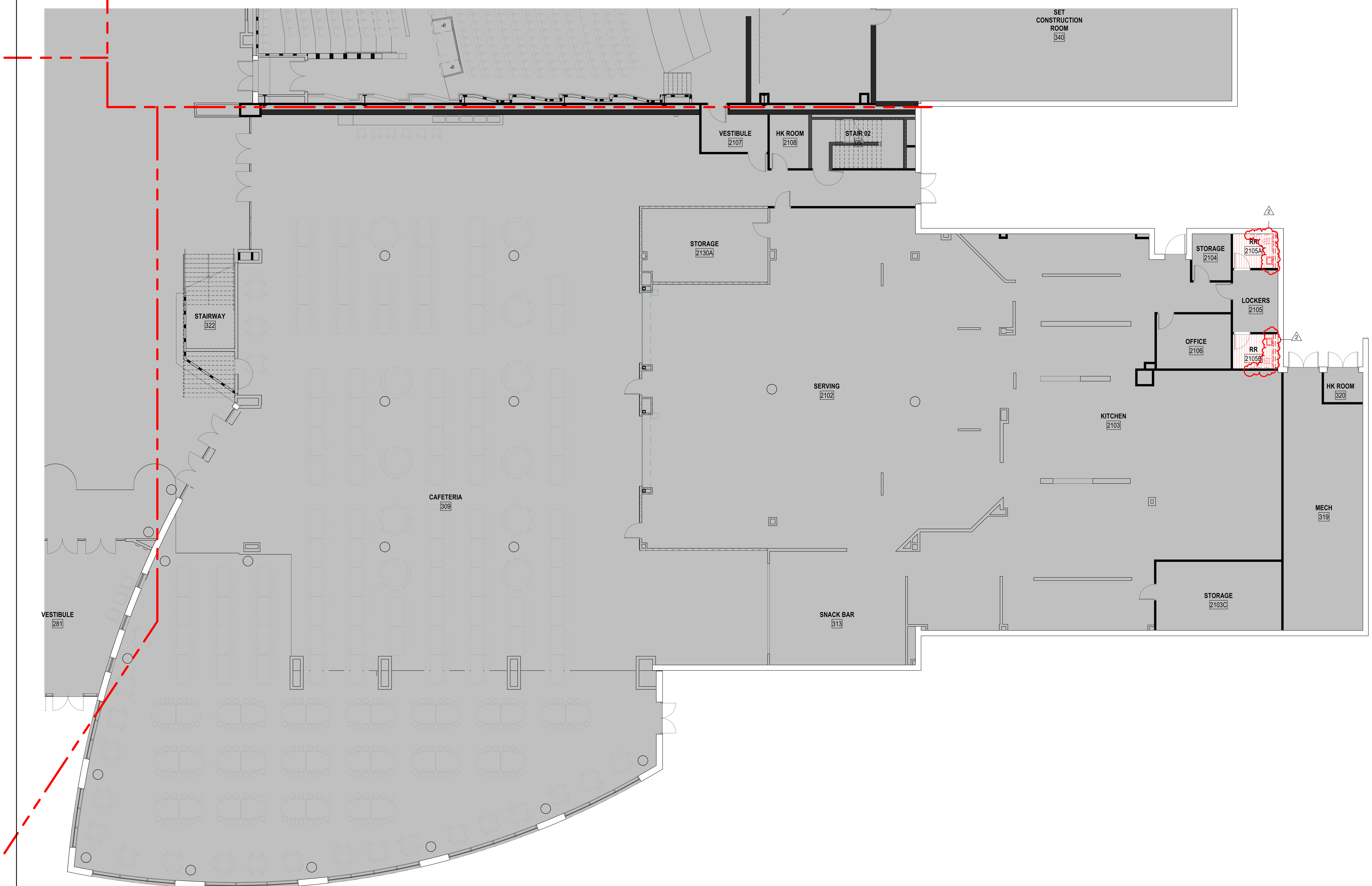
- INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED
- AREA TO BE COMPLETLY DEMOLISHED
- EXISTING BUILDING TO REMAIN
- DEMO WALL
- EXISTING WALL TO REMAIN
- DEMO DOOR



06 1ST LEVEL - DEMO PLAN - AREA C
1/8" = 1'-0"

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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO
17700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - DEMOLITION FLOOR PLAN - AREA C

AD101C

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

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19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. 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 AND CLEAN CONDITION.
24. 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.
25. 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 AT NO COST TO THE OWNER.
26. MAINTAIN ANY AND ALL EXISTING FIRE-RATED ASSEMBLIES THAT ARE TO REMAIN, AND THEIR A SSOCIATED 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.
27. 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.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES 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 DOWELLED INTO EXITISTING 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 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. 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.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. 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. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. 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
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. 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.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMO LEGEND

- INTERIOR FLOOR FINISH TO BE DEMOLISHED
- INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED
- AREA TO BE COMPLETLY DEMOLISHED
- EXISTING BUILDING TO REMAIN
- DEMO WALL
- EXISTING WALL TO REMAIN
- DEMO DOOR

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0136	REMOVE EXISTING FLOOR FINISH, PREP DEMOED AREA FOR NEW FLOORING; COOR. W/ABATEMENT AS NEEDED
0138	REMOVE EXISTING WALL TILE THROUGHOUT. REMOVE ALL MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS THROUGHOUT RESTROOM, TYP. PREP/REPAIR WALL AS REQUIRED FOR SCHEDULED FINISH
0175	REMOVE AND REPLACE EXISTING RESTROOM PARTITIONS, EXISTING HANDRAILS, TOILET PAPER DISPENSERS & SANITARY NAPKIN DISPENSERS . NEW PARTITION COLOR TO BE SELECTED BY ARCHITECT
0176	REMOVE EXISTING PLUMBING FIXTURES THROUGHTOUT RESTROOM, TYP.

2

1 1ST LEVEL - DEMO PLAN - AREA E
1/8" = 1'-0"

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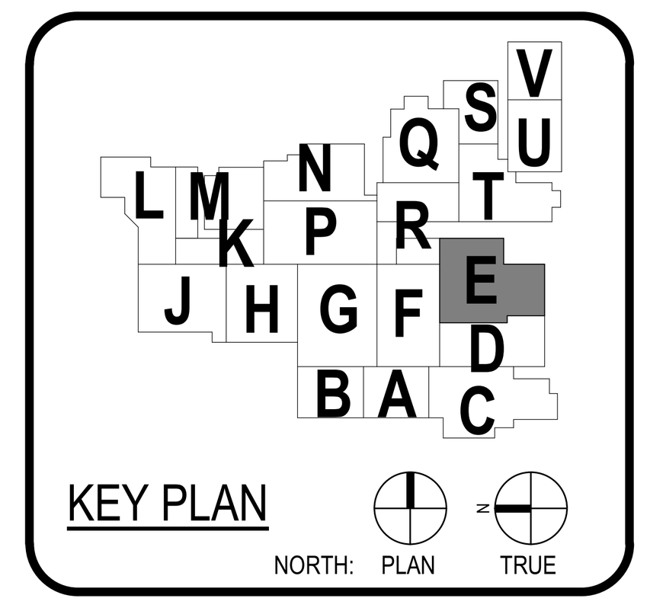
HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT · HARRIS COUNTY · HUMBLE, TEXAS



DISCIPLINE

REGISTERED ARCHITECT · GREGORY A. PRINCE · 27199 · STATE OF TEXAS

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - DEMOLITION FLOOR PLAN - AREA E

AD101E

1ST LEVEL - DEMOLITION FLOOR PLAN - AREA E
AD101E
FOR BLUEBEAM LABELING OCR:
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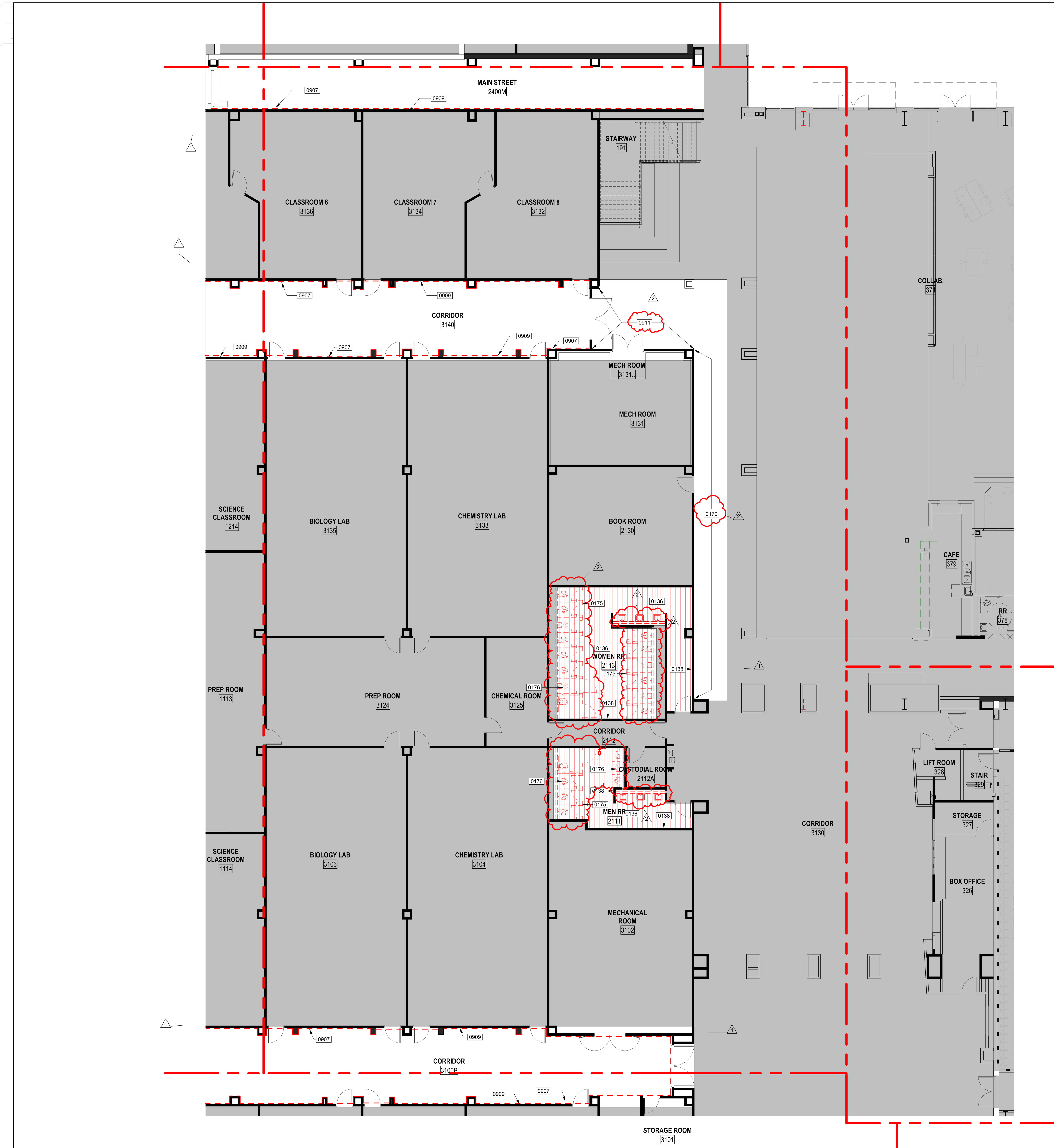

1 1ST LEVEL - DEMO PLAN - AREA F
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. 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.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. 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.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQURED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. 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 AND CLEAN CONDITION.
24. 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.
25. 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 AT NO COST TO THE OWNER.
26. 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.
27. 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.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES 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 DOWELLED INTO EXITISTING 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 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. 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.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. 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. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. 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
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. 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.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMO LEGEND

- INTERIOR FLOOR FINISH TO BE DEMOLISHED
- INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED
- AREA TO BE COMPLETLY DEMOLISHED
- EXISTING CEILING TO REMAIN
- DEMO WALL
- EXISTING WALL TO REMAIN
- DEMO EXISTING DOOR, EXISTING FRAME TO REMAIN AND BE REPAINTED. COLOR TO BE CHOSEN BY ARCHITECT

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0136	REMOVE EXISTING FLOOR FINISH, PREP DEMOED AREA FOR NEW FLOORING; COOR. W/ABATEMENT AS NEEDED
0138	REMOVE EXISTING WALL TILE THROUGHOUT. REMOVE ALL MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS THROUGHOUT RESTROOM, TYP. PREP/REPAIR WALL AS REQUIRED FOR SCHEDULED FINISH
0170	REMOVE EXISTING WALL TILING ALONG HALLWAY. TAPE, SPARKLE & PREP SURFACE TO RECEIVE NEW WALL TILE.
0175	REMOVE AND REPLACE EXISTING RESTROOM PARTITIONS, EXISTING HANDRAILS, TOILET PAPER DISPENSERS & SANITARY NAPKIN DISPENSERS . NEW PARTITION COLOR TO BE SELECTED BY ARCHITECT
0176	REMOVE EXISTING PLUMBING FIXTURES THROUGHTOUT RESTROOM, TYP.
0907	REMOVE EXISTING VINYL WALL COVERING THROUGHOUT, TYP. SPACKLE WALL AND PREPARE FOR PAINT FINISH RE: INTERIOR ELEVATION 27/A-528, TYP.
0909	REMOVE AND REPLACE EXISTING VINYL WALL BASE THROUGHOUT, TYP.
0911	SPACKLE WALL AND PREPARE FOR PAINT FINISH THROUGHOUT. RE: INTERIOR ELEVATION 27/A-528, TYP.

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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
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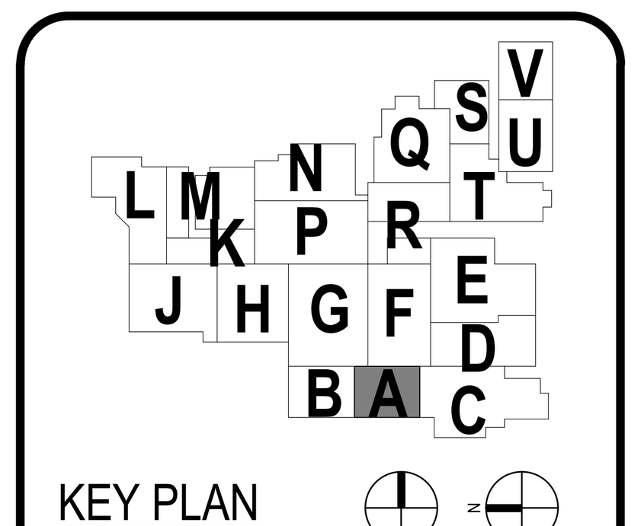
ISSUE FOR PROPOSAL
CSP: 2025-09

KEY PLAN



DISCIPLINE

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	1/9/2025
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - DEMOLITION FLOOR PLAN - AREA F

AD101F

FOR BLUEBEAM LABELING OCR:
AD101F
1ST LEVEL - DEMOLITION FLOOR PLAN - AREA F

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

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Author
Plot Stamp:
1/17/2025 10:15:24 AM

FOR BLUEBEAM LABELING OCR:
AD101G
1ST LEVEL - DEMOLITION FLOOR PLAN - AREA G

06 1ST LEVEL - DEMO PLAN - AREA G
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. 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.
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19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. 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 AND CLEAN CONDITION.
24. 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.
25. 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 AT NO COST TO THE OWNER.
26. 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.
27. 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.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES 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 DOWELLED INTO EXITISTING 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 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. 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.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. 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. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. 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
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. 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.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMO LEGEND

- INTERIOR FLOOR FINISH TO BE DEMOLISHED
- INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED
- AREA TO BE COMPLETLY DEMOLISHED
- EXISTING CEILING TO REMAIN
- DEMO WALL
- EXISTING WALL TO REMAIN
- DEMO EXISTING DOOR. EXISTING FRAME TO REMAIN AND BE REPAINTED. COLOR TO BE CHOSEN BY ARCHITECT

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0136	REMOVE EXISTING FLOOR FINISH, PREP DEMOED AREA FOR NEW FLOORING; COOR. W/ABATEMENT AS NEEDED
0138	REMOVE EXISTING WALL TILE THROUGHOUT. REMOVE ALL MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS THROUGHOUT RESTROOM, TYP. PREP/REPAIR WALL AS REQUIRED FOR SCHEDULED FINISH
0170	REMOVE EXISTING WALL TILING ALONG HALLWAY. TAPE, SPARKLE & PREP SURFACE TO RECEIVE NEW WALL TILE.
0175	REMOVE AND REPLACE EXISTING RESTROOM PARTITIONS, EXISTING HANDRAILS, TOILET PAPER DISPENSERS & SANITARY NAPKIN DISPENSERS . NEW PARTITION COLOR TO BE SELECTED BY ARCHITECT
0176	REMOVE EXISTING PLUMBING FIXTURES THROUGHTOUT RESTROOM, TYP.
0911	SPACKLE WALL AND PREPARE FOR PAINT FINISH THROUGHOUT. RE: INTERIOR ELEVATION 27/A-528, TYP.

2

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MEPT
LEAF ENGINEERS
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LANDSCAPE
GREENSCAPE ASSOCIATES
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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

17700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT · HARRIS COUNTY

KEY PLAN
L M K N P Q R S T U V J H G F E D C B A
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT · GREGORY A. PRINCE · 27199 · STATE OF TEXAS
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - DEMOLITION FLOOR PLAN - AREA G

AD101G

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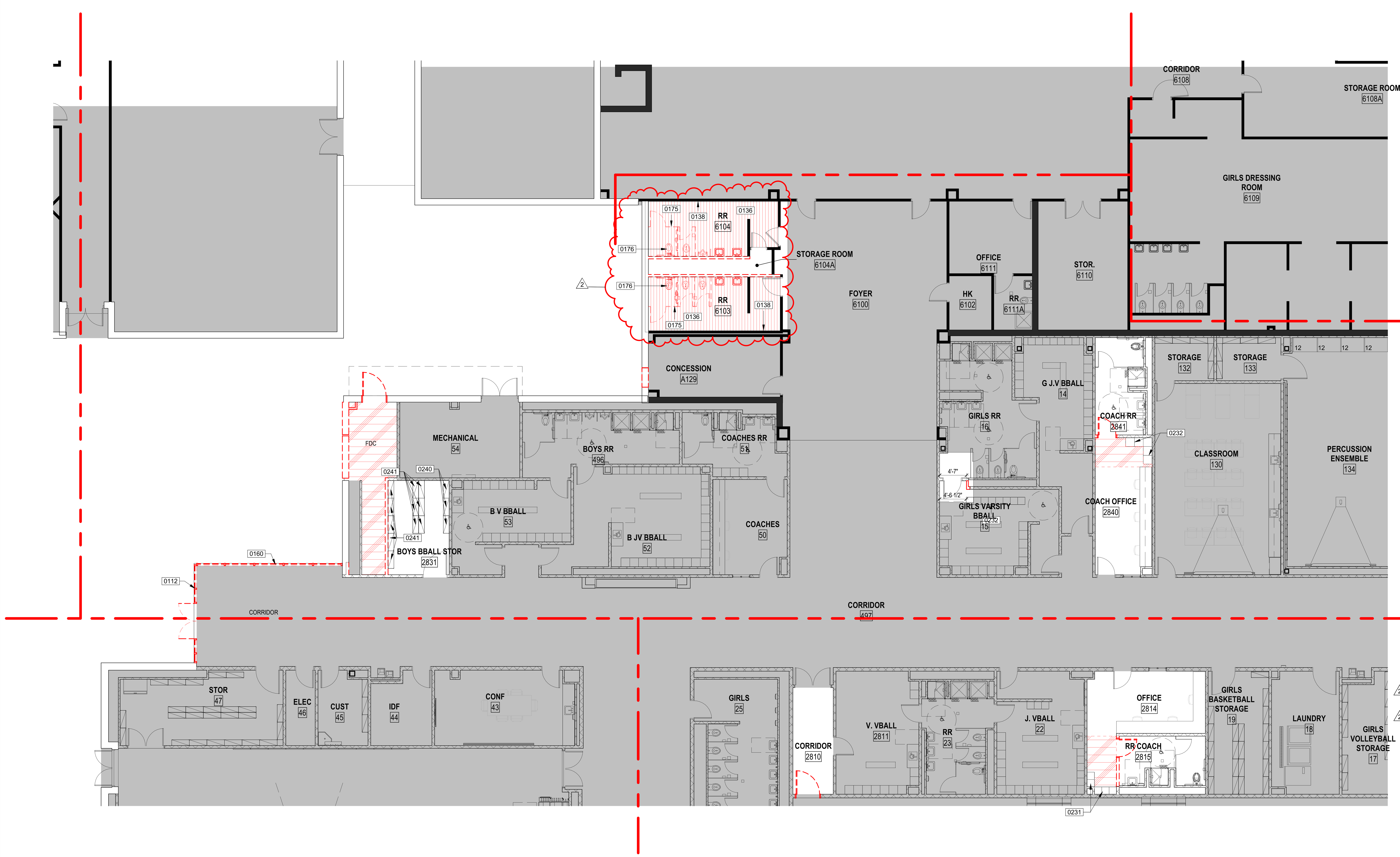
Author
Plot Stamp:
1/17/2025 11:13:26 AM
File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt



06 1ST LEVEL - DEMO PLAN - AREA K
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. 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.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. 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.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQURED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. 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 AND CLEAN CONDITION.
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25. 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 AT NO COST TO THE OWNER.
26. 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.
27. 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.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES 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 DOWELLED INTO EXITISTING 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 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. 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.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. 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. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. 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
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
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36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMO LEGEND

- INTERIOR FLOOR FINISH TO BE DEMOLISHED
- INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED
- AREA TO BE COMPLETLY DEMOLISHED
- EXISTING CEILING TO REMAIN
- DEMO WALL
- EXISTING WALL TO REMAIN
- DEMO EXISTING DOOR. EXISTING FRAME TO REMAIN AND BE REPAINTED. COLOR TO BE CHOSEN BY ARCHITECT

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0112	DEMOLISH EXISTING DOORS AND STOREFRONT SYSTEM
0136	REMOVE EXISTING FLOOR FINISH, PREP DEMOED AREA FOR NEW FLOORING; COOR. W/ABATEMENT AS NEEDED
0138	REMOVE EXISTING WALL TILE THROUGHOUT. REMOVE ALL MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS THROUGHOUT RESTROOM, TYP. PREP/REPAIR WALL AS REQUIRED FOR SCHEDULED FINISH
0160	DEMOLISH EXISTING STOREFRONT SYSTEM.
0175	REMOVE AND REPLACE EXISTING RESTROOM PARTITIONS, EXISTING HANDRAILS, TOILET PAPER DISPENSERS & SANITARY NAPKIN DISPENSERS . NEW PARTITION COLOR TO BE SELECTED BY ARCHITECT
0176	REMOVE EXISTING PLUMBING FIXTURES THROUGHTOUT RESTROOM, TYP.
0231	EXISTING LOCKERS TO REMAIN IN PLACE, TYP.
0232	EXISTING LOCKERS TO BE RELOCATED
0240	EXISTING STORAGE SHELVING TO REMAIN
0241	EXISTING STORAGE SHELVING TO BE RELOCATED

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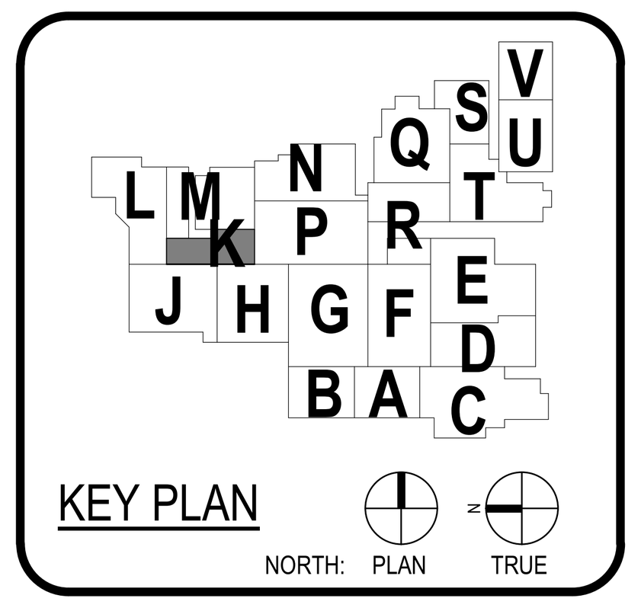
HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

17700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

KEY PLAN



DISCIPLINE

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - DEMOLITION FLOOR PLAN - AREA K

AD101K

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Author
Plot Stamp:
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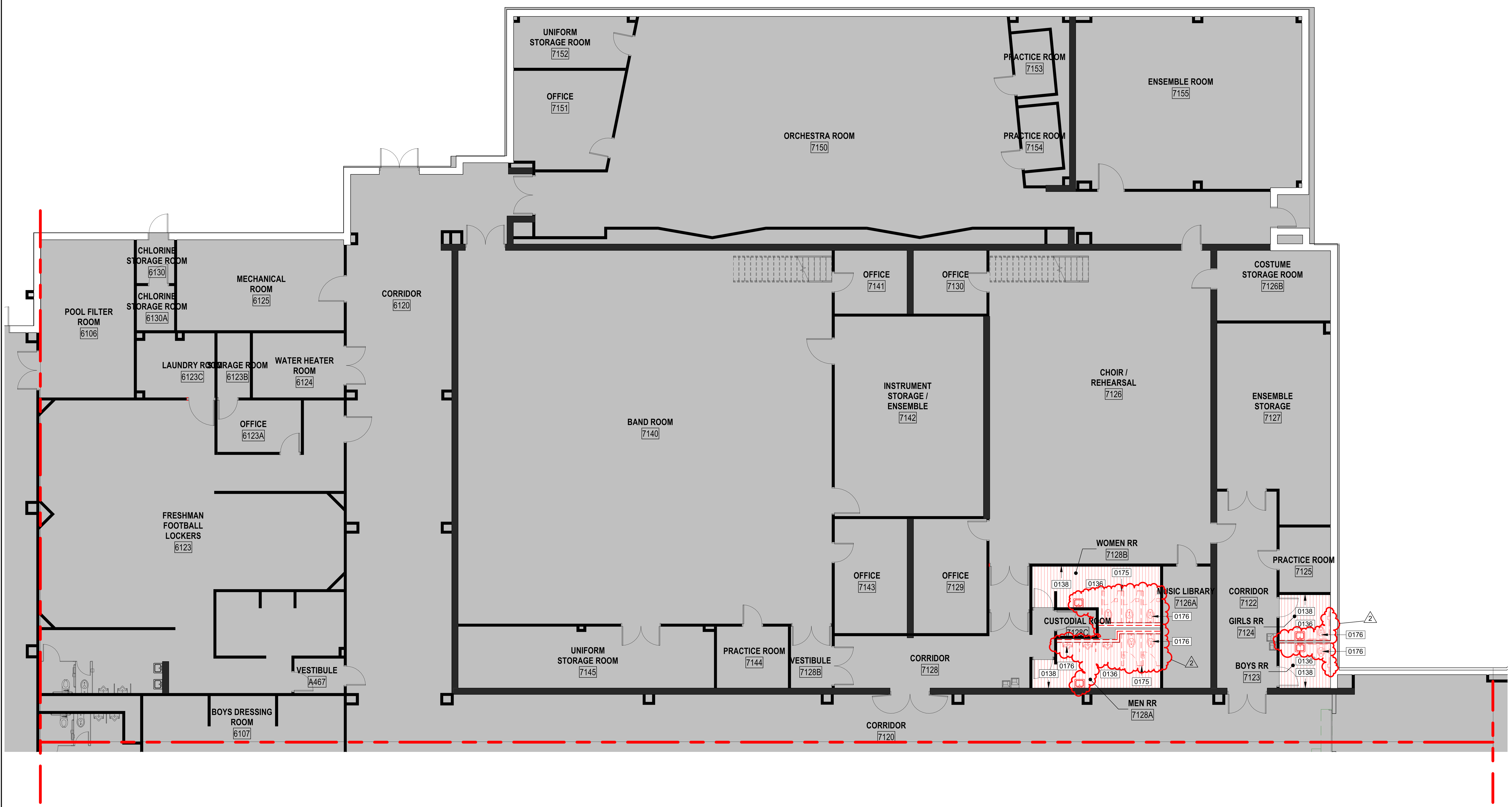
1ST LEVEL - DEMOLITION FLOOR PLAN - AREA N



1 1ST LEVEL - DEMO PLAN - AREA N
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. 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.
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19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. 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 AND CLEAN CONDITION.
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26. 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.
27. 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.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES 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 DOWELLED INTO EXITISTING 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 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. 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.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. 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. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. 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
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. 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.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMO LEGEND

- INTERIOR FLOOR FINISH TO BE DEMOLISHED
- INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED
- AREA TO BE COMPLETLY DEMOLISHED
- EXISTING CEILING TO REMAIN
- DEMO WALL
- EXISTING WALL TO REMAIN
- DEMO EXISTING DOOR. EXISTING FRAME TO REMAIN AND BE REPAINTED. COLOR TO BE CHOSEN BY ARCHITECT

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0136	REMOVE EXISTING FLOOR FINISH, PREP DEMOED AREA FOR NEW FLOORING; COOR. W/ABATEMENT AS NEEDED
0138	REMOVE EXISTING WALL TILE THROUGHOUT. REMOVE ALL MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS THROUGHOUT RESTROOM, TYP. PREP/REPAIR WALL AS REQUIRED FOR SCHEDULED FINISH
0175	REMOVE AND REPLACE EXISTING RESTROOM PARTITIONS, EXISTING HANDRAILS, TOILET PAPER DISPENSERS & SANITARY NAPKIN DISPENSERS . NEW PARTITION COLOR TO BE SELECTED BY ARCHITECT
0176	REMOVE EXISTING PLUMBING FIXTURES THROUGHTOUT RESTROOM, TYP.

2

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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO
17700 WILSON RD
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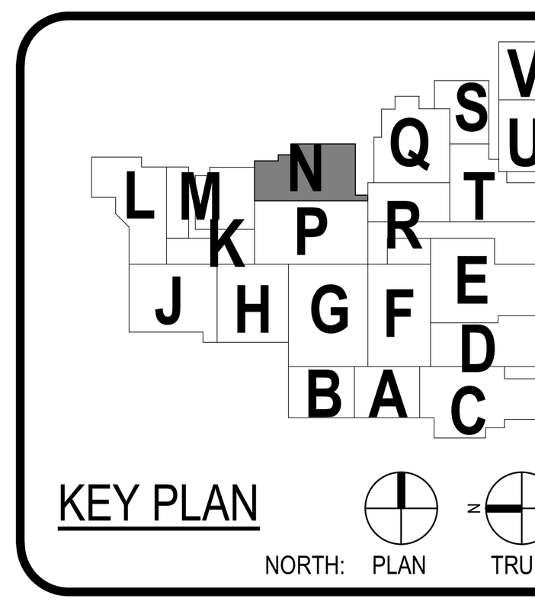
ISSUE FOR PROPOSAL
CSP: 2025-09



KEY PLAN

DISCIPLINE

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - DEMOLITION FLOOR PLAN - AREA N

AD101N

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AD102A
2ND LEVEL - DEMOLITION FLOOR PLAN - AREA A

06 2ND LEVEL - DEMO PLAN - AREA A
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. 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.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. 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.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQURED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. 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 AND CLEAN CONDITION.
24. 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.
25. 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 AT NO COST TO THE OWNER.
26. 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.
27. 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.
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33. 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
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DEMO LEGEND

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- AREA TO BE COMPLETLY DEMOLISHED
- EXISTING CEILING TO REMAIN
- DEMO WALL
- EXISTING WALL TO REMAIN
- DEMO EXISTING DOOR. EXISTING FRAME TO REMAIN AND BE REPAINTED. COLOR TO BE CHOSEN BY ARCHITECT

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0117	DEMOLISH EXISTING WATER FOUNTAINS AND CAP PLUMBING CONNECTIONS; RE: MEPT
0136	REMOVE EXISTING FLOOR FINISH, PREP DEMOED AREA FOR NEW FLOORING; COOR. W/ABATEMENT AS NEEDED
0138	REMOVE EXISTING WALL TILE THROUGHOUT. REMOVE ALL MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS THROUGHOUT RESTROOM, TYP. PREP/REPAIR WALL AS REQUIRED FOR SCHEDULED FINISH
0172	REMOVE AND REPLACE EXISTING ELEVATOR MACHINE CAB, MOTOR,ELECTRICAL WIRING AND ALL OTHER EXISTING ELEVATOR COMPONENTS
0175	REMOVE AND REPLACE EXISTING RESTROOM PARTITIONS, EXISTING HANDRAILS, TOILET PAPER DISPENSERS & SANITARY NAPKIN DISPENSERS . NEW PARTITION COLOR TO BE SELECTED BY ARCHITECT
0176	REMOVE EXISTING PLUMBING FIXTURES THROUGHTOUT RESTROOM, TYP.
0907	REMOVE EXISTING VINYL WALL COVERING THROUGHOUT, TYP. SPACKLE WALL AND PREPARE FOR PAINT FINISH RE: INTERIOR ELEVATION 27/A-528, TYP.
0909	REMOVE AND REPLACE EXISTING VINYL WALL BASE THROUGHOUT, TYP.
0911	SPACKLE WALL AND PREPARE FOR PAINT FINISH THROUGHOUT. RE: INTERIOR ELEVATION 27/A-528, TYP.

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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
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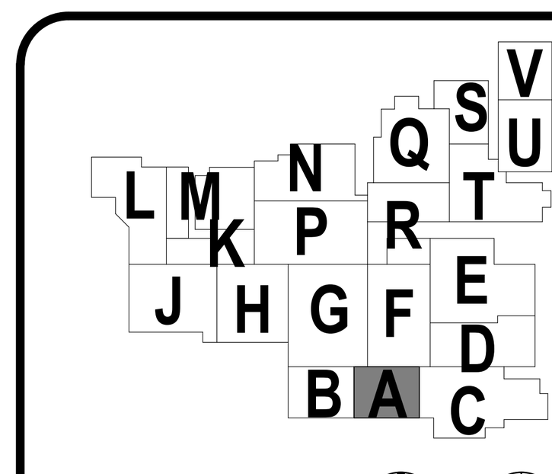
ISSUE FOR PROPOSAL
CSP: 2025-09



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	1/9/2025
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER **n/a**

2ND LEVEL - DEMOLITION FLOOR PLAN - AREA A

AD102A

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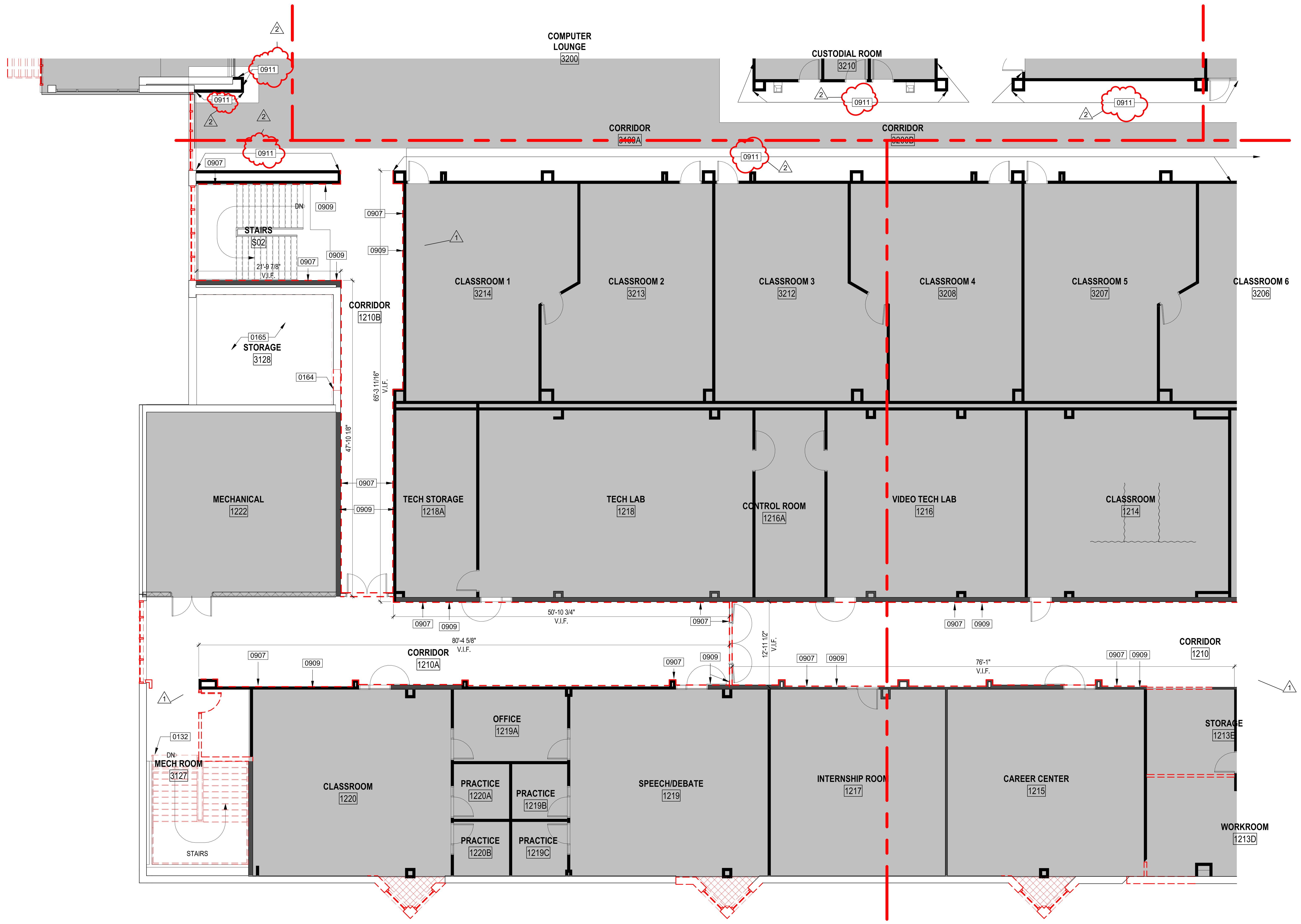

06 2ND LEVEL - DEMO PLAN - AREA B
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. 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.
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11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
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19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. 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 AND CLEAN CONDITION.
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25. 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 AT NO COST TO THE OWNER.
26. 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.
27. 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.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES 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 DOWELLED INTO EXITISTING 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 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. 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.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. 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. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. 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
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. 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.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMO LEGEND

- INTERIOR FLOOR FINISH TO BE DEMOLISHED
- INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED
- AREA TO BE COMPLETLY DEMOLISHED
- EXISTING CEILING TO REMAIN
- DEMO WALL
- EXISTING WALL TO REMAIN
- DEMO EXISTING DOOR. EXISTING FRAME TO REMAIN AND BE REPAINTED. COLOR TO BE CHOSEN BY ARCHITECT

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0132	DEMOLISH EXISTING STAIR
0164	DEMOLISH EXISTING PORTION OF MASONRY WALL FOR INSTALL OF NEW DOOR
0165	REMOVE EXISTING ROOF AND SUPPORTING STRUCTURE; RE: STRUCT DWGS
0907	REMOVE EXISTING VINYL WALL COVERING THROUGHOUT, TYP. SPACKLE WALL AND PREPARE FOR PAINT FINISH RE: INTERIOR ELEVATION 27/A-528, TYP.
0909	REMOVE AND REPLACE EXISTING VINYL WALL BASE THROUGHOUT, TYP.
0911	SPACKLE WALL AND PREPARE FOR PAINT FINISH THROUGHOUT. RE: INTERIOR ELEVATION 27/A-528, TYP.

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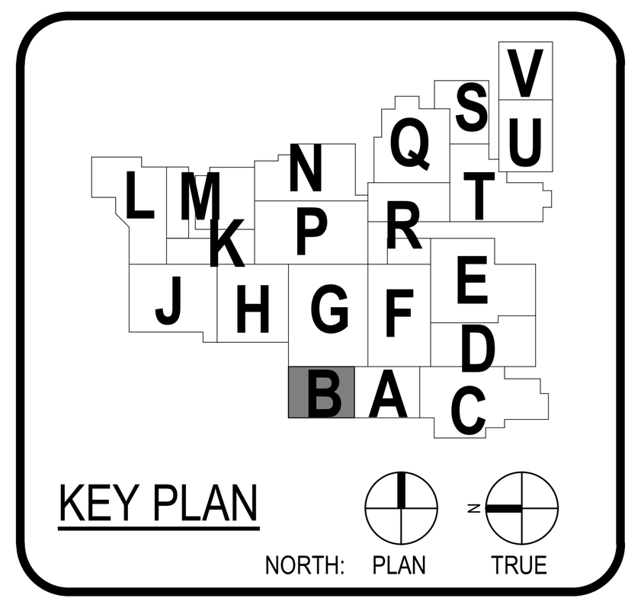

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12/18/2024

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DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	1/9/2025
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

2ND LEVEL - DEMOLITION FLOOR PLAN - AREA B

AD102B

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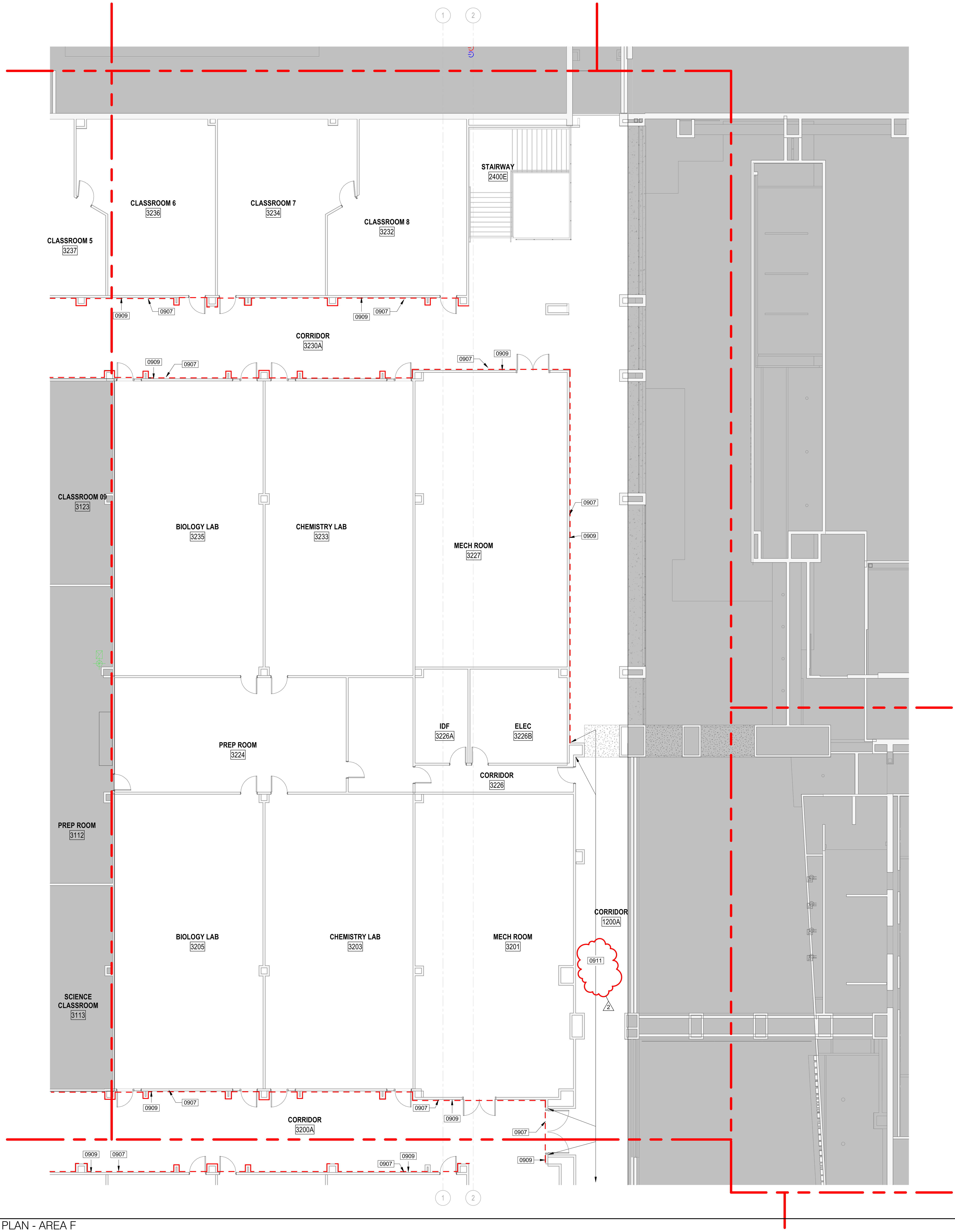

06 2ND LEVEL - DEMOLITION PLAN - AREA F
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A801 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE S5 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK
25. PROVIDE PLYWOOD IN METAL STUD WALL PARTITION FOR SUPPORT OF ALL TV LOCATIONS.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0907	REMOVE EXISTING VINYL WALL COVERING THROUGHOUT, TYP. SPACKLE WALL AND PREPARE FOR PAINT FINISH RE: INTERIOR ELEVATION 27/A-528, TYP.
0909	REMOVE AND REPLACE EXISTING VINYL WALL BASE THROUGHOUT, TYP.
0911	SPACKLE WALL AND PREPARE FOR PAINT FINISH THROUGHOUT. RE: INTERIOR ELEVATION 27/A-528, TYP..

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KEY PLAN
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NORTH: PLAN TRUE

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ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

2ND LEVEL - DEMOLITION PLAN - AREA F

AD102F

2ND LEVEL - DEMOLITION PLAN - AREA F
AD102F
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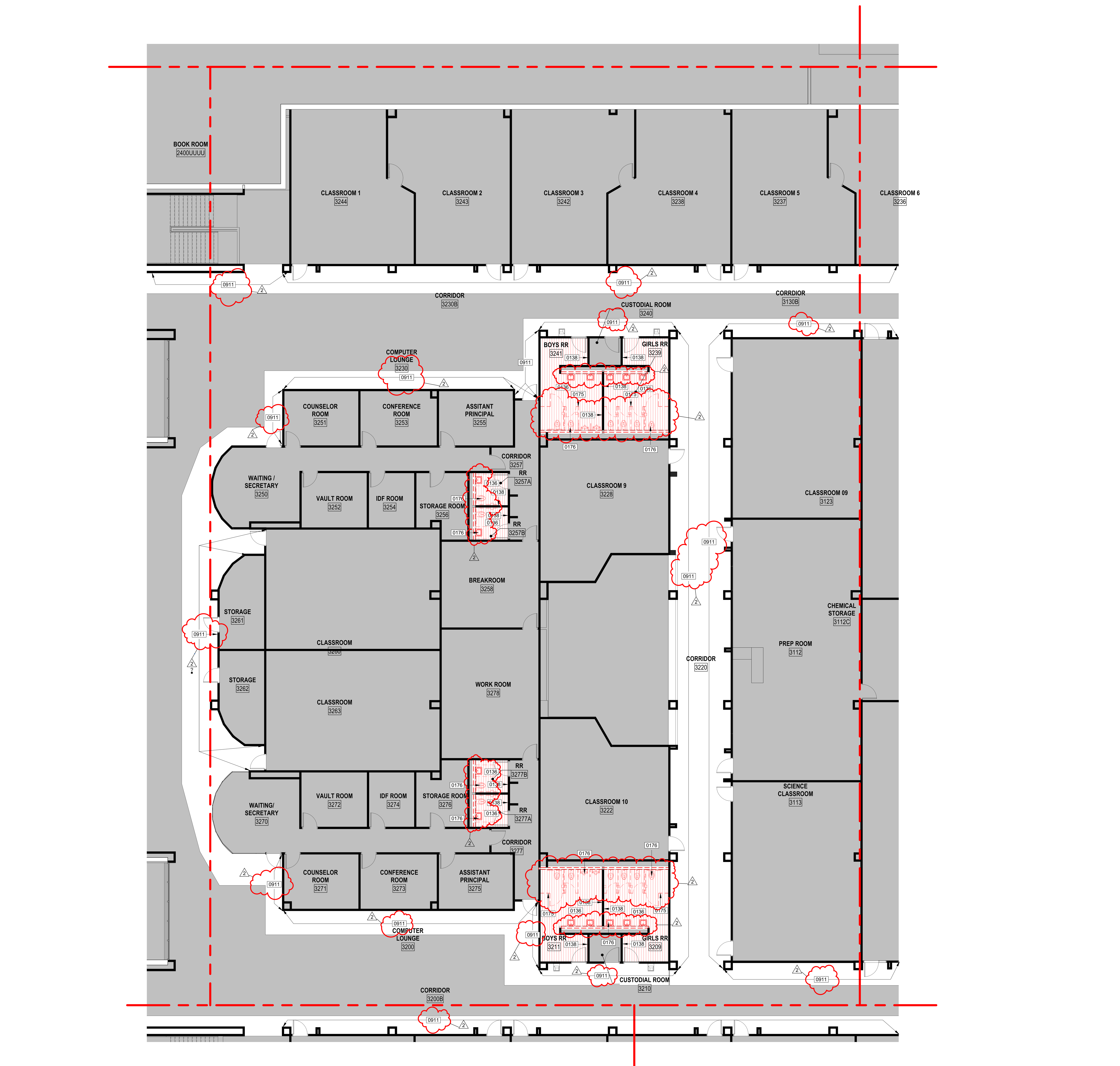
AD102G
2ND LEVEL - DEMOLITION FLOOR PLAN - AREA G



06 2ND LEVEL - DEMO PLAN - AREA G
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

1. 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.
2. CONTRACTOR SHALL VERIFY EXISTING SITE AND BUILDING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO DEMOLITION ACTIVITIES AND WORK.
3. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING.
4. 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.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS BEFORE COMMENCING WORK.
6. AFTER AWARD OF THE CONTRACT, CHANGE ORDER REQUESTS FOR ADDITIONAL MONEY WILL NOT BE APPROVED IF THE WORK COULD HAVE BEEN ANTICIPATED DURING A SITE VISIT BY THE CONTRACTOR.
7. CONTRACTOR SHALL NOT SCALE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SHORING, TEMPORARY BRACING, AND OR TEMPORARY SUPPORTS AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY OF EXISTING STRUCTURE TO REMAIN AND OR EXISTING BUILDING ELEMENTS TO REMAIN.
9. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES AND WORK.
10. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS REGULARLY AS NECESSARY TO ELIMINATED INTERFERENCE WITH ROADS, STREET, WALKS, AND ALL OTHER ADJACENT FACILITIES.
11. CONTRACTOR SHALL REMOVE TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
12. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF TEMPORARY DUST AND OR SOUND PARTITION BETWEEN CONSTRUCTION AREA AND AREAS NOT IN SCOPE AS NECESSARY. DEMOLITION ACTIVITIES SHALL BE PERFORMED SO AS TO PRODUCE MINIMAL DISTURBANCE TO EXISTING FACILITY AND OCCUPANTS (I.E. MINIMIZE EXCESSIVE AND PROLONGED NOISE LEVELS AND DUST).
13. CONTRACTOR SHALL REPAIR, REPLACE, OR PATCH EXISTING BUILDINGS, DRIVEWAYS, SIDEWALKS, CANOPIES, AND OR PARKING AREAS DAMAGED, MODIFIED, AND OR DISTURBED BY DEMOLITION WORK AT NO COST TO THE OWNER.
14. ALL EXISTING EQUIPMENT THAT REMAINS SHALL BE PROTECTED DURING DEMOLITION AND OR CONSTRUCITON TO PREVENT DAMAGE. ANY DAMAGE TO REMAINING EXISTING EQUIPMENT SUSTAINED DURING DEMOLITION AND OR CONSTRUCITON SHALL BE EQUIVALENTLY REPLACED OR EQUIVALENTLY REPAIRED AT NO COST TO THE OWNER.
15. CONTRACTOR SHALL PROVIDE TRAFFIC HANDLING MEASURES TO PROTECT THE GENERAL PUBLIC AT ALL TIMES, AS NECESSARY AND AS REQURED BY AUTHORITIES HAVING JURISDICTION.
16. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
17. WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH DEMOLITION.
18. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES INCLUDING BUT NOT LIMITED TO THE FOLLOWING: ELECTRIC, GAS, WATER, TELEPHONE, STORM SEWER, AND SANITARY SEWER FOR FIELD LOCATION OF ALL UNDERGROUND AND OVERHEAD UTILITY LINES. PRIOR TO COMMENCEMENT OF ANY DEMOLITION WORK, CONTRACTOR SHALL IDENTIFY ALL ELECTRICAL CIRCUITS SERVICING THE AREA INVOLVED WITH THIS DEMOLITION. THOSE CIRCUITS SHALL THEN BE LOCKED OUT AND TAGGED OUT IF THEY DO NOT SERVICE ANY OF THE REMAINING BUILDING. THOSE CIRCUITS WHICH ARE IDENTIFIED TO SERVICE BOTH THE AREA TO BE DEMOLISHED AND THE REMAINING BUILDING SHALL BE SPLIT SO AS TO KILL ALL ELECTRICAL POWER TO THE AREA TO BE DEMOLISHED WHILE MAINTAINING POWER TO THE REMAINDER OF THE BUILDING.
19. CONTRACTOR SHALL RELOCATE UTILITIES AND EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW HVAC, ELECTRICAL, PLUMBING, AND TECHNOLOGY REQUIREMENTS FOR NEW WORK.
20. PROTECT EXISTING SITE ELEMENTS AND EXISTING LANDSCAPING TO REMAIN. PROTECTION SHALL INCLUDE BUT NOT BE LIMITED TO EXISTING TREES AND OTHER EXISTING VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIAL OR EXCAVATED MATERIAL WITHIN DRIP LINES.
21. CONTRACTOR SHALL REGRADE AND HYDROMULCH AREAS AFFECTED BY DEMOLITION.
22. OWNER HAS RIGHT OF FIRST REFUSAL OF ALL ITEMS REMOVED AS PART OF THE SOCPE OF WORK, WHETHER IDENTIFIED AS SALVAGE OR NOT.
23. 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 AND CLEAN CONDITION.
24. 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.
25. 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 AT NO COST TO THE OWNER.
26. 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.
27. 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.
28. REMOVE, PATCH, AND REPAIR ALL ABANDONED ROOF PENETRATIONS RESULTING FROM WORK.
29. SAW-CUT AND REMOVE EXISTING FLOOR FINISHES AND FLOOR SLAB AS REQUIRED TO INSTALL NEW FIXTURES, ITEMS, AND OR DEVISES 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 DOWELLED INTO EXITISTING 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 3,500 PSI MINIMUM CONCRETE AND PREPARE FLOOR, INCLUDING NEW CONCRETE, TO RECEIVE NEW FLOOR FINISHES. COORDINATE WITH STRUCTURAL.
30. 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.
31. NEW OPENING TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED TO THE HEIGHT AND WIDTH INDICATED. 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. COORDINATE LOCATIONS OF ALL NEW OPENINGS IN EXISTING WALLS AND PARTITIONS WITH ARCHITECTURAL PLANS.
32. WHERE EXISTING WALL OPENINGS ARE TO BE NEWLY CLOSED-OFF, REMOVE ANY EXISTING OPENING FRAME AND PATCH AND REPAIR EXISTING WALL TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES, UNLESS NOTED OTHERWISE.
33. 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
34. REFER TO MEPT DRAWINGS FOR DEMOLITION OF MEPT SYSTEMS. IDENTIFY WORK REQUIRED BY THIS CONTRACTOR WHICH MAY AFFECT DEMOLITION AND OR REPAIRS OF ARCHITECTURAL ELEMENTS. COORDINATE WITH RELATED SUBCONTRACTORS THE EXTENT OF ALL DEMOLITION WORK.
35. 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.
36. WHERE EXISTING FINISH FLOOR IS REMOVED, PREPARE FLOOR SURFACE TO RECEIVE NEW FLOORING.
37. ALL DASHED LINES ARE DEMOLITION LINES U.N.O.

DEMO LEGEND

- INTERIOR FLOOR FINISH TO BE DEMOLISHED
- INTERIOR FLOOR FINISH AND CEILING TO BE DEMOLISHED
- AREA TO BE COMPLETLY DEMOLISHED
- EXISTING CEILING TO REMAIN
- DEMO WALL
- EXISTING WALL TO REMAIN
- DEMO EXISTING DOOR. EXISTING FRAME TO REMAIN AND BE REPAINTED. COLOR TO BE CHOSEN BY ARCHITECT

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0136	REMOVE EXISTING FLOOR FINISH, PREP DEMOED AREA FOR NEW FLOORING; COOR. W/ABATEMENT AS NEEDED
0138	REMOVE EXISTING WALL TILE THROUGHOUT. REMOVE ALL MIRRORS, SOAP DISPENSERS, PAPER TOWEL DISPENSERS THROUGHOUT RESTROOM, TYP. PREP/REPAIR WALL AS REQUIRED FOR SCHEDULED FINISH
0175	REMOVE AND REPLACE EXISTING RESTROOM PARTITIONS, EXISTING HANDRAILS, TOILET PAPER DISPENSERS & SANITARY NAPKIN DISPENSERS . NEW PARTITION COLOR TO BE SELECTED BY ARCHITECT
0176	REMOVE EXISTING PLUMBING FIXTURES THROUGHTOUT RESTROOM, TYP.
0911	SPACKLE WALL AND PREPARE FOR PAINT FINISH THROUGHOUT. RE: INTERIOR ELEVATION 27/A-528, TYP.

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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

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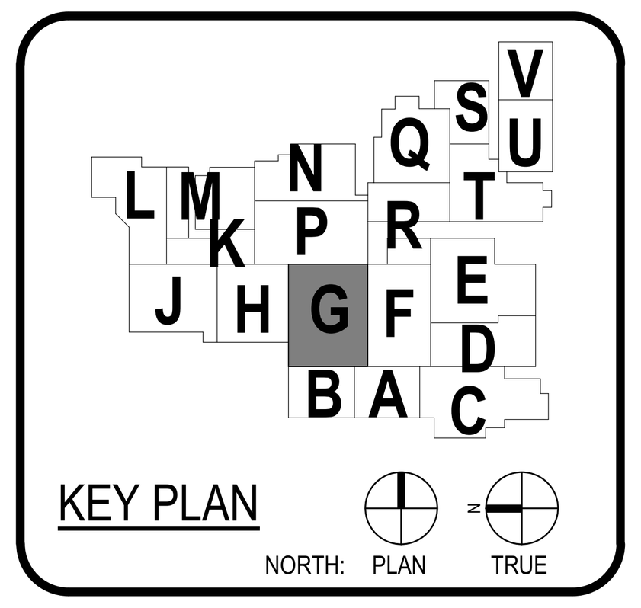

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DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

2ND LEVEL - DEMOLITION FLOOR PLAN - AREA G

AD102G

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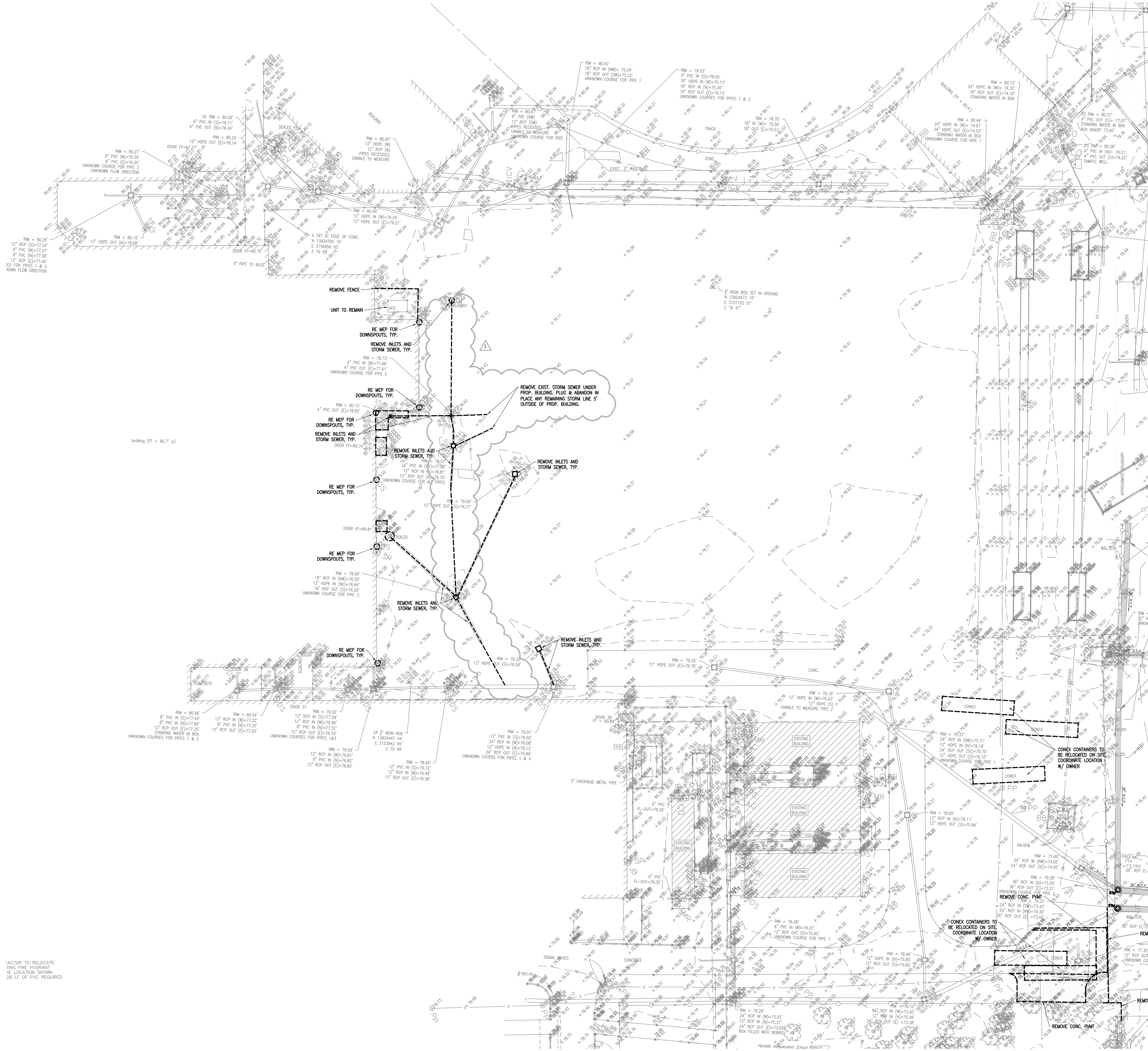

NOTES TO SHEET

1. CONTRACTOR SHALL TAKE EXTREME PRECAUTION TO PROTECT SURROUNDING FACILITIES DURING CONSTRUCTION.
2. CONTRACTOR SHALL ENSURE THE IRRIGATION SYSTEM OUTSIDE OF SPORTS FIELD REMAINS OPERATIONAL UPON REMOVAL OF THE SPORTS FIELD IRRIGATION SYSTEM.
3. CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FENCING TO PRE-CONSTRUCTION CONDITION AS NECESSARY FOR FIELD CONSTRUCTION ACCESS.

LEGEND

REMOVE EXISTING CONCRETE PAVEMENT.

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HUMBLE INDEPENDENT SCHOOL DISTRICT
HUMBLE, TEXAS
HARRIS COUNTY

STATE OF TEXAS
TRACE C. CRYER
143668
LICENSED
PROFESSIONAL ENGINEER

TX FIRM No.
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DATE	PROJECT NUMBER
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No.	Description	Date
1	ADDENDUM 2	01/17/2025

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DEMOLITION PLAN (AREA S)

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NOTES TO SHEET

1. CONTRACTOR SHALL TAKE EXTREME PRECAUTION TO PROTECT SURROUNDING FACILITIES DURING CONSTRUCTION OF SYNTHETIC TURF FIELD.
2. CONTRACTOR SHALL ENSURE THE IRRIGATION SYSTEM OUTSIDE OF SPORTS FIELD REMAINS OPERATIONAL UPON REMOVAL OF THE SPORTS FIELD IRRIGATION SYSTEM.
3. CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FENCING TO PRE-CONSTRUCTION CONDITION AS NECESSARY FOR FIELD CONSTRUCTION ACCESS.

LEGEND

REMOVE EXISTING CONCRETE PAVEMENT.

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HUMBLE INDEPENDENT SCHOOL DISTRICT · HUMBLE, TEXAS · HARRIS COUNTY

STATE OF TEXAS
TRACE C. CRYER
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HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 1	01/09/2025
2	ADDENDUM 2	01/17/2025

ISSUE FOR PROPOSAL

DEMOLITION PLAN (AREA B)

C 300

B:\22\220537\Div6-Dwgs\6a BIM CAD\02 Civil\Dwgs\C 300 DEMOLITION PLAN (AREA B).dwg Last Saved: AWAGNER
Tuesday, January 7, 2025 9:01:37 AM

DRAWN BY: Author
CHECKED BY: Checker

LANDSCAPE NOTES

GENERAL

1. Contractor shall obtain all required permits prior to starting construction.
2. Contractor shall comply with all applicable codes, laws, and regulations required by any authorities having jurisdiction over project site.
3. All underground utility locations shall be verified by Contractor prior to any site excavation.
4. The Contractor shall verify all material measurements and plant quantites.
5. Contractor to attend pre-installation meeting and participate in an installation meeting with Owner's Representative.

MATERIALS

1. TOPSOIL
   Provide topsoil which is fertile, friable, natural loam, surface soil, free of subsoil, clay lumps, brush, weeds and other litter, and free of roots, stumps, stones larger than 2 inches in any dimension and other extraneous or toxic matter harmful to plant growth.

2. PLANTING BEDS
   a. All Planting bed areas shall be prepared with 6" depth planting mix consisting of: 50% topsoil, 25% compost, 25% sand (not bank sand); 6" planting mix shall be tilled into existing soil a minimulm of 12" depth.
   b. All planting beds shall have continuous shovel-cut bed edge when steel edge is not specified.

3. PLANT MATERIAL
   a. Planting shall be of normal growth, free of disease, insects, insect eggs and larva, and have strong root systems. Plant material shall be typical for variety and species and conform to size specified in plant list.
   b. All plant material shall meet or exceed the size specified in the plant list.

4. MULCH
   All mulch shall be shredded hardwood mulch.

5. TREE STAKING
   a. Hose shall be 2 ply reinforced rubber hose.
   b. Wire shall be no.10 or 12 gauge twisted taunt with one wire per hose.
   c. Stakes shall be metal.

PLANT INSTALLATION

1. Excavation for container trees shall be twice the width of the container (with angled sides) and the depth shall be the container depth.
2. Set plants at the same relationship to finish grade as they bore to the ground from which they were in their container.
3. Utilities, rock, tree roots, or obstructions encountered in site inspection or excavation of tree or shrub pits shall be brought to the attention of the Owner. Proceed with work after alternate planting locations have been designated or approved by the Owner's Representative.
4. When plant pits have been backfilled approximately $\frac{2}{3}$ full with soil mixture, water thoroughly before installing remaining soil, allowing soil to settle. After water has been absorbed, fill pit with soil mix.
5. Form an earth saucer around the perimeter of plant pits.
6. Water all plant material immediately after planting.
7. Mulch all plant material 2"-3" deep after planting.
8. When staking plants, plants shall stand plumb after staking and all trees shall be staked within 24 hours of planting. Stakes shall be driven into ground outside of excavated hole.

GRASS PLANTING

SURFACE PREPARATION

1. Clean all areas of weeds and debris prior to any soil preparation or grading work.
2. Remove all core plugs, debris, roots, rocks, clods, and construction debris and dispose off site.

SOLID SOD:

1. See plant list for type of sod to be used.
2. Add 1" minimum, or as-needed, of final grade material as a setting bed for sod.
3. Sod areas to be graded to achieve proper final elevations and allowing smooth drainage.
4. Grades to be approved before sodding.
5. Lay sod in rows with staggered joints. Butt sections tightly without overlapping or leaving gaps between sections. Joints to be sand filled.
6. Roll sodded areas in two directions perpendicular to each other.
7. Repair and re-roll areas with lump, depressions, or other irregularities.
8. Water sodded areas immediately after planting to provide minimum of four (4) inches of penetration into soil below sod.

HYDROMULCH

Summer Mix: Hulled Common Bermuda Grass, Cynodon dactylon
85% pure live seed at 75 lbs seed / acre
Winter Mix: Unhulled Common Bermuda, Cynodon dactylon
85% pure live seed at 75 lbs seed / acre
Annual Rye Grass - 85% pure live seed at 175 lbs. seed / acre

1. Perform grading and shaping refinements.
2. Grades to be approved before hydromulch application.
3. Apply seed with approved spray equipment and water (to keep moist) seeded areas.
4. Reseed areas that do not show germination until an acceptable stand of grass is obtained. Bare areas must be less than 3" in any direction.
5. Areas will be accepted as complete when a uniform stand of grass has been obtained.

CLEANUP

1. The site shall be kept as clean as possible at all times.
2. As planting operations proceed, all rope, wire, empty containers, rocks, clods and any other debris shall not be allowed to accumulate and should be removed daily.
3. After planting operations are complete, all paved surfaces shall be swept and washed if necessary.

MAINTENANCE

1. Contractor shall begin maintenance upon starting any portion of work and shall continue 60 days beyond Substantial Completion.
2. Maintenance of all new planting shall consist of watering, weeding, mulching, tightening and repairing guys, resetting plants to proper grades or upright position, and keeping plants free of insects and disease.
3. New lawn maintenance shall consist of mowing, watering, weeding, repairing all erosion, and reseeding as necessary to establish a uniform stand of the specified grass.

WARRANTY

1. Contractor shall warrant that all trees, shrubs, and groundcover planted under this contract will remain healthy and alive for one (1) year after Substantial Completion.

PLANT SCHEDULE

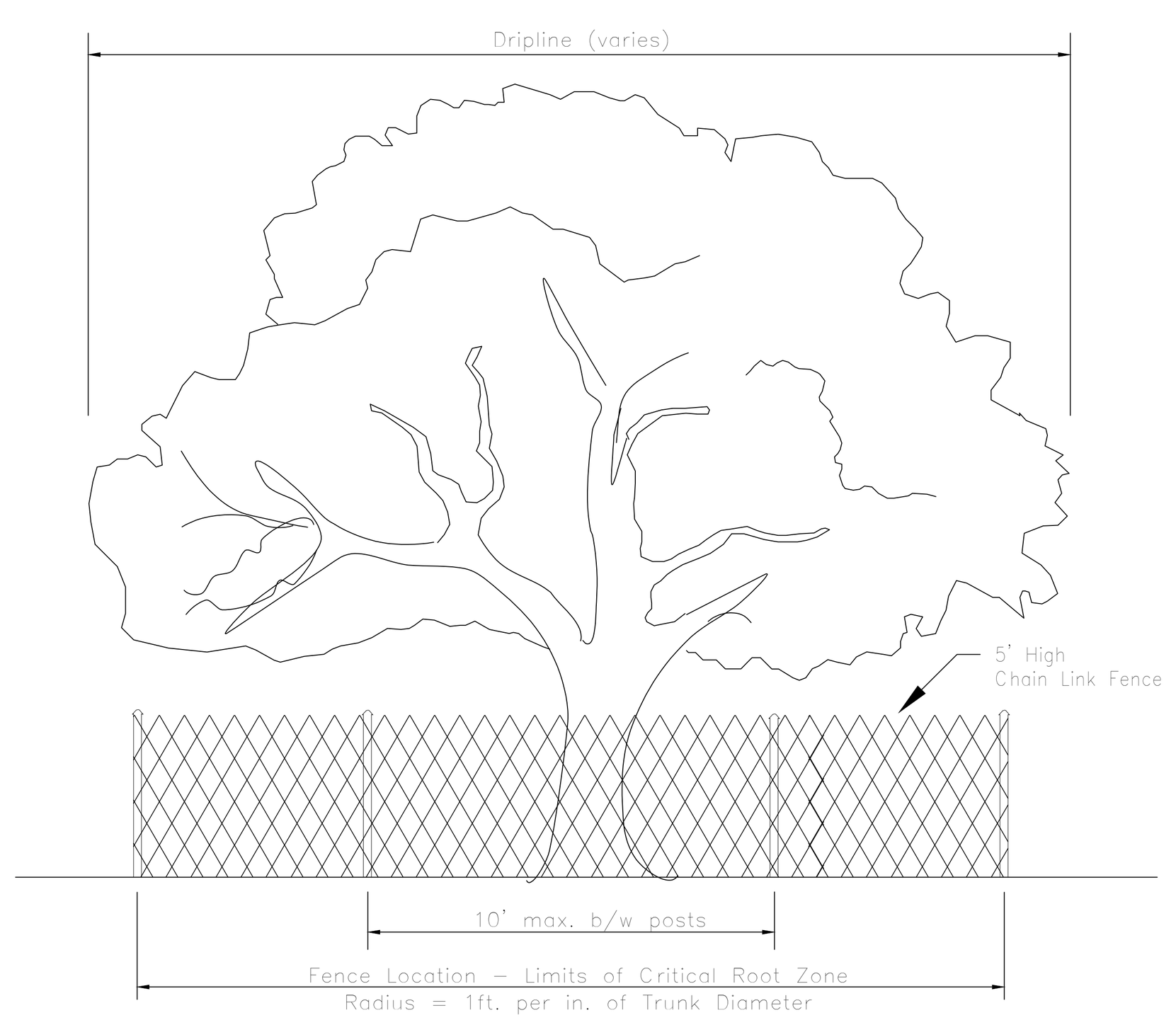
SYMBOL	BOTANICAL / COMMON NAME	CONT	CAL	HEIGHT	QTY
TREES					
	Lagerstroemia indica ` Natchez` / Crape Myrtle	30 gal		8`-10`	12
	Magnolia grandiflora `Little Gem` / Little Gem Magnolia	30 gal		8`-10`	11
	Quercus shumardii / Shumard Oak	30 gal	1.5"Cal	8`-10`	6
	Quercus virginiana / Live Oak	30 gal	1.5"Cal	8`-10`	2

SYMBOL	BOTANICAL / COMMON NAME	SIZE	HT.	SPACING	QTY
SHRUBS					
	Dianella tasmanica / Flax Lily	1 gal			56
	Ficus tikoua / Sandy Leaf Fig	1 gal		18" o.c.	274
	Ilex vomitoria `Nana` / Dwarf Yaupon	3 gal			41
	Ligustrum japonicum / Waxleaf Ligustrum	3 gal			64
	Ligustrum sinense `Sunshine` / Sunshine Ligustrum	3 gal			23
	Muhlenbergia capillaris `Gulf Coast` / Gulf Coast Muhly	3 gal			22

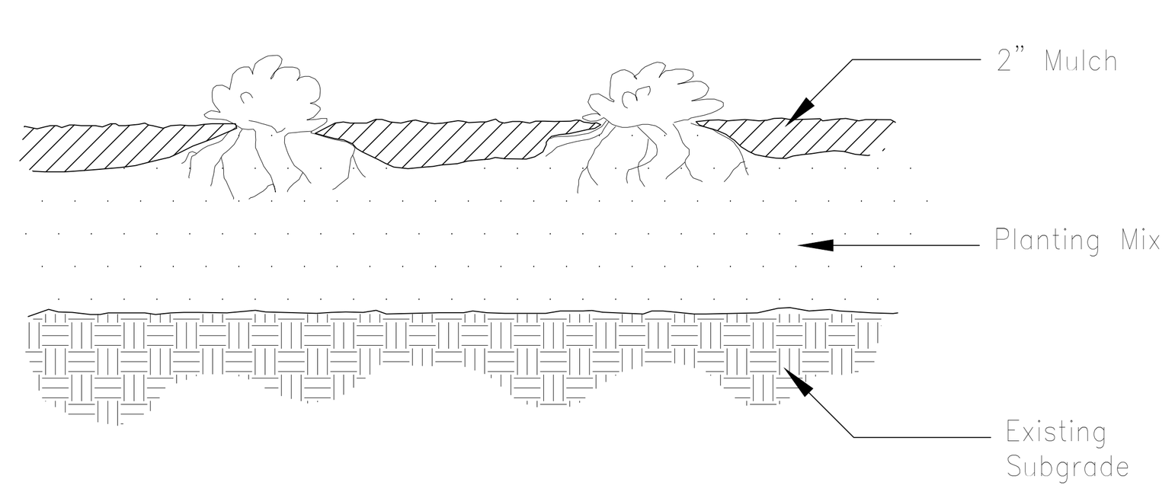
2
2

Common Bermuda Hydromulch all disturbed areas
Solid sod stripping along all curbs and walks in Hydromulch areas

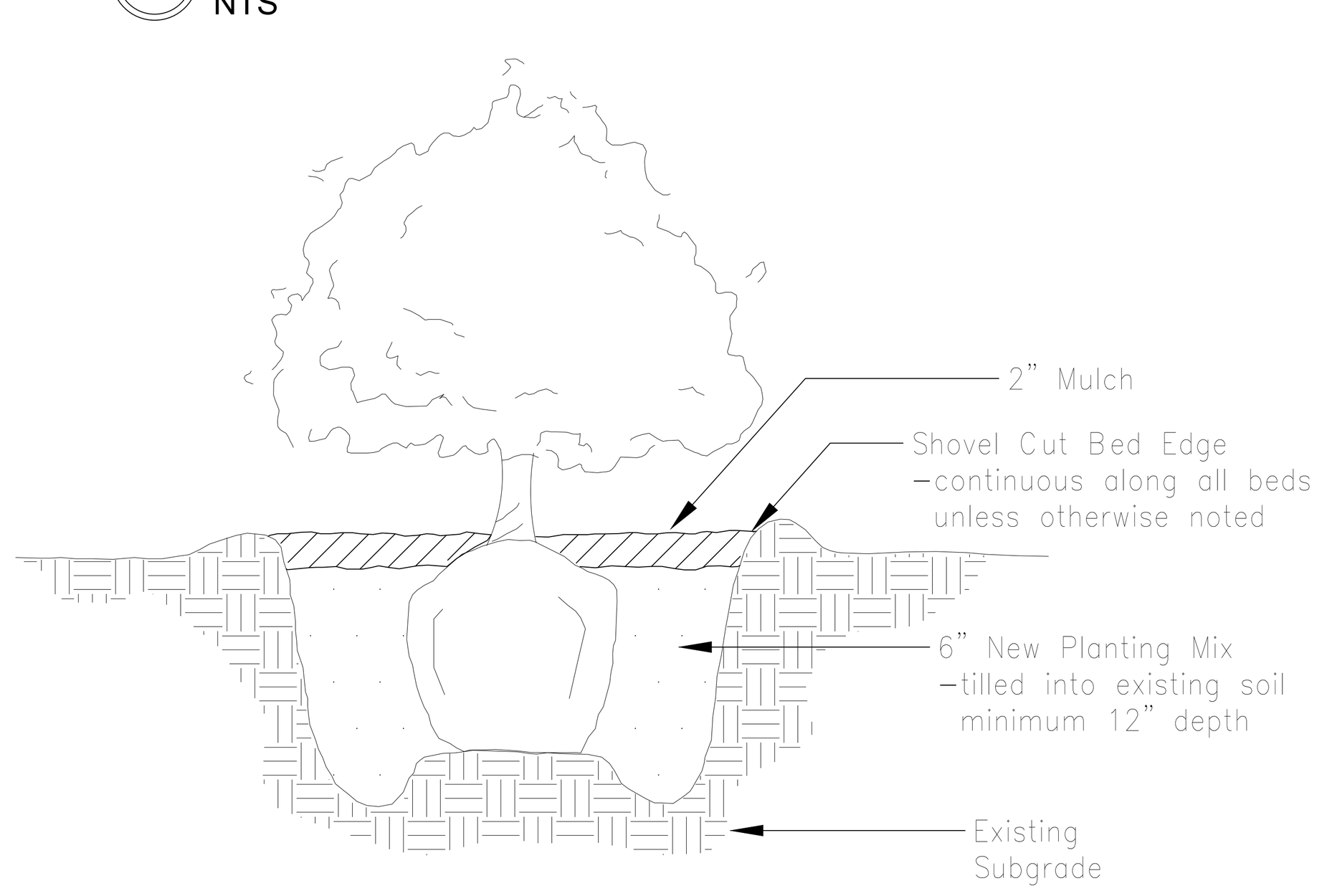
ALTERNATE #6
Common Bermuda Solid Sod (Hydromulch these areas in base bid)



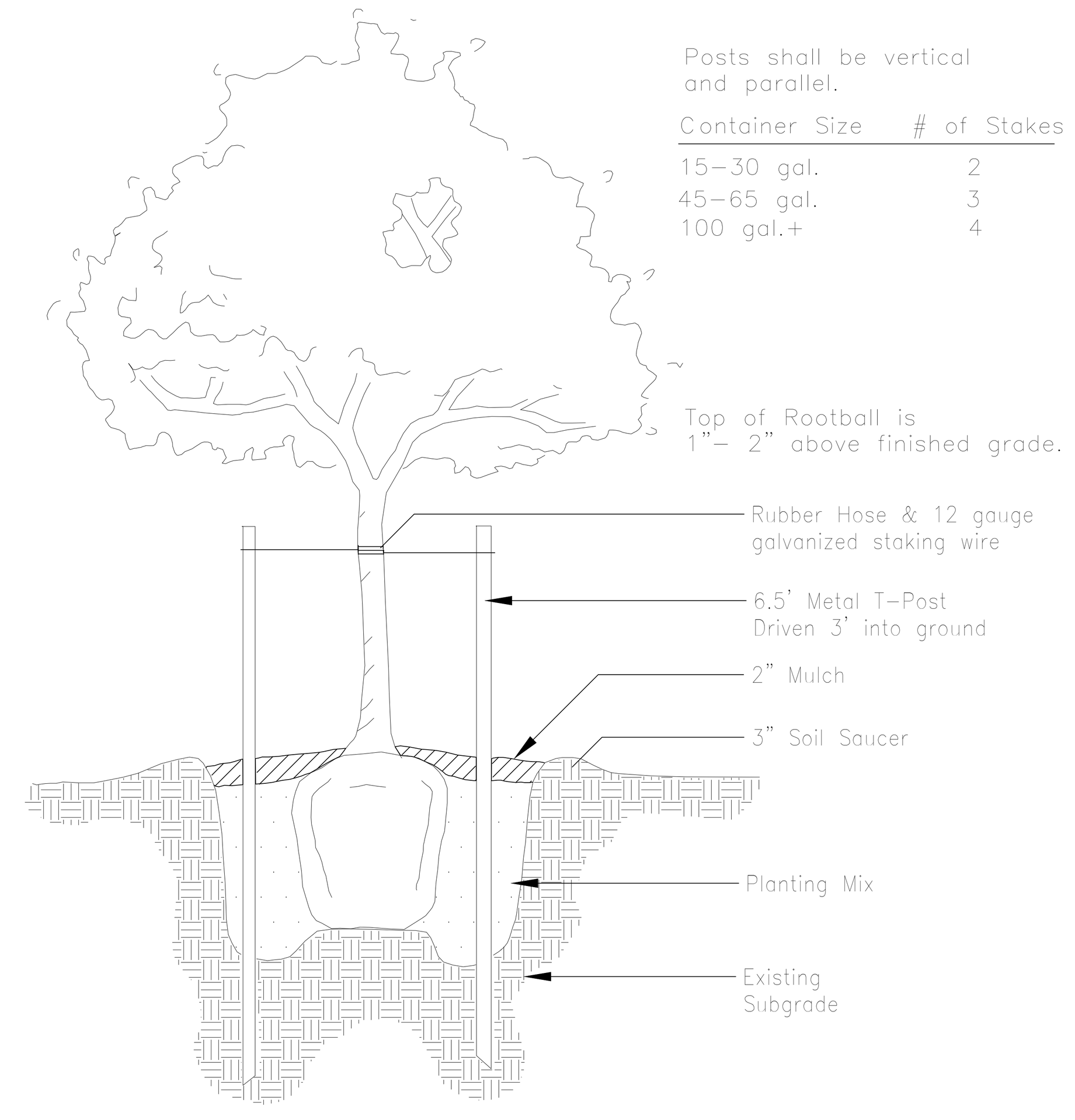
E Tree Protection Fence
NTS



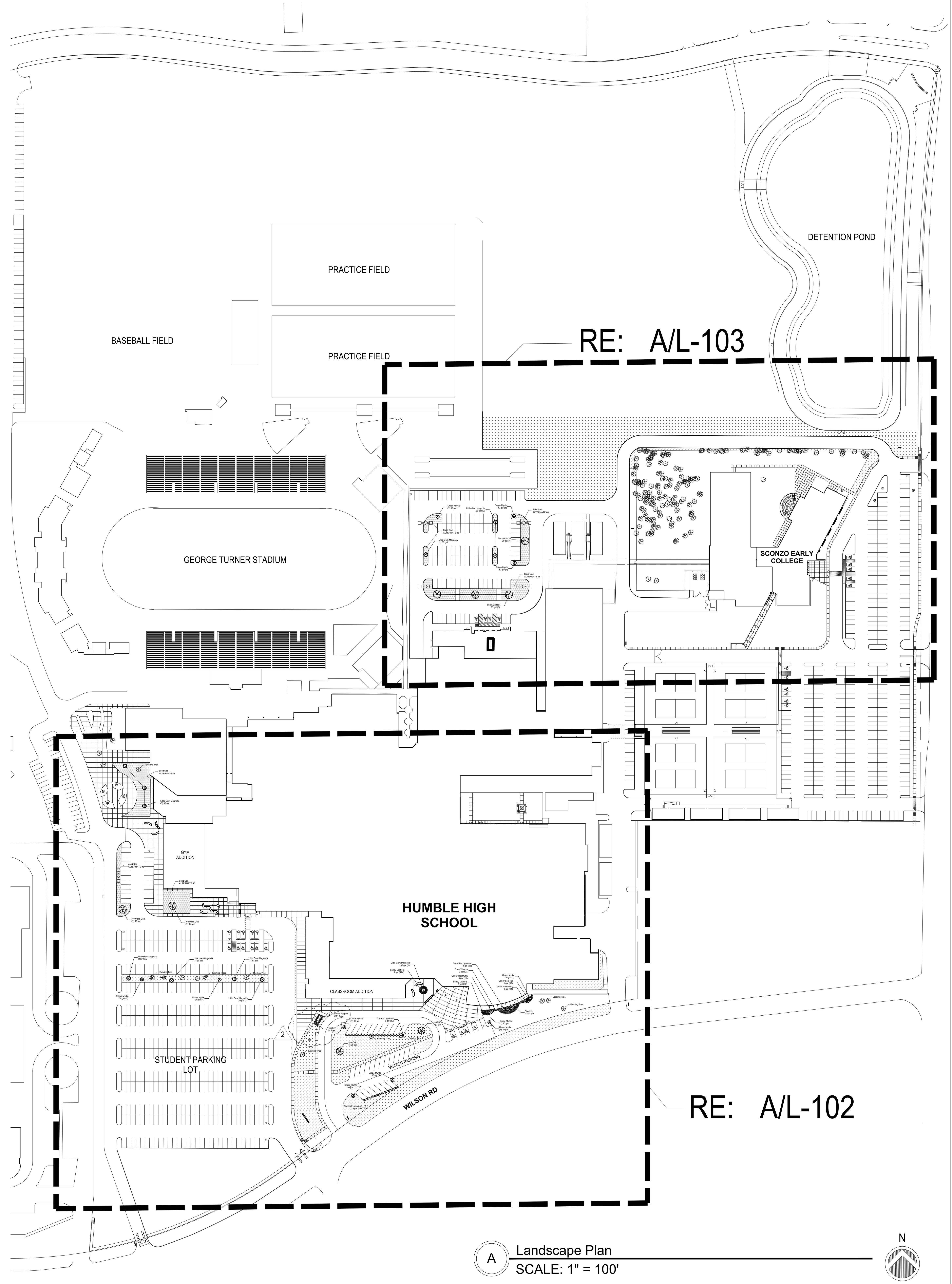
A Groundcover Planting
NTS



B Shrub Planting
NTS



C Tree Planting
NTS



A Landscape Plan
SCALE: 1" = 100'

PBK

ARCHITECT PBK Architects, Inc.
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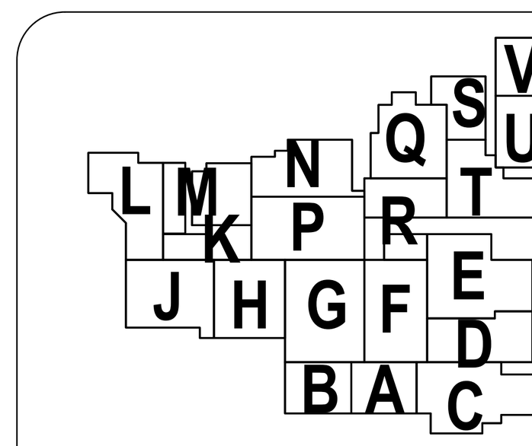
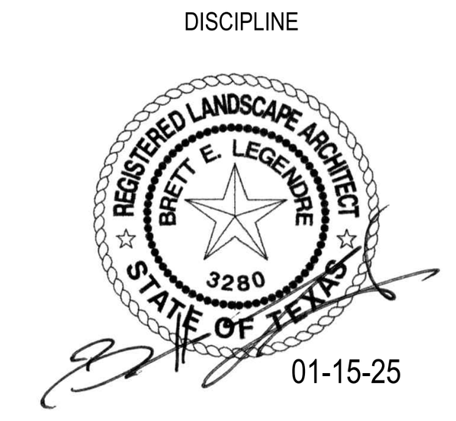
HUMBLE HIGH SCHOOL ADDITION & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE



01-15-25

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

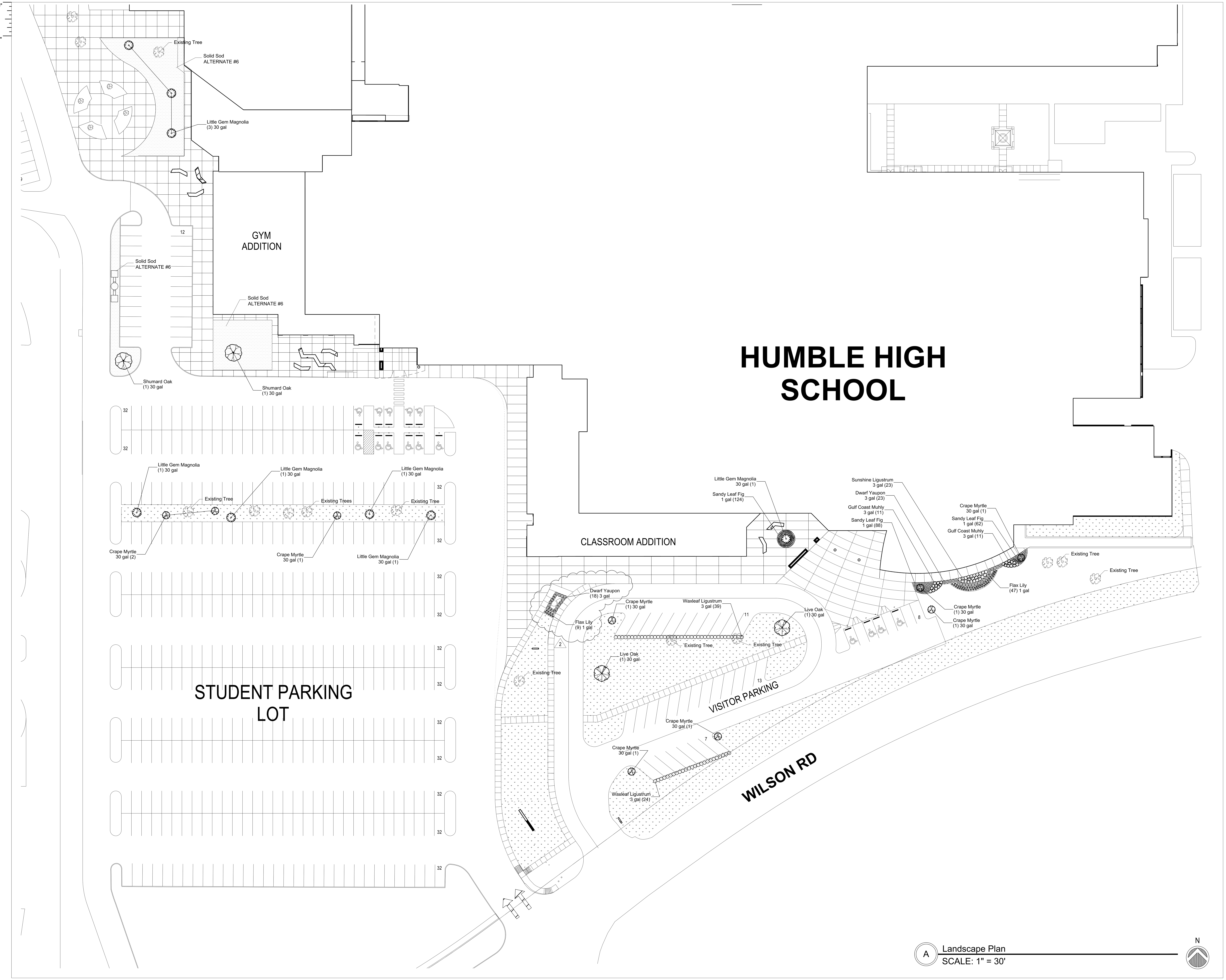
No.	Description	Date
1	ADDENDUM #2	01/15/25

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

LANDSCAPE PLAN

L-101



HUMBLE HIGH SCHOOL ADDITION & RENOVATIONS - PHASE TWO

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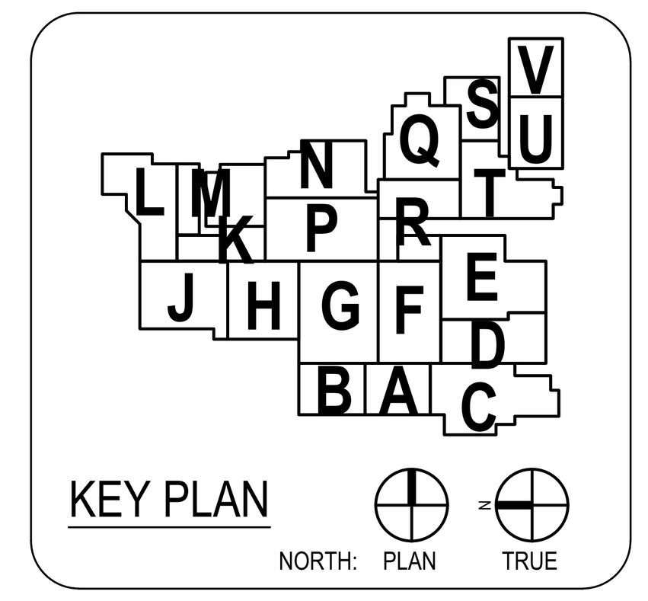
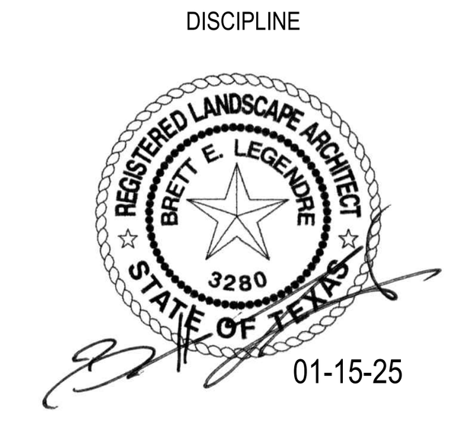


DISCIPLINE



CLIENT
HUMBLE ISD

DATE 12/18/2024
PROJECT NUMBER 220537

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM #2	01/15/25

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

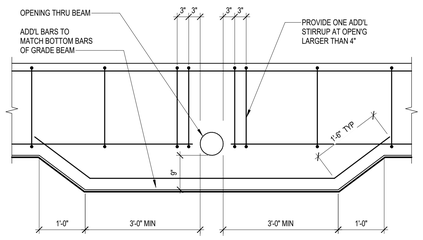
LANDSCAPE PLAN

L-102

0"
1"

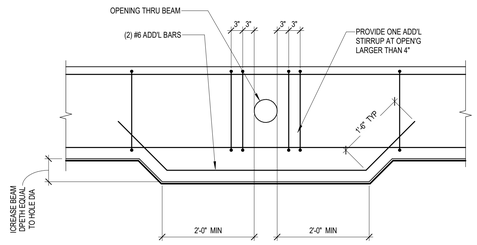
GRADE BEAM:

1. GRADE BEAM DIMENSIONS AND/OR LOCATIONS SHALL NOT BE ALTERED WITHOUT APPROVAL OF THE ENGINEER OF RECORD. SIDES OF GRADE BEAMS SHALL BE FORMED. EARTH FORMING OF GRADE BEAMS IS NOT ALLOWED UNLESS GRADE BEAMS MAY BE EARTH FORMED SO LONG AS THE SIDES ARE PLUMB AND SOUND AND ANY PORTION OF THE BEAMS/SLAB THAT EXTENDS ABOVE GRADE/ EXPOSED IS BOARD FORMED. THE WALLS MUST NOT SLOUGH OFF MORE THAN 3/4"OUT OF PLANE OF THE PLUMB LINE. WHERE THIS OCCURS A BOARD FORM MAY BE LAID IN THE EARTH TO SMOOTH THE SIDE LOCALLY AT THE IMPERFECTION TO MAINTAIN WALL FLATNESS TOLLERANCE.
2. GRADE BEAMS SHALL BE POURED MONOLITHICALLY AROUND CORNERS AND AT INTERSECTIONS. SEE TYPICAL GRADE BEAM CONSTRUCTION JOINT DETAIL FOR ACCEPTABLE CONSTRUCTION JOINT LOCATIONS.
3. GENERAL CONTRACTOR SHALL COORDINATE LOCATION, SIZE, AND ELEVATION AND INCLUDE IN HIS CONTRACT PRICE ALL REQUIRED HORIZONTAL PENETRATIONS THROUGH CONCRETE BEAMS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT. WHERE BEAM PENETRATIONS ARE REQUIRED BUT ARE NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, CONTRACTOR SHALL SUBMIT DRAWINGS SHOWING DIMENSIONS AND LOCATIONS OF ALL REQUIRED PENETRATIONS FOR REVIEW AND APPROVAL.



