DOCUMENT 00 90 00 ADDENDUM

ADDENDUM NO. [2] Date: January 5, 2022

RE: SCHOOL DISTRICT OF ABBOTSFORD ABBOTSFORD SCHOOL DISTRICT FEMA ADDITION 510 WEST HEMLOCK STREET ABBOTSFORD, WISCONSIN 54405 HSR PROJECT NO. 21027

FROM: HSR Associates, Inc 100 Milwaukee Street La Crosse, WI 54603 (608) 784-1830

To: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated December 2021. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of [3] pages, [1] document, [2] specification sections, and [12] 30 x 42 drawings.

CHANGES TO PRIOR ADDENDA:

- 1. <u>Sheet C1.0 DEMOLITION PLAN</u> see changes listed below.
- 2. Sheet A101 FLOOR PLANS see changes listed below.
- 3. <u>Sheet A200 EXTERIOR ELEVATIONS</u> see changes listed below.
- 4. <u>Sheet A300 SECTIONS</u> see changes listed below.
- 5. <u>Sheet S810 FRAMING DETAILS</u> see changes listed below.
- 6. <u>Sheet P001 PLUMBING GENERAL NOTES</u> see changes listed below.

CHANGES TO BIDDING REQUIREMENTS AND CONDITIONS OF THE CONTRACT:

- 7. Document 00 73 00 Supplementary Conditions revised document attached.
 - a. Added sub-article 8.3.1.1 to clarify wording regarding delayed deliveries and temporary utilities.

CHANGES TO SPECIFICATIONS:

- 8. <u>Section 07 42 13.19 Insulated Metal Wall Panels</u> revised document attached.
 - a. Revised 2.02.A.2&3 to make the specification match the drawing.
- 9. <u>Section 11 66 23 Gymnasium Equipment</u> revised document attached.
 - a. Revised 2.04 A.5.a to include IPI by Bison as a listed manufacturer.
 - b. Revised 2.06 A.5.b to include IPI by Bison as a listed manufacturer.
- 10. <u>Section 23 09 93 Sequence of Operations</u> changes listed below.
 - a. 3.09 EXHAUST FAN CONTROL 23 34 23
 - i. EF-2 shall be controlled from AHU-1 Schedule.

- 11. <u>Section 26 09 17 Programmable Lighting Controls</u> changes listed below.
 - a. Replace Products section with the following:

"PART 2: PRODUCTS

2.01 MANUFACTURER

- **A.** Lighting Control and Design
- B. Nex-Lite
- C. Watt Stopper
- **D.** Hubbell Lighting Automation
- E. Lithonia, Synergy Lighting Control
- F. ILC- Intelligent Lighting Controls
- G. Leviton
- H. Substitutions: Under provisions of Section 01 63 00."

CHANGES TO DRAWINGS

- 12. <u>Sheet C1.0 DEMOLITION PLAN</u> revised 30 x 42 sheet attached hereto.
 - a. Revised key notes 11 & 25.
 - b. See clouded changes on plan.
- 13. <u>Sheet C6.1 DEMOLITION PLAN</u> revised 30 x 42 sheet attached hereto.
 - a. See clouded note regarding bollard cover.
- 14. <u>Sheet A101 FLOOR PLANS</u> revised 30 x 42 sheet attached hereto. a. Relocated door F115.2.
- 15. <u>Sheet A200 EXTERIOR ELEVATIONS</u> revised 30 x 42 sheet attached hereto. a. Change dimension of louver and relocated door.
- 16. <u>Sheet A300 SECTIONS</u> revised 30 x 42 sheet attached hereto.
 - a. Relocated mechanical equipment at the roof.
 - b. Added wall type callouts in building section #2.
- 17. <u>Sheet A600 WALL TYPES</u> revised 30 x 42 sheet attached hereto.
 - a. Added masonry anchor note to wall types A1 and A2.
- 18. <u>Sheet S810 FRAMING DETAILS</u> revised 30 x 42 sheet attached hereto.
 - a. Revised clouded note in Detail 5/S810.
- 19. <u>Sheet P001 PLUMBING GENERAL NOTES</u> revised 30 x 42 sheet attached hereto.
 - a. Updated Plumbing Fixture Schedule with mounting heights and water closed model numbers.
 - b. Updated Fixture Unit Summary fixture counts.
- 20. <u>Sheet P101 FLOOR PLAN</u> revised 30 x 42 sheet attached hereto.
 - a. Revised sink designation from S-1 to S2.
 - b. Added note regarding Cyclone roof penetrations.
 - c. Added note regarding coordination with underground LP supplier.
- 21. <u>Sheet M100 FIRST FLOOR REMODEL PLAN</u> revised 30 x 42 sheet attached hereto.
 - a. Added FEMA Rated wall shroud for pipe penetrations at Storage F103.
 - b. Added EF-2 fan serving Mechanical F115 mop basin.
- 22. Sheet M200 ENLARGED UPPER LEVEL PLAN revised 30 x 42 sheet attached hereto.
 - a. Added louver L-9, with gravity backdraft damper and 8"x8" duct from EF-2 below.
 - b. Revised size of L-1.
- 23. <u>Sheet M601 HVAC SCHEDULES</u> revised 30 x 42 sheet attached hereto.
 - a. Louver Schedule: Revised L-1 size, added L-9.
 - b. Exhaust Fan Schedule: Added EF-2.

PRIOR APPROVALS

- 24. Section 23 21 16 HYDRONIC SPECIALTIES
 - a. 2.09 WATER FILTERS i. Harmsco HIF
- 25. Section 23 23 00 REFRIGERANT PIPING SYSTEM
 - a. 2.02 FITTINGS
 - i. Nibco ACR
- 26. Section 23 37 50 METAL LOUVERS: STATIONARY
 - a. 2.01 LOUVERS
 - i. Pottorff
- 27. Section 23 52 16 CONDENSING BOILERS
 - a. 2.01 MODULAR BOILER-BURNER UNITS
 - i. Camus

END OF DOCUMENT 00 90 00

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SECTION 00 73 00 SUPPLEMENTARY CONDITIONS

GENERAL

APPLICATION

The following amendments modify, delete and add to AIA document A201-2017 General Conditions. Where any article, paragraph or subparagraph in the general conditions is supplemented by one of the following paragraphs, the provisions of such article, paragraph or subparagraph shall remain in effect and the supplemental provisions shall be considered as added thereto. Where any article, paragraph or subparagraph of the general conditions is not supplemented, amended, voided or superseded by any of the following paragraphs, the provisions of such article, paragraph or subparagraph not so amended, voided or superseded shall remain in effect.

DOCUMENTS INCLUDED IN THE SUPPLEMENTARY CONDITIONS:

Document 00 73 16 Insurance Requirements

Document 00 73 17 Bond Requirements

Document 00 73 43 Wage Rates Requirements

Document 00 73 46 Wage Determination Schedule

Document 00 73 73 Statutory Requirements

ARTICLE 1

1.1.3

Add the following sentence to the end of the existing sub-article:

"The word 'provide' shall also be understood to require 'furnish and install'."

1.1.4

Add the following sentence to the end of the existing sub-article:

"A detailed description of the Project can be found in Document 00 11 13."

1.2.3

After 1.2.3, insert the following new sub-articles:

"1.2.4 Where a number is listed in the Project Manual (as for gauges, weights, temperatures, amount of time, etc.) the number shall be interpreted as that or better."

"1.2.5 Whenever the words 'approved', 'satisfactory', 'directed', 'submitted', 'inspected', or similar words or phrases are used in the product specification sections, it shall be assumed that the words 'Architect/Engineer or Architect/Engineer's representative' follows the verb as the object of the clause, such as 'approved by the Architect/Engineer or Architect/Engineer's representative'."

ARTICLE 2

2.1.2

After 2.1.2, insert the following new sub-article:

"2.1.3 Refer to Document 00 22 13 for a detailed description of the Owner."

ARTICLE 3

3.3.3

After 3.3.3, insert the following new sub-article:

"3.3.4 Refer to Section 01 40 00 for detailed quality control requirements."

3.5.1

Add the following sentence to the end of the existing sub-article:

"Refer to Article 12 to see the time frame for correcting defective Work."

After 3.5.1, insert the following new sub-article:

"3.5.1.1 Where the Contract Documents require Work better than that required by statute, the Contract Documents shall govern."

3.7.1

Add the following sentence to the end of the existing sub-article:

"Contractor shall provide permits for driveway/curb-cuts, and cost for relocation of light poles and tree."

3.7.4

In 3.7.4, change "14 days after first observance" to "10 days after first observance"

3.8.3

After 3.8.3, insert the following new sub-article:

"3.8.4 Refer to Section 01 21 00 for detailed description of allowances."

3.12.6

After 3.12.6, insert the following new sub-articles:

".1 Contractor shall use a verification stamp with signature and date to signify Contractor's approval of Shop Drawings."

".2 Refer to Sections 01 30 00, 01 40 00 and 01 60 00 for detailed submittal information."

3.14.2

After 3.14.2, insert the following new sub-article:

"3.14.3 Refer to Section 01 70 00 for detailed cutting and patching requirements."

ARTICLE 4

4.1.1

Add the following sentence to the end of the existing sub-article:

"Wherever the term 'Architect' appears, it shall be changed to 'Architect/Engineer (AE)'."

After 4.1.1, insert the following new sub-article:

".1 Refer to Document 00 21 13 for a detailed description of the AE and any applicable consultants."

ARTICLE 5

5.2.1

Delete the first sentence of the existing sub-article:

"Unless otherwise stated in Contract Documents, the Contractor, as soon as practicable after award of the Contract, shall notify the Owner and Architect of the persons or entities proposed for each principal portion of the Work, including those who are to furnish materials or equipment fabricated to a special design."

Replace with:

"The successful bidder, within 10 calendar days from notification of selection for award of contract, shall furnish in writing to the Owner through the Architect a listing of major subcontractors and suppliers, their addresses, phone numbers, and the portions of the work which they will perform."

ARTICLE 7

7.2.1

After sub-article 7.2.1, insert the following new sub-article:

"7.2.2 Refer to Section 01 20 00 and 7.3.4 below for detailed change order procedures."

7.3.3.2

Delete the text of existing sub-article:

"Unit prices stated in the Contract Documents or subsequently agreed upon;"

Replace with:

"Unit prices stated in the Contract Documents including Section 01 22 00 or subsequently agreed upon;"

7.3.4

In the first sentence of 7.3.4, change "a reasonable amount." to "an allowance for overhead and profit in accordance with percentage fee stated in Subparagraph 7.3.11 below."

7.3.10

After 7.3.10, insert the following new sub-article:

"7.3.11 In Subparagraphs 7.3.3 and 7.3.4 the percentage fee allowance for the combined overhead and profit included in the total cost to the Owner shall be based on the following schedule:

.1 for the Contractor, for Work performed by the Contractor's own forces, 10 percent of the cost.

.2 for the Contractor, for Work performed by the Contractor's Subcontractor, 7 percent of the amount due the Subcontractor.