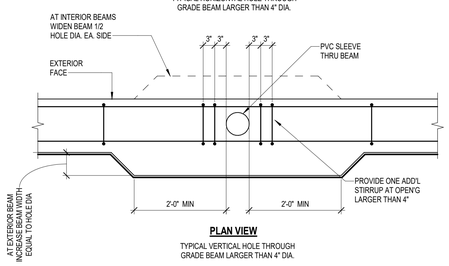
SECTION VIEW

TO BE USED WHERE OPENING CONFLICTS WITH BOTTOM BAR REINFORCMENT



SECTION VIEW

TYPICAL HORIZONTAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.



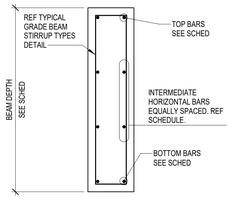
PLAN VIEW

TYPICAL VERTICAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.

4 TYPICAL GRADE BEAM PENETRATION DETAILS
NO SCALE

GRADE BEAM SCHEDULE

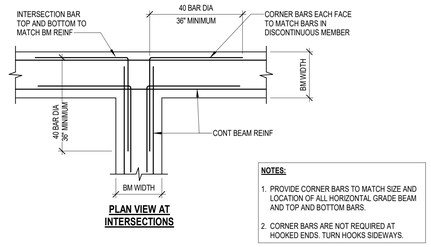
MARK	SIZE		REINFORCING			TIES		REMARKS
	WIDTH	DEPTH	TOP	BOTTOM	MIDDLE	SIZE	SPACING	
GB1	1'-4"	4'-4"	3#8	3#8	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB2	1'-6"	4'-4"	4#8	4#8	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB3	1'-8"	4'-4"	5#8	5#8	-	#4 S1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB4	2'-10"	4'-4"	7#8	7#8	-	#4 D1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB5	2'-0"	4'-4"	5#8	5#8	-	#4 D1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-
GB6	1'-2"	4'-4"	3#7	3#7	-	#4 D1	1@2", R@10"; 1@2", R @ 6" @ CANTI	-



INTERMEDIATE BAR SCHEDULE

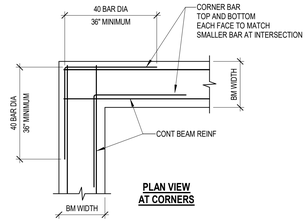
BEAM DEPTH	NUMBER OF BARS EA FACE	SIZE OF BAR
> 36" - 48"	5	#3
49" - 54"	5	#4
55" - 60"	5	#5
61" - 66"	6	#5
67" - 78"	7	#5
79" AND ABOVE	AT 9" OC	#5

1 GRADE BEAM SCHEDULE
NO SCALE



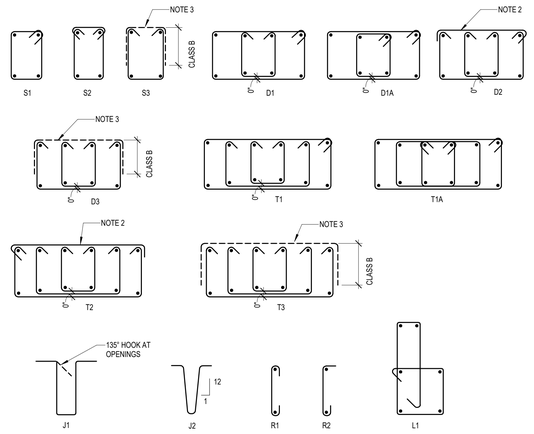
PLAN VIEW AT INTERSECTIONS

NOTES:
1. PROVIDE CORNER BARS TO MATCH SIZE AND LOCATION OF ALL HORIZONTAL GRADE BEAM AND TOP AND BOTTOM BARS.
2. CORNER BARS ARE NOT REQUIRED AT HOOKED ENDS. TURN HOOKS SIDEWAYS.



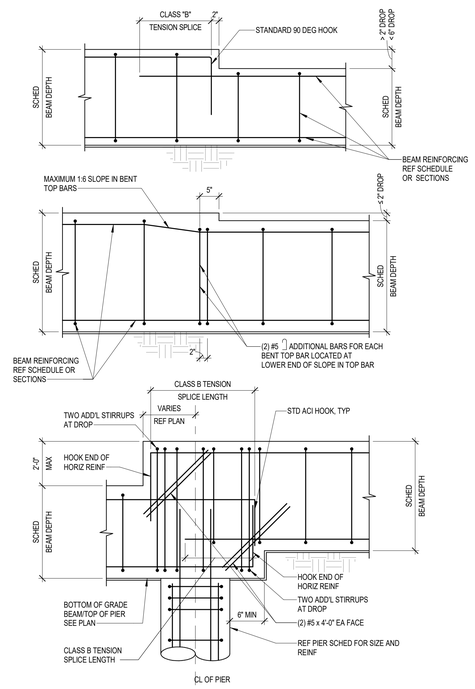
PLAN VIEW AT CORNERS

5 TYPICAL CORNER BAR DETAILS
NO SCALE



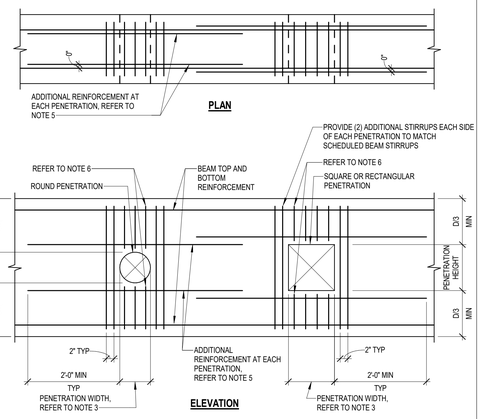
NOTES:
1. ALL HOOKS SHALL BE FABRICATED AS REQUIRED BY ACI. REFER TO "TYPICAL STIRRUP AND TIE HOOK TYPES."
2. THE TOP CAP FOR CLOSED STIRRUPS S15, S19, S24, AND S27 SHALL BE PLACED SUCH THAT THE 135° HOOK END IS NOT ON THE SIDE CONFINED BY THE SLAB.
3. PROVIDE TOP CAP FOR OPEN STIRRUPS S3, S21, S22, AND S29 TO MATCH SCHEDULED STIRRUP SIZE AT 48".

2 TYPICAL GRADE BEAM STIRRUP TYPES
3/4" = 1'-0"



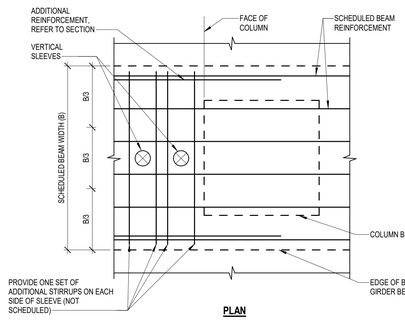
6 TYPICAL GRADE BEAM STEPDOWN DETAIL
NO SCALE

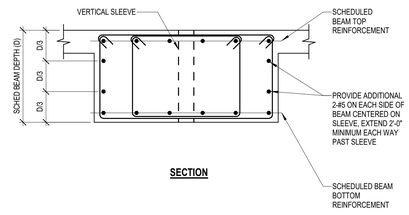
NOTES:
1. CLEAR SPACING BETWEEN PENETRATIONS SHALL BE 24" MINIMUM UNLESS NOTED OTHERWISE BY THE STRUCTURAL ENGINEER.
2. PENETRATIONS SHALL BE LOCATED ACCORDING TO THE FOLLOWING CRITERIA:
   a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS LOCATE PENETRATIONS WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
   b. FOR BEAMS SUPPORTING INTERSECTING BEAMS CHECK WITH STRUCTURAL ENGINEER.
3. PENETRATION WIDTH MUST NOT EXCEED PENETRATION HEIGHT, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
4. FOR LOCATIONS AND/OR SIZES OF PENETRATIONS NOT CONFORMING TO THE ABOVE CRITERIA AND NOT OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE STRUCTURAL ENGINEER.
5. PROVIDE THE FOLLOWING REINFORCEMENT AT EACH SLEEVE, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS:
   1-#5 TOP AND BOTTOM AT BEAMS WITH WIDTHS LESS THAN 9".
   2-#5 TOP AND BOTTOM AT BEAMS WITH 2-LEG STIRRUPS.
   4-#5 TOP AND BOTTOM AT BEAMS WITH 4-LEG STIRRUPS.
   "N"-#5 TOP AND BOTTOM AT BEAMS WITH "N"-LEG STIRRUPS.
6. PROVIDE ADDITIONAL STIRRUPS ABOVE AND BELOW PENETRATIONS AT SPACING NOT TO EXCEED ONE THIRD OF THE SCHEDULED STIRRUP SPACING, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.
7. SCHEDULED BEAM STIRRUPS NOT SHOWN FOR CLARITY.



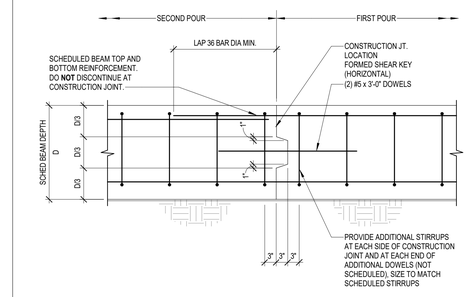
3 TYPICAL HORIZONTAL PENETRATION IN CONCRETE BEAM
NO SCALE

NOTES:
1. GENERAL CONTRACTOR SHALL COORDINATE REQUIRED BEAM SLEEVES WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS. REQUIRED SLEEVES MAY OR MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS. GENERAL CONTRACTOR SHALL SUBMIT PLAN SHOWING LAYOUT OF ALL SLEEVES WITH FORMWORK SHOP DRAWING SUBMITTAL.
2. SLEEVES SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SCHEDULED BEAM WIDTH.
3. CONTINUOUS BEAM REINFORCEMENT MAY BE SLIGHTLY DISPLACED (3" MAXIMUM) OR ADJACENT BARS BUNDLED (2 BAR BUNDLES MAXIMUM) TO FACILITATE SLEEVE INSTALLATION. DO NOT CUT, OFFSET, OR BEND REINFORCEMENT.
4. SLEEVES OCCURRING ON OPPOSITE SIDES OF A COLUMN MUST BE IN LINE.
5. THE OUTSIDE DIAMETER OF A SLEEVE MAY NOT EXCEED 15% OF THE SCHEDULED WIDTH OF THE BEAM THROUGH WHICH IT MUST PASS.
6. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD WHEN A SLEEVE SIZE OR LOCATION DOES NOT MEET THE ABOVE CONDITIONS.
7. SCHEDULED BEAM STIRRUPS NOT SHOWN FOR CLARITY.





9 TYPICAL VERTICAL PENETRATION IN CONCRETE BEAM
NO SCALE

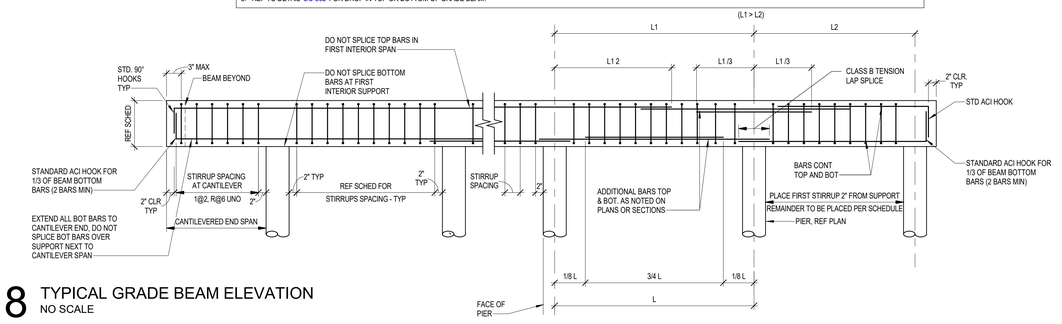


ELEVATION VIEW

NOTES:
1. LOCATE JOINTS IN MIDDLE THIRD OF BEAM SPAN BETWEEN SUPPORTS.
2. ACCEPTABLE JOINT LOCATIONS ARE AS FOLLOWS:
   a. FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS, PLACE JOINT WITHIN MIDDLE THIRD OF SPAN.
   b. FOR BEAMS SUPPORTING INTERSECTING BEAMS, CHECK WITH STRUCTURAL ENGINEER FOR JOINT LOCATIONS AND DOWEL REQUIREMENTS.
3. FOR JOINT LOCATIONS OTHER THAN WITHIN MIDDLE THIRD OF SPAN, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE SHOP DRAWINGS.
4. JOINTS MAY NOT OCCUR IN THE FIRST SPAN OF A BEAM LINE OR IN ANY SPAN WHICH IS LESS THAN 8 FEET.
5. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO POUR.

7 TYPICAL GRADE BEAM CONSTRUCTION JOINT
NO SCALE

NOTES:
1. TOP CONT BARS MAY BE SPLICED AT MID-SPAN OF BEAM ONLY. EXCEPT AT CANTILEVER SPANS, SPANS ADJACENT TO CANTILEVER SPANS AND SPANS WITH LENGTH NOT GREATER THAN ONE HALF OF THE ADJACENT SPAN LENGTH.
2. ALL HOOKS SHOWN ARE STANDARD HOOKS (90° OR 180°).
3. SPLICES IN SCHEDULED BARS LESS THAN 60'-0" LENGTH ARE ONLY PERMITTED AT THE SPECIFIED LOCATIONS SHOWN. SPLICES IN SCHEDULED BARS MORE THAN 60'-0" LENGTH SHALL BE REFERRED TO ENGINEER FOR APPROVAL.
4. BEAMS WITH DEPTH OF 36" OR LESS, DO NOT NEED INTERMEDIATE BARS UNLESS REQUIRED BY BEAM SCHEDULE. REF 1/S-302
5. REF TO DETAIL 6/S-302 FOR DROP IN TOP OR BOTTOM OF GRADE BEAM.



8 TYPICAL GRADE BEAM ELEVATION
NO SCALE

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832-767-7858

MEP
LEAF ENGINEERS
713-940-3300

HUMBLE HIGH SCHOOL ADDITIONS AND RENOVATIONS - PHASE TWO

1700 WILSON RD.
HUMBLE, TX 77338

ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT
HUMBLE, TEXAS
HARRIS COUNTY

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
STATE OF TEXAS
JOHN R. KUBALA
106120
LICENSED PROFESSIONAL ENGINEER
01/17/2025
Kubala Engineers
F-23612

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
01/17/2025	220537

DRAWING HISTORY

No.	Description	Date
1	ADDENDUM 02	01/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

GENERAL GRADE BEAM NOTES AND TYP DETAILS

S-302

Kubala ENGINEERS
Ph: (800)246-3674
www.kubalaengineers.com
TX. REG. NO. F-23612

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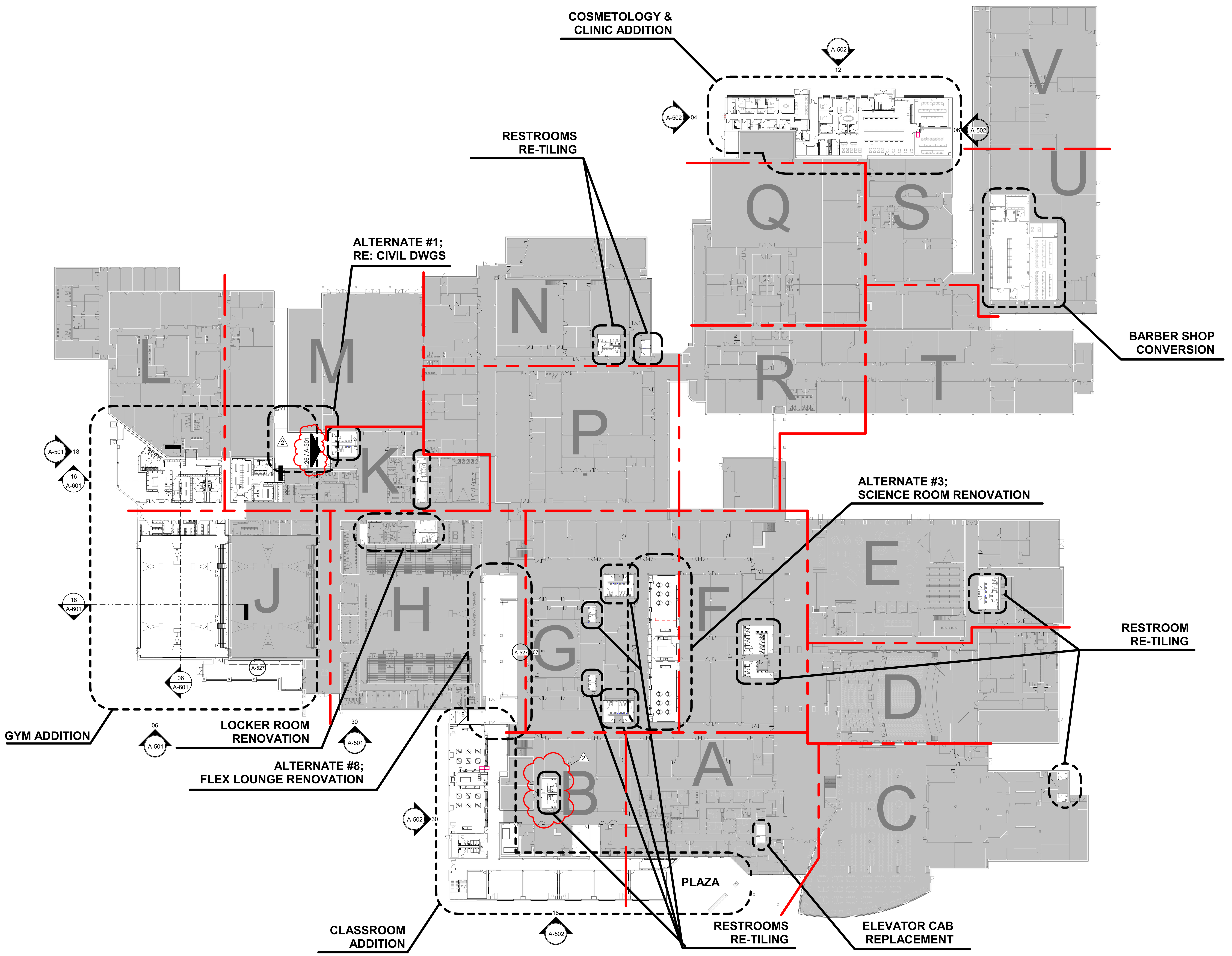
CHECKED BY: Checker
DRAWN BY: Author
Plot Stamp: 1/17/2025 11:45:30 AM



06 1ST LEVEL - FLOOR PLAN - COMPOSITE
1" = 40'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
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4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
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16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
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KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL
BUILDING NUMBER n/a

1ST LEVEL - FLOOR PLAN - COMPOSITE

A-001

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1ST LEVEL - FLOOR PLAN - COMPOSITE
A-001
FOR BLUEBEAM LABELING/OCR:

DOOR SCHEDULE AREA B

DATA		PANEL						FRAME						GENERAL		
											DETAILS					
MARK	NAME	WIDTH	HEIGHT	ELEVATION	THK	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	SILL	HEAD	JAMB	FIRE RATING	HARDWARE	REMARKS
1043	MECH	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	B-21/A-832	07/A-832	02/A-832		22.0	
1115A	SCIENCE CLASSROOM 01	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM		HM	PAINTED	H-21/A-832	07/A-832	02/A-832		26.0	
1115B	SCIENCE CLASSROOM 01	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM		HM	PAINTED	H-21/A-832	07/A-832	02/A-832		26.0	
1116A	PREP	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	-	07/A-832	02/A-832		36.0	
1116B	PREP	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	-	07/A-832	02/A-832		36.0	
1116C	CHEMICAL STORAGE	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED		07/A-832	02/A-832		17.0	
1117A	SCIENCE CLASSROOM 02	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM		HM	PAINTED	H-21/A-832	07/A-832	02/A-832		26.0	
1117B	SCIENCE CLASSROOM 02	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM		HM	PAINTED	H-21/A-832	07/A-832	02/A-832		26.0	
1118	GIRLS	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		38.0	
1119	BOYS	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		38.0	
1120	STORAGE	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	H-21/A-832	07/A-832	02/A-832		19.0	
1121	CLASSROOM 01	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM		HM	PAINTED	F-21/A-832	07/A-832	02/A-832		29.0	
1122	CLASSROOM 02	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM		HM	PAINTED	F-21/A-832	07/A-832	02/A-832		29.0	
1123	CLASSROOM 03	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM		HM	PAINTED	F-21/A-832	07/A-832	02/A-832		29.0	
1124	CLASSROOM 04	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM		HM	PAINTED	F-21/A-832	07/A-832	02/A-832		29.0	
1125	CLASSROOM 05	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM		HM	PAINTED	F-21/A-832	07/A-832	02/A-832		29.0	
1127	CORRIDOR	7'-0"	6'-10"	G-2	1 3/4"	SCPL	CLR ANO.		AL	CLR ANO.	02/A-831	08/A-831	14/A-831		2.0	CARD READER
1128	FDC	3'-0"	6'-10"	F	1 3/4"	HM	PAINTED	001	HM	PAINTED	01/A-831	07/A-831	13/A-831		29.0	
1129	CORRIDOR	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		17.0	
1164	LIFE SKILLS	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	J-21/A-832	07/A-832	02/A-832		29.0	
A1015	CORRIDOR	6'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		14.0	

STOREFRONT SCHEDULE AREA B

MARK	FRAME		ELEVATION	MATERIAL	FINISH	DETAIL			REMARKS
	WIDTH	HEIGHT				SILL	HEAD	JAMB	
1115A	15'-0"	7'-0"	TYPE 12	AL	CLR. ANOD.	06/A-831	12/A-831	03/A-831	PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
1115B	15'-0"	7'-0"	TYPE 12	AL	CLR. ANOD.	06/A-831	12/A-831	03/A-831	PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
1117A	15'-0"	7'-0"	TYPE 12	AL	CLR. ANOD.	06/A-831	12/A-831	03/A-831	PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
1117B	15'-0"	7'-0"	TYPE 12	AL	CLR. ANOD.	06/A-831	12/A-831	03/A-831	PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
1121	15'-0"	7'-0"	TYPE 12	AL	CLR. ANOD.	06/A-831	12/A-831	03/A-831	PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
1122	15'-0"	7'-0"	TYPE 12	AL	CLR. ANOD.	06/A-831	12/A-831	03/A-831	PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
1123	15'-0"	7'-0"	TYPE 12	AL	CLR. ANOD.	06/A-831	12/A-831	03/A-831	PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
1124	15'-0"	7'-0"	TYPE 12	AL	CLR. ANOD.	06/A-831	12/A-831	03/A-831	PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
1125A	15'-0"	7'-0"	TYPE 12	AL	CLR. ANOD.	06/A-831	12/A-831	03/A-831	PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
1127	10'-0"	10'-0"	TYPE 13	AL	CLR. ANOD.	17/A-831	12/A-831 SIM	03/A-831 SIM	PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR

2

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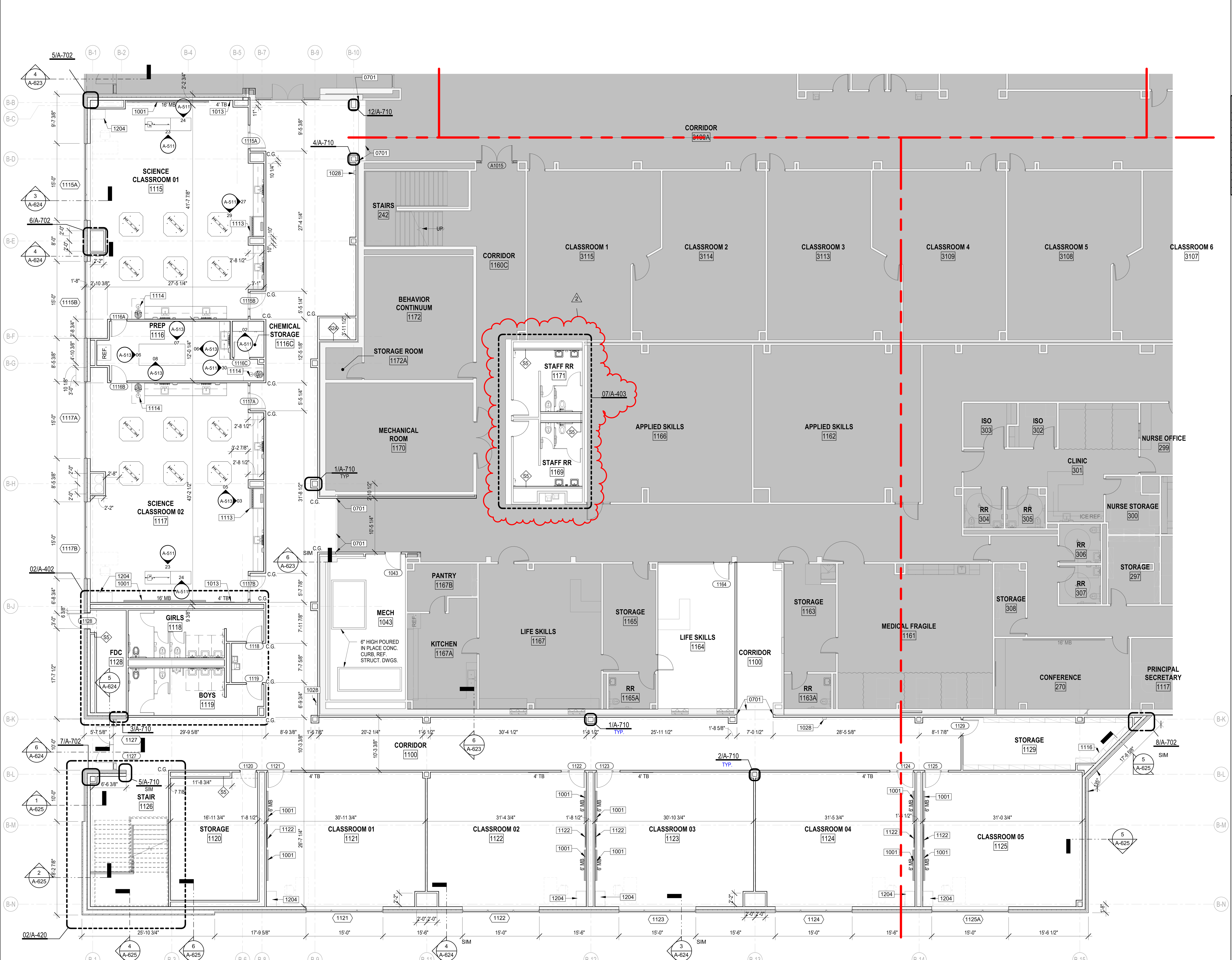
KEYNOTE LEGEND

NUMBER	DESCRIPTION
0701	PROVIDE EXPANSION JOINT W/ COVER
1001	WALL MOUNTED MARKERBOARD; RE: SPECS
1013	WALL MOUNTED TACKBOARD; RE: SPECS
1028	FIRE EXTINGUISHER
1113	FUME EXHAUST HOOD; RE: SPECS
1114	EMERGENCY EYEWASH / EYEWASH STATION; RE: MEPT
1116	INDUSTRIAL METAL SHELVING; RE: SPECS
1122	SMART SCREEN, PROVIDE BLOCKING, O.F.C.I
1204	TYPICAL TEACHER WARDROBE CABINET; RE: 27/A5-13



06 1ST LEVEL - FLOOR PLAN AREA B
1/8" = 1'-0"

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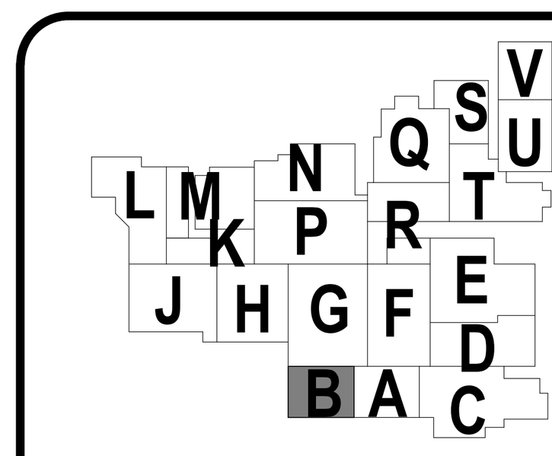
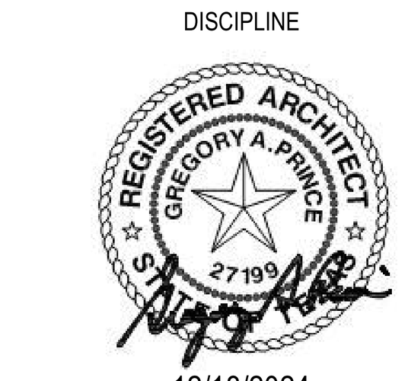


KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE


12/18/2024

CLIENT
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DATE	PROJECT NUMBER
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2	Addendum #2	1/17/2025

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BUILDING NUMBER **n/a**

1ST LEVEL - FLOOR PLAN - AREA B

A-101B

1ST LEVEL - FLOOR PLAN - AREA B
A-101B
FOR BLUEBEAM LABELING OCR:

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Author
Plot Stamp:
1/15/2025 10:53:45 AM

1ST LEVEL - FLOOR PLAN - AREA C
A-101C
FOR BLUEBEAM LABELING/OCR:

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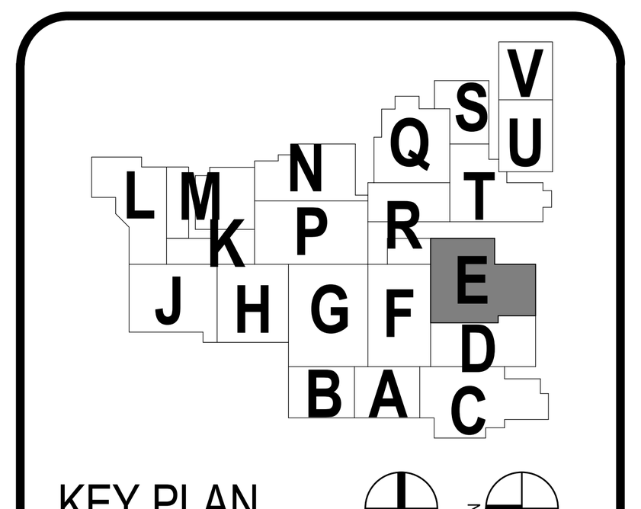

DISCIPLINE

12/18/2024

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1ST LEVEL - FLOOR PLAN - AREA C

A-101C

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DRAWN BY:
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Plot Stamp:
1/15/2025 7:11:37 PM
File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

DOOR SCHEDULE AREA E

DATA		PANEL						FRAME			DETAILS			GENERAL		
MARK	NAME	WIDTH	HEIGHT	ELEVATION	THK	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	SILL	HEAD	JAMB	FIRE RATING	HARDWARE	REMARKS
2161A	CUSTODIAL STORAGE	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	-	07/A-832	02/A-832		16.0	

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A801 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE S5 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK
25. PROVIDE PLYWOOD IN METAL STUD WALL PARTITION FOR SUPPORT OF ALL TV LOCATIONS.

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

ARCHITECT PBK Architects, Inc.
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713-961-4571 F
TX Firm: F-1608

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KUBALA ENGINEERS
T 832-737-2639

MEPT
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LANDSCAPE
GREENSCAPE ASSOCIATES
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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

KEY PLAN

DISCIPLINE

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

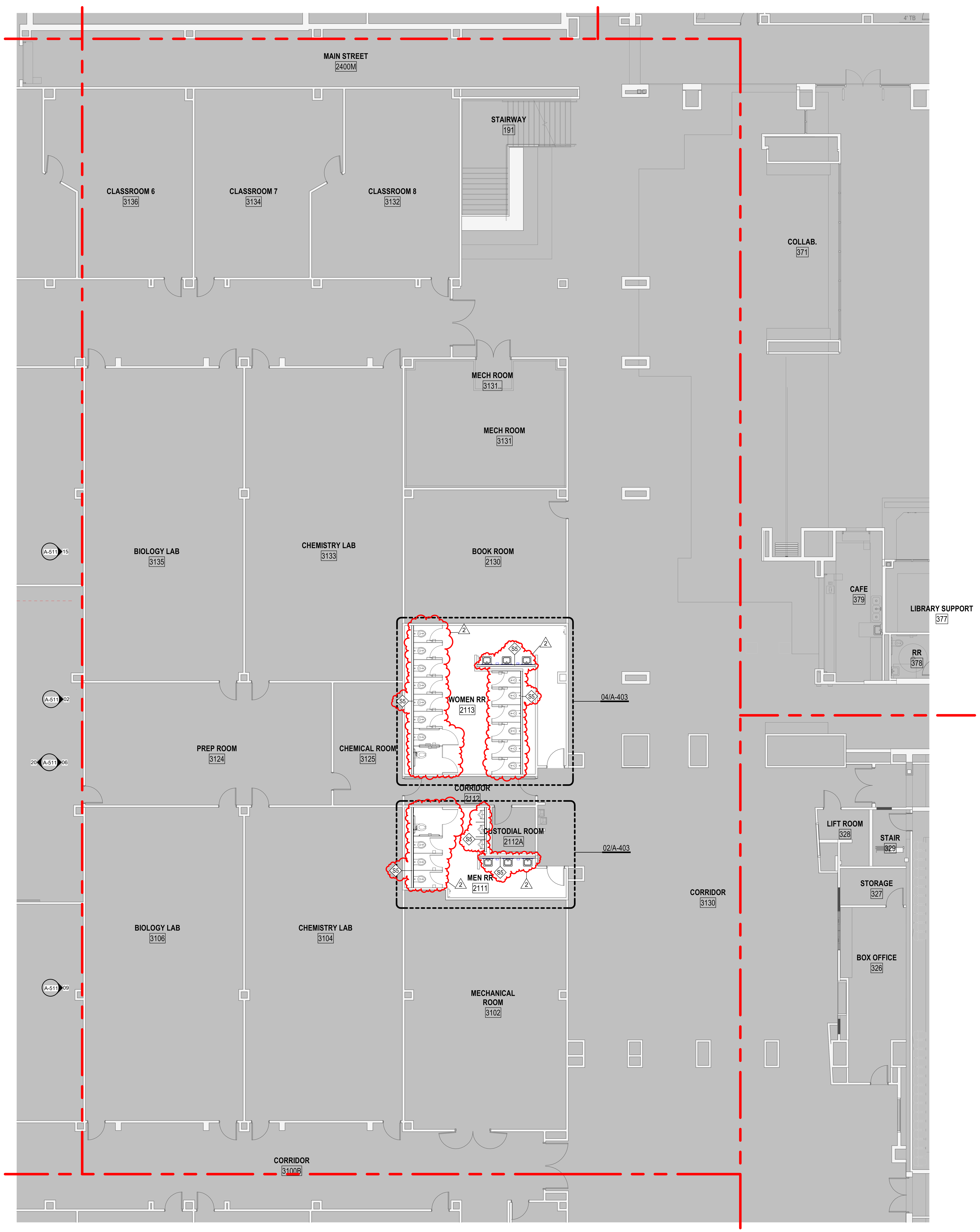
1ST LEVEL - FLOOR PLAN - AREA E

A-101E

CHECKED BY: Checker
DRAWN BY: Author
Plot Stamp: 1/14/2025 1:49:59 PM

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

1ST LEVEL - FLOOR PLAN - AREA E
A-101E
FOR BLUEBEAM LABELING OCR:



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

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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
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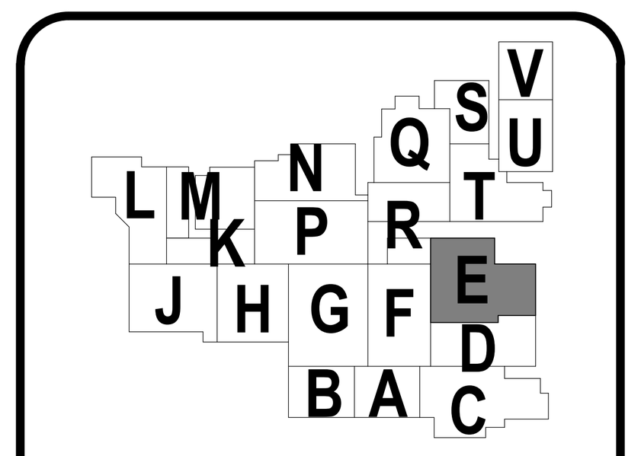
ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT · HUMBLE, TEXAS · HARRIS COUNTY



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT · GREGORY A. PRINCE · 27195

12/18/2024

CLIENT
Humble ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

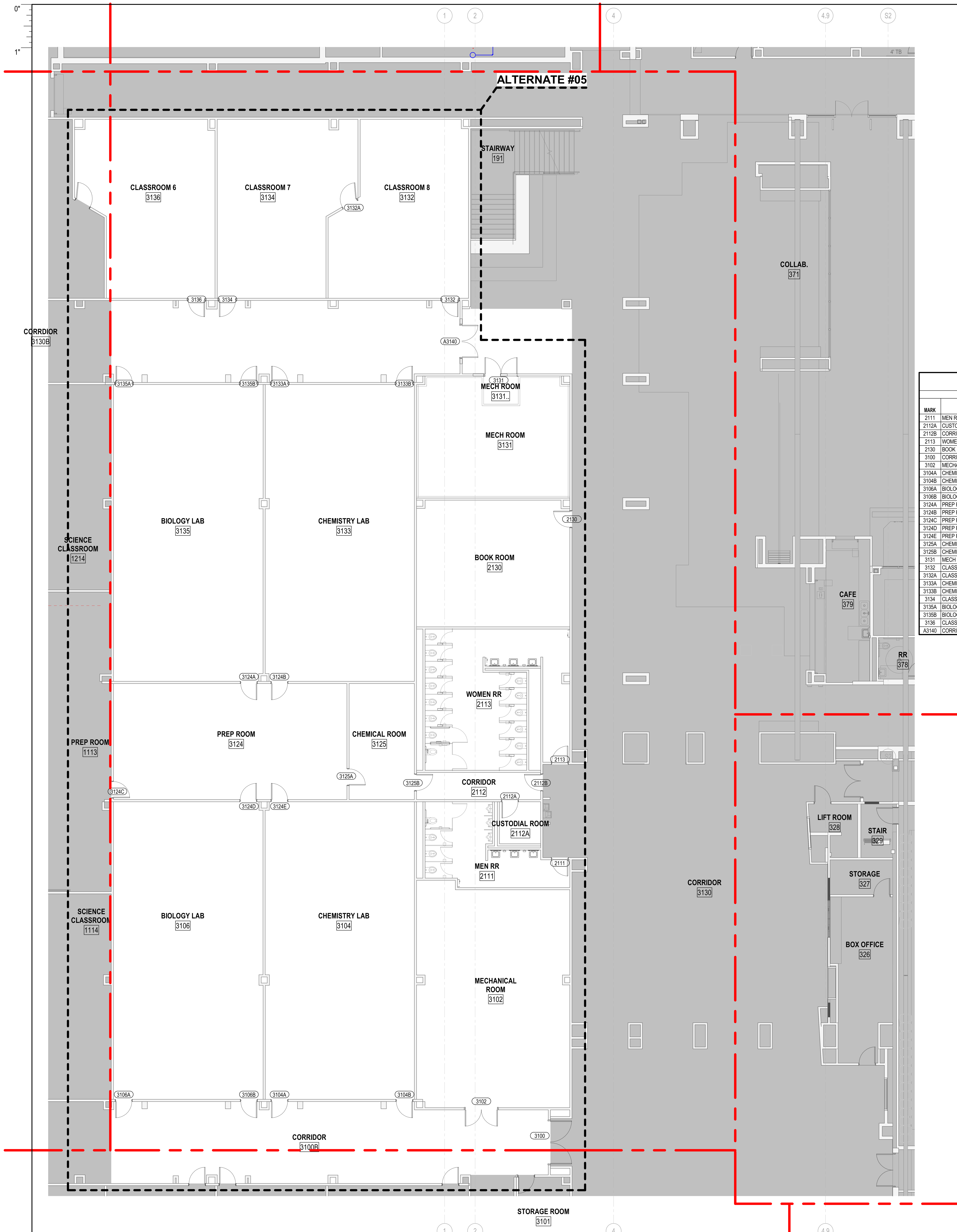
1ST LEVEL - FLOOR PLAN - AREA F

A-101F

1ST LEVEL - FLOOR PLAN - AREA F
A-101F
FOR BLUEBEAM LABELING OCR:

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

CHECKED BY:
Checker
DRAWN BY:
Author
Plot Stamp:
1/14/2025 12:34:28 PM



06 1ST LEVEL - FLOOR PLAN AREA F - ALTERNATE #05
1/8" = 1'-0"

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DOOR SCHEDULE AREA F (ALTERNATE #05)

DATA		PANEL						FRAME						GENERAL		
											DETAILS					
MARK	NAME	WIDTH	HEIGHT	ELEVATION	THK	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	SILL	HEAD	JAMB	FIRE RATING	HARDWARE	REMARKS
2111	MEN RR	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	G-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		38.0	VERIFY EXISTING DOOR IN FIELD
2112A	CUSTODIAL ROOM	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	B-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		22.0	VERIFY EXISTING DOOR IN FIELD
2112B	CORRIDOR	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	G-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		19.0	VERIFY EXISTING DOOR IN FIELD
2113	WOMEN RR	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	G-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		38.0	VERIFY EXISTING DOOR IN FIELD
2130	BOOK ROOM	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	J-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		19.0	VERIFY EXISTING DOOR IN FIELD
3100	CORRIDOR	8'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	G-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		12.0	VERIFY EXISTING DOOR IN FIELD
3102	MECHANICAL ROOM	6'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	B-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN	45 MINS	9.0	VERIFY EXISTING DOOR IN FIELD
3104A	CHEMISTRY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3104B	CHEMISTRY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3106A	BIOLOGY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3106B	BIOLOGY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3124A	PREP ROOM	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	01/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		35.0	VERIFY EXISTING DOOR IN FIELD
3124B	PREP ROOM	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	01/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		35.0	VERIFY EXISTING DOOR IN FIELD
3124C	PREP ROOM	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	01/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		19.0	VERIFY EXISTING DOOR IN FIELD
3124D	PREP ROOM	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	01/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		35.0	VERIFY EXISTING DOOR IN FIELD
3124E	PREP ROOM	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	01/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		35.0	VERIFY EXISTING DOOR IN FIELD
3125A	CHEMICAL ROOM	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	01/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		17.0	VERIFY EXISTING DOOR IN FIELD
3125B	CHEMICAL ROOM	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		19.0	VERIFY EXISTING DOOR IN FIELD
3131	MECH ROOM	6'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	B-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN	45 MINS	9.0	VERIFY EXISTING DOOR IN FIELD
3132	CLASSROOM 8	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	J-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		29.0	VERIFY EXISTING DOOR IN FIELD
3132A	CLASSROOM 7	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	C-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		34.0	VERIFY EXISTING DOOR IN FIELD
3133A	CHEMISTRY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3133B	CHEMISTRY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3134	CLASSROOM 7	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	J-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		29.0	VERIFY EXISTING DOOR IN FIELD
3135A	BIOLOGY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3135B	BIOLOGY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3136	CLASSROOM 6	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	J-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		29.0	VERIFY EXISTING DOOR IN FIELD
A3140	CORRIDOR	6'-0"	7'-0"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	G-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		12.0	VERIFY EXISTING DOOR IN FIELD

PBK

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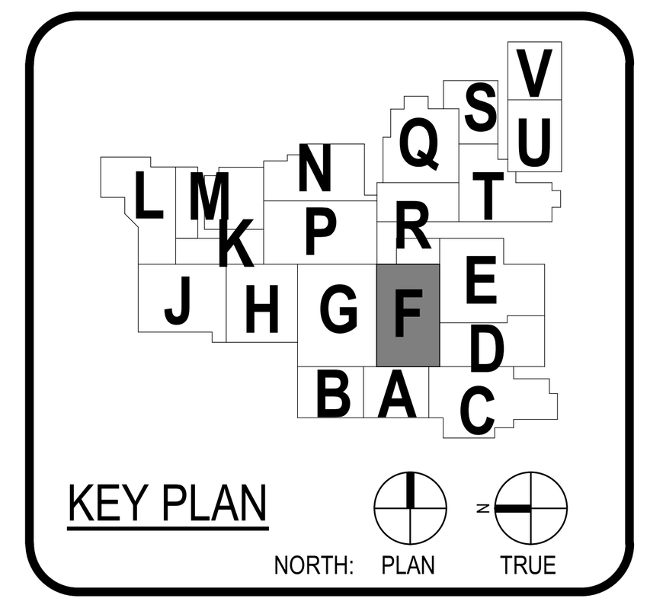
HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

17700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT



DISCIPLINE

REGISTERED ARCHITECT GREGORY A. PRINCE 27199 STATE OF TEXAS
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	1/9/2025
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - FLOOR PLAN - AREA F - ALTERNATE #05

A-101F.1

CHECKED BY:
Checker
DRAWN BY:
Author
Plot Stamp:
1/10/2025 11:30:59 AM

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

DOOR SCHEDULE AREA G

DATA		PANEL						FRAME						GENERAL		
											DETAILS					
MARK	NAME	WIDTH	HEIGHT	ELEVATION	THK	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	SILL	HEAD	JAMB	FIRE RATING	HARDWARE	REMARKS
A1021	CORRIDOR	6'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	01/A-832	07/A-832	02/A-832		14.0	

06 1ST LEVEL - FLOOR PLAN AREA G
1/8" = 1'-0"

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NUMBER	DESCRIPTION

PBK

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
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LANDSCAPE
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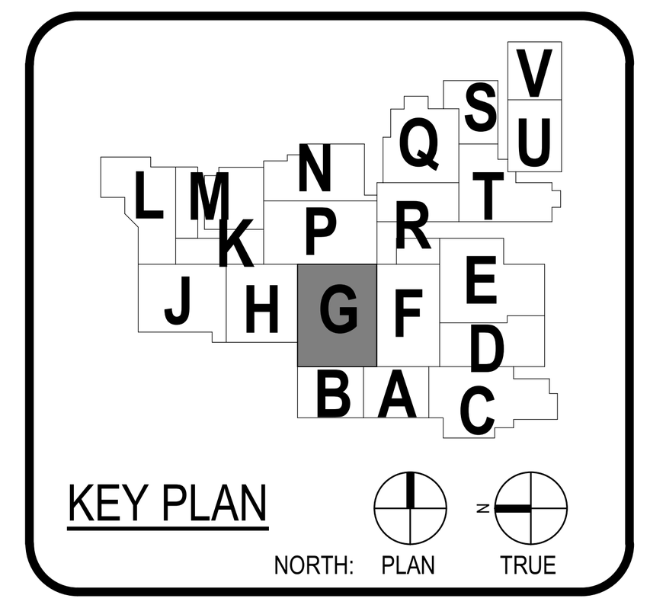
HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

17700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09



DISCIPLINE
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - FLOOR PLAN - AREA G

A-101G

A-101G
1ST LEVEL - FLOOR PLAN - AREA G
FOR BLUEBEAM LABELING OCR:

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

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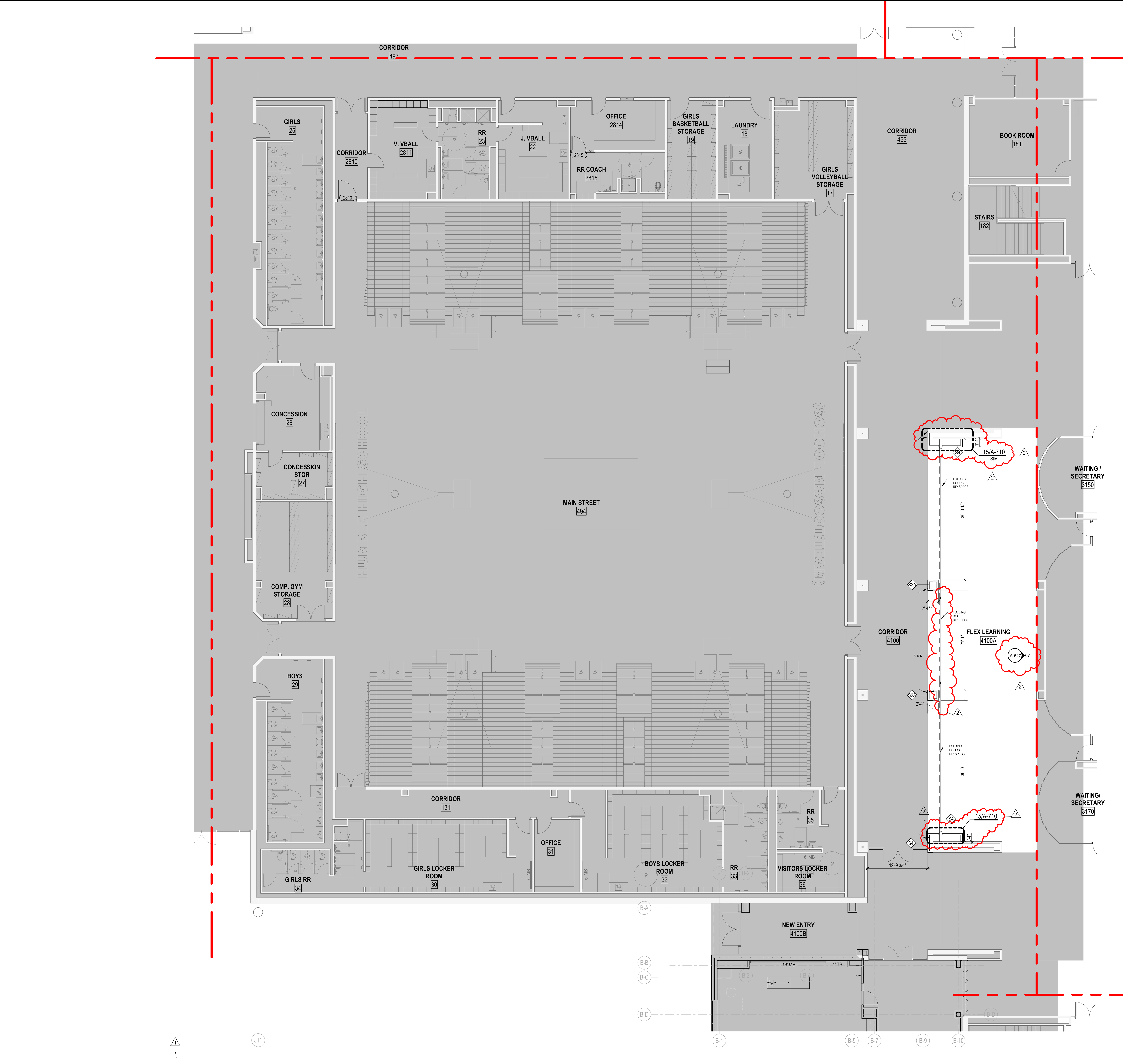
Plot Stamp: 1/15/2025 7:16:29 PM

FOR BLUEBEAM LABELING OCR:
A-101H.1
1ST LEVEL - FLOOR PLAN - AREA H.1 - ALTERNATE #07



1 1ST LEVEL - FLOOR PLAN AREA H ALTERNATE #07
1/8" = 1'-0"

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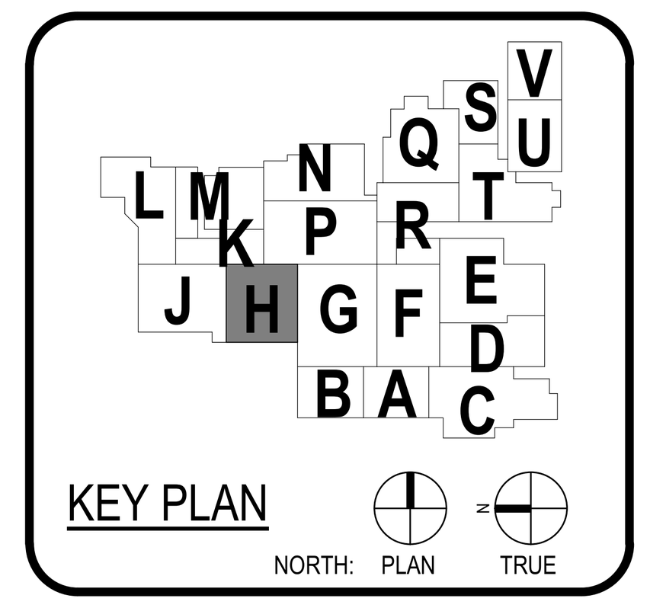

DISCIPLINE
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	1/9/2025
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - FLOOR PLAN - AREA H.1 - ALTERNATE #07

A-101H.1

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

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Author
Plot Stamp:
1/10/2025 2:45:46 PM

FOR BLUEBEAM LABELING OCR:
A-101K
1ST LEVEL - FLOOR PLAN - AREA K

DOOR SCHEDULE AREA K

DATA		PANEL						FRAME						GENERAL		
											DETAILS					
MARK	NAME	WIDTH	HEIGHT	ELEVATION	THK	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	SILL	HEAD	JAMB	FIRE RATING	HARDWARE	REMARKS
2841	COACH RR	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	H-21/A-832	23/A-832	22/A-832		38.0	
4141	BOYS TENNIS, WRESTLING, JROTC	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	01/A-832	23/A-832	22/A-832		38.0	
4142A1	VESTIBULE	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	H-21/A-832	23/A-832	22/A-832		39.0	
4142A2	BOYS TENNIS, WRESTLING, JROTC	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	01/A-832	23/A-832	22/A-832		38.0	
4142B1	VESTIBULE	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	H-21/A-832	23/A-832	22/A-832		39.0	
4142B2	BOYS TENNIS, WRESTLING, JROTC	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	01/A-832	23/A-832	22/A-832		38.0	
4148	RR	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	01/A-832	23/A-832	22/A-832		38.0	
A129B	OUTDOOR WORKOUT	3'-0"	6'-10"	F	1 3/4"	HM	PAINTED	001	HM	PAINTED	01/A-831	07/A-831	13/A-831		6.0	

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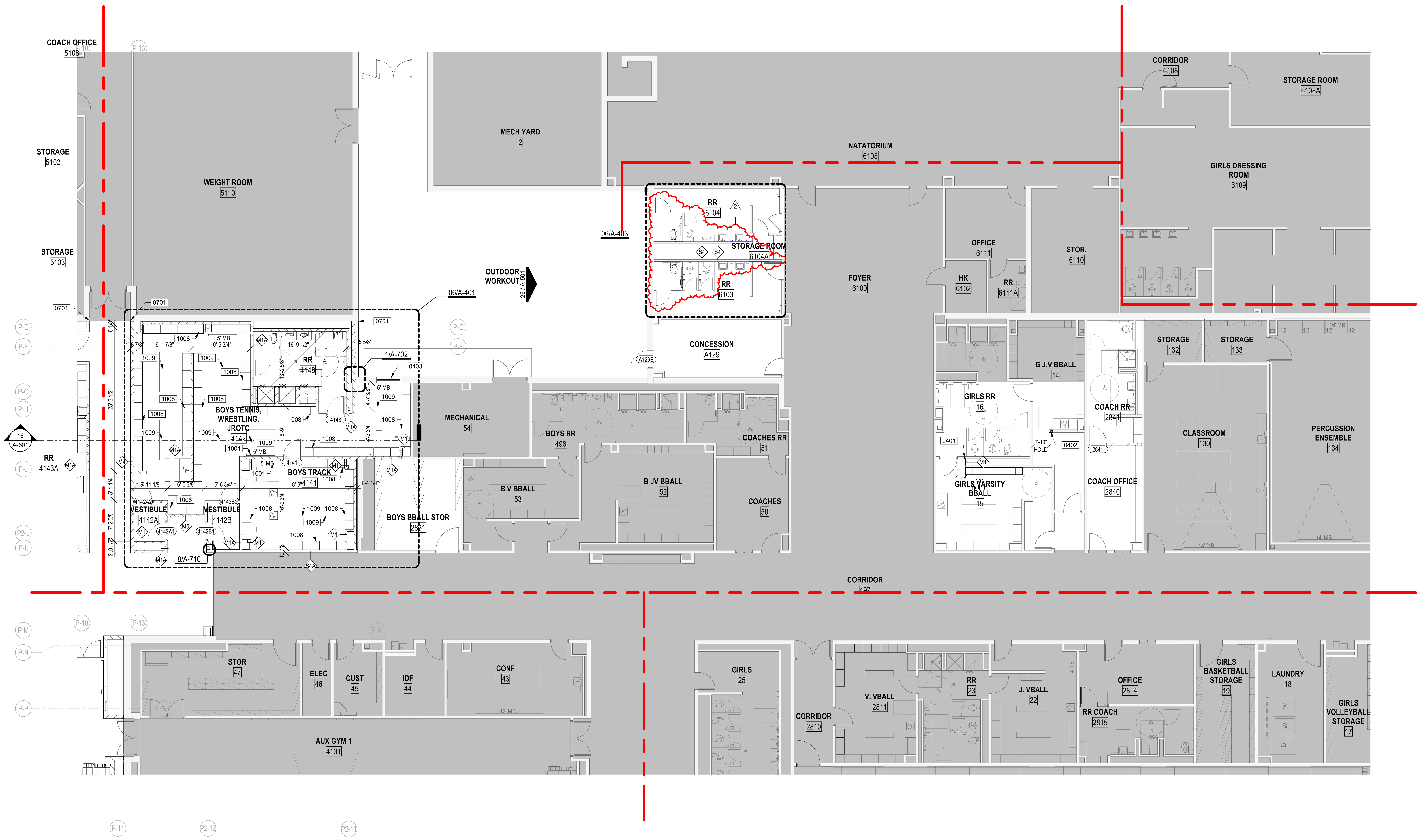
KEYNOTE LEGEND

NUMBER	DESCRIPTION
0401	PROVIDE 2" NOM. SOLID CMU INFILL. PAINT TO MATCH EXISTING WALL
0402	PROVIDE 6"X8" NOM. CMU BOND BEAM WITH BULLNOSE CORNERS AS INDICATED. REFER TO STRUCT. DWGS. FOR ADDITONAL INFORMATION
0403	INFILL WITH EXTERIOR BRICK WALL ON 6" CMU BACK-UP. BRICK SIZE, TYPE AND COLOR TO MATCH EXISTING. PROVIDE MOISTURE BARRIER AT EXTERIOR FACE OF CMU. PROVIDE 2"THICK RIGID INSULATION OVER MOISUTRE BARRIER.
0701	PROVIDE EXPANSION JOINT W/ COVER
1001	WALL MOUNTED MARKERBOARD; RE: SPECS
1008	LOCKERS, TYP; RE: PLAN AND 24/A-401 FOR TYPE; RE: SPECS
1009	LOCKER ROOM BENCH; RE: SPECS



06 1ST LEVEL - FLOOR PLAN AREA K
1/8" = 1'-0"

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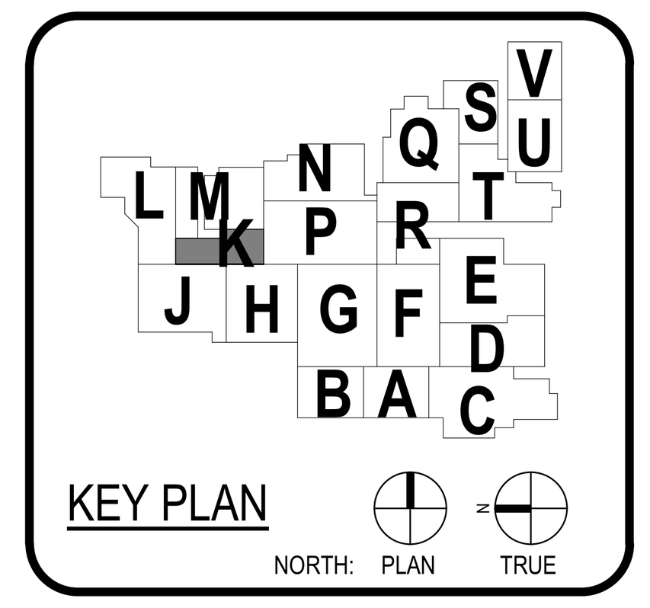
HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09



DISCIPLINE

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - FLOOR PLAN - AREA K

A-101K

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Plot Stamp: 1/14/2025 2:12:05 PM
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FOR BLUEBEAM LABELING OCR:
A-101N
1ST LEVEL - FLOOR PLAN - AREA N

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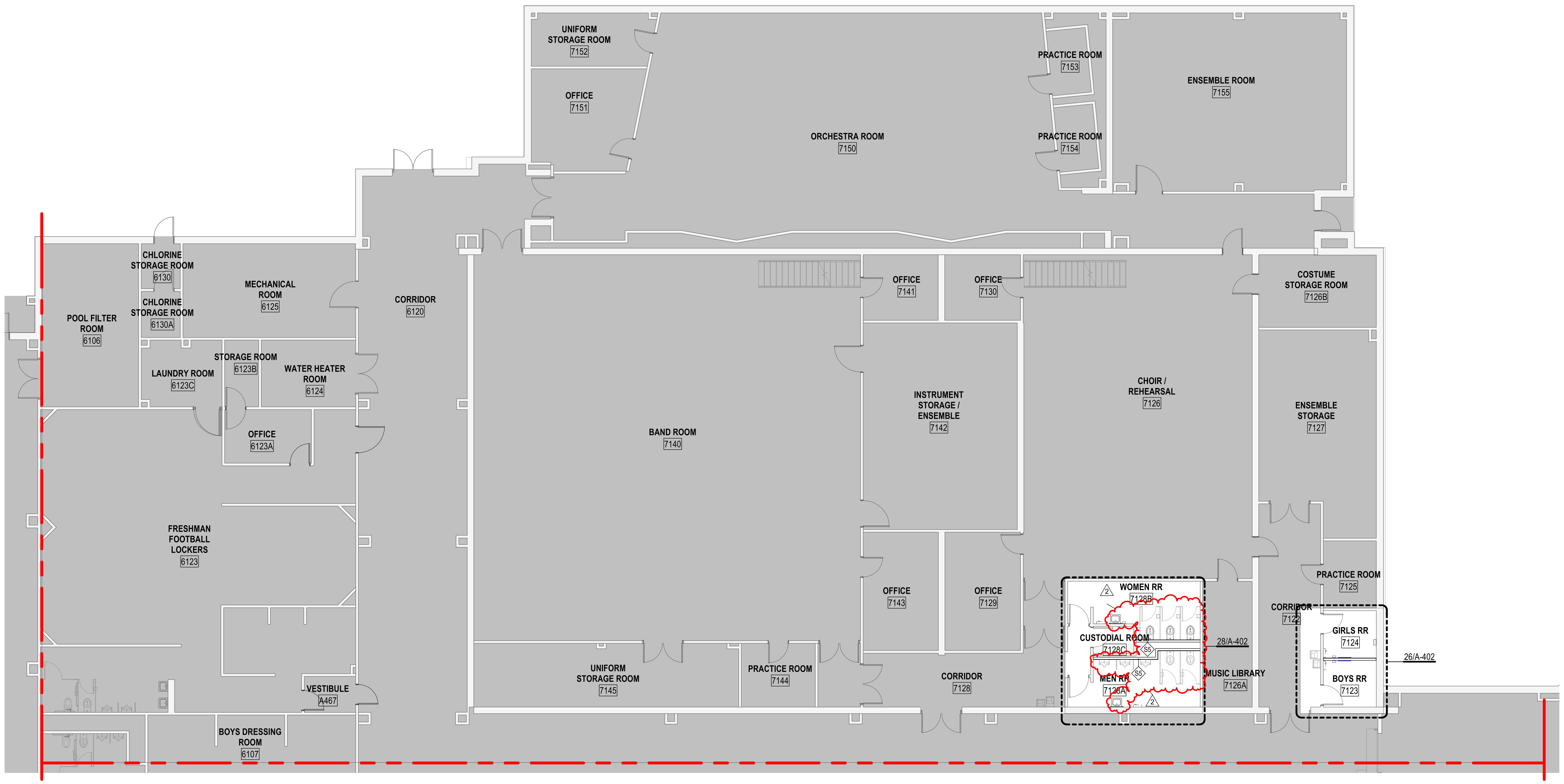

1 1ST LEVEL - FLOOR PLAN AREA N
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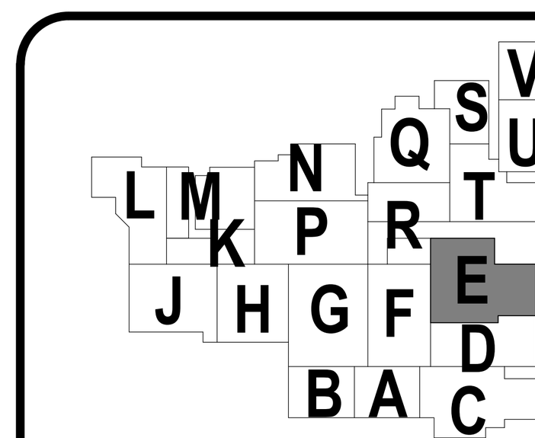
HUMBLE INDEPENDENT SCHOOL DISTRICT · HUMBLE, TEXAS · HARRIS COUNTY



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT · GREGORY A. PRINCE · 27195 · STATE OF TEXAS
12/18/2024

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HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - FLOOR PLAN - AREA N

A-101N

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Author
Plot Stamp:
1/14/2025 2:51:54 PM

DOOR SCHEDULE AREA S

MARK	NAME	PANEL WIDTH	PANEL HEIGHT	PANEL ELEVATION	PANEL THK	PANEL MATERIAL	PANEL FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME DETAILS SILL	FRAME DETAILS HEAD	FRAME DETAILS JAMB	GENERAL FIRE RATING	GENERAL HDWR	GENERAL REMARKS
9100	RECEPTION	6'-0"	6'-10"	G-2	1 3/4"	AL	CLR ANO.		AL	CLR ANO.	02/A-831	08/A-831	14/A-831		2.0	CARD READER
9101	COSMETOLOGY LAB	3'-0"	6'-10"	NV-1	1 3/4"	AL	CLR ANO.		AL	CLR ANO.	G-03/A-832	09/A-832	05/A-831		7.0	CARD READER
9101B	COSMETOLOGY LAB	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	--	PAINTED	-	-	-		20.0	
9102	CLASSROOM	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	C-21/A-832	07/A-832	02/A-832		29.0	
9103	CLASSROOM	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	C-21/A-832	07/A-832	02/A-832		29.0	
9105	OFFICE	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	J-21/A-832	07/A-832	02/A-832		25.0	
9106	R.R.	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	H-21/A-832	07/A-832	02/A-832		42.0	
9107	R.R.	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	J-21/A-832	07/A-832	02/A-832		41.0	
9108	CONFERENCE	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	C-21/A-832	07/A-832	02/A-832		25.0	
9109	OFFICE C	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	C-21/A-832	07/A-832	02/A-832		25.0	
9110	RECEPTION	6'-0"	6'-10"	G-2	1 3/4"	AL	CLR ANO.		AL	CLR ANO.	02/A-831	08/A-831	14/A-831		4.0	CARD READER
9111	CORRIDOR	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	P-21/A-832	07/A-832	02/A-832		17.0	
9112	CORRIDOR	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	C-21/A-832	07/A-832	02/A-832		26.0	
9116	DISPENSARY	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	C-21/A-832	07/A-832	02/A-832		24.0	DUTCH DOOR
9117	STORAGE	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	J-21/A-832	07/A-832	02/A-832		17.0	
9118	IDF	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	B-21/A-832	07/A-832	02/A-832		22.0	
9119	JANITOR	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	B-21/A-832	07/A-832	02/A-832		22.0	
9120	ELEC	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	B-21/A-832	07/A-832	02/A-832		22.0	CARD READER
9121	CORRIDOR	3'-0"	6'-10"	G-2	1 3/4"	AL	CLR ANO.		AL	CLR ANO.	02/A-831	08/A-831	14/A-831		4.0	CARD READER
9122A	WAITING ROOM	3'-0"	7'-0"	G-2	1 3/4"	AL	CLR ANO.		AL	CLR ANO.	02/A-831	08/A-831	14/A-831		4.0	CARD READER
9122B	WAITING ROOM	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		32.0	CARD READER
9124	IDF	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	B-21/A-832	07/A-832	02/A-832		22.0	CARD READER
9125	RR	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		41.0	
9126	LAB	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		27.0	
9127	EXAM ROOM	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		43.0	
9128	PHARMACY	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		17.0	
9129	STAFF RR	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		41.0	
9130	FDC	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	N-21/A-832	07/A-832	02/A-832		19.0	
9131	CORRIDOR	3'-0"	6'-10"	HG-2	1 3/4"	AL	CLR ANO.		AL	CLR ANO.	02/A-831	11/A-831	05/A-831		4.0	CARD READER
9132	CONFERENCE ROOM	3'-0"	6'-10"	G-2	1 3/4"	AL	CLR ANO.		AL	CLR ANO.	G-03/A-832	09/A-832	08/A-832		33.0	
9133	OFFICE	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	J-21/A-832	07/A-832	02/A-832		25.0	
9134	EXAM ROOM	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		43.0	
9135	EXAM ROOM	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		25.0	
9136	OFFICE	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		25.0	
9137	BREAK ROOM	3'-0"	6'-10"	NV-1	1 3/4"	SCPL	PLAM	001	HM	PAINTED	F-21/A-832	07/A-832	02/A-832		27.0	
9138	STORAGE	3'-0"	6'-10"	F	1 3/4"	SCPL	PLAM	001	HM	PAINTED	G-21/A-832	07/A-832	02/A-832		12.0	

STOREFRONT SCHEDULE AREA S

MARK	WIDTH	HEIGHT	ELEVATION	MATERIAL	FINISH	DETAILS SILL	DETAILS HEAD	DETAILS JAMB	FIRE RATING	REMARKS
9100A	16'-2"	20'-1"	TYPE 28	ALUM.	CLR. ANOD.	17/A-831	10/A-831	27/A-831		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR
9110	6'-3"	10'-0"	TYPE 25	ALUM.	CLR. ANOD.	17/A-831	12/A-831	03/A-831		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR
9100B	1'-4"	20'-1"	TYPE 27	ALUM.	CLR. ANOD.	17/A-831	10/A-831	27/A831		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR
9121	6'-9"	15'-6"	TYPE 24	ALUM.	CLR. ANOD.	17/A-831	12/A-831	03/A-831		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR
9122B	2'-6"	15'-6"	TYPE 20	ALUM.	CLR. ANOD.	17/A-831	10/A-831	03/A-831		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR
9122A	11'-9"	15'-6"	TYPE 21	ALUM.	CLR. ANOD.	17/A-831	10/A-831	03/A-831		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR
9132C	12'-8"	3'-8"	TYPE 22	ALUM.	CLR. ANOD.	05/A-832	11/A-832	10/A-832		PROVIDE 14 MIL SECURITY FILM ON INTERIOR, FROSTED GLASS
9132B	14'-9"	7'-0"	TYPE 23	ALUM.	CLR. ANOD.	04/A-832	11/A-832	10/A-832		PROVIDE 14 MIL SECURITY FILM ON INTERIOR
9101B	8'-10"	10'-0"	TYPE 29	ALUM.	CLR. ANOD.	04/A-832	11/A-832	10/A-832		PROVIDE 14 MIL SECURITY FILM ON INTERIOR
9101A	17'-11"	10'-0"	TYPE 30	ALUM.	CLR. ANOD.	04/A-832	11/A-832	10/A-832		PROVIDE 14 MIL SECURITY FILM ON INTERIOR
9101	7'-0"	7'-0"	TYPE 26	ALUM.	CLR. ANOD.	06/A-831	12/A-831	03/A-831		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
9102A	7'-0"	7'-0"	TYPE 26	ALUM.	CLR. ANOD.	06/A-831	12/A-831	03/A-831		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
9102B	7'-0"	7'-0"	TYPE 26	ALUM.	CLR. ANOD.	06/A-831	12/A-831	03/A-831	2	PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
9112	5'-8"	7'-0"	TYPE 26	ALUM.	CLR. ANOD.	06/A-831	12/A-831	03/A-831		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
9105A	5'-8"	7'-0"	TYPE 26	ALUM.	CLR. ANOD.	06/A-831	12/A-831	03/A-831		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
9109	5'-8"	7'-0"	TYPE 26	ALUM.	CLR. ANOD.	06/A-831	12/A-831	03/A-831		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
9102C	15'-0"	3'-0"	TYPE 31	ALUM.	CLR. ANOD.	06/A-831	12/A-831	03/A-831		PROVIDE MOTORIZED SHADES
9103B	15'-0"	3'-0"	TYPE 31	ALUM.	CLR. ANOD.	06/A-831	12/A-831	03/A-831		PROVIDE MOTORIZED SHADES
9102D	3'-0"	4'-0"	TYPE 14	ALUM.	CLR. ANOD.	05/A-832	11/A-832	10/A-832		PROVIDE 14 MIL SECURITY FILM ON INTERIOR
9103A	3'-0"	4'-0"	TYPE 14	ALUM.	CLR. ANOD.	05/A-832	11/A-832	10/A-832		PROVIDE 14 MIL SECURITY FILM ON INTERIOR
9105B	5'-0"	4'-0"	TYPE 14	ALUM.	CLR. ANOD.	05/A-832	11/A-832	10/A-832		PROVIDE 14 MIL SECURITY FILM ON INTERIOR
9105C	7'-0"	4'-0"	TYPE 14	ALUM.	CLR. ANOD.	05/A-832	11/A-832	10/A-832		PROVIDE 14 MIL SECURITY FILM ON INTERIOR
9137	4'-2"	7'-0"	TYPE 18	ALUM.	CLR. ANOD.	24/A-832	10/A-832	09/A-832		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
9136	4'-2"	7'-0"	TYPE 18	ALUM.	CLR. ANOD.	24/A-832	10/A-832	09/A-832		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
9135	4'-2"	7'-0"	TYPE 18	ALUM.	CLR. ANOD.	24/A-832	10/A-832	09/A-832		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
9134	4'-2"	7'-0"	TYPE 18	ALUM.	CLR. ANOD.	24/A-832	10/A-832	09/A-832		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
9133	4'-2"	7'-0"	TYPE 18	ALUM.	CLR. ANOD.	24/A-832	10/A-832	09/A-832		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED
9132A	13'-6"	7'-0"	TYPE 19	ALUM.	CLR. ANOD.	24/A-832	10/A-832	09/A-832		PROVIDE 14 MIL SECURITY FILM ON EXTERIOR AND INTERIOR. PROVIDE BLINDS AS SPECIFIED

GENERAL ARCH PLAN NOTES

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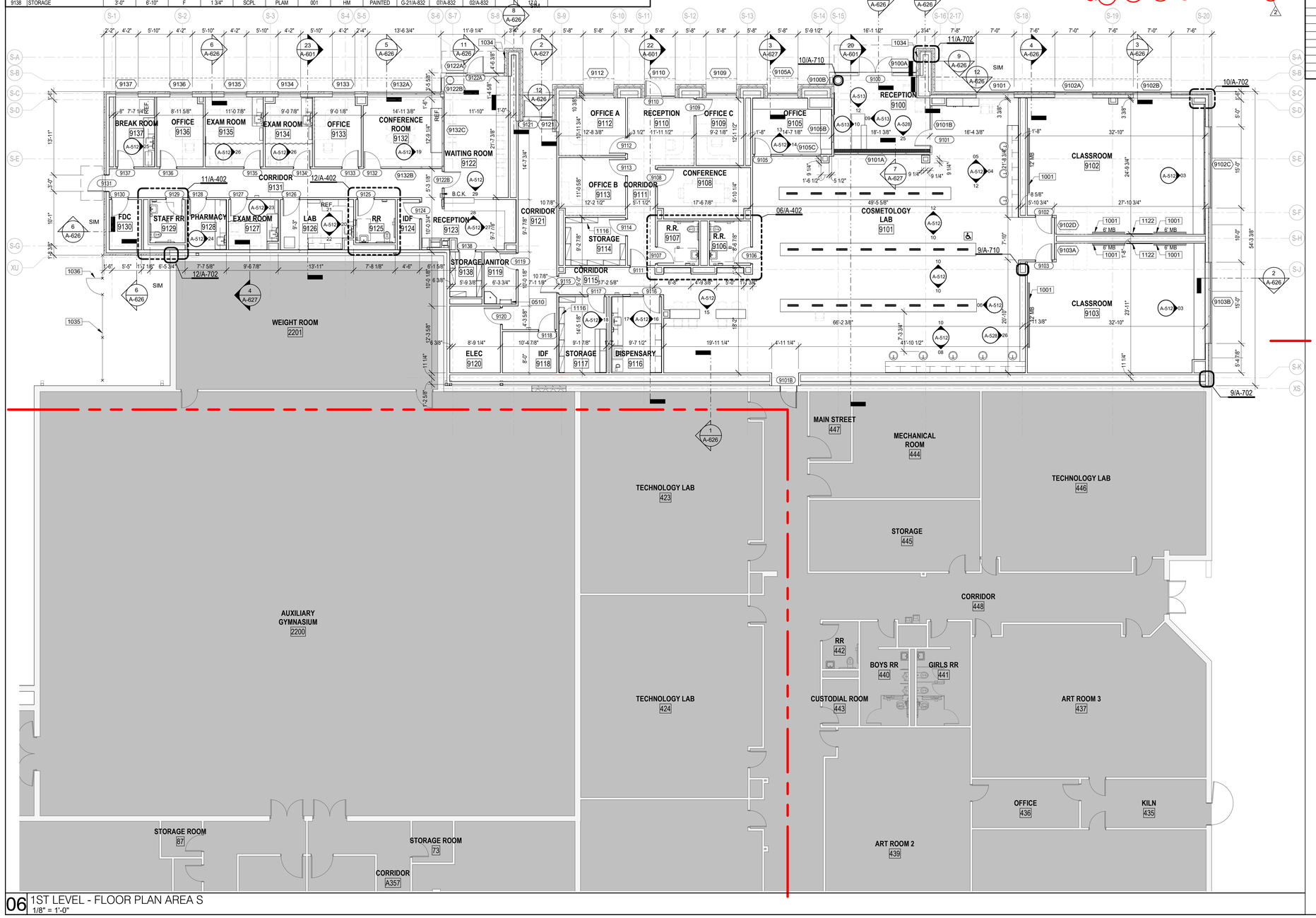
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A801 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE S5 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK
25. PROVIDE PLYWOOD IN METAL STUD WALL PARTITION FOR SUPPORT OF ALL TV LOCATIONS.