.3 for each Subcontractor or Sub-subcontractor involved, for Work performed by that Subcontractor's or Sub-subcontractor's own forces, 7 percent of the cost.

.4 for each Subcontractor, for Work performed by the Subcontractor's Sub-subcontractor, 5 percent of the amount due the Sub-subcontractor.

.5 In order to facilitate checking of quotations for extras or credits, all proposals, except those so minor that their propriety can be seen by inspection, shall be accompanied by a complete itemization of costs including labor, materials and Subcontracts. Labor and materials shall be itemized in manner prescribed above. Where major cost items are subcontracts, they shall be itemized also. In no case will a change involving over \$500.00 be approved without such itemization."

A Bulletin is a written document prepared by the Architect/Engineer as a statement of changes in the scope of Work which may or may not change the Contract Amount or Time. The Contractor

shall return the executed Bulletin to the Architect/Engineer on or before the date stated in the

adjustment to the Contract Amount and the Contract Time. All Bulletin items shall subsequently

Bulletin stating Contractor's agreement to change the Scope of Work and any proposed

7.4

After 7.4, insert the following new sub-article:

"7.5 Bulletins

Sub-Article added in Addendum #2

ARTICLE 8

8.3.1

After 8.3.1, insert the following new sub-article:

be recorded on a Change Order."

".1 The wording in sub-article 8.3.1 "unusual delay in deliveries", will be interpreted by the Architect in relation to the current commercial environment which includes unusually-lengthened and volatile lead times and supply shortages of various products. In this commercial environment, the Contractor shall take any needed measures to comply with the project's substantial completion requirements and any intermediate schedule targets the Contractor may apply to the Contractor's own work. Sub-article 8.3.1 does not permit the contractor to request increases to the contract sum due to delayed deliveries within the Contractor's scope. Requests for increases to the contractor's scope will not be accepted by the Owner."

ARTICLE 9

9.2

After 9.2, insert the following new sub-article:

"9.2.1 Refer to Section 01 20 00 for detailed schedule of values requirements."

9.3.1

Delete the first sentence of the existing sub-article:

"At least ten days before the date established for each progress payment, the Contractor shall submit to the Architect an itemized Application for Payment prepared in accordance with the schedule of values, if required under Section 9.2, for completed portions of the Work."

Replace with:

Submission of Applications for Payment shall follow sub-article 9.6 of the Supplementary Conditions.

9.6.8

After 9.6.8, insert the following new sub-article:

"9.6.9 Based upon Applications for Payment submitted to the Architect by the Contractor, the Owner shall make progress payment on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

.1 The period covered by each Application for Payment shall be on the 25th day of the month. **.2** Provided an Application for Payment is received by the Architect not later than the 25th day of a month, the Owner shall make payment to the Contractor not later than the 25th day of the following month. If an Application for Payment is received by the Architect after the application date fixed above, payment shall be made by the Owner not later than 60 days after the Architect receives the Application for Payment.

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

.4 Applications for Payment shall indicate the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

.5 Subject to the provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

.6 The progress payment amount determined in accordance with Paragraph 9.6.9.5 shall be further modified per Paragraph 9.6.9.6.1 of the Supplementary Conditions.

.6.1 Upon Substantial Completion of the Work, retainage to remain at 5% of Contract Sum until the Contract is closed out. This amount MAY be reduced to a lower percentage or lump sum if agreed to by Owner, Contractor and A/E.

.7 Reduction or limitation of retainage, if any, shall be per Paragraph 9.6 of the Supplementary Conditions."

9.8.5

After 9.8.5, insert the following new sub-article:

"9.8.6 Failure to reach final completion within 60 days from total Substantial Completion of the Project shall be cause to terminate the Contract and the Contractor's surety shall be notified accordingly."

9.10.1

After 9.10.1, insert the following new sub-articles:

".1 Upon completion of the Final Inspection if the Work is not acceptable and the Contract not fully performed, the AE will notify the Contractor, in writing, of all unfinished Work and fix the time within which the Contractor shall complete the items listed. Upon notification by the Contractor that the list of uncompleted items is complete, the AE will make a follow-up inspection trip."

".2 Time spent by the AE to follow-up on such unfinished Work to determine that the Contractor has fully performed the Contract shall be paid for by the Contractor on the basis of the AE's regular hourly rate schedule for supplementary services and reimbursable expenses as stated in the AE's agreement for services with the Owner."

".3 Payment for all such additional services required of the AE will be deducted from the balance due the Contractor, duly noted on the final Certificate for Payment and paid by the Owner directly to the AE."

9.10.5

After 9.10.5, insert the following new sub-article:

"9.10.6 Refer to Section 01 78 00 for detailed Contract closeout procedures."

ARTICLE 11

11.1.1

After 11.1.1, insert the following new sub-article:

".1 Refer to Supplementary Conditions for requirements and coverages for bonds and insurance."

11.2.1

After 11.2.1, insert the following new sub-article:

Added in Addendum #2

".1 The Contractor shall provide and maintain Property Insurance to cover the deductible of the Owner's property insurance in the amount of \$1,000 of loss on any claim, or provide evidence satisfactory to the Owner that the Contractor shall pay for all such losses not covered by the Owner against the same peril as described for the Owner's Property Insurance."

ARTICLE 12

12.2.2.1

In 12.2.2.1, change the words "one year" in the first sentence to "two years".

12.2.2.2

In 12.2.2.2, change the words "one-year" in the first sentence to "two-year".

12.2.2.3

In 12.2.2.3, change the words "one-year" in the first sentence to "two-year".

END OF SECTION

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SECTION 07 42 13.19

INSULATED METAL WALL PANELS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Factory-assembled metal panel system for walls, with trim, vertical supports (hat channel, etc.), related flashings and accessory components.

1.02 RELATED REQUIREMENTS

- A. Applicable provisions of Division 1 shall govern the work of this section.
- B. Section 03 45 00 Precast Architetural Concrete: Structural Substrate

1.03 REFERENCE STANDARDS

 A. ASTM D1621 - Standard Test Method for Compressive Properties Of Rigid Cellular Plastics; 2016.

1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements for submittal procedures.
- B. Product Data: Provide manufacturer documentation on tested structural, thermal, and fire resistance capabilities of assembled panel.
- C. Shop Drawings: Indicate dimensions, panel profile and layout, spans, joints, construction details, and methods of anchorage.
- D. Samples for Selection: Submit 4" x 4" color samples for selection.
- E. Samples: Submit two samples of panel, 12 by 12 inch in size illustrating finish color, sheen, and texture.
- F. Design and Performance Data: Indicate panel profile and dimensions.
- G. Manufacturer's Installation Instructions: Indicate special handling criteria, installation sequence, and cleaning procedures.
- H. Warranty Documentation for Installation of Building Rainscreen Assembly: Submit installer warranty and ensure that forms have been completed in Owner's name and registered with installer.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this Section with minimum three years documented experience.
- B. Installer Qualifications: Company specializing in performing the work of this Section with minimum 5 years experience.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Protect panels from accelerated weathering by removing or venting sheet plastic shipping wrap.
- B. Store pre-finished material off ground with weather protection to prevent twisting, bending, or abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.
- C. Prevent contact with materials that could cause discoloration or staining.

1.07 WARRANTY

- A. Correct defective work within a twenty year period after Date of Substantial Completion for degradation of panel finish, including color fading caused by exposure to weather.
- B. Correct defective work within a two year period after Date of Substantial Completion, including defects in water tightness and integrity of seals for insulated metal wall panels.

PART 2 PRODUCTS

2.01 PANEL SYSTEM

- A. Metal Panel System: Factory-assembled metal panel system, with trim, related flashings and accessory components.
 - 1. Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.
 - 2. Accommodate tolerances of building structural framing.
- B. Performance Requirements:
 - 1. Thermal Performance: Provide thermal resistance through entire system; R-value of 14 deg F hr sq ft/Btu, minimum.
 - 2. Structural Performance: Design and size to withstand all dead loads and wind loads caused by positive and negative wind pressure acting normal to plane of panel.
 - a. Verify structural performance in accordance with ASTM E330/E330M, using test pressure 1.5 times design wind pressure, with 10 seconds duration of maximum load.
 - 3. Movement: Accommodate the movement caused by the following without damage to system, components, or deterioration of seals:
 - a. Normal movement between system components.
 - b. Seasonal temperature cycling.
 - c. Deflection of structural support framing,

2.02 PANELS AND TRIM

- A. Wall Panels: Exterior and interior metal sheet skin, factory-assembled, with foamed in place insulation; exterior and interior sheet interlocking at edges, filled with sealant. Hidden fasteners.
 - 1. Panel Width: 42 inch.
 - 2. Profile: As indicated; horizontal panels.
 - 3. Panel Thickness: 2 inch.
 - 4. Exterior Sheet: Pre-finished galvanized steel, 22 gauge, 0.0299 inch minimum base metal thickness; match wall panels at building.
 - 5. Exterior Finish: Polyvinylidene fluoride (PVDF) coating; color as selected from manufacturer's standard range.
 - 6. Interior Finish: Silicone polyester coating; color as selected from manufacturer's standard range.
- B. Trim, Closure Pieces, Expansion Joints, Caps, Flashings, Fascias, and Infills: Same material, thickness and finish as exterior sheets; factory-fabricated to required profiles; fabricated in longest practicable lengths.
 - 1. Exposed Fasteners: Not permitted except for pop rivets at trim.
 - 2. Profiles: To suit system.

2.03 PANEL MATERIALS

- A. Foamed-in-Place Insulation: Polyisocyanurate type.
 - 1. Compressive Strength: 19 psi, when tested in accordance with ASTM D1621.
- B. Panel Sealants: Manufacturer's recommended type compatible with product materials and exterior performance.

2.04 ACCESSORIES

A. Fasteners: Manufacturer's standard.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that structural substrate is ready to receive panel system.

3.02 INSTALLATION

A. Install panel system on walls in accordance with manufacturer's instructions.

- B. Permanently fasten panel system to structural supports; aligned, level, and plumb, within specified tolerances.
- C. Locate panel joints over supports.
- D. Use concealed fasteners unless otherwise approved by Architect.
- E. Seal and place gaskets to prevent weather penetration. Maintain neat appearance.

3.03 CLEANING

- A. Remove site cuttings from finish surfaces.
- B. Clean and wash prefinished surfaces with mild soap and water; rinse with clean water.

END OF SECTION

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SECTION 11 66 23 GYMNASIUM EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Basketball backboards, goals, and support framing.
- B. Gym/Wresting mat lifter
- C. Floor sleeves for net and goal posts.
- D. Volleyball nets and posts.
- E. Mounting hardware and adapters betwen work of this section and substates.