KEYNOTE LEGEND

NUMBER	DESCRIPTION
0510	PROVIDE ROOF ACCESS LADDER, TYP.
1001	WALL MOUNTED MARKERBOARD; RE: SPECS
1034	KNOX BOX, RE: SPECS
1035	CHAINLINK FENCE, RE: SPECS
1036	CHAINLINK FENCE DOOR, RE: SPECS
1116	INDUSTRIAL METAL SHELVING; RE: SPECS
1122	SMART SCREEN, PROVIDE BLOCKING, O.F.C.I



06 1ST LEVEL - FLOOR PLAN AREA S
1/8" = 1'-0"

PBK

ARCHITECT PBK Architects, Inc. PBK.com
HOUSTON
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
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BUILDING ENVELOPE
BEAM PROFESSIONALS
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STRUCTURAL
KUBR ENGINEERS
832-767-2838

MEP
LEAF ENGINEERS
713-960-3393

LANDSCAPE
GREENSCAPE ASSOCIATES
713-965-9355

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338

ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT HUMBLE, TEXAS HARRIS COUNTY

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT GREGORY A. PRINCE 27995 STATE OF TEXAS
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - FLOOR PLAN - AREA S

A-101S

A-101S
1ST LEVEL - FLOOR PLAN - AREA S
FOR BLUEBEAM LABELING/OCR:

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/A923 220537 HISD HHS Phase 2.rvt
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DRAWN BY: Author
Plot Stamp: 1/8/2025 4:28:33 PM

FOR BLUEBEAM LABELING OCR:
A-102A
2ND LEVEL - FLOOR PLAN - AREA A

STOREFRONT SCHEDULE AREA A

MARK	FRAME		ELEVATION	MATERIAL	FINISH	DETAIL			REMARKS
	WIDTH	HEIGHT				SILL	HEAD	JAMB	
1213A	3'-4"	5'-0"	TYPE 34	AL	CLR. ANOD.	25/A-831	26/A-831	21/A-831	
1213B	3'-4"	5'-0"	TYPE 34	AL	CLR. ANOD.	25/A-831	26/A-831	21/A-831	

06 2ND LEVEL - FLOOR PLAN - AREA A
1/8" = 1'-0"

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KEYNOTE LEGEND

NUMBER	DESCRIPTION
2203	NEW DRINKING FOUNTAIN, RE:PLUMBING

ARCHITECT PBK Architects, Inc.
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11 Greenway Plaza, 22nd Floor
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713-965-0608 P
713-961-4571 F
TX Firm: F-1608

CIVIL
DIG ENGINEERS
T 713-965-0608

BUILDING ENVELOPE
BEAM PROFESSIONALS
T 713-940-3201

STRUCTURAL
KUBALA ENGINEERS
T 832-737-2639

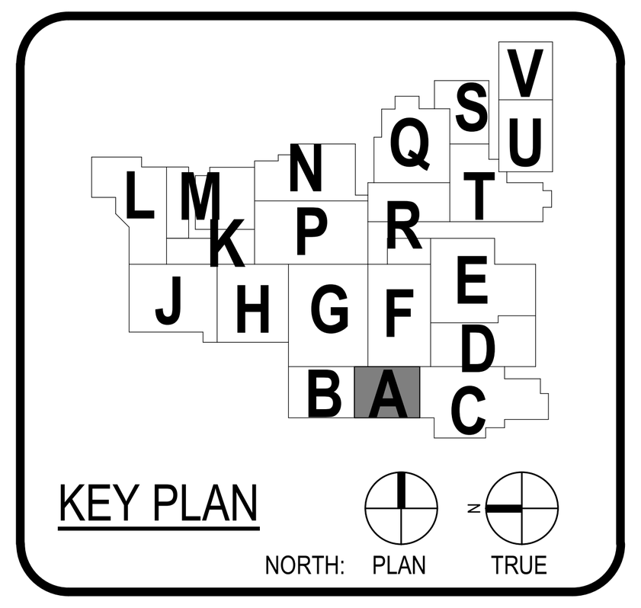
MEPT
LEAF ENGINEERS
T 713-940-3300

LANDSCAPE
GREENSCAPE ASSOCIATES
T 713-940-3300

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT · HUMBLE, TEXAS · HARRIS COUNTY



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT GREGORY A. PRINCE 27195 STATE OF TEXAS
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL
BUILDING NUMBER n/a

2ND LEVEL - FLOOR PLAN - AREA A

A-102A

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt
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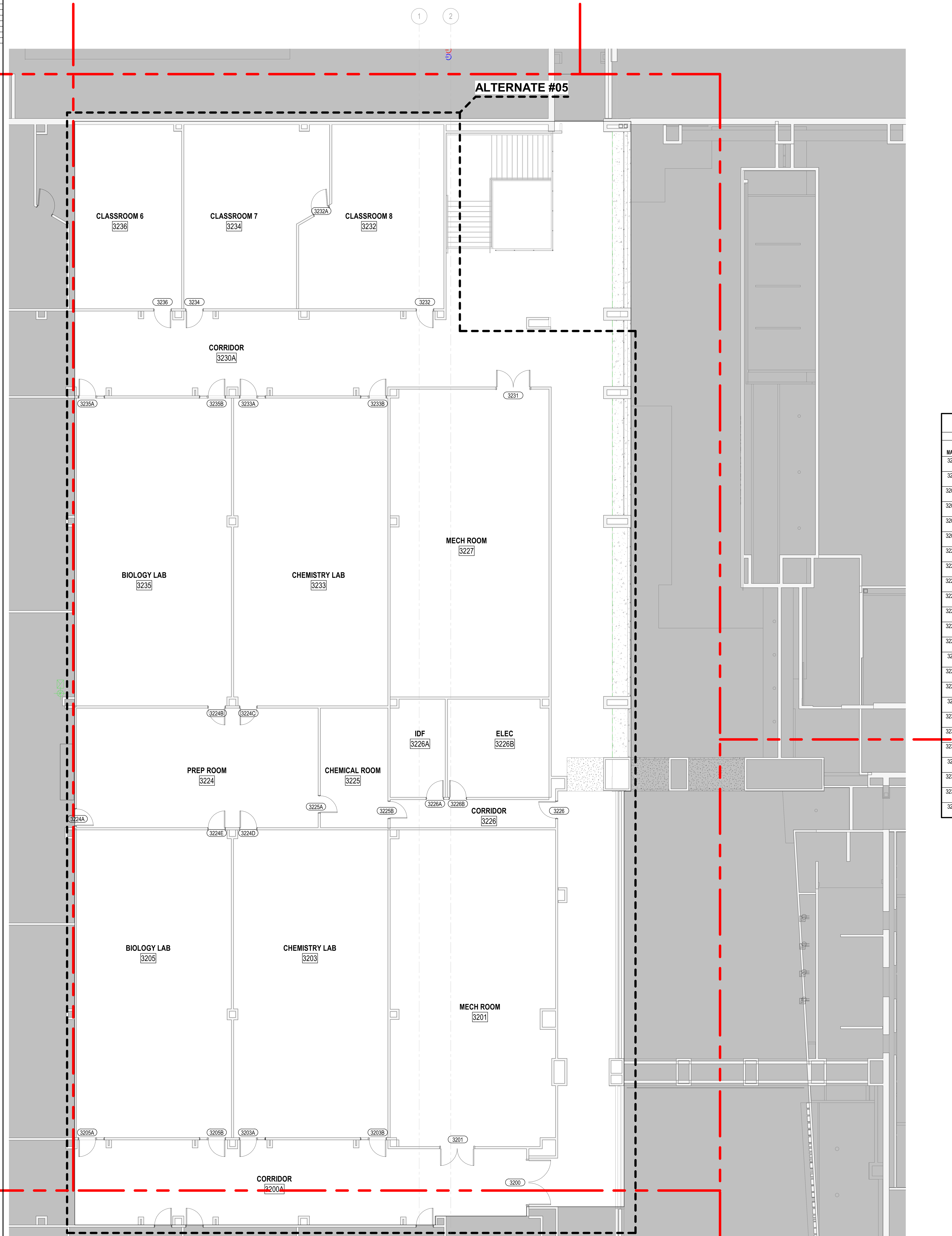
Plot Stamp: 1/15/2025 7:22:07 PM



06 2ND LEVEL - FLOOR PLAN - AREA F - ALTERNATE #05
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

1. DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE, CONTACT ARCH IF CLARIFICATION IS NECESSARY IN ORDER TO DETERMINE THE INTENT OF THE CONTRACT DOCUMENTS
2. DRAWINGS NOTED AS "N.T.S" OR "NTS" ARE NOT TO SCALE
3. ALL DIMENSIONS ARE TO STRUCTURAL COLUMN LINES OR THE SURFACE OF PARTITION ASSEMBLY U.N.O.
4. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE COMMENCING WORK. NOTIFY ARCH. OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK
5. NOTES OR DIMENSIONS NOTED AS "TYPICAL" OR "TYP." OR "TYP" SHALL APPLY TO CONDITIONS THAT ARE THE SAME OR SIMILAR
6. DIMENSIONS NOTED AS "FIELD VERIFY" OR "V.I.F." OR "VIF" SHALL BE MEASURED AND CONFIRMED AT THE PROJECT SITE BY THE CONTRACTOR AND REVIEWED WITH THE ARCH. BEFORE INCORPORATING INTO THE WORK
7. DIMENSIONS NOTED AS "CLEAR" OR "CLEAR INSIDE" REQUIRE SPECIFIC COORDINATION AMONG DISCIPLINES AND OR MANUFACTURERS
8. REFER TO PARTITION TYPES ON A801 SERIES SHEETS
9. ALL INTERIOR PARTITIONS THIS SHEET, EXCEPT FOR FURR-OUT PARTITIONS, SHALL BE PARTITION TYPE S3 U.N.O.
10. ALL INTERIOR FURR-OUT PARTITIONS THIS SHEET SHALL BE PARTITION TYPE S5 U.N.O.
11. ALIGN FINISHED FACE OF WALLS WHERE WALL PARTITIONS OF DIFFERING THICKNESS ABUT AND OR ADJOIN IN THE SAME PLANE
12. PROVIDE AND INSTALL CONT. REVEAL TRIM AT JOINT WHERE GYPSUM BOARD WALL PARTITIONS ABUT AND OR ADJOIN MASONRY WALL PARTITIONS IN THE SAME PLANE
13. ALL INTERIOR CMU OUTSIDE CORNERS SHALL HAVE BULLNOSE U.N.O.
14. ALL DOORS SHALL BE SET 6 INCHES OFF THE ADJACENT PERPENDICULAR WALL ON THE HINGE SIDE OF THE DOOR U.N.O., NOTIFY ARCH. OF ANY DOOR-RELATED CONFLICTS, INCLUDING BUT NOT LIMITED TO CONFLICTS CONCERNING ACCESSIBILITY STANDARDS
15. ALL DOOR THRESHOLDS AT ALL EXTERIOR DOORS SHALL BE SET IN FULL BED OF SEALANT
16. COORD. ALL ROOF DRAIN LEADER LOCATIONS WITH FLOOR PLAN PRIOR TO FLOOR SLAB CONSTRUCTION
17. ALL FLOOR SLOPES TO FLOOR DRAINS SHALL NOT EXCEED 1:48
18. PROVIDE AND INSTALL SELF-LEVELING UNDERLAYMENT WHERE UNEVEN FLOOR SLAB EXISTS PRIOR TO INSTALLATION OF FLOOR FINISHES
19. COORD. HOUSEKEEPING PAD LOCATIONS AND DIMENSIONS WITH EQUIPMENT TO BE INSTALLED
20. ALL FLOOR FINISH CHANGES SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
21. ALL FLOOR FINISH MATERIAL CHANGES SHALL HAVE REDUCER STRIPS
22. ALL REQUIRED ACCESSIBLE CLEARANCES FOR ALL ITEMS, INCLUDING BUT NOT LIMITED TO ALL COUNTER TOPS, ALL PLUMBING FIXTURES, ALL DRINKING FOUNTAINS, ALL ELECTRIC WATER COOLERS, ALL LAVATORIES, ALL URINALS, ALL TOILETS SHALL BE STRICTLY ENFORCED
23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK
25. PROVIDE PLYWOOD IN METAL STUD WALL PARTITION FOR SUPPORT OF ALL TV LOCATIONS.

DOOR SCHEDULE AREA F (ALTERNATE #05)

DATA		PANEL						FRAME						GENERAL		
											DETAILS					
MARK	NAME	WIDTH	HEIGHT	ELEVATION	THK	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	SILL	HEAD	JAMB	FIRE RATING	HARDWARE	REMARKS
3200	CORRIDOR	8'-0"	7'-0"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	G-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		8.0	VERIFY EXISTING DOOR IN FIELD
3201	MECH ROOM	6'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	B-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN	45 MINS.	9.0	VERIFY EXISTING DOOR IN FIELD
3203A	CHEMISTRY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM		EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3203B	CHEMISTRY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM		EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3205A	BIOLOGY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM		EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3205B	BIOLOGY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM		EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3224A	PREP ROOM	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	J-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		19.0	VERIFY EXISTING DOOR IN FIELD
3224B	PREP ROOM	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	01/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		19.0	VERIFY EXISTING DOOR IN FIELD
3224C	PREP ROOM	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	01/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		35.0	VERIFY EXISTING DOOR IN FIELD
3224D	PREP ROOM	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	01/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		35.0	VERIFY EXISTING DOOR IN FIELD
3224E	PREP ROOM	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	01/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		35.0	VERIFY EXISTING DOOR IN FIELD
3225A	CHEMICAL ROOM	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	01/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		17.0	VERIFY EXISTING DOOR IN FIELD
3225B	CHEMICAL ROOM	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	01/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		19.0	VERIFY EXISTING DOOR IN FIELD
3226	CORRIDOR	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	G-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		19.0	VERIFY EXISTING DOOR IN FIELD
3226A	IDF	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	B-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN	45 MINS	22.0	VERIFY EXISTING DOOR IN FIELD
3226B	ELEC	3'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	B-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN	45 MINS	22.0	VERIFY EXISTING DOOR IN FIELD
3231	MECH ROOM	6'-0"	6'-11 1/2"	F	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	B-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN	45 MINS	9.0	VERIFY EXISTING DOOR IN FIELD
3232A	CLASSROOM 7	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM	001	EXISTING TO REMAIN	PAINTED	J-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		34.0	VERIFY EXISTING DOOR IN FIELD
3233A	CHEMISTRY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM		EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3233B	CHEMISTRY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM		EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3234	CLASSROOM 7	3'-0"	6'-11 1/2"	F	1 3/4"	WD	WD-"X"	001	EXISTING TO REMAIN	PAINTED	J-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		29.0	VERIFY EXISTING DOOR IN FIELD
3235A	BIOLOGY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM		EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3235B	BIOLOGY LAB	3'-0"	6'-11 1/2"	NV-1	1 3/4"	SCPL	PLAM		EXISTING TO REMAIN	PAINTED	H-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		26.0	VERIFY EXISTING DOOR IN FIELD
3236	CLASSROOM 6	3'-0"	6'-11 1/2"	F	1 3/4"	WD	WD-"X"	001	EXISTING TO REMAIN	PAINTED	J-21/A-832	EXIST. TO REMAIN	EXIST. TO REMAIN		29.0	VERIFY EXISTING DOOR IN FIELD

PBK
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TX Firm: F-1608
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STRUCTURAL
KUBALA ENGINEERS
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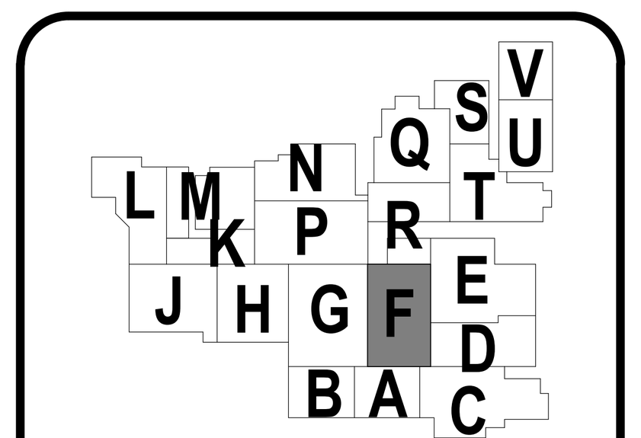
MEPT
LEAF ENGINEERS
T 713-940-3300
LANDSCAPE
GREENSCAPE ASSOCIATES
T 713-940-3300

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO
1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
1	Addendum #1	1/9/2025
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

2ND LEVEL - FLOOR PLAN - AREA F - ALTERNATE #05

A-102F.1

2ND LEVEL - FLOOR PLAN - AREA F - ALTERNATE #05
A-102F.1
FOR BLUEBEAM LABELING OCR:

CHECKED BY:
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DRAWN BY:
Author
Plot Stamp:
1/10/2025 11:31:01 AM
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FOR BLUEBEAM LABELING OCR:
A-102G
2ND LEVEL - FLOOR PLAN - AREA G

06 2ND LEVEL - FLOOR PLAN - AREA G
1/8" = 1'-0"

GENERAL ARCH PLAN NOTES

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23. APPLY BITUMINOUS COATING TO ALL CONCEALED STRUCTURAL STEEL MEMBERS AT ALL EXTERIOR CANOPY LOCATIONS
24. REFER TO OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK
25. PROVIDE PLYWOOD IN METAL STUD WALL PARTITION FOR SUPPORT OF ALL TV LOCATIONS.

KEYNOTE LEGEND

NUMBER	DESCRIPTION

PBK

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11 Greenway Plaza, 22nd Floor
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713-965-0608 P
713-961-4571 F
TX Firm: F-1608

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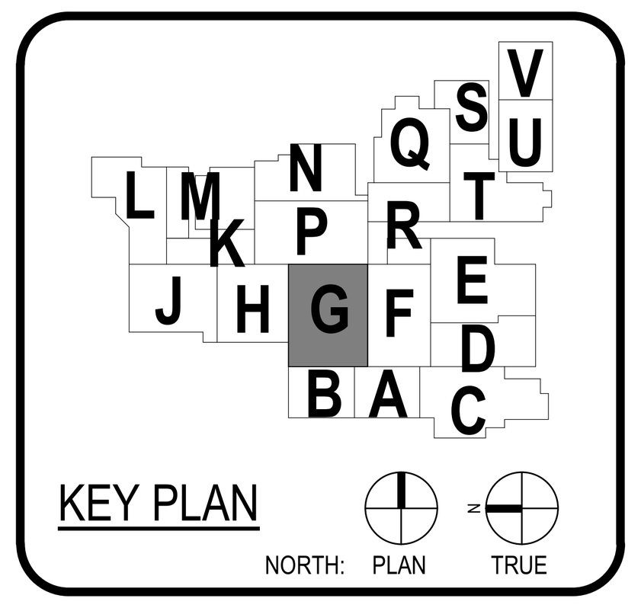
KUBALA ENGINEERS
T 832-737-2639

MEPT
LEAF ENGINEERS
T 713-940-3300

LANDSCAPE
GREENSCAPE ASSOCIATES
T 713-940-3300

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

17000 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09



DISCIPLINE

12/18/2024

CLIENT
HUMBLE ISD

DATE 12/18/2024
PROJECT NUMBER 220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

2ND LEVEL - FLOOR PLAN - AREA G

A-102G

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Author
Plot Stamp:
1/14/2025 11:14:55 AM

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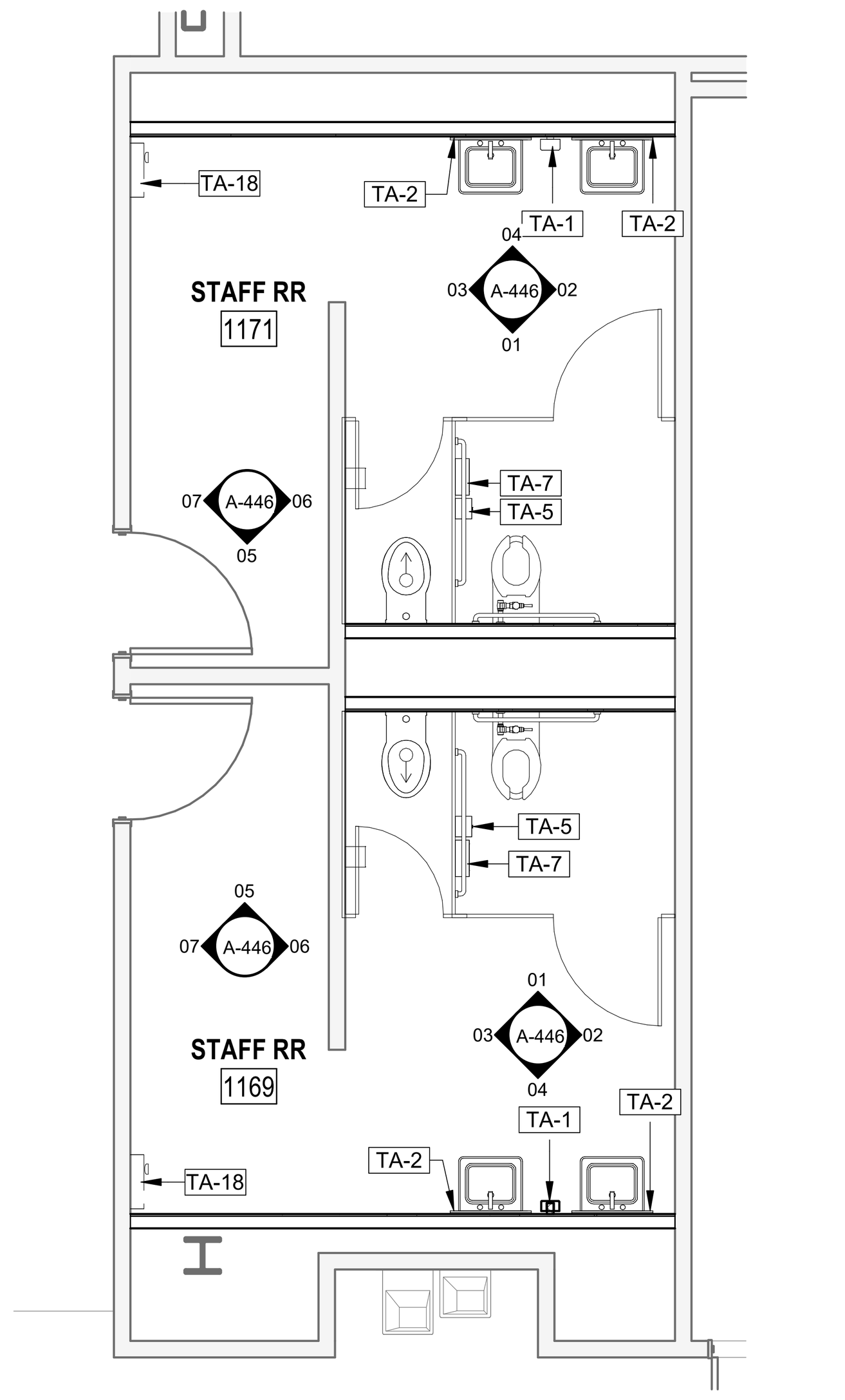
TOILET ACCESSORIES

LABEL	DESCRIPTION	REMARKS
TA-1	SOAP DISPENSER	
TA-2	MIRROR	
TA-3	TOILET PAPER DISPENSER	
TA-4	PAPER TOWEL DISPENSER	
TA-5	GRAB BARS (AT TYPICAL ACCESSIBLE TOILETS)	
TA-6	SANITARY NAPKIN DISPENSER	
TA-7	SANITARY NAPKIN DISPOSAL	
TA-8	MOP AND BROOM HOLDER	
TA-9	GRAB BARS (AT ACCESSIBLE SHOWERS)	
TA-10	FOLDING SHOWER BENCH	
TA-11	CLOTHES HOOK	NOTE 5
TA-12	SHOWER CURTAIN, ROD AND HOOKS	
TA-13	NOT USED	
TA-14	NOT USED	
TA-15	NOT USED	
TA-16	NOT USED	
TA-17	NOT USED	
TA-18	ELECTRIC HAND DRYER	
TA-19	SEAT COVER DISPENSER	
TA-20	SPECIMEN PASSTHRU	

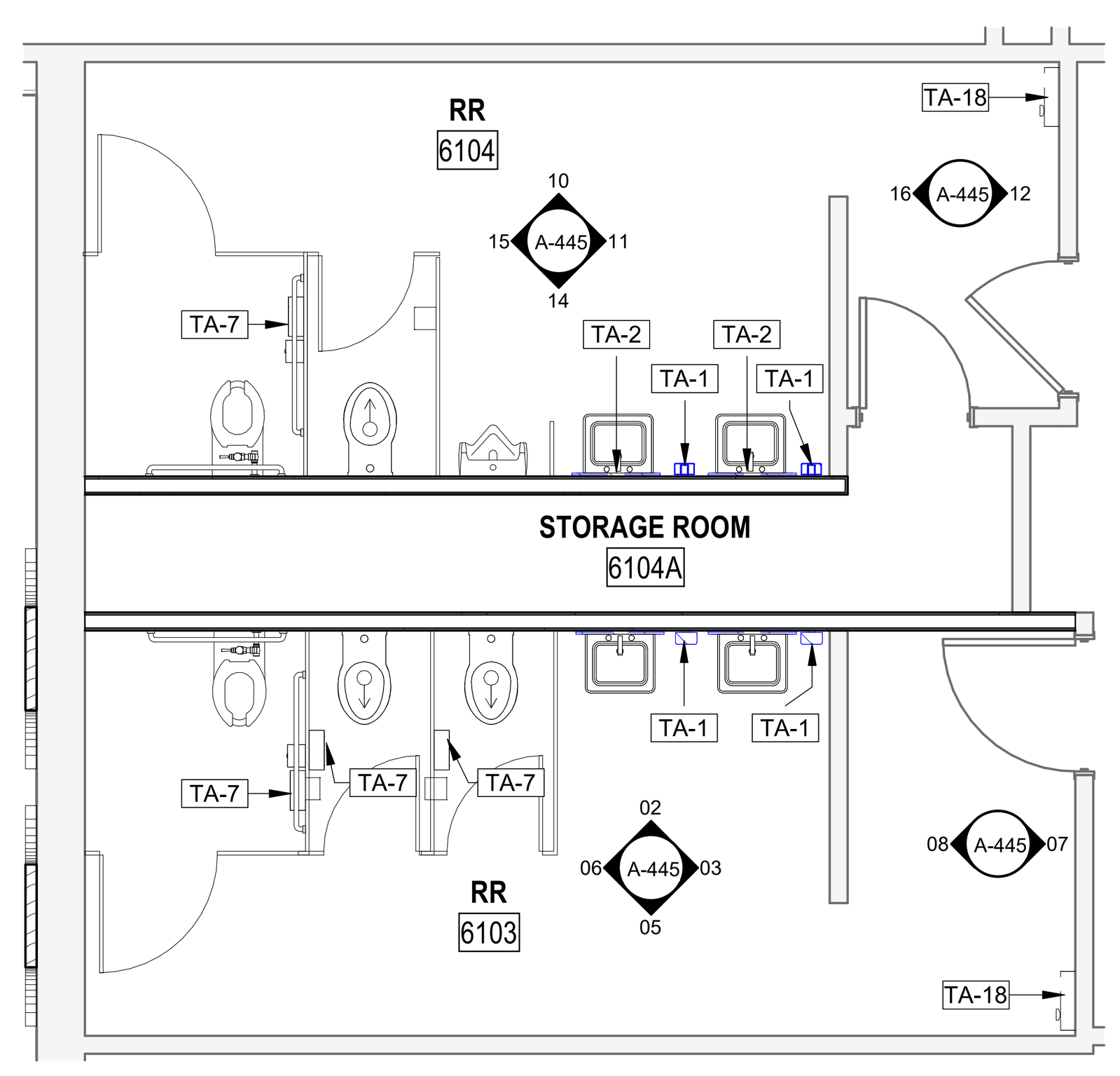
NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED U.N.O.
ALL TOILET AND URINAL PARTITIONS TO BE SUPPORTED AT FLOOR AND AT CEILINGS.

1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE, VERIFY ALL PATTERNS WITH ARCHITECT
4. ALIGN MIRROR ON CENTER OF LAVATORY
5. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER

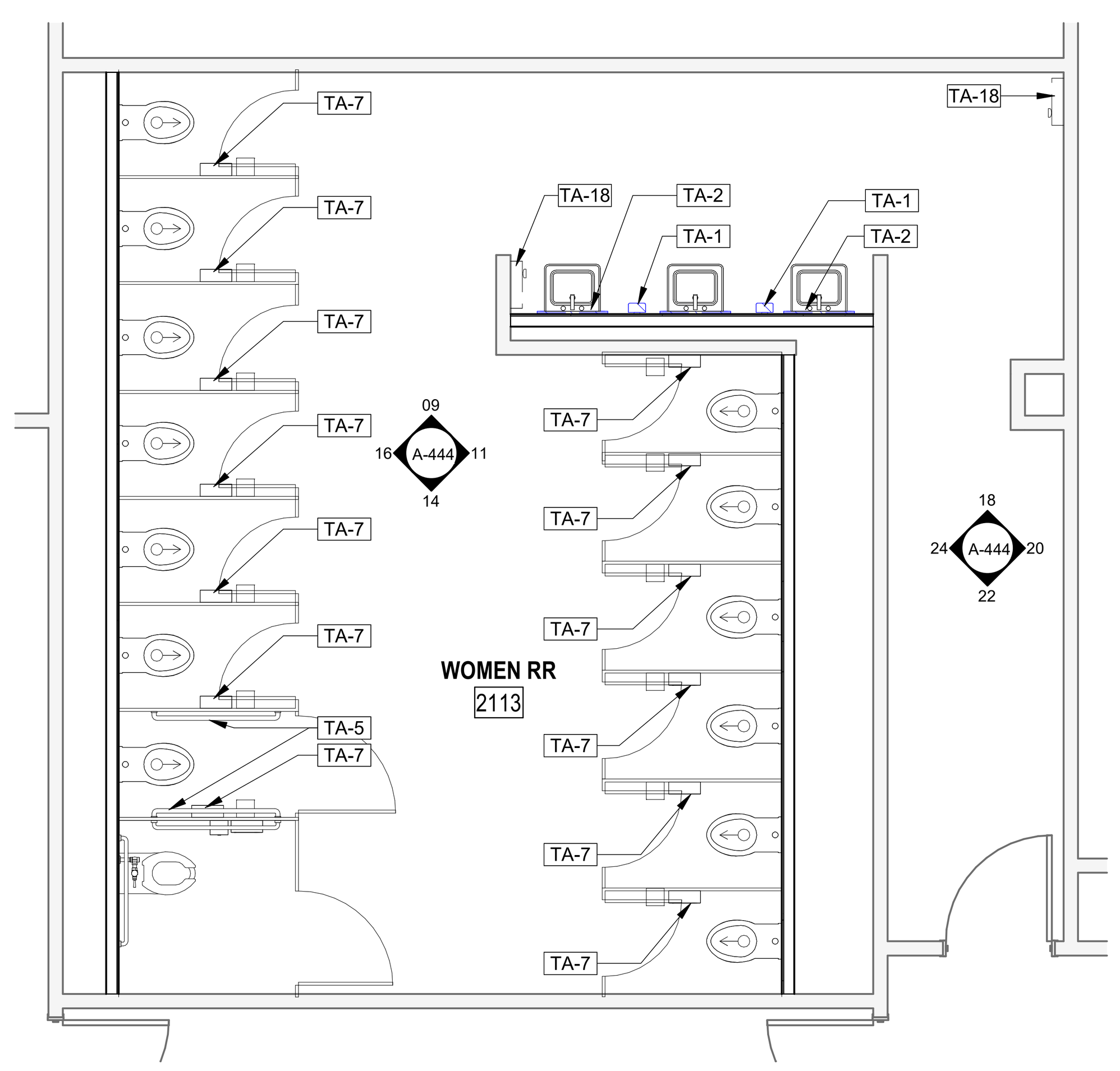


07 RESTROOMS 1169 & 1171
1/4" = 1'-0"

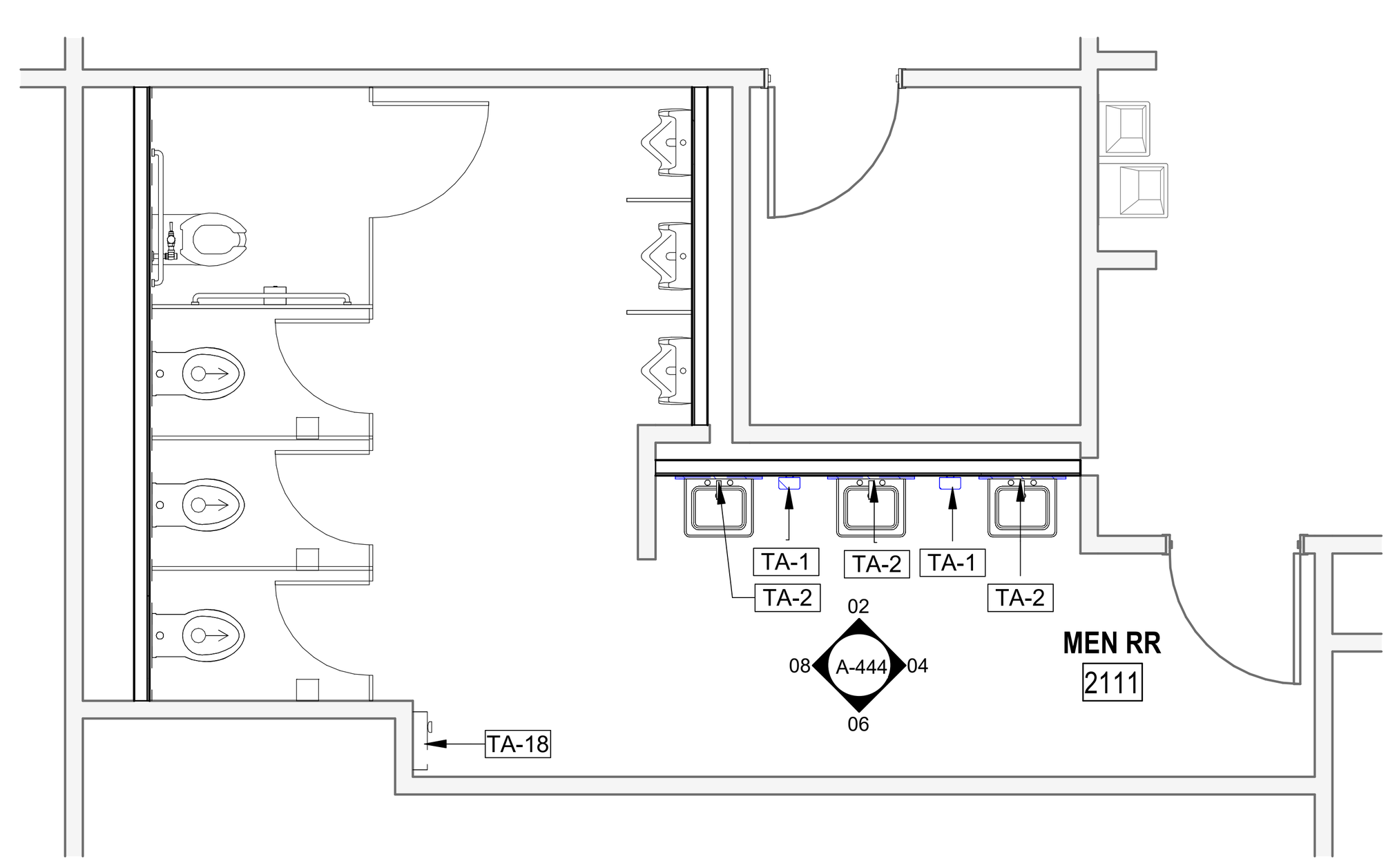
2



06 RESTROOMS 6103 & 6104
1/4" = 1'-0"



04 RESTROOM 2113 NORTH 2
1/4" = 1'-0"



02 1ST LEVEL - FLOOR PLAN AREA F - RESTROOM 2111
1/4" = 1'-0"

ARCHITECT PBK Architects, Inc.
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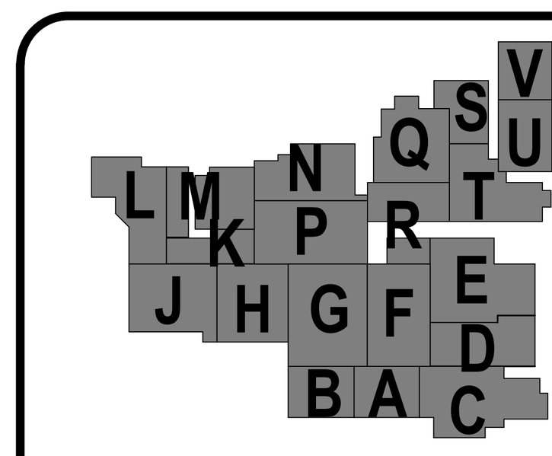
T 713-940-3300

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT · HUMBLE, TEXAS · HARRIS COUNTY



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT · GREGORY A. PRINCE · 27195 · STATE OF TEXAS
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

ENLARGED - FLOOR PLANS

A-403

ENLARGED - FLOOR PLANS
A-403
FOR BLUEBEAM LABELING OCR:

0"
1"

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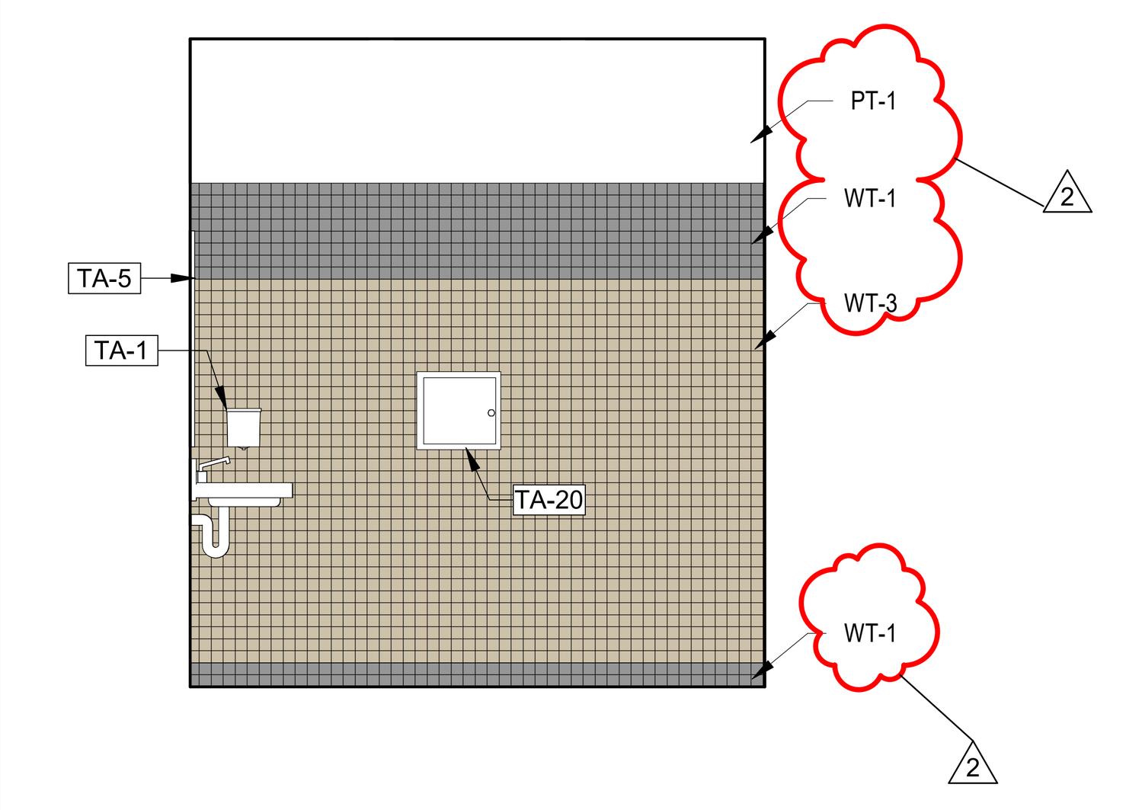
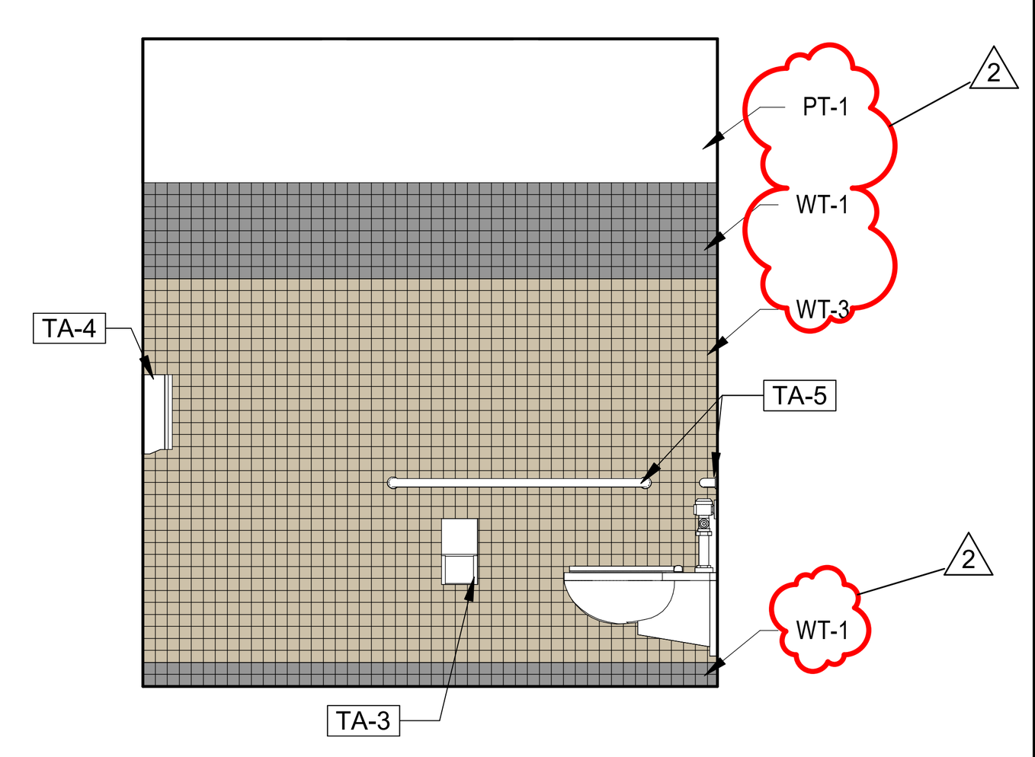
Author
Plot Stamp:
1/15/2025 11:38:47 AM

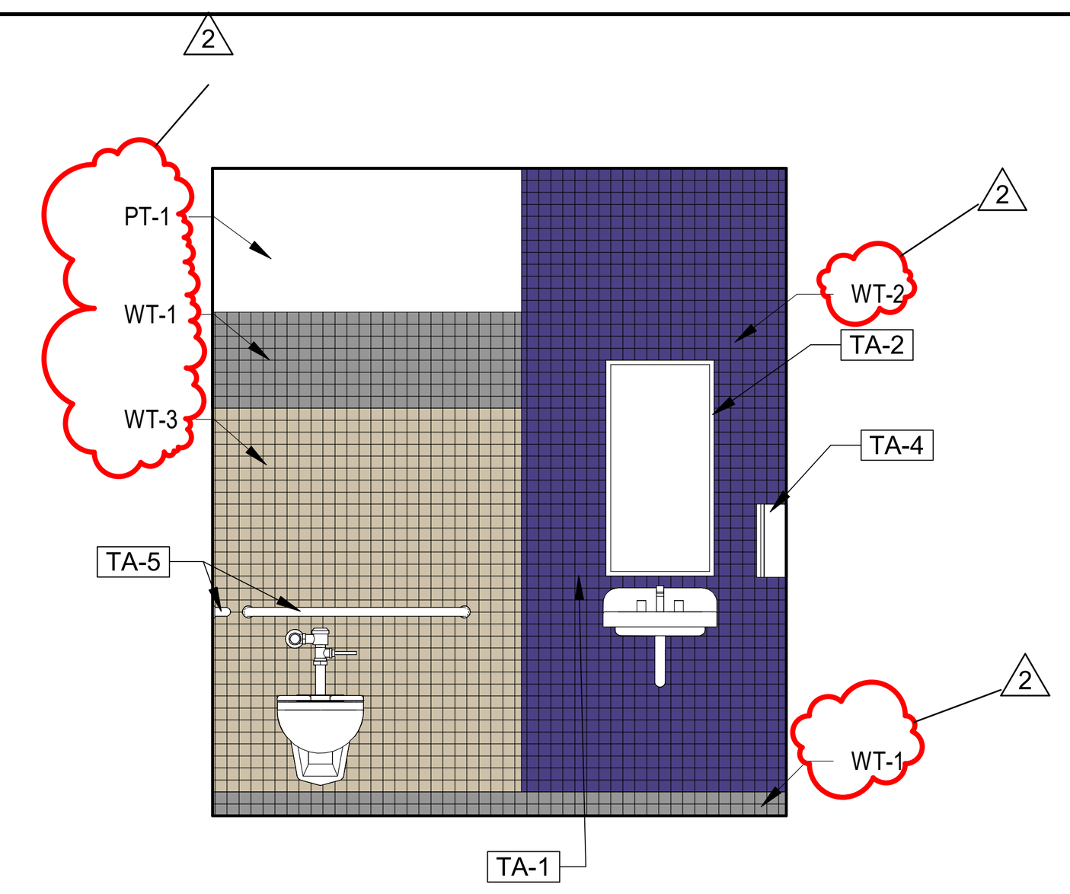
ENLARGED - RESTROOM ELEVATIONS
A-441
FOR BLUEBEAM LABELING/OCR:



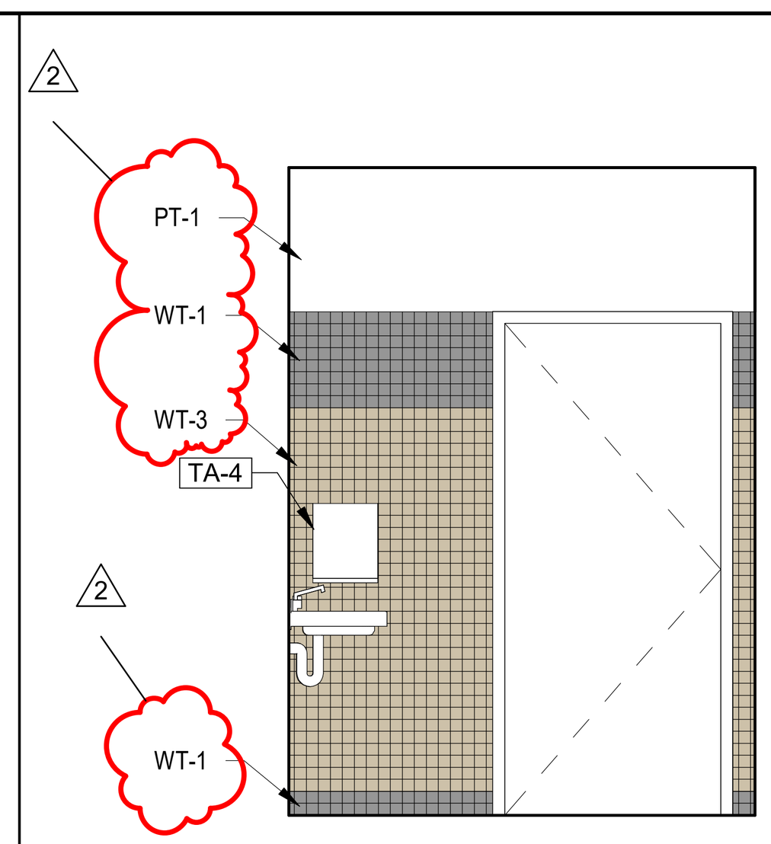
30 9125 RR WEST
3/8" = 1'-0"



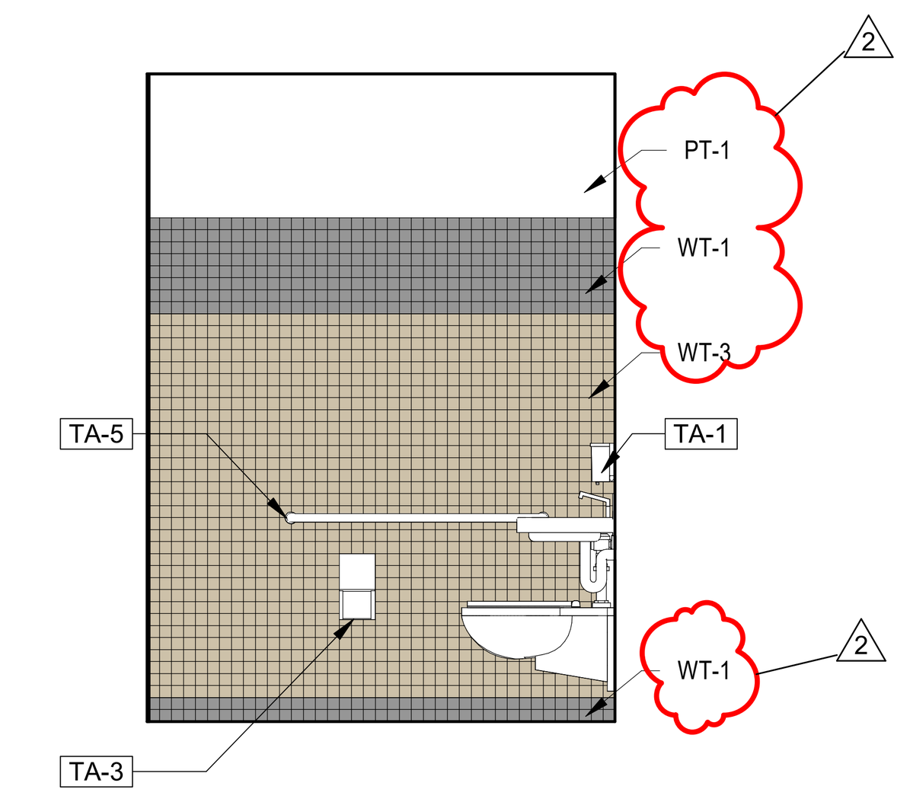
29 9125 RR EAST
3/8" = 1'-0"



28 9129 STAFF RR WEST
3/8" = 1'-0"



27 9129 STAFF RR NORTH
3/8" = 1'-0"



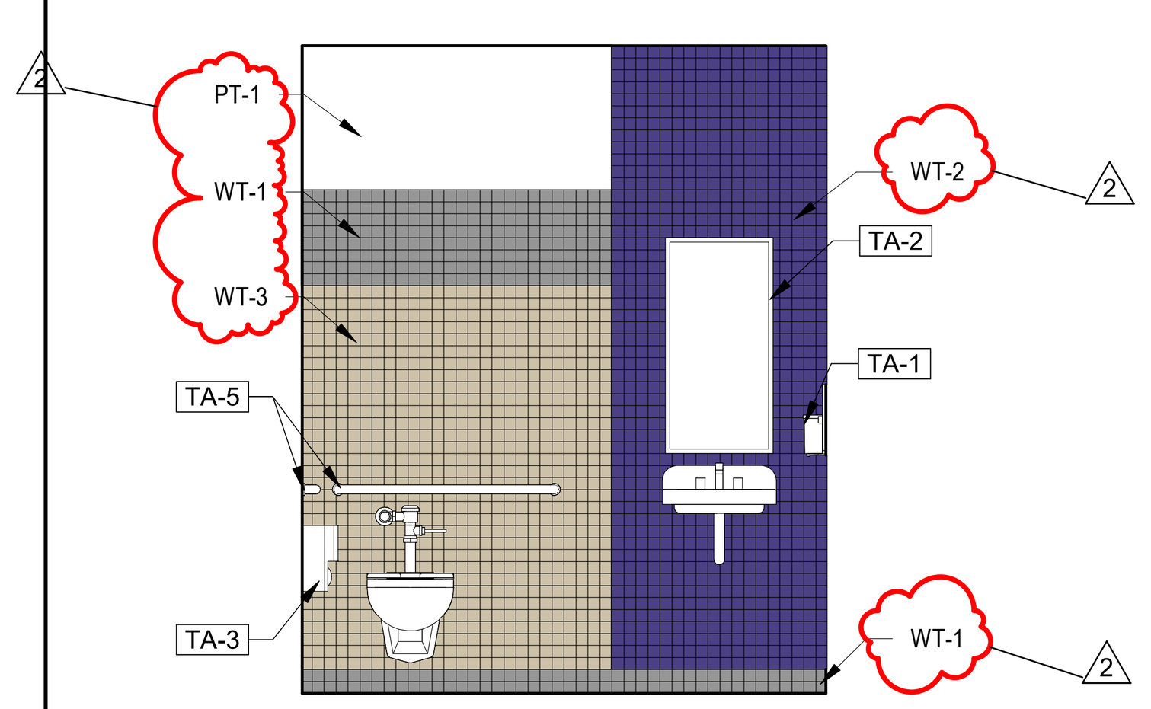
26 9129 STAFF RR SOUTH
3/8" = 1'-0"

TOILET ACCESSORIES

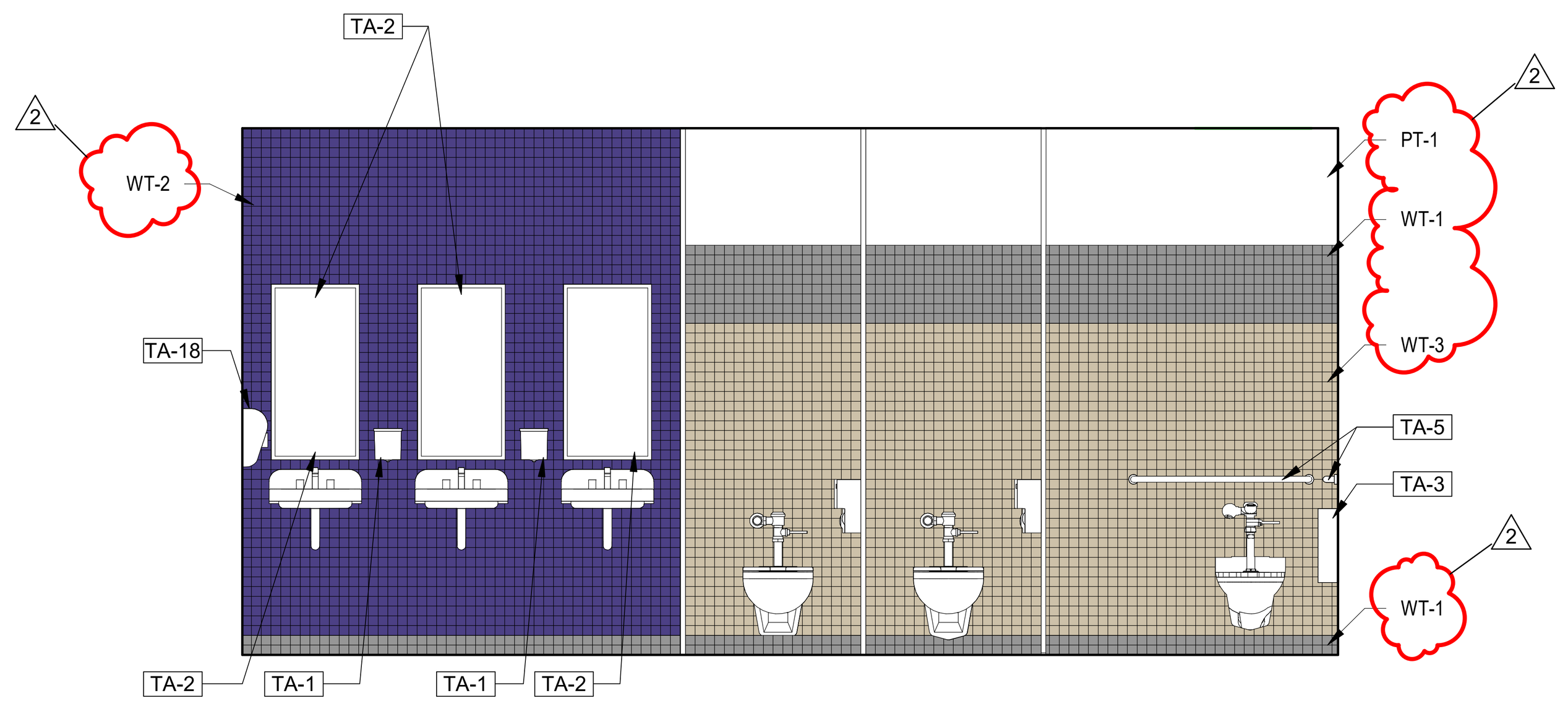
LABEL	DESCRIPTION	REMARKS
TA-1	SOAP DISPENSER	
TA-2	MIRROR	
TA-3	TOILET PAPER DISPENSER	
TA-4	PAPER TOWEL DISPENSER	
TA-5	GRAB BARS (AT TYPICAL ACCESSIBLE TOILETS)	
TA-6	SANITARY NAPKIN DISPENSER	
TA-7	SANITARY NAPKIN DISPOSAL	
TA-8	MOP AND BROOM HOLDER	
TA-9	GRAB BARS (AT ACCESSIBLE SHOWERS)	
TA-10	FOLDING SHOWER BENCH	
TA-11	CLOTHES HOOK	NOTE 5
TA-12	SHOWER CURTAIN, ROD AND HOOKS	
TA-13	NOT USED	
TA-14	NOT USED	
TA-15	NOT USED	
TA-16	NOT USED	
TA-17	NOT USED	
TA-18	ELECTRIC HAND DRYER	
TA-19	SEAT COVER DISPENSER	
TA-20	SPECIMEN PASSTHRU	

NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED U.N.O.
ALL TOILET AND URINAL PARTITIONS TO BE SUPPORTED AT FLOOR AND AT CEILINGS.

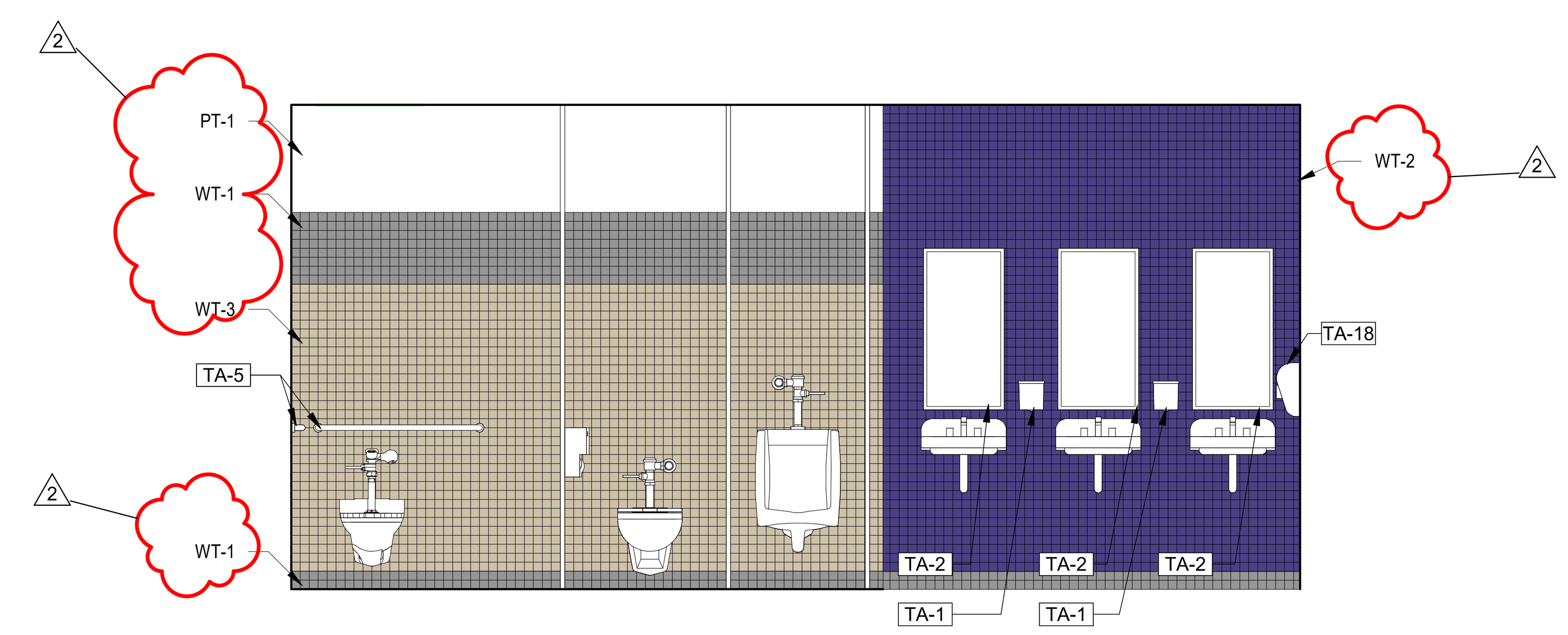
1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE, VERIFY ALL PATTERNS WITH ARCHITECT
4. ALIGN MIRROR ON CENTER OF LAVATORY
5. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER



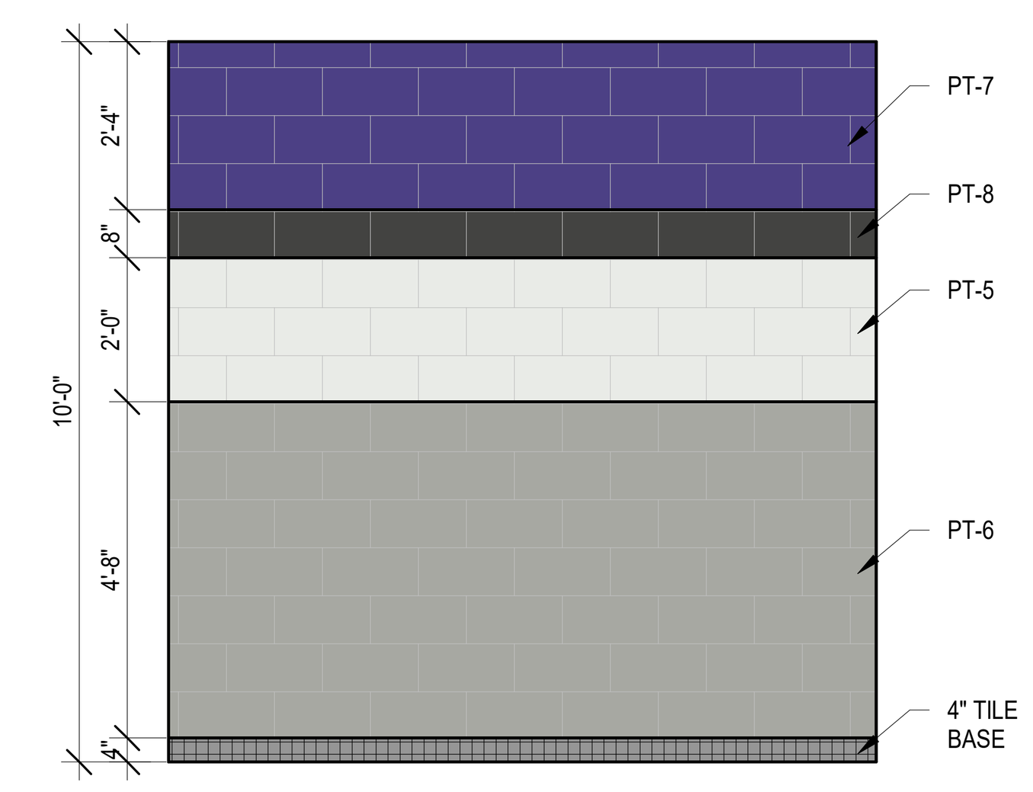
24 9125 RR SOUTH
3/8" = 1'-0"



23 1118 & 3117 GIRLS RR SOUTH
3/8" = 1'-0"



21 1119 & 3118 BOYS RR NORTH
3/8" = 1'-0"



19 TYP. RR ELEVATION
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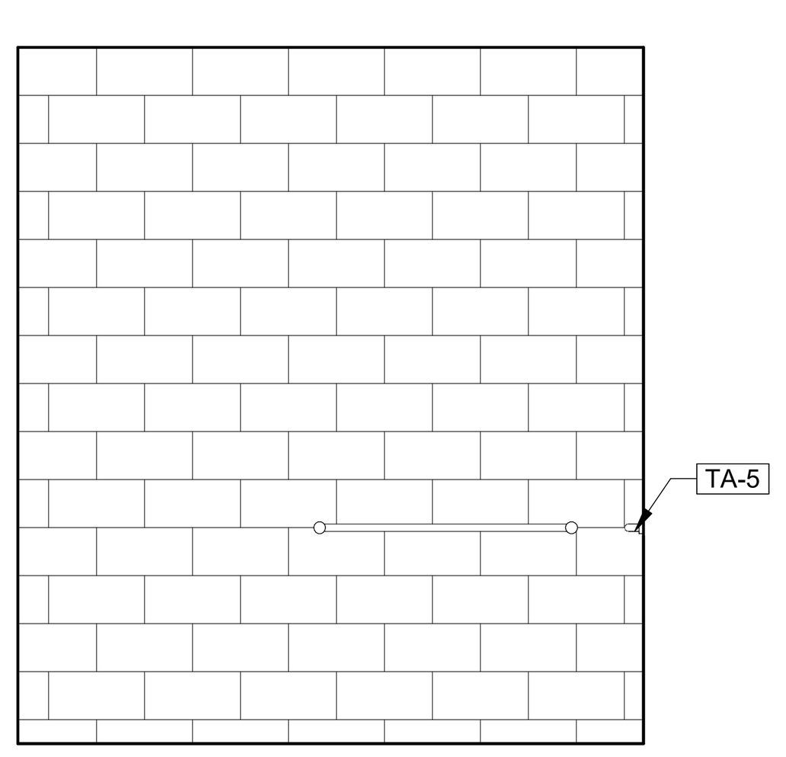
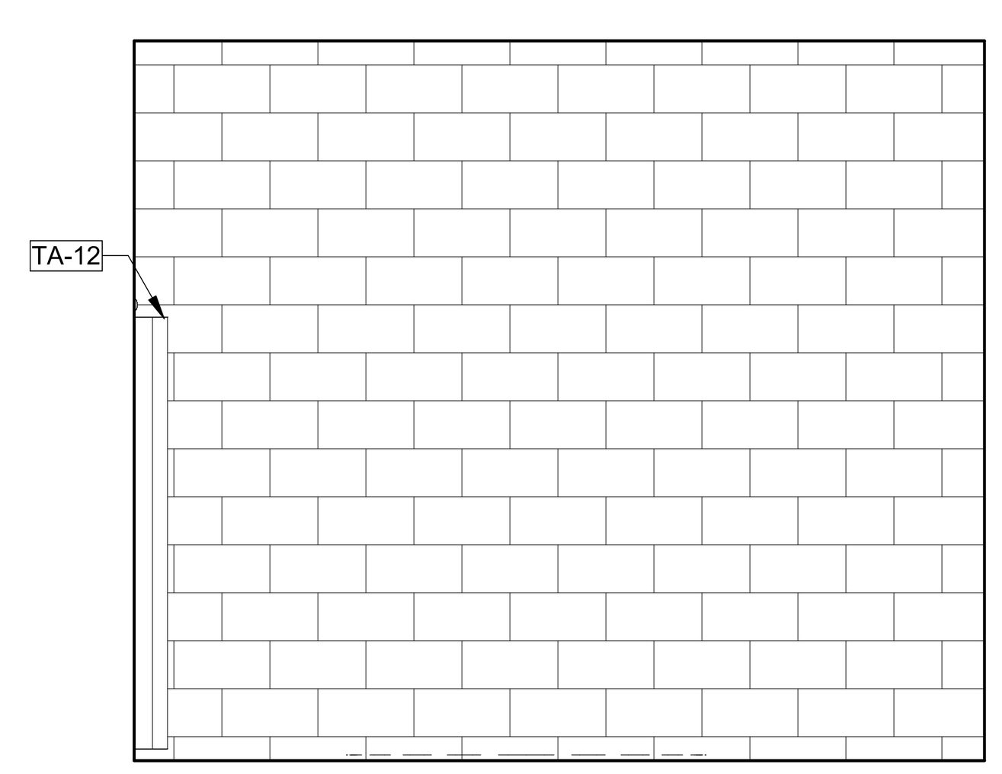


18 4145C RR WEST
3/8" = 1'-0"



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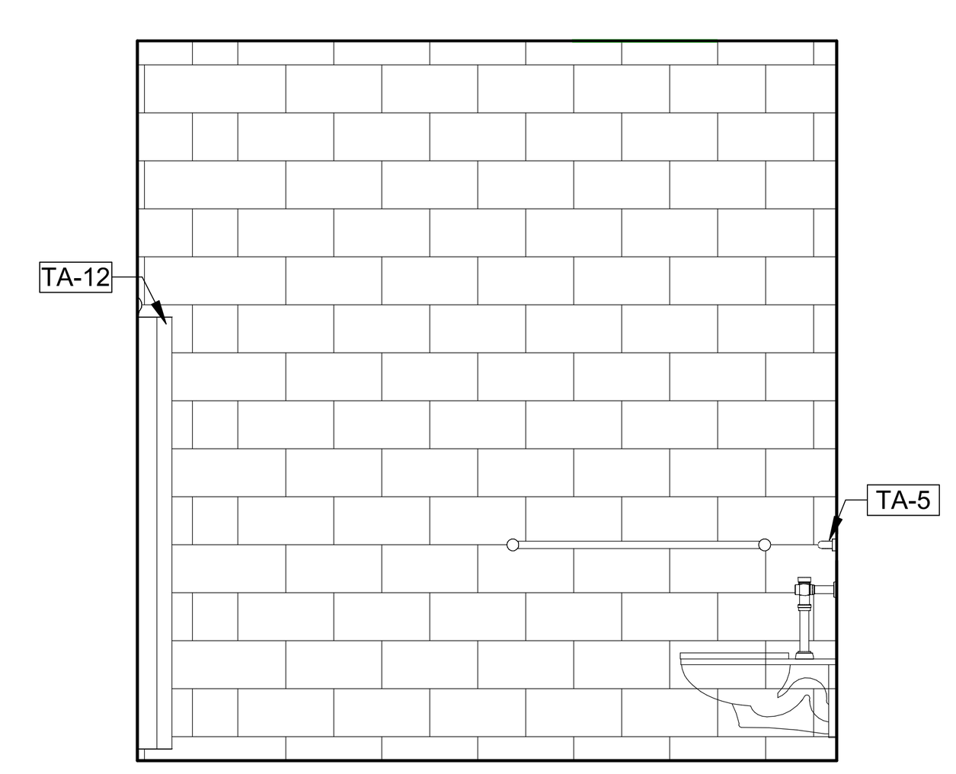
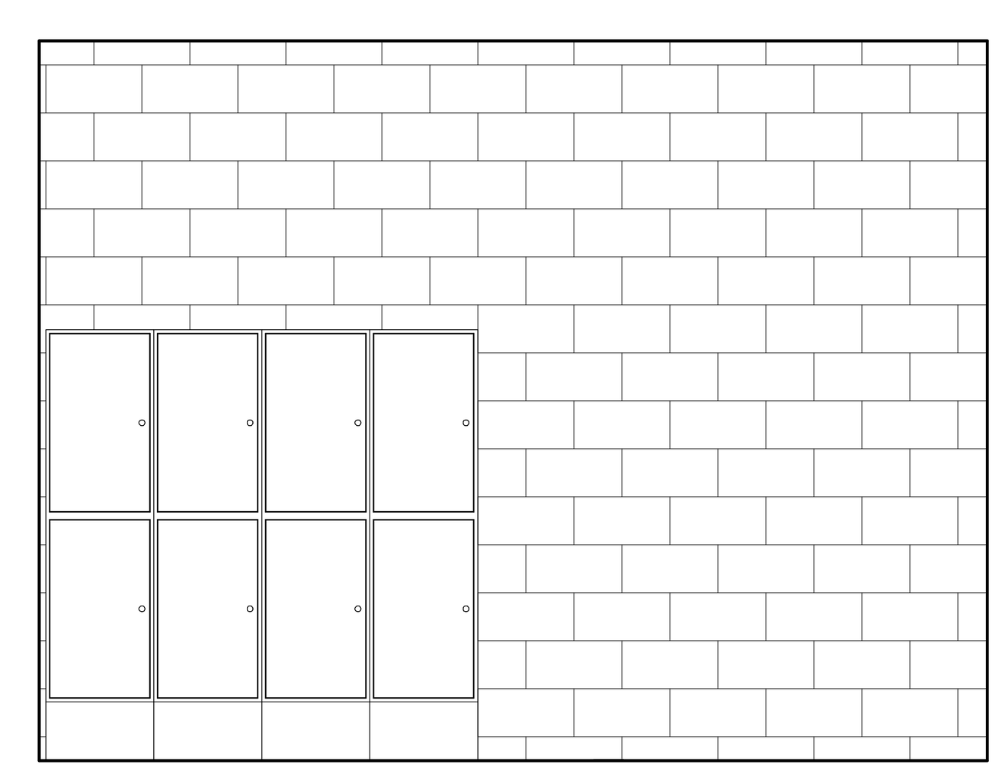
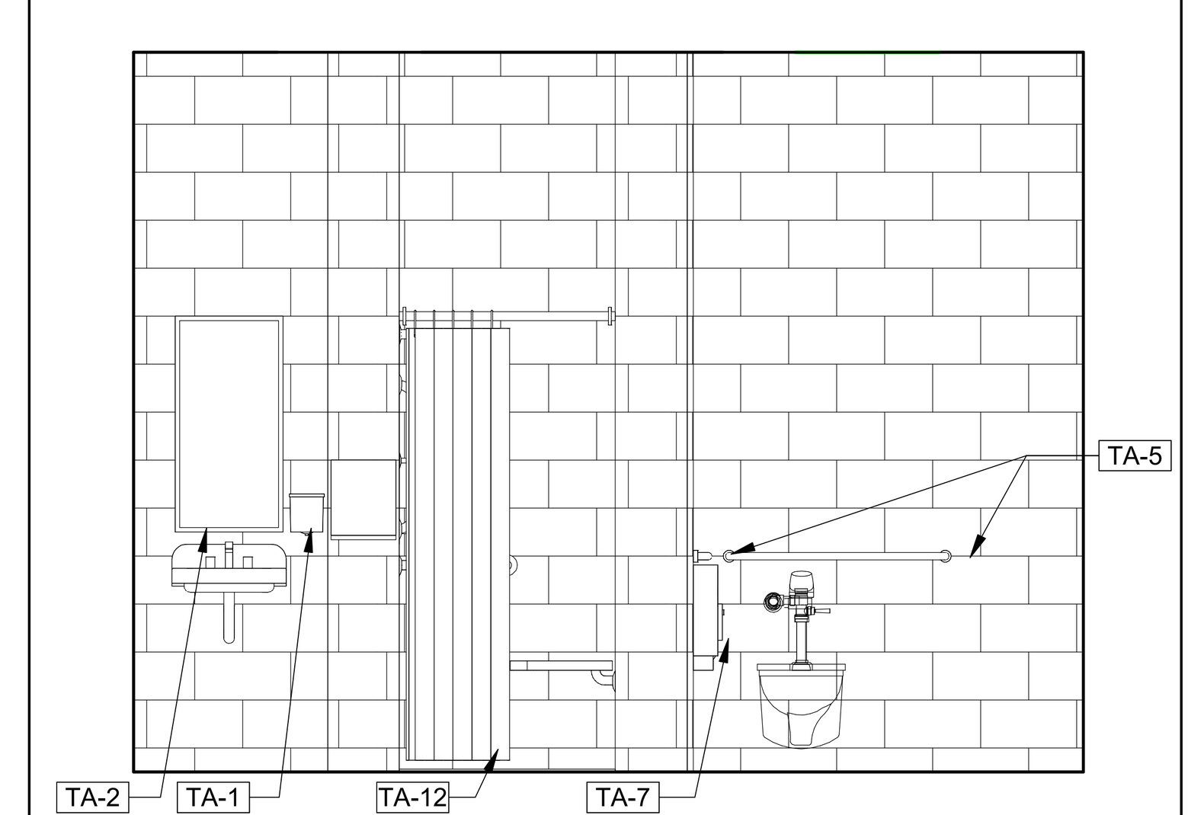
3/8" = 1'-0"



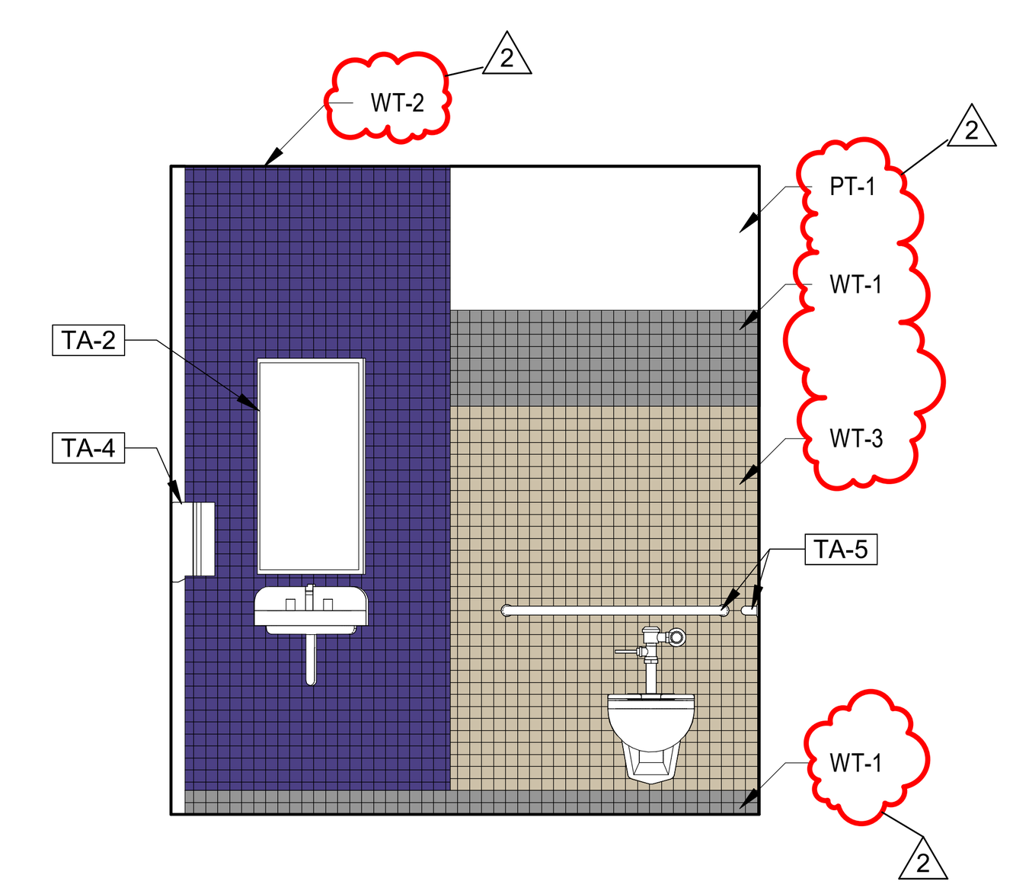
16 4148 RR WEST
3/8" = 1'-0"



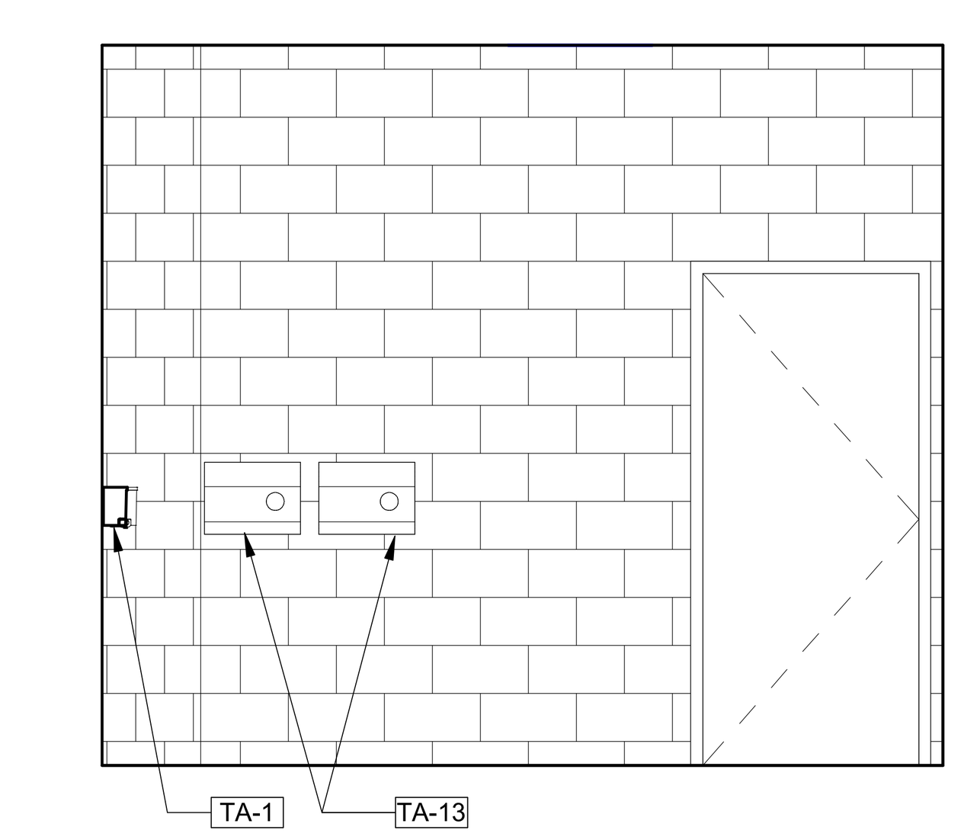
15 4143A, 4144A RR EAST
3/8" = 1'-0"



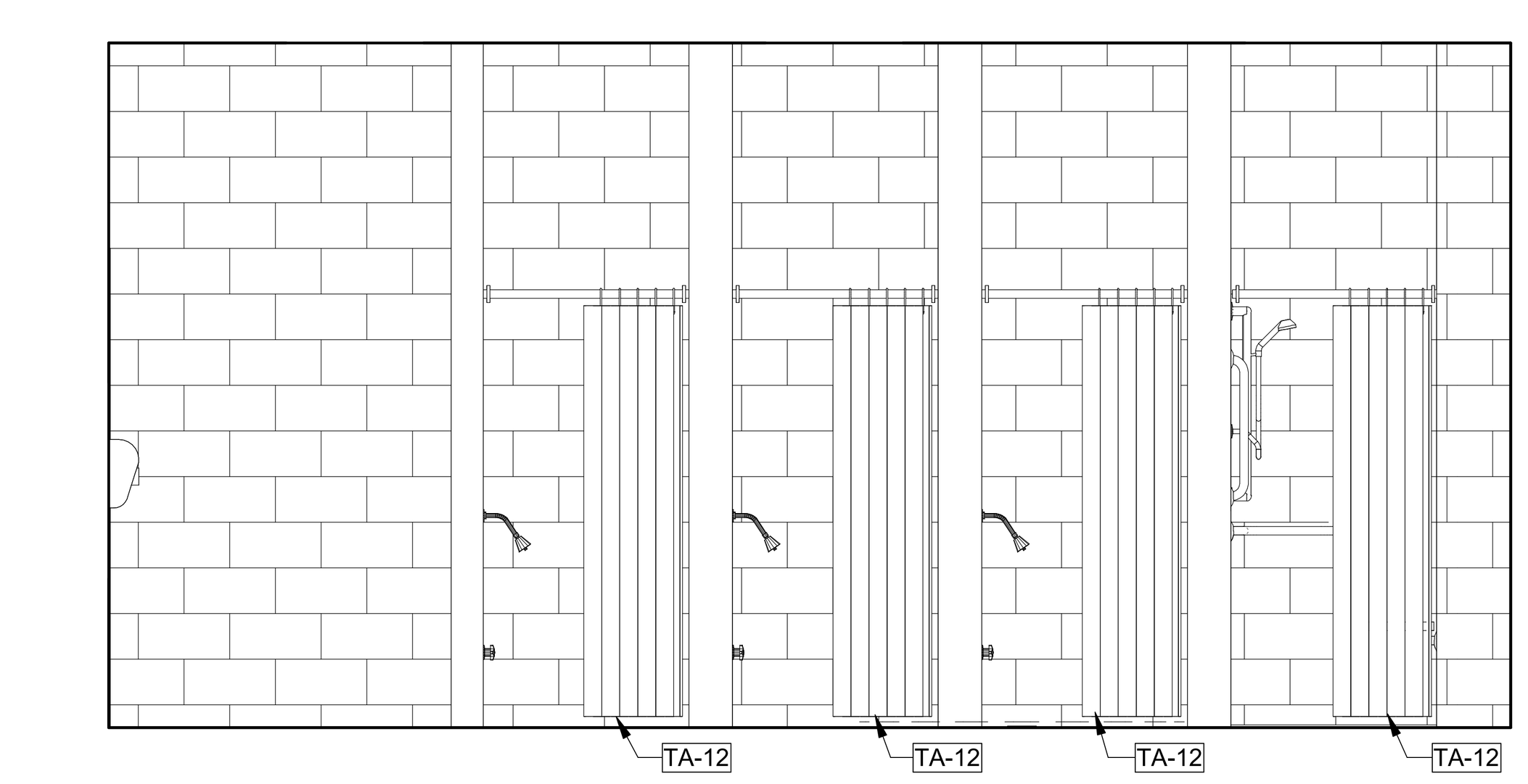
14 4143A, 4144A RR WEST
3/8" = 1'-0"



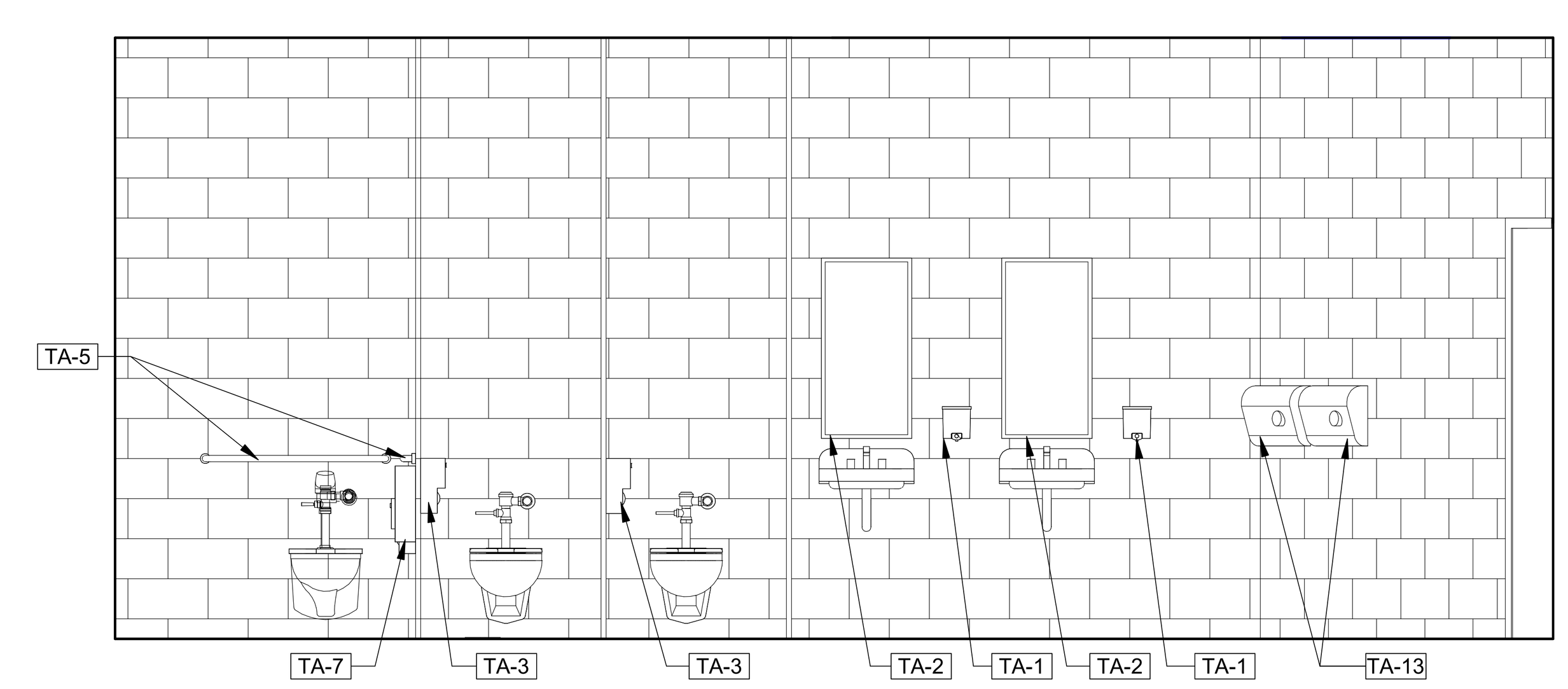
13 9106 & 9107 RR WEST
3/8" = 1'-0"



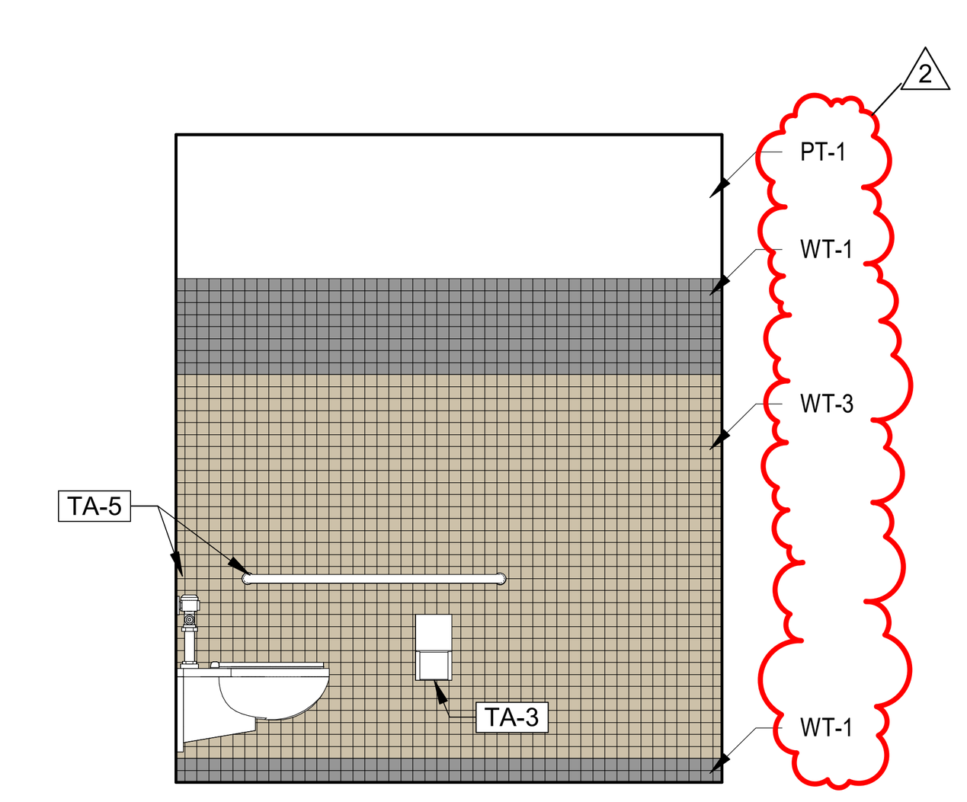
12 4145C RR EAST
3/8" = 1'-0"



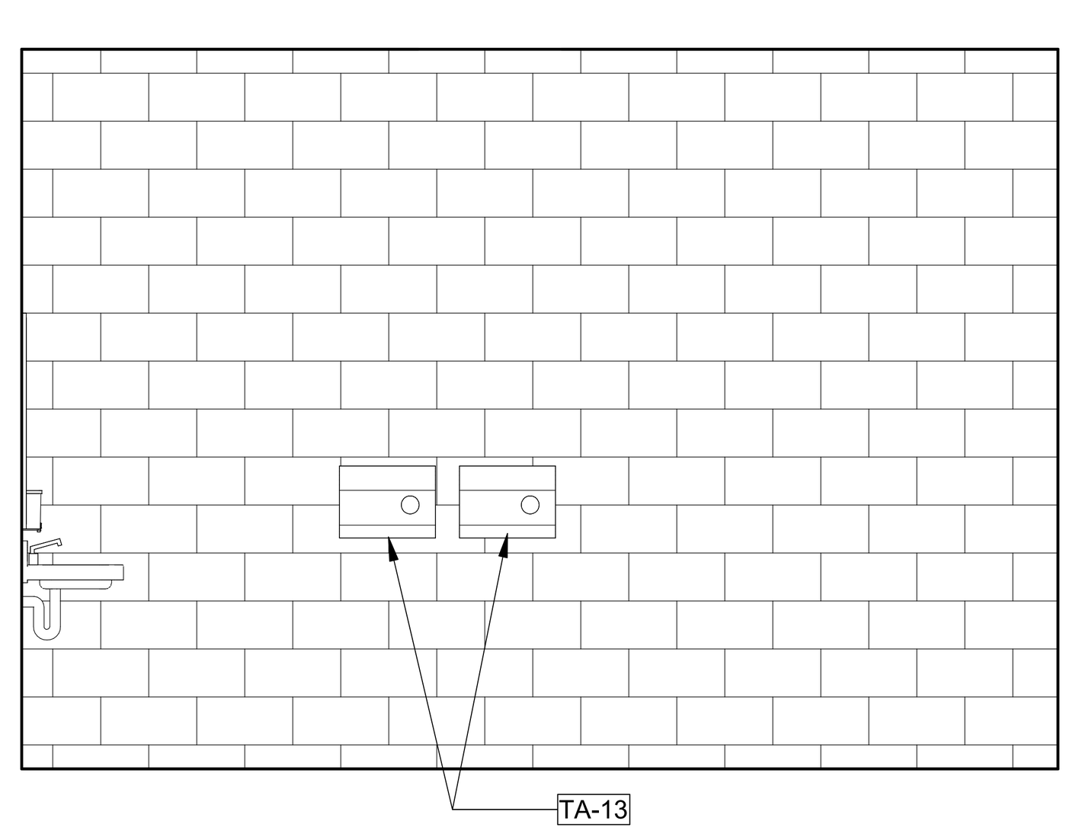
11 4145C RR SOUTH
3/8" = 1'-0"



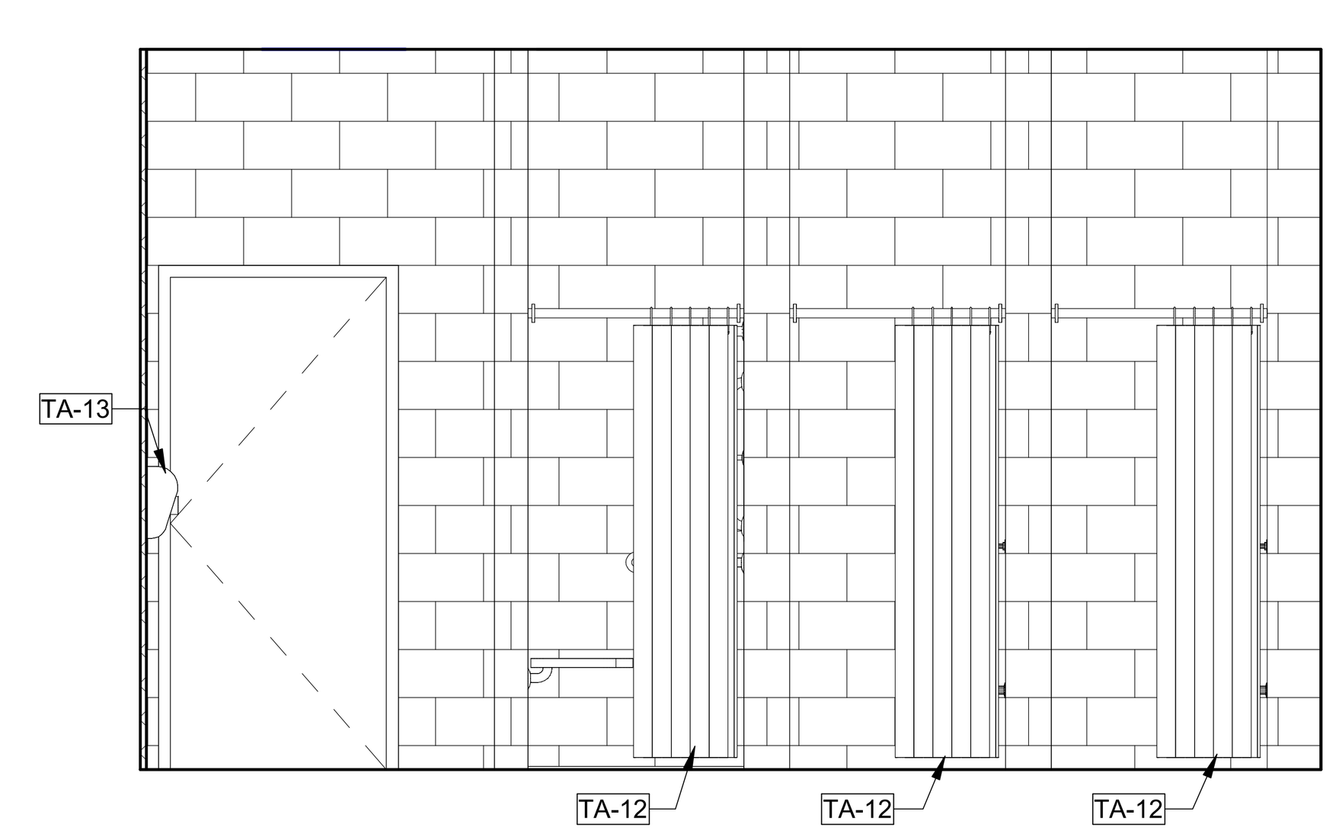
09 4145C RR NORTH
3/8" = 1'-0"



07 9106 & 9107 RR NORTH
3/8" = 1'-0"



06 4148 RR EAST
3/8" = 1'-0"



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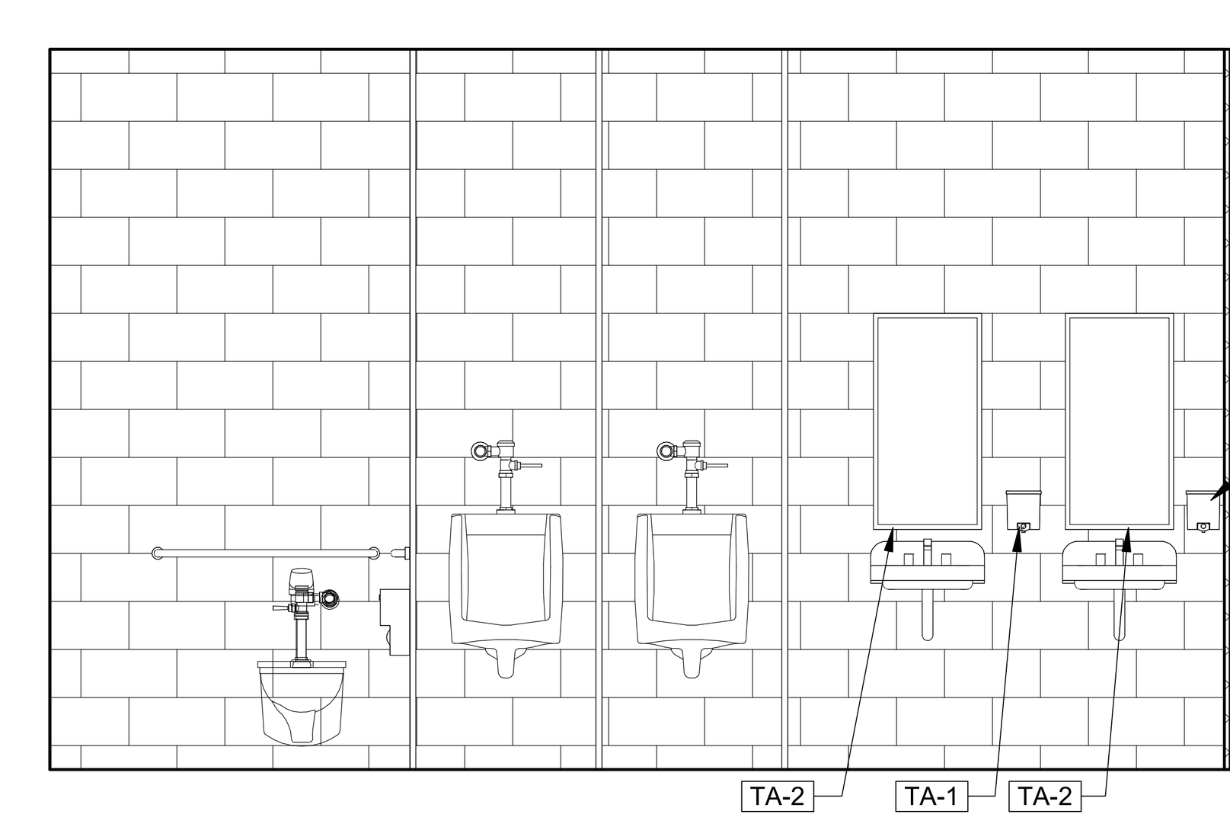
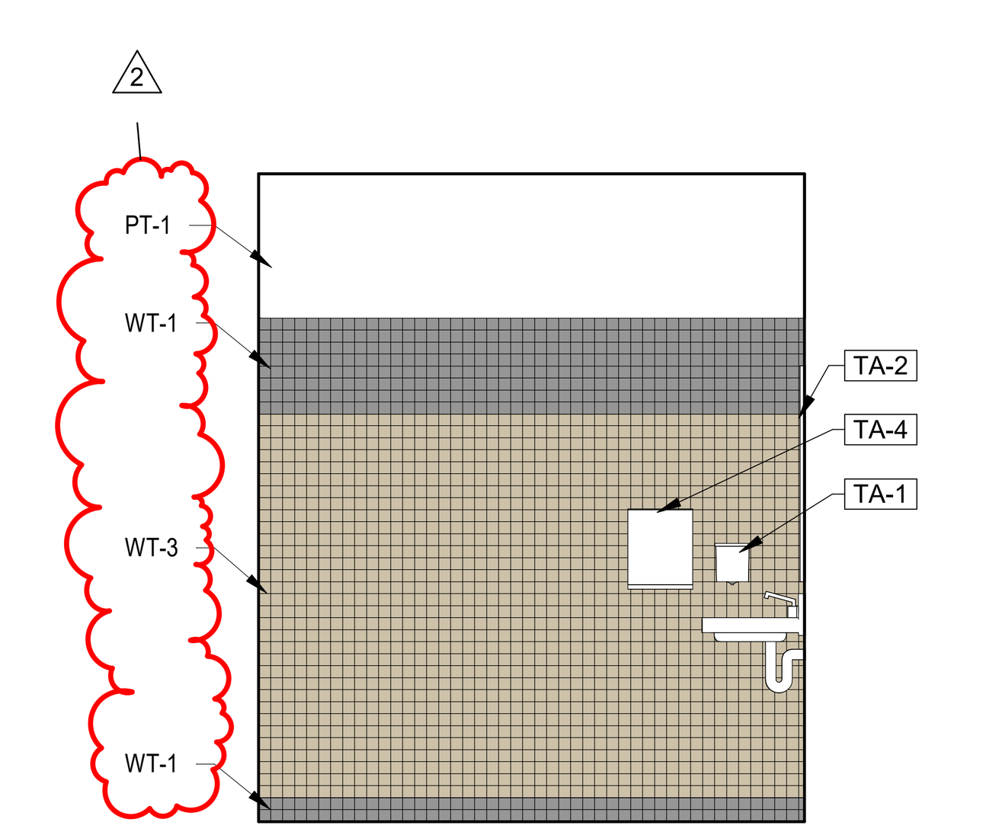


03 4148 RR NORTH
3/8" = 1'-0"



01 9106 & 9107 RR SOUTH
3/8" = 1'-0"

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: F-1608

CIVIL
DIG ENGINEERS
T 713-965-0608

BUILDING ENVELOPE
BEAM PROFESSIONALS
T 713-940-3201

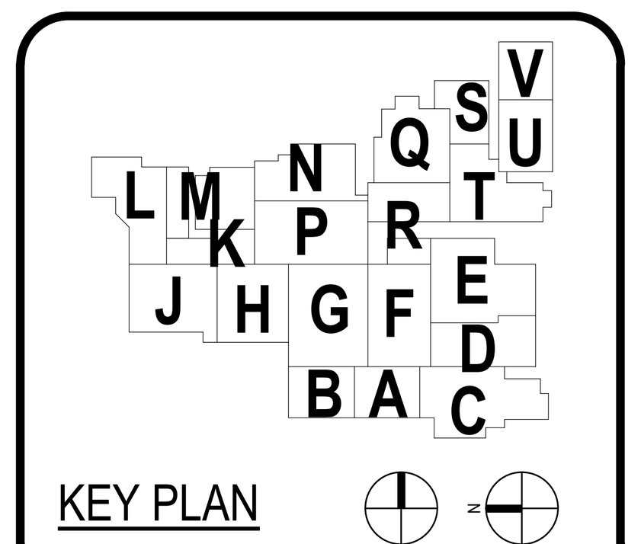
STRUCTURAL
KUBALA ENGINEERS
T 832-737-2639

MEPT
LEAF ENGINEERS
T 713-940-3300

LANDSCAPE
GREENSCAPE ASSOCIATES
T 713-940-3300

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09



DISCIPLINE

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

ENLARGED - RESTROOM ELEVATIONS

A-441

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Author
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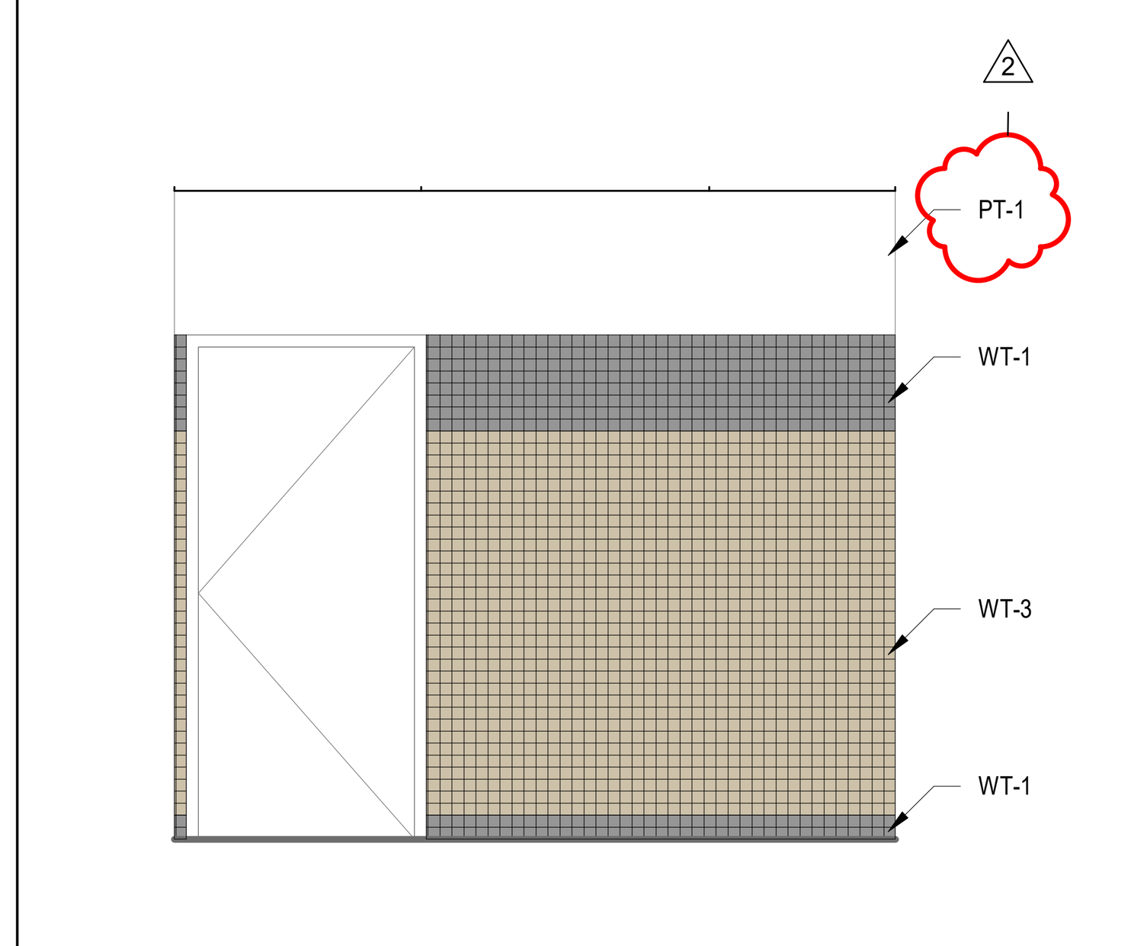
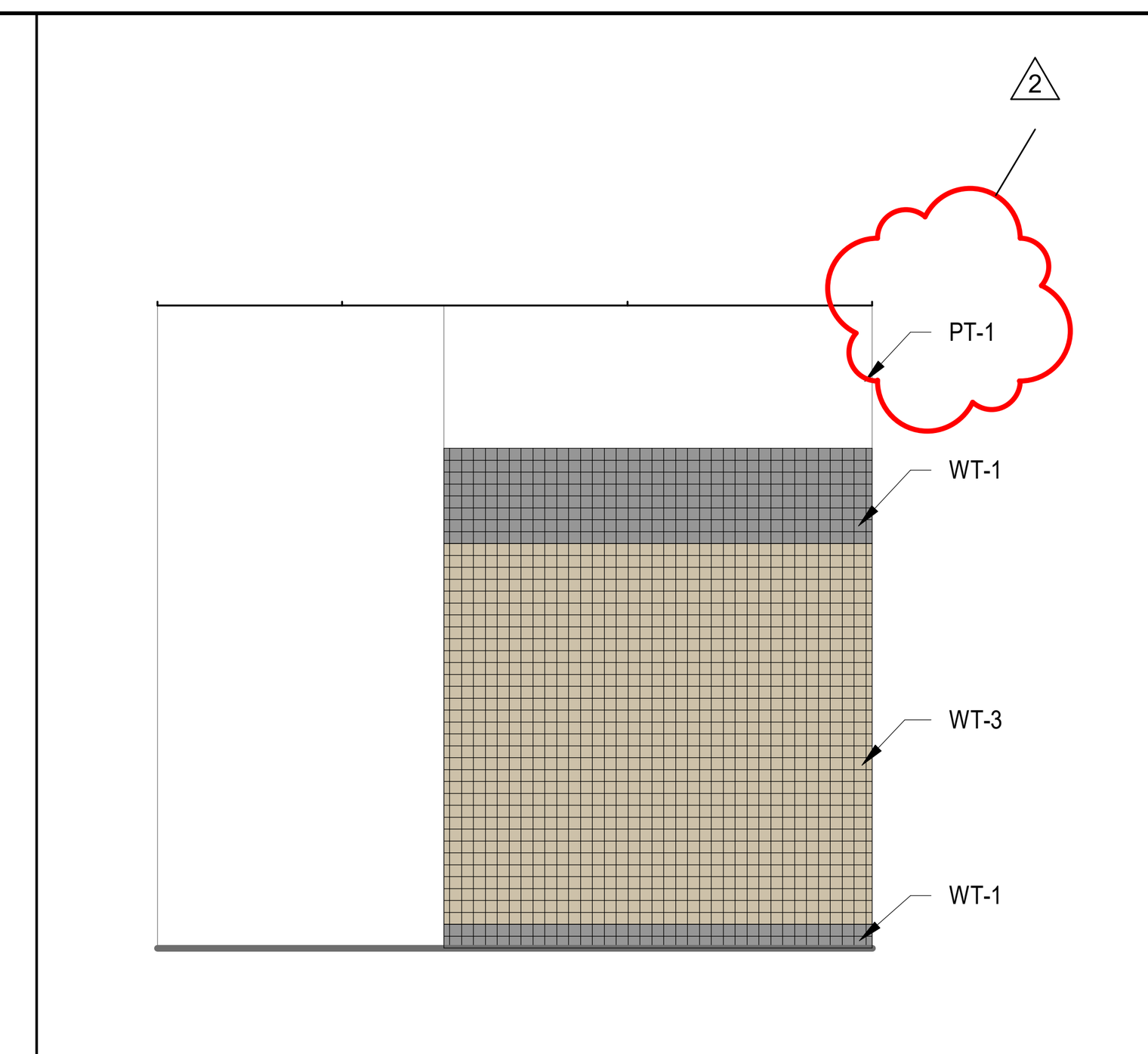
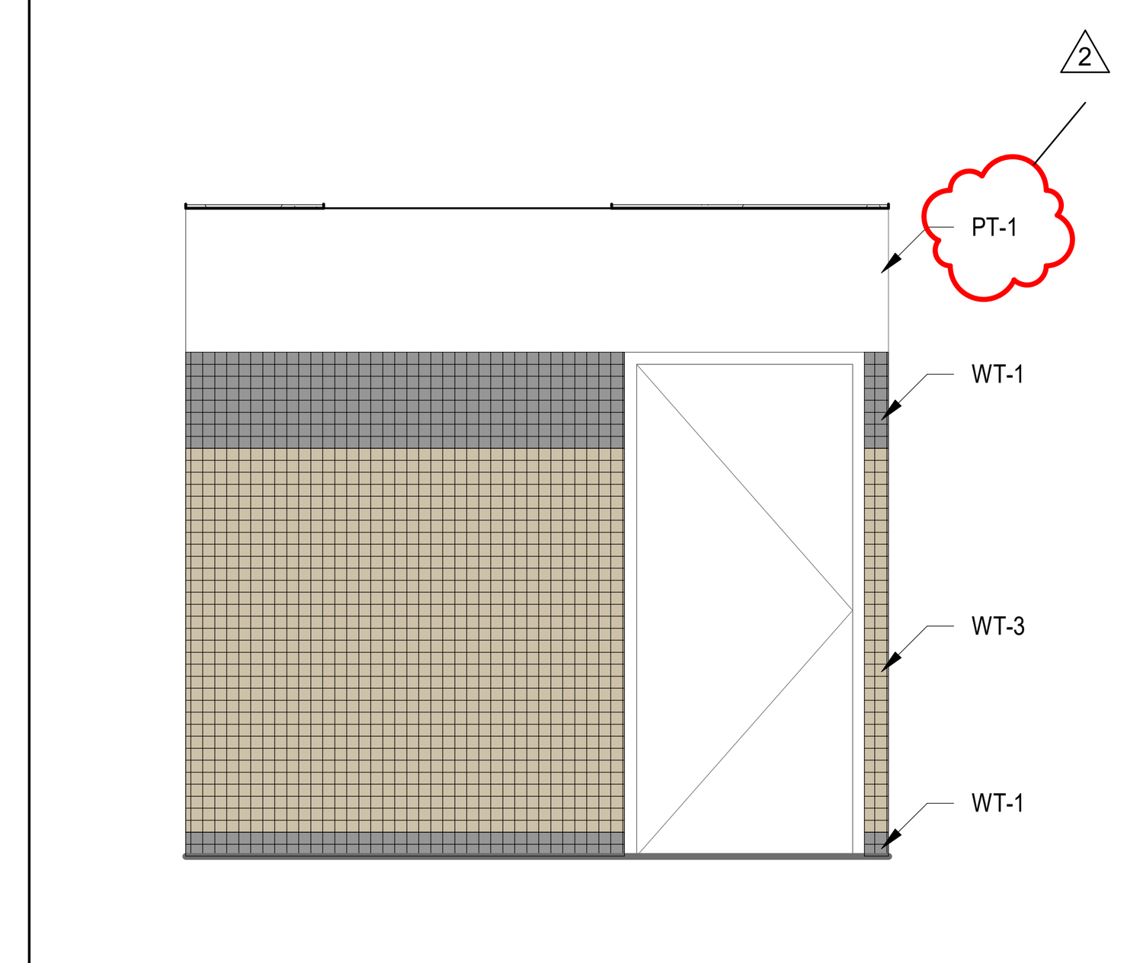


28 RESTROOM 3112 SOUTH 2
3/8" = 1'-0"



27 RESTROOM 3112 NORTH 2
3/8" = 1'-0"



26 RESTROOM 3110 - SOUTH 2
3/8" = 1'-0"

TOILET ACCESSORIES

LABEL	DESCRIPTION	REMARKS
TA-1	SOAP DISPENSER	
TA-2	MIRROR	
TA-3	TOILET PAPER DISPENSER	
TA-4	PAPER TOWEL DISPENSER	
TA-5	GRAB BARS (AT TYPICAL ACCESSIBLE TOILETS)	
TA-6	SANITARY NAPKIN DISPENSER	
TA-7	SANITARY NAPKIN DISPOSAL	
TA-8	MOP AND BROOM HOLDER	
TA-9	GRAB BARS (AT ACCESSIBLE SHOWERS)	
TA-10	FOLDING SHOWER BENCH	
TA-11	CLOTHES HOOK	NOTE 5
TA-12	SHOWER CURTAIN, ROD AND HOOKS	
TA-13	NOT USED	
TA-14	NOT USED	
TA-15	NOT USED	
TA-16	NOT USED	
TA-17	NOT USED	
TA-18	ELECTRIC HAND DRYER	
TA-19	SEAT COVER DISPENSER	
TA-20	SPECIMEN PASSTHRU	

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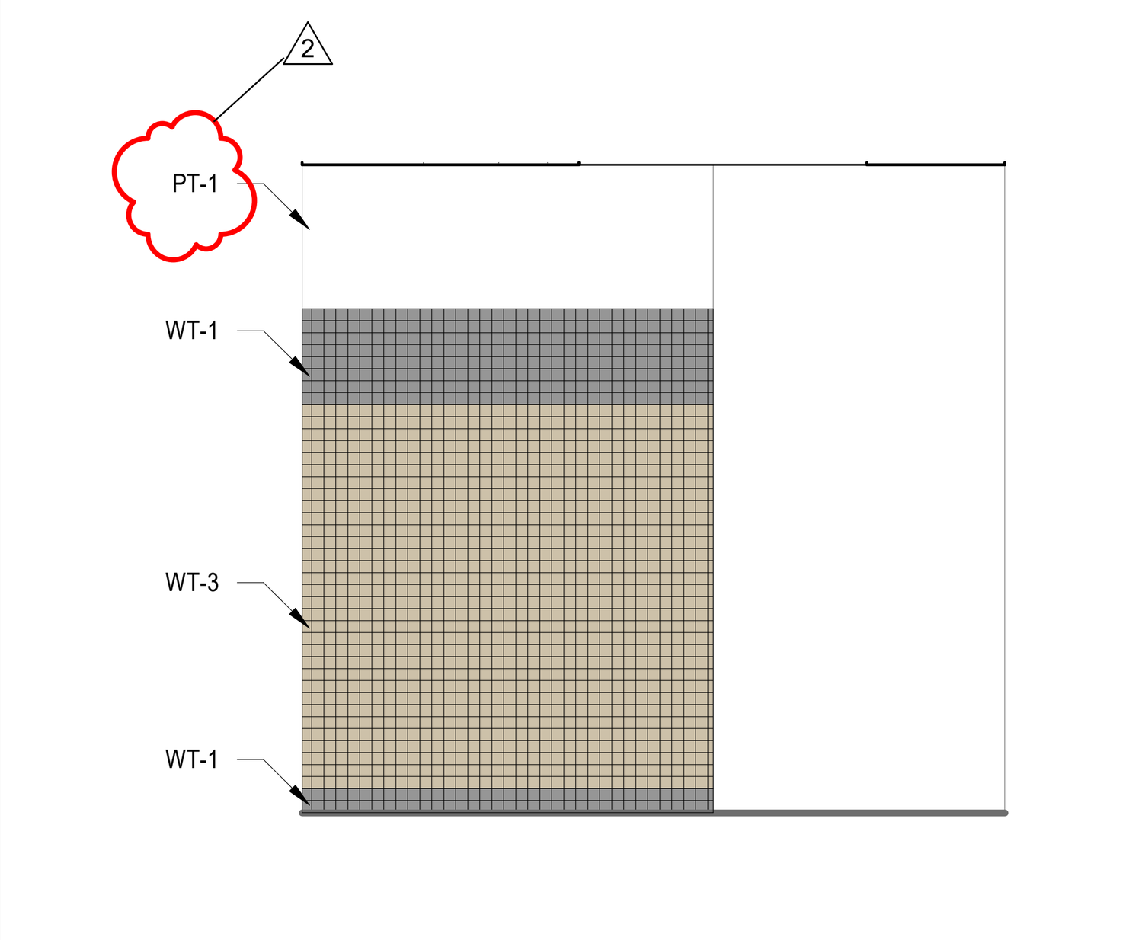
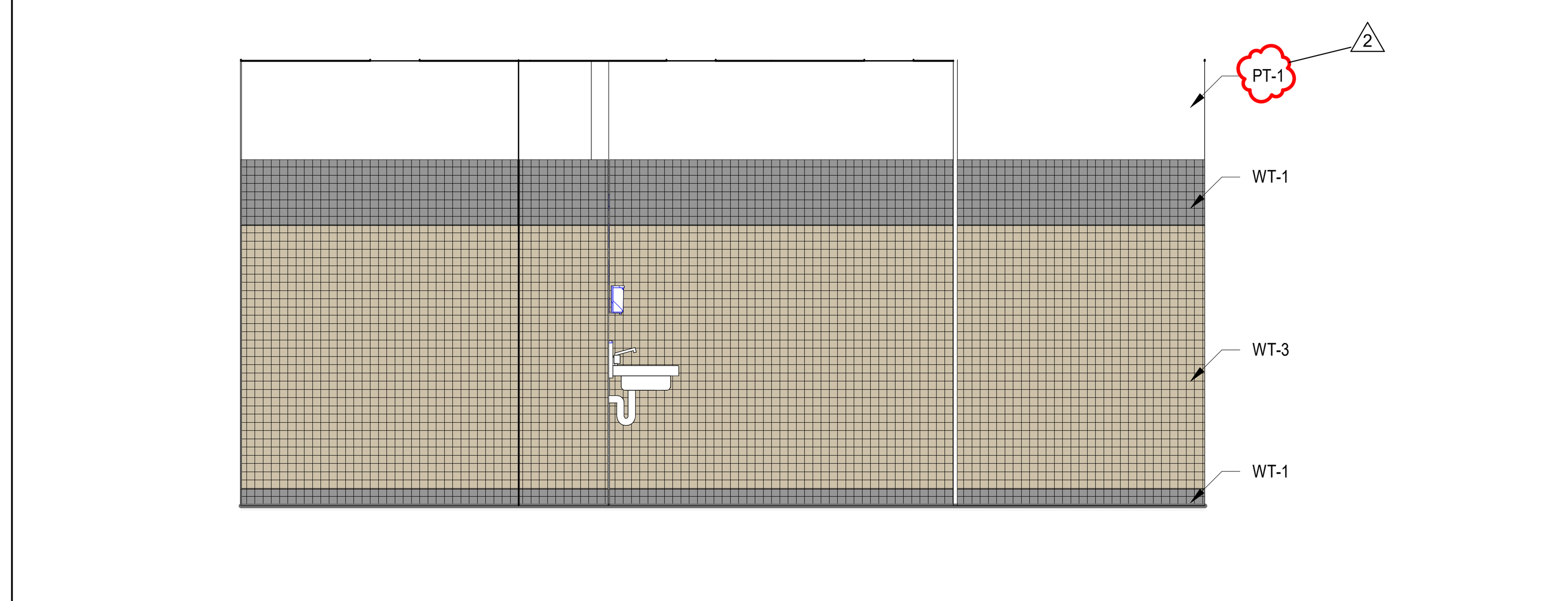
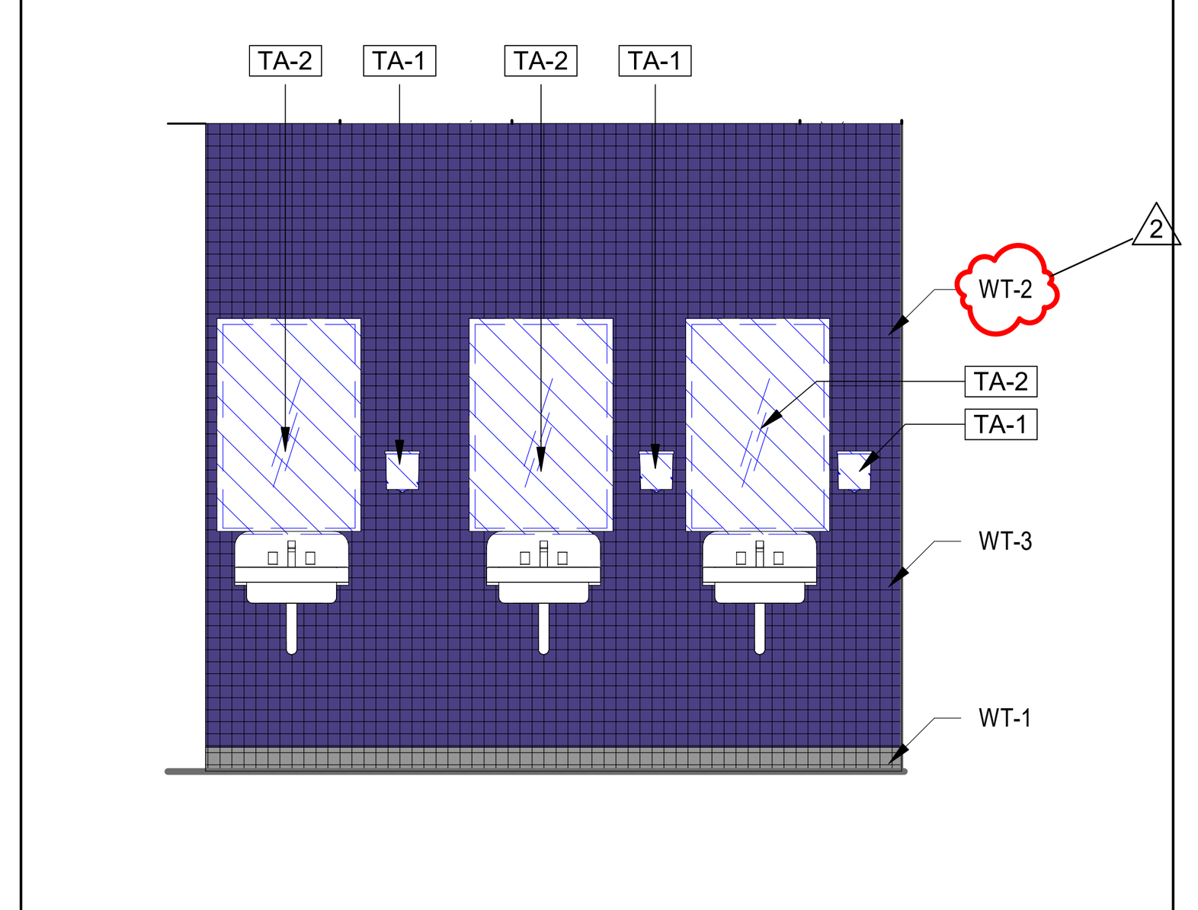


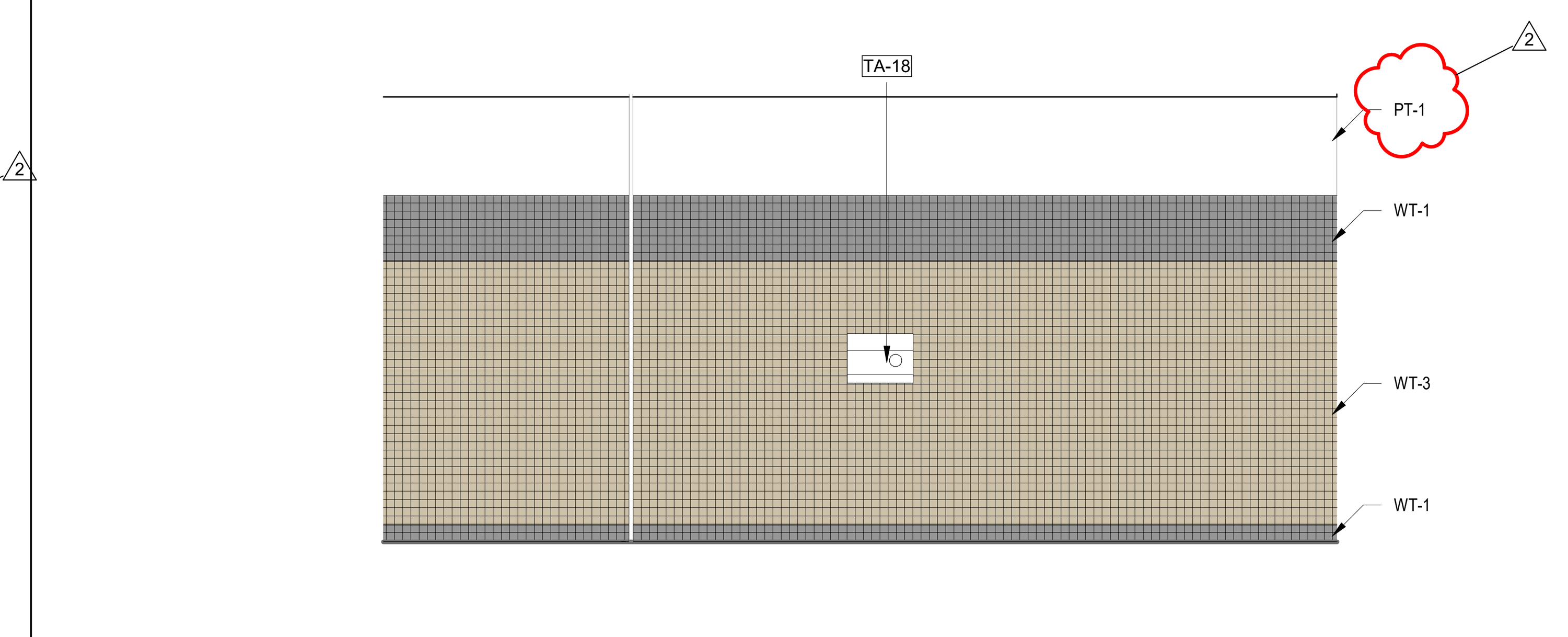
24 RESTROOM 3110 - NORTH 2
3/8" = 1'-0"



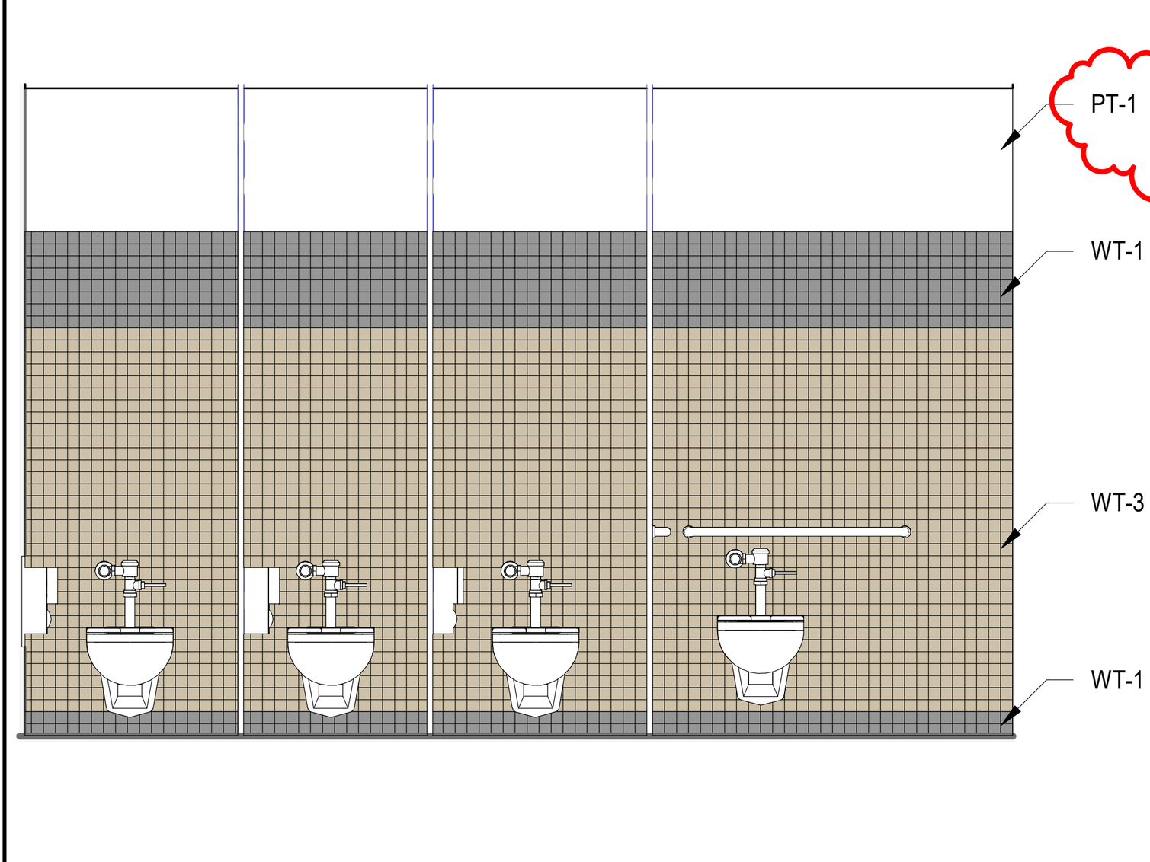
23 RESTROOM 3110 - WEST
3/8" = 1'-0"



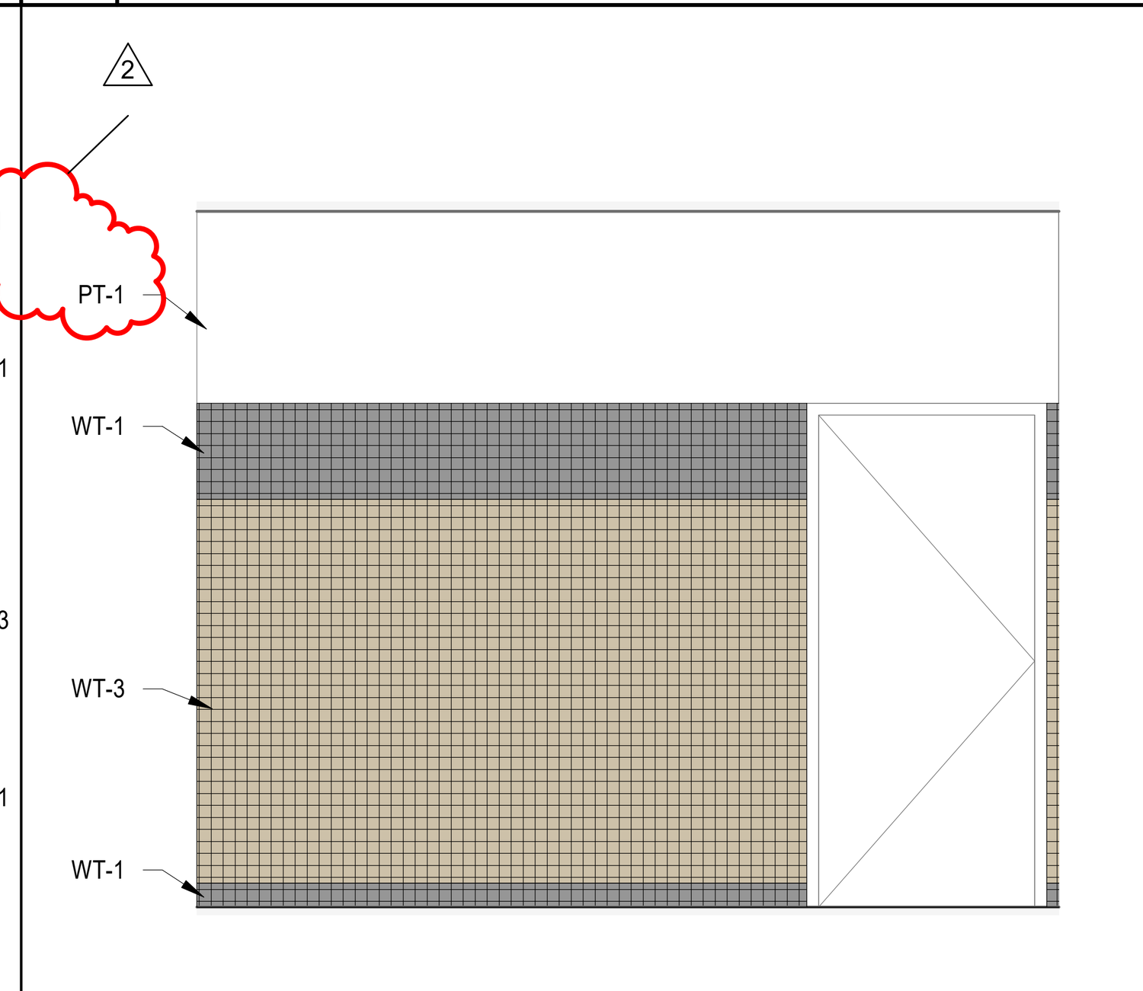
21 RESTROOM 3112 - SOUTH
3/8" = 1'-0"



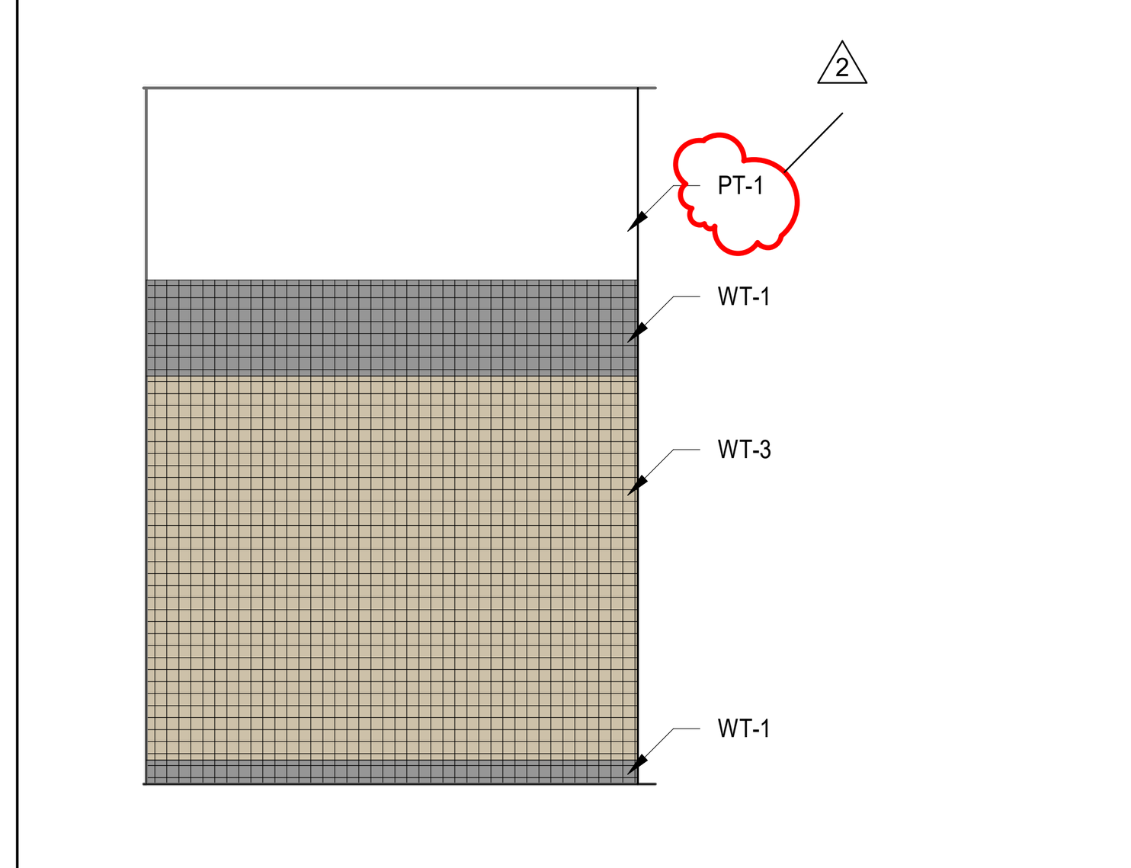
20 RESTROOM 3112- EAST
3/8" = 1'-0"



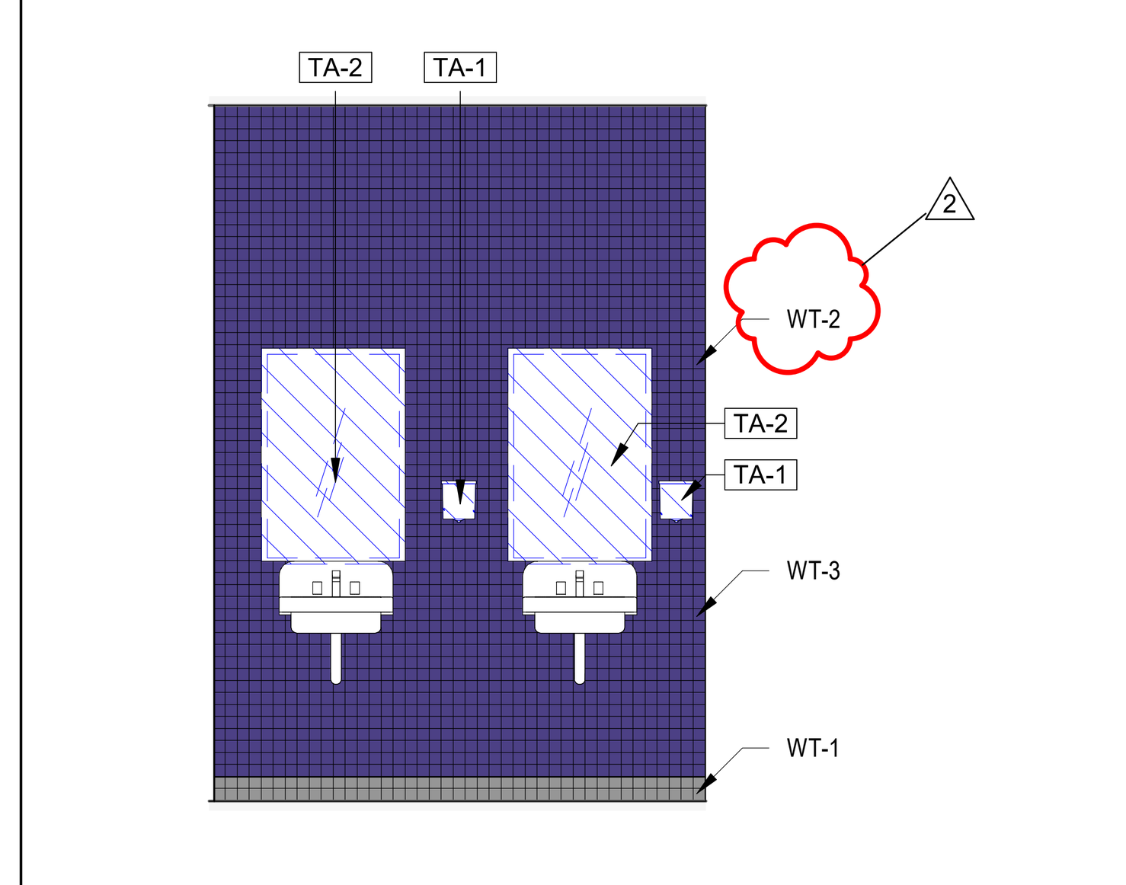
18 RESTROOM 3112 - NORTH
3/8" = 1'-0"



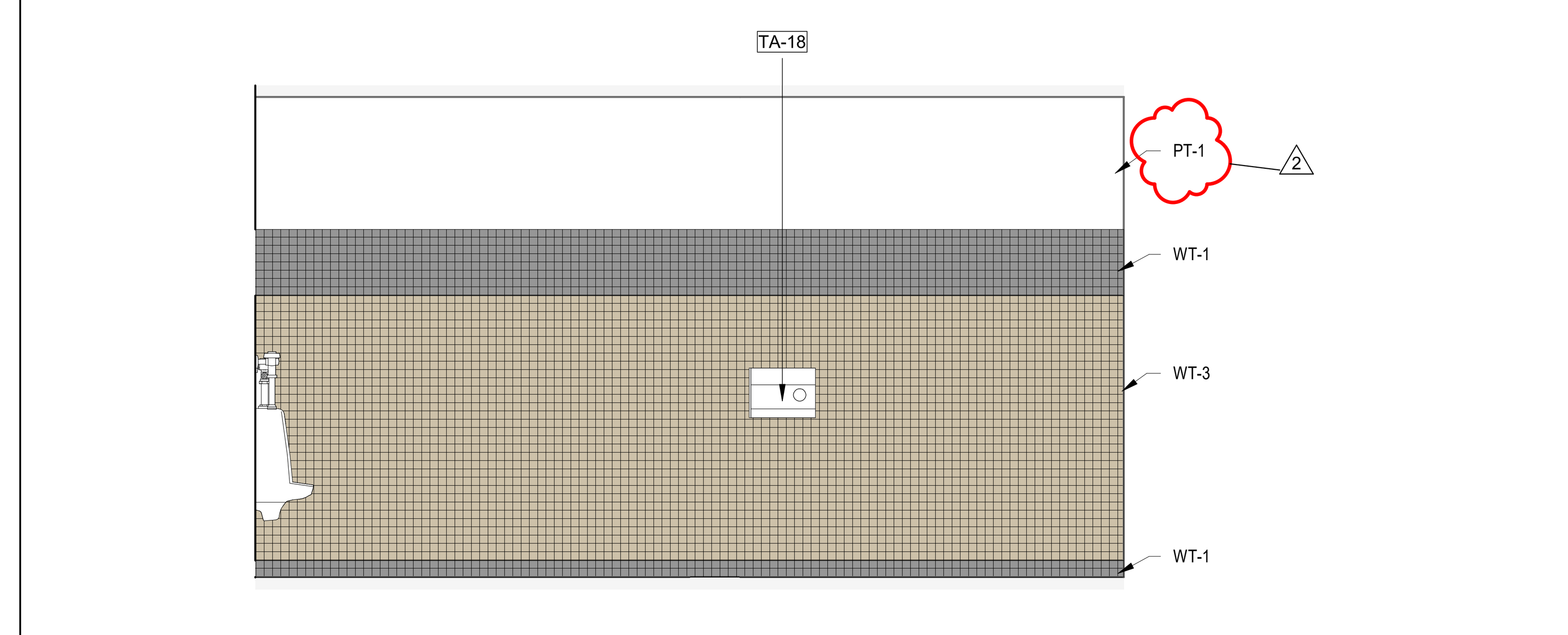
17 RESTROOM 2154 WEST 2
3/8" = 1'-0"



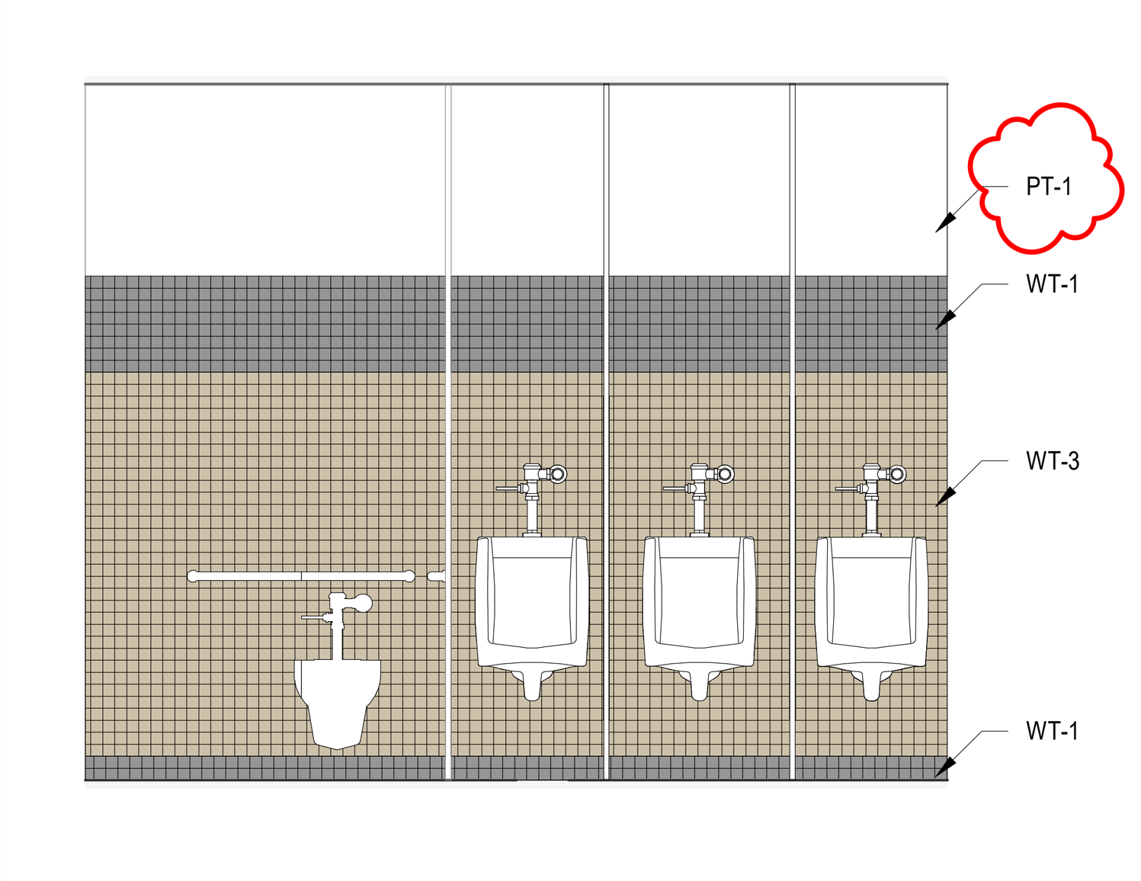
16 RESTROOM 2154 EAST 2
3/8" = 1'-0"



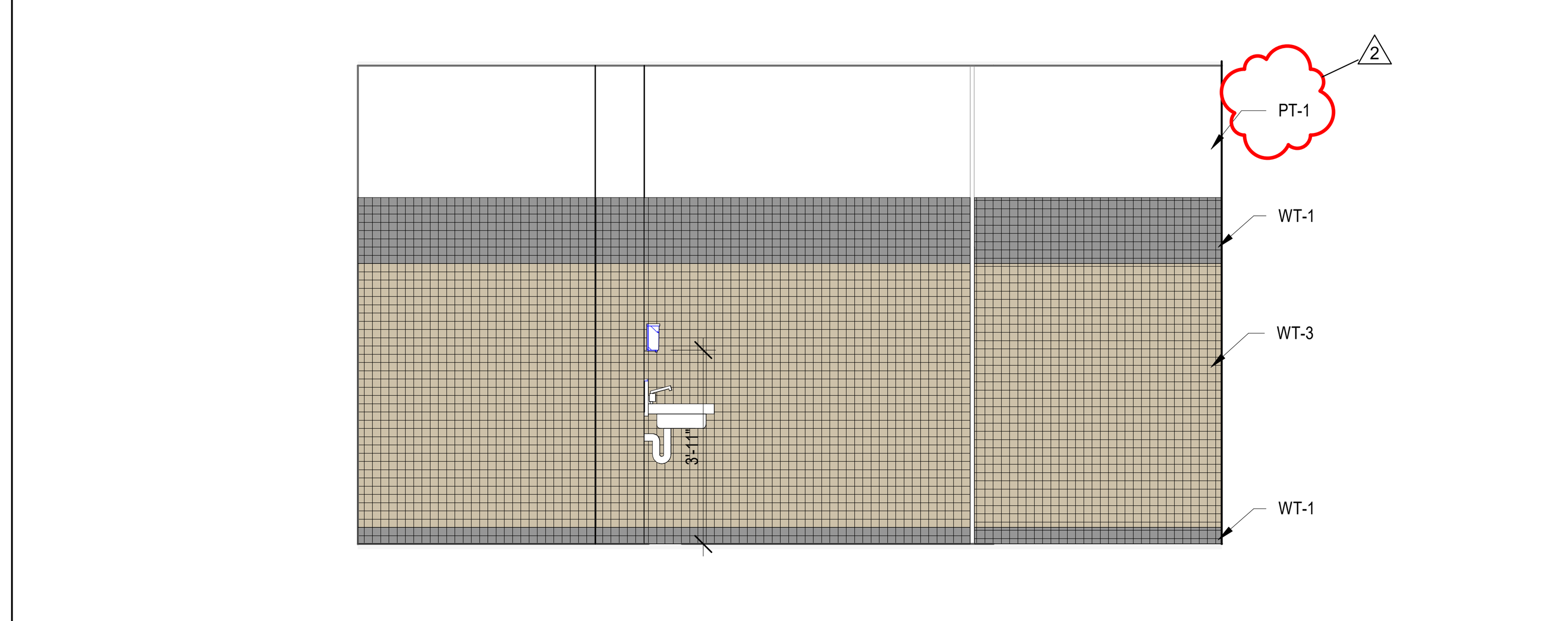
15 RESTROOM 2154 WEST
3/8" = 1'-0"



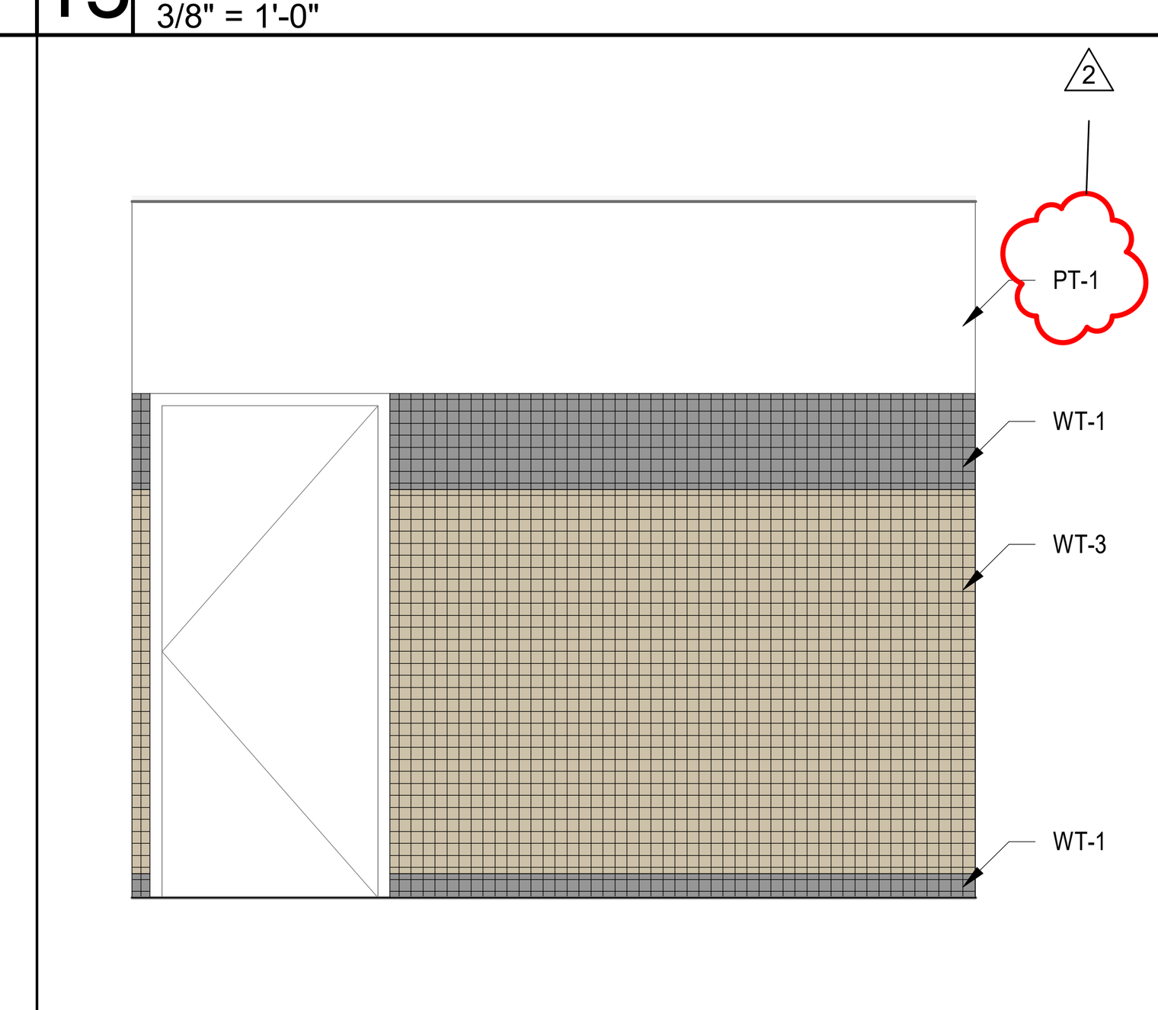
14 RESTTOOM 2154 SOUTH
3/8" = 1'-0"



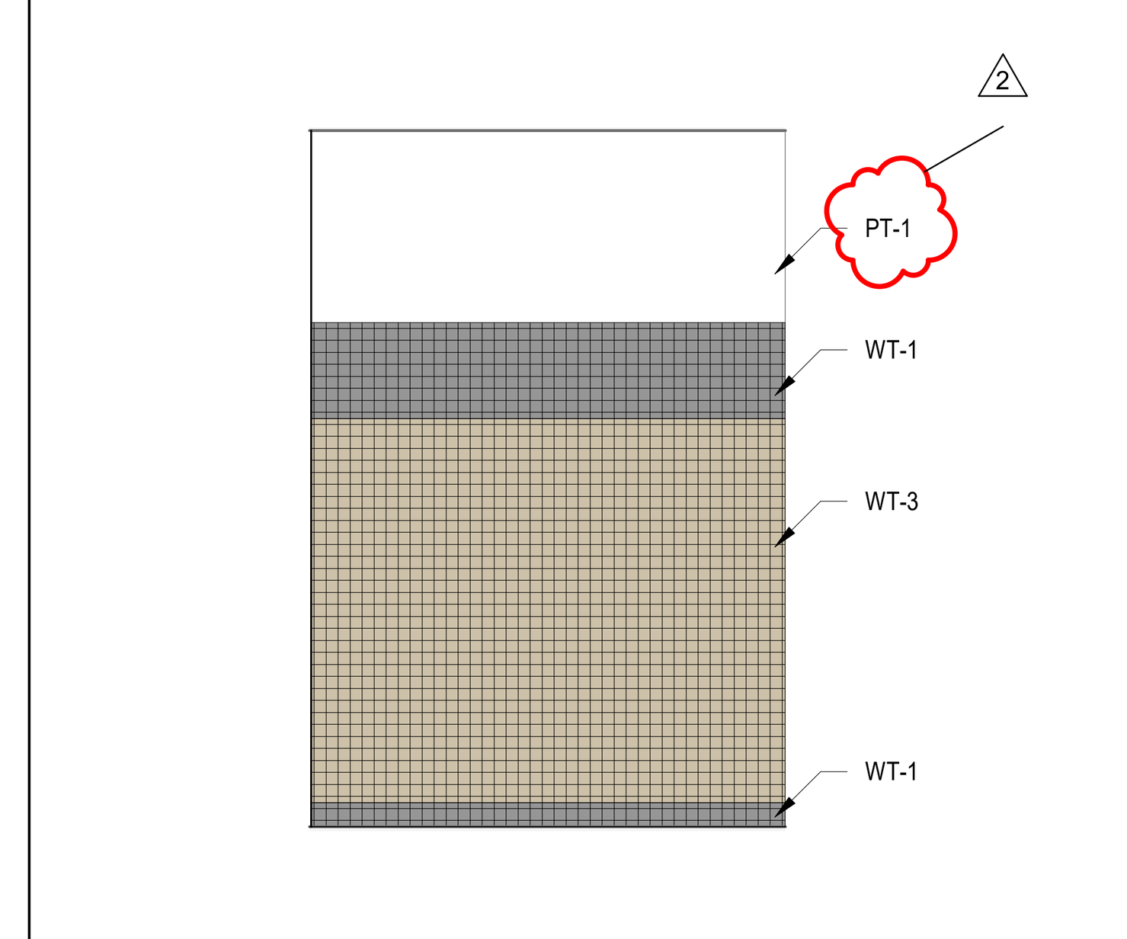
12 RESTROOM 2154 EAST
3/8" = 1'-0"



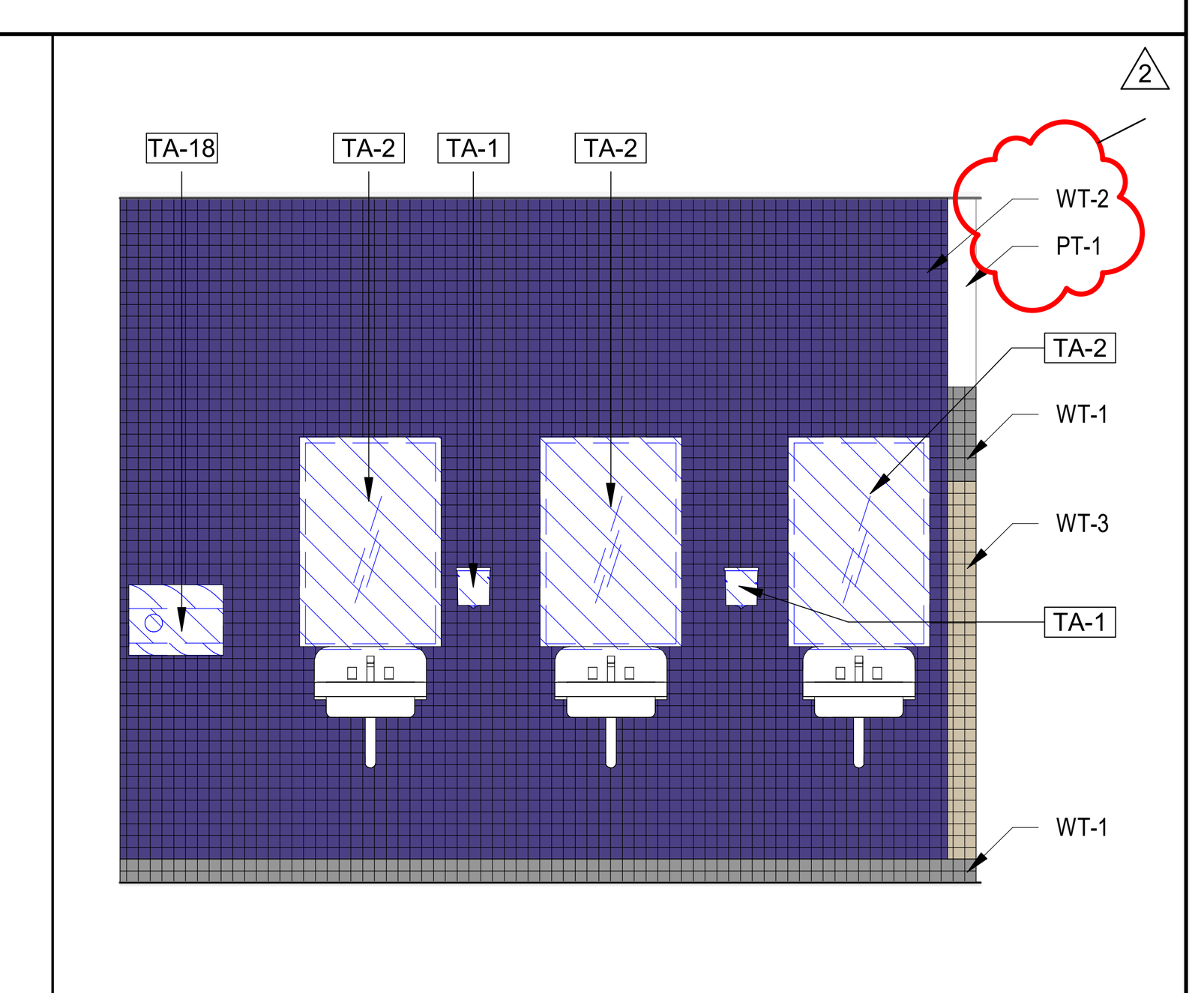
11 RESTROOM 2154 NORTH
3/8" = 1'-0"



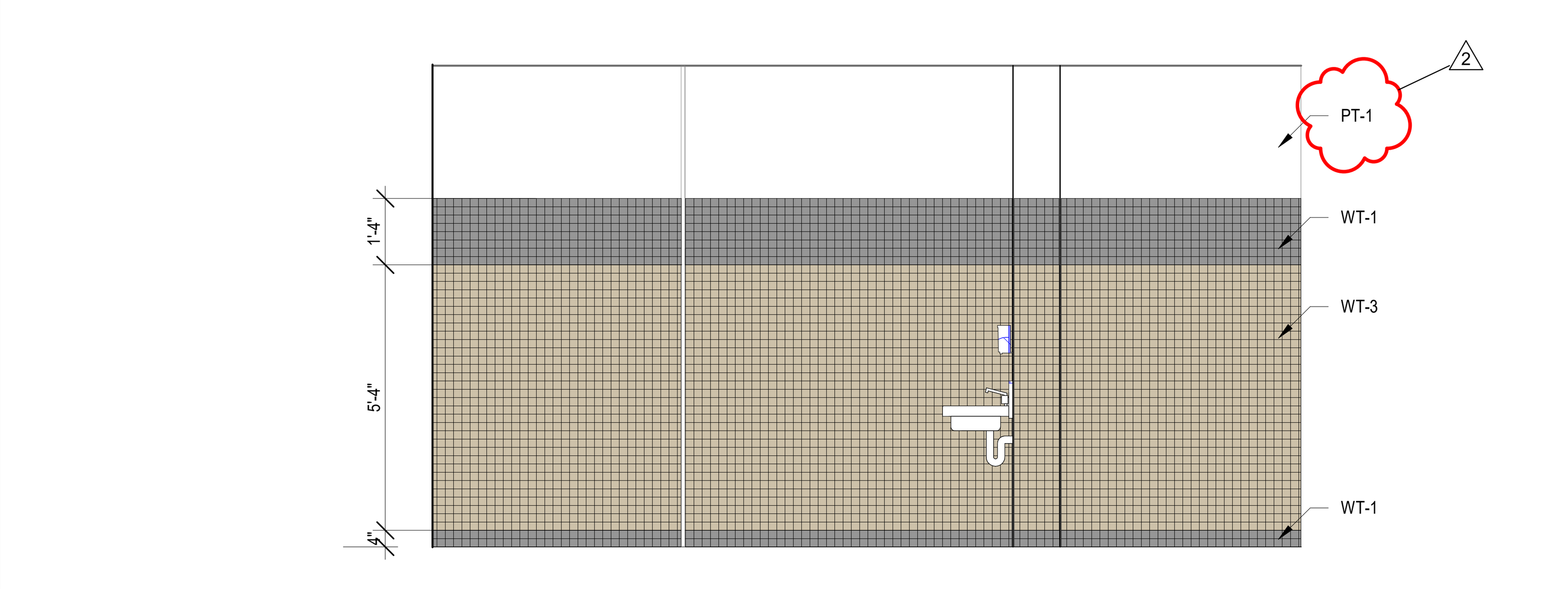
09 RESTROOM 2155 WEST 2
3/8" = 1'-0"



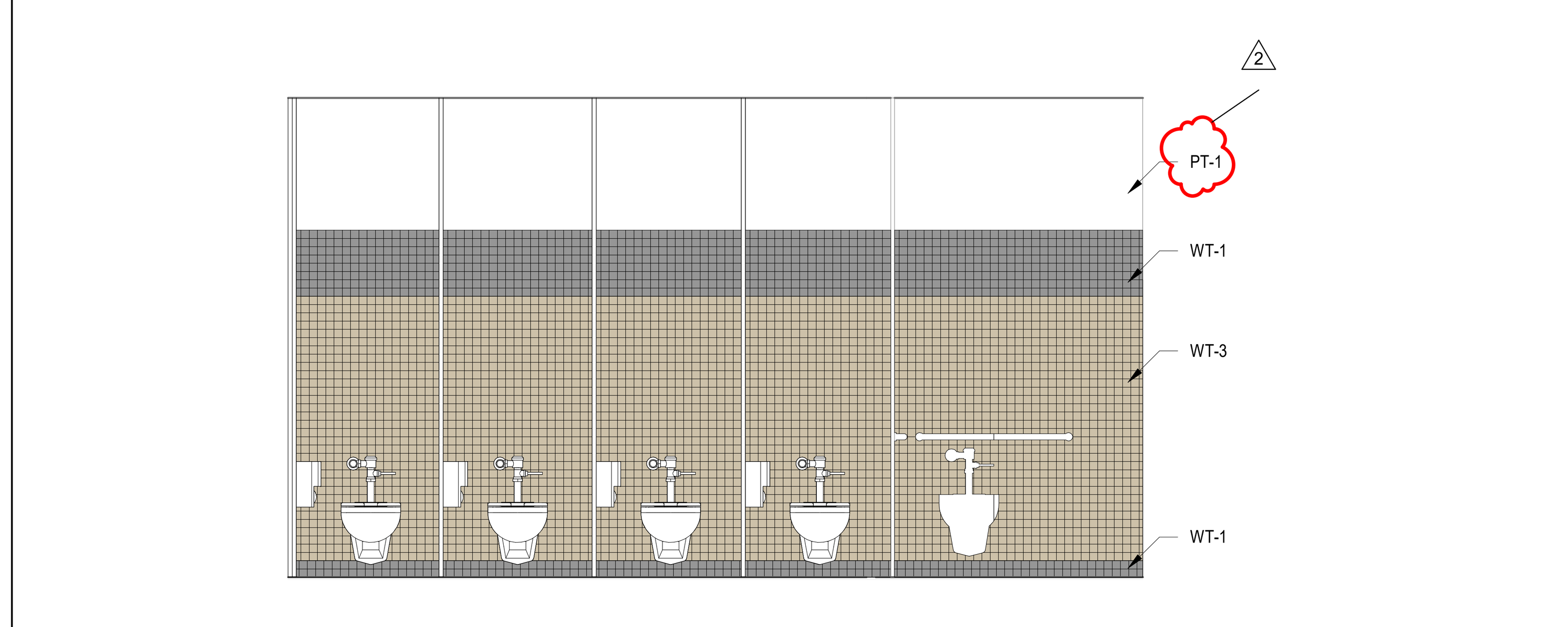
08 RESTROOM 2155 EAST 2
3/8" = 1'-0"



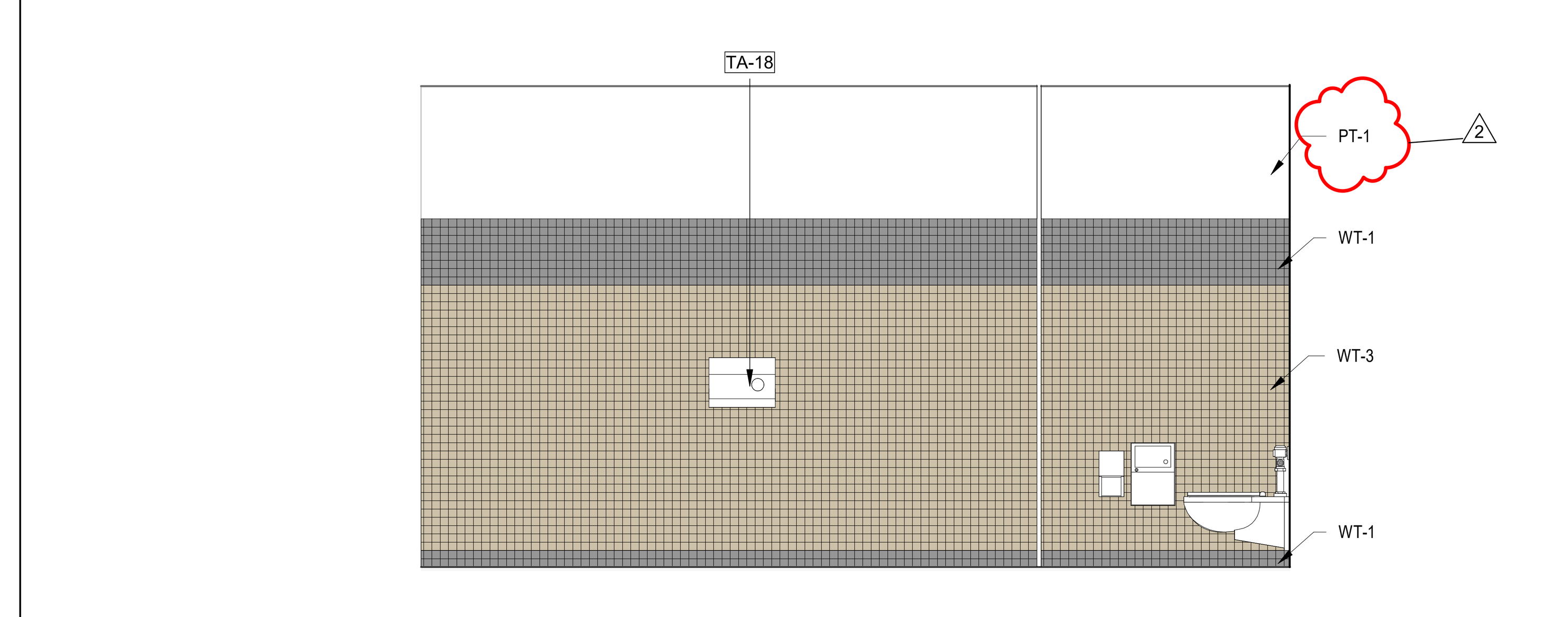
07 RESTROOM 2155 WEST
3/8" = 1'-0"



06 RESTROOM 2155 SOUTH
3/8" = 1'-0"



04 RESTROOM 2155 EAST
3/8" = 1'-0"



02 RESTROOM 2155 NORTH
3/8" = 1'-0"

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: F-1608

CIVIL
DIG ENGINEERS
T 713-965-0608

BUILDING ENVELOPE
BEAM PROFESSIONALS
T 713-940-3201

STRUCTURAL
KUBALA ENGINEERS
T 832-737-2639

MEPT
LEAF ENGINEERS
T 713-940-3300

LANDSCAPE
GREENSCAPE ASSOCIATES
T 713-940-3300

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338

ISSUE FOR PROPOSAL
CSP: 2025-09

KEY PLAN

NORTH: PLAN TRUE

DISCIPLINE

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

ENLARGED - RESTROOM ELEVATIONS

A-442

ENLARGED - RESTROOM ELEVATIONS
A-442
FOR BLUEBEAM LABELING/OCR:

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Checker
DRAWN BY:
Author
Plot Stamp:
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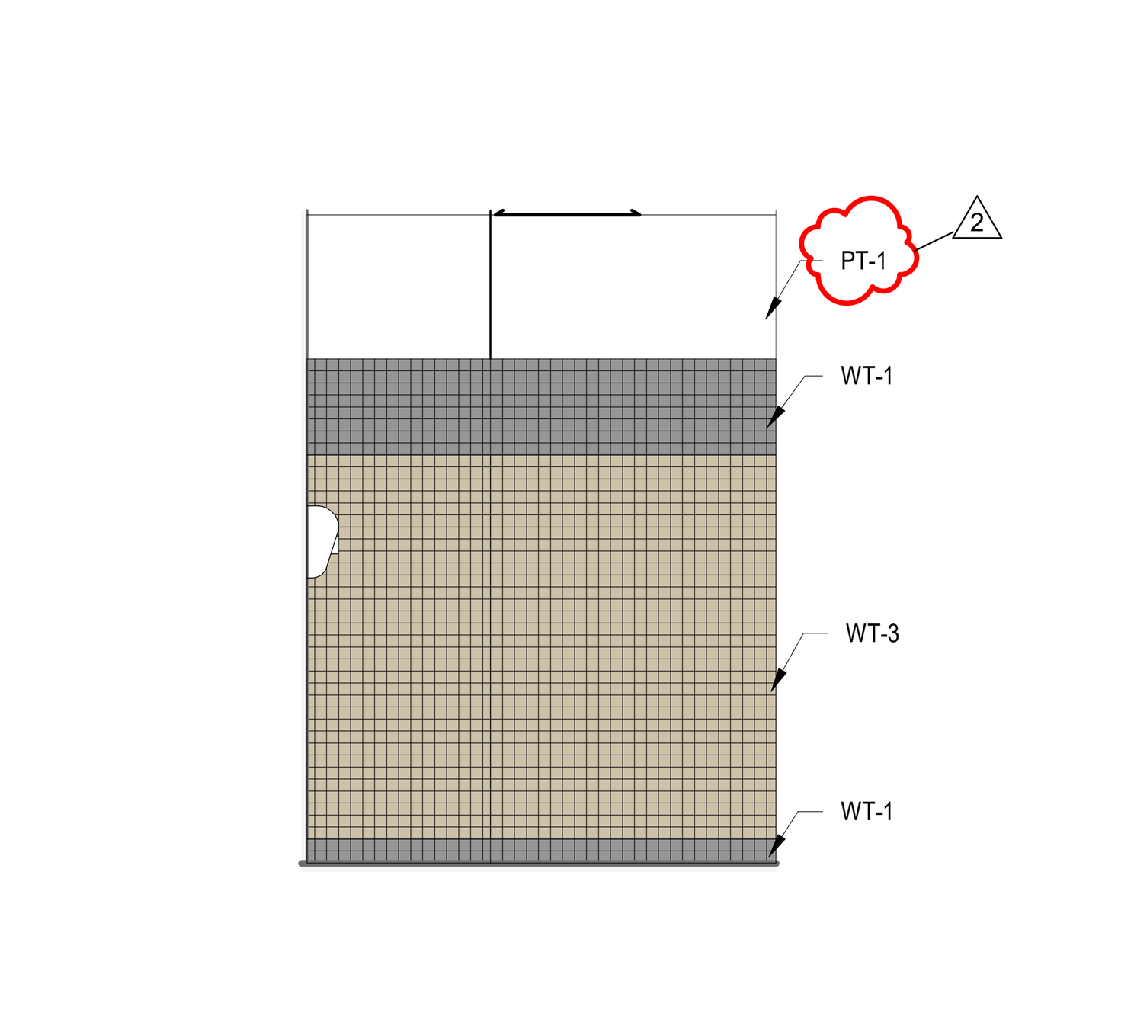
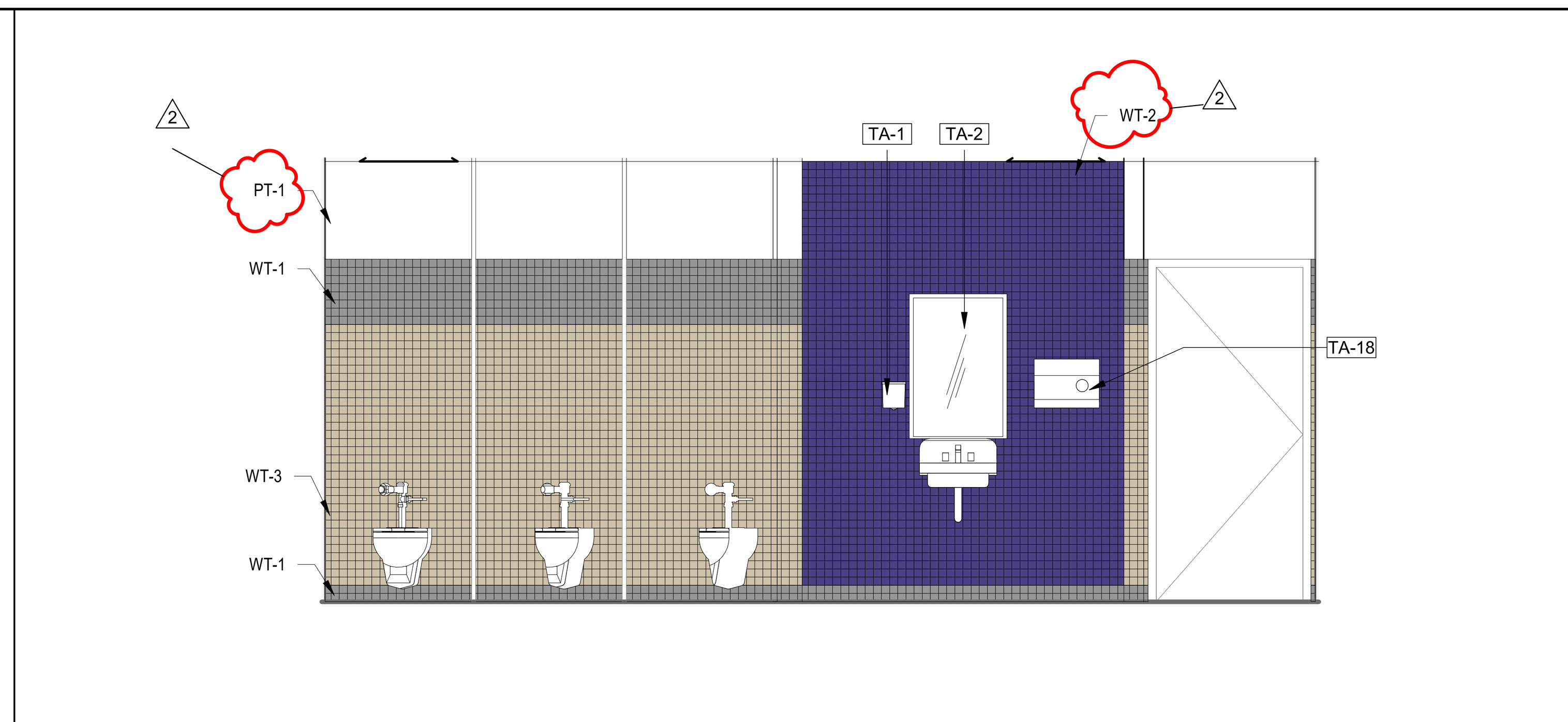
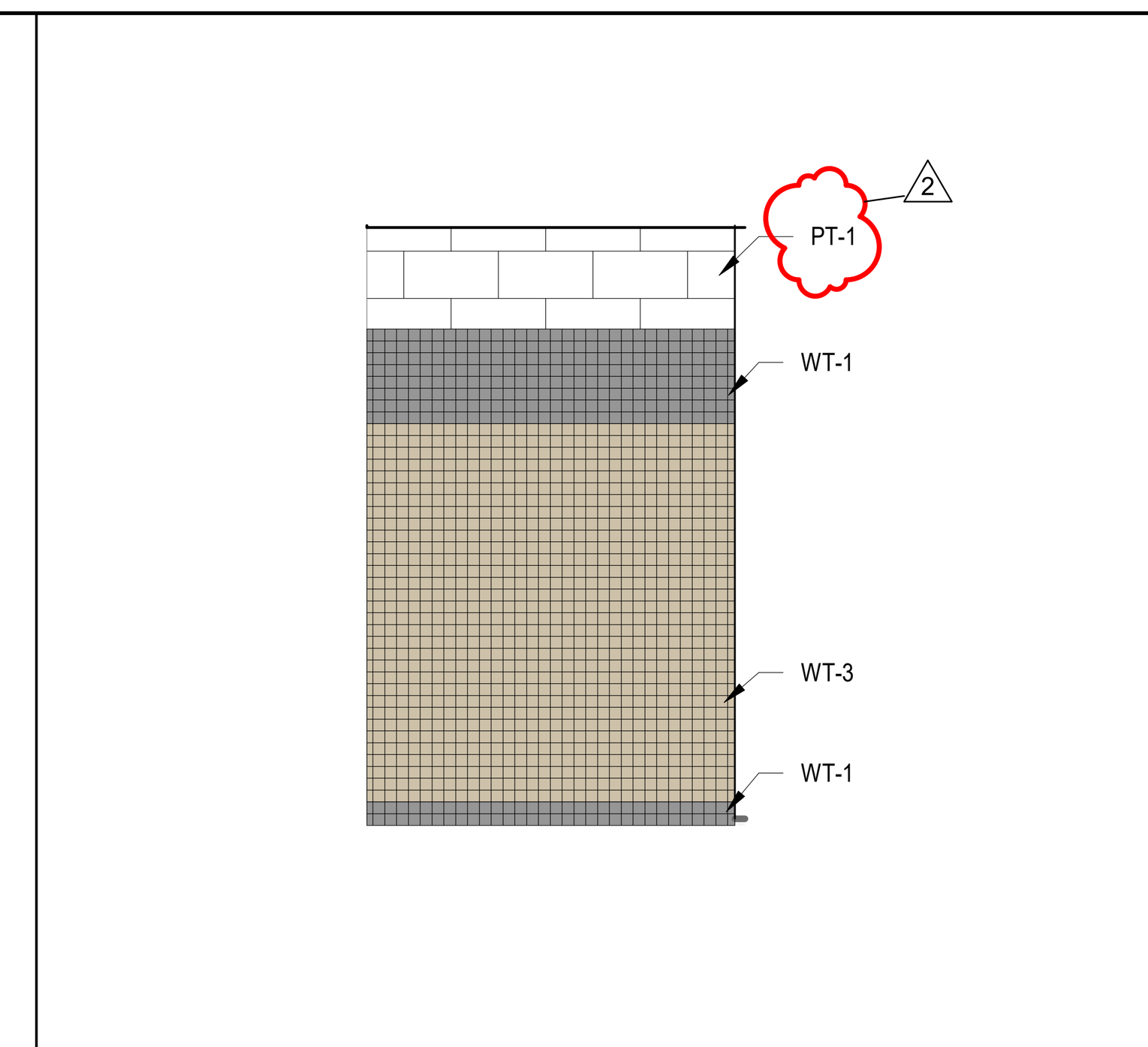
ENLARGED - RESTROOM ELEVATIONS
A-443
FOR BLUEBEAM LABELING OCR:



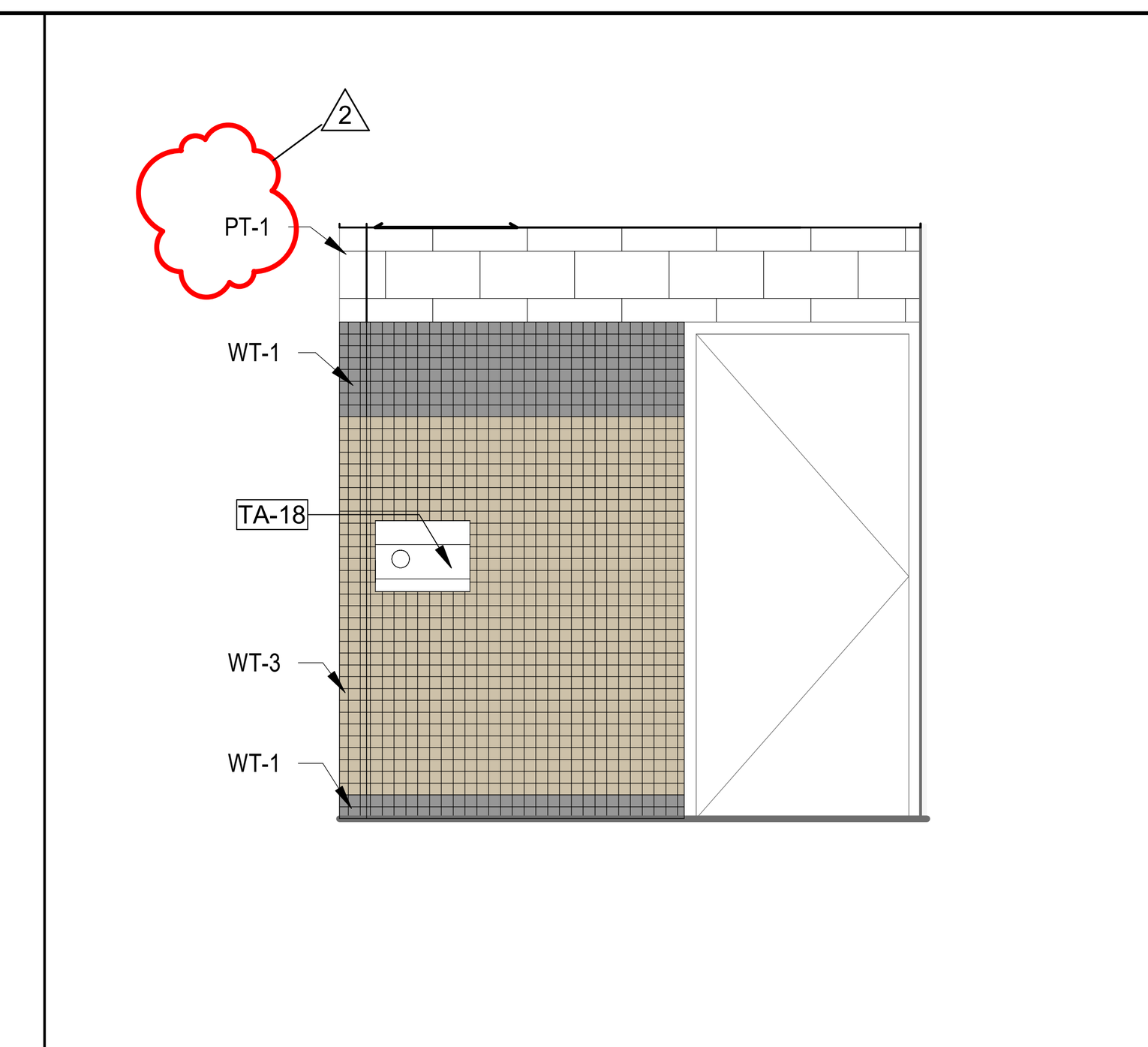
30 EXIST. RESTROOM 7128B WEST
3/8" = 1'-0"