1.02 RELATED REQUIREMENTS

- A. Section 03 30 00 Cast-in-Place Concrete: Concrete floor slab to receive floor sleeves and anchors.
- B. Section 03 41 00 Precast Strucutural Concrete: Substrate for ceiling mounted items
- C. Section 03 45 00 Precast Architectural Concrete: Substrate for wall mounted items
- D. Section 09 65 66 Resilient Athletic Flooring: Gymnasium flooring.
- E. Division 26 Equipment Wiring

1.03 REFERENCE STANDARDS

- A. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials; 2016.
- B. AWS D1.1/D1.1M Structural Welding Code Steel; 2015 (Errata 2016).
- C. NFPA 70 National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.
- D. NFPA 101 Life Safety Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 SUBMITTALS

- A. See Section 01 30 00 Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's data showing configuration, sizes, materials, finishes, hardware, and accessories; include:
 - 1. Electrical characteristics and connection locations.
 - 2. Fire rating certifications.
 - 3. Manufacturer's installation instructions.
- C. Shop Drawings: For custom fabricated equipment indicate, in large scale detail, construction methods; method of attachment or installation; type and gauge of metal, hardware, and fittings; plan front elevation; elevations and dimensions; minimum one cross section; utility requirements as to types, sizes, and locations.
- D. Samples: Submit samples of backboard pad coverings in manufacturer's available range of colors.
- E. Operating and maintenance data for each operating equipment item.
- F. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified with minimum 3 years of experience.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to project site in manufacturer's original packaging with factory original labels attached.
- B. Store products indoors and elevated above floor; prevent warping, twisting, or sagging.
- C. Store products in accordance with manufacturer's instructions; protect from extremes of weather, temperature, moisture, and other damage.

1.07 PROJECT CONDITIONS

- A. Coordinate size of access and route to place of installation.
- B. Coordinate equipment installation with size, location, and installation of service utilities.

1.08 WARRANTY

- A. See Section 01 78 00 Closeout Submittals, for additional warranty requirements.
- B. Provide manufacturer's standard warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Gymnasium Equipment:
 - 1. Draper, Inc: www.draperinc.com/#sle.
 - 2. IPI by Bison, Inc: www.ipibybison.com/#sle.
 - 3. Performance Sports Systems: www.perfsports.com.
 - 4. Porter Athletic Equipment Company: www.porterathletic.com.
 - 5. Schelde North America: www.sheldesports.com
 - 6. Spalding: www.spaldingequipment.com
 - 7. Jaypro Sports Equipment: www.jaypro.com
 - 8. AALCO Athletic Equipment: www.aalcomfg.com
 - 9. ADP Lemco: www.adplemco.com
 - 10. N.G.E. Inc.: www.mathoist.com
 - 11. Substitutions: See Section 01 60 00 Product Requirements.

2.02 GENERAL REQUIREMENTS

- A. See drawings for sizes and locations, unless noted otherwise.
- B. Where mounting dimensions or sizes are not indicated, comply with applicable requirements of the following:
 - 1. National Federation of State High School Associations (NFHS) sports rules.
- C. Provide mounting plates, brackets, and anchors of sufficient size and strength to securely attach equipment to building structure; comply with requirements of Contract Documents.
- D. Hardware: Heavy duty steel hardware, as recommended by manufacturer.
- E. Electrical Wiring and Components: Comply with NFPA 70; provide UL-listed equipment.
- F. Structural Steel Fabrications: Welded in accordance with AWS D1.1/D1.1M, using certified welders.

2.03 CONTROLLER

- A. Manufacturer's standard wall mounted touch pad controller with capacity to control all items specified.
 - 1. Basis of Design: Wall mounted Draper EZ Pad Plus.
 - a. Controller to control all operable gym equipment identified in drawings.
 - b. Controller to permit multiple passwords.

2.04 BASKETBALL

- A. Wall-Mounted Backstop Assemblies: Wall-mounted steel frame assembly capable of mounting both rectangular and fan-shaped backboards.
 - 1. Framing: Stationary framing.

- 2. Height Adjuster: Raises or lowers assembly by 2 feet to adjust goal height.
- 3. Framing Color: As selected from manufacturer's standard selection.
- 4. Basis of Design: Draper, EZ-Fold SW with manual height adjuster 503092.
- 5. Manufacturers:
- —— Added in Addendum #2
- a. IPI by Bison, Inc. Add b. PSS Performance Sports Systems
- c. Spalding Equipment
- d. Jaypro Sports Equipment
- e. Porter
- f. Substitutions: See Section 01 60 00 Product Requirements.
- B. Ceiling-Suspended Backstop Assemblies: Capable of mounting both rectangular and fanshaped backboards.
 - 1. Framing: Center strut; forward folding framing.
 - 2. Folding Control System: Electric hoist; folds backstop with 115 volt/1/2 hp 11 amp actuator; integral limit switches provide automatic shut-off in both positions; provide safety catch with automatic reset. Each unit has its own separate switch and motor. Mounting height to approximately 25 feet
 - 3. Height Adjuster-Side Court Assemblies Only: To raise/lower assembly by 2 feet to adjust goal height. Manual operation
 - 4. Framing Color: As selected from manufacturer's standard selection.
 - 5. Basis of Design: Draper EZ Fold TF-20 with manual height adjuster 503092.
 - 6. Manufacturers:
 - a. PSS Performance Sports Systems
 - b. Spalding Equipment
 - c. Jaypro Sports Equipment
 - d. Porter
 - e. Substitutions: See Section 01 60 00 Product Requirements.
- C. Backboards: Tempered glass, rectangular shaped.
 - 1. Frame: Brushed aluminum edge, steel mounting.
 - 2. Dimensions: 42 inches high by 72 inches wide
 - 3. Provide safety padding for bottom edge of backboard. Color as selected by A/E
 - 4. Provide mounting kit.
 - 5. Basis of Design: Draper Model EZ-Fold 503136 with Padding 5032XX kit.
 - 6. Manufacturers:
 - a. PSS Performance Sports Systems
 - b. Spalding Equipment
 - c. Jaypro Sports Equipment
 - d. Porter
 - e. Substitutions: See Section 01 60 00 Product Requirements.
- D. Goals: Steel rim, mounted to backboard, with attached nylon anti-whip net; complete with mounting hardware.
 - 1. Net Attachment Device: Tube-tie.
 - 2. Breakaway mechanism, adjustable.
 - 3. Finish: Powder coat orange.
 - 4. Basis of Design: Draper, Breakaway Basketball Goal 503576
 - 5. Manufacturers:
 - a. Draper Inc.
 - b. PSS Performance Sports Systems
 - c. Spalding Equipment
 - d. Jaypro Sports Equipment
 - e. Porter
 - f. Substitutions: See Section 01 60 00 Product Requirements.

2.05 WRESTLING MAT LIFT

- A. Stationary Mat Lift
 - 1. Hoist shall consist of structural integrity for a double mat lift.
 - 2. Motor as required by manufacturer's standard model.
 - 3. Housing shall enclose gear drive, motor shaft and related equipment.
 - 4. Type: Wall mount
 - 5. Accessories: Include all accessories and attachment to mount lift to the wall.
 - 6. Basis of Design Draper: Double Mat Lifter 502061.
 - 7. Manufacturers:
 - a. Porter
 - b. MatHoist
 - 8. Substitutions: See Section 01 60 00 Product Requirements

2.06 VOLLEYBALL EQUIPMENT (PROVIDE 1 COMPLETE SYSTEM)

- A. Floor Sleeves for Posts: Metal sleeve, with latch cover, cast into concrete subfloor to hold poles for nets and goals; installed flush with finish floor surface.
 - 1. Latch Cover: Brass, round; tamper resistant lock with key.
 - 2. Sleeve: Aluminum.
 - 3. Depth of Sleeve: 9 inches from floor surface to bottom, including latch cover.
 - 4. Basis of Design: Collegiate 4000 manufactured by Schelde North America. www.scheldesports.com
 - 5. Manufacturers:
 - a. Draper Inc.
 - b. IPI by Bison, Inc. 3 Added in Addendum #2
 - c. PSS Performance Sports Systems
 - d. Spalding Equipment
 - e. Jaypro Sports Equipment
 - f. Porter
 - g. Substitutions: See Section 01 60 00 Product Requirements.
 - 6. Each package shall include protective pads, net, and one pair of net antennas with sideline markers.
- B. Judges Stand: (One) RS400 Free Standing with safety pads by Schelde North America

PART 3 EXECUTION

3.01 EXAMINATION

- A. Take field measurements to ensure proper fitting of work. If taking field measurements before fabrication will delay work, allow for adjustments within recommended tolerances.
- B. Inspect areas and conditions before installation, and notify Architect in writing of unsatisfactory or detrimental conditions.
- C. Do not proceed with this work until conditions have been corrected; commencing installation constitutes acceptance of work site conditions.
- D. Verify that electrical services are correctly located and have proper characteristics.

3.02 INSTALLATION

- A. Install in accordance with Contract Documents and manufacturer's instructions.
- B. Coordinate installation of inserts and anchors that must be built in to flooring or subflooring.
- C. Install equipment rigid, straight, plumb, and level.
- D. Secure equipment with manufacturer's recommended anchoring devices.
- E. Install wall padding securely, with edges tight to wall and without wrinkles in fabric covering.
- F. Separate dissimilar metals to prevent electrolytic corrosion.

3.03 ADJUSTING

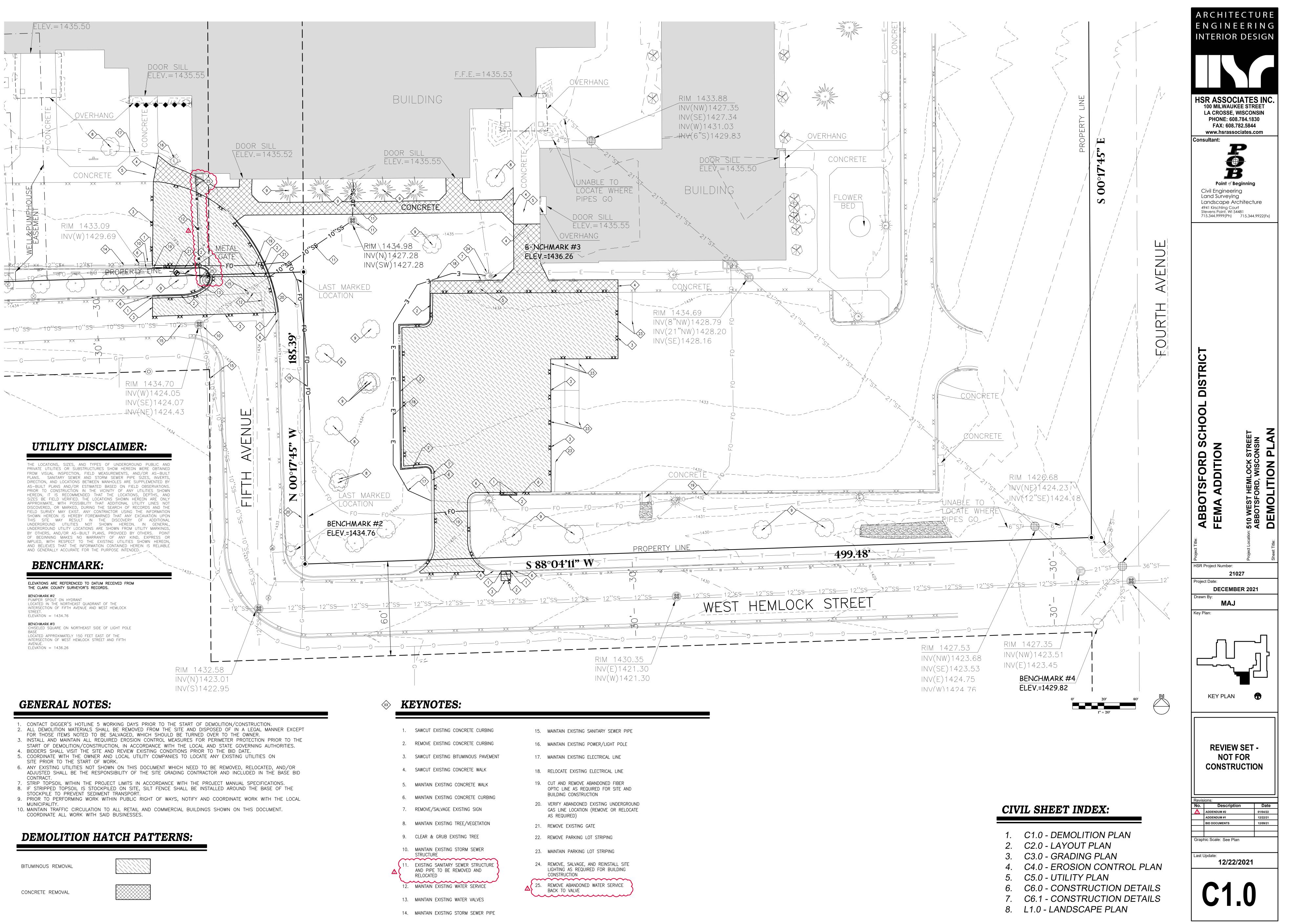
- A. Verify proper placement of equipment.
- B. Verify proper placement of equipment anchors and sleeves, and use actual movable equipment to be anchored if available.
- C. Adjust operating equipment for proper operation; remove and replace equipment causing noise or vibration; lubricate equipment as recommended by manufacturer.

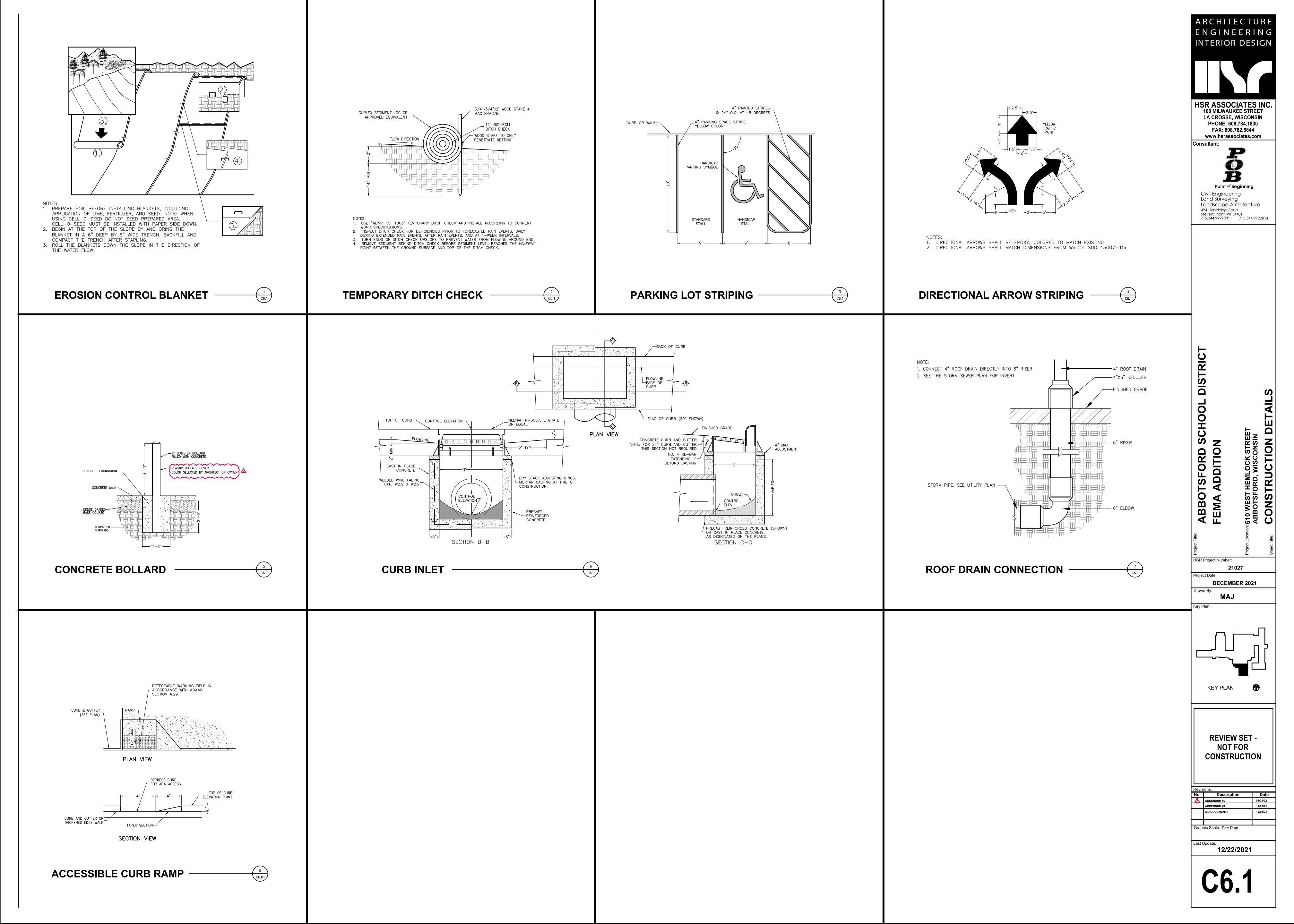
3.04 PROTECTION

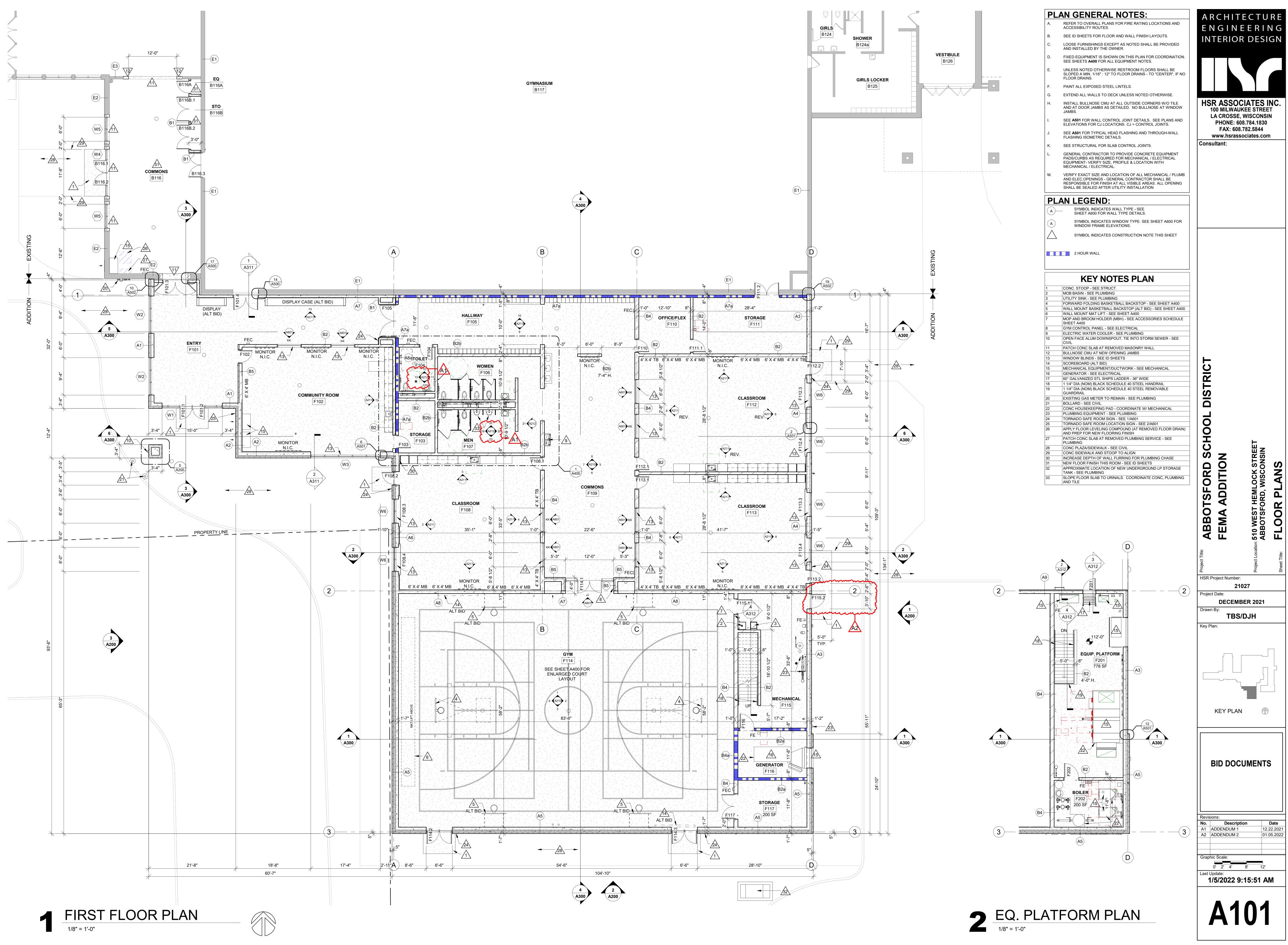
- A. Remove masking or protective covering from finished surfaces.
- B. Clean equipment in accordance with manufacturer's recommendations.
- C. Protect installed products until Date of Substantial Completion.
- D. Replace damaged products before Date of Substantial Completion.