29 EXIST. RESTROOM 7128B SOUTH
3/8" = 1'-0"



27 RESTROOM 1204 SOUTH 2
3/8" = 1'-0"



26 RESTROOM 1204 NORTH 2
3/8" = 1'-0"

TOILET ACCESSORIES

LABEL	DESCRIPTION	REMARKS
TA-1	SOAP DISPENSER	
TA-2	MIRROR	
TA-3	TOILET PAPER DISPENSER	
TA-4	PAPER TOWEL DISPENSER	
TA-5	GRAB BARS (AT TYPICAL ACCESSIBLE TOILETS)	
TA-6	SANITARY NAPKIN DISPENSER	
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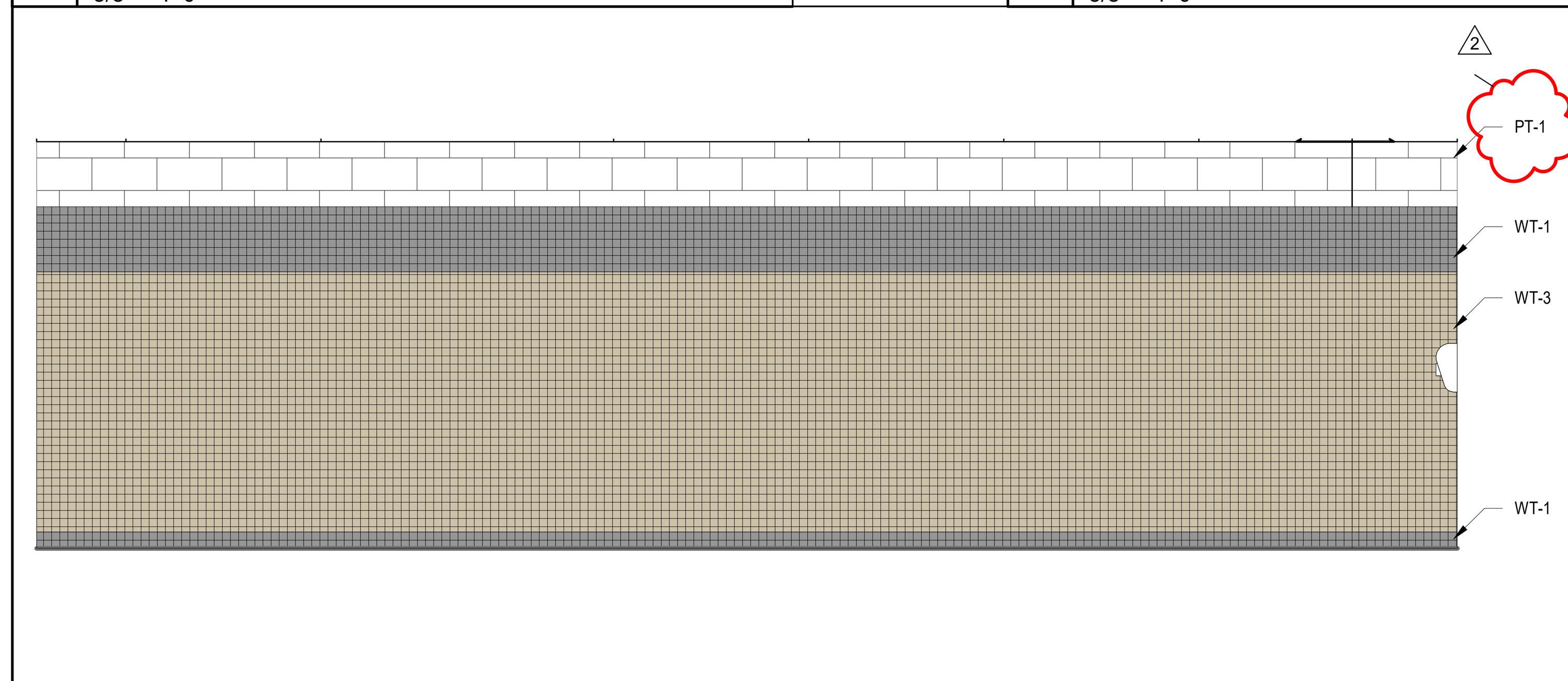
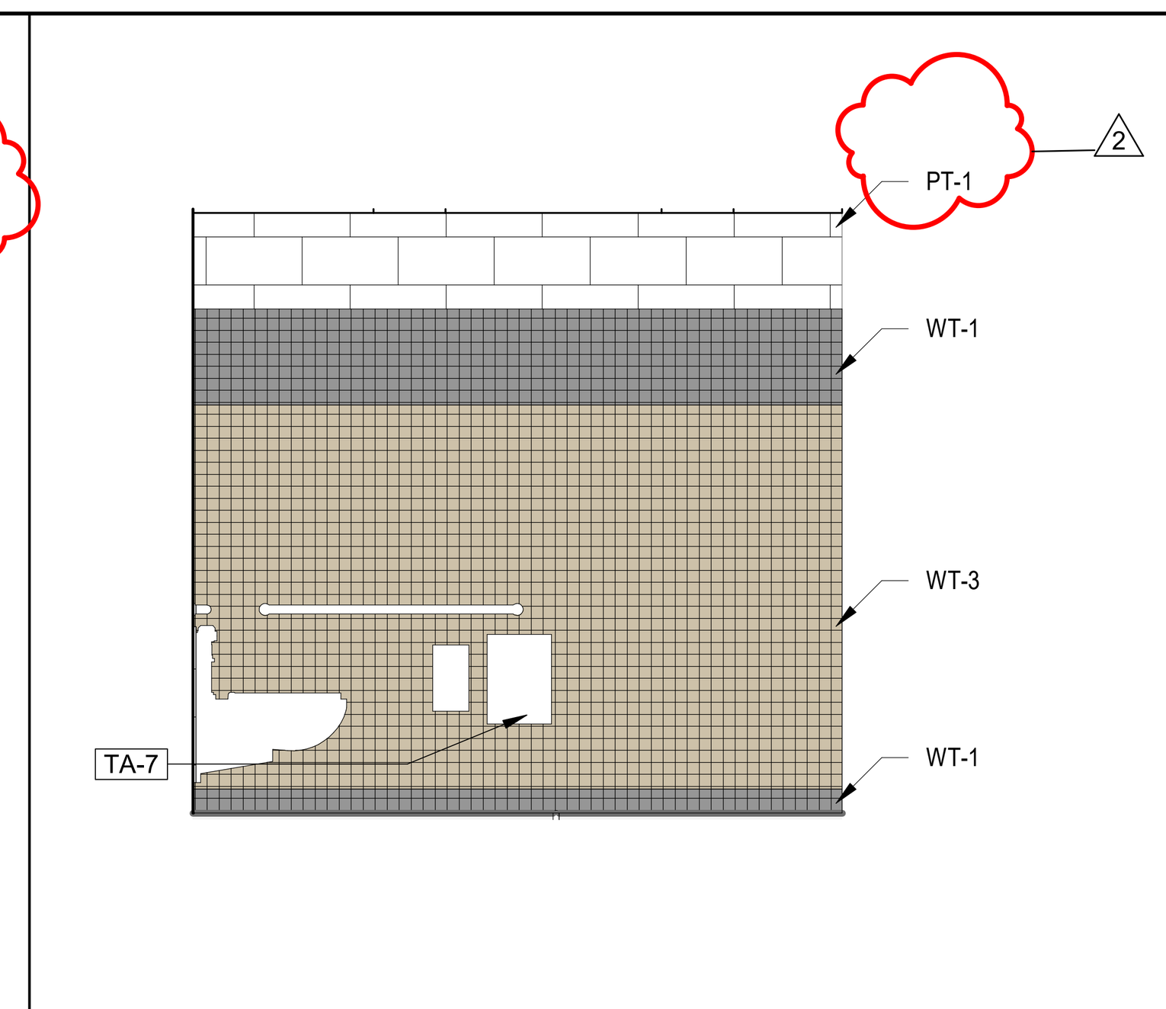
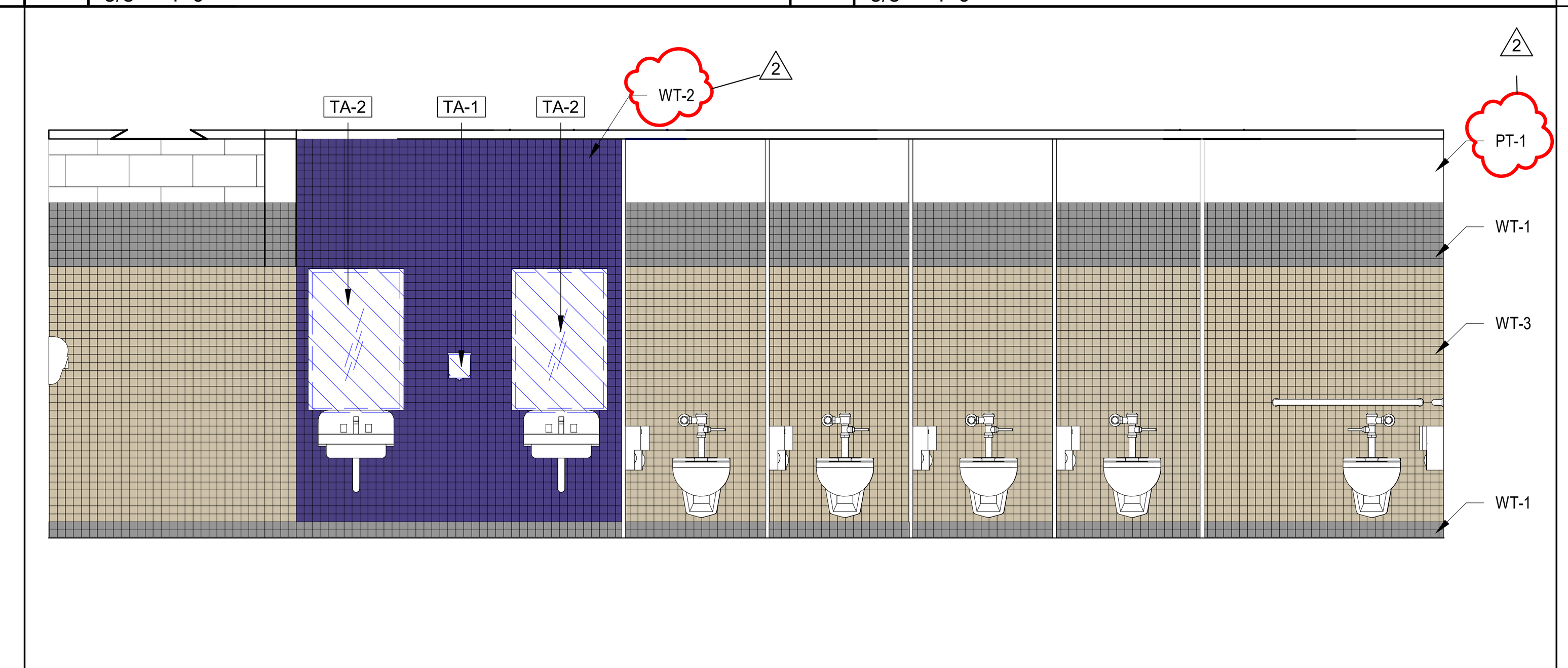
5. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER



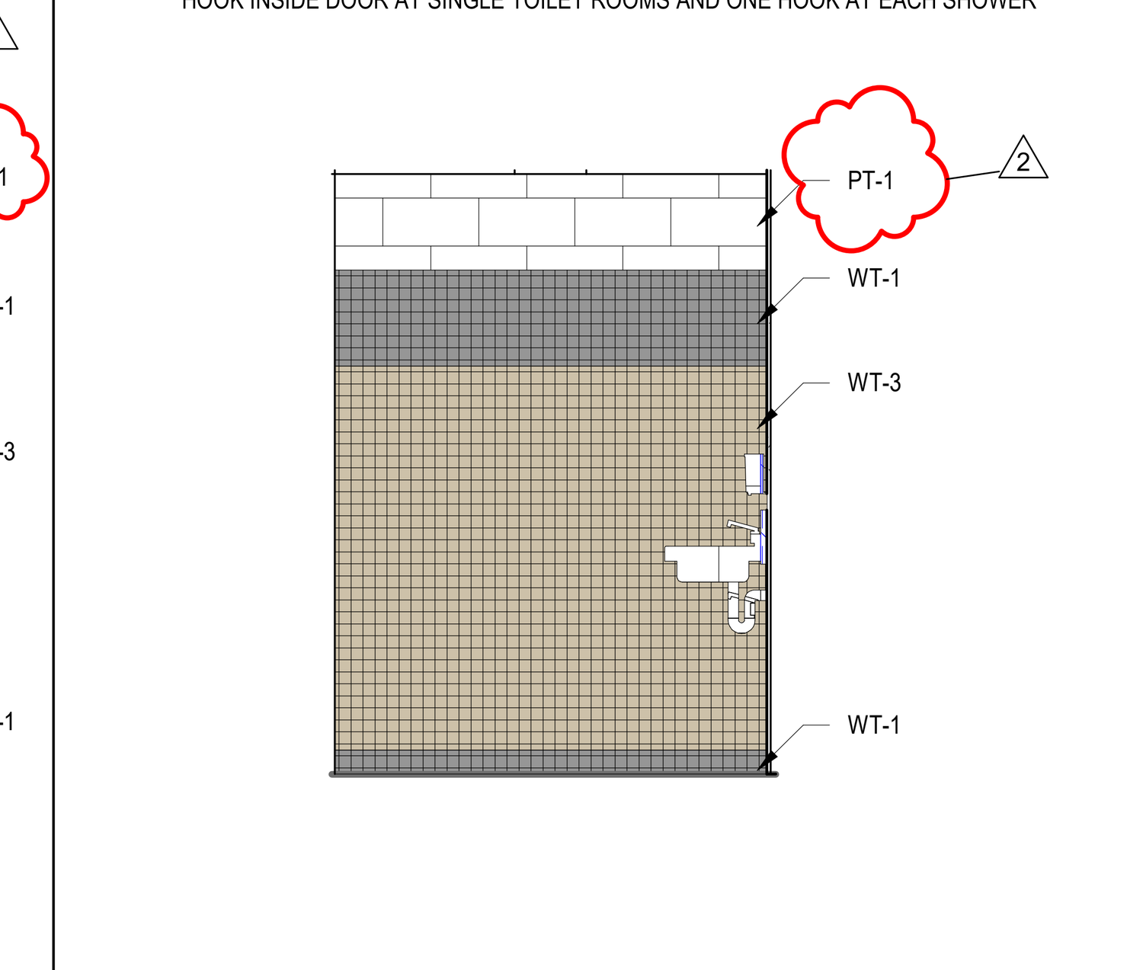
24 RESTROOM 1204 WEST
3/8" = 1'-0"



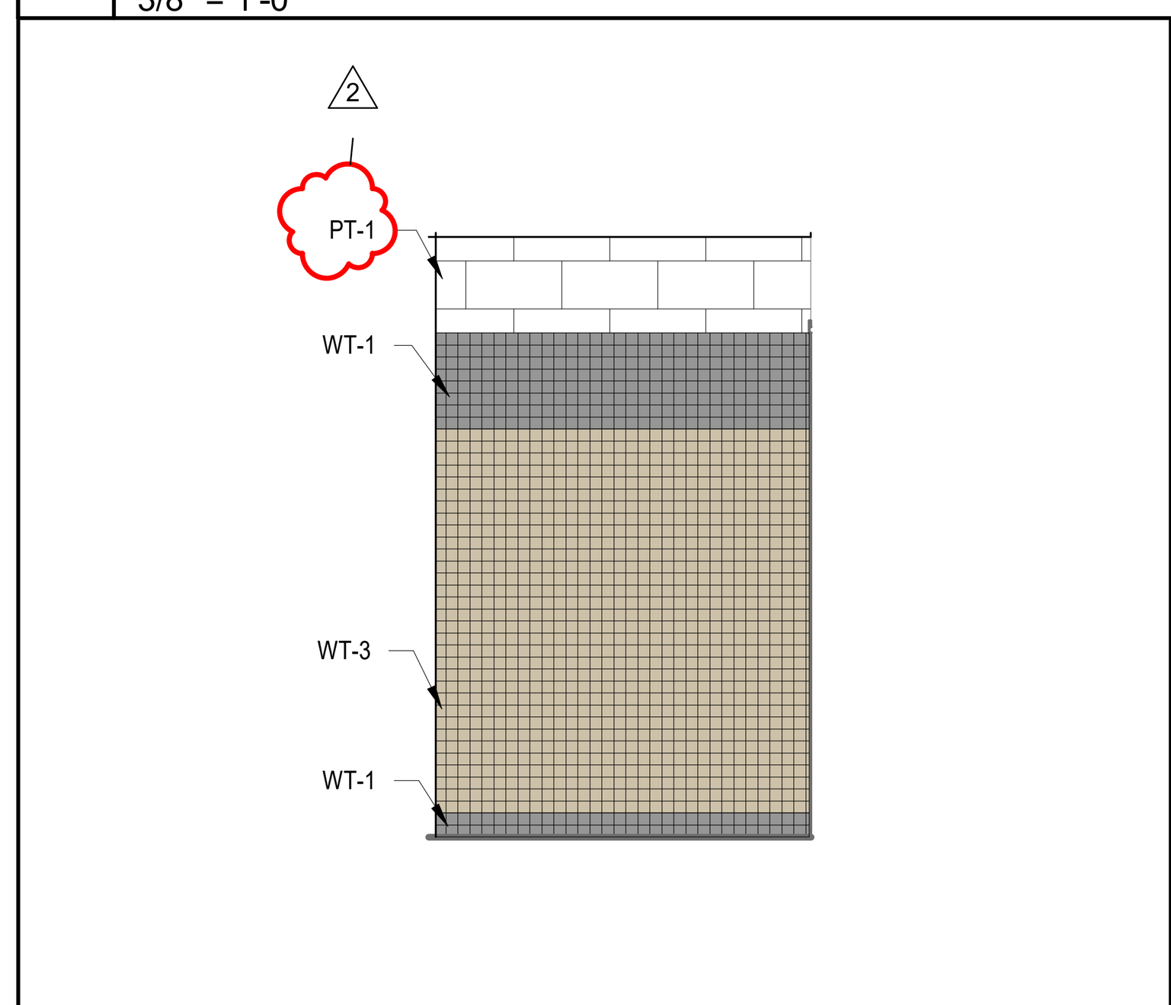
22 RESTROOM 1204 SOUTH
3/8" = 1'-0"



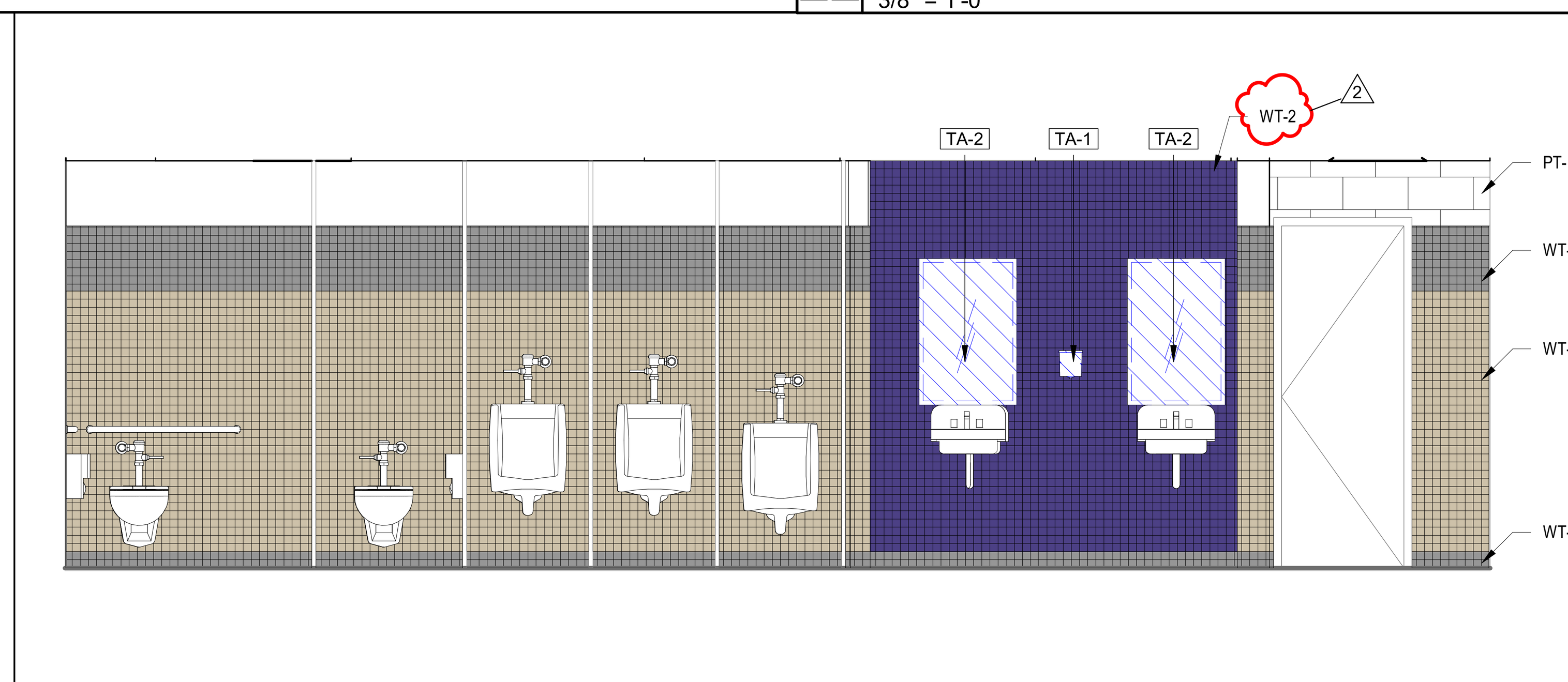
21 RESTROOM 1204 EAST
3/8" = 1'-0"



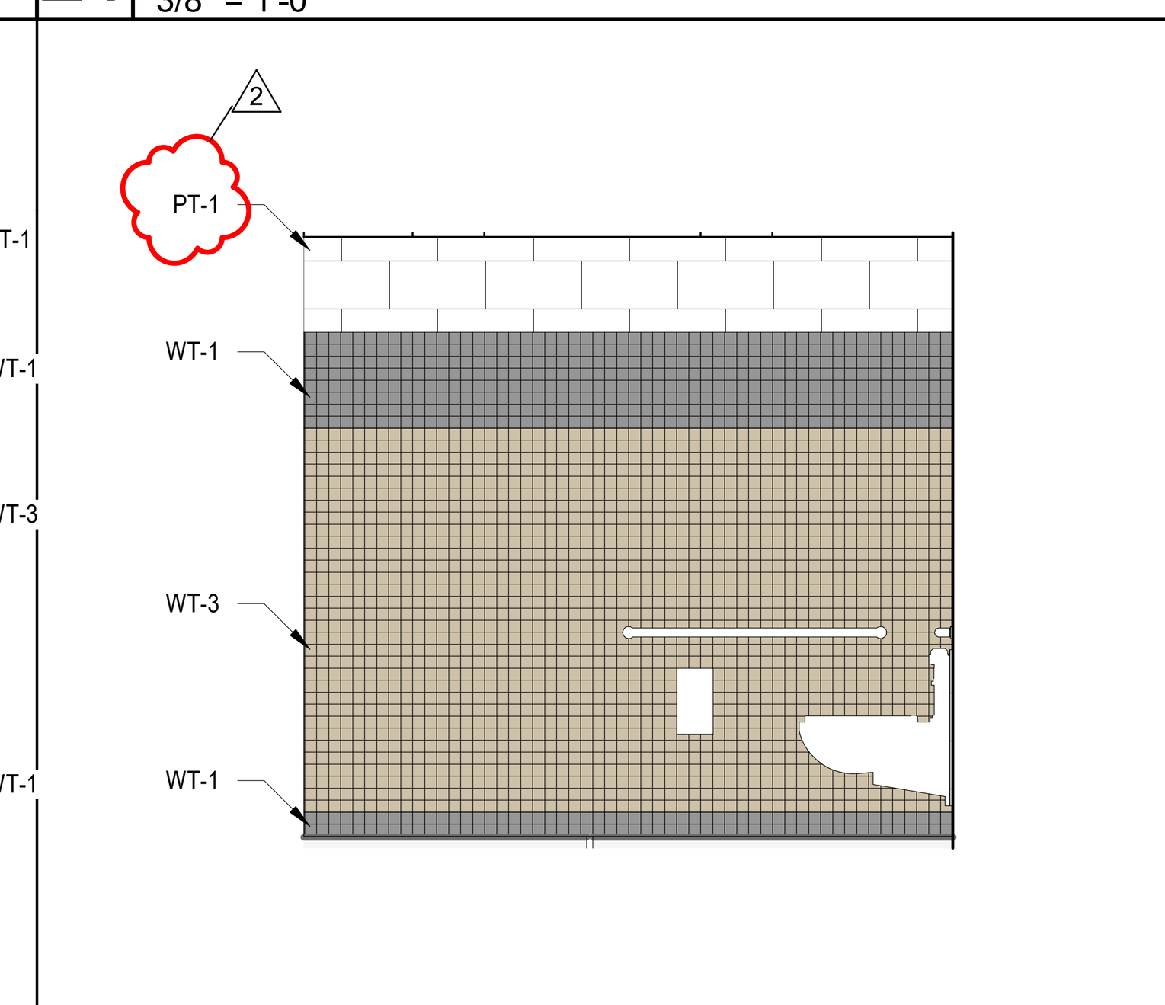
19 RESTROOM 1204 NORTH
3/8" = 1'-0"



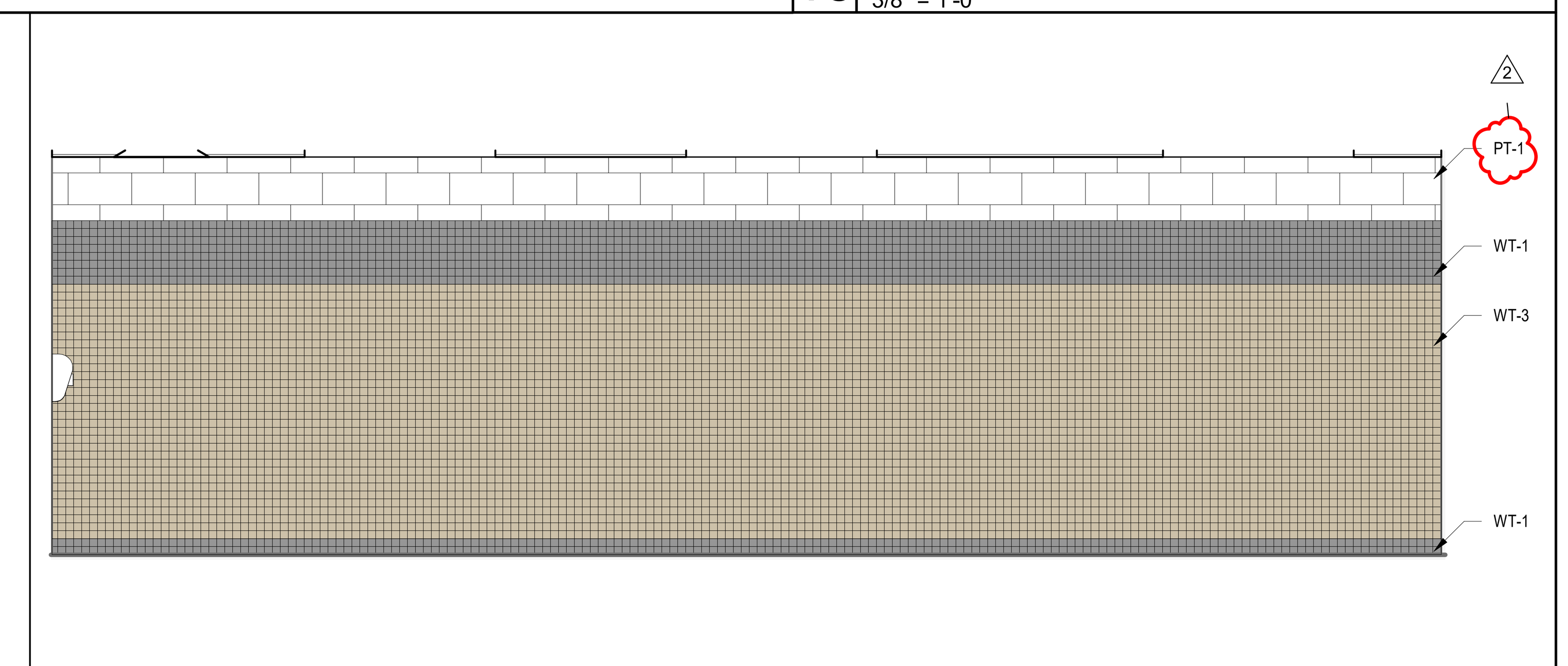
18 RESTROOM 1203 SOUTH 2
3/8" = 1'-0"



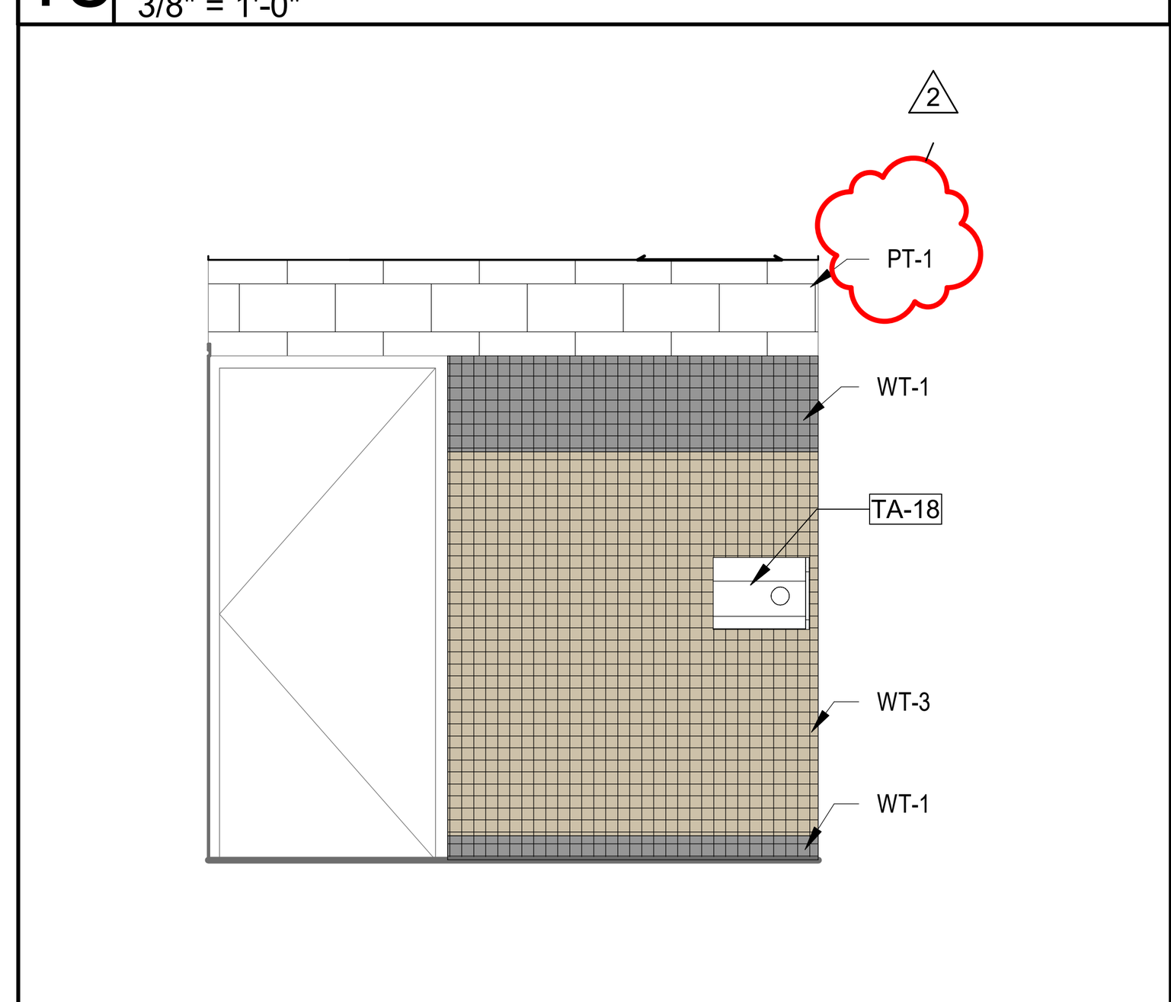
17 ELEVATION 1203 WEST
3/8" = 1'-0"



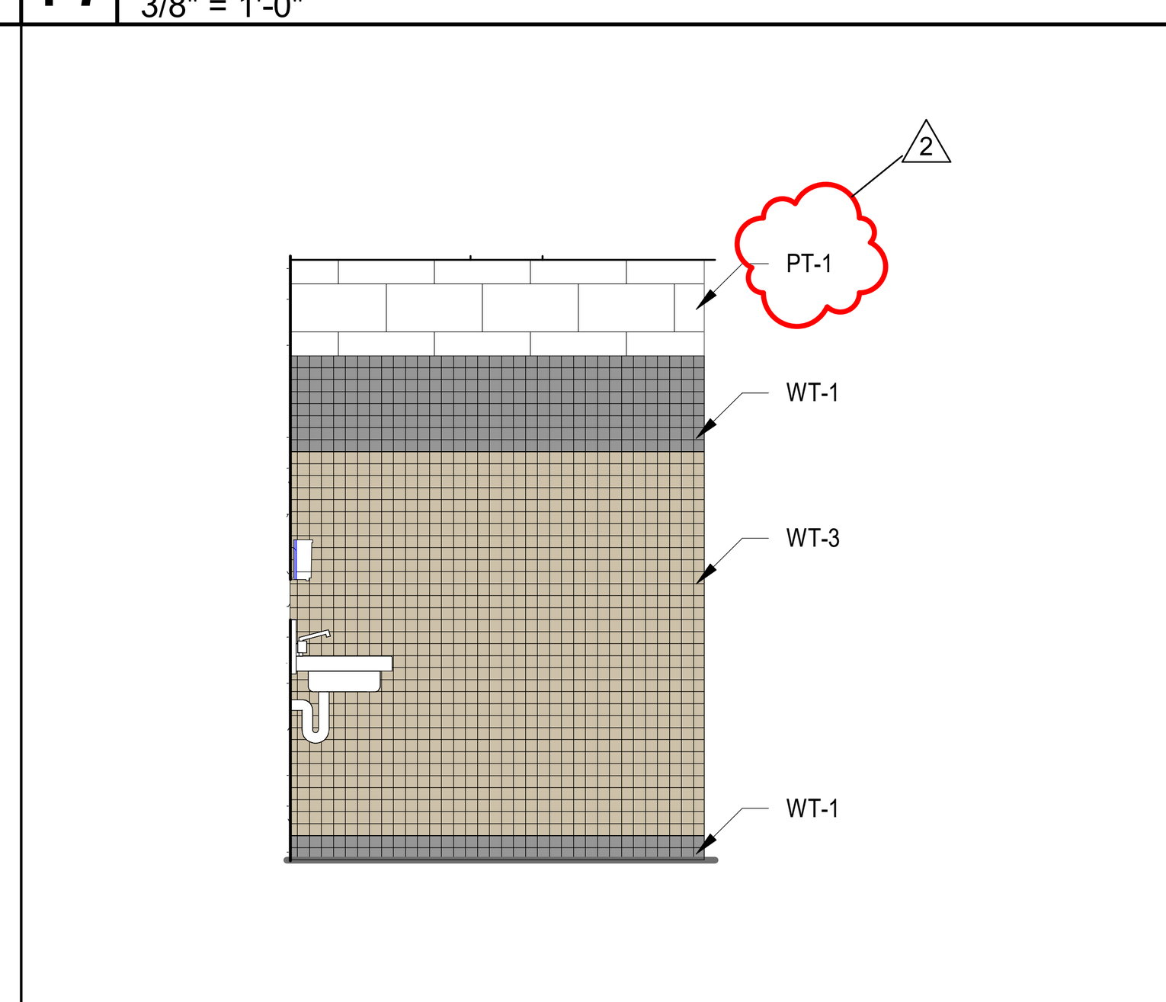
15 RESTROOM 1203 SOUTH
3/8" = 1'-0"



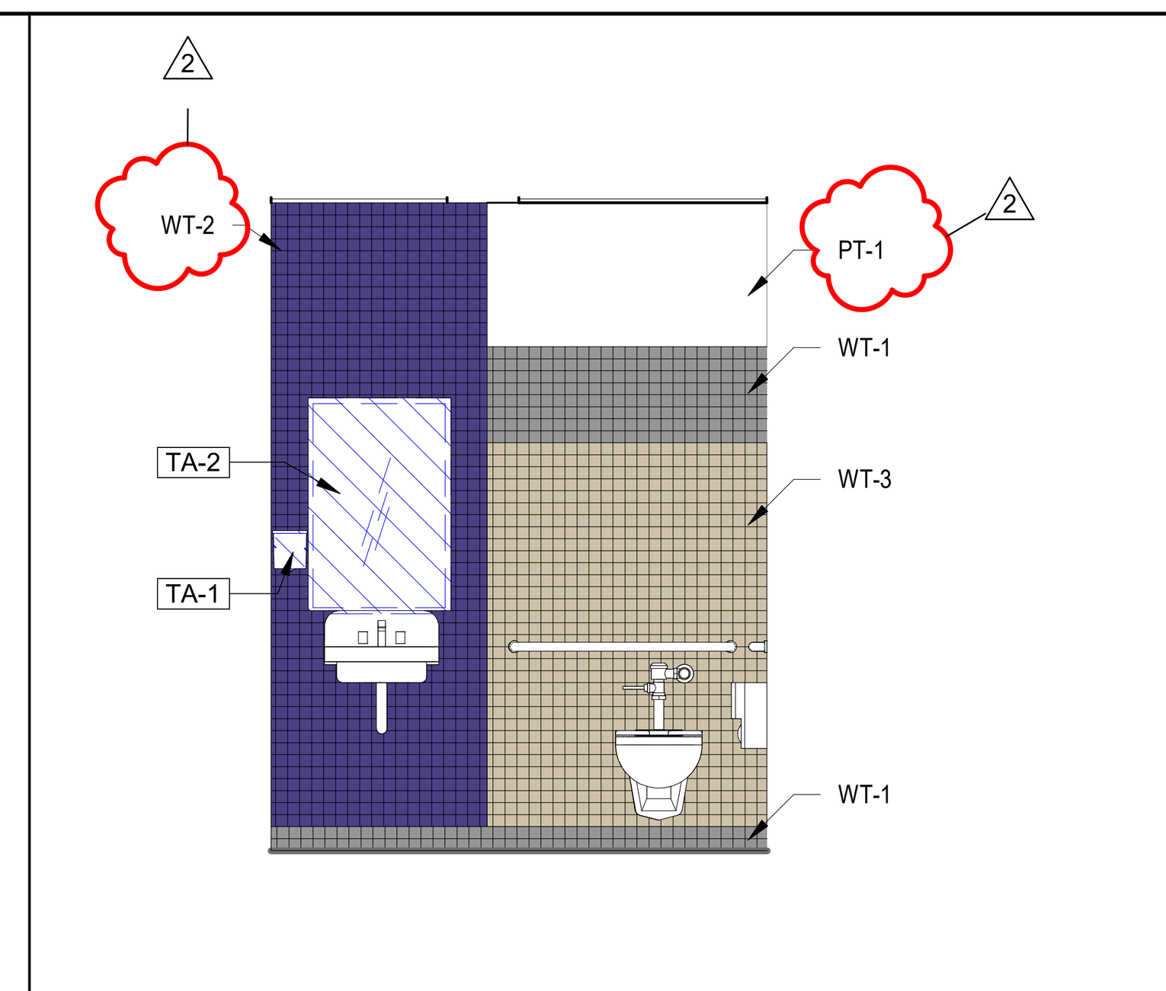
14 RESTROOM 1203 EAST
3/8" = 1'-0"



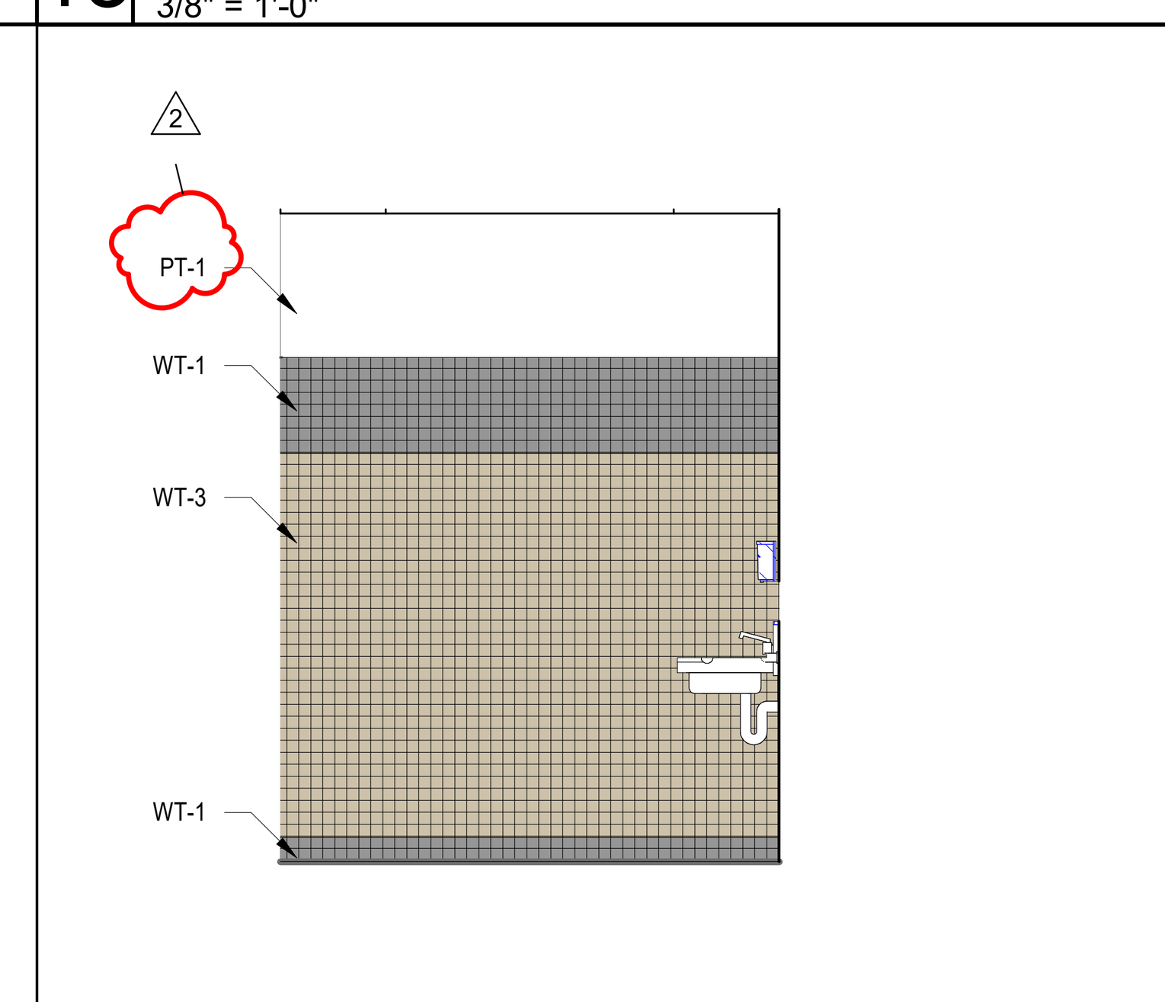
12 RESTROOM 1203 NORTH 2
3/8" = 1'-0"



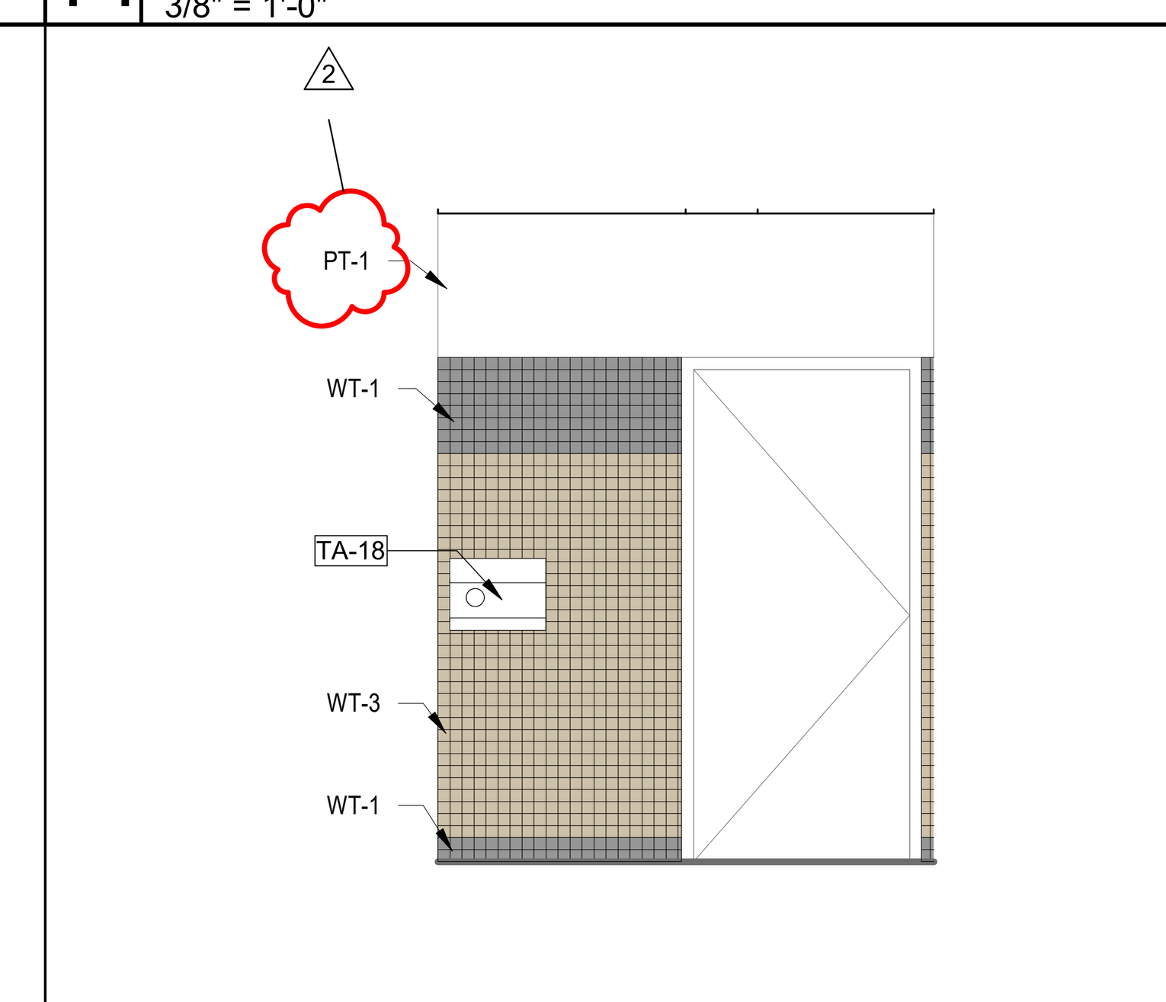
11 RR1203 - NORTH
3/8" = 1'-0"



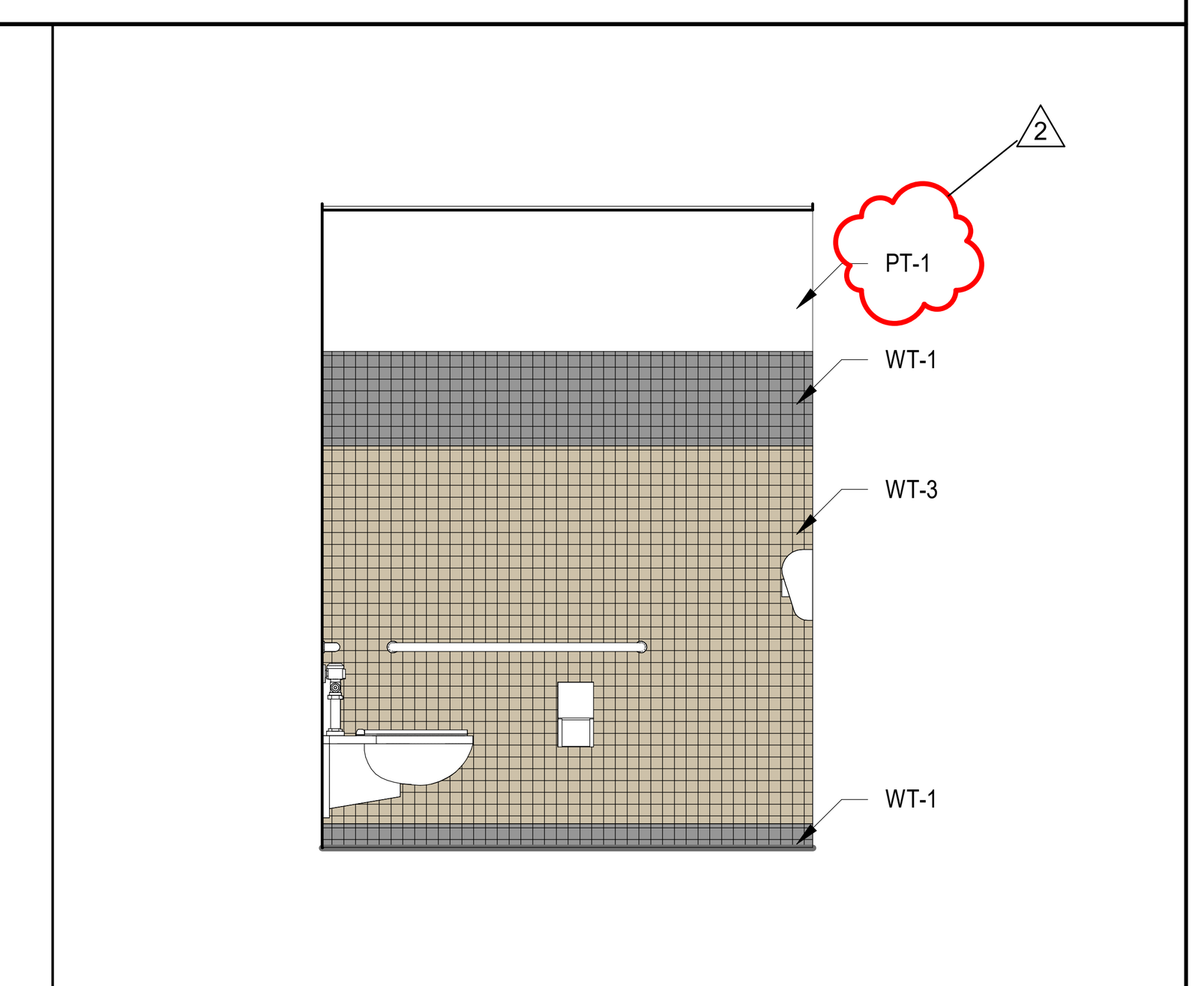
10 RESTROOM 3117B - WEST
3/8" = 1'-0"



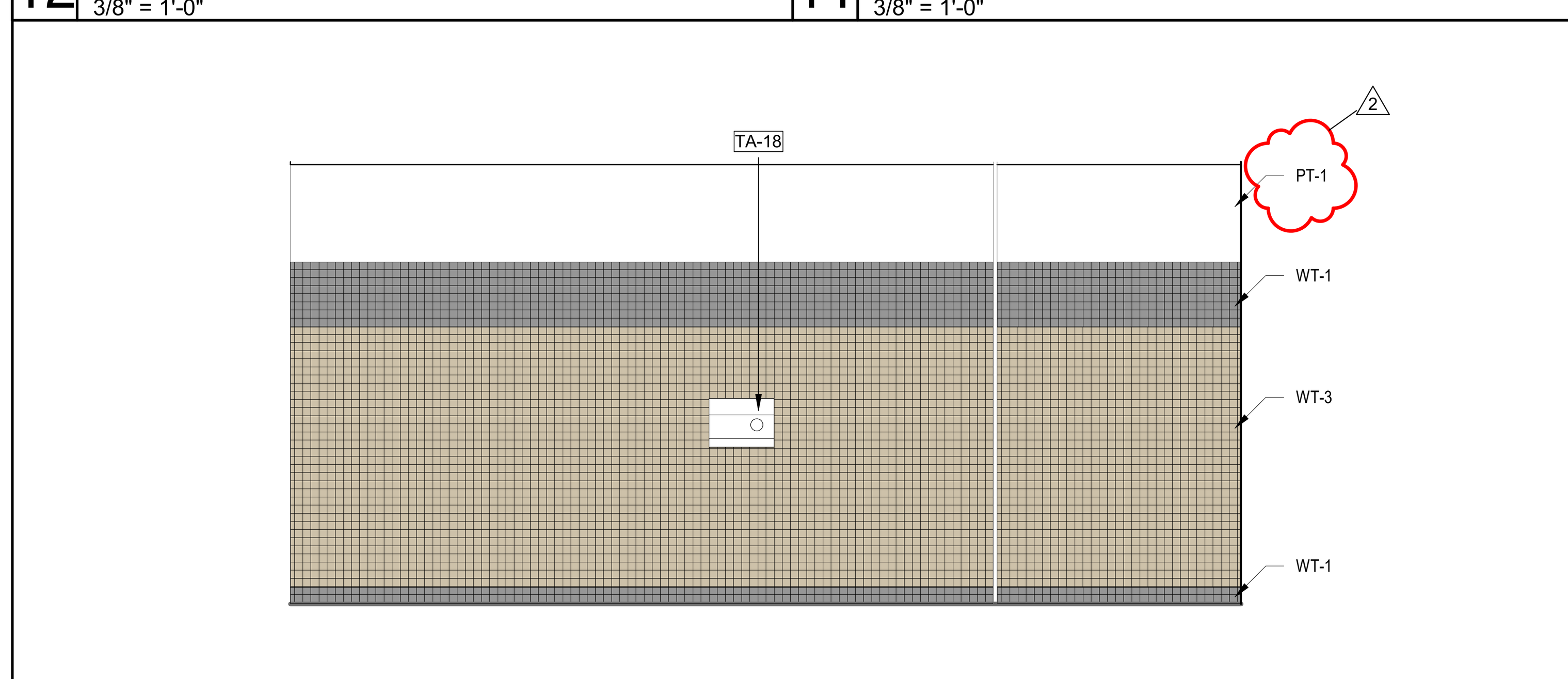
09 RESTROOM 3117B - SOUTH
3/8" = 1'-0"



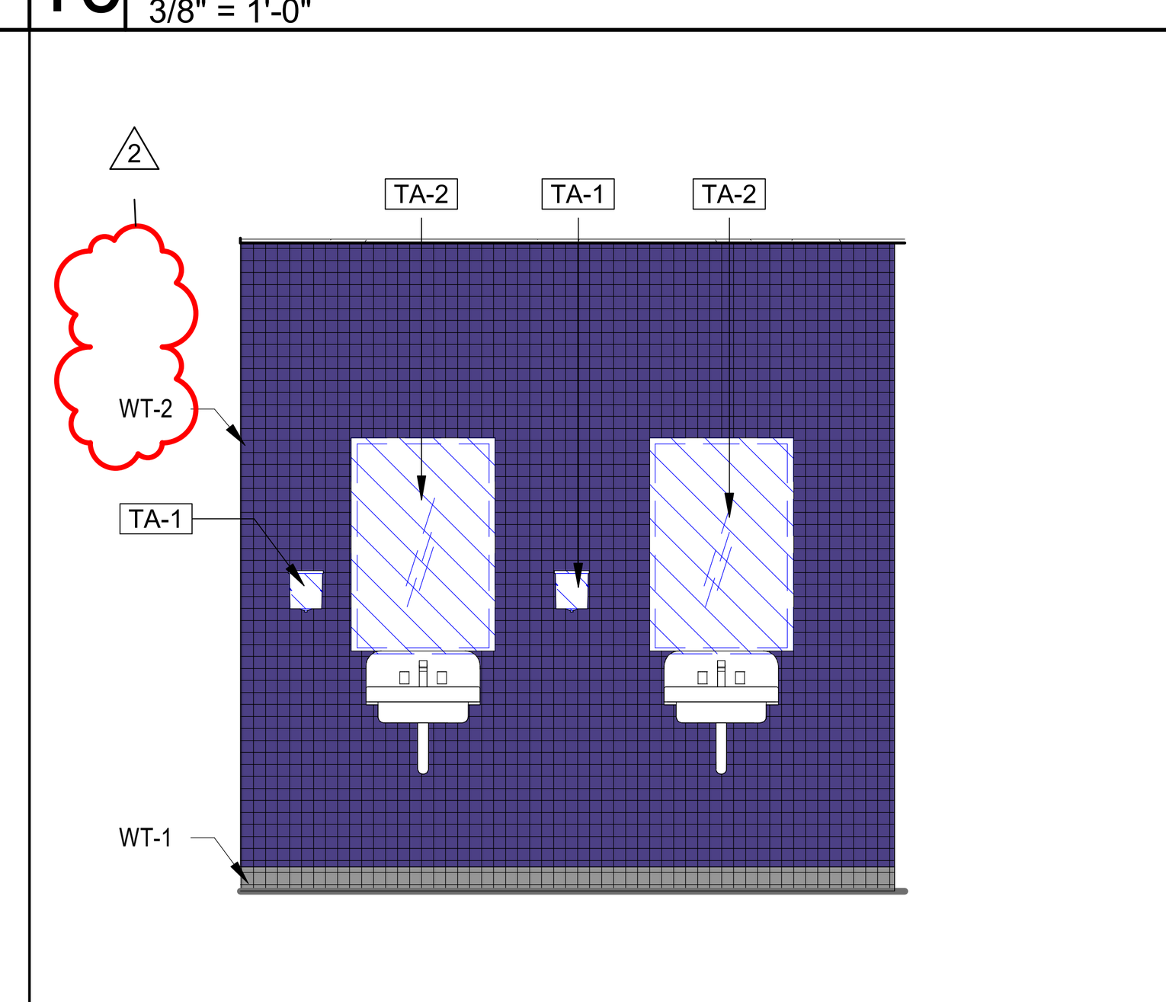
08 RESTROOM 3177B - EAST
3/8" = 1'-0"



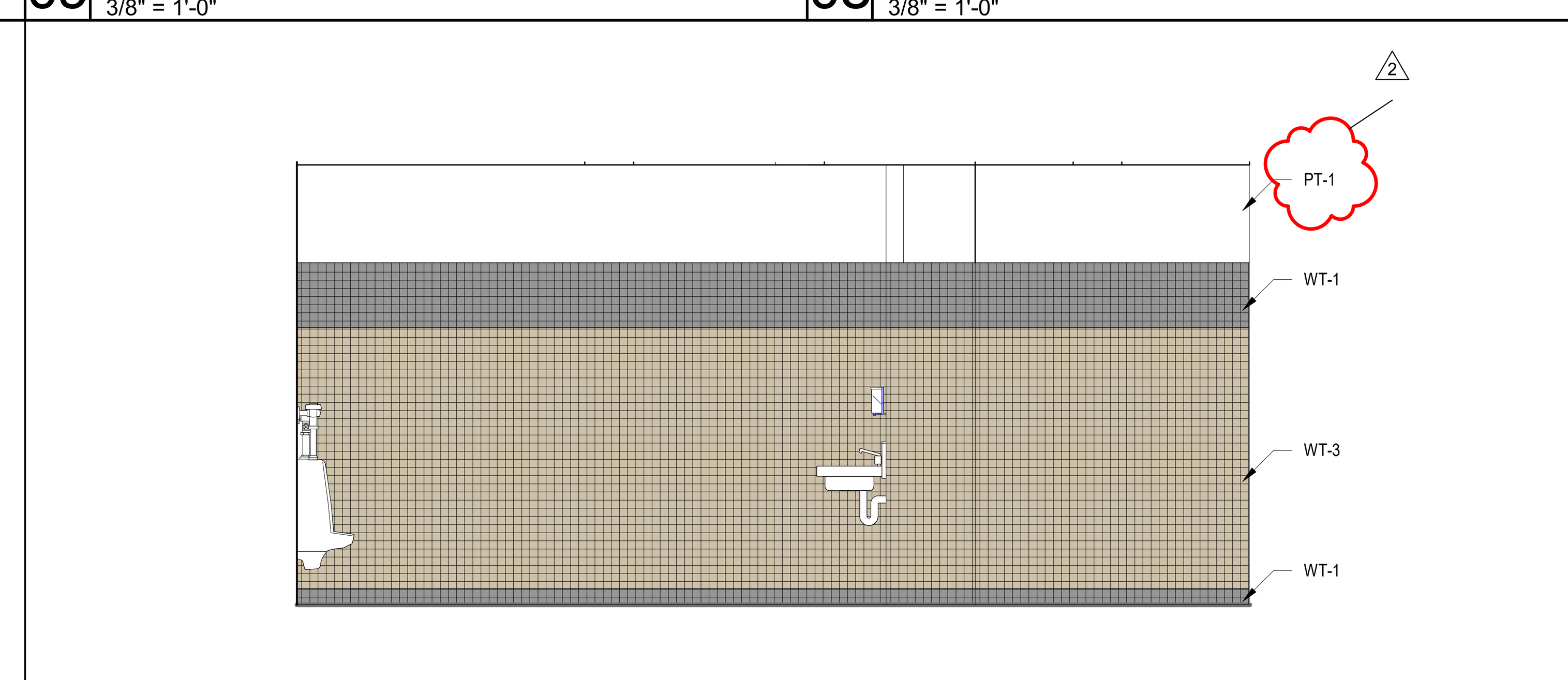
07 RESTROOM 3177B - NORTH
3/8" = 1'-0"



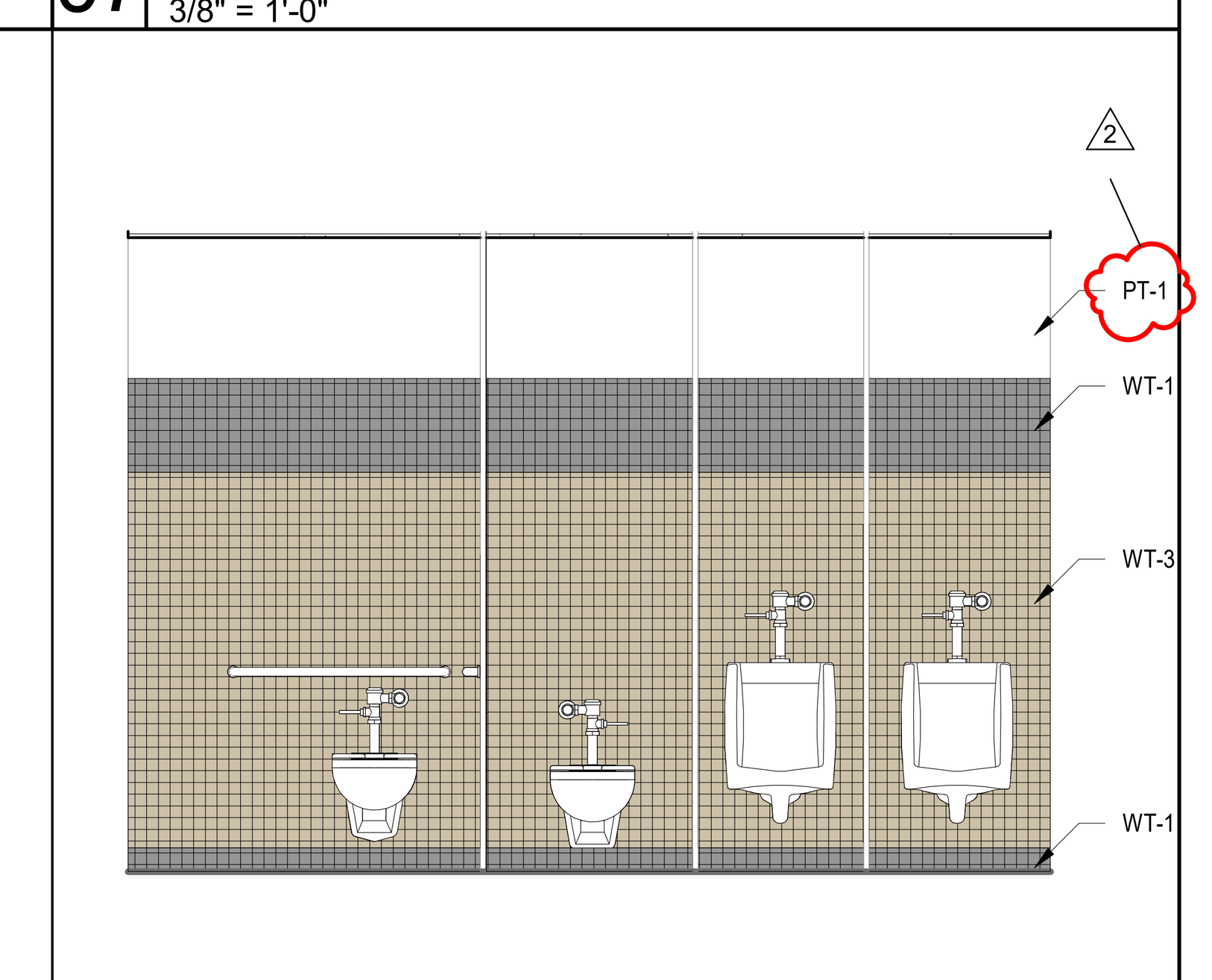
06 RESTROOM 3112 WEST
3/8" = 1'-0"



04 RESTROOM 3112 - SOUTH
3/8" = 1'-0"



03 RESTROOM 3112 - EAST
3/8" = 1'-0"



01 RESTROOM 3112 - NORTH
3/8" = 1'-0"

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: F-1608

CIVIL
DIG ENGINEERS
T 713-965-0608

BUILDING ENVELOPE
BEAM PROFESSIONALS
T 713-940-3201

STRUCTURAL
KUBALA ENGINEERS
T 832-737-2639

MEPT
LEAF ENGINEERS
T 713-940-3300

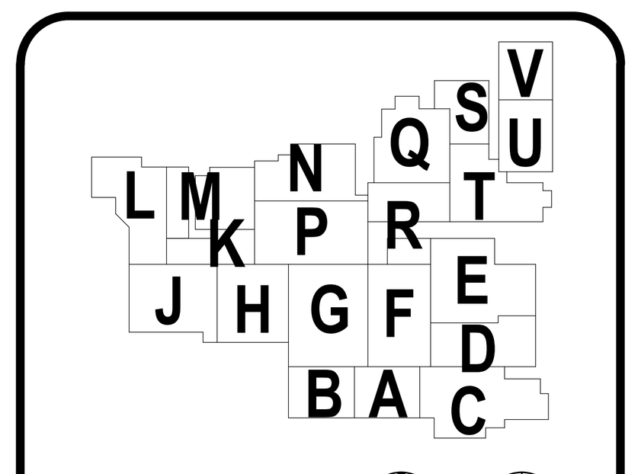
LANDSCAPE
GREENSCAPE ASSOCIATES
T 713-940-3300

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338

ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT · HUMBLE, TEXAS · HARRIS COUNTY



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT · GREGORY A. PRINCE · 27199 · STATE OF TEXAS

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

ENLARGED - RESTROOM ELEVATIONS

A-443

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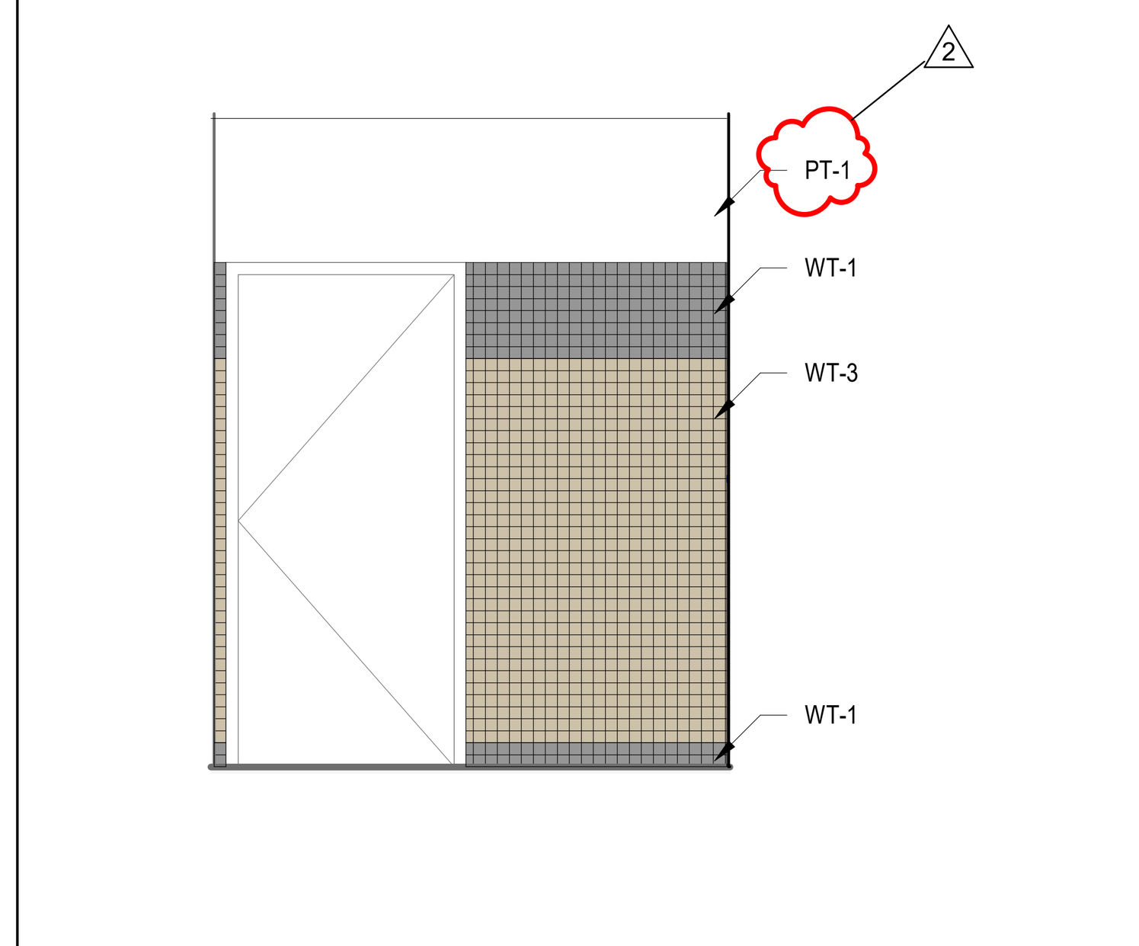
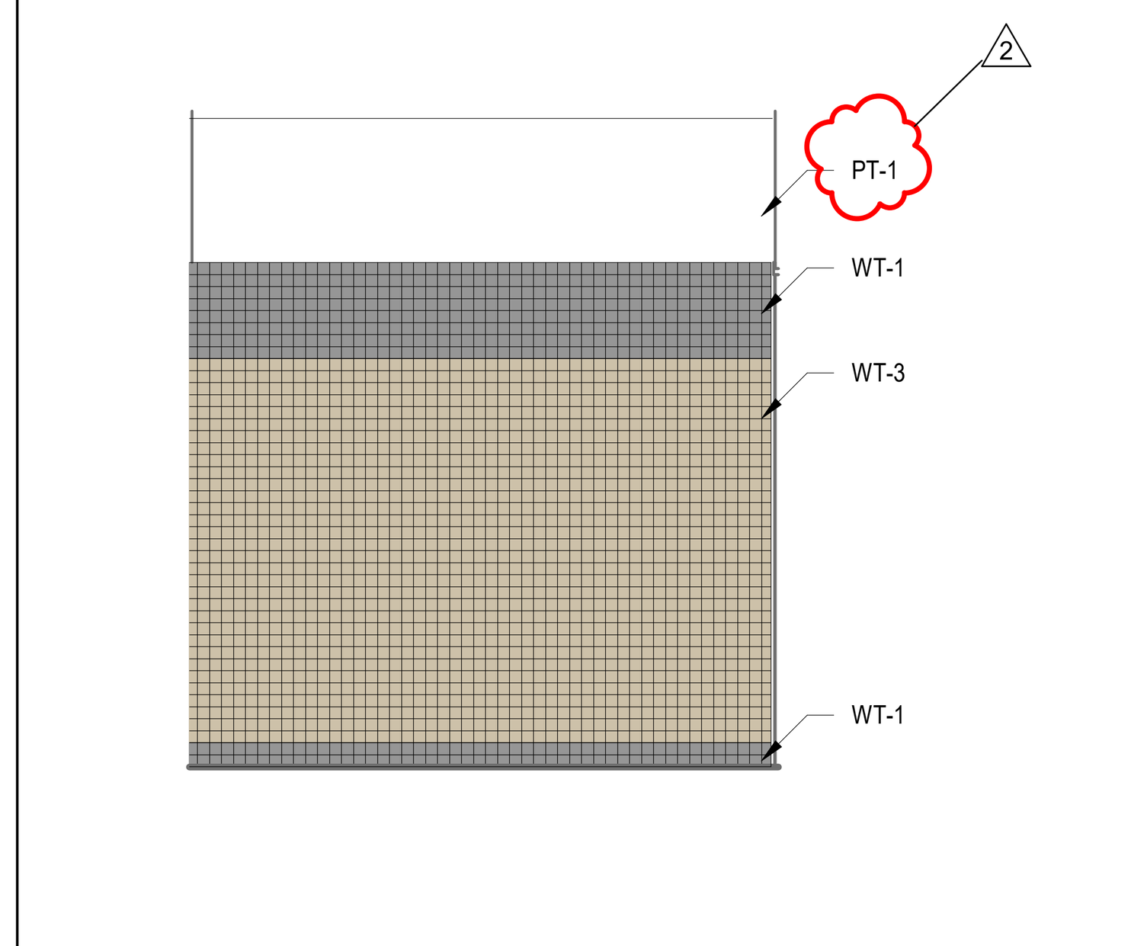
CHECKED BY:
Checker
DRAWN BY:
Author
Plot Stamp:
1/15/2025 2:24:31 PM

ENLARGED - RESTROOM ELEVATIONS
A-444
FOR BLUEBEAM LABELING/OCR:



29 EXIST. RESTROOM 7123 WEST
3/8" = 1'-0"



28 EXIST. RESTROOM 7123 SOUTH
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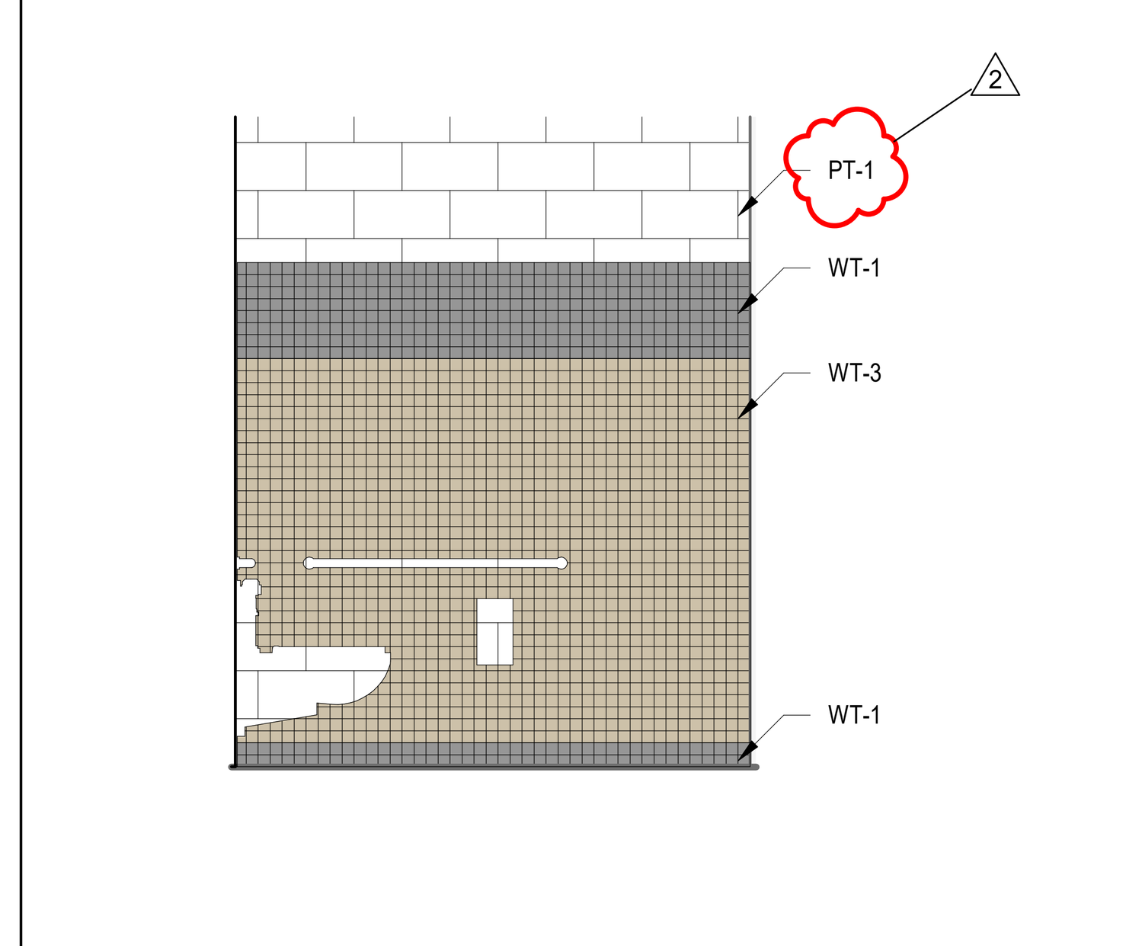
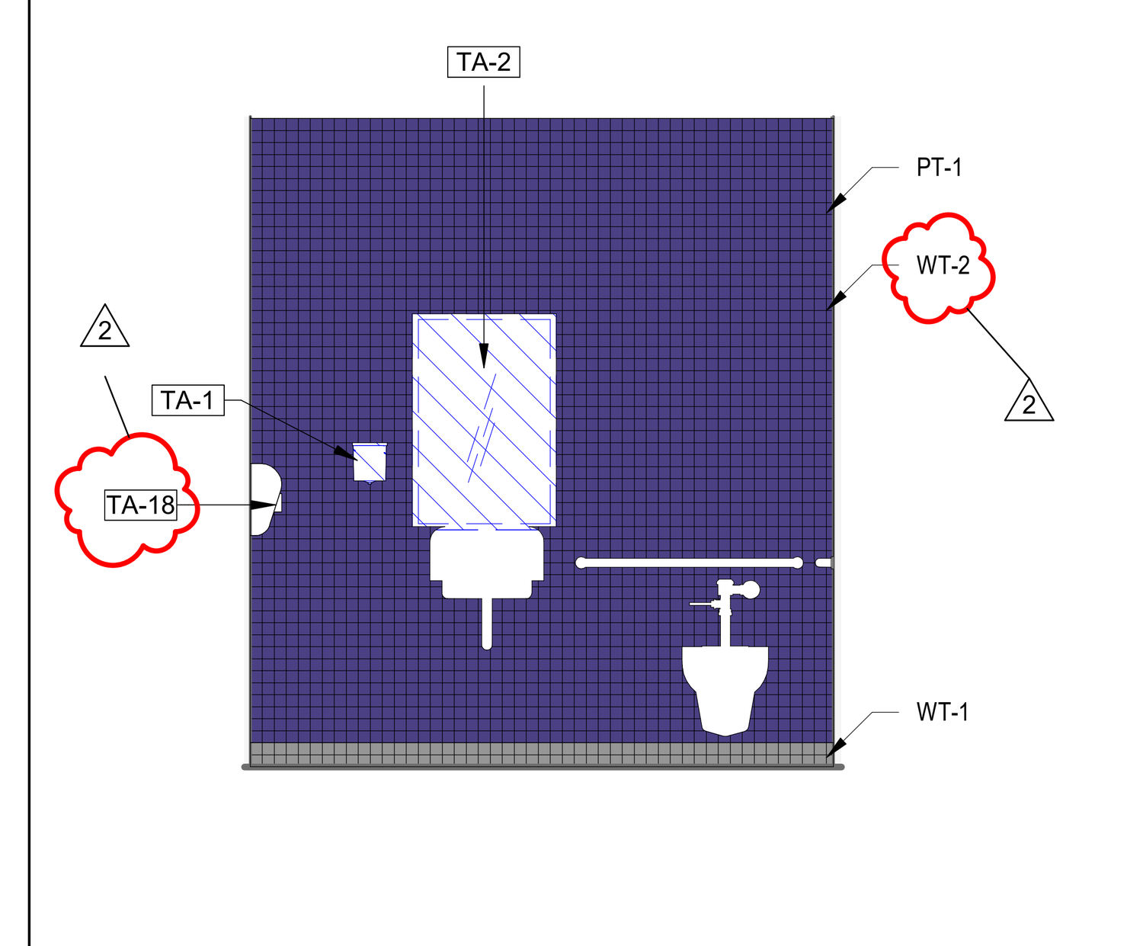


27 EXIST. RESTROOM 7123 EAST
3/8" = 1'-0"



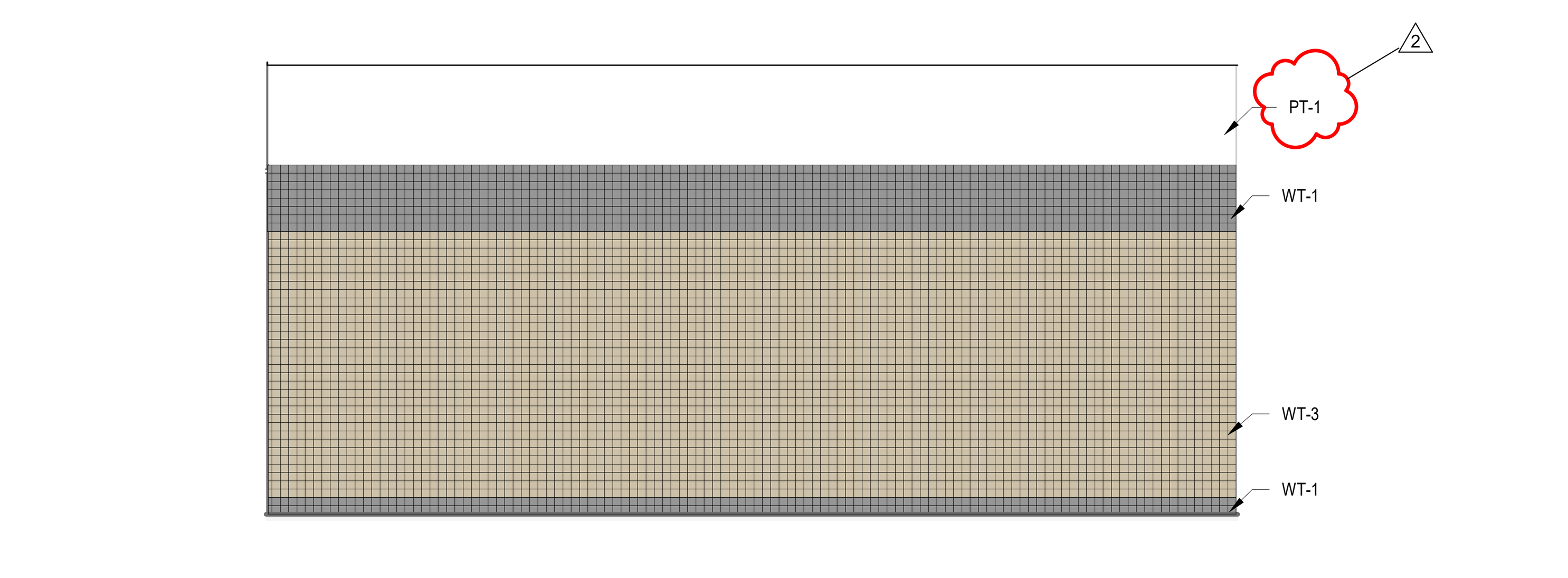
26 EXIST. RESTROOM 7123 NORTH
3/8" = 1'-0"

TOILET ACCESSORIES

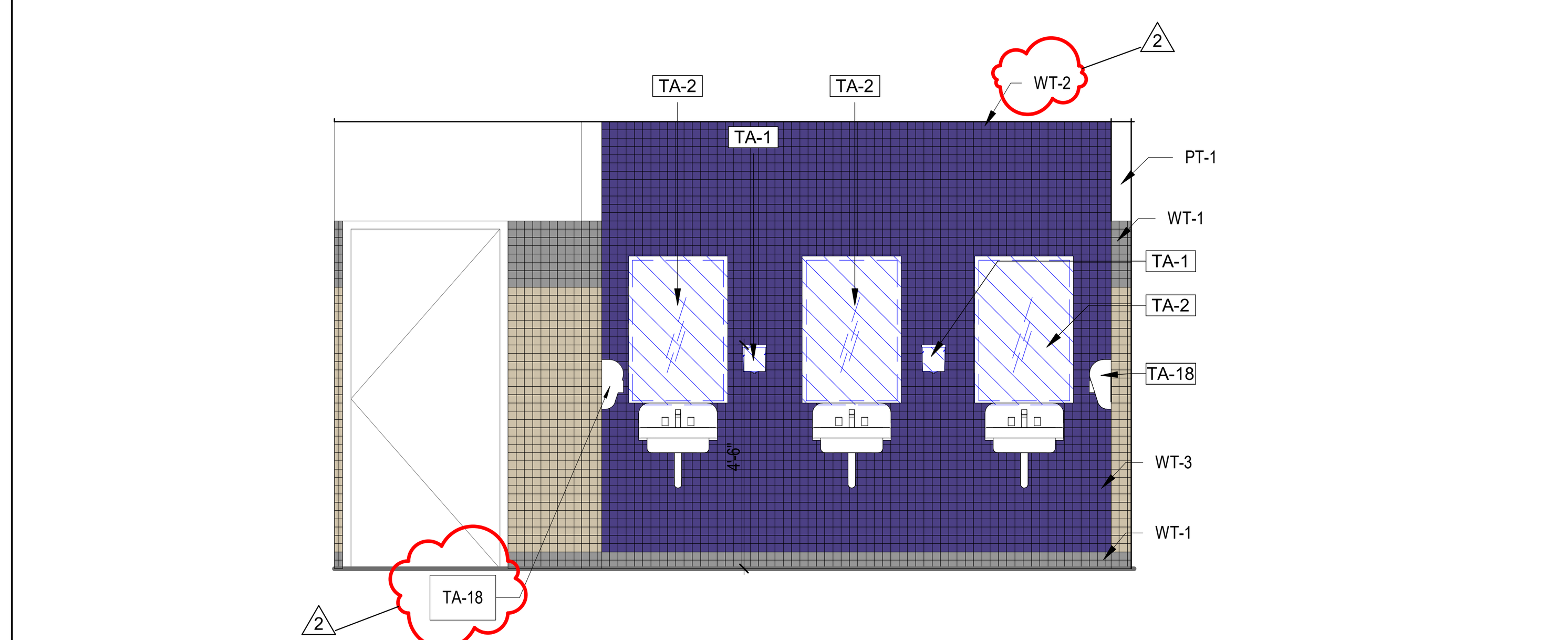
LABEL	DESCRIPTION	REMARKS
TA-1	SOAP DISPENSER	
TA-2	MIRROR	
TA-3	TOILET PAPER DISPENSER	
TA-4	PAPER TOWEL DISPENSER	
TA-5	GRAB BARS (AT TYPICAL ACCESSIBLE TOILETS)	
TA-6	SANITARY NAPKIN DISPENSER	
TA-7	SANITARY NAPKIN DISPOSAL	
TA-8	MOP AND BROOM HOLDER	
TA-9	GRAB BARS (AT ACCESSIBLE SHOWERS)	
TA-10	FOLDING SHOWER BENCH	
TA-11	CLOTHES HOOK	NOTE 5
TA-12	SHOWER CURTAIN, ROD AND HOOKS	
TA-13	NOT USED	
TA-14	NOT USED	
TA-15	NOT USED	
TA-16	NOT USED	
TA-17	NOT USED	
TA-18	ELECTRIC HAND DRYER	
TA-19	SEAT COVER DISPENSER	
TA-20	SPECIMEN PASSTHRU	

NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED U.N.O.
ALL TOILET AND URINAL PARTITIONS TO BE SUPPORTED AT FLOOR AND AT CEILINGS.