END OF SECTION

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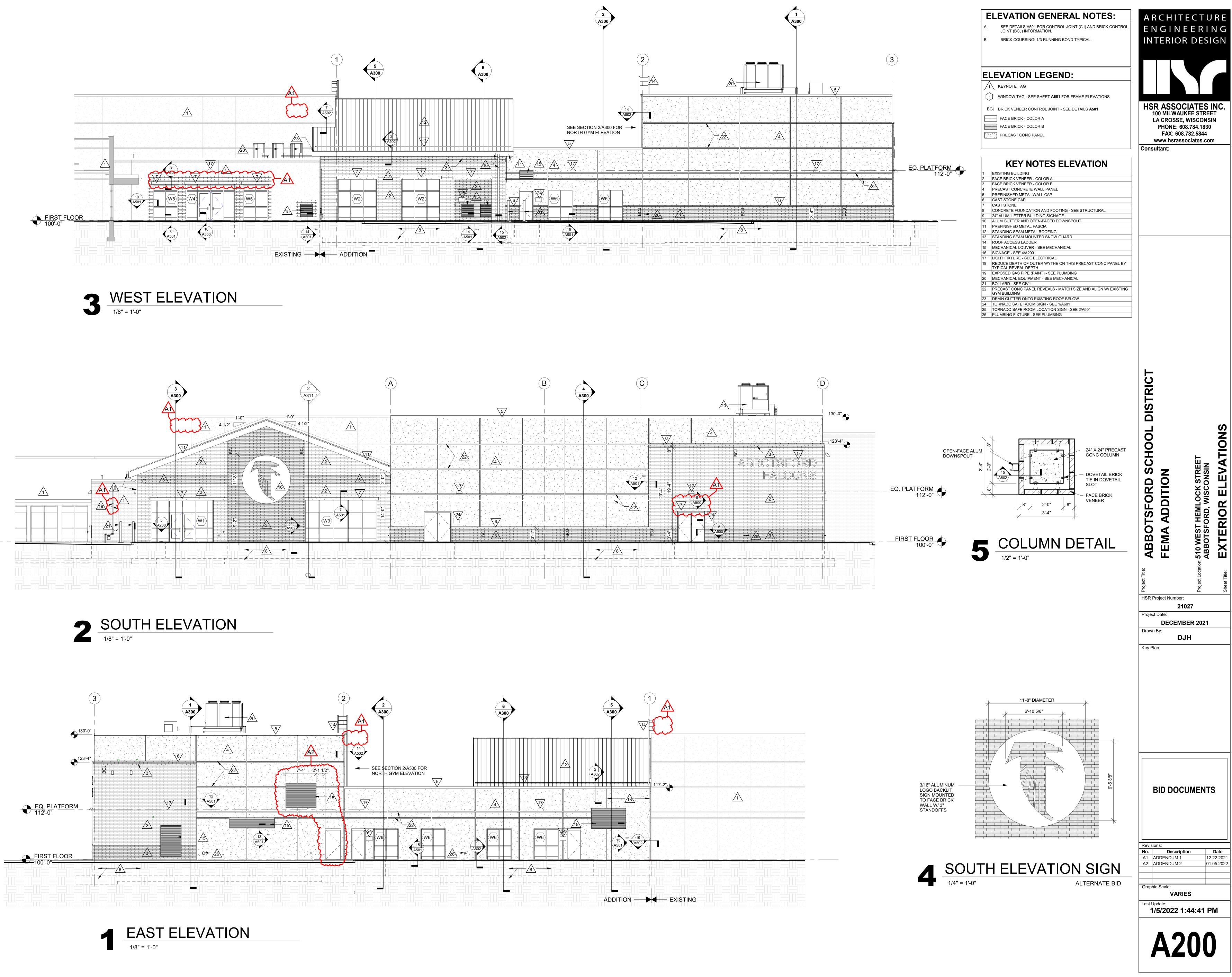


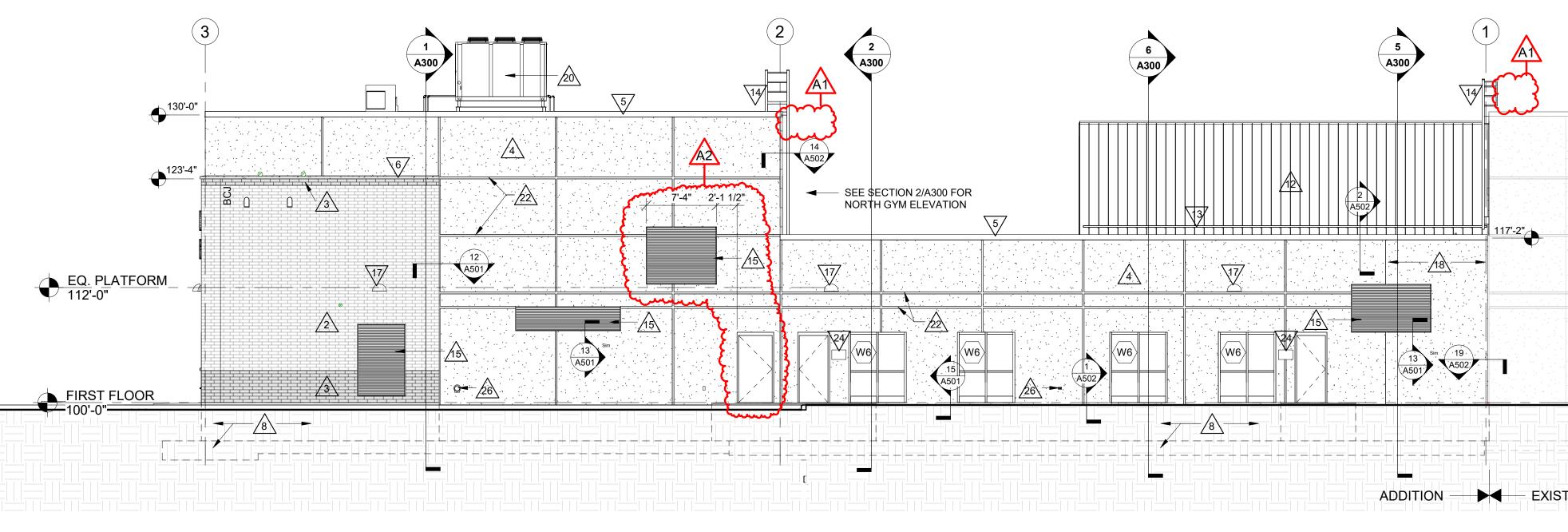




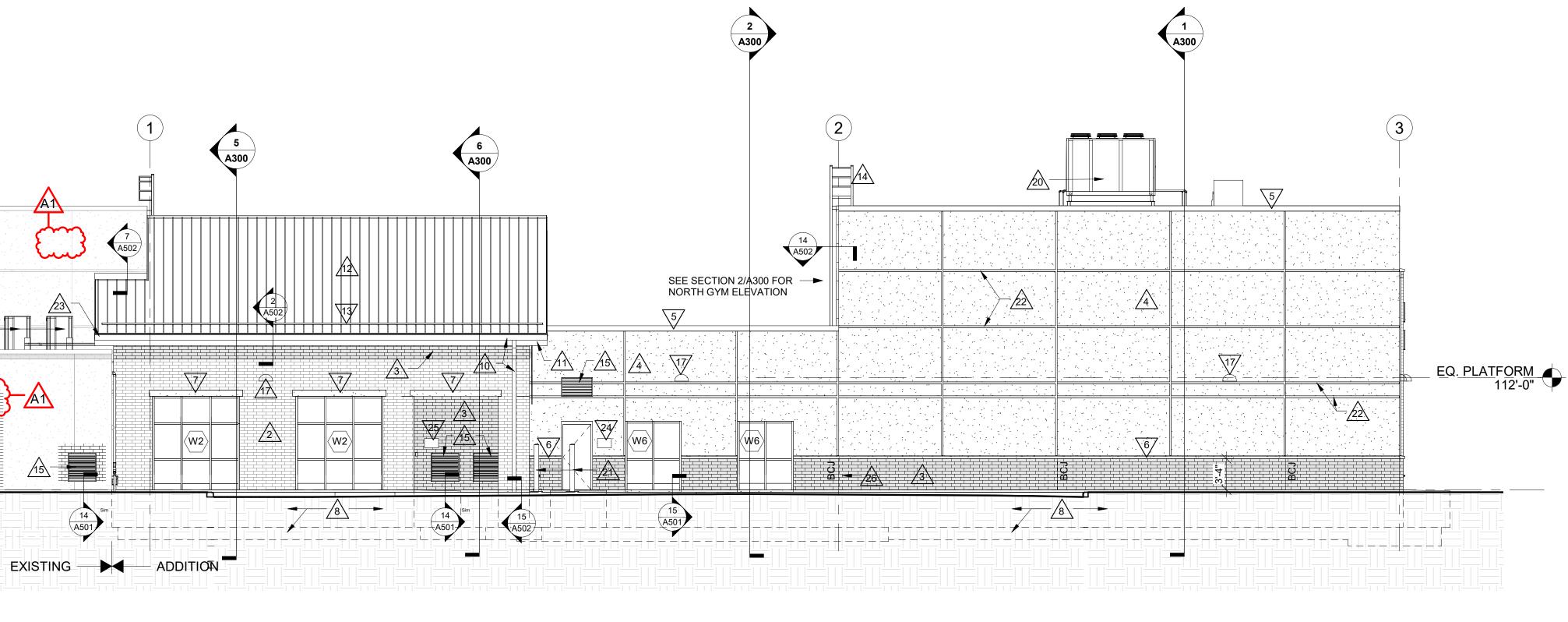


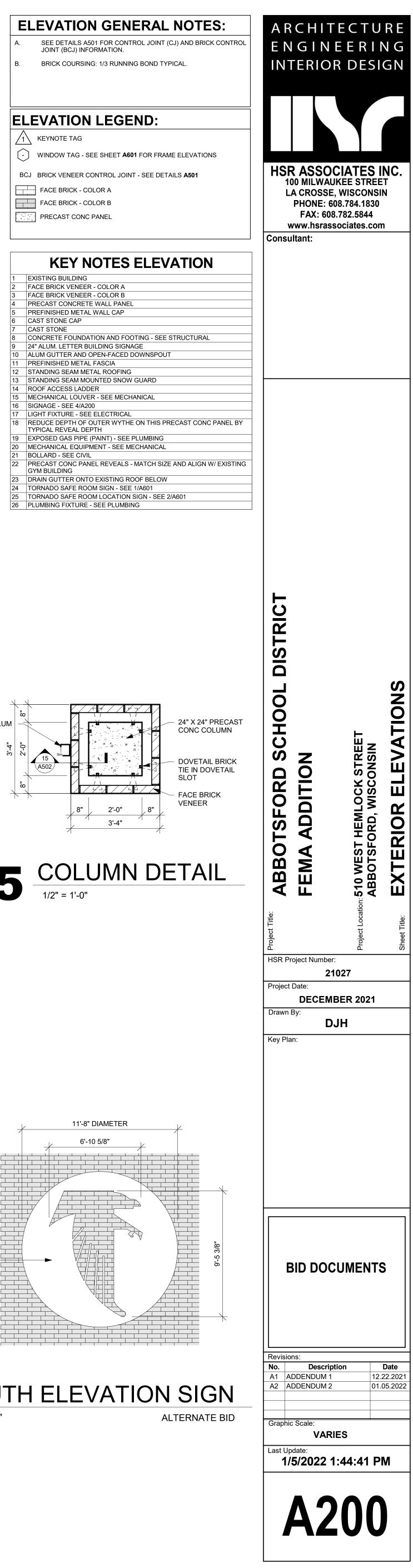
PL	AN GENERAL NOTES:
A.	REFER TO OVERALL PLANS FOR FIRE RATING LOCA ACCESSIBILITY ROUTES.
В.	SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYO
C.	LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE AND INSTALLED BY THE OWNER.
D.	FIXED EQUIPMENT IS SHOWN ON THIS PLAN FOR C SEE SHEETS A400 FOR ALL EQUIPMENT NOTES.
E.	UNLESS NOTED OTHERWISE RESTROOM FLOORS S SLOPED A MIN. 1/16" : 12" TO FLOOR DRAINS - TO "C FLOOR DRAINS.
F.	PAINT ALL EXPOSED STEEL LINTELS.
G.	EXTEND ALL WALLS TO DECK UNLESS NOTED OTH
H.	INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNER AND AT DOOR JAMBS AS DETAILED. NO BULLNOSE JAMBS.
I.	SEE A501 FOR WALL CONTROL JOINT DETAILS. SE ELEVATIONS FOR CJ LOCATIONS. CJ = CONTROL JO
J.	SEE A501 FOR TYPICAL HEAD FLASHING AND THRO FLASHING ISOMETRIC DETAILS.
K.	SEE STRUCTURAL FOR SLAB CONTROL JOINTS.
L.	GENERAL CONTRACTOR TO PROVIDE CONCRETE E PADS/CURBS AS REQUIRED FOR MECHANICAL / ELE EQUIPMENT- VERIFY SIZE, PROFILE & LOCATION WI MECHANICAL / ELECTRICAL.
M.	VERIFY EXACT SIZE AND LOCATION OF ALL MECHA AND ELEC.OPENINGS - GENERAL CONTRACTOR SH RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. / SHALL BE SEALED AFTER UTILITY INSTALLATION
PI	AN LEGEND:
	SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS.
Â	SYMBOL INDICATES WINDOW TYPE. SEE SHE WINDOW FRAME ELEVATIONS.
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	SYMBOL INDICATES CONSTRUCTION NOTE T
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2 3 4 5 6 7 8 9 10 11 12 13 14	2 HOUR WALL KEY NOTES PLAN CONC. STOOP - SEE STRUCT. MOB BASIN - SEE PLUMBING UTILITY SINK - SEE PLUMBING UTILITY SINK - SEE PLUMBING FORWARD FOLDING BASKETBALL BACKSTOP - SEE S WALL MOUNT BASKETBALL BACKSTOP (ALT BID) - SE WALL MOUNT MAT LIFT - SEE SHEET A400 MOP AND BROOM HOLDER (MBH) - SEE ACCESSORIE SHEET A400 GYM CONTROL PANEL - SEE ELECTRICAL ELECTRIC WATER COOLER - SEE PLUMBING OPEN FACE ALUM DOWNSPOUT, TIE INTO STORM SE CIVIL PATCH CONC SLAB AT REMOVED MASONRY WALLL BULLNOSE CMU AT NEW OPENING JAMBS WINDOW BLINDS - SEE ID SHEETS SCOREBOARD (ALT BID)
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	2 HOUR WALL KEEY NOTES PLAN CONC. STOOP - SEE STRUCT. MOB BASIN - SEE PLUMBING UTILITY SINK - SEE PLUMBING FORWARD FOLDING BASKETBALL BACKSTOP - SEE WALL MOUNT BASKETBALL BACKSTOP (ALT BID) - SI WALL MOUNT MAT LIFT - SEE SHEET A400 MOP AND BROOM HOLDER (MBH) - SEE ACCESSORII SHEET A400 GYM CONTROL PANEL - SEE ELECTRICAL ELECTRIC WATER COOLER - SEE PLUMBING OPEN FACE ALUM DOWNSPOUT, TIE INTO STORM SI CIVIL PATCH CONC SLAB AT REMOVED MASONRY WALL BULLNOSE CMU AT NEW OPENING JAMBS WINDOW BLINDS - SEE ID SHEETS SCOREBOARD (ALT BID) MECHANICAL EQUIPMENT/DUCTWORK - SEE MECHA GENERATOR - SEE ELECTRICAL 60° GALVANIZED STL SHIPS LADDER - 36" WIDE 1 1/4" DIA (NOM) BLACK SCHEDULE 40 STEEL HANDR 1 1/4" DIA (NOM) BLACK SCHEDULE 40 STEEL REMOV GUARDRAIL EXISTING GAS METER TO REMAIN - SEE PLUMBING BOLLARD - SEE CIVIL CONC HOUSEKEEPING PAD - COORDINATE W/ MECH PLUMBING EQUIPMENT - SEE PLUMBING TORNADO SAFE ROOM SIGN - SEE 1/A601 TORNADO SAFE ROOM SIGN - SEE 1/A601 TORNADO SAFE ROOM SIGN - SEE 1/A601 TORNADO SAFE ROOM SIGN - SEE 1/A601 APPLY FLOOR LEVELING COMPOUND (AT REMOVED AND PREP FOR NEW FLOORING FINISH PATCH CONC SLAB AT REMOVED PLUMBING SERVICE
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	2 HOUR WALL CONC. STOOP - SEE STRUCT. MOB BASIN - SEE PLUMBING UTILITY SINK - SEE PLUMBING FORWARD FOLDING BASKETBALL BACKSTOP - SEE WALL MOUNT BASKETBALL BACKSTOP (ALT BID) - SI WALL MOUNT MAT LIFT - SEE SHEET A400 MOP AND BROOM HOLDER (MBH) - SEE ACCESSORII SHEET A400 GYM CONTROL PANEL - SEE ELECTRICAL ELECTRIC WATER COOLER - SEE PLUMBING OPEN FACE ALUM DOWNSPOUT, TIE INTO STORM SI CIVIL PATCH CONC SLAB AT REMOVED MASONRY WALL BULLNOSE CMU AT NEW OPENING JAMBS WINDOW BLINDS - SEE ID SHEETS SCOREBOARD (ALT BID) MECHANICAL EQUIPMENT/DUCTWORK - SEE MECHAL GENERATOR - SEE ELECTRICAL 60° GALVANIZED STL SHIPS LADDER - 36" WIDE 1 1/4" DIA (NOM) BLACK SCHEDULE 40 STEEL HANDRE 1 1/4" DIA (NOM) BLACK SCHEDULE 40 STEEL REMOVE GUARDRAIL EXISTING GAS METER TO REMAIN - SEE PLUMBING BOLLARD - SEE CIVIL CONC HOUSEKEEPING PAD - COORDINATE W/ MECH PLUMBING EQUIPMENT - SEE PLUMBING TORNADO SAFE ROOM SIGN - SEE 1/A601 TORNADO SAFE ROOM LOCATION SIGN - SEE 2/A604 APPLY FLOOR LEVELING COMPOUND (AT REMOVED AND PREP FOR NEW FLOORING FINISH PATCH CONC SLAB AT REMOVED PLUMBING SERVIC PLUMBING
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	2 HOUR WALL KEEY NOTES PLAN CONC. STOOP - SEE STRUCT. MOB BASIN - SEE PLUMBING UTILITY SINK - SEE PLUMBING FORWARD FOLDING BASKETBALL BACKSTOP - SEE S WALL MOUNT BASKETBALL BACKSTOP (ALT BID) - SI WALL MOUNT MAT LIFT - SEE SHEET A400 MOP AND BROOM HOLDER (MBH) - SEE ACCESSORII SHEET A400 GYM CONTROL PANEL - SEE ELECTRICAL ELECTRIC WATER COOLER - SEE PLUMBING OPEN FACE ALUM DOWNSPOUT, TIE INTO STORM SE CIVIL PATCH CONC SLAB AT REMOVED MASONRY WALL BULLNOSE CMU AT NEW OPENING JAMBS WINDOW BLINDS - SEE ID SHEETS SCOREBOARD (ALT BID) MECHANICAL EQUIPMENT/DUCTWORK - SEE MECHA GENERATOR - SEE ELECTRICAL 60° GALVANIZED STL SHIPS LADDER - 36" WIDE 1 1/4" DIA (NOM) BLACK SCHEDULE 40 STEEL HANDR 1 1/4" DIA (NOM) BLACK SCHEDULE 40 STEEL REMOV GUARDRAIL EXISTING GAS METER TO REMAIN - SEE PLUMBING BOLLARD - SEE CIVIL CONC HOUSEKEEPING PAD - COORDINATE W/ MECH PLUMBING EQUIPMENT - SEE PLUMBING TORNADO SAFE ROOM SIGN - SEE 1/A601 TORNADO SAFE ROOM SIGN - SEE 1/A601 TORNADO SAFE ROOM SIGN - SEE 1/A601 TORNADO SAFE ROOM SIGN - SEE 1/A601 APPLY FLOOR LEVELING COMPOUND (AT REMOVED AND PREP FOR NEW FLOORING FINISH PATCH CONC SLAB AT REMOVED PLUMBING SERVICE