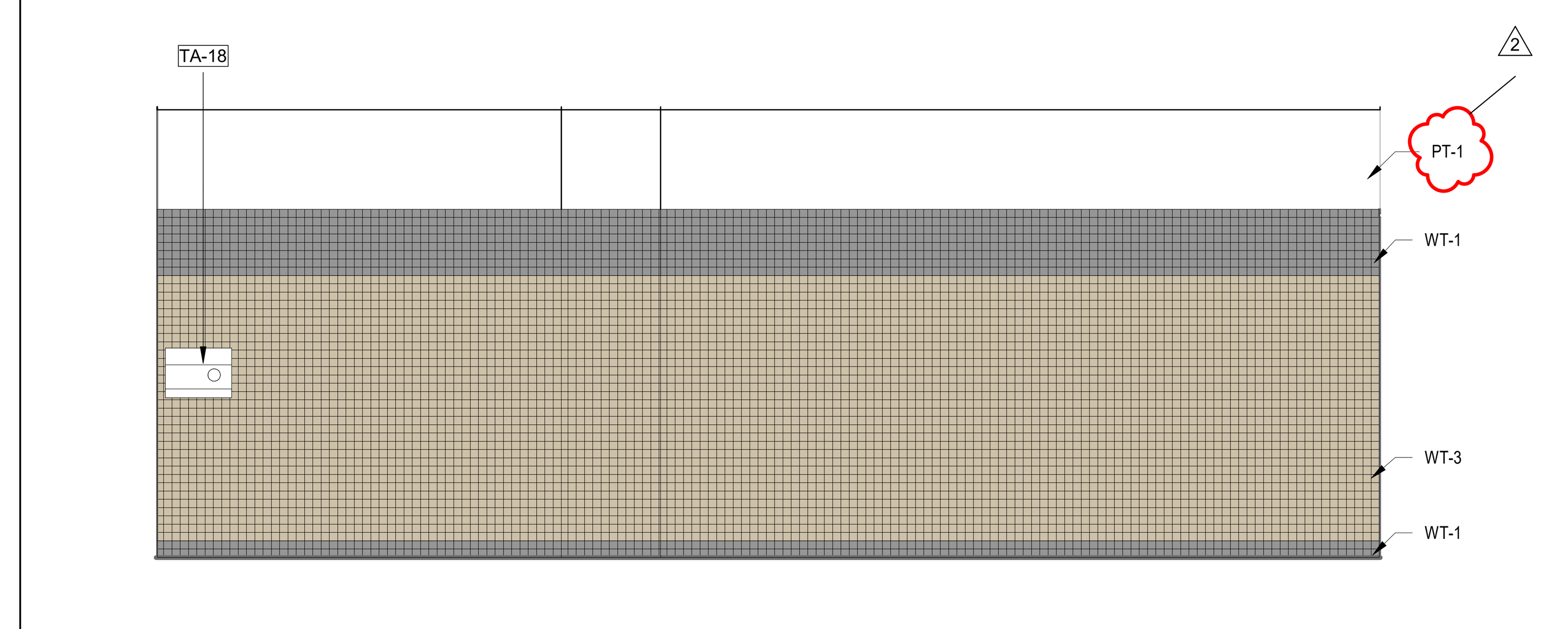
1. COORDINATE FINAL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE, VERIFY ALL PATTERNS WITH ARCHITECT
4. ALIGN MIRROR ON CENTER OF LAVATORY
5. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER



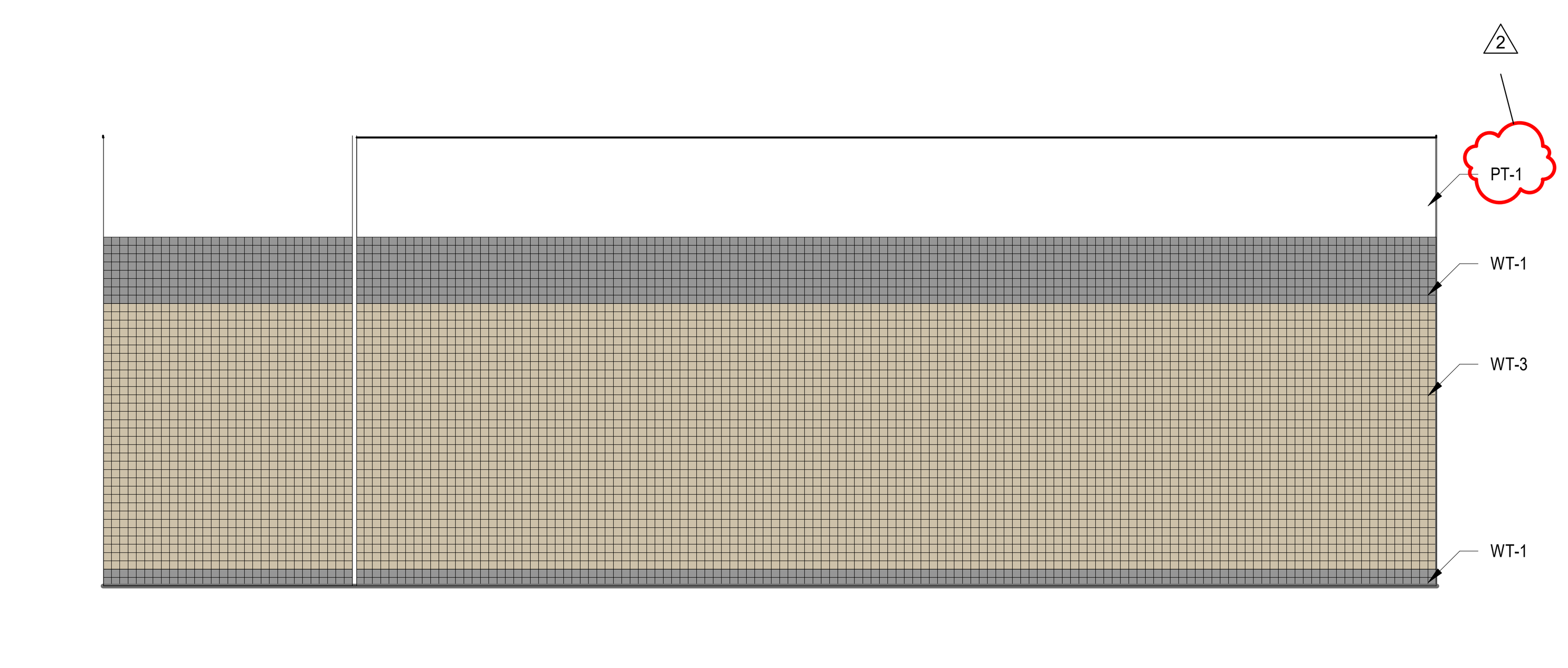
24 RESTROM 2113 WEST 2
3/8" = 1'-0"



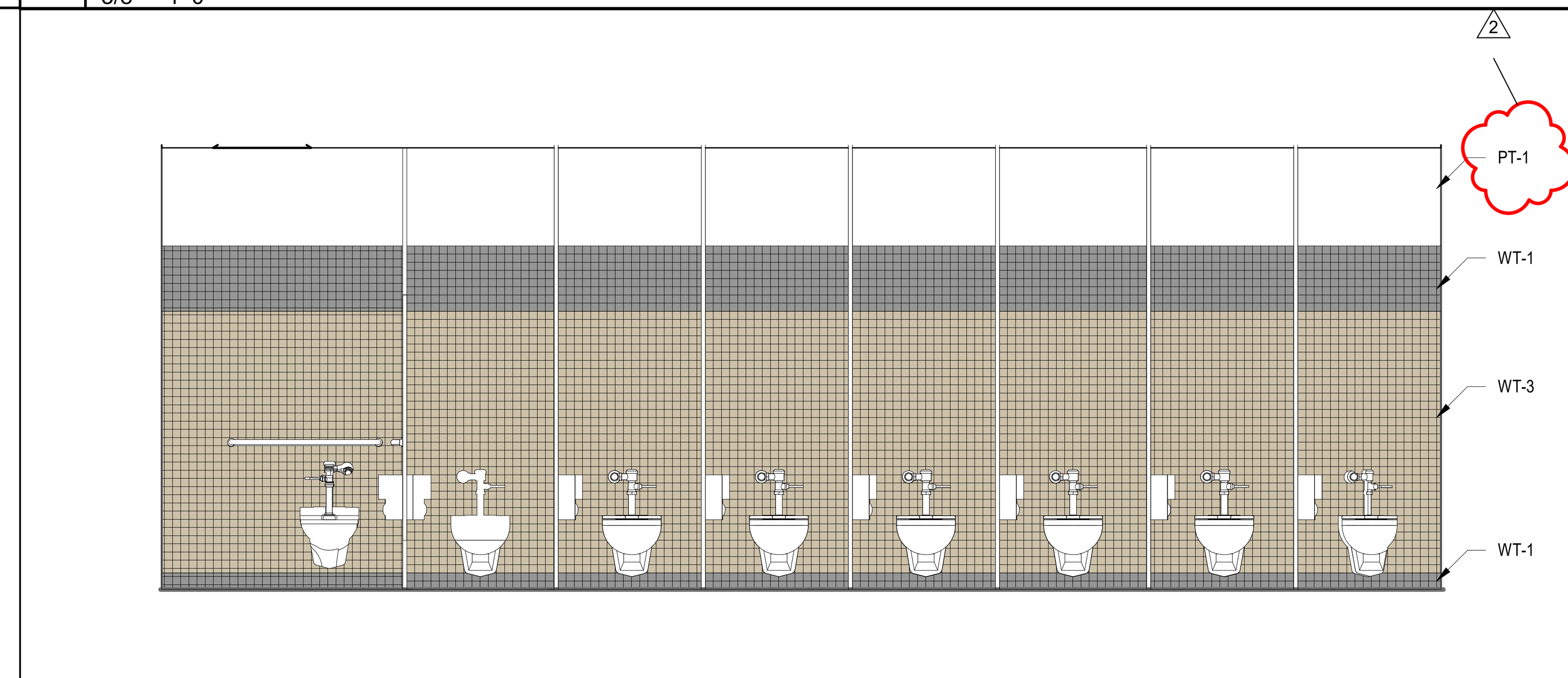
22 RESTROOM 2113 SOUTH 2
3/8" = 1'-0"



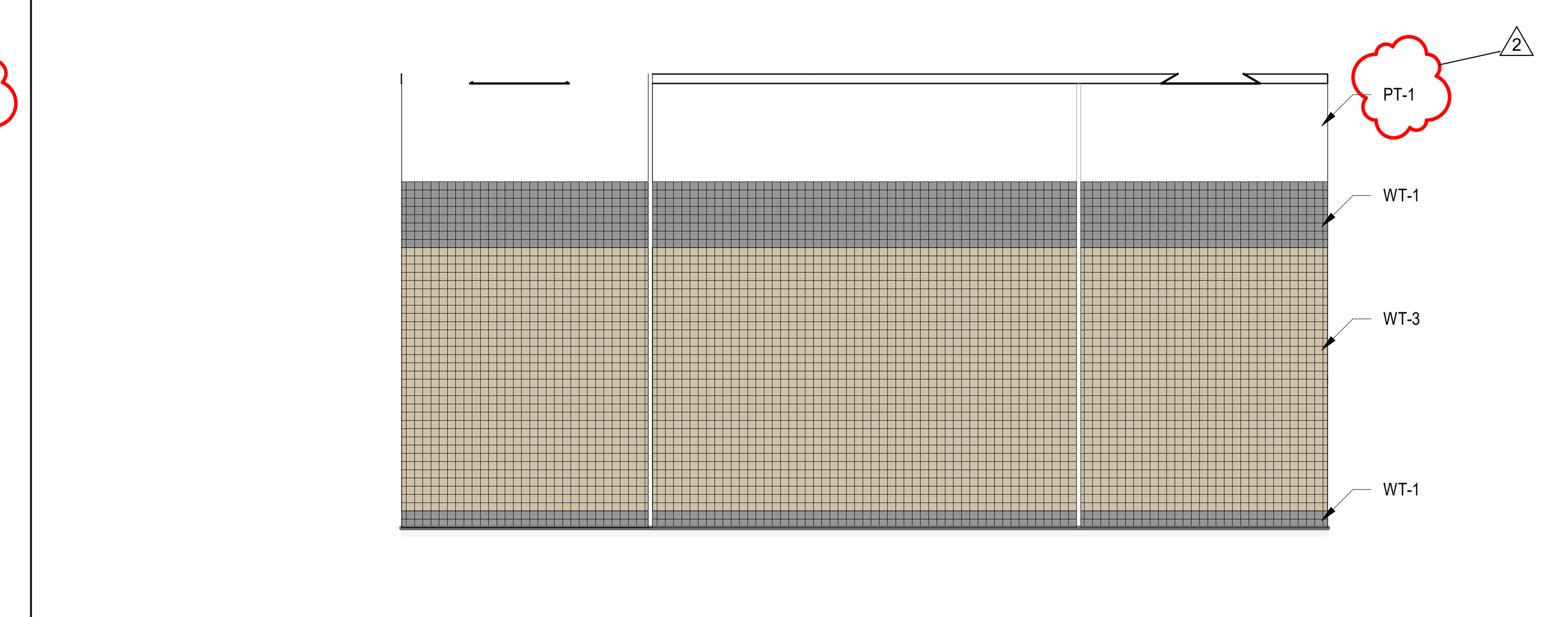
20 RESTROOM 2113 EAST 2
3/8" = 1'-0"



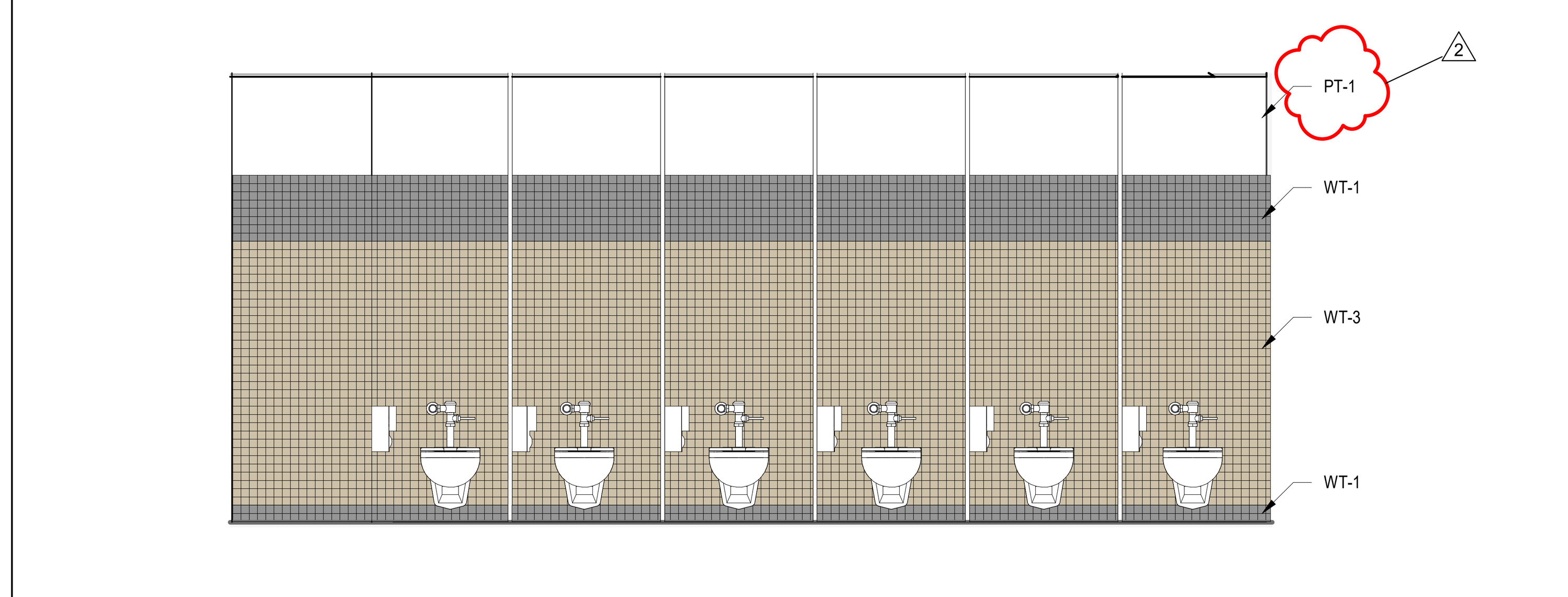
18 RESTROOM 2113 NORTH 2
3/8" = 1'-0"



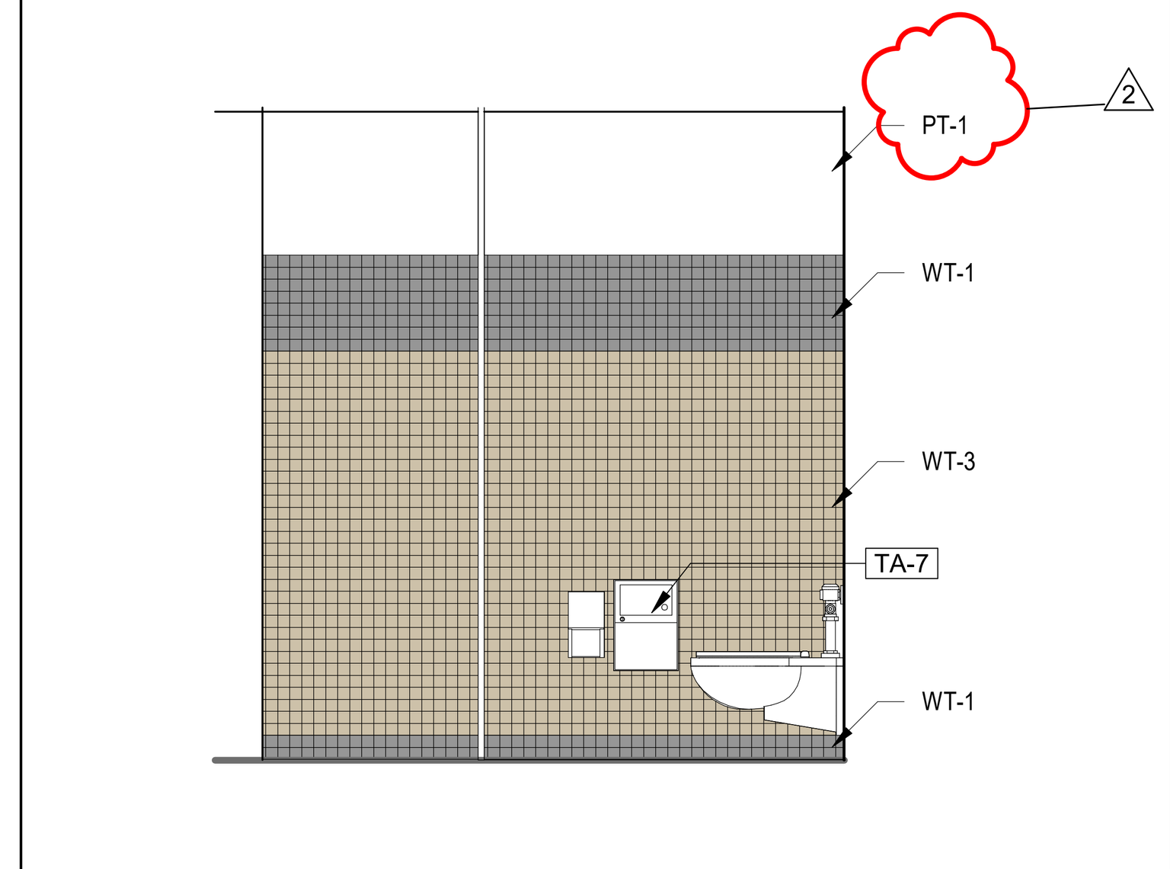
16 RESTROOM 2113 WEST
3/8" = 1'-0"



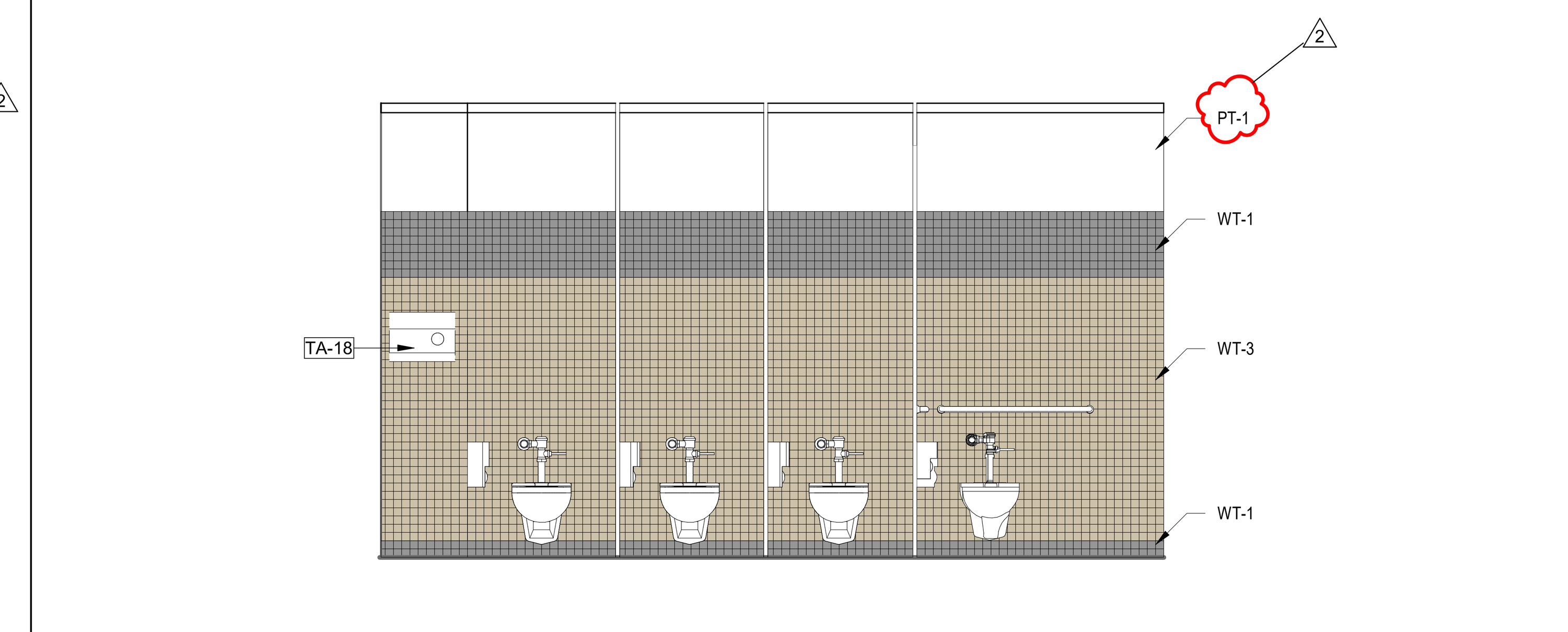
14 RESTROOM 2113 SOUTH
3/8" = 1'-0"



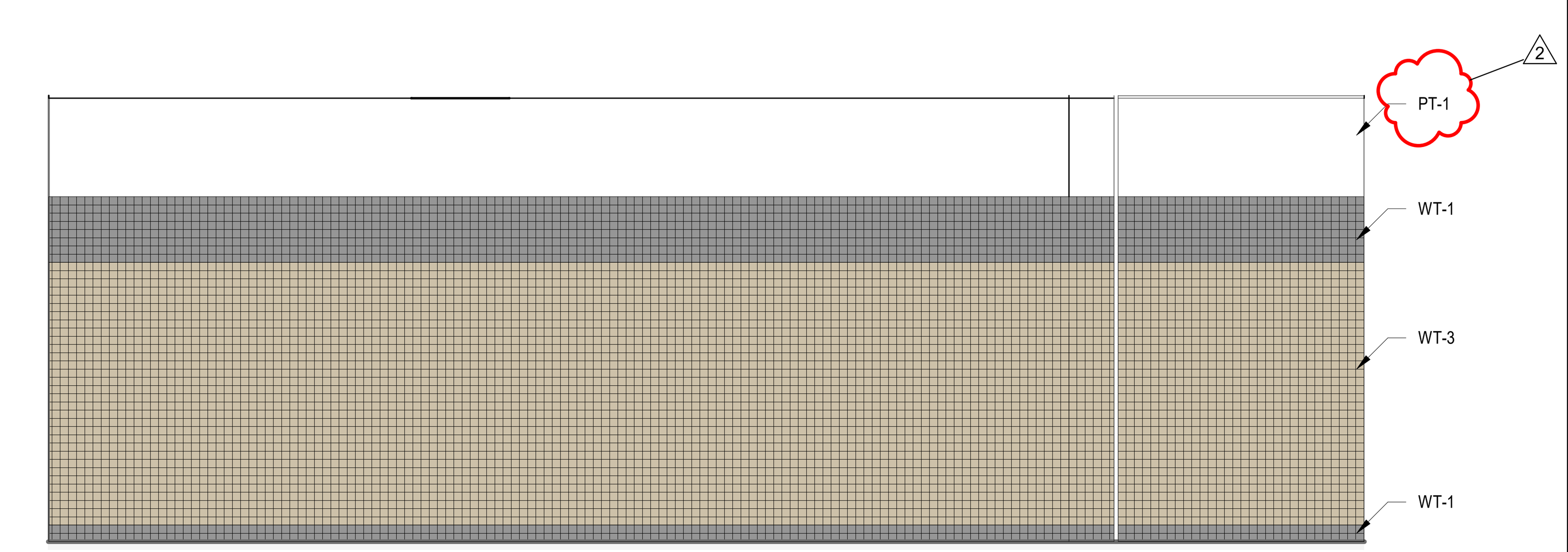
11 RESTROOM 2113 EAST
3/8" = 1'-0"



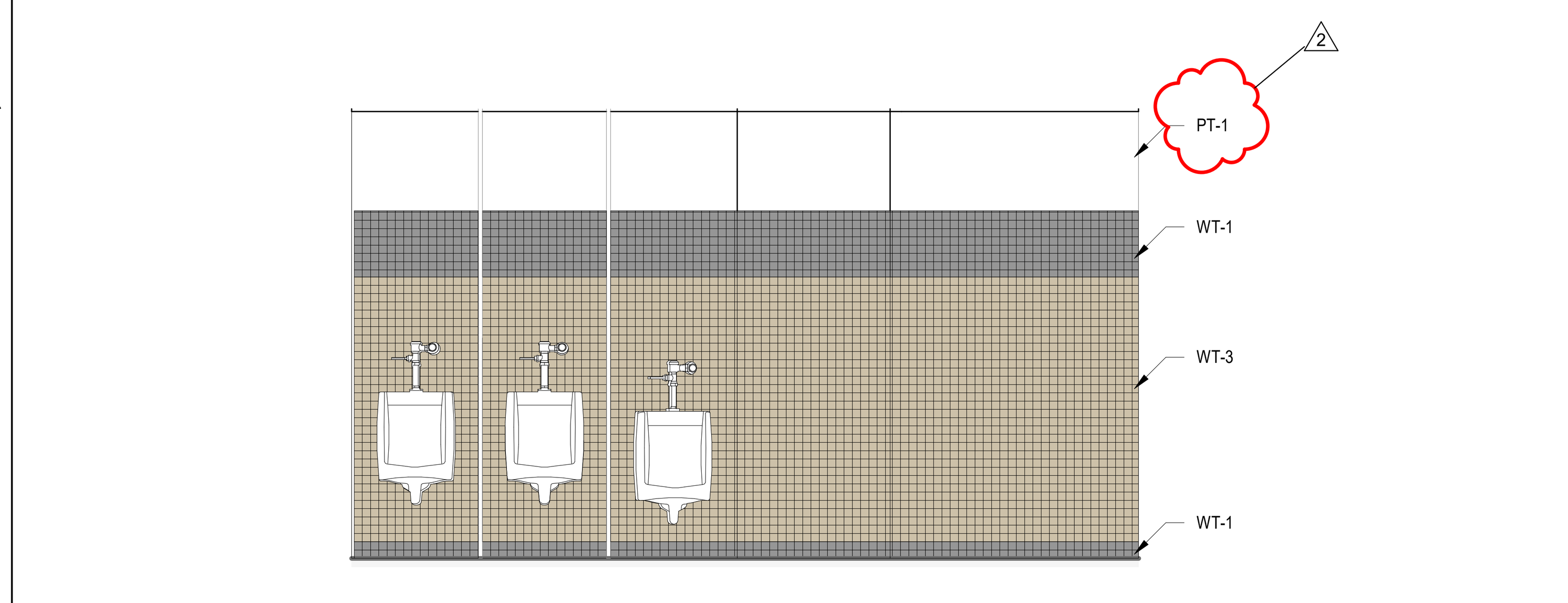
09 RESTROOM 2113 NORTH
3/8" = 1'-0"



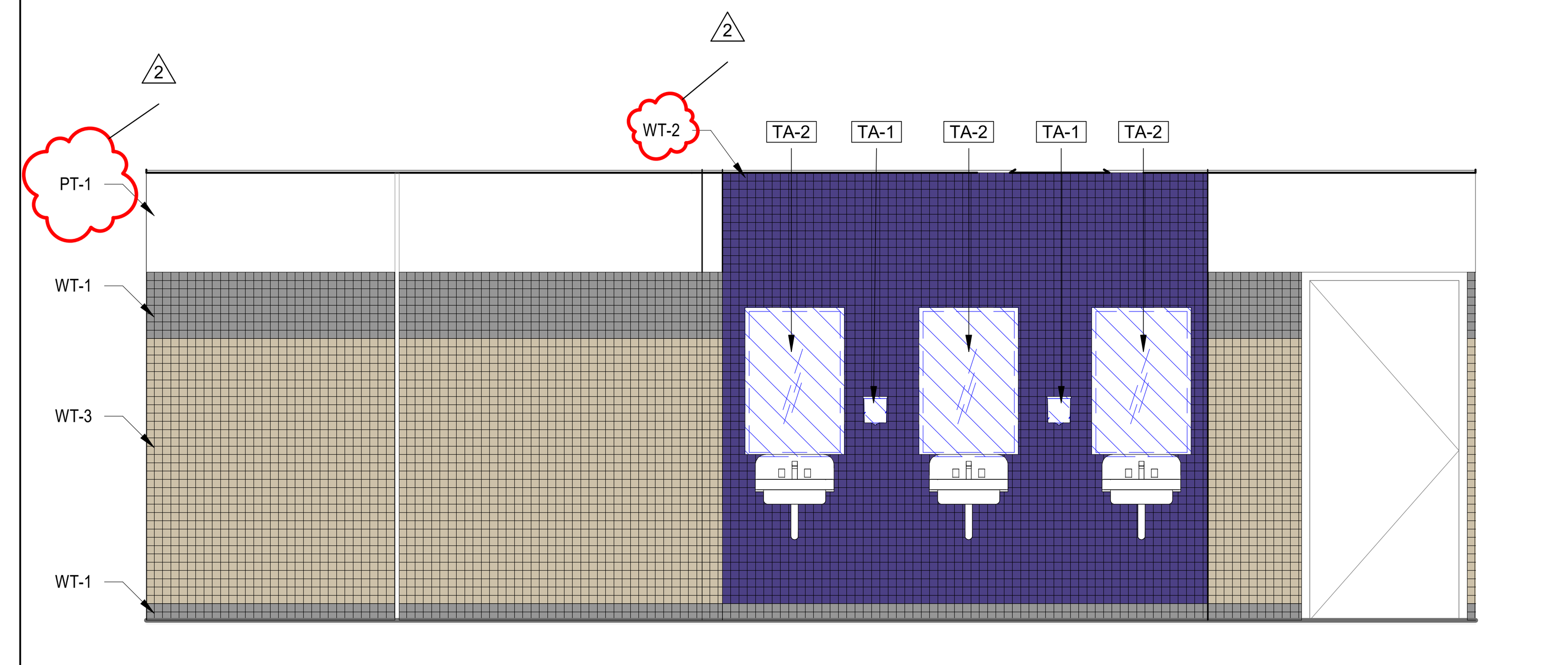
08 RESTROOM 2111 WEST
3/8" = 1'-0"



06 RESTROOM 2111 SOUTH
3/8" = 1'-0"



04 RESTROOM 2111 EAST
3/8" = 1'-0"



02 RESTROOM 2111 NORTH
3/8" = 1'-0"

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
Houston, TX 77046
713-965-0608 P
713-961-4571 F
TX Firm: F-1608

CIVIL
DIG ENGINEERS
T 713-965-0608
BUILDING ENVELOPE
BEAM PROFESSIONALS
T 713-940-3201
STRUCTURAL
KUBALA ENGINEERS
T 832-737-2639
MEPT
LEAF ENGINEERS
T 713-940-3300
LANDSCAPE
GREENSCAPE ASSOCIATES
T 713-940-3300

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

ENLARGED - RESTROOM ELEVATIONS

A-444

CHECKED BY:
Checker
DRAWN BY:
Author
Plot Stamp:
1/16/2025 2:35:25 PM

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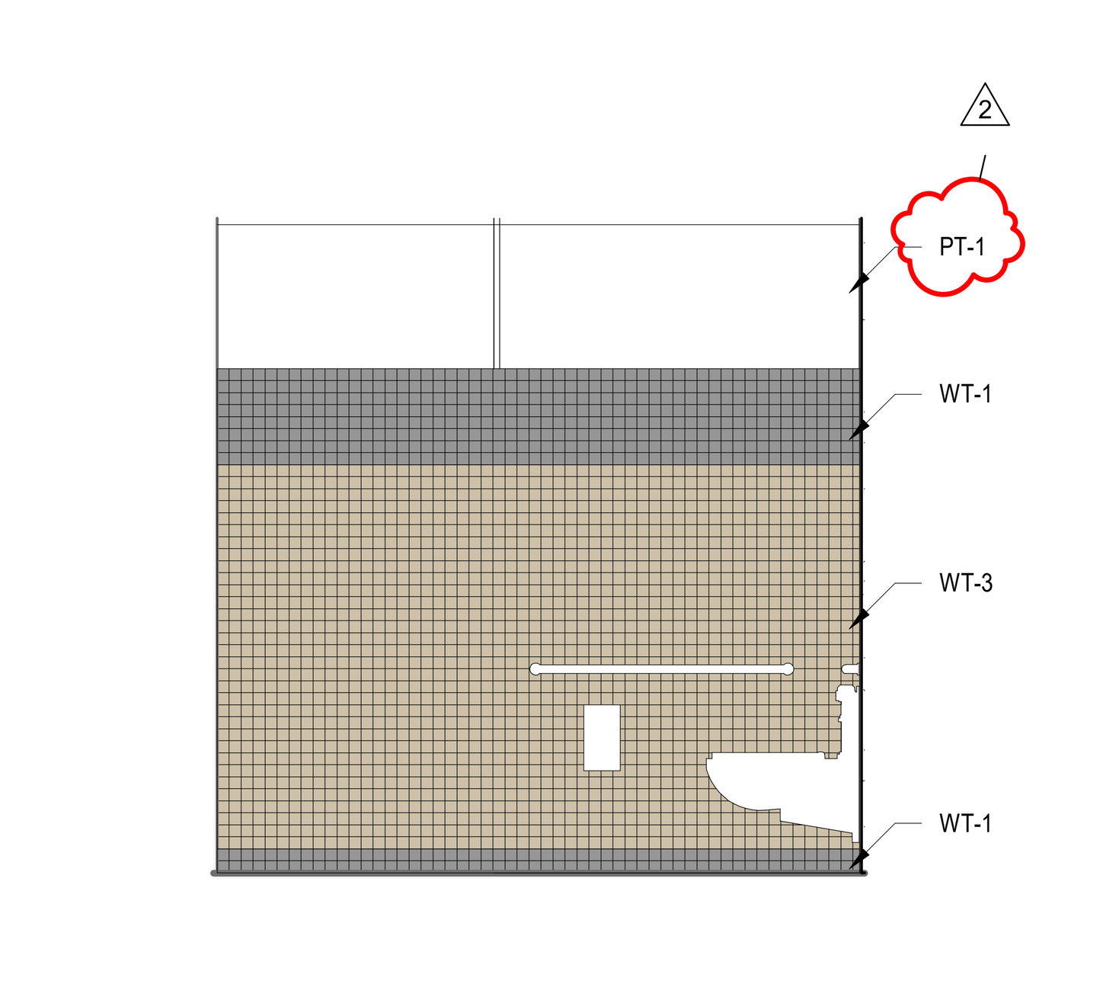
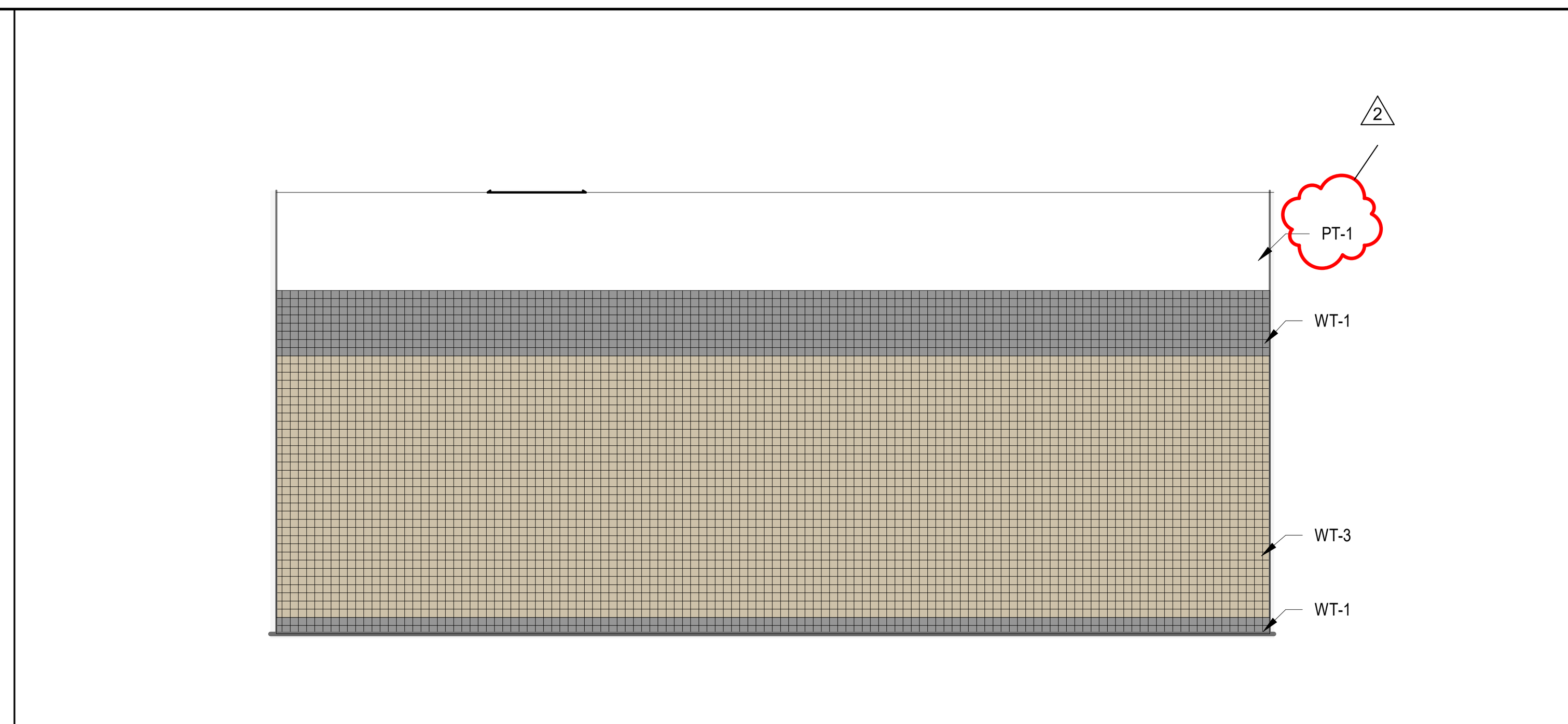


30 EXIST. RESTROOM 7128B EAST
3/8" = 1'-0"



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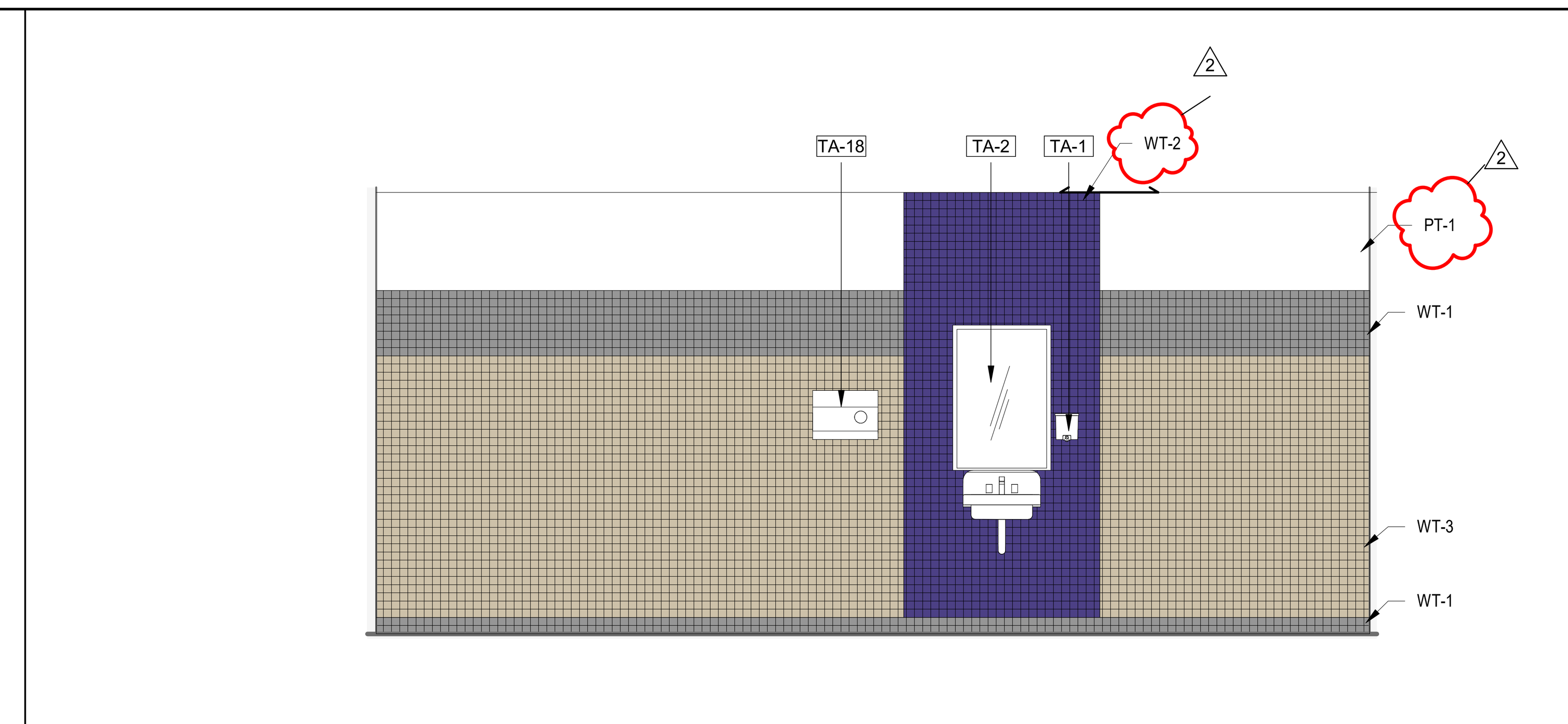
3/8" = 1'-0"



27 EXIST. RESTROOM 7128A SOUTH
3/8" = 1'-0"

TOILET ACCESSORIES

LABEL	DESCRIPTION	REMARKS
TA-1	SOAP DISPENSER	
TA-2	MIRROR	
TA-3	TOILET PAPER DISPENSER	
TA-4	PAPER TOWEL DISPENSER	
TA-5	GRAB BARS (AT TYPICAL ACCESSIBLE TOILETS)	
TA-6	SANITARY NAPKIN DISPENSER	
TA-7	SANITARY NAPKIN DISPOSAL	
TA-8	MOP AND BROOM HOLDER	
TA-9	GRAB BARS (AT ACCESSIBLE SHOWERS)	
TA-10	FOLDING SHOWER BENCH	
TA-11	CLOTHES HOOK	NOTE 5
TA-12	SHOWER CURTAIN, ROD AND HOOKS	
TA-13	NOT USED	
TA-14	NOT USED	
TA-15	NOT USED	
TA-16	NOT USED	
TA-17	NOT USED	
TA-18	ELECTRIC HAND DRYER	
TA-19	SEAT COVER DISPENSER	
TA-20	SPECIMEN PASSTHRU	

NOTE: ALL TOILET ACCESSORIES SHALL BE CONTRACTOR FURNISHED AND CONTRACTOR INSTALLED U.N.O.
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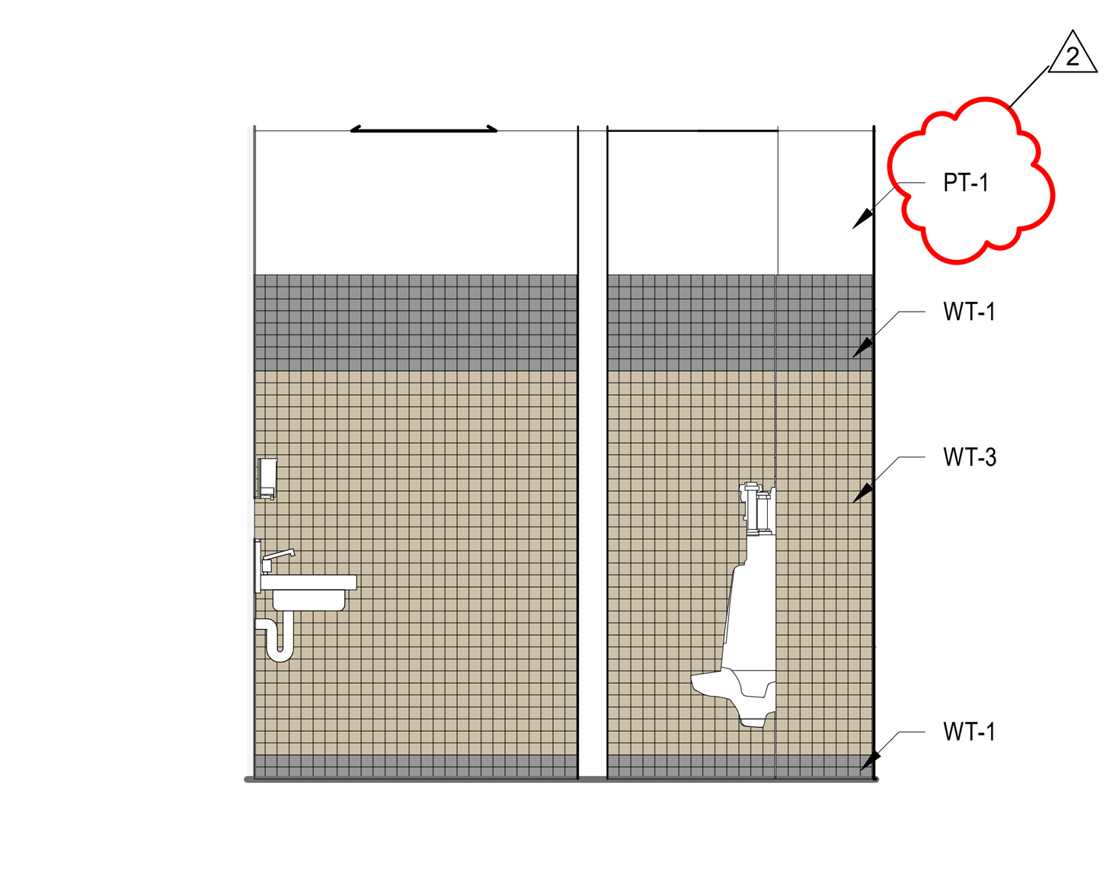
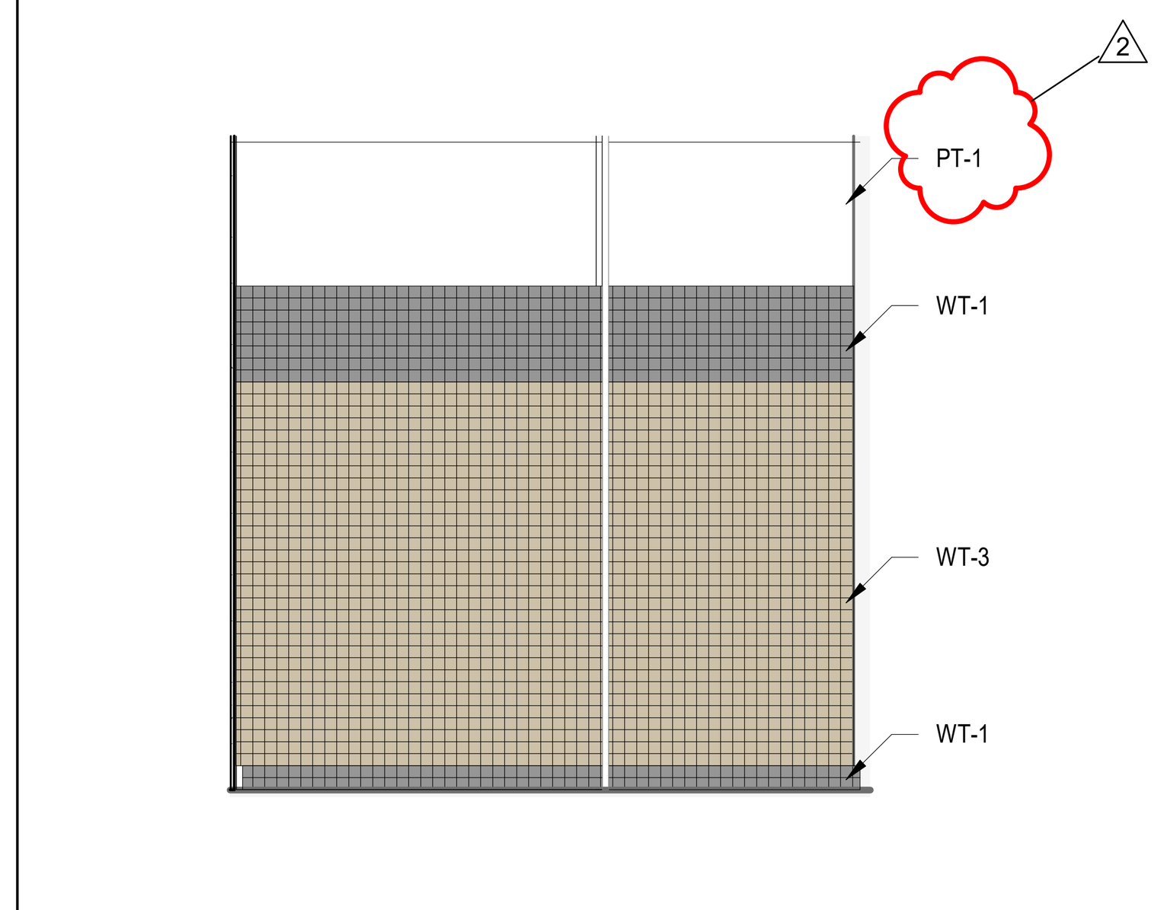
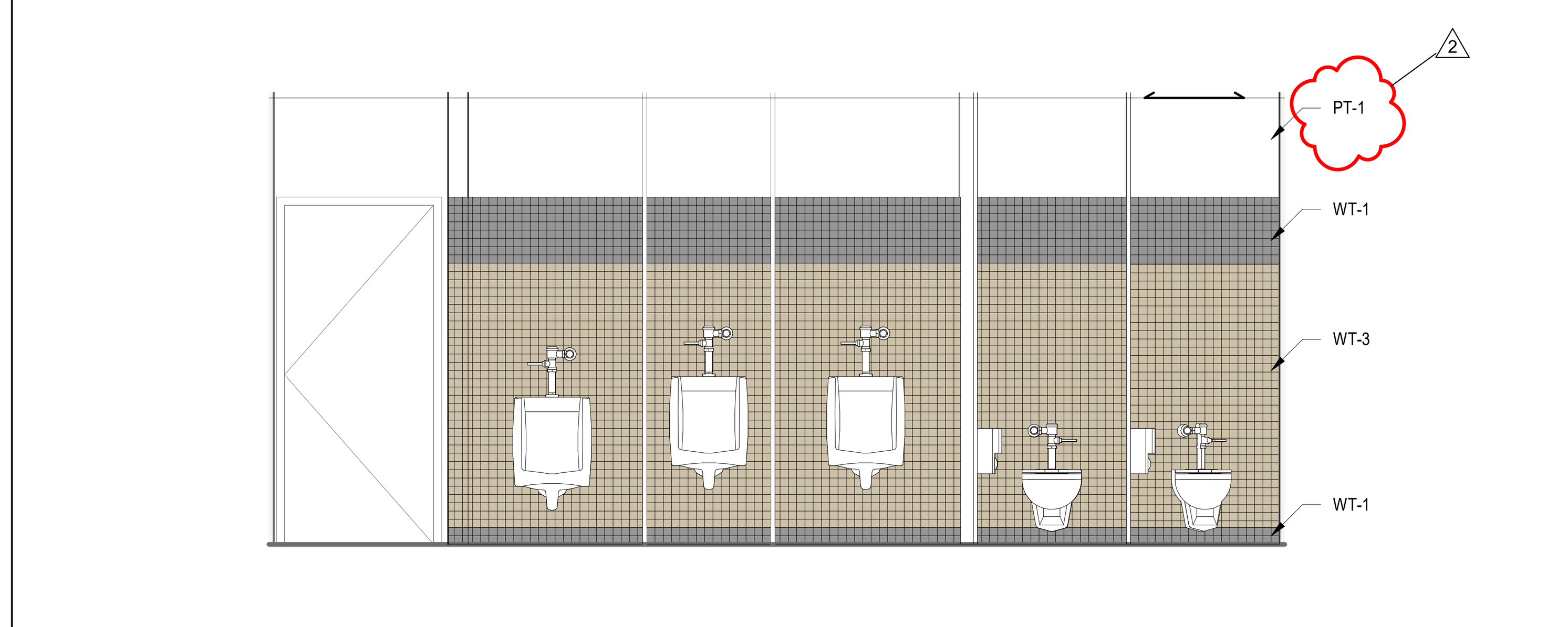
2. CONTRACTOR IS TO VERIFY ALL HEIGHTS OF ACCESSORIES TO COMPLY WITH ALL APPLICABLE ACCESSIBILITY REQUIREMENTS
3. REFER TO ALL FINISHES AND COLORS IN FINISH SCHEDULE, VERIFY ALL PATTERNS WITH ARCHITECT
4. ALIGN MIRROR ON CENTER OF LAVATORY
5. ONE (1) HOOK SHALL BE INSTALLED INSIDE DOOR AT EACH TOILET PARTITION. ONE HOOK INSIDE DOOR AT SINGLE TOILET ROOMS AND ONE HOOK AT EACH SHOWER



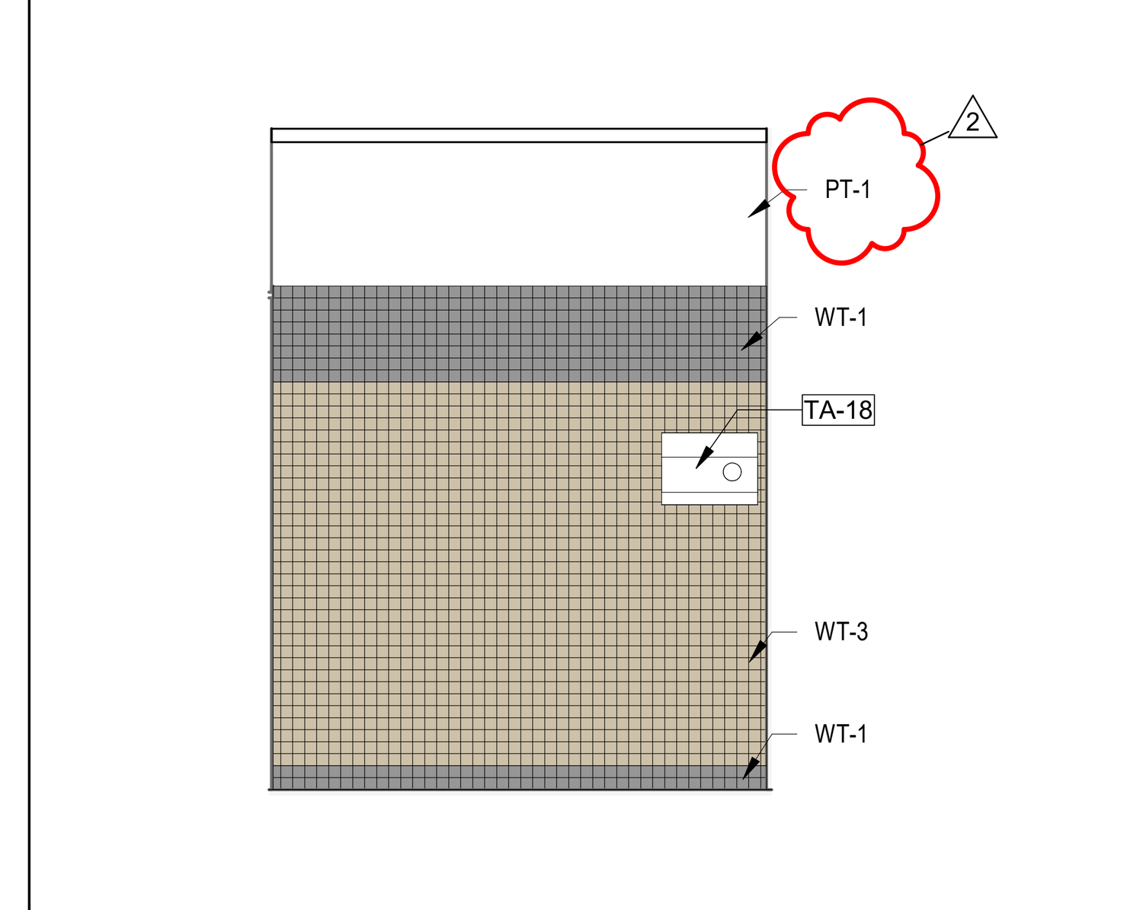
24 EXIST. RESTROOM 7128A WEST
3/8" = 1'-0"



23 EXIST. RESTROOM 7128A EAST
3/8" = 1'-0"



22 EXIST. RESTROOM 7128A NORTH
3/8" = 1'-0"



20 RESTROOM 2105A WEST
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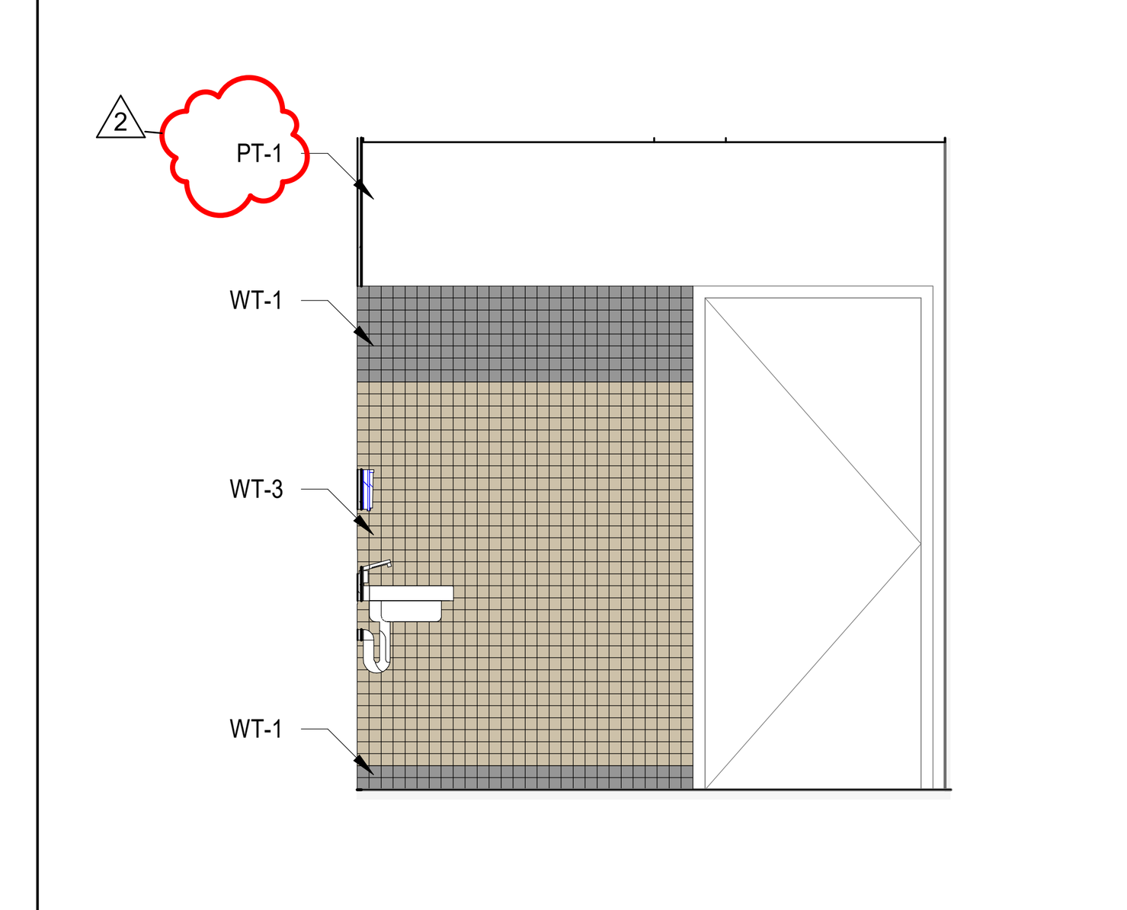

19 RESTROOM 2105A SOUTH
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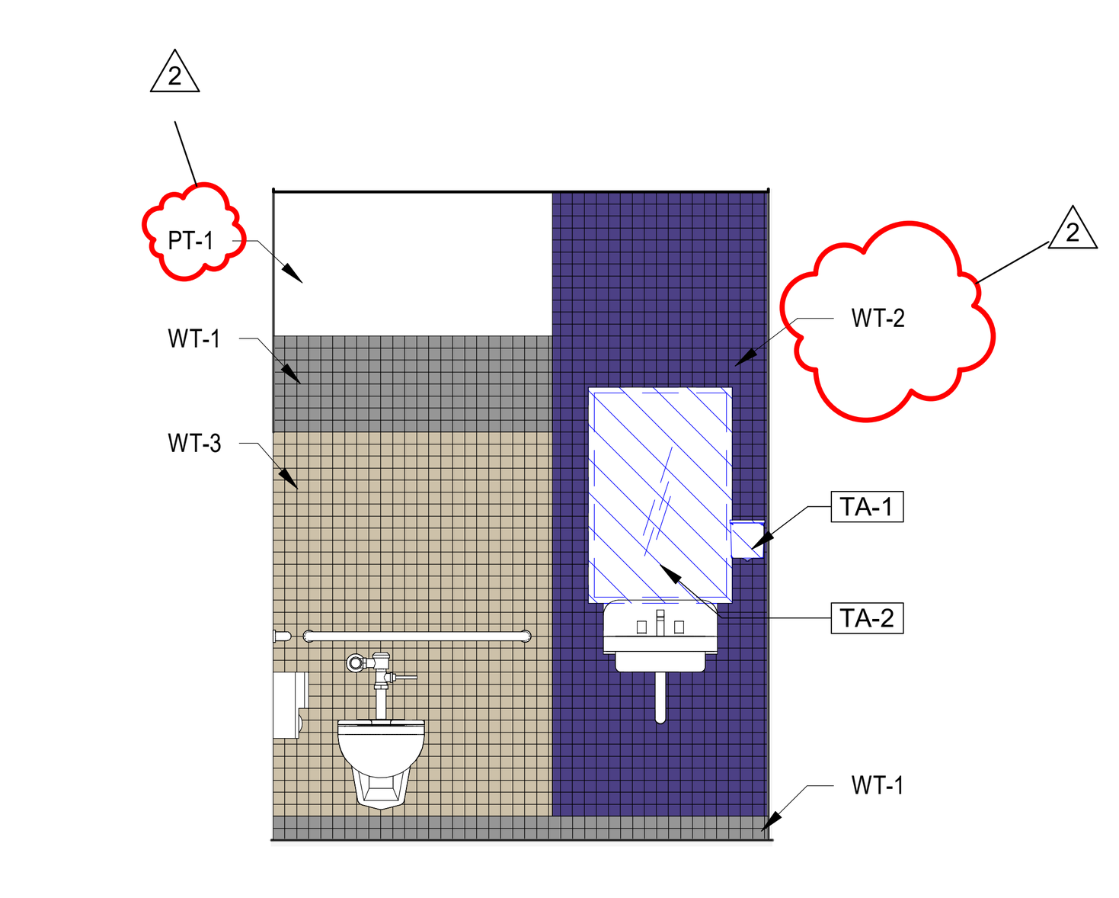

18 RESTROOM 2105A EAST
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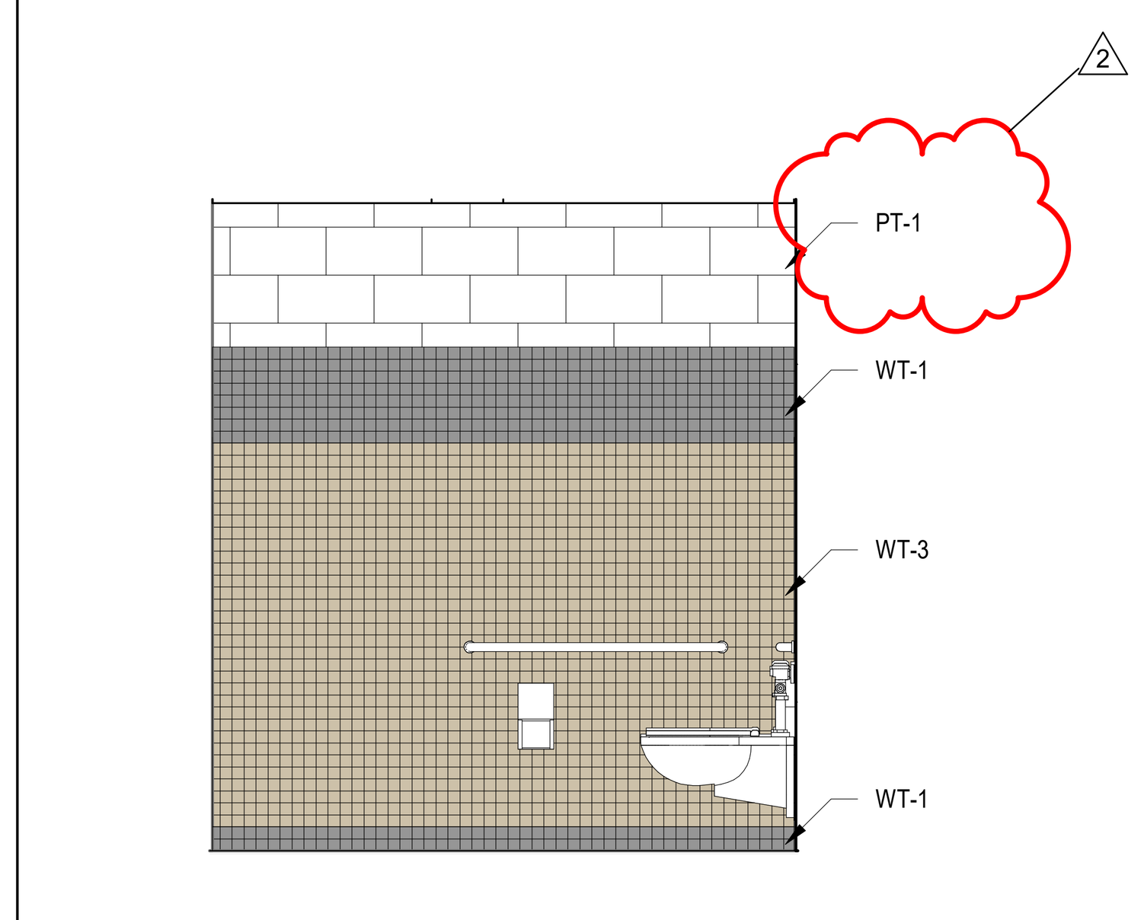

17 RESTROOM 2105A NORTH
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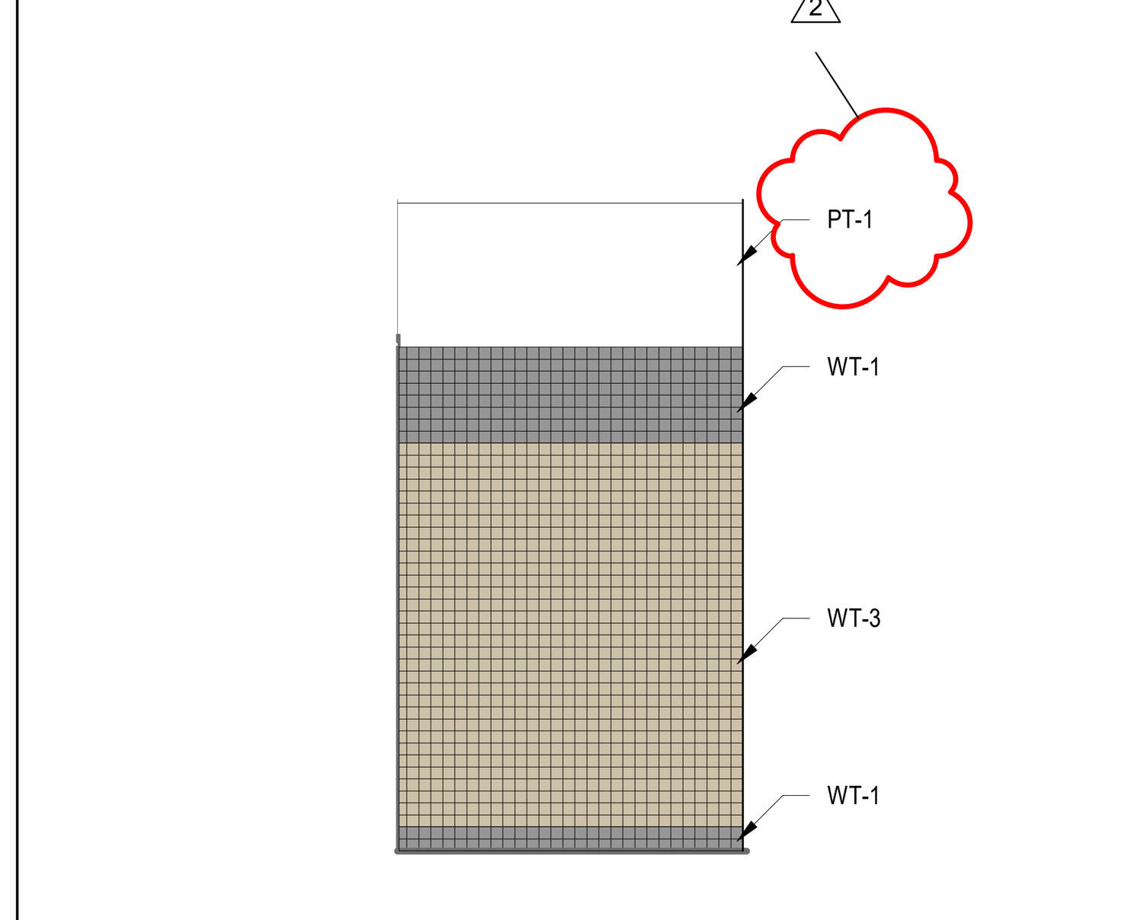

16 RESTROOM 6104 WEST 2
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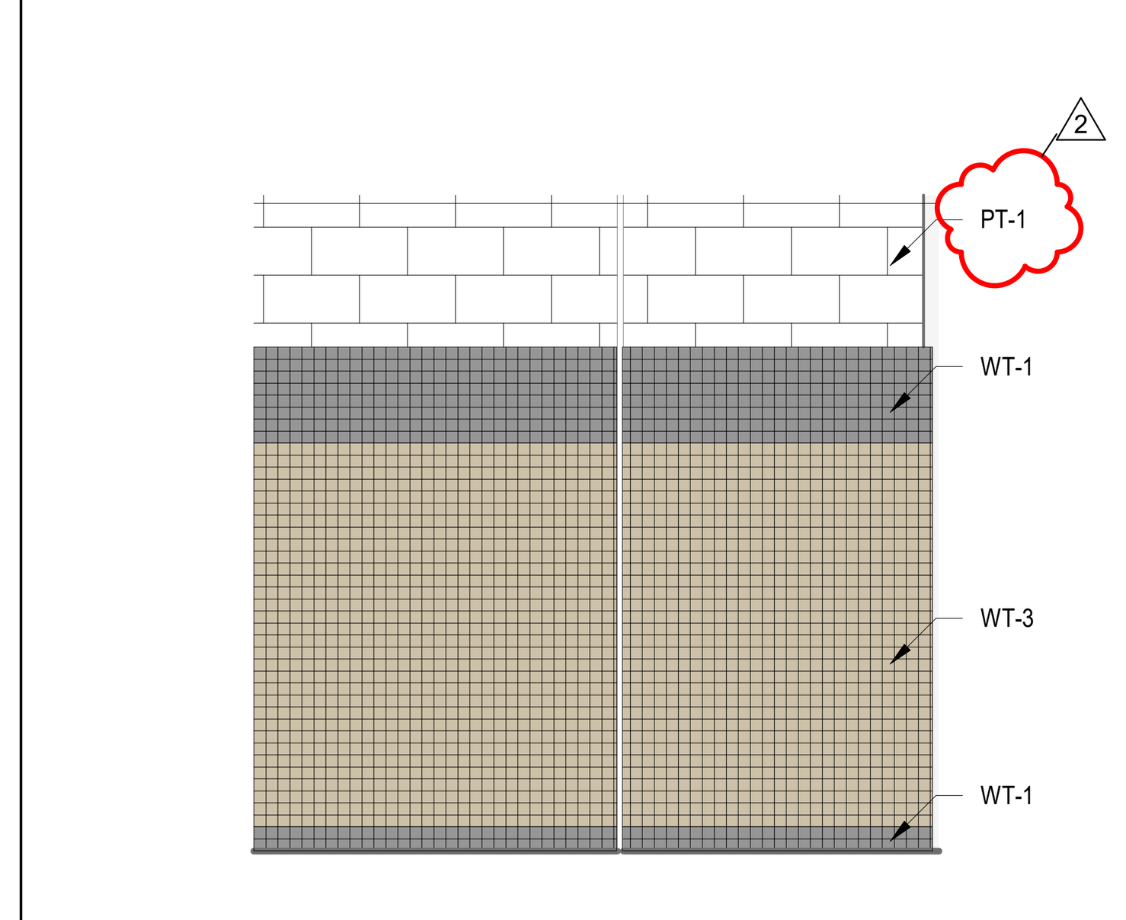

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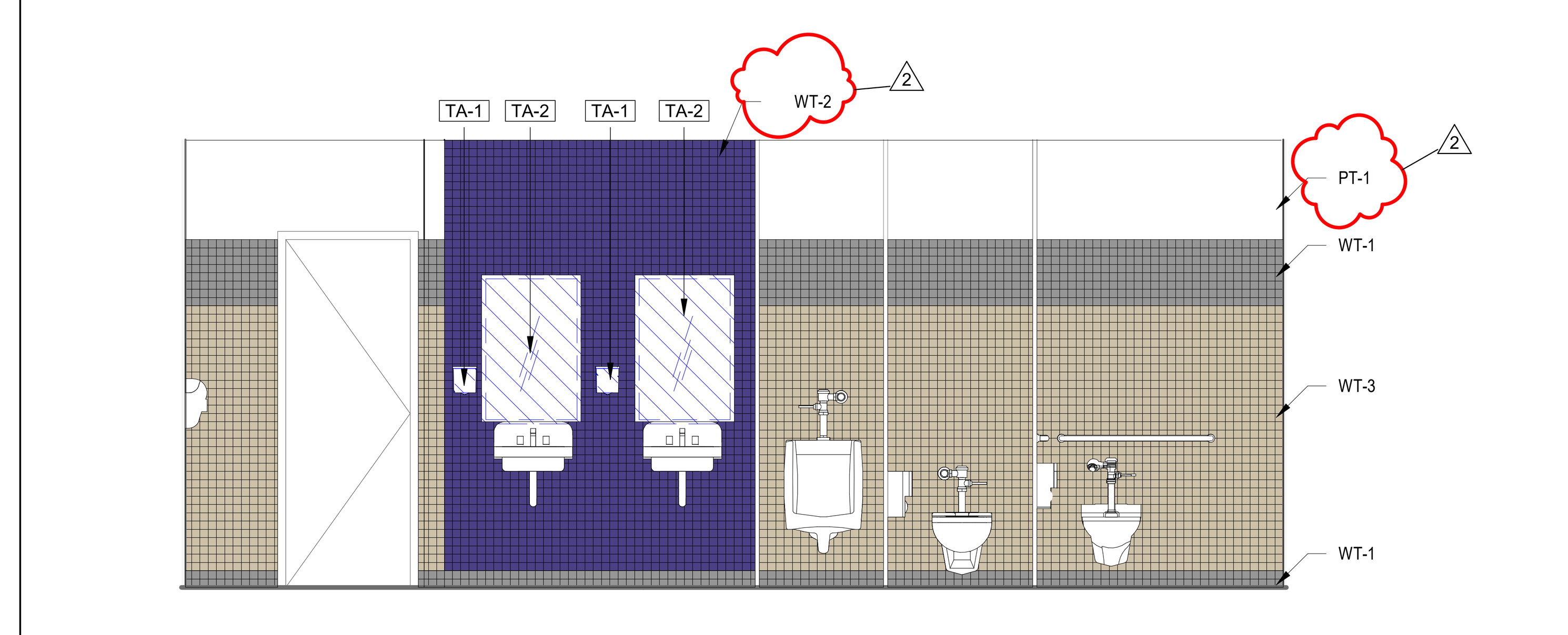
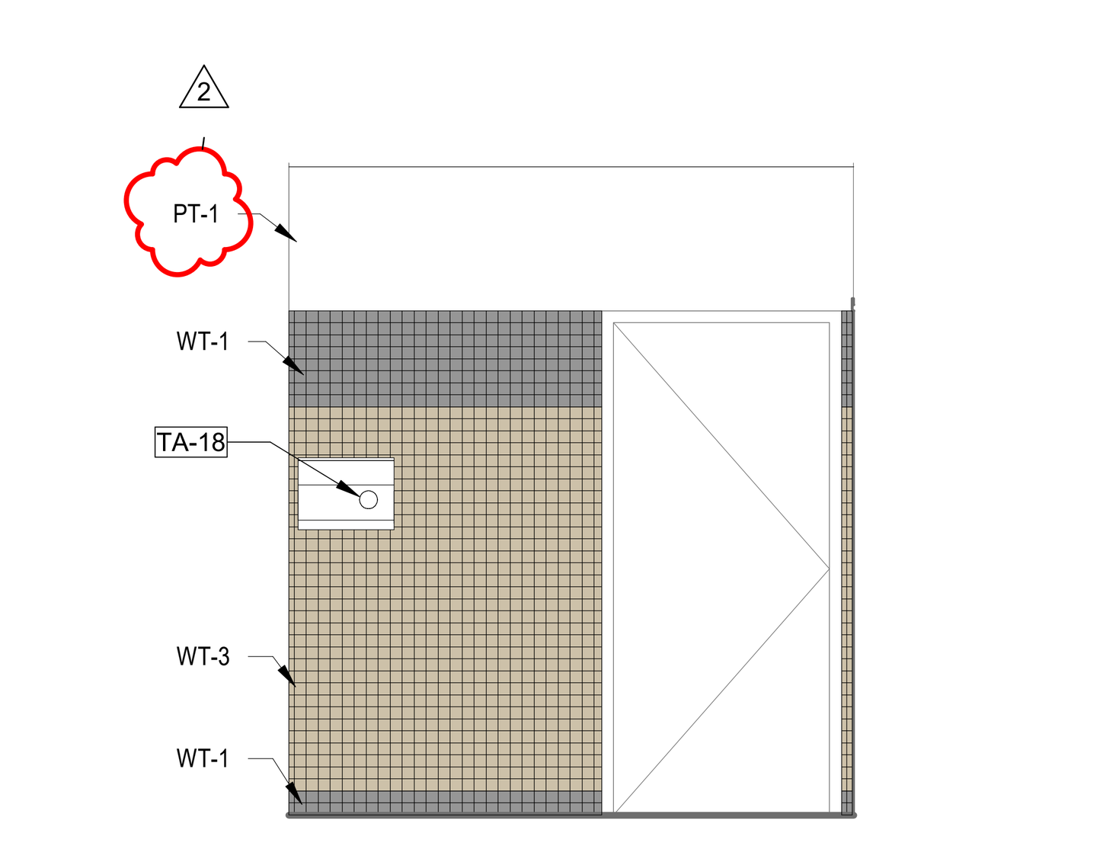
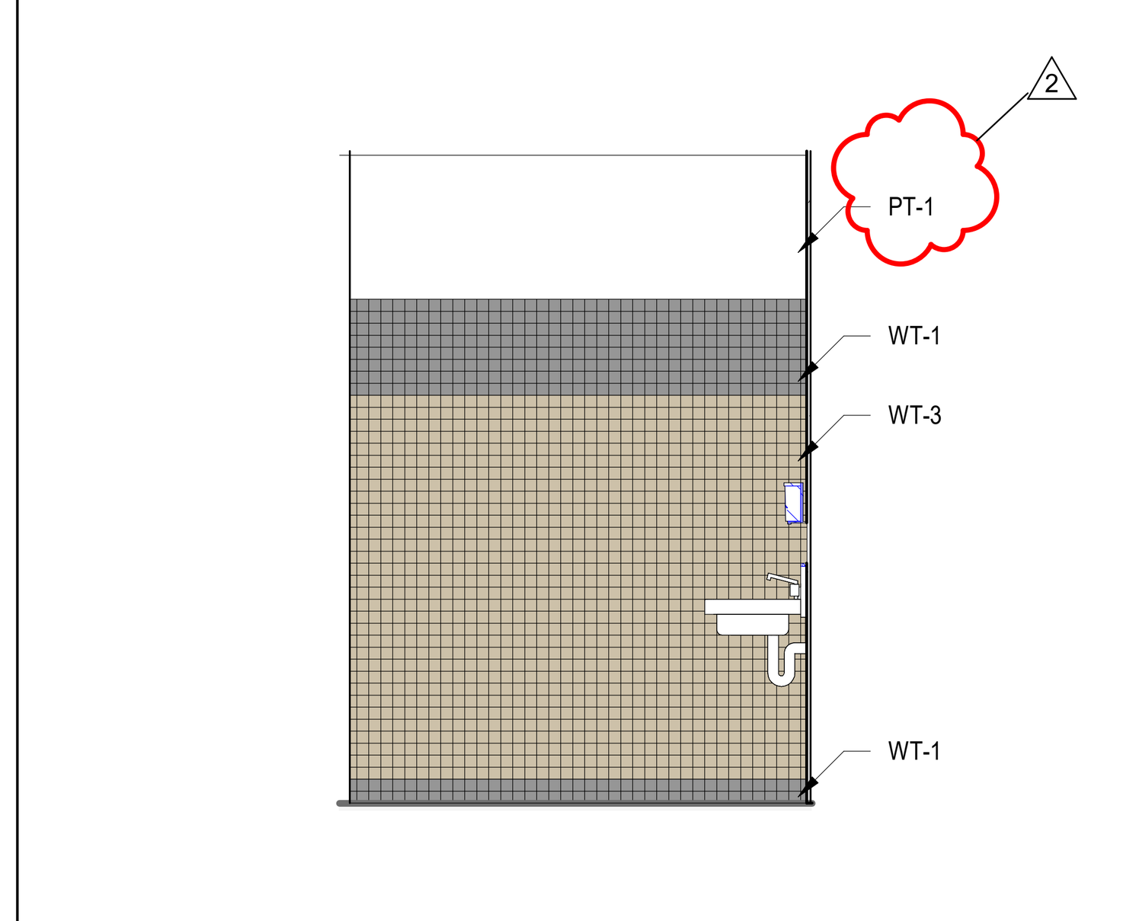
3/8" = 1'-0"



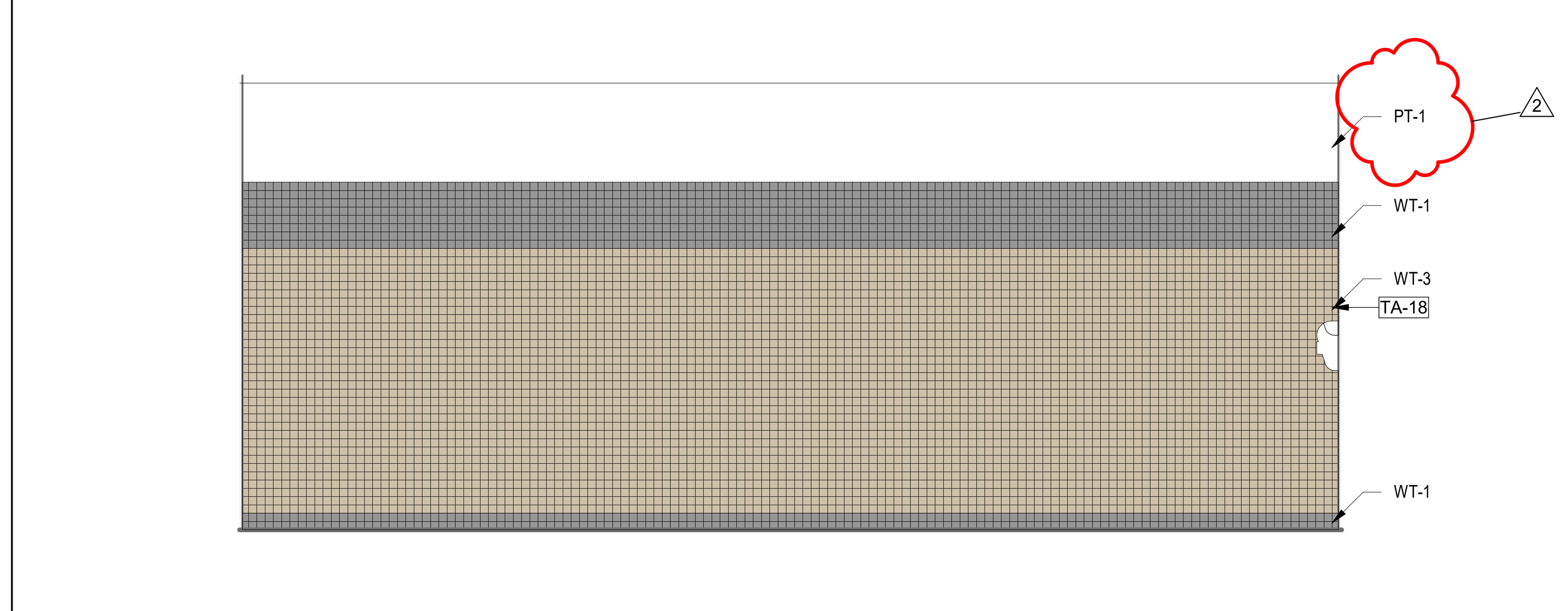
14 RESTROOM 6104 SOUTH
3/8" = 1'-0"



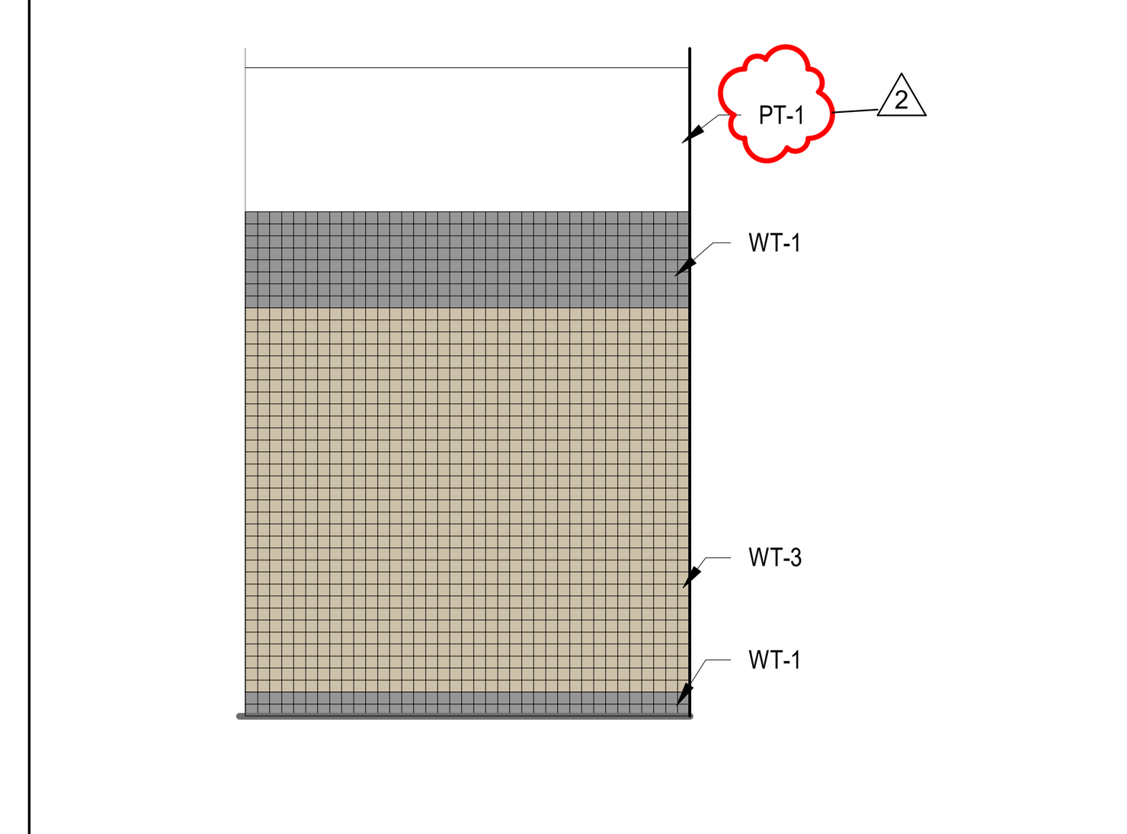
12 RESTROOM 6104 EAST 2
3/8" = 1'-0"



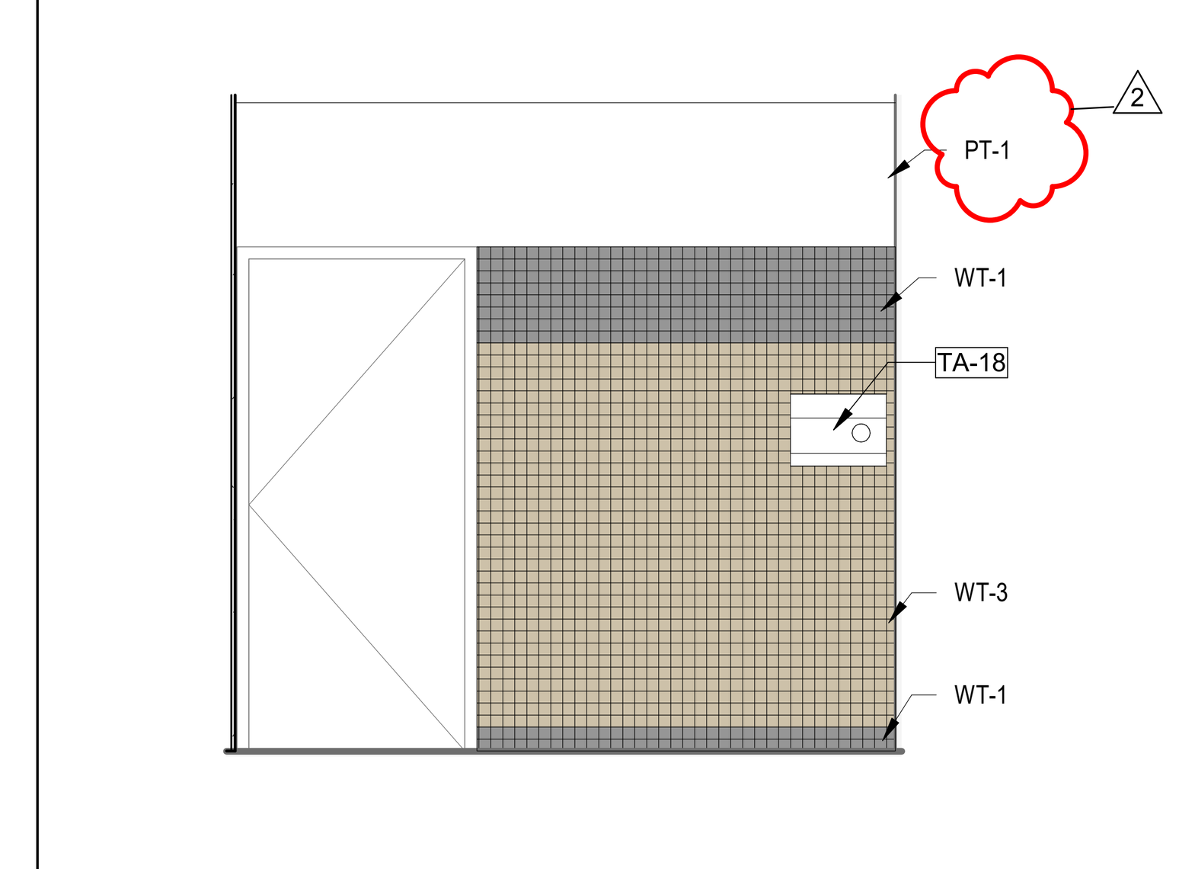
11 RESTROOM 6104 EAST
3/8" = 1'-0"



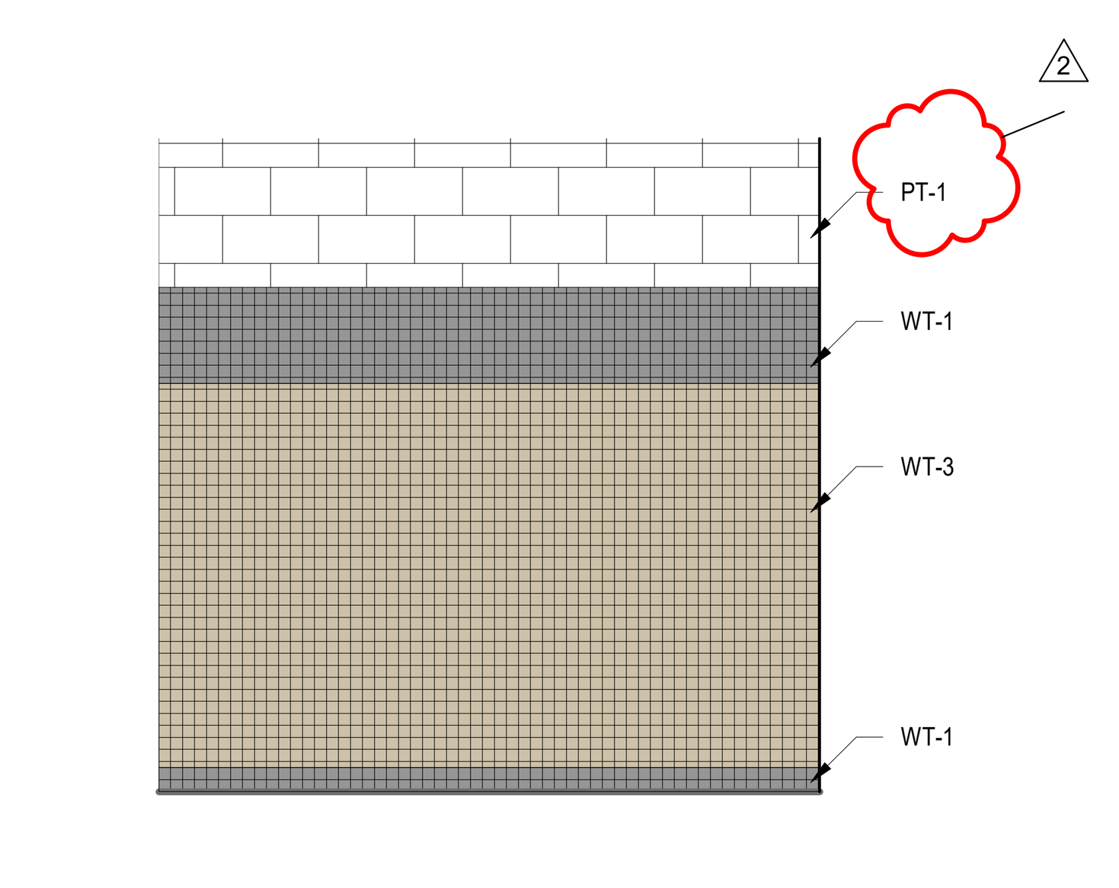
10 RESTROOM 6104 NORTH
3/8" = 1'-0"



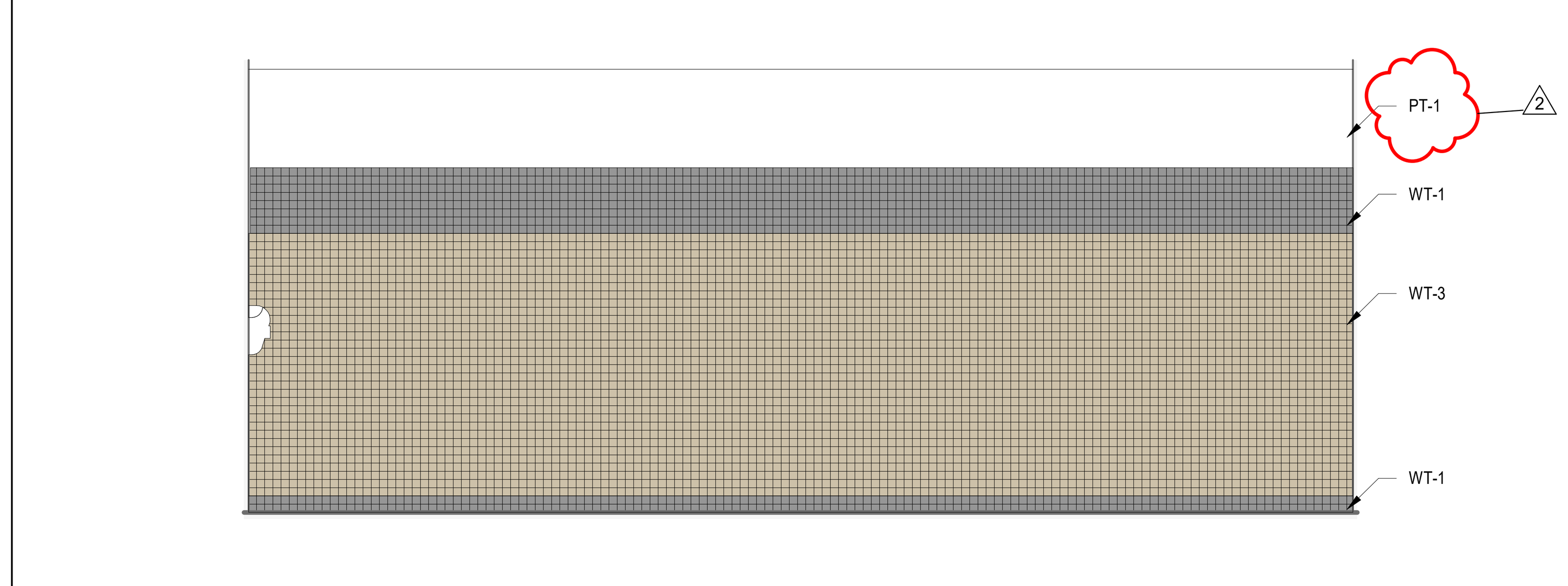
08 RESTROOM 6103 WEST 2
3/8" = 1'-0"



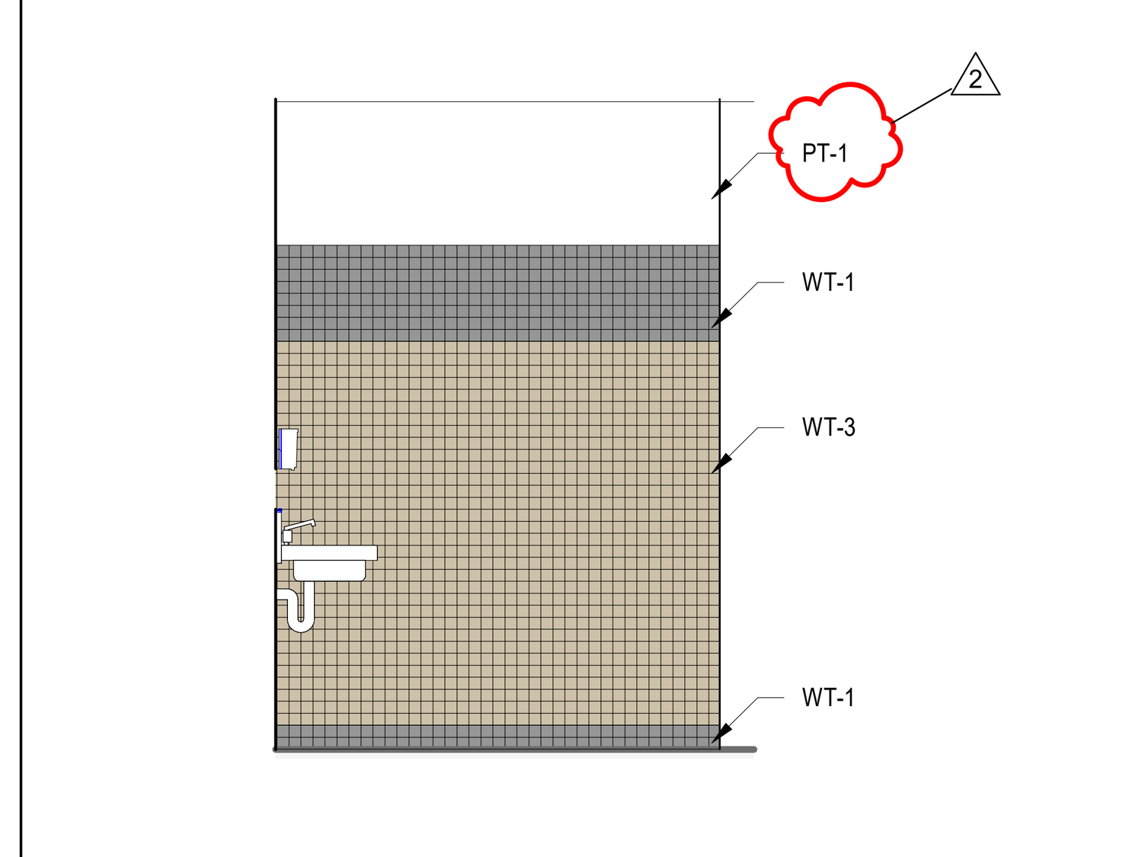
07 RESTROOM 6103 EAST 2
3/8" = 1'-0"



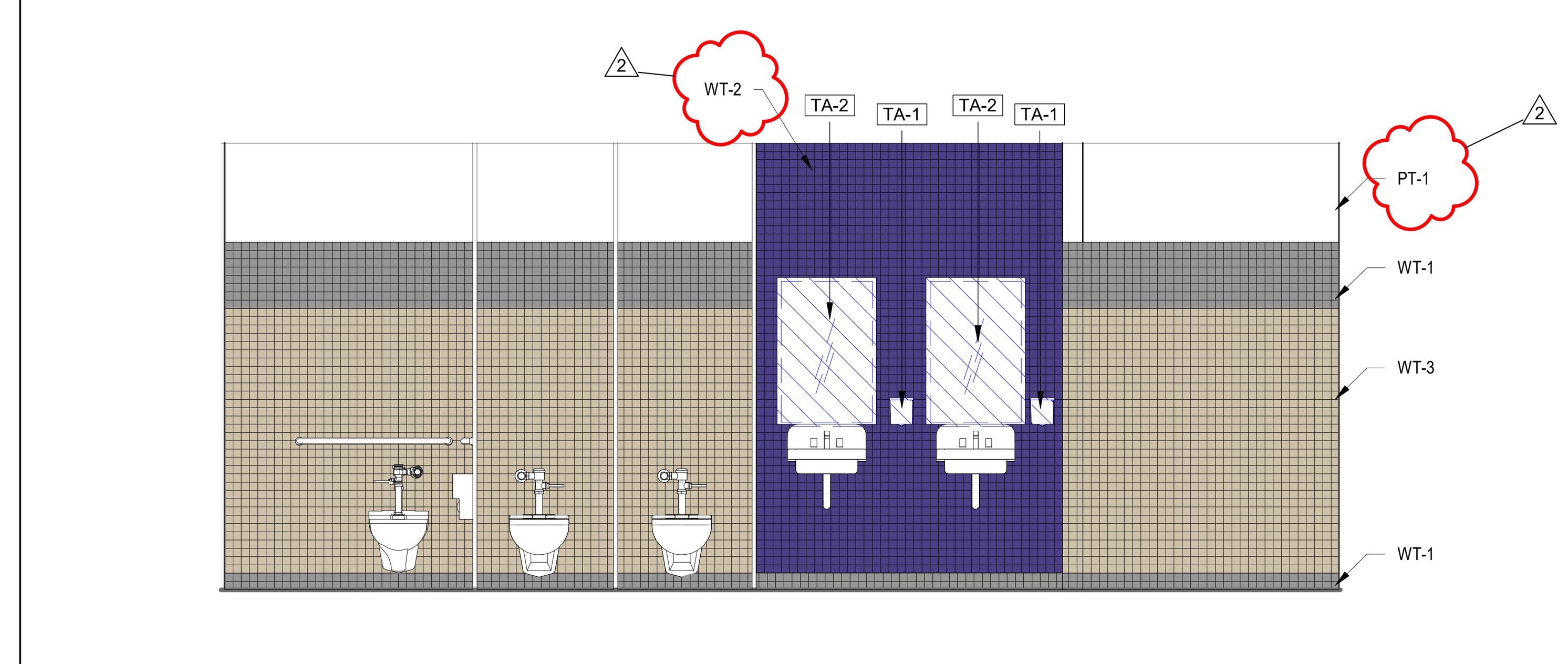
06 ELEVATION 6103 WEST
3/8" = 1'-0"



05 RESTROOM 6103 SOUTH
3/8" = 1'-0"



03 RESTROOM 6103 EAST
3/8" = 1'-0"



02 RESTROOM 6103 NORTH
3/8" = 1'-0"

ARCHITECT PBK Architects, Inc.
HOUSTON PBK.com
11 Greenway Plaza, 22nd Floor
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713-961-4571 F
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MEPT
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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
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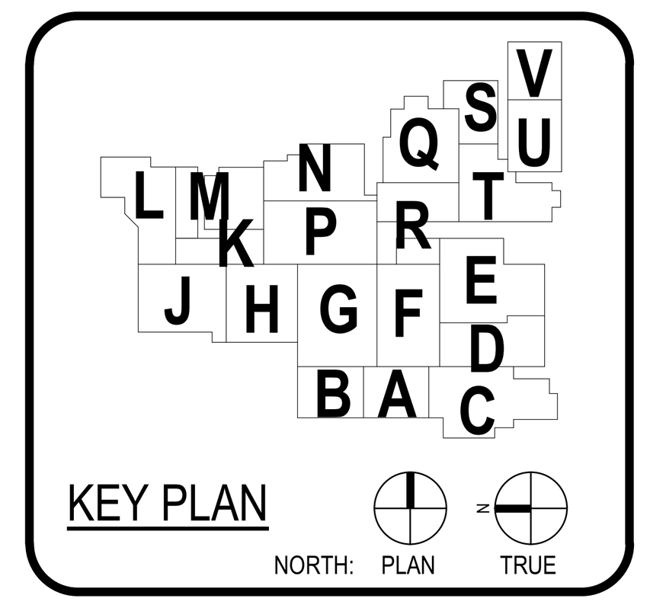
ISSUE FOR PROPOSAL
CSP: 2025-09



DISCIPLINE

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

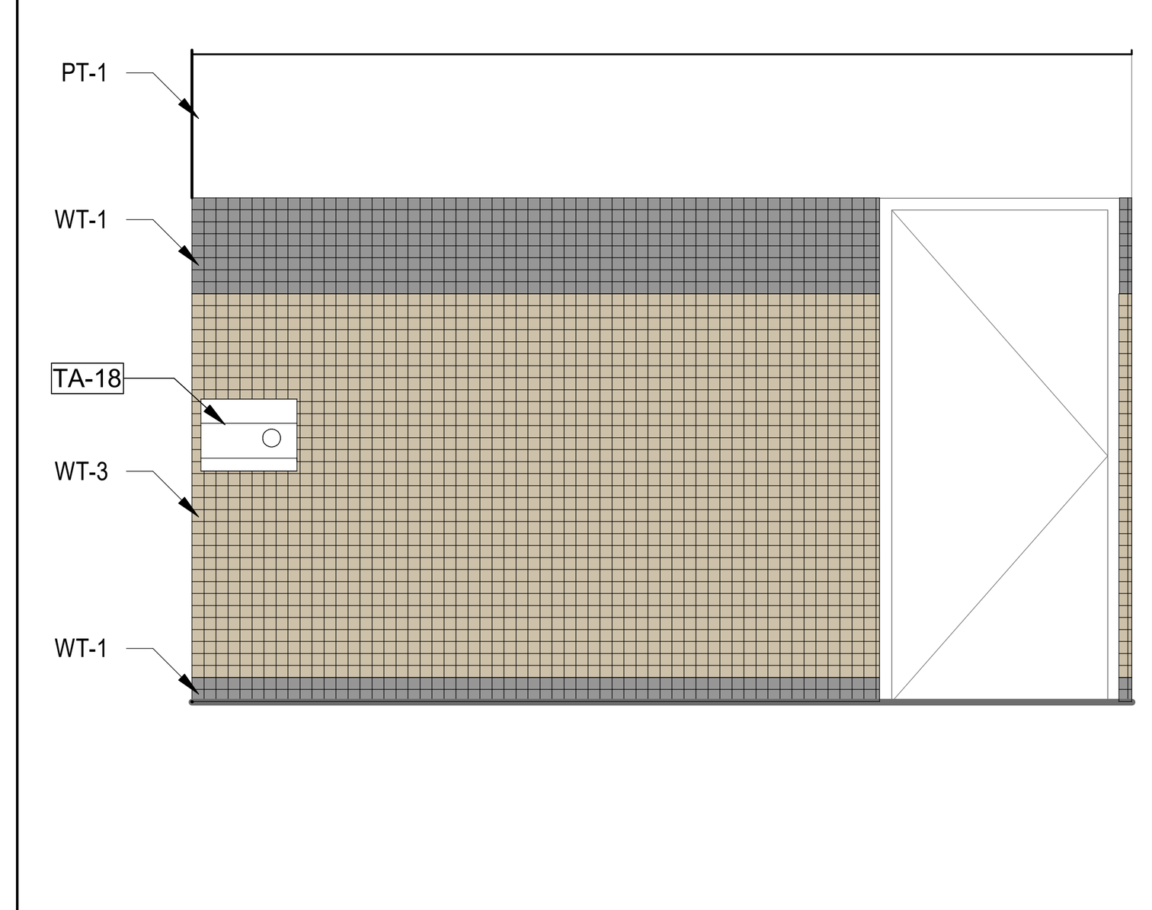
ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

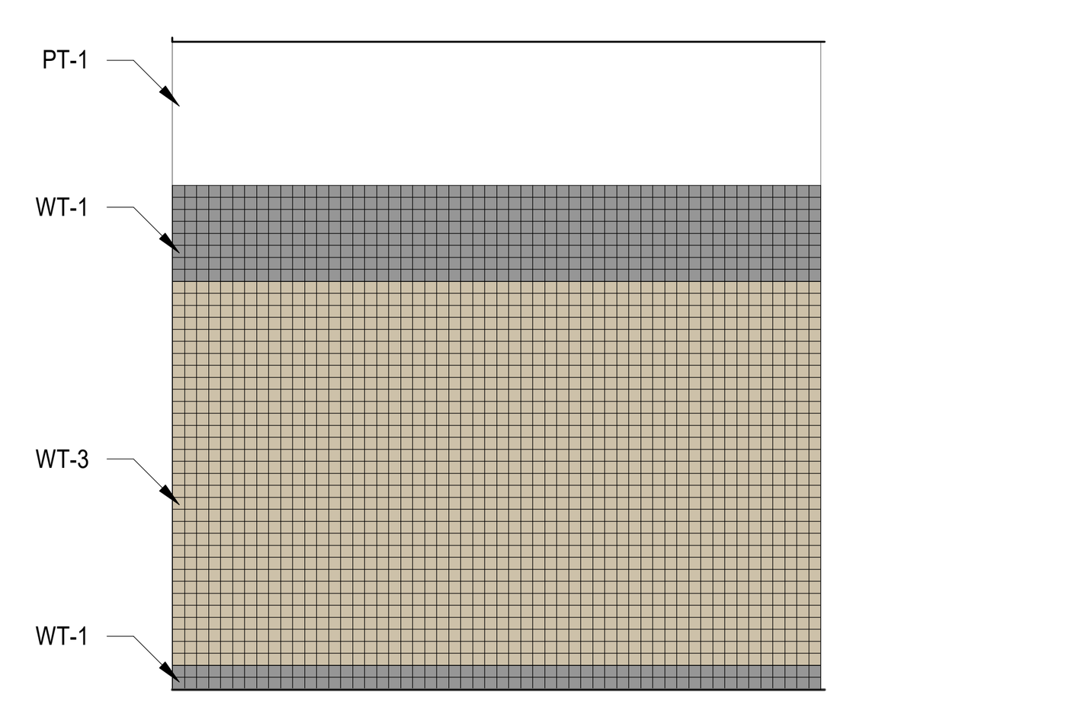
ENLARGED - RESTROOM ELEVATIONS

A-445

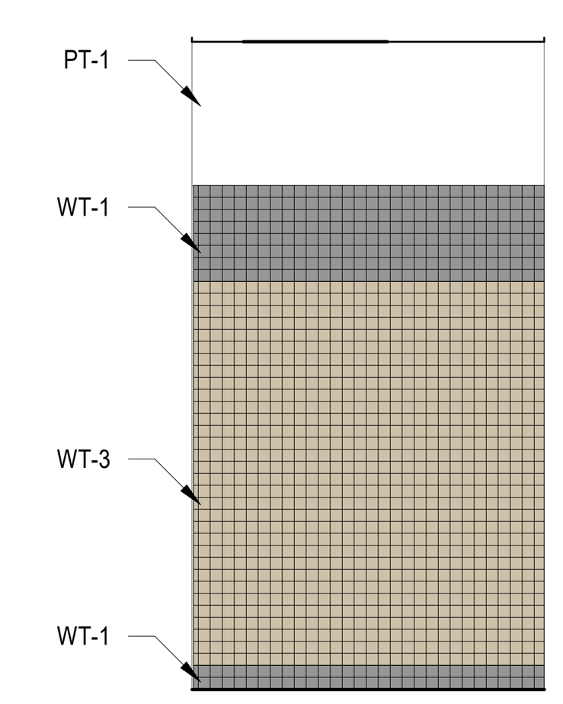
FOR BLUEBEAM LABELING OCR:
A-446
ENLARGED - RESTROOM ELEVATIONS



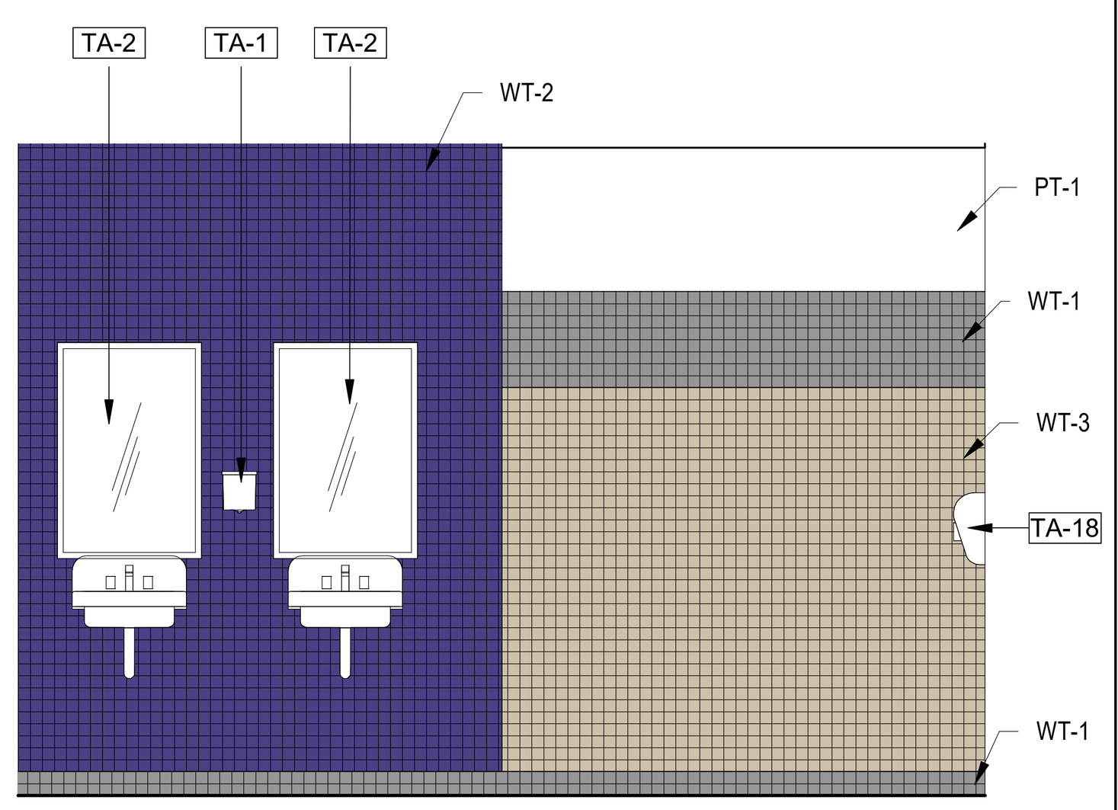
07 RESTROOM 1169 WEST 2
3/8" = 1'-0"



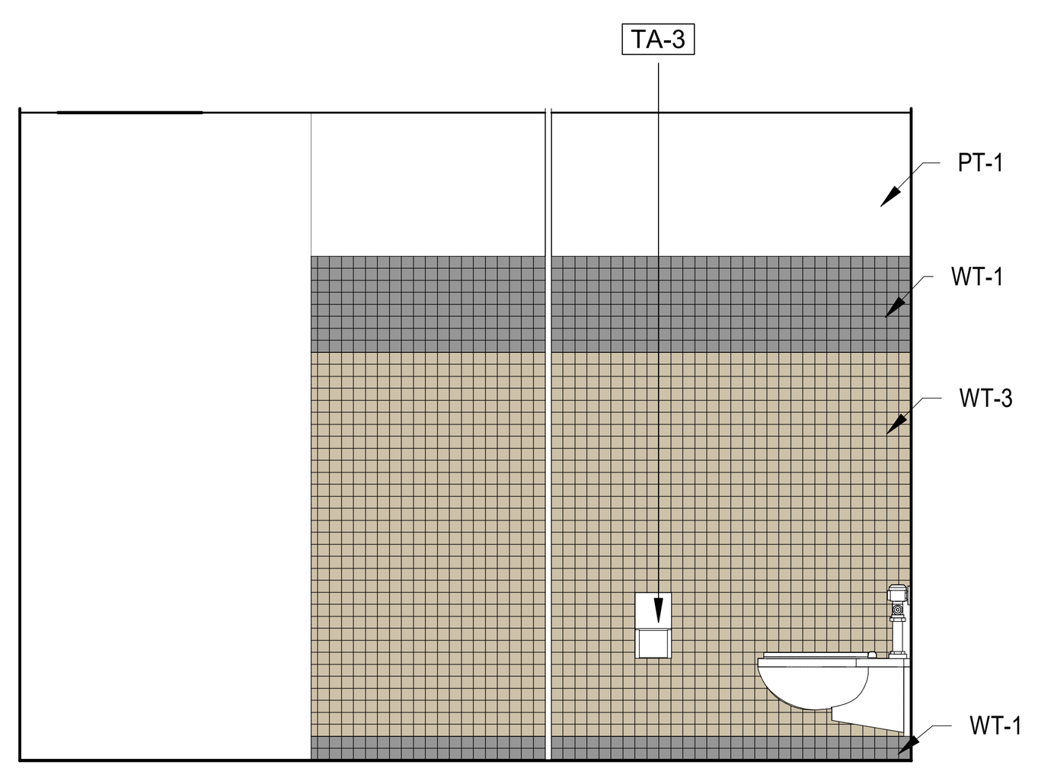
06 RESTROOM 1169 EAST 2
3/8" = 1'-0"



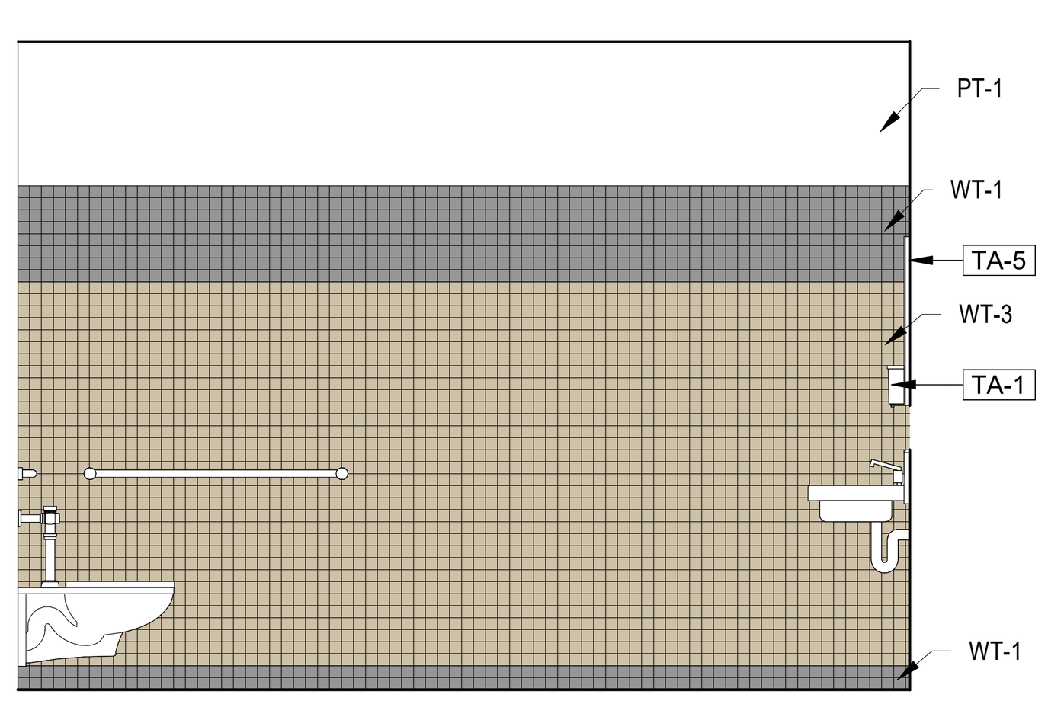
05 RESTROOM 1169 NORTH 2
3/8" = 1'-0"



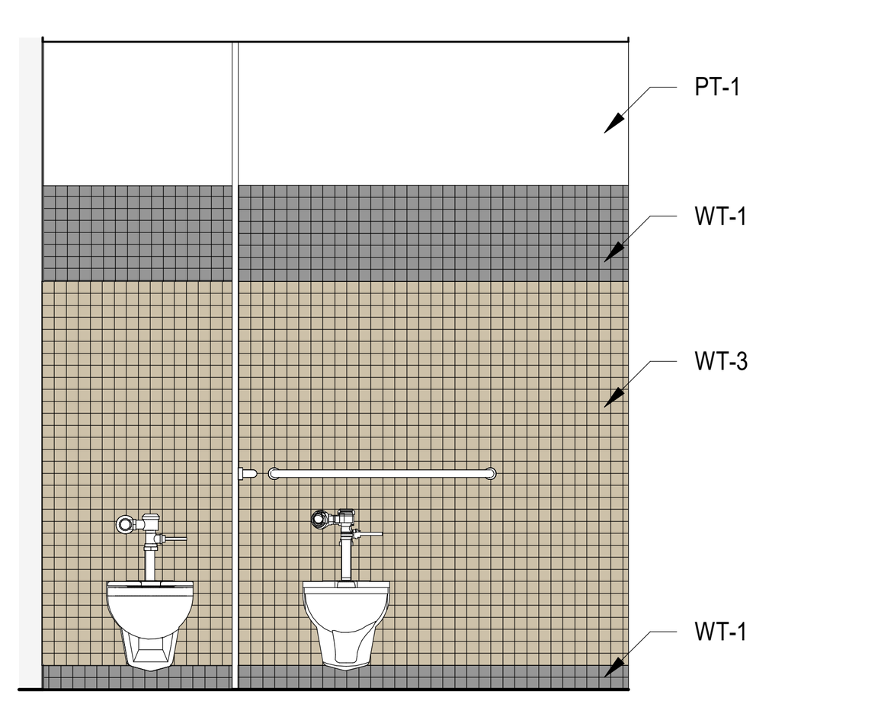
04 RESTROOM 1169 SOUTH
3/8" = 1'-0"



03 RESTROOM 1169 WEST
3/8" = 1'-0"



02 RESTROOM 1169 EAST
3/8" = 1'-0"



01 RESTROOM 1169 NORTH
3/8" = 1'-0"

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DRAWN BY:
Author
Plot Stamp:
1/15/2025 1:55:36 PM

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT · HUMBLE, TEXAS · HARRIS COUNTY

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT · GREGORY A. PRINCE · 27195 · STATE OF TEXAS
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

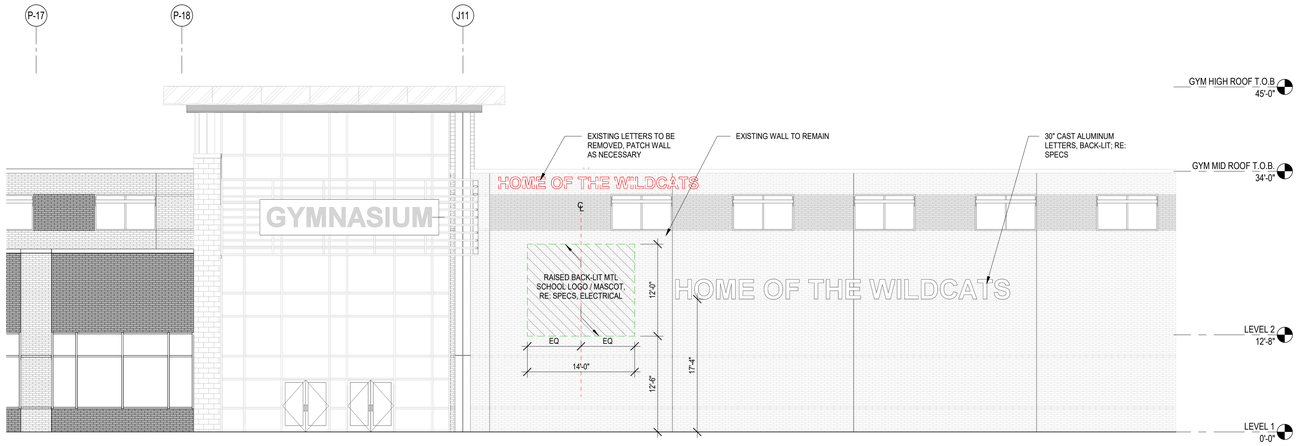
No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

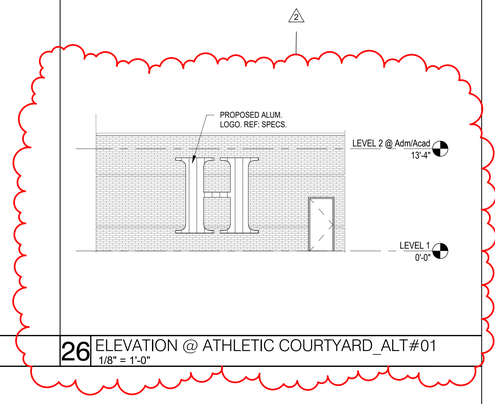
BUILDING NUMBER n/a

ENLARGED - RESTROOM ELEVATIONS

A-446



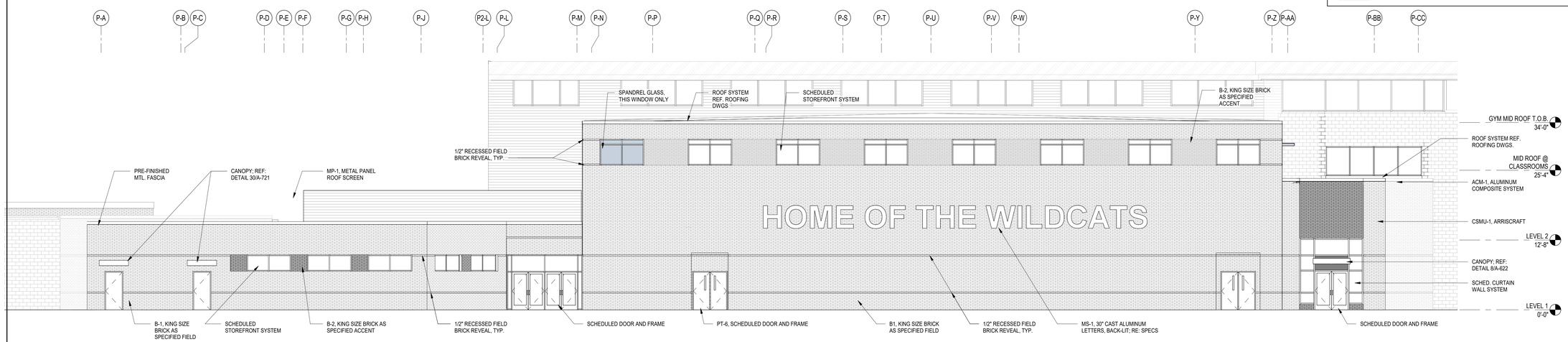
30 EXTERIOR ELEVATION AT AREA J.1 GYMNASIUM
1/8" = 1'-0"



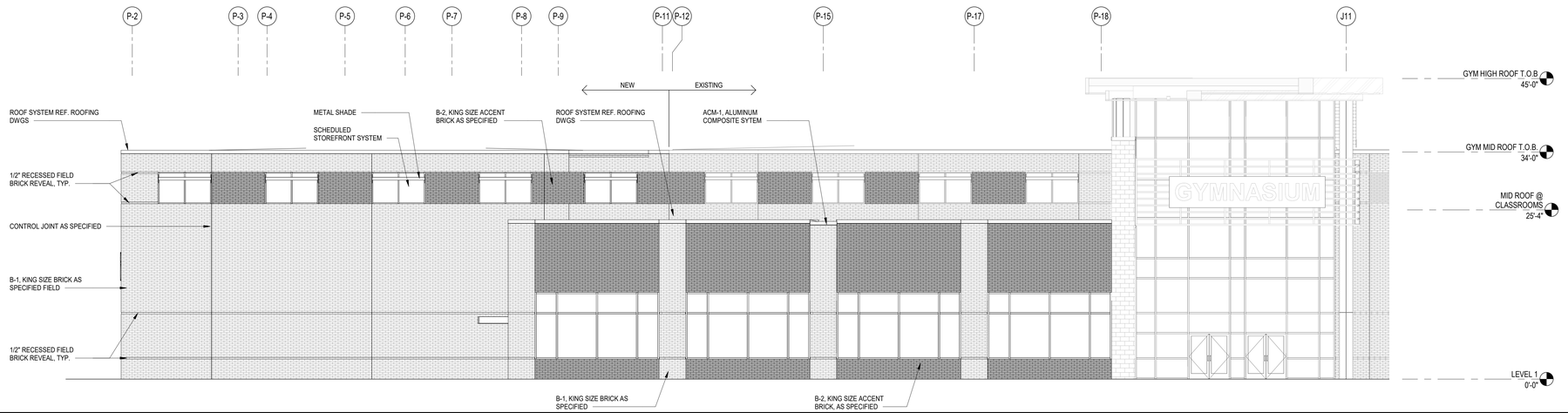
26 ELEVATION @ ATHLETIC COURTYARD_ALT#01
1/8" = 1'-0"

EXTERIOR MATERIALS LEGEND

- B1 - FIELD BRICK, KING
- B2 - ACCENT BRICK, KING
- CSMU-1 ARRISCRAFT
- MP-1 CORRUGATED METAL PANEL
- MP-2 PANEL - WITHOUT GROOVES
- ACM-1 ALUM. PANEL
- ACM-2 ALUM. PANEL COLUMN COVERS
- EGPL-1 ALUM. PANEL WOOD LOOK SOFFIT
- VISION GLASS
- SPANDREL GLASS



18 WEST ELEVATION - AREA J
1/8" = 1'-0"



06 SOUTH ELEVATION AREA J
1/8" = 1'-0"

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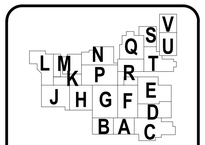
713-965-3355

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338

ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT HUMBLE, TEXAS HARRIS COUNTY



KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

12/18/2024

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HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

ELEVATIONS - EXTERIOR

A-501

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/A#23 220537 HISD HHS Phase 2.rvt
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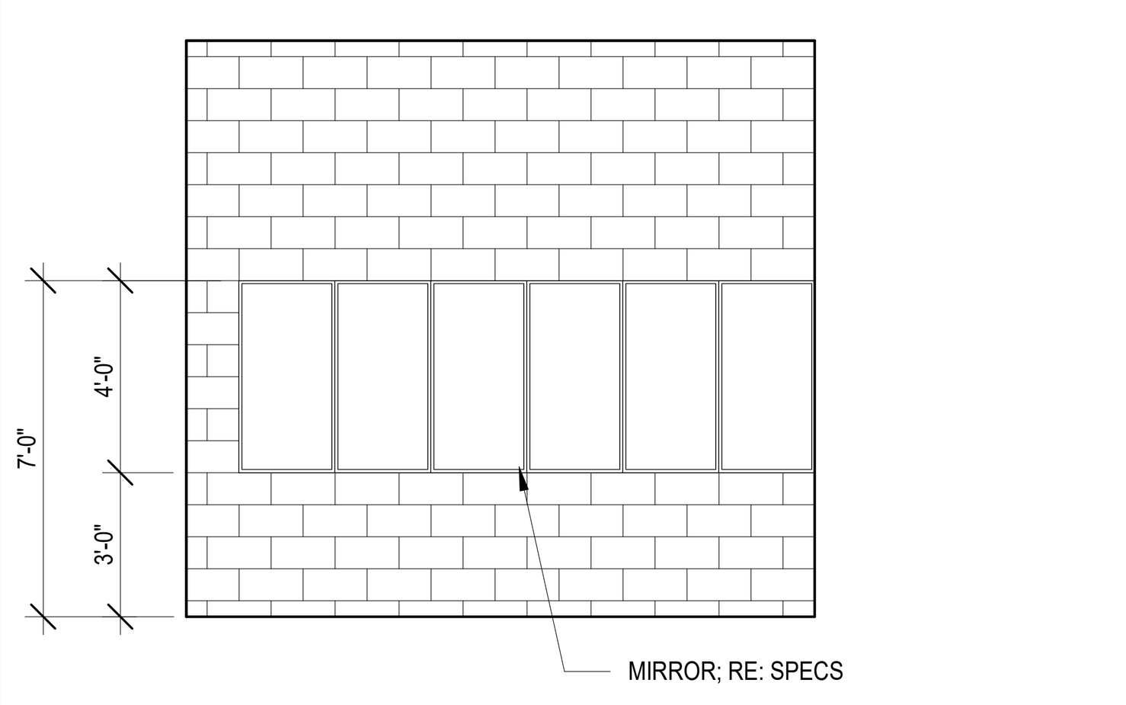
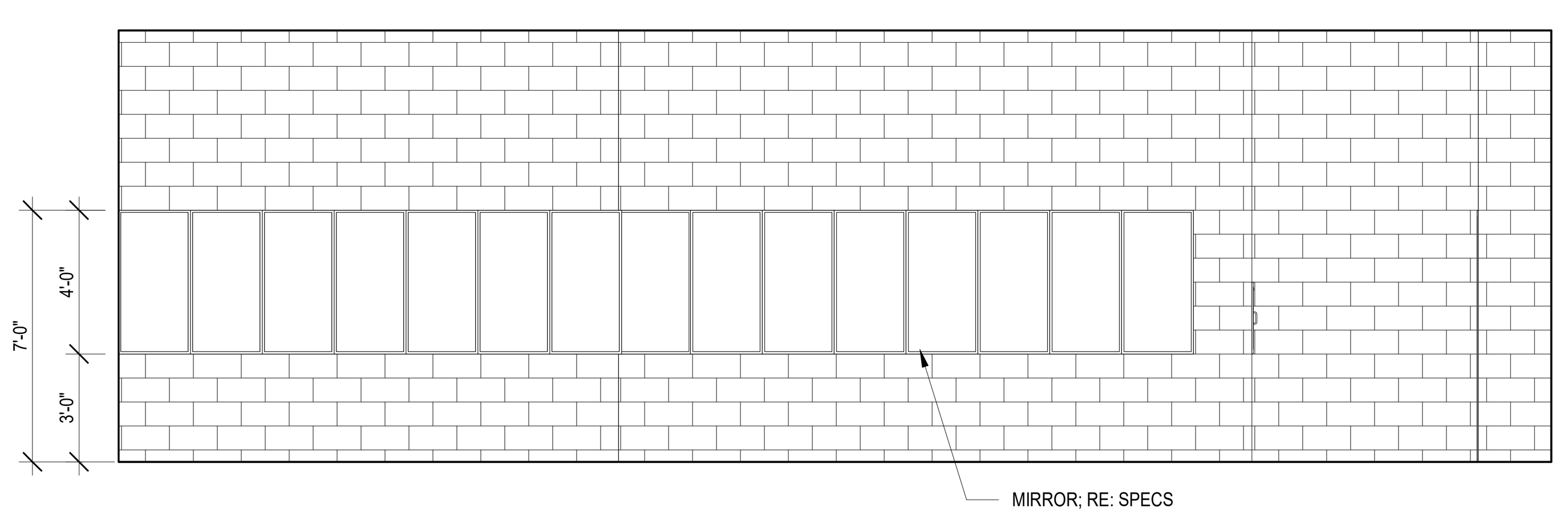
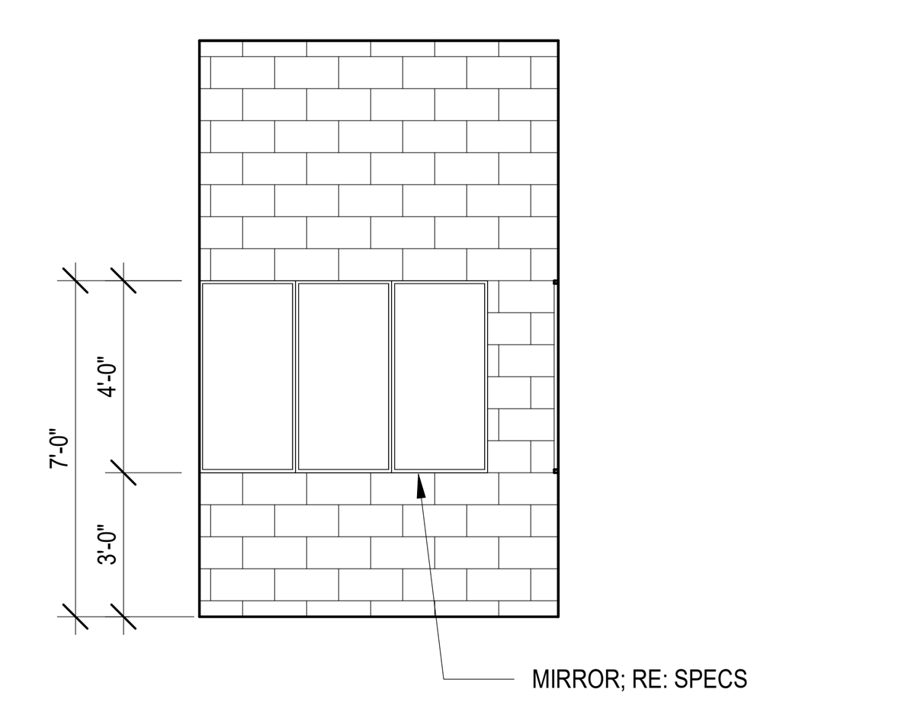
Plot Stamp: 1/16/2025 5:18:34 PM



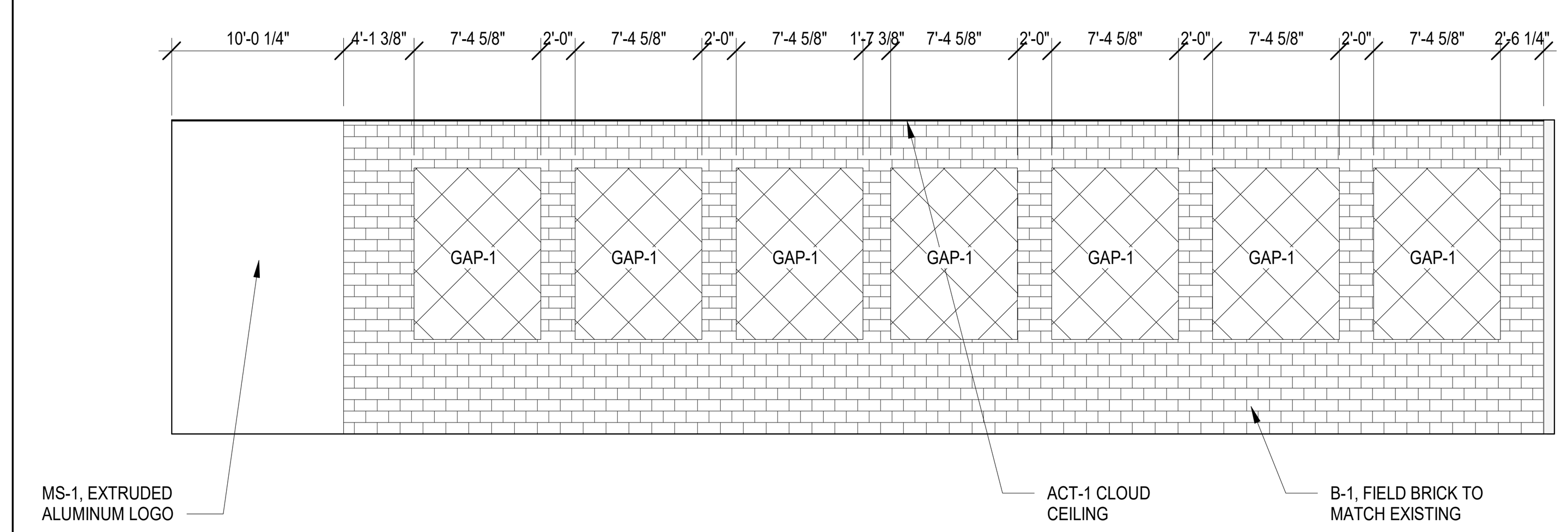
30 AUX WEIGHT ROOM 4146 ELEVATION
1/4" = 1'-0"



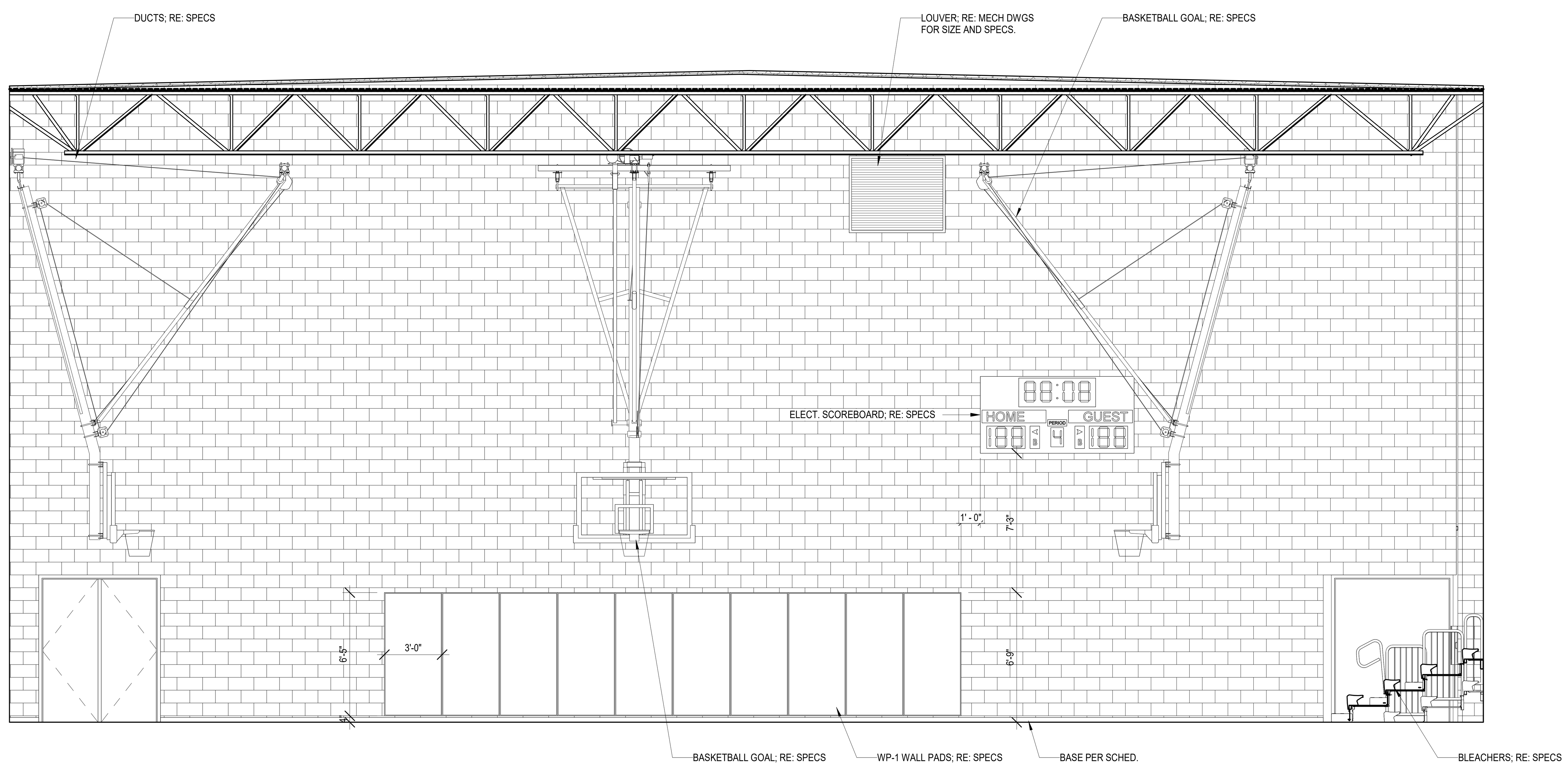
29 AUX WEIGHT ROOM 4146 ELEVATION
1/4" = 1'-0"



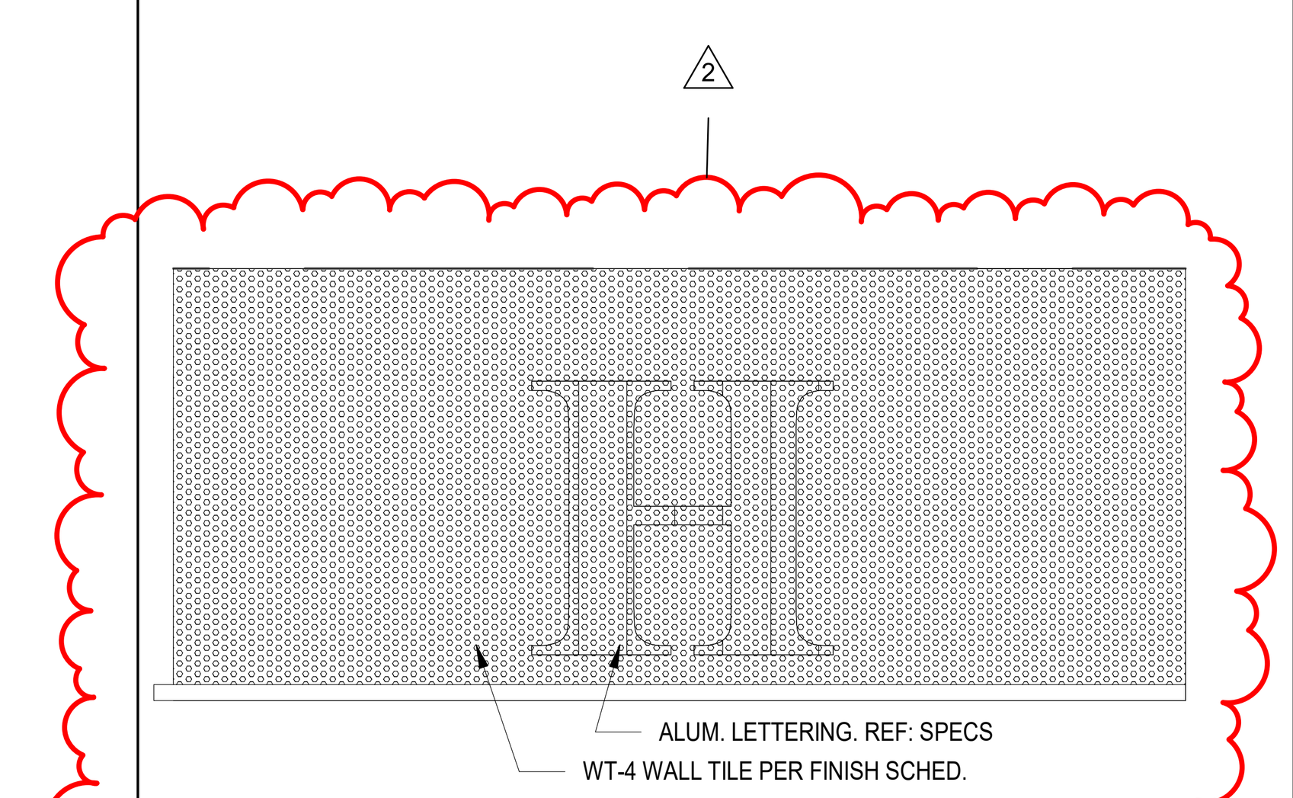
27 AUX WEIGHT ROOM 4146 ELEVATION
1/4" = 1'-0"



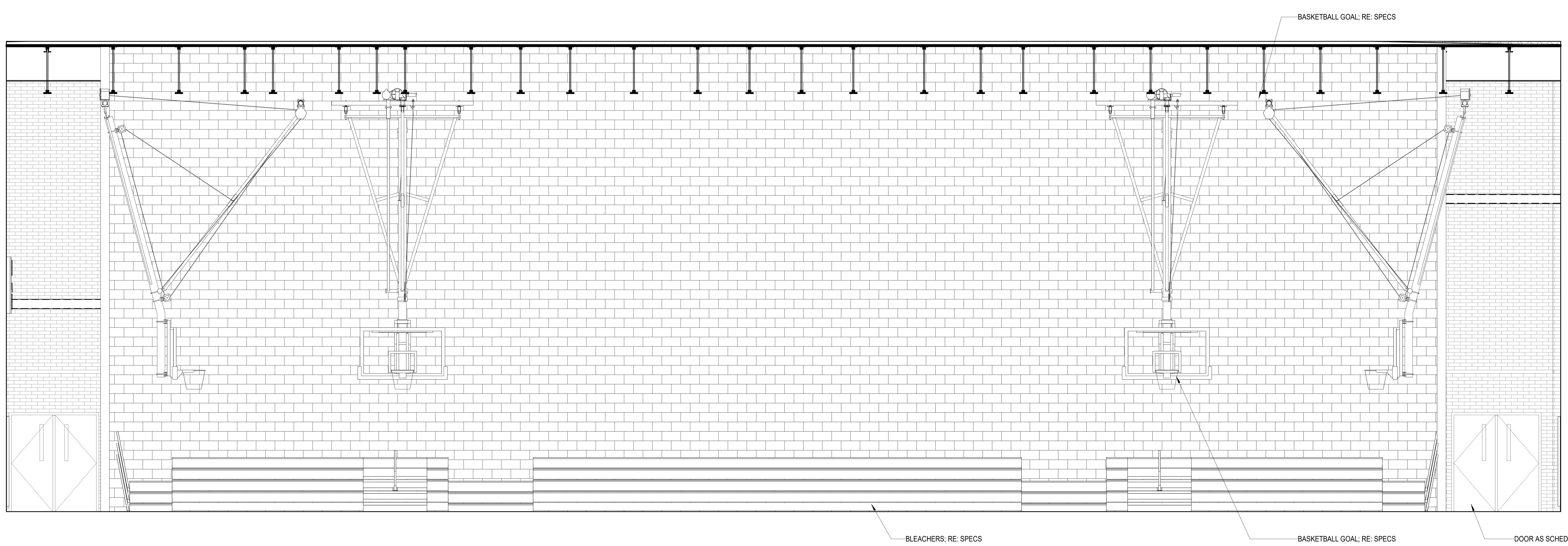
26 4132 LOBBY EXTENSION - NORTH
1/8" = 1'-0"



18 AUX GYM 2 4133 NORTH ELEVATION
1/4" = 1'-0"



07 ELEVATION @ FLEX LOUNGE_ALT. #07
1/4" = 1'-0"



06 AUX GYM 2 4133 EAST ELEVATION
1/4" = 1'-0"

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HOUSTON
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713-961-4571 F
TX Firm: F-1608
PBK.com

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

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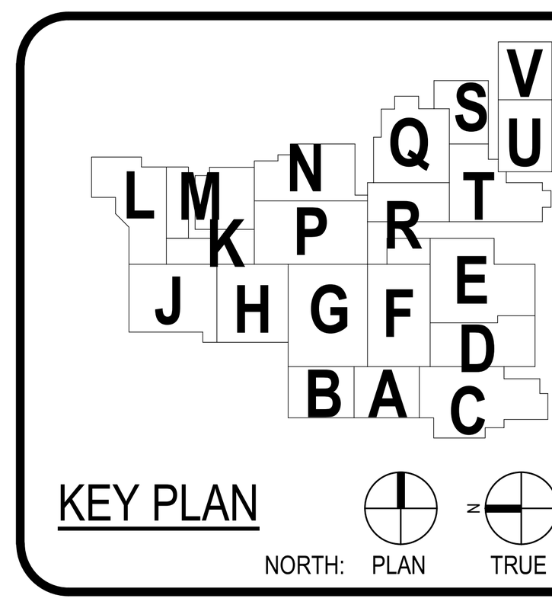

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

12/18/2024

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DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

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BUILDING NUMBER n/a

ELEVATIONS - INTERIOR

A-527

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

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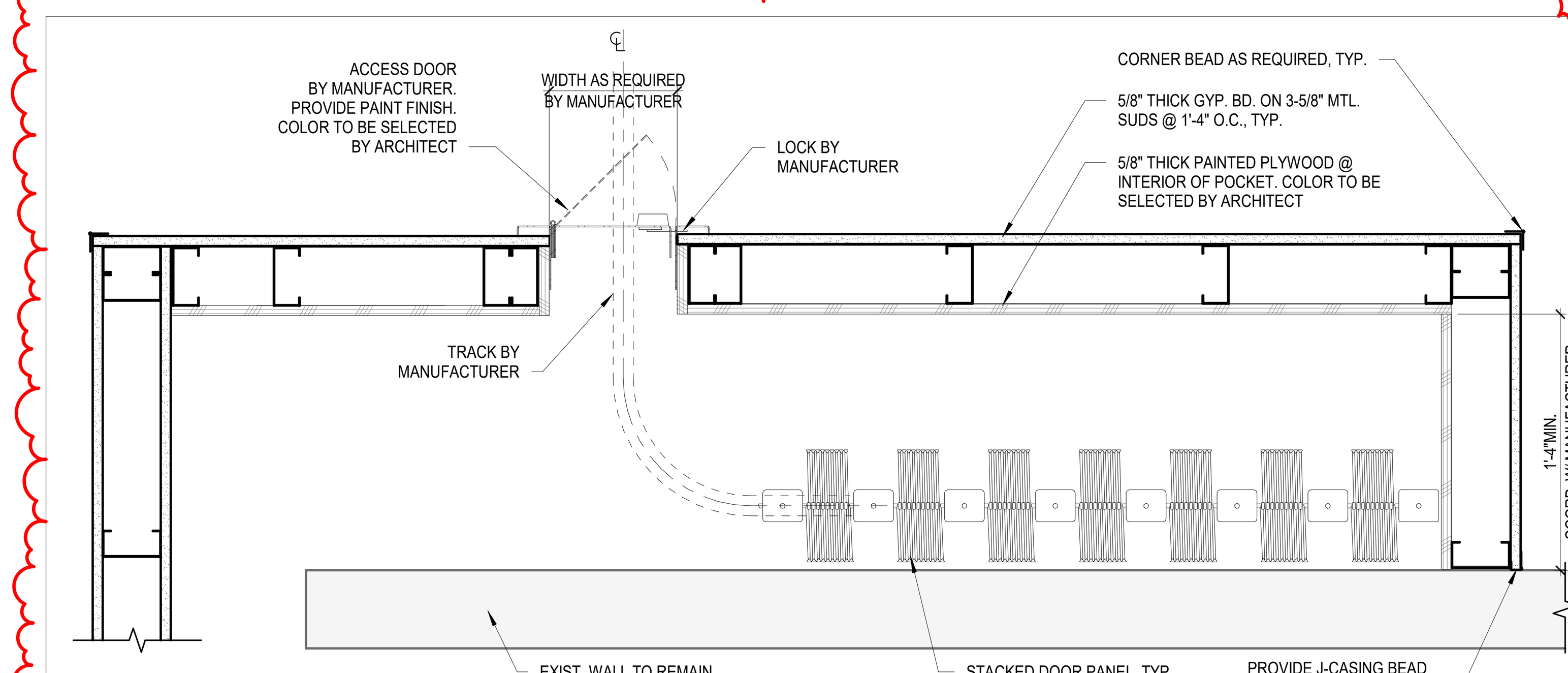
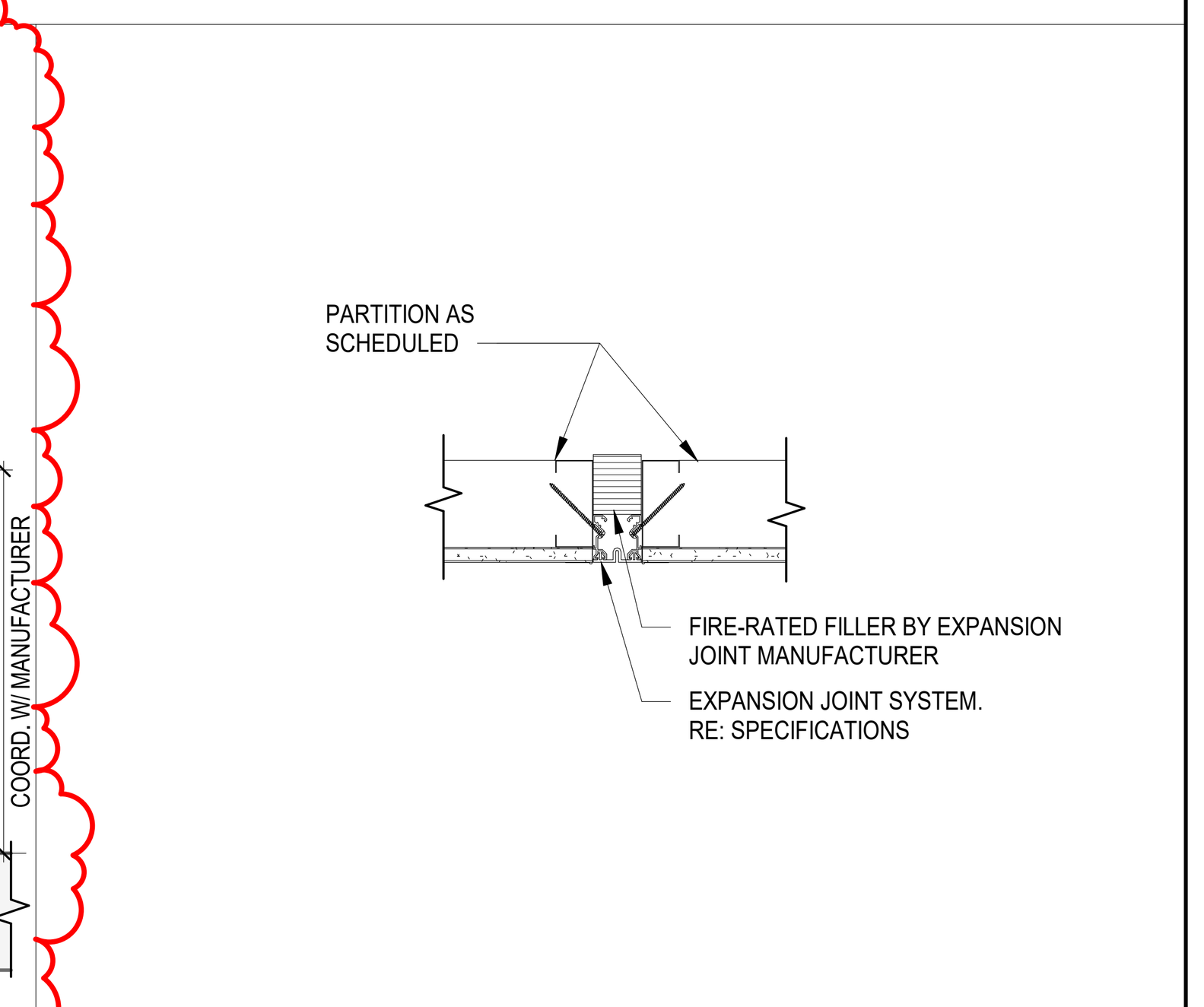
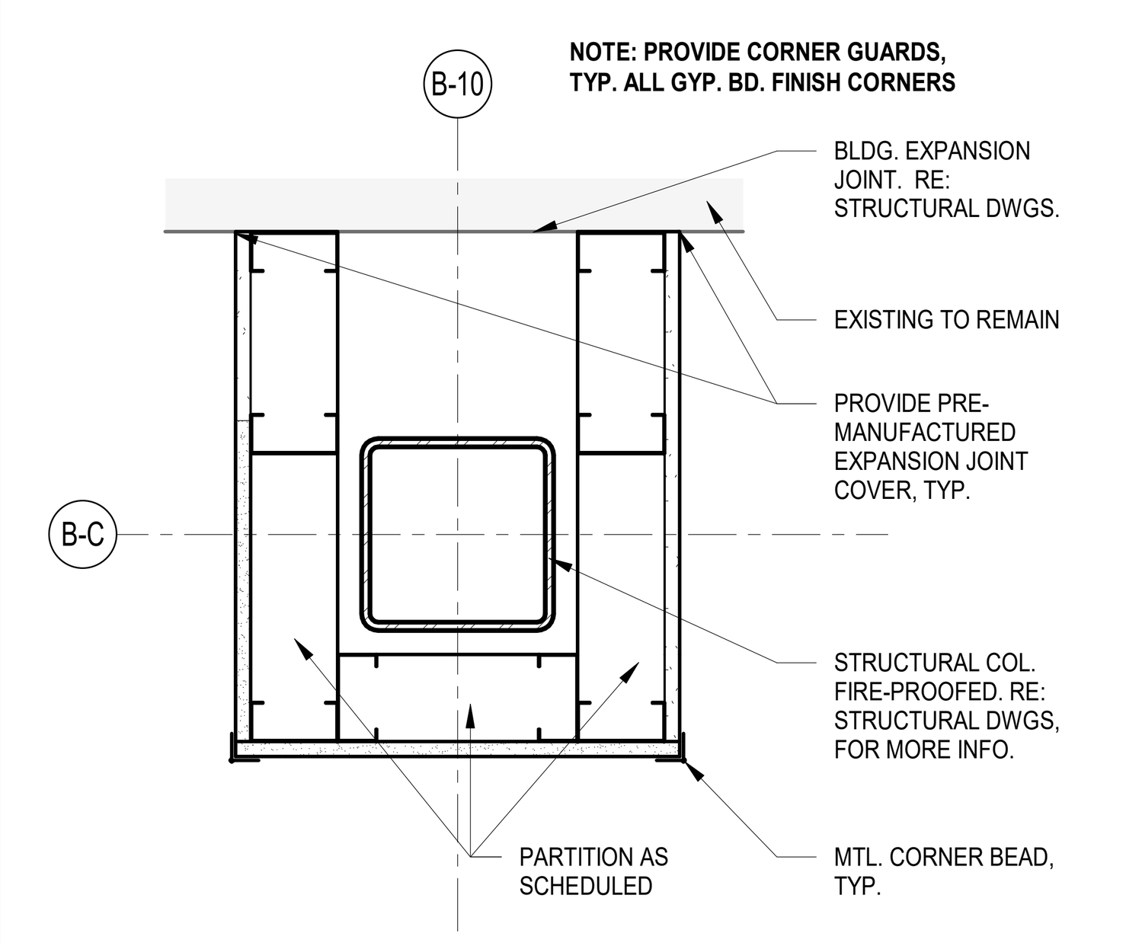
DETAILS - PLAN INTERIOR
A-710
FOR BLUEBEAM LABELING/OCR:



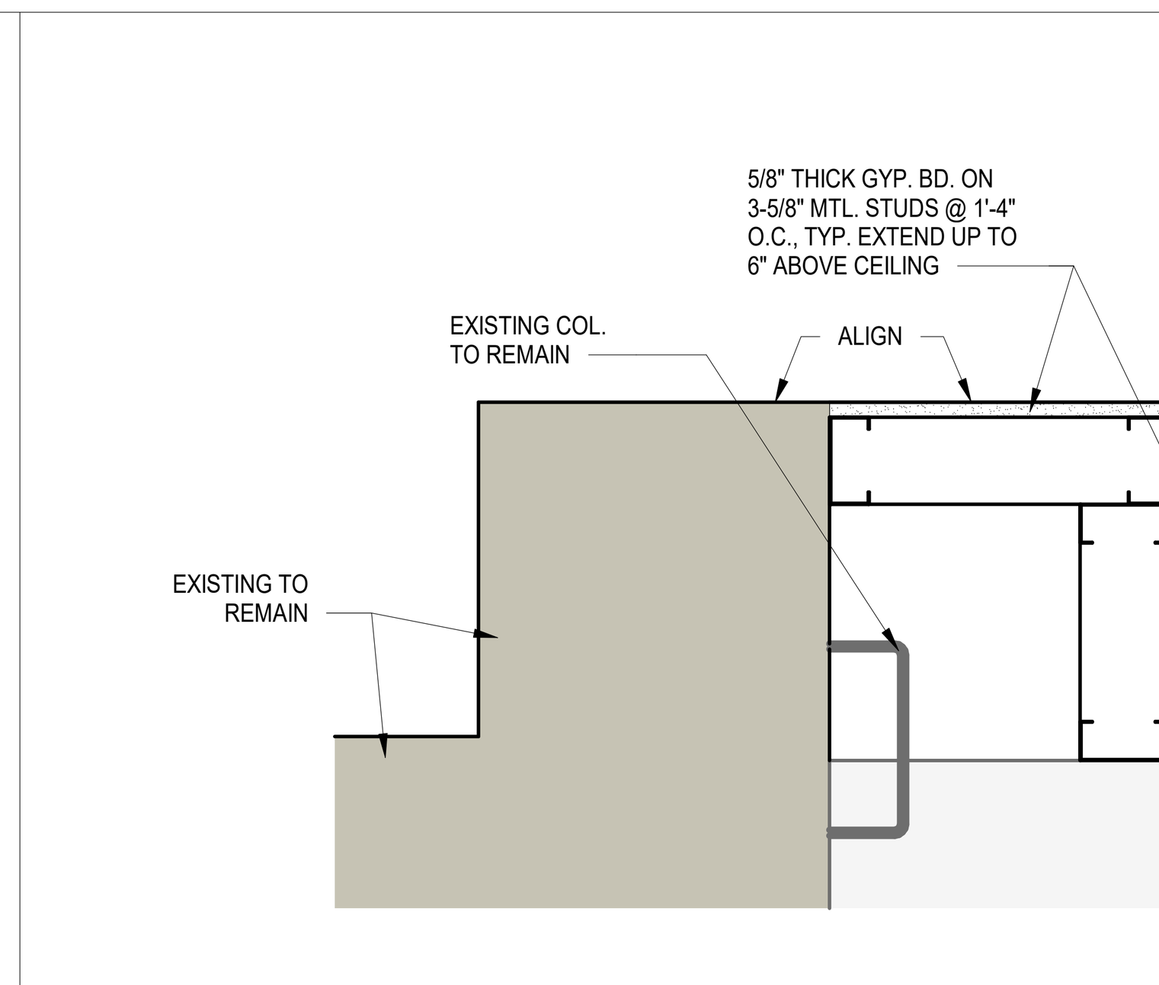
15 SLIDING DOOR POCKER DETAIL
1 1/2" = 1'-0"



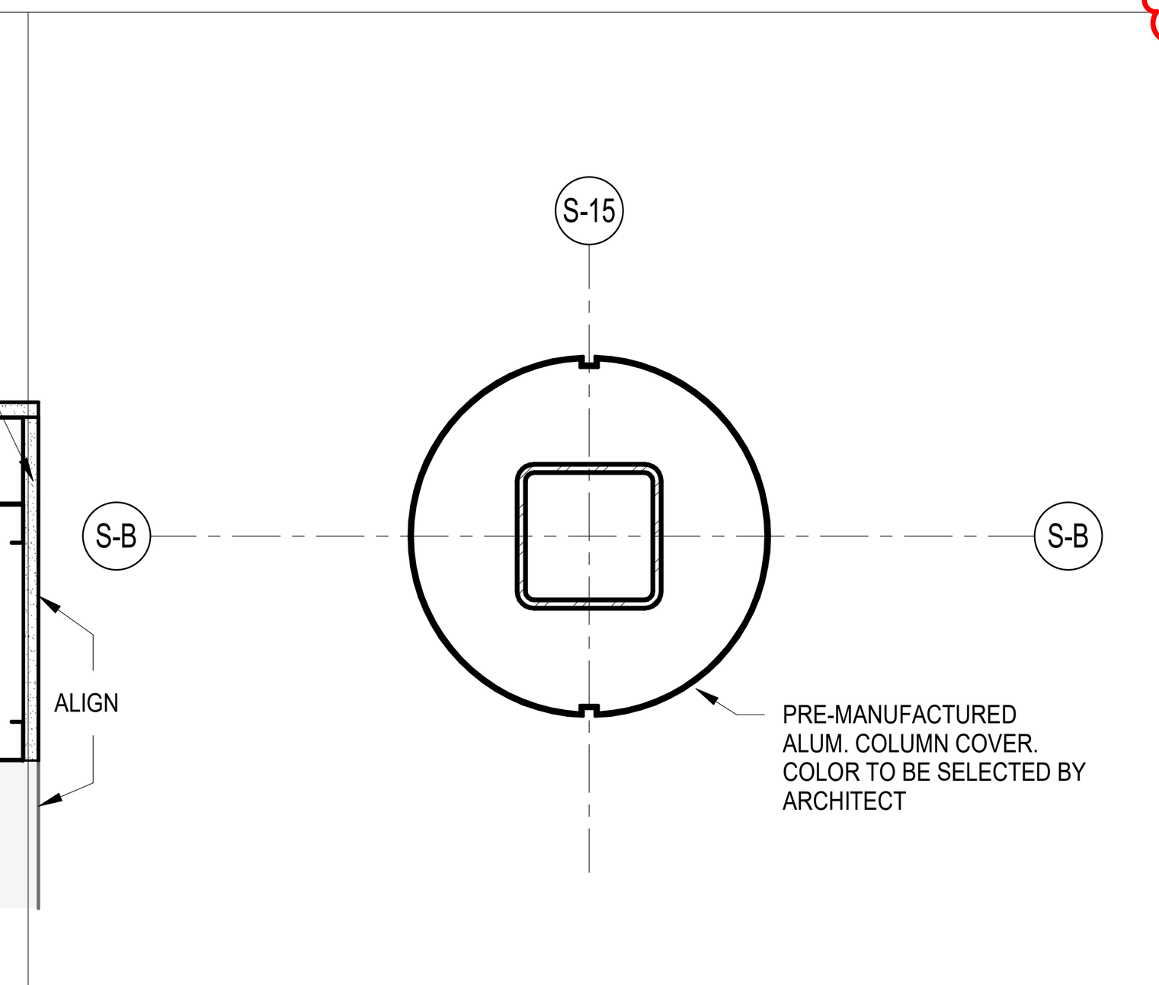
13 TYP. WALL TO WALL EXPANSION JOINT DET.
1 1/2" = 1'-0"



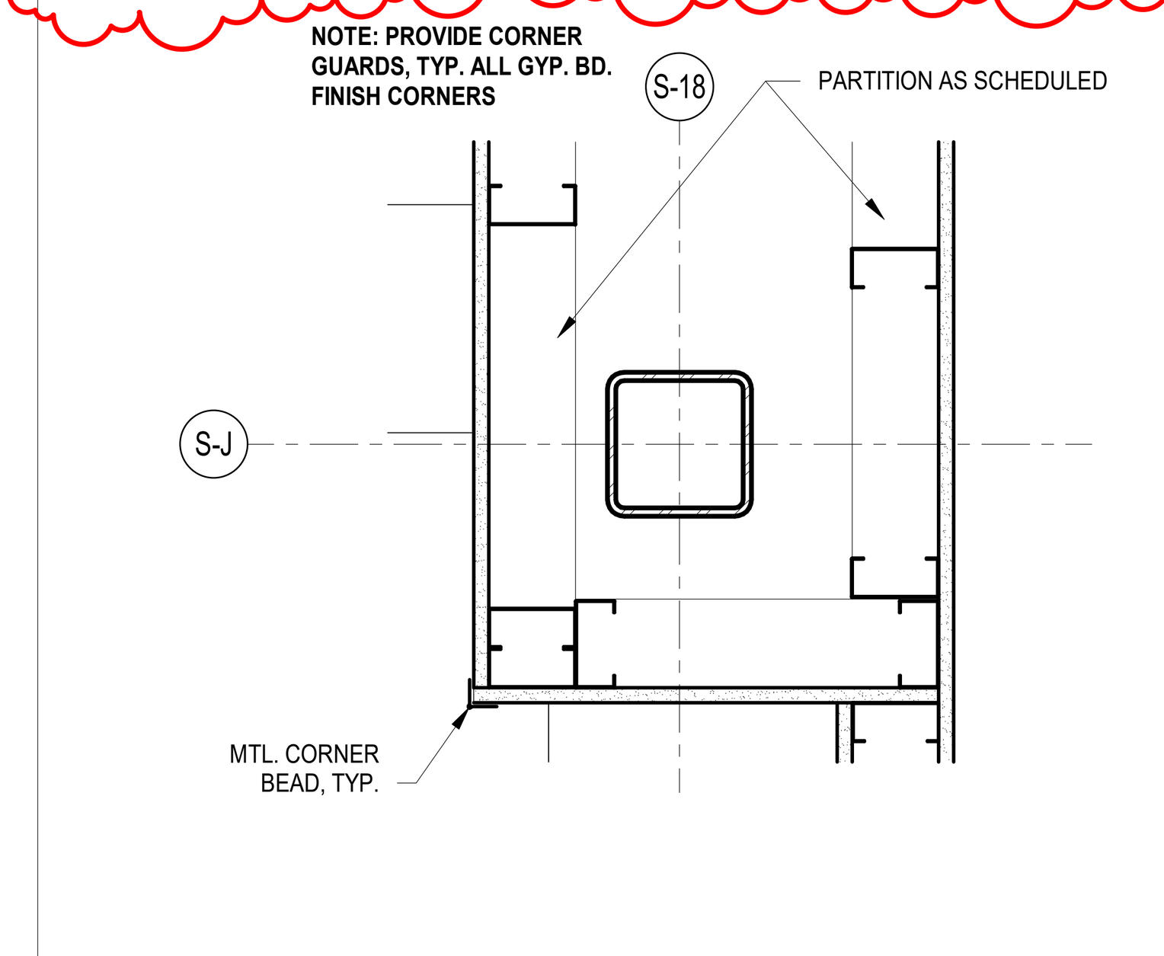
12 PLAN DETAIL @ AREA B
1 1/2" = 1'-0"



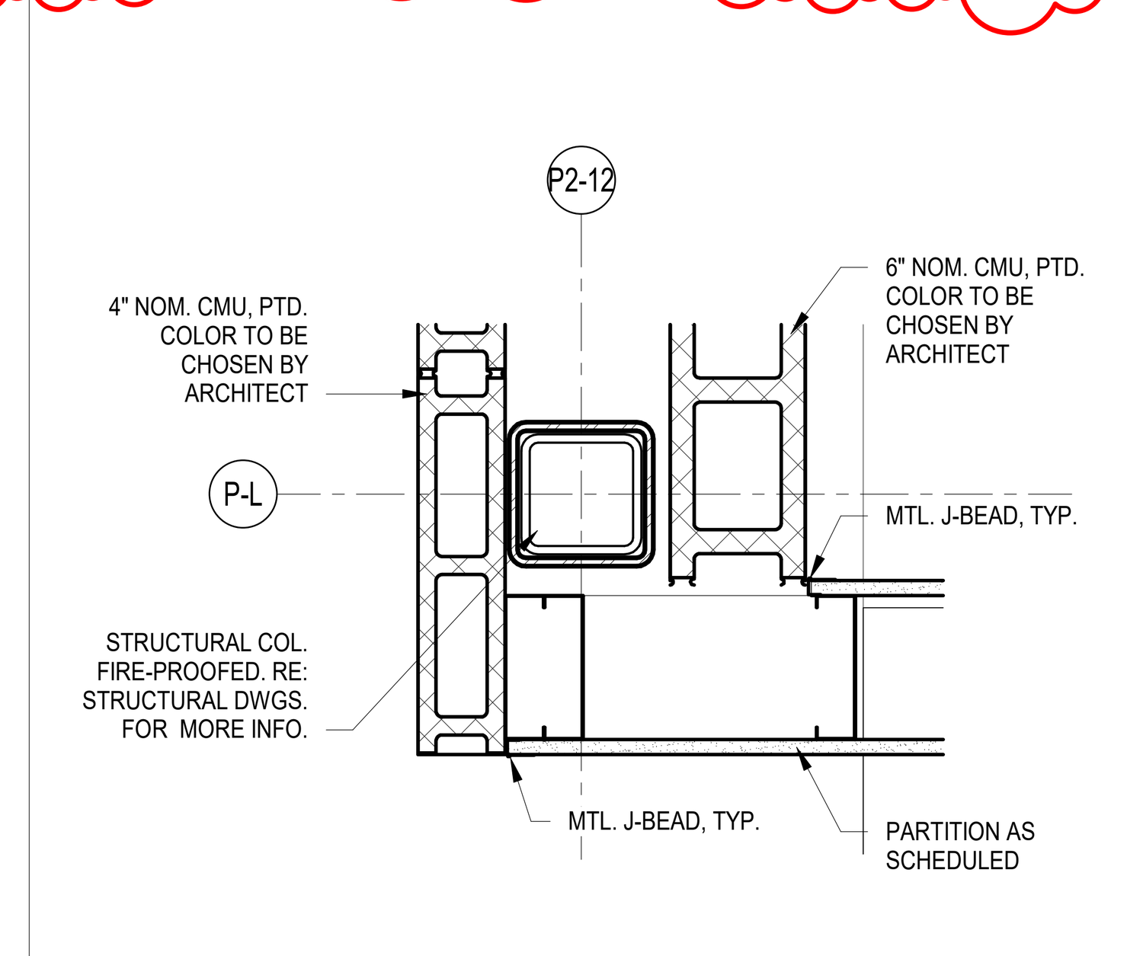
11 PLAN DETAIL @ AREA H
1 1/2" = 1'-0"



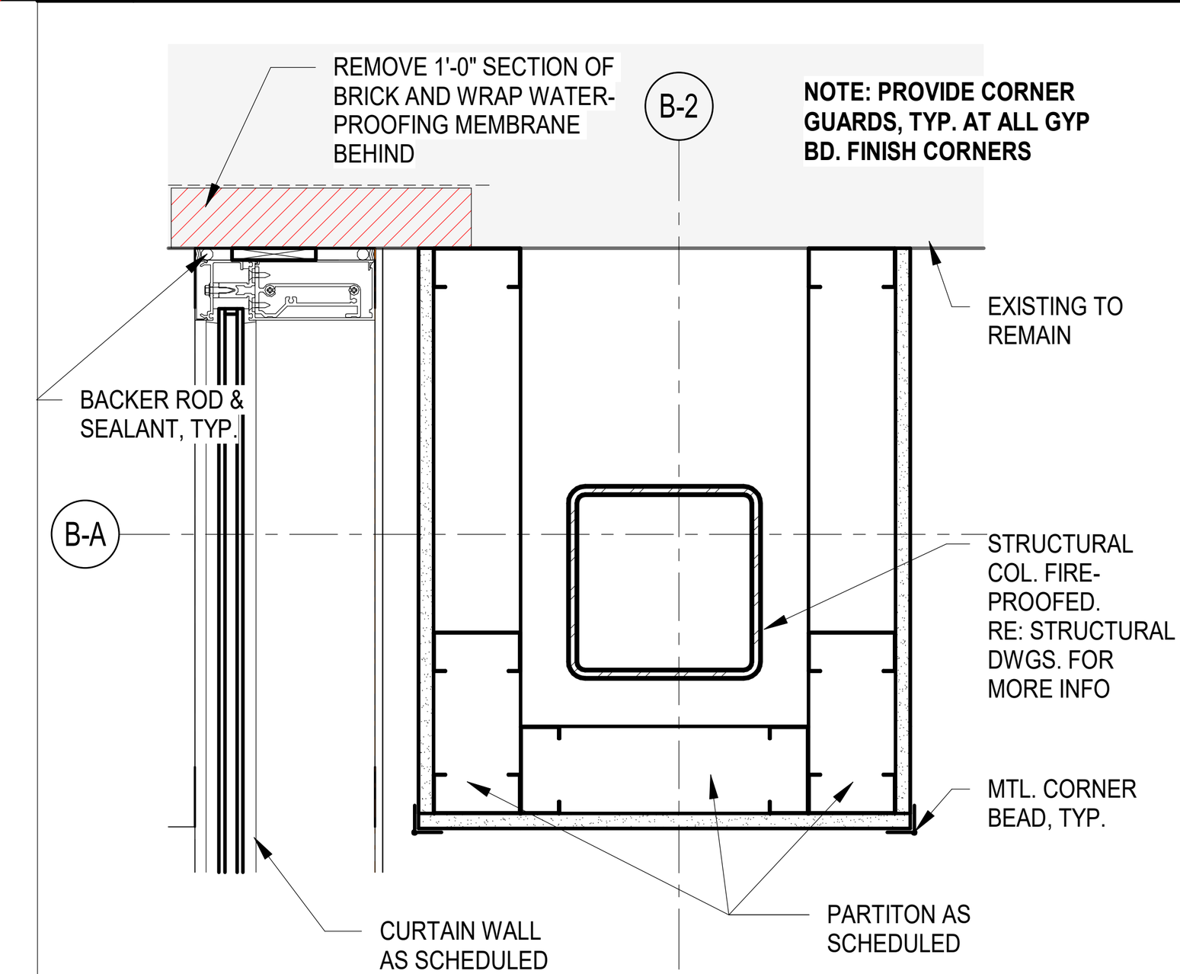
10 PLAN DETAIL @ AREA S
1 1/2" = 1'-0"