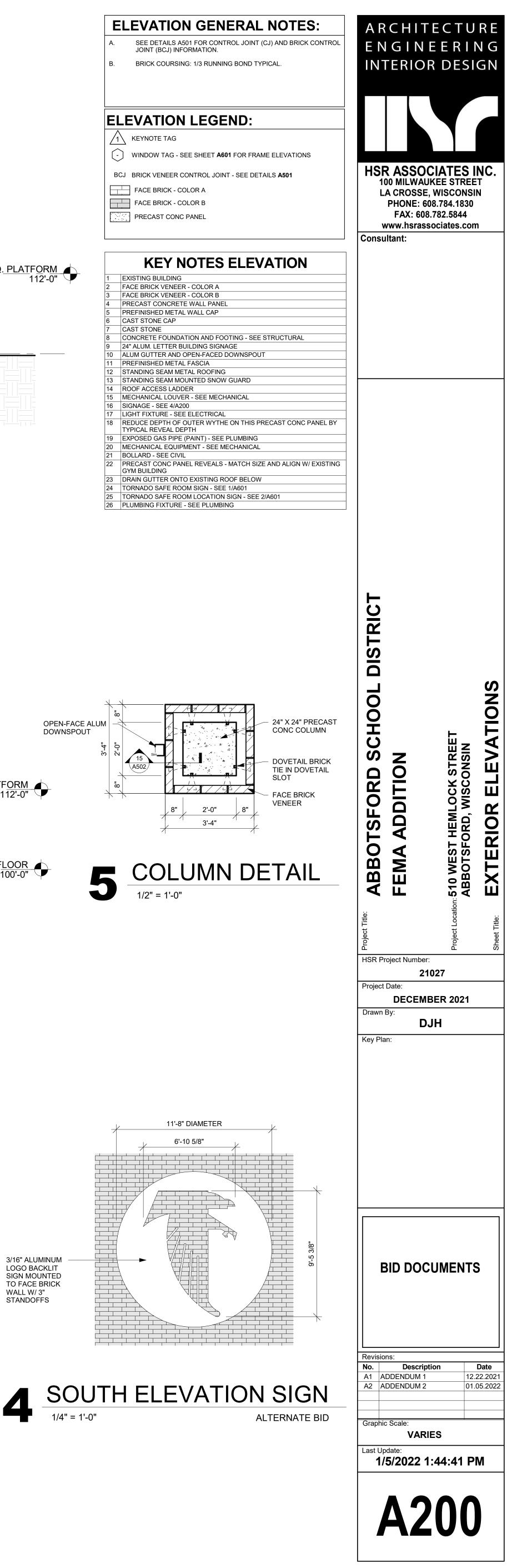


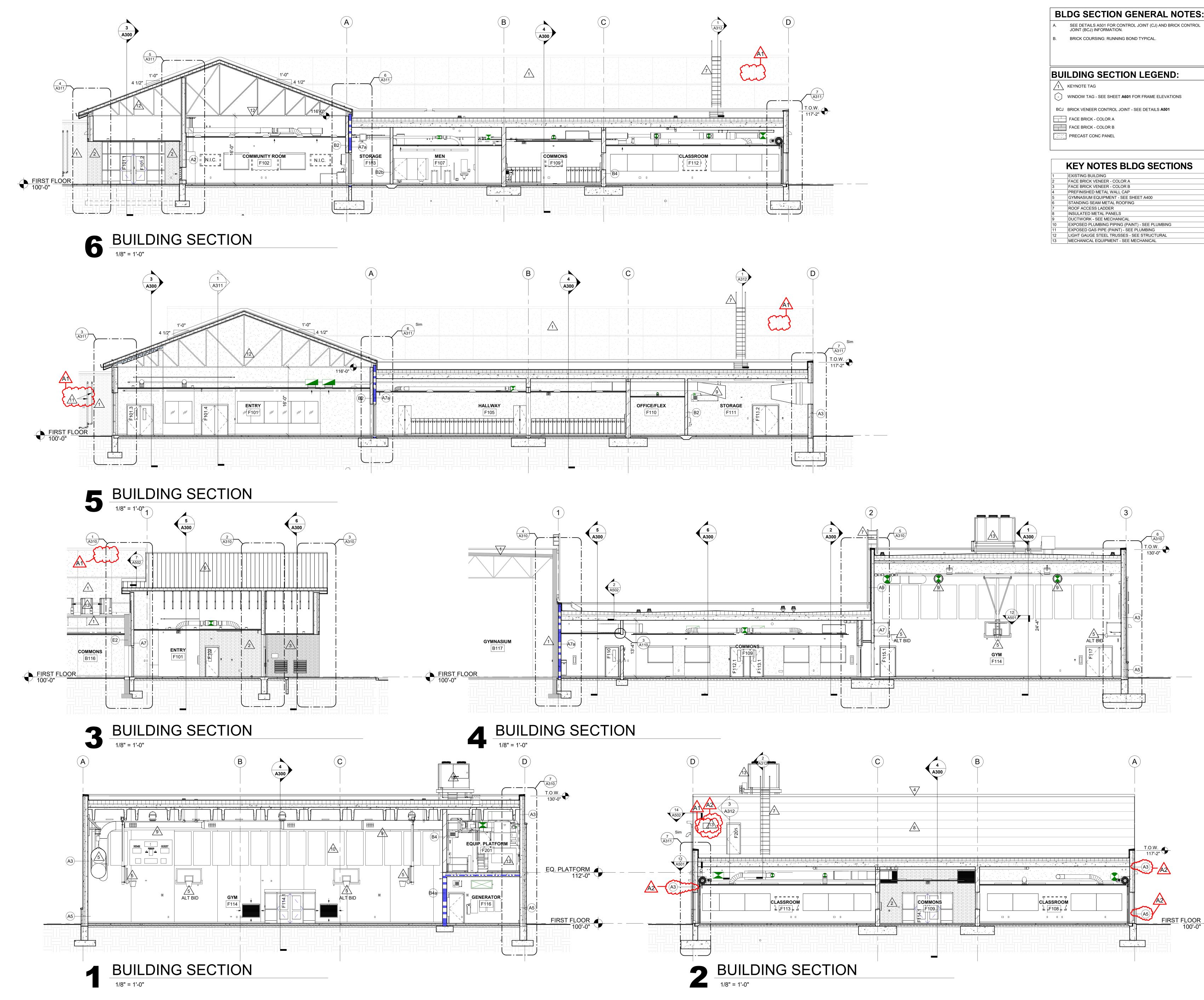






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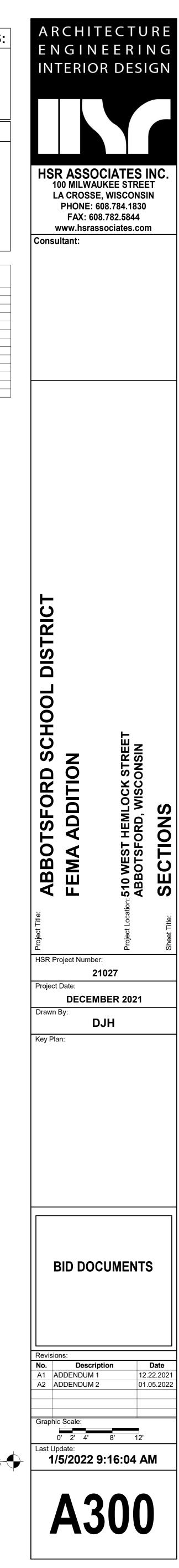


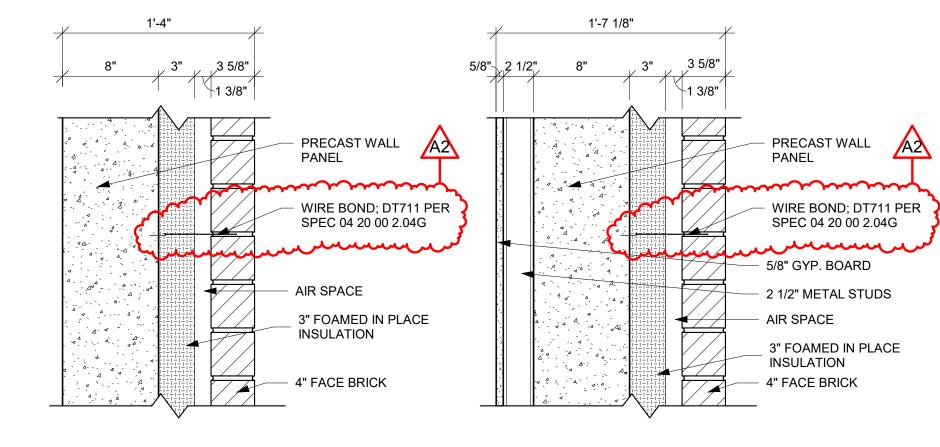


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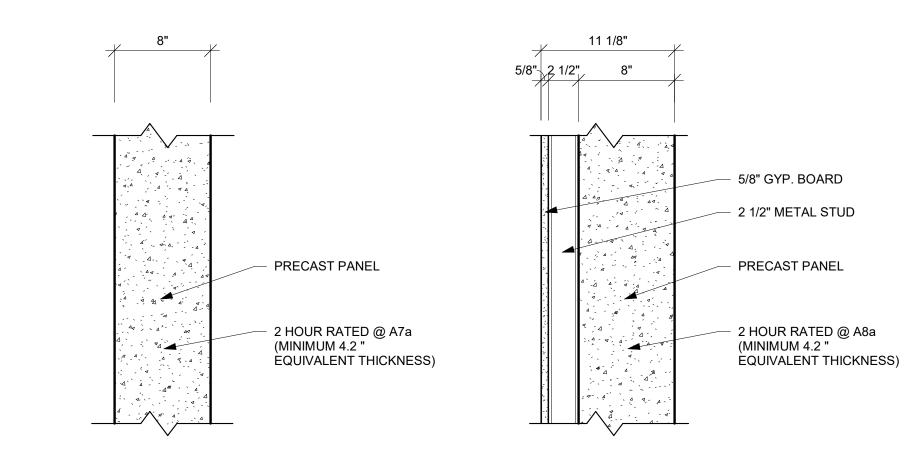
BLDG SECTION GENERAL NOTES:

KEY NOTES BLDG SECTIONS

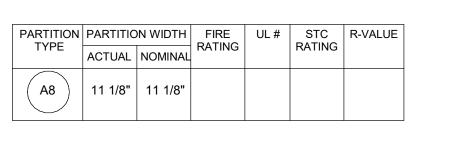


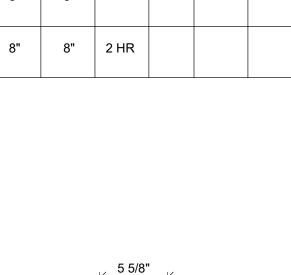


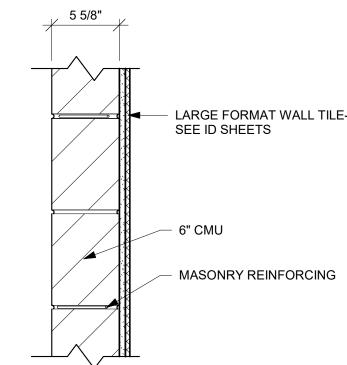
PARTITION	PARTITIC	N WIDTH		UL #	STC	R-VALUE	PARTITION		ON WIDTH	1	UL #	STC	R-VALU
TYPE	ACTUAL	NOMINAL	RATING		RATING		TYPE	ACTUAL	NOMINAL	RATING		RATING	
A1	1'-4"	1'-4"				27.75	A2	1'-7 1/8"	1'-7"				27.75

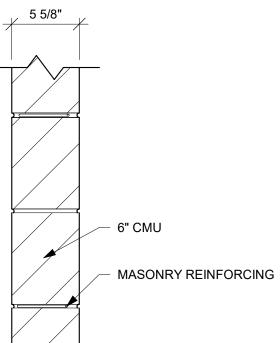


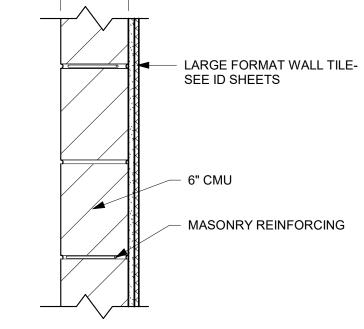
PARTITION	PARTITIC	N WIDTH	FIRE	UL #	STC	R-VALUE
TYPE	ACTUAL	NOMINAL	RATING		RATING	
A7	8"	8"				
A7a	8"	8"	2 HR			
<u> </u>						