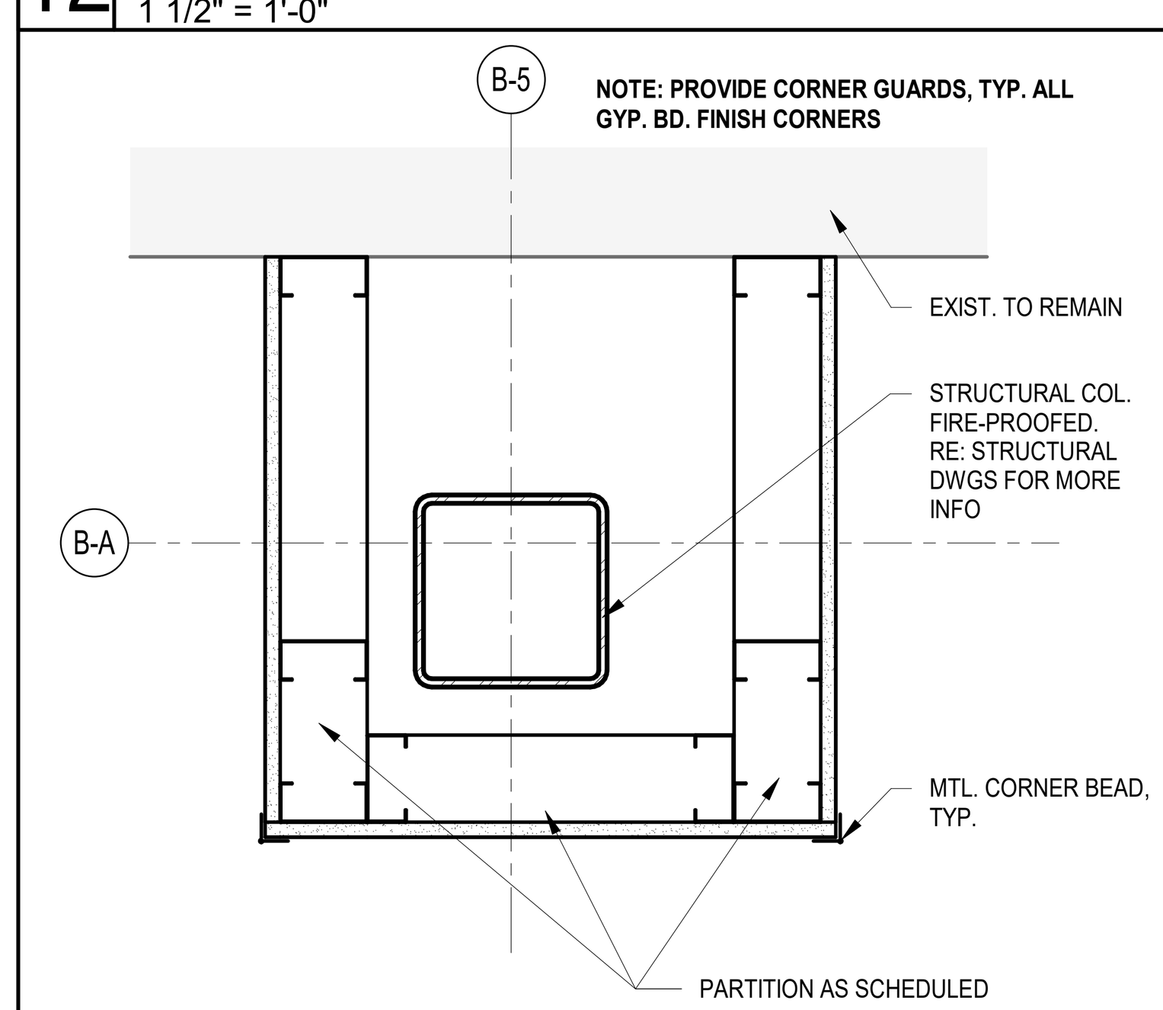
9 PLAN DETAIL @ AREA S
1 1/2" = 1'-0"



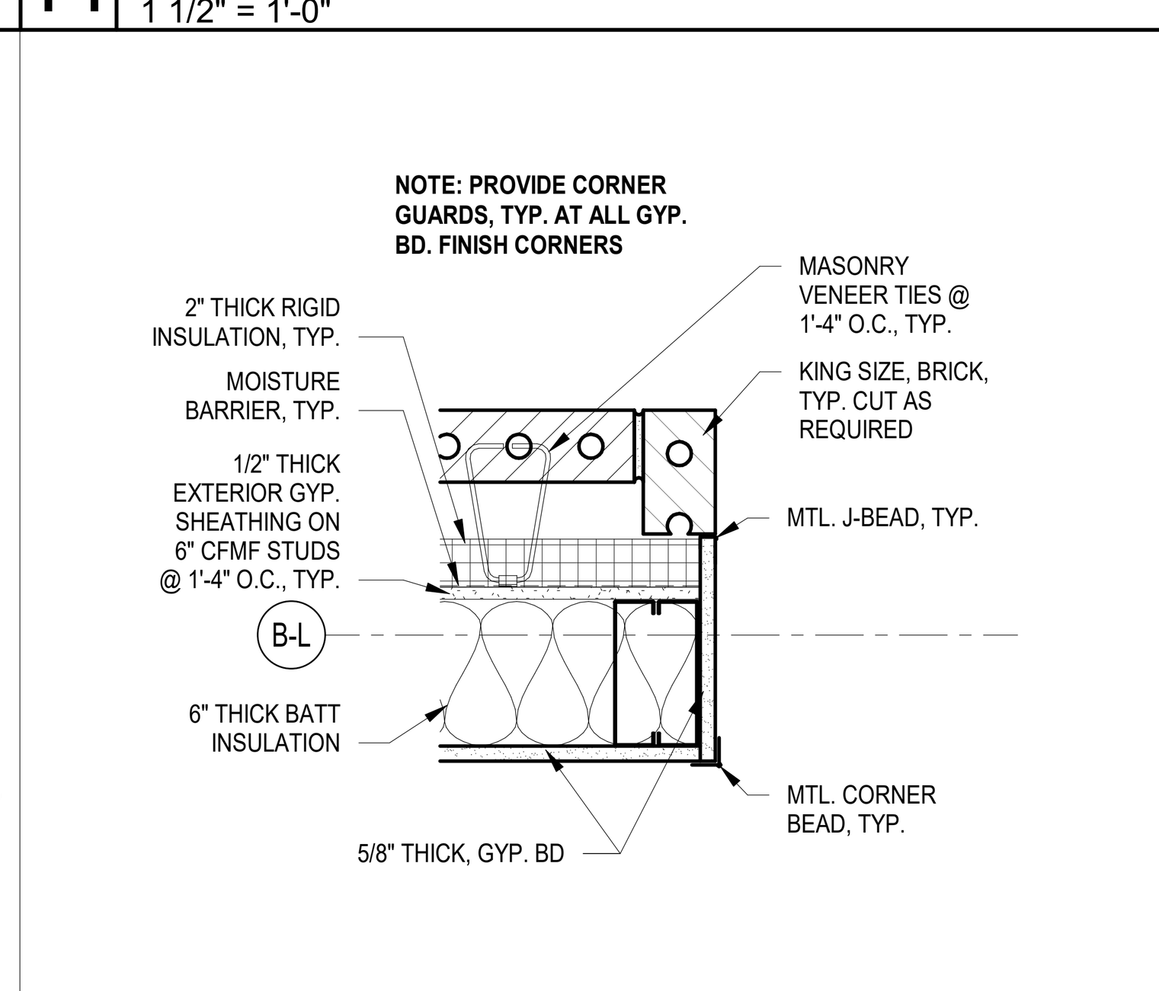
8 PLAN DETAIL @ AREA K
1 1/2" = 1'-0"



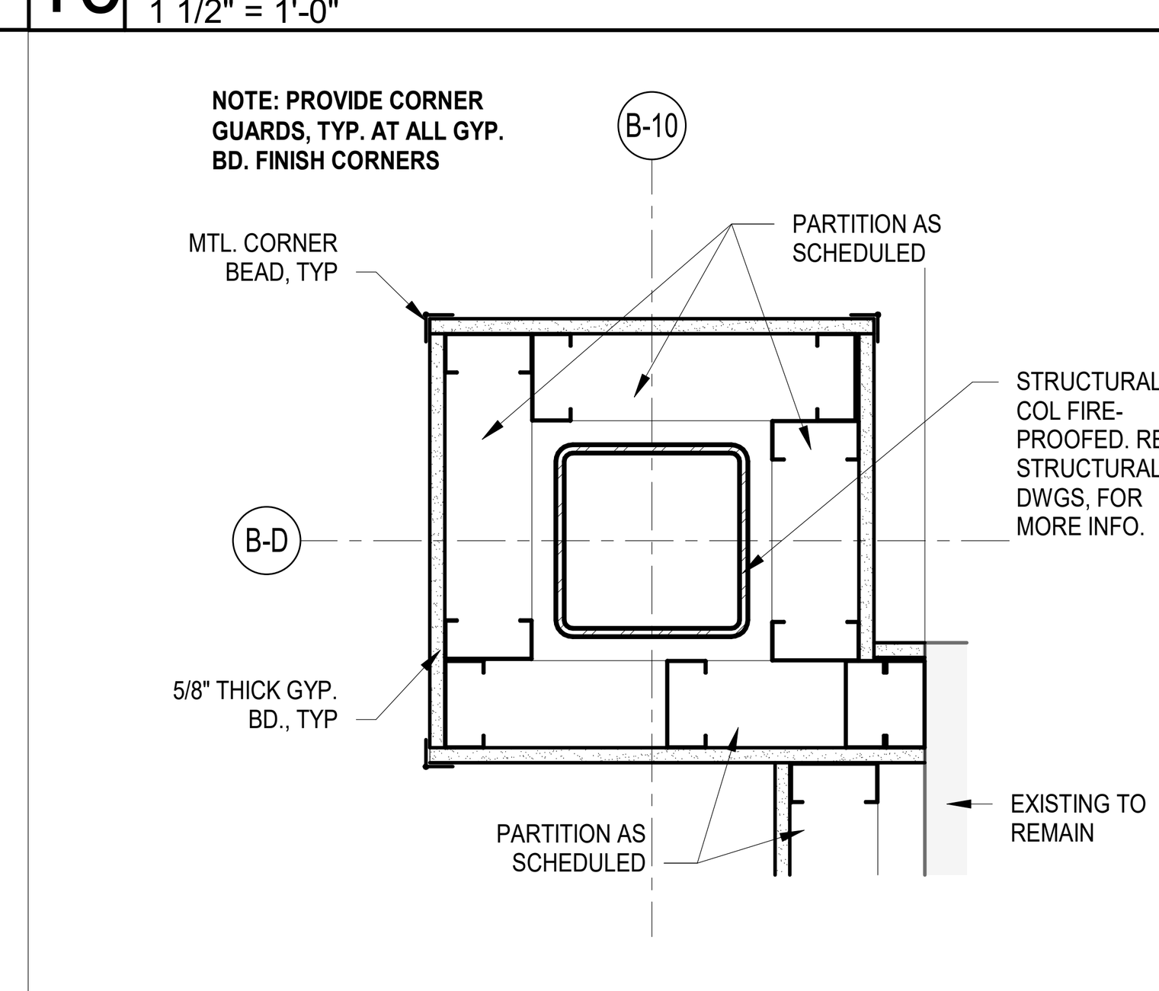
7 PLAN DETAIL @ AREA H
1 1/2" = 1'-0"



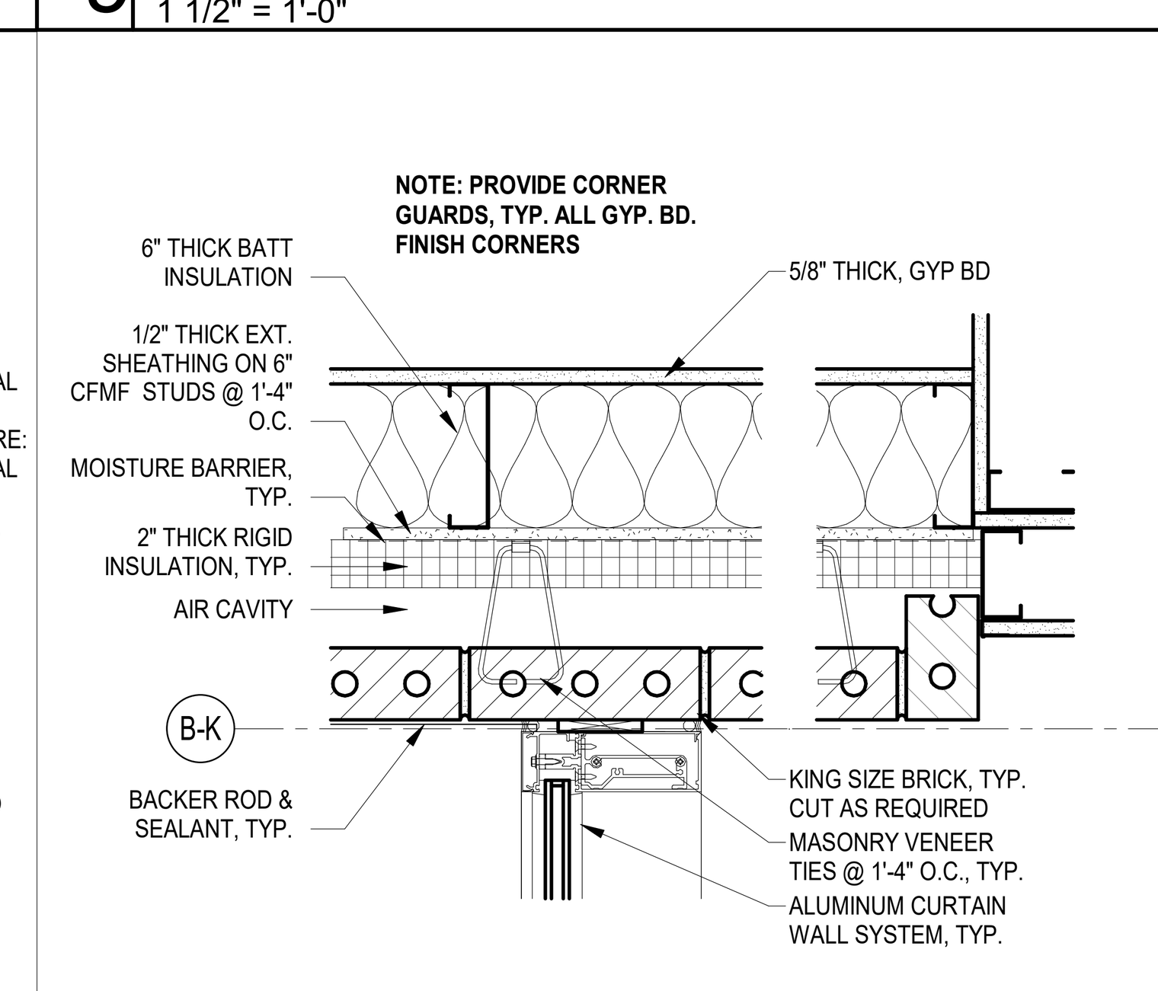
6 PLAN DETAIL @ AREA H
1 1/2" = 1'-0"



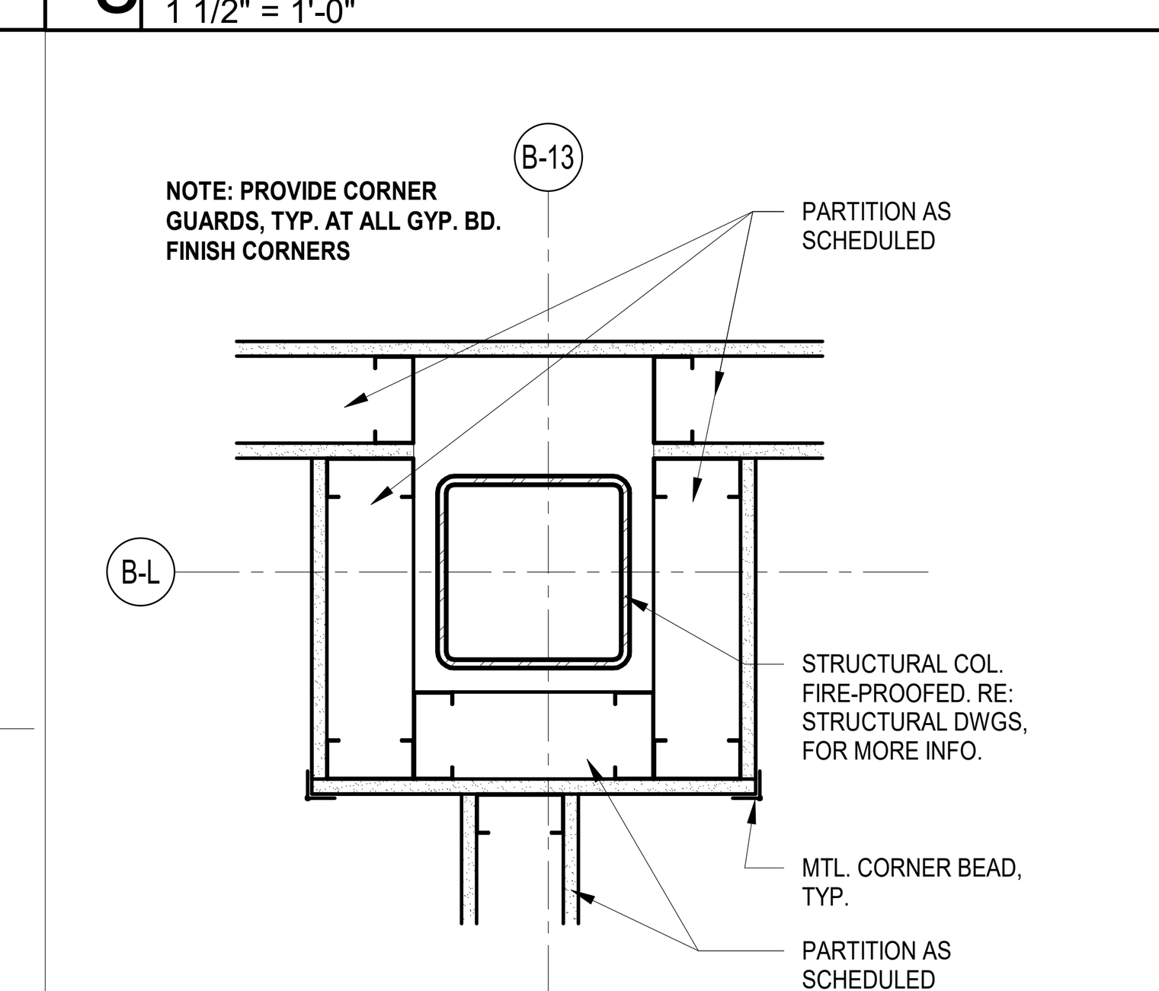
5 PLAN DETAIL @ AREA B
1 1/2" = 1'-0"



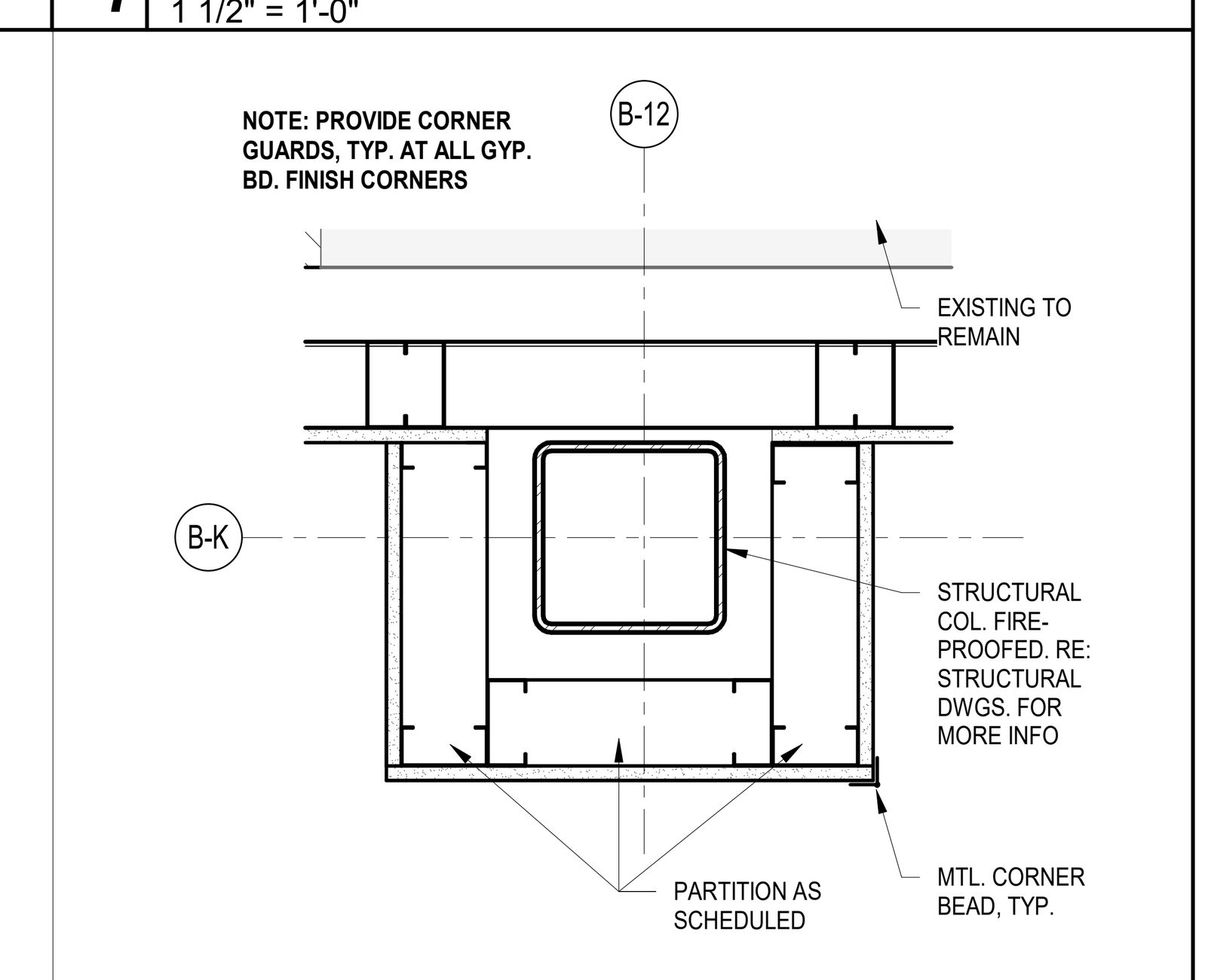
4 PLAN DETAIL @ AREA B
1 1/2" = 1'-0"



3 PLAN DETAIL @ AREA B
1 1/2" = 1'-0"



2 PLAN DETAIL AREA B
1 1/2" = 1'-0"



1 PLAN DETAIL @ AREA H
1 1/2" = 1'-0"

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

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1/10/2025 3:43:44 PM

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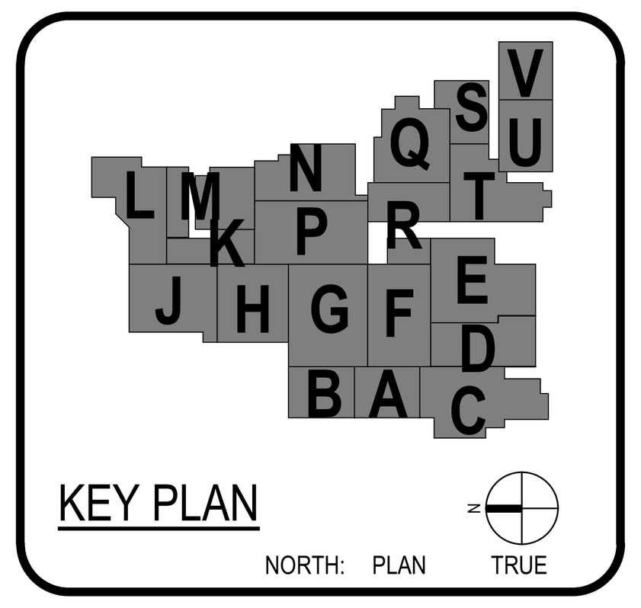
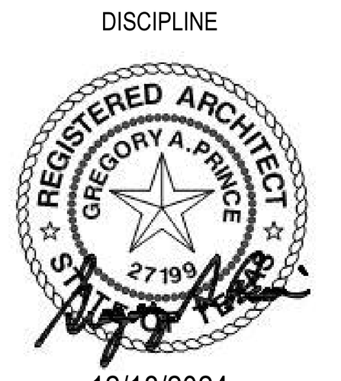


DISCIPLINE



12/18/2024

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HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

DETAILS - PLAN INTERIOR

A-710

ROOM FINISH SCHEDULE AREA B

ROOM DATA				WALL FINISHES				CEILINGS	
№	NAME	FLOOR FINISH	BASE FINISH	NORTH	EAST	SOUTH	WEST	FINISH	COMMENTS
1043	MECH	CS-1	RB-1	PT-1	PT-1	PT-1	PT-1	EXPOSED STRUCTURE	
1100	CORRIDOR	PFT-1/ PFT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	PT-1 TO TOP OF DOOR FRAMES, TYP.
1115	SCIENCE CLASSROOM 01	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
1116	PREP	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
1116C	CHEMICAL STORAGE	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
1117	SCIENCE CLASSROOM 02	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
1118	GIRLS	PFT-5	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	GWB-1	
1119	BOYS	PFT-5	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	GWB-1	
1120	STORAGE	2 CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
1121	CLASSROOM 01	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
1122	CLASSROOM 02	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
1123	CLASSROOM 03	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
1124	CLASSROOM 04	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
1125	CLASSROOM 05								
1126	STAIR	PFT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
1128	FDC	CS-1	RB-1	PT-1	PT-1	PT-1	PT-1	EXPOSED STRUCTURE	
1129	STORAGE								
1164	LIFE SKILLS	CPT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	

06 1ST LEVEL - FINISH PLAN - AREA B
1/8" = 1'-0"

GENERAL FINISH LEGEND NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. 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.
4. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.
5. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
6. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
7. PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
8. PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL U.N.O.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
10. ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE U.N.O.
11. ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
12. PAINT ALL HOLLOW METAL DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.

FINISH SCHEDULE REMARKS

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

PAINT ALL NEW NON-FACTORY FINISHED EXPOSED METAL.

PAINT ALL NEW H.M. DOORS U.N.O.

1. REFER TO FLOOR PATTERN PLANS
2. REFER TO INTERIOR ELEVATIONS
3. REFER TO CEILING PLANS
4. 48"H STAINLESS STEEL WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES
5. PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
6. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
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8. HOLD-DOWN CLIPS AT SUSP. LAY-IN CEILING SYSTEM WITHIN 8'-0" MIN. ANY DIRECTION FROM AN EXTERIOR DOOR LOCATION

FINISH FLOOR LEGEND

- CS-1, SEALED CONCRETE *RE: FINISH SCHEDULE*
- SC-1, STAINED CONCRETE *RE: FINISH SCHEDULE*
- WF-1, GYM WOOD FLOORING *RE: FINISH SCHEDULE*
- CPT-1, CARPET TYPE 1 *RE: FINISH SCHEDULE*
- CPT-2, CARPET TYPE 2 *RE: FINISH SCHEDULE*
- CPT-3, WALK OFF CARPET *RE: FINISH SCHEDULE*
- PFT-1 PORCELAIN FLOOR TILE *RE: FINISH SCHEDULE*
- PFT-2 PORCELAIN FLOOR TILE *RE: FINISH SCHEDULE*
- PFT-3 PORCELAIN FLOOR TILE *RE: FINISH SCHEDULE*
- PFT-4 PORCELAIN FLOOR TILE *RE: FINISH SCHEDULE*
- PFT-5 PORCELAIN FLOOR TILE *RE: FINISH SCHEDULE*
- PFT-6 PORCELAIN FLOOR TILE *RE: FINISH SCHEDULE*
- PFT-7 PORCELAIN FLOOR TILE *RE: FINISH SCHEDULE*
- PFT-8 PORCELAIN FLOOR TILE *RE: FINISH SCHEDULE*
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- PFT-10 PORCELAIN FLOOR TILE *RE: FINISH SCHEDULE*
- RF-1 RUBBER FLOORING *RE: FINISH SCHEDULE*
- RSF-1 SPORTS FLOORING - ROLLED *RE: FINISH SCHEDULE*
- EXISTING TO REMAIN

* REFER TO SHEET AF100 FOR SCHEDULE OF FINISHES

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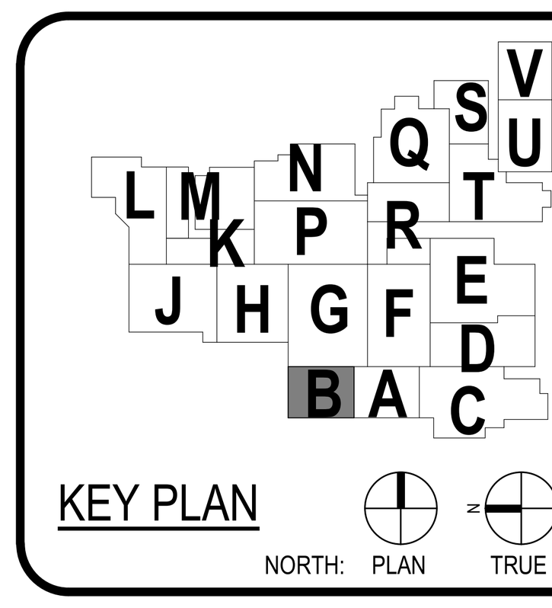

DISCIPLINE

REGISTERED ARCHITECT GREGORY A. PRINCE 27199 STATE OF TEXAS
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - FINISH PLAN - AREA B

AF101B

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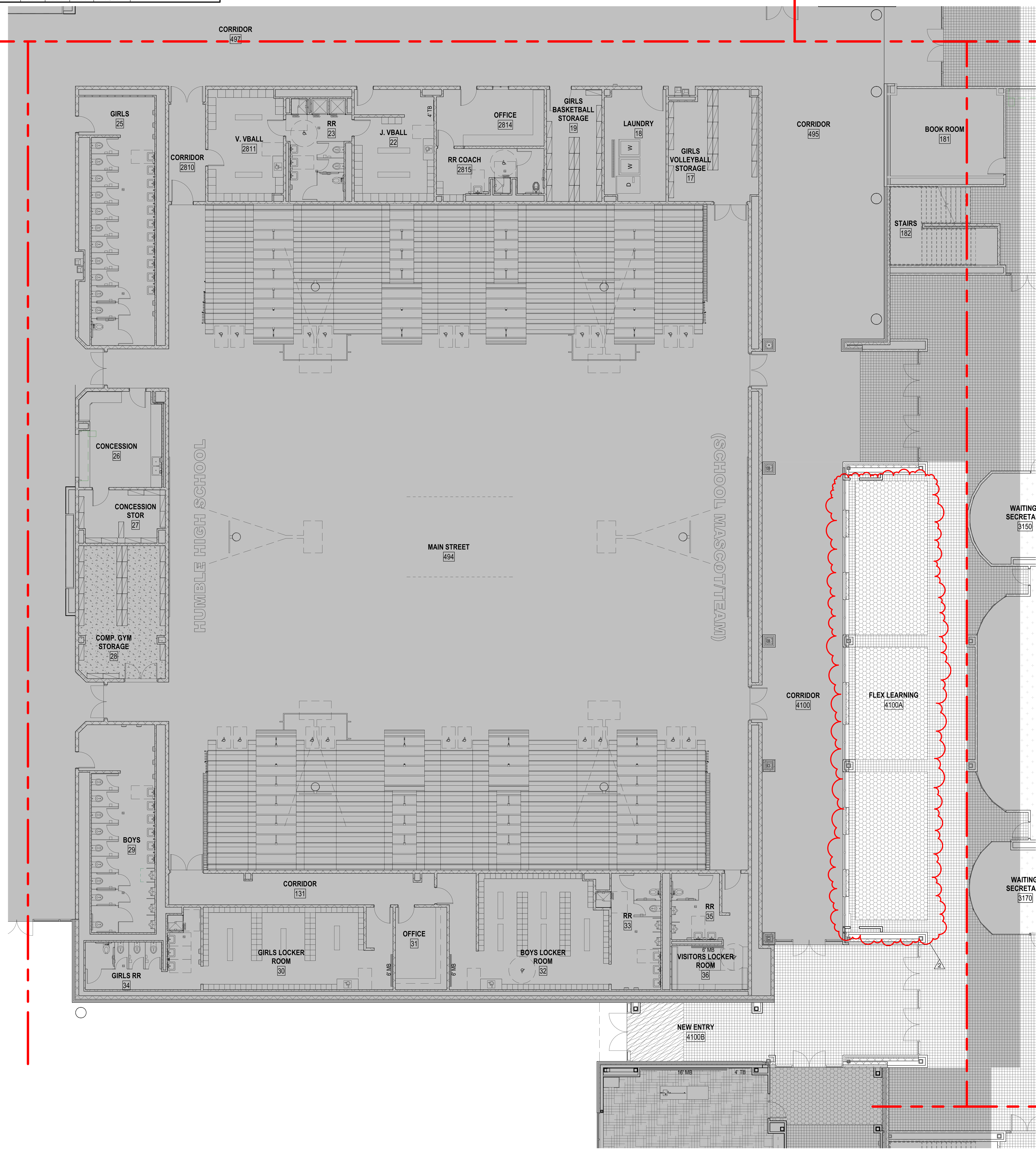
AF101B
1ST LEVEL - FINISH PLAN - AREA B
FOR BLUEBEAM LABELING OCR:

ROOM FINISH SCHEDULE AREA H

ROOM DATA		FLOOR FINISH	BASE FINISH	WALL FINISHES				CEILINGS	COMMENTS
№	NAME			NORTH	EAST	SOUTH	WEST	FINISH	
4100A	FLEX LEARNING		RB-1					ACT-1	
4100B	NEW ENTRY	PFT-1/ CPT-3	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	



06 1ST LEVEL - FINISH PLAN - AREA H
1/8" = 1'-0"

GENERAL FINISH LEGEND NOTES

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3. 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.
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7. PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
8. PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL U.N.O.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
10. ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE U.N.O.
11. ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
12. PAINT ALL HOLLOW METAL DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.

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FINISH FLOOR LEGEND

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RE: FINISH SCHEDULE

SC-1, STAINED CONCRETE
RE: FINISH SCHEDULE

WF-1, GYM WOOD FLOORING
RE: FINISH SCHEDULE

CPT-1, CARPET TYPE 1
RE: FINISH SCHEDULE

CPT-2, CARPET TYPE 2
RE: FINISH SCHEDULE

CPT-3, WALK OFF CARPET
RE: FINISH SCHEDULE

PFT-1 PORCELAIN FLOOR TILE
RE: FINISH SCHEDULE

PFT-2 PORCELAIN FLOOR TILE
RE: FINISH SCHEDULE

PFT-3 PORCELAIN FLOOR TILE
RE: FINISH SCHEDULE

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RE: FINISH SCHEDULE

PFT-9 PORCELAIN FLOOR TILE
RE: FINISH SCHEDULE

PFT-10 PORCELAIN FLOOR TILE
RE: FINISH SCHEDULE

RF-1 RUBBER FLOORING
RE: FINISH SCHEDULE

RSF-1 SPORTS FLOORING - ROLLED
RE: FINISH SCHEDULE

EXISTING TO REMAIN

* REFER TO SHEET AF100 FOR SCHEDULE OF FINISHES

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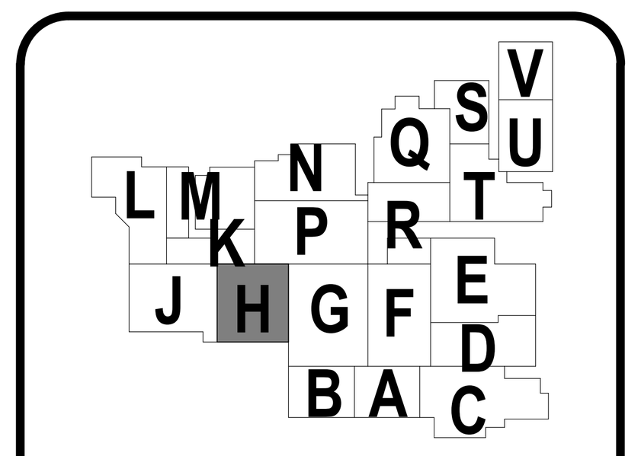
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT · HUMBLE, TEXAS · HARRIS COUNTY



KEY PLAN
NORTH PLAN TRUE

DISCIPLINE
REGISTERED ARCHITECT · GREGORY A. PRINCE · STATE OF TEXAS · 27199
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - FINISH PLAN - AREA H

AF101H

1ST LEVEL - FINISH PLAN - AREA H
AF101H
FOR BLUEBEAM LABELING/OCR:

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Author
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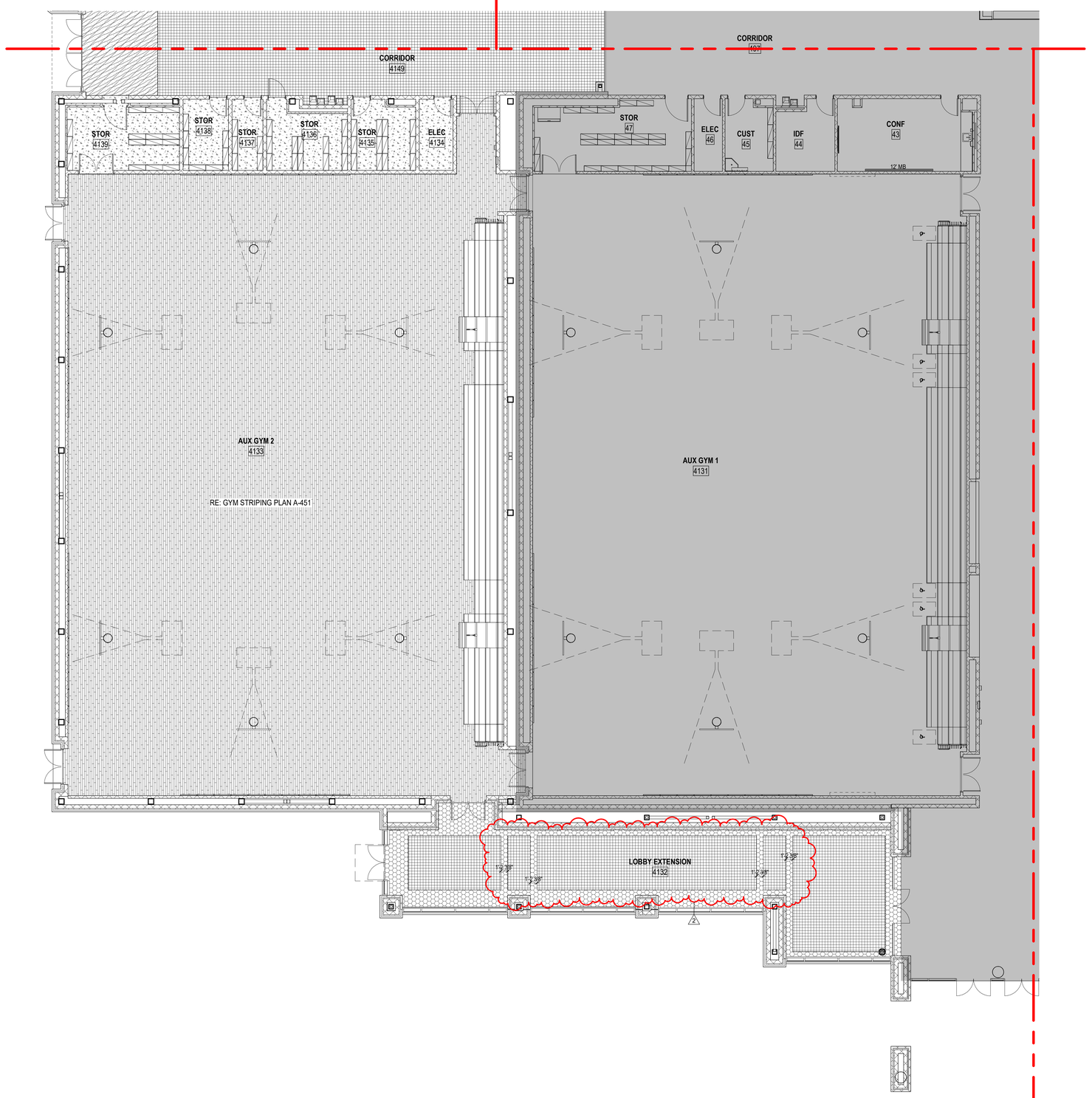
0"

1"

ROOM FINISH SCHEDULE AREA J

ROOM DATA №	ROOM DATA NAME	FLOOR FINISH	BASE FINISH	WALL FINISHES NORTH	WALL FINISHES EAST	WALL FINISHES SOUTH	WALL FINISHES WEST	CEILINGS FINISH	COMMENTS
4132	LOBBY EXTENSION	PFT-1/ PFT-2/ PFT-7/ PFT-8	NONE	B-1/ GAP-1	CSMU-1	CSMU-1	CSMU-1	ACT-1/ PT-9	REFER TO FINISH PLAN AND INTERIOR ELEVATION FOR PATTERN
4133	AUX GYM 2	WF-1	RB-1	PT-1	PT-1	PT-1	PT-1	EXPOSED PAINTED STRUCTURE	TECTUM CEILING PANELS
4134	ELEC	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	EXPOSED STRUCTURE	
4135	STOR	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
4136	STOR	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
4137	STOR	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
4138	STOR	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
4139	STOR	SC-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
4149	CORRIDOR	PFT-1/ CPT-3	TB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	REFER TO FINISH PLAN FOR PATTERN



06 1ST LEVEL - FLOOR PLAN - AREA J
1/8" = 1'-0"

GENERAL FINISH LEGEND NOTES

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FINISH FLOOR LEGEND

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- SC-1, STAINED CONCRETE — *RE: FINISH SCHEDULE*
- WF-1, GYM WOOD FLOORING — *RE: FINISH SCHEDULE*
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- CPT-2, CARPET TYPE 2 — *RE: FINISH SCHEDULE*
- CPT-3, WALK OFF CARPET — *RE: FINISH SCHEDULE*
- PFT-1 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
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- PFT-3 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
- PFT-4 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
- PFT-5 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
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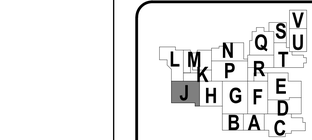

KEY PLAN
NORTH: PLAN TRUE

DISCIPLINE

REGISTERED ARCHITECT GREGORY A. PRINCE 27197 STATE OF TEXAS

12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2025

ISSUE FOR PROPOSAL

BUILDING NUMBER n/a

1ST LEVEL - FINISH PLAN - AREA J

AF101J

1ST LEVEL - FINISH PLAN - AREA J
AF101J
FOR BLUEBEAM LABELING OOR:

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/AR23 220537 HISD HHS Phase 2.rvt

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RM
DRAWN BY:
NE
Plot Stamp:
1/10/2025 12:43:55 PM

ROOM FINISH SCHEDULE AREA K

ROOM DATA				WALL FINISHES				CEILINGS	
№	NAME	FLOOR FINISH	BASE FINISH	NORTH	EAST	SOUTH	WEST	FINISH	COMMENTS
2814	OFFICE	PFT-5	WT-1	-	-	PT-10	-	-	
2815	RR COACH	PFT-5	WT-1	PT-10	-	CERAMIC TILE	-	-	MATCH EXISTING
2831	BOYS BBALL STOR	CS-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
2841	COACH RR	PFT-5	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	-	-	-	-	MATCH EXSITING
4141	BOYS TRACK	PFT-5	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	ACT-1	
4142	BOYS TENNIS, WRESTLING, JROTC	PFT-5	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	ACT-1	
4142A	VESTIBULE	PFT-5	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	ACT-1	
4142B	VESTIBULE	PFT-5	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	ACT-1	
4148	RR	PFT-5	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	WT-1/ WT-2/ WT-3	GWB-1	

2

FINISH FLOOR LEGEND

- CS-1, SEALED CONCRETE — *RE: FINISH SCHEDULE*
- SC-1, STAINED CONCRETE — *RE: FINISH SCHEDULE*
- WF-1, GYM WOOD FLOORING — *RE: FINISH SCHEDULE*
- CPT-1, CARPET TYPE 1 — *RE: FINISH SCHEDULE*
- CPT-2, CARPET TYPE 2 — *RE: FINISH SCHEDULE*
- CPT-3, WALK OFF CARPET — *RE: FINISH SCHEDULE*
- PFT-1 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
- PFT-2 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
- PFT-3 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
- PFT-4 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
- PFT-5 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
- PFT-6 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
- PFT-7 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
- PFT-8 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
- PFT-9 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
- PFT-10 PORCELAIN FLOOR TILE — *RE: FINISH SCHEDULE*
- RF-1 RUBBER FLOORING — *RE: FINISH SCHEDULE*
- RSF-1 SPORTS FLOORING - ROLLED — *RE: FINISH SCHEDULE*
- EXISTING TO REMAIN

* REFER TO SHEET AF100 FOR SCHEDULE OF FINISHES

FINISH SCHEDULE REMARKS

ALL SCHEDULED DIRECTIONS (NORTH, EAST, SOUTH, WEST) ARE PER PLAN DIRECTIONS, NOT TRUE COMPASS DIRECTIONS.

ALL SCHEDULED CEILING HEIGHTS ARE FROM THE PRIMARY FLOOR LEVEL WITHIN THE ROOM AND OR SPACE, AND ARE NOT FROM AN ELEVATED FLOOR LEVEL, AND ARE NOT FROM A RECESSED FLOOR LEVEL.

ALL FINISH MATERIALS SHALL MEET FLAME SPREAD RATINGS PER THE BUILDING CODE.

PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.

CARPET PATTERNS SHALL RUN PARALLEL TO CORRIDOR U.N.O.

PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIALS U.N.O.

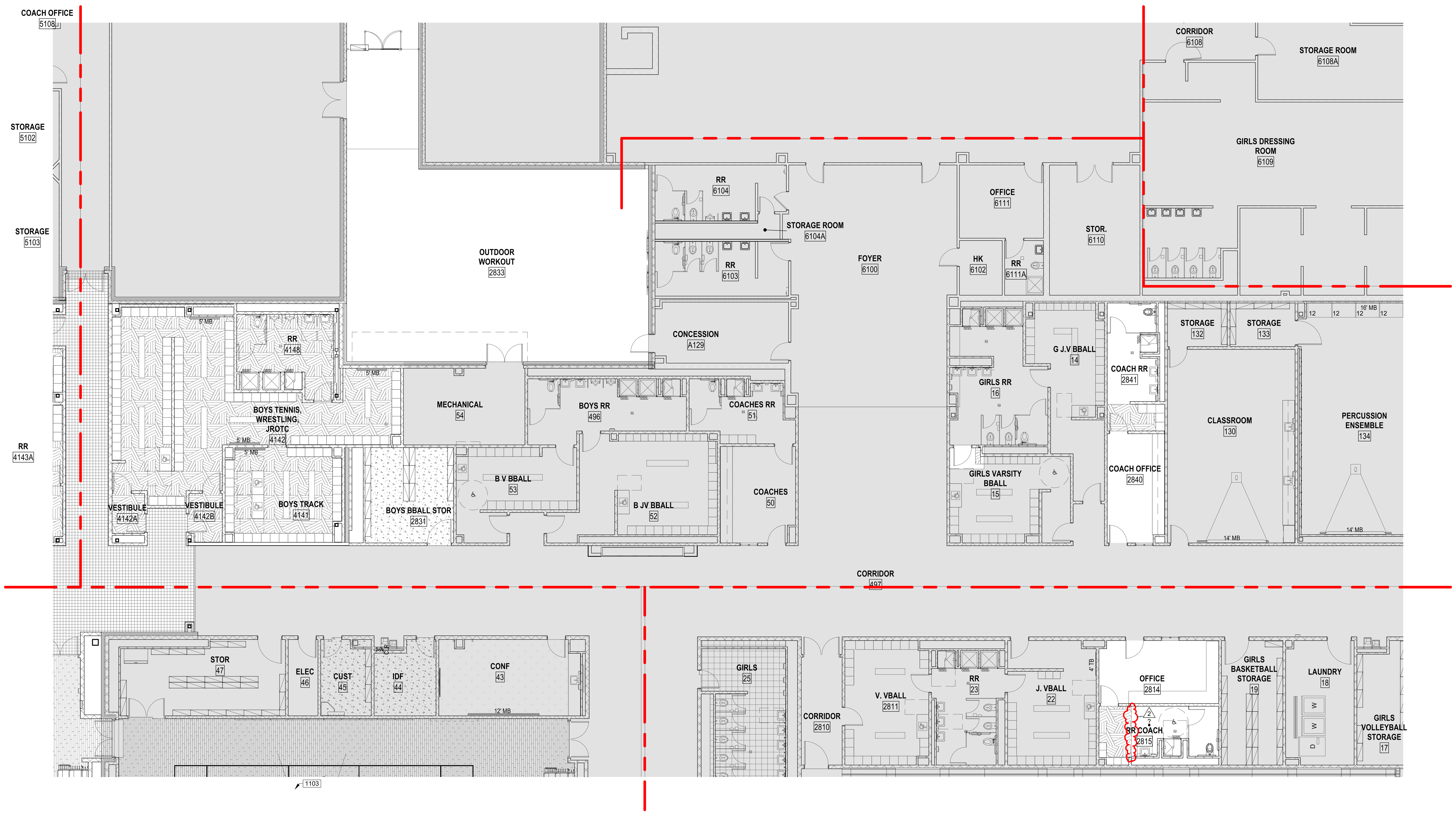
PAINT ALL NEW NON-FACTORY FINISHED EXPOSED METAL.

PAINT ALL NEW H.M. DOORS U.N.O.

1. REFER TO FLOOR PATTERN PLANS
2. REFER TO INTERIOR ELEVATIONS
3. REFER TO CEILING PLANS
4. 48"H STAINLESS STEEL WAINSCOT AT MOP SINK, EXTEND 24" EACH SIDE BEYOND SINK EDGES
5. PAINT ALL EXPOSED CEILING-RELATED ITEMS, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
6. PAINT ALL EXPOSED CEILING-RELATED ITEMS FLAT BLACK, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
7. PAINT ALL EXPOSED CEILING-RELATED ITEMS WHITE, INCLUDING BUT NOT LIMITED TO, STRUCT. MEMBERS, STRUCT. DECK, DUCTWORK, DIFFUSERS, PIPING, CONDUIT, EQUIP. HOUSINGS, LIGHT FIXTURE HOUSINGS, CABLE SUPPORTS, CABLE TRAYS, EQUIP. SUPPORTS, HANGERS
8. HOLD-DOWN CLIPS AT SUSP. LAY-IN CEILING SYSTEM WITHIN 8'-0" MIN. ANY DIRECTION FROM AN EXTERIOR DOOR LOCATION

GENERAL FINISH LEGEND NOTES

1. ALL FINISH MATERIALS SHALL MEET THE FLAME SPREAD RATINGS PER THE BUILDING CODE.
2. REFER TO INTERIOR ELEVATIONS FOR SPECIFIC MATERIAL LOCATIONS.
3. 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.
4. PAINT ALL NON-FACTORY FINISHED EXPOSED METAL.
5. REFER TO TYPICAL FLOORING TRANSITION DETAILS FOR FLOORING MATERIAL TRANSITIONS.
6. ALL FLOORING TRANSITIONS AT DOORS SHALL BE LOCATED UNDER THE DOOR IN THE CLOSED POSITION, U.N.O.
7. PROTECT ALL FINISHED FLOORING SURFACES FROM DAMAGE DURING ALL CONSTRUCTION PHASES.
8. PROVIDE AND INSTALL BULLNOSE TRIM AT ALL TRANSITIONS FROM CERAMIC WALL TILE TO OTHER MATERIAL U.N.O.
9. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS.
10. ALL ELECTRICAL DEVICE COVERS ARE TO BE WHITE U.N.O.
11. ALL CARPET PATTERNS TO RUN PARALLEL TO CORRIDOR, U.N.O.
12. PAINT ALL HOLLOW METAL DOOR FRAMES TO MATCH ADJACENT WALL COLOR U.N.O.



06 1ST LEVEL - FINISH PLAN - AREA K
1/8" = 1'-0"

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MEPT
LEAF ENGINEERS
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LANDSCAPE
GREENSCAPE ASSOCIATES
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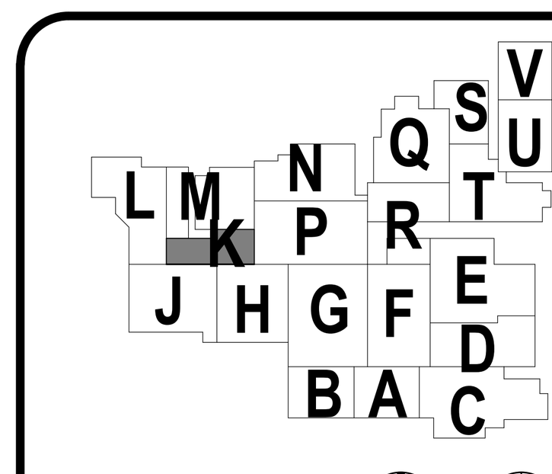
HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO
17000 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09



KEY PLAN
NORTH PLAN TRUE

DISCIPLINE
12/18/2024

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
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1ST LEVEL - FINISH PLAN - AREA K

AF101K

1ST LEVEL - FINISH PLAN - AREA K
AF101K
FOR BLUEBEAM LABELING OCR:

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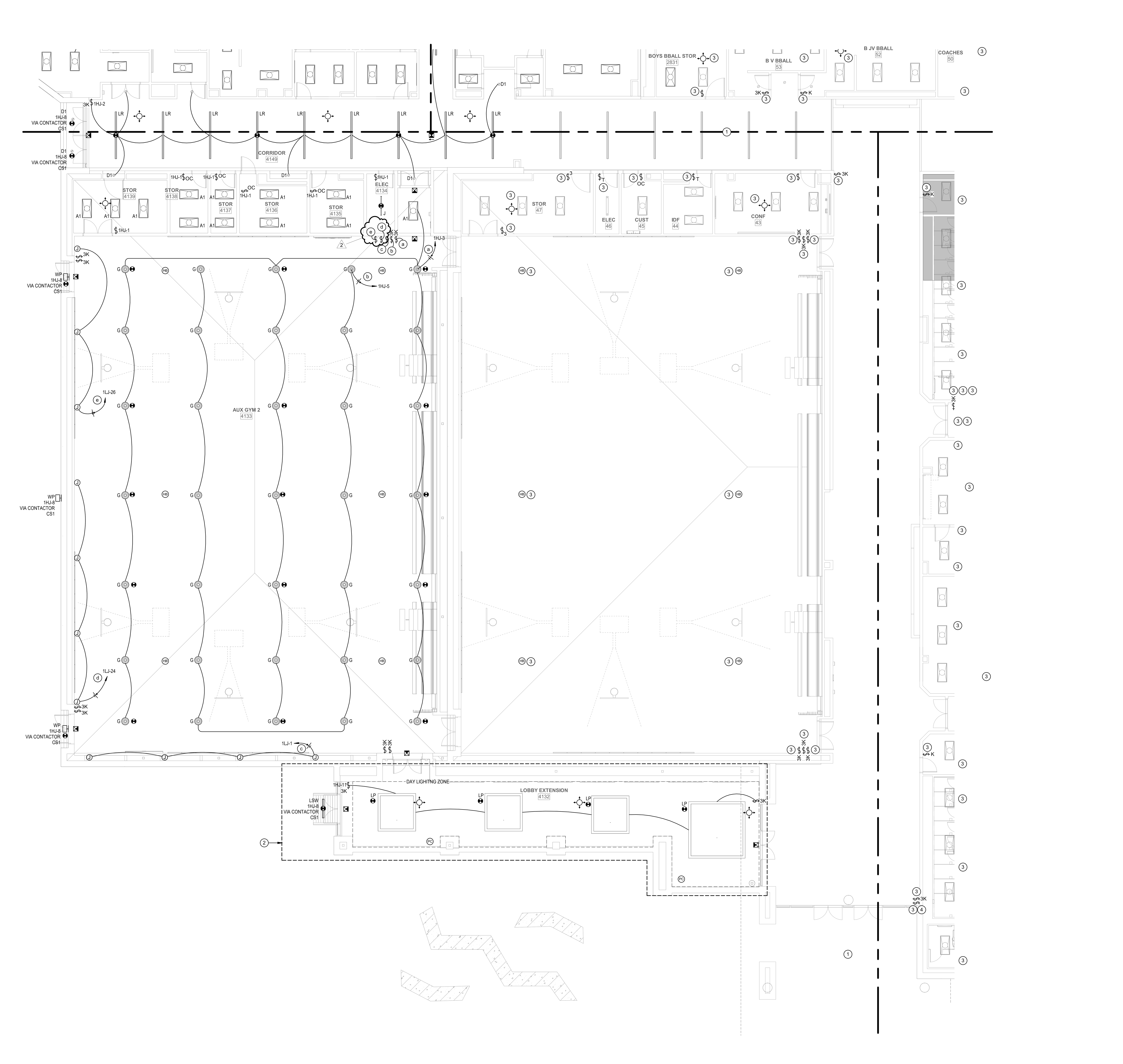
Plot Stamp: 1/16/2025 5:37:10 PM

1ST LEVEL LIGHTING PLAN - AREA J
E-201J
FOR BLUEBEAM LABELING OCR:



1 1ST LEVEL LIGHTING PLAN - AREA J
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
2. UNLESS OTHERWISE NOTED, ALL 2X4'S ARE TYPE "A", ALL EXIT SIGNS ARE TYPE "X".
3. PROVIDE 20A EMERGENCY LIGHTING BRANCH CIRCUIT(S), 2#10, 1#10G, 3/4"C FROM EMERGENCY PANEL. PROVIDE CONNECTION TO ALL 277V FIXTURES DESIGNATED FOR USE AS EMERGENCY IN THIS AREA. PROVIDE EMERGENCY AUTOMATIC TRANSFER DEVICES FOR ALL LIGHT FIXTURES SHOWN TO BE ON EMERGENCY. PROVIDE 20A UNSWITCHED BRANCH CIRCUIT (2#12, 1#12G, 3/4"C) FROM EMERGENCY PANEL TO ALL EXIT SIGNS IN THIS AREA, SEE PANEL SCHEDULE FOR CIRCUIT NUMBER(S).
4. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
5. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL DETAILS REGARDING AREAS OF SCOPE. THE ARCHITECTURAL SHEETS SHALL TAKE PRECEDENCE OVER ELECTRICAL SHEETS SHOULD ANY DISCREPANCIES BE FOUND.
7. NEW LIGHTING CONTROLS TO BE PROVIDED SHALL MATCH THE OWNER SUPPLIED LIGHTING CONTROLS SHOWN ON SHEET E-601 WITH NO EXCEPTIONS.

LIGHTING PLAN KEYED NOTES:

(1) NOT IN SCOPE OF WORK.
(2) SCOPE OF WORK SHALL BE PROVIDED AS PART OF ALTERNATE #8.
(3) LIGHTING AND BRANCH CIRCUITRY IN THIS ROOM ARE EXISTING TO REMAIN. CONTRACTOR SHALL INSTALL NEW CONTROLS AS INDICATED. NEW CONTROLS SHALL BE PROVIDED FROM OWNERS STOCK. NEW LIGHITNG CONTROLS SHALL BE CONNECTED TO EXISTING LIGHITNG AND BRANCH CIRCUITRY CURRENTLY SERVING THIS AREA. REFER TO SHEET E-601 FOR A LIST OF OWNER SUPPLIED LIGHTING CONTROLS.
(4) BMCS OVERRIDE SWITCH TO CONTROL CONTACTOR CONTROLLED INTERIOR LIGHTING. LOCATE ADJACENT TO SECURITY KEYPAD. OVERRIDE SHALL BE PROVIDED FROM OWNERS STOCK. REFER TO SHEET E-601 FOR A LIST OF OWNER SUPPLIED LIGHTING CONTROLS.

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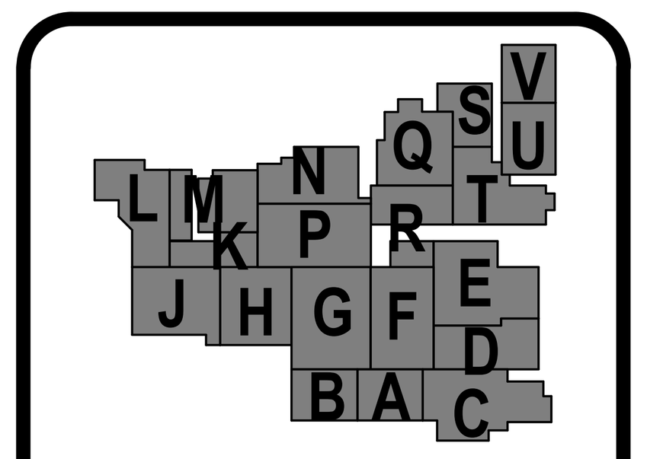
HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT
HUMBLE, TEXAS
HARRIS COUNTY



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED
PROFESSIONAL ENGINEER
12/18/2024
LEAF ENGINEERS
F-18672

CLIENT
HUMBLE ISD

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12/18/2024	220537

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2	Addendum #2	1/17/2024

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1ST LEVEL LIGHTING PLAN - AREA J

E-201J

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/E23 220537 HISD HHS PHASE 2.rvt

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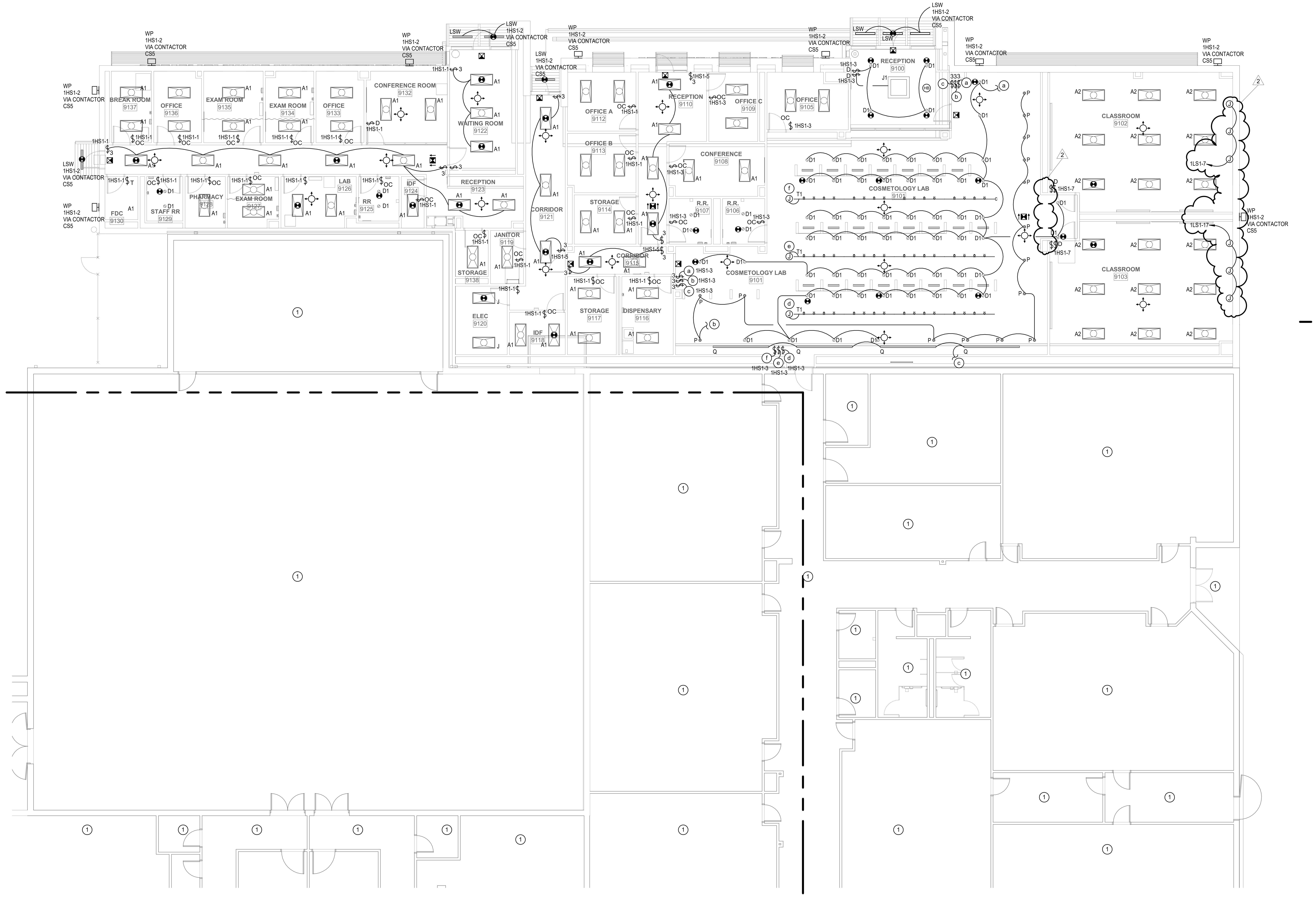
DON RICHARDS
DRAWN BY:
TLG
Plot Stamp:
1/17/2025 9:54:31 AM



1 1ST LEVEL LIGHTING PLAN - AREA S
SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

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4. UNLESS OTHERWISE NOTED, TWO SWITCHES SIDE-BY-SIDE INDICATES MULTI-LEVEL SWITCHING. PROVIDE ONE-PIECE COVER PLATE FOR LIGHT SWITCHES. DESIGNATION NEXT TO SWITCHES INDICATES BRANCH CIRCUIT NUMBER. PROVIDE CONNECTION TO ALL FIXTURES IN THE ROOM.
5. PROVIDE A COMPLETE AND OPERATIONAL SYSTEM OF OCCUPANCY SENSORS FOR ON/OFF CONTROL OF ALL LIGHT FIXTURES INCLUDING BUT NOT LIMITED TO POWER PACKS, WIRING, ETC. RE: DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL DETAILS REGARDING AREAS OF SCOPE. THE ARCHITECTURAL SHEETS SHALL TAKE PRECEDENCE OVER ELECTRICAL SHEETS SHOULD ANY DISCREPANCIES BE FOUND.
7. NEW LIGHTING CONTROLS TO BE PROVIDED SHALL MATCH THE OWNER SUPPLIED LIGHTING CONTROLS SHOWN ON SHEET E-601 WITH NO EXCEPTIONS.

LIGHTING PLAN KEYED NOTES:

(1) NOT IN SCOPE OF WORK.

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HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

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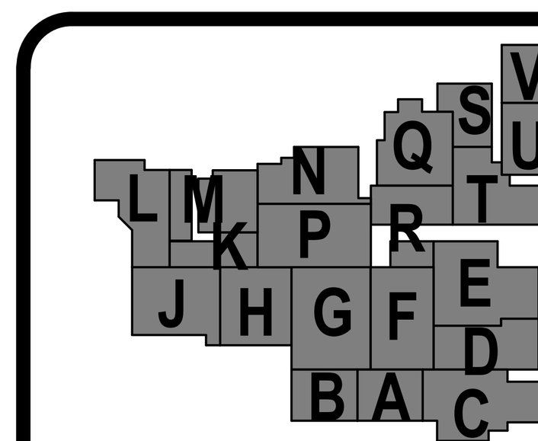
HUMBLE INDEPENDENT SCHOOL DISTRICT, HUMBLE, TEXAS, HARRIS COUNTY



KEY PLAN
NORTH: PLAN TRUE

STATE OF TEXAS
DONALD C. RICHARDS
61525
LICENSED PROFESSIONAL ENGINEER
12/18/2024
LEAF ENGINEERS
F-18672

CLIENT
HUMBLE ISD

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2	Addendum #2	1/17/2024

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1ST LEVEL LIGHTING PLAN - AREA S

E-201S

File Path: Autodesk Docs://Humble ISD_220537_Humble HS A&R Ph 2 Package 1/E23 220537 HISD HHS PHASE 2.rvt

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DON RICHARDS
DRAWN BY:
TLG
Plot Stamp:
1/17/2025 9:54:32 AM

ELECTRICAL PANEL SCHEDULES
E-703
FOR BLUEBEAM LABELING OCR:

0"
1"

Job: HUMBLE HS PHASE 2
Job No. 220537
Mounting **SURFACE**
Main Type **MCB (400A)**
Neutral **100%**
Voltage: **480Y/277V-3PH 4W**
Main Size: **400 AMPS**
AIC Rating **42000**
Ground **Equipment Ground**
Lugs **SINGLE**

PANEL: **1HS1**

									ALL LOADS IN VA															
Ltg.	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
1316							0.00	LIGHITNG	20/1	12	**1**	**A**	**2**	12	20/1	EXTERIOR LIGHITNG	621							0.00
2274							0.00	LIGHITNG	20/1	12	**3**	**B**	**4**			SPACE								0.00
640							0.00	CORRIDOR LTG	20/1	12	**5**	**C**	**6**			SPACE								0.00
846							0.00	CLASS RM LTG	20/1	12	**7**	**A**	**8**	12	20/3	EWH-3				2000				0.00
							0.00	SPACE			**9**	**B**	**10**	-	-	-				2000				0.00
							0.00	SPACE			**11**	**C**	**12**	-	-	-				2000				0.00
							0.00	SPACE			**13**	**A**	**14**			SPACE								0.00
							0.00	SPACE			**15**	**B**	**16**			SPACE								0.00
							0.00	SPACE			**17**	**C**	**18**			SPACE								0.00
							0.00	SPACE			**19**	**A**	**20**			SPACE								0.00
							0.00	SPACE			**21**	**B**	**22**			SPACE								0.00
							0.00	SPACE			**23**	**C**	**24**			SPACE								0.00
							0.00	SPACE			**25**	**A**	**26**			SPACE								0.00
							0.00	SPACE			**27**	**B**	**28**			SPACE								0.00
							0.00	SPACE			**29**	**C**	**30**			SPACE								0.00
							0.00	SPACE			**31**	**A**	**32**			SPACE								0.00
							0.00	SPACE			**33**	**B**	**34**			SPACE								0.00
							0.00	SPACE			**35**	**C**	**36**			SPACE								0.00
0	4720	1508	1100	0	3957	800	0.00	XFMR T1LS1	175/3	SEE	**37**	**A**	**38**	SEE	70/3	XFMR T1LS	0	37167	1901	0	0	7774	0	0.00
0	4720	1508	1100	0	3957	800	0.00	-	-	RISER	**39**	**B**	**40**	RISER	-	-	0	37167	1901	0	0	7774	0	0.00
0	4720	1508	1100	0	3957	800	0.00	-	-	-	**41**	**C**	**42**	-	-	-	0	37167	1901	0	0	7774	0	0.00
5076	14160	4523	3300	0	11870	2400	0.00	**TOTALS**								**TOTALS**	621	111500	5703	6000	0	23322	0	0.00

LOAD SUMMARY								
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
5.7	125.7	84.0	89.3	0.0	35.2	2.4	0.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
7.1	67.8	84.0	89.3	0.0	35.2	1.6	0.0	Design KVA

Phase Load	
Ph	KVA
A	63.7
B	63.2
C	61.6

Panel Remarks:

*Input div...
**100% o...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	342.3	411.7		285.0	342.8

PANEL: **1HS1**
Date: 1/17/2025 By: TLG 10/22/03

Job: HUMBLE HS PHASE 2
Job No. 220537
Mounting **SURFACE**
Main Type **MCB (225A)**
Neutral **200%**
Voltage: **208Y/120V-3PH 4W**
Main Size: **225 AMPS**
AIC Rating **10000**
Ground **Equipment Ground**
Lugs **FEED THRU**

PANEL: **1LS**

									ALL LOADS IN VA															
Ltg.	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
	360						0.00	BREAKRM 2 REC	20/1	12	**1**	**A**	**2**	12	20/1	EXAM RM 4 REC		720						0.00
						800	0.00	REFRIGERATOR	20/1	12	**3**	**B**	**4**	12	20/1	EXAM RM REC		500						0.00
	500						0.00	BREAKRM REC	20/1	12	**5**	**C**	**6**	12	20/1	LAB/RR 4 REC		1920						0.00
					1200		0.00	MICROWAVE	20/1	12	**7**	**A**	**8**	12	20/1	REFERGERATOR							800	0.00
	360				250		0.00	OFFICE 2 REC/PC	20/1	12	**9**	**B**	**10**	12	20/1	LAB REC		500						0.00
					750		0.00	OFFICE 2 TV/PC	20/1	12	**11**	**C**	**12**	12	20/1	LAB REC		500						0.00
	720						0.00	OFFICE 4 REC	20/1	12	**13**	**A**	**14**	12	20/1	LAB PC						250		0.00
	900						0.00	EXAM RM 5 REC	20/1	12	**15**	**B**	**16**	12	20/1	CORR/RECEPTION 6 REC		1080						0.00
	360				250		0.00	OFFICE 2 REC/PC	20/1	12	**17**	**C**	**18**	12	20/1	RECPTION PC						250		0.00
	360						0.00	CONF RM 5 REC	20/1	12	**19**	**A**	**20**	12	20/1	COPIER						1600		0.00
	1080						0.00	CONF RM 2 QUAD/FB	20/1	12	**21**	**B**	**22**	10	30/1	IDF RACK						2880		0.00
	900						0.00	WAIT RM 5 REC	20/1	12	**23**	**C**	**24**	12	20/1	IDF RACK						1920		0.00
	900						0.00	FDC/RR 5 REC	20/1	12	**25**	**A**	**26**	12	20/1	IDF RACK						1920		0.00
	500						0.00	PHARM REC	20/1	12	**27**	**B**	**28**	12	20/1	IDF REC		500						0.00
	500						0.00	PHARM REC	20/1	12	**29**	**C**	**30**	12	20/1	IDF REC		500						0.00
						800	0.00	REFERGERATOR	20/1	12	**31**	**A**	**32**	12	20/1	IDF REC		500						0.00
							1.00	SPARE	20/1		**33**	**B**	**34**	12	20/1	ACCESS CONTROL						300		0.00
							1.00	SPARE	20/1		**35**	**C**	**36**	12	20/1	FIRE ALARM						300		0.00
			1650				0.00	EUH-S01	20/2	12	**37**	**A**	**38**		20/1	SPARE								1.00
			1650				0.00	-	-	-	**39**	**B**	**40**		20/1	SPARE								1.00
							1.00	SPARE	20/1		**41**	**C**	**42**		20/1	SPARE								1.00
							1.00	SPARE	20/1		**43**	**A**	**44**		20/1	SPARE								1.00
							1.00	SPARE	20/1		**45**	**B**	**46**		20/1	SPARE								1.00
							1.00	SPARE	20/1		**47**	**C**	**48**		20/1	SPARE								1.00
							1.00	SPARE	20/1		**49**	**A**	**50**		20/1	SPARE								1.00
							1.00	SPARE	20/1		**51**	**B**	**52**	10	25/2	ACCU-IDF -9118			1466					0.00
							1.00	SPARE	20/1		**53**	**C**	**54**	-	-	-			1466					0.00
		530					0.00	EF-S-06	20/1	12	**55**	**A**	**56**	10	30/3	SPD								0.00
		530					0.00	EF-S-04	20/1	12	**57**	**B**	**58**	-	-	-								0.00
		530					0.00	EF-S-05	20/1	12	**59**	**C**	**60**	-	-	-								0.00
0	7440	1590	3300	0	2450	1600	9.00	**TOTALS**								**TOTALS**	0	6720	2933	0	0	9420	800	7.00

LOAD SUMMARY								
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	14.2	4.5	3.3	0.0	11.9	2.4	16.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	12.1	4.5	3.3	0.0	11.9	1.6	8.0	Design KVA

Phase Load	
Ph	KVA
A	12.3
B	13.3
C	10.6

Panel Remarks:

*Input div...
**100% o...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	52.3	145.0		41.3	114.7

PANEL: **1LS**
Date: 1/17/2025 By: TLG 10/22/03

Job: HUMBLE HS PHASE 2
Job No. 220537
Mounting **SURFACE**
Main Type **MLO**
Neutral **200%**
Voltage: **208Y/120V-3PH 4W**
Main Size: **400 AMPS**
AIC Rating **10000**
Ground **Equipment Ground**
Lugs **FEED THRU**

PANEL: **1LS2**

									ALL LOADS IN VA															
Ltg.	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
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**1**	**A**	**2**	10	30/2	DRYER						2496		0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**3**	**B**	**4**	-	-	-						2496		0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**5**	**C**	**6**	12	20/1	WASHER						600		0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**7**	**A**	**8**	12	20/1	DISPENSARY REC		500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**9**	**B**	**10**	12	20/1	DISPENSARY REC		500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**11**	**C**	**12**	12	20/1	DISPENSARY 2 REC		360						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**13**	**A**	**14**	12	20/1	CORR/STRG 6 REC		1080						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**15**	**B**	**16**	12	20/1	CORR/STRG/RR 4 REC		720						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**17**	**C**	**18**	10	30/1	HAND DRYER						2880		0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**19**	**A**	**20**	10	30/1	HAND DRYER						2880		0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**21**	**B**	**22**	12	20/1	CONF RM 4 REC		720						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**23**	**C**	**24**	12	20/1	CONF RM TV/FB		360				250		0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**25**	**A**	**26**	12	20/1	OFFICE 6 REC		720						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**27**	**B**	**28**	12	20/1	OFFICE/RECEPTION 4 PC						1000		0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**29**	**C**	**30**	10	30/1	IDF RACK						2880		0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**31**	**A**	**32**	12	20/1	IDF RACK						1920		0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**33**	**B**	**34**	12	20/1	IDF RACK						1920		0.00
	1000						0.00	COSMO LAB WRK STATION	20/1	12	**35**	**C**	**36**	12	20/1	IDF REC		500						0.00
							0.00	SPARE	20/1		**37**	**A**	**38**	12	20/1	IDF REC		500						0.00
							0.00	SPARE	20/1		**39**	**B**	**40**	12	20/1	IDF REC		500						0.00
							0.00	SPARE	20/1		**41**	**C**	**42**	12	20/1	ACCES CONTROL						300		0.00
							0.00	SPARE	20/1		**43**	**A**	**44**	12	20/1	FIRE ALARM						300		0.00
							0.00	SPARE	20/1		**45**	**B**	**46**	12	20/1	CP-3 AND CP-4			360					0.00
							0.00	SPARE	20/1		**47**	**C**	**48**		20/1	SPARE								1.00
							0.00	SPARE	20/1		**49**	**A**	**50**		20/1	SPARE								1.00
							1.00	SPARE	20/1		**51**	**B**	**52**		20/1	SPARE								1.00
							1.00	SPARE	20/1		**53**	**C**	**54**		20/1	SPARE								1.00
							1.00	SPARE	20/1		**55**	**A**	**56**		20/1	SPARE								1.00
							1.00	SPARE	20/1		**57**	**B**	**58**		20/1	SPARE								1.00
							1.00	SPARE	20/1		**59**	**C**	**60**	12	20/1	IRRIGATION CTRL						300		0.00
0	26500	0	0	0	0	0	5.00	**TOTALS**								**TOTALS**	0	6460	360	0	0	20222	0	6.00

LOAD SUMMARY								
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	33.0	0.4	0.0	0.0	20.2	0.0	11.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	21.5	0.4	0.0	0.0	20.2	0.0	5.5	Design KVA

Phase Load	
Ph	KVA
A	19.4
B	17.2
C	16.9

Panel Remarks:

*Input div...
**100% o...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	64.5	179.2		47.6	132.0

PANEL: **1LS2**
Date: 1/17/2025 By: TLG 10/22/03

Job: HUMBLE HS PHASE 2
Job No. 220537
Mounting **SURFACE**
Main Type **MLO**
Neutral **100%**
Voltage: **480Y/277V-3PH 4W**
Main Size: **400 AMPS**
AIC Rating **42000**
Ground **Equipment Ground**
Lugs **SINGLE**

PANEL: **1HS2**

									ALL LOADS IN VA															
Ltg.	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
		211	600				0.00	CVB-S1-01	20/3	12 **	**1**	**A**	**2**	12 **	20/3	CVB-S3-01				267				0.00
			600				0.00	-	-	-	**3**	**B**	**4**	-	-	-				267				0.00
			600				0.00	-	-	-	**5**	**C**	**6**	-	-	-			211	267				0.00
			2233				0.00	CVB-S1-02	20/3	12 **	**7**	**A**	**8**	12 **	20/3	CVB-S3-02			388	1067				0.00
		526	2233				0.00	-	-	-	**9**	**B**	**10**	-	-	-				1067				0.00
			2233				0.00	-	-	-	**11**	**C**	**12**	-	-	-				1067				0.00
			5267				0.00	CVB-S1-03	30/3	10 **	**13**	**A**	**14**	12 **	20/3	CVB-S3-03				1567				0.00
			5267				0.00	-	-	-	**15**	**B**	**16**	-	-	-			388	1567				0.00
		1357	5267				0.00	-	-	-	**17**	**C**	**18**	-	-	-				1567				0.00
		526	2633				0.00	CVB-S1-04	20/3	12 **	**19**	**A**	**20**	12 **	20/3	CVB-S3-04				400				0.00
			2633				0.00	-	-		**21**	**B**	**22**	-	-	-				400				0.00
			2633				0.00	-	-	-	**23**	**C**	**24**	-	-	-			211	400				0.00
			2200				0.00	CVB-S2-01	20/3	12 **	**25**	**A**	**26**	12 **	20/3	CVB-S3-05			388	1200				0.00
		526	2200				0.00	-	-	-	**27**	**B**	**28**	-	-	-				1200				0.00
			2200				0.00	-	-	-	**29**	**C**	**30**	-	-	-				1200				0.00
			3467				0.00	CVB-S2-02	20/3	12 **	**31**	**A**	**32**	12 **	20/3	CVB-S3-06				400				0.00
			3467				0.00	-	-	-	**33**	**B**	**34**	-	-	-			211	400				0.00
		914	3467				0.00	-	-	-	**35**	**C**	**36**	-	-	-				400				0.00
		388	1567				0.00	CVB-S2-03	20/3	12 **	**37**	**A**	**38**	12 **	20/3	CVB-S3-07				1967				0.00
			1567				0.00	-	-	-	**39**	**B**	**40**	-	-	-				1967				0.00
			1567				0.00	-	-	-	**41**	**C**	**42**	-	-	-			526	1967				0.00
			1833				0.00	CVB-S2-04	20/3	12 **	**43**	**A**	**44**	10	25/3	RTU-S3			5540					0.00
		526	1833				0.00	-	-	-	**45**	**B**	**46**	-	-	-			5540					0.00
			1833				0.00	-	-	-	**47**	**C**	**48**	-	-	-			5540					0.00
		8310					0.00	RTU-S1	35/3	8	**49**	**A**	**50**			SPACE								0.00
		8310					0.00	-	-	-	**51**	**B**	**52**			SPACE								0.00
		8310					0.00	-	-	-	**53**	**C**	**54**			SPACE								0.00
		8310					0.00	RTU-S2	35/3	8	**55**	**A**	**56**			SPACE								0.00
		8310					0.00	-	-	-	**57**	**B**	**58**			SPACE								0.00
		8310					0.00	-	-	-	**59**	**C**	**60**			SPACE								0.00
0	0	54835	59400	0	0	0	0.00	**TOTALS**								**TOTALS**	0	0	18941	20600	0	0	0	0.00

LOAD SUMMARY								
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	0.0	73.8	80.0	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	0.0	73.8	80.0	0.0	0.0	0.0	0.0	Design KVA

Phase Load	
Ph	KVA
A	26.7
B	26.5
C	28.1

Panel Remarks:
**: CIRCUITS SHALL BE PROVIDEED WITH A NEUTRAL.

*Input div...
**100% o...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	153.8	185.0		153.8	185.0

PANEL: **1HS2**
Date: 1/17/2025 By: TLG 10/22/03

Job: HUMBLE HS PHASE 2
Job No. 220537
Mounting **SURFACE**
Main Type **MCB (400A)**
Neutral **200%**
Voltage: **208Y/120V-3PH 4W**
Main Size: **400 AMPS**
AIC Rating **10000**
Ground **Equipment Ground**
Lugs **FEED THRU**

2
2

PANEL: **1LS1**

									ALL LOADS IN VA															
Ltg.	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
					750		0.00	CLASS RM PC/PROJ	20/1	12	**1**	**A**	**2**	12	20/1	AC AT SHAMPOO STATION		1000						0.00
	540						0.00	CLASS RM 3 REC	20/1	12	**3**	**B**	**4**	12	20/1	AC AT SHAMPOO STATION		1000						0.00
	540						0.00	CLASS RM 3 REC	20/1	12	**5**	**C**	**6**	12	20/1	AC AT SHAMPOO STATION		1000						0.00
					300		0.00	MOTORIZED SHADES	20/1	12	**7**	**A**	**8**	12	20/1	AC AT SHAMPOO STATION		1000						0.00
							1.00	SPARE	20/1		**9**	**B**	**10**	12	20/1	AC AT SHAMPOO STATION		1000						0.00
					750		0.00	CLASS RM PC/PROJ	20/1	12	**11**	**C**	**12**	12	20/1	AC AT SHAMPOO STATION		1000						0.00
	540						0.00	CLASS RM 3 REC	20/1	12	**13**	**A**	**14**	12	20/1	AC AT SHAMPOO STATION		1000						0.00
	540						0.00	CLASS RM 3 REC	20/1	12	**15**	**B**	**16**	12	20/1	PEDICURE STATION		1500						0.00
					300		0.00	MOTORIZED SHADES	20/1	12	**17**	**C**	**18**	12	20/1	PEDICURE STATION		1500						0.00
							1.00	SPARE	20/1		**19**	**A**	**20**	12	20/1	PEDICURE STATION		1500						0.00
	720						0.00	COSMO LAB 4 REC	20/1	12	**21**	**B**	**22**	12	20/1	PEDICURE STATION		1500						0.00
	900				250		0.00	COSMO LAB 5 REC/TV	20/1	12	**23**	**C**	**24**	12	20/1	PEDICURE STATION		1500						0.00
					750		0.00	OFFICE/RECPTION 3 PC	20/1	12	**25**	**A**	**26**	12	20/1	PEDICURE STATION		1500						0.00
	720						0.00	EXTERIOR 4 REC	20/1	12	**27**	**B**	**28**	12	20/1	PEDICURE STATION		1500						0.00
							1.00	SPARE	20/1		**29**	**C**	**30**	12	20/1	PEDICURE STATION		1500						0.00
							1.00	SPARE	20/1		**31**	**A**	**32**	12	20/1	PEDICURE STATION		1500						0.00
							1.00	SPARE	20/1		**33**	**B**	**34**	12	20/1	NAIL TECH STATION		1000						0.00
							1.00	SPARE	20/1		**35**	**C**	**36**	12	20/1	NAIL TECH STATION		1000						0.00
							0.00	SPD	30/3	10	**37**	**A**	**38**		20/1	SPARE								1.00
							0.00	-	-	-	**39**	**B**	**40**		20/1	SPARE								1.00
							0.00	-	-	-	**41**	**C**	**42**		20/1	SPARE								1.00
0	4500	0	0	0	3100	0	6.00	**TOTALS**								**TOTALS**	0	22500	0	0	0	0	0	3.00

PANEL: **1LS1** **2** **(Section...**

									ALL LOADS IN VA															
Ltg.	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
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**43**	**A**	**44**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**45**	**B**	**46**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**47**	**C**	**48**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**49**	**A**	**50**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**51**	**B**	**52**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**53**	**C**	**54**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**55**	**A**	**56**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**57**	**B**	**58**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**59**	**C**	**60**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**61**	**A**	**62**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**63**	**B**	**64**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**65**	**C**	**66**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**67**	**A**	**68**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**69**	**B**	**70**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**71**	**C**	**72**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	1500						0.00	COSMO LAB WRK STATION	20/1	12	**73**	**A**	**74**	12	20/1	COSMO LAB WRK STATION		1500						0.00
							1.00	SPARE	20/1		**75**	**B**	**76**	12	20/1	COSMO LAB WRK STATION		1500						0.00
	540						0.00	ROOF REC	20/1	12	**77**	**C**	**78**	12	20/1	COSMO LAB WRK STATION		1500						0.00
		1180					0.00	EF-S-01	20/1	12	**79**	**A**	**80**		20/1	SPARE								1.00
		700					0.00	EF-S-02	20/1	12	**81**	**B**	**82**	10	25/2	ACCU-IDF -9124			1466					0.00
		530					0.00	EF-S-03	20/1	12	**83**	**C**	**84**	-	-	-			1466					0.00
0	24540	2410	0	0	0	0	1.00	**TOTALS**								**TOTALS**	0	27000	2933	0	0	0	0	1.00

LOAD SUMMARY								
Ltg.	Recept	Motor	Heat	Cool	Other	Kitchen	S/S	Description
0.0	111.5	5.7	0.0	0.0	23.3	0.0	22.0	Connected KVA
1.25	**	1.00	1.00	1.00	1.00	0.65	0.50	*Design Factors
0.0	60.8	5.7	0.0	0.0	23.3	0.0	11.0	Design KVA

Phase Load	
Ph	KVA
A	29.0
B	28.7
C	29.3

Panel Remarks:

*Input div...
**100% o...

	Con. KVA	Con. Amps		Des. KVA	Des. Amps
TOTAL	162.5	451.1		100.8	279.7

PANEL: **1LS1**
Date: 1/17/2025 By: TLG 10/22/03

PBK

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MEPT
LEAF ENGINEERS
T 713-940-3300

LEAF ENGINEERS

HUMBLE HIGH SCHOOL ADDITIONS & RENOVATIONS - PHASE TWO

1700 WILSON RD
HUMBLE, TX 77338
ISSUE FOR PROPOSAL
CSP: 2025-09

HUMBLE INDEPENDENT SCHOOL DISTRICT
HUMBLE, TEXAS
HARRIS COUNTY

KEY PLAN
NORTH: PLAN TRUE

DONALD C. RICHARDS
61525
12/18/2024
LEAF ENGINEERS
F-18672

CLIENT
HUMBLE ISD

DATE	PROJECT NUMBER
12/18/2024	220537

DRAWING HISTORY

No.	Description	Date
2	Addendum #2	1/17/2024

ISSUE FOR PROPOSAL

BUILDING NUMBER **n/a**

ELECTRICAL PANEL SCHEDULES

E-703

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DRAWN BY:
TLG
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