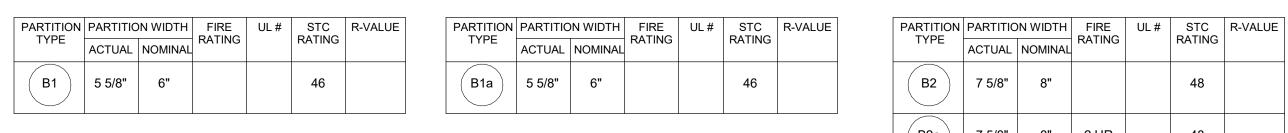


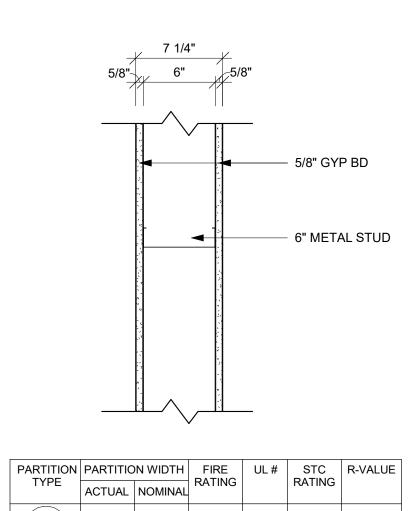




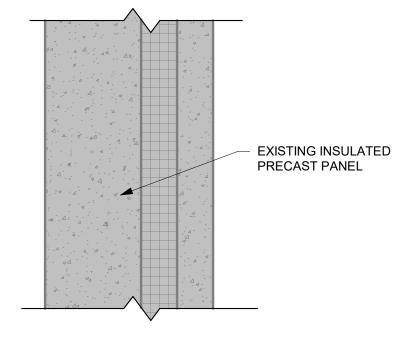


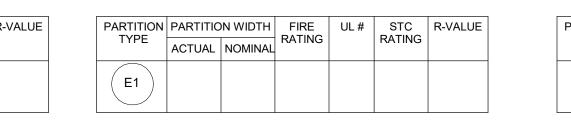


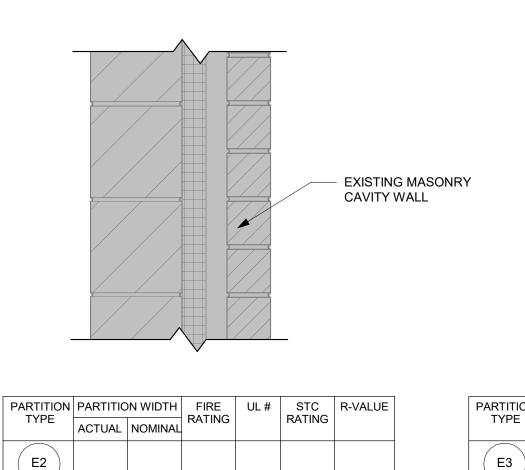


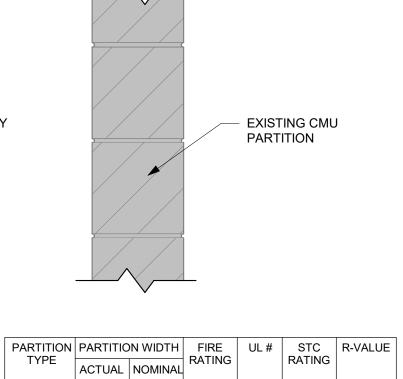


D10 7 1/4" 7"









PARTITION	PARTITIC	N WIDTH	FIRE	UL #	STC	R-VALUE
TYPE	ACTUAL	NOMINAL	RATING		RATING	
B4	11 5/8"	12"			52	
B4a	11 5/8"	12"	2 HR		52	

7 5/8"	
	8" CMU
	2 HOUR RATED 8" CMU @ B2a MINIMUM 4.2 EQUIVALENT THICKNESS
	MASONRY REINFORCING

RATING

8" 2 HR

RATING

48

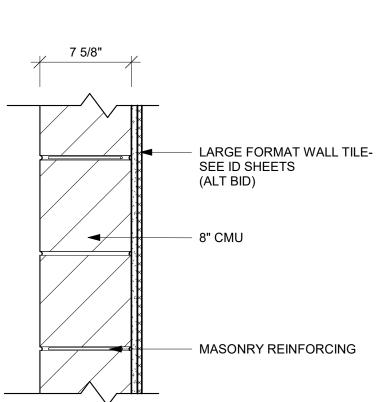
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TYPE ACTUAL NOMINAL F

7 5/8"

(B2) 7 5/8" 8"

 \sim (B2a)



PARTITION PARTITION WIDTH FIRE UL # STC R-VALUE

TYPE ACTUAL NOMINAL

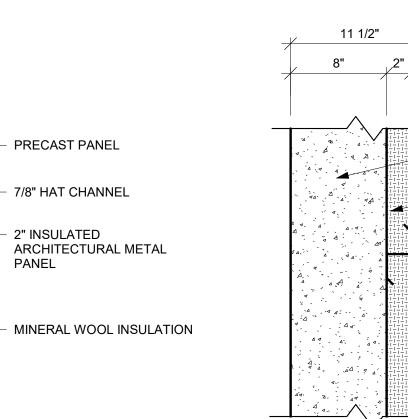
B2b 7 5/8" 8"

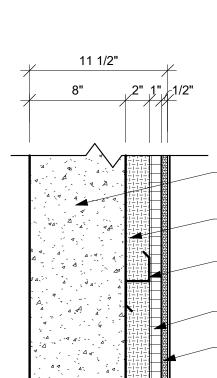
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11 5/8"	
	— 12" CMU
	 — 2 HOUR RATED 12" CMU @ B4a MINIMUM 4.2 EQUIVALENT THICKNESS

PARTITION	PARTITIC	N WIDTH	FIRE	UL #	STC	R-VALUE
TYPE	ACTUAL	NOMINAL	RATING		RATING	
A9	10 7/8"	11"				

PARTITION	PARTITIC	N WIDTH	FIRE	UL #	STC	R-VALUE
TYPE	ACTUAL	NOMINAL	RATING		RATING	
(A10)	11 1/2"	11 1/2"				





PARTITION TYPE	PARTITION WIDTH		FIRE	UL #	STC	R-VALUE
	ACTUAL	NOMINAL	RATING		RATING	
(A3)	1'-2"	1'-2"				

2,1/2",

8"

.

LARGE FORMAT WALL TILE-

- METAL LATH AND SCRATCH COAT

SEE ID SHEETS

— 2 1/2" METAL STUD

- PRECAST PANEL

4.2 " EQUIVALENT

THICKNESS)

2 HOUR RATED (MINIMUM

(ALT BID)

PARTITION TYPE	PARTITION WIDTH		FIRE	UL #	STC	R-VALUE
TTPE	ACTUAL	NOMINAL	RATING		RATING	
A4	1'-5 1/8"	1'-5"				

10 7/8"

8" 7/80" 2"

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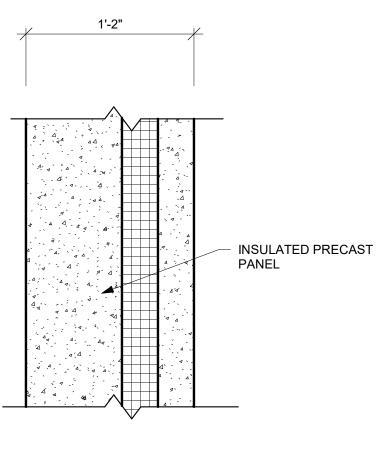
PRECAST PANEL

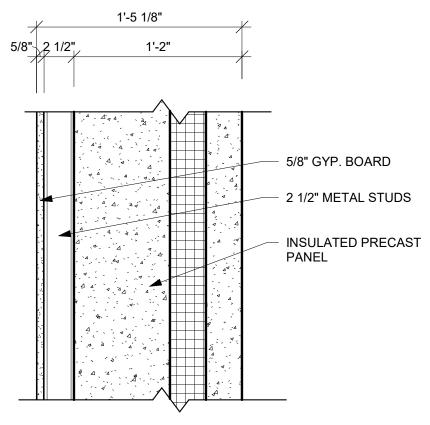
- 7/8" HAT CHANNEL

- 2" INSULATED

PANEL

	+		1'-7"					+		1'-1(0 1/8"				
	/	1'-2	." 1	3/8"	3 5/8"			5/8" 2	. 1/2"	1'-2	<u>."</u> 1	3/8"	,3 5/8"		
-						PAN DOV DOV	JLATED PREC EL 'ETAIL SLOT 'ETAIL BRICK SPACE							PAN DO\ 5/8" 2 1/2 AIR	JLATED PRECAST IEL VETAIL SLOT VETAIL BRICK TIE GYP. BOARD 2" METAL STUDS SPACE ACE BRICK
PARTITION TYPE		N WIDTH	FIRE RATING	UL #	STC RATING	R-VALUE		PARTITIOI TYPE	N PARTITIC	ON WIDTH	RATING	UL #	STC RATING	R-VALUE	
(A5)	1'-7"	1'-7"						(A6)	1'-10 1/8	" 1'-10"					

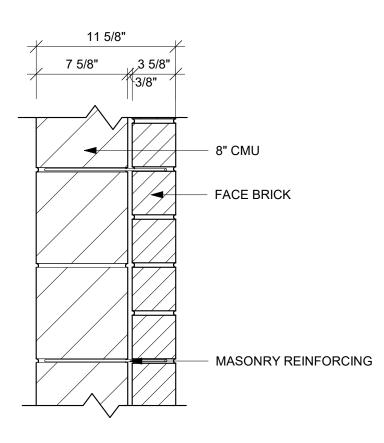




- REFER TO MASTER COLOR SCHEDULE AND INTERIOR DESIGN SHEETS FOR ADDITIONAL WALL FINISHES. WHERE INTERIOR DESIGN SHEETS INDICATE WALL TILE, INSTALL
- BACKER BOARD AT WET AND NON-WET LOCATIONS AS LISTED IN 09 21 16 NON RATED WALLS, INCLUDING BULKHEADS SHALL HAVE FRAMING
- EXTENDED TO DECK ABOVE. GYP BOARD SHALL EXTEND TO 4" ABOVE CEILING UNLESS NOTED OTHERWISE. COLUMN FURRING MAY STOP 4" ABOVE CEILING.
- WHERE FIRE RATED WALLS ARE INDICATED BY WALL TYPE, USE UL OR EQUIVALENT APPROVED RATING SYSTEM INCLUDING TOP OF WALL AND PENETRATIONS.

1 HOUR MINIMUM 2.8 EQUIVALENT WALL THICKNESS 2 HOUR MINIMUM 4.2 EQUIVALENT WALL THICKNESS

	SEMBLY R-VALUE ENT TABLE:
COMPONENT	R-VALUE
FILM (INSIDE)	.68
5/8" GYP BOARD	.52
6" MTL STUD	
8" CMU	1.11
CONCRETE	.08 PER INCH (above grade); .11 PER INCH (foundation
1/2 GYP SHEAT	.69
FILM (OUTSIDE)	.17
RIGID FOAM	5 PER INCH
FOAMED IN PLACE	7 PER INCH
DEAD AIR	.85
BRICK	.44
STONE	.44
MTL PANEL	.62
SEE WALL TYPE FOR	TOTAL WALL R-VALUE



PARTITION	PARTITIC	N WIDTH	=	UL #	STC	R-VALUE
TYPE	ACTUAL	NOMINAL	RATING		RATING	
B 5	11 5/8"	12"				

# STC RATING R-VALUE PARTITION TYPE PARTITION WIDTH ACTUAL FIRE RATING UL # STC RATING (A6) 1'-10 1/8" 1'-10"							_			
ACTUAL NOMINAL		UL #	RATING	N PARTITION WIDTH						ŧ
A6 1'-10 1/8" 1'-10"	RATING			NOMINAL		IYPE			RATING	
				1'-10"	1'-10 1/8"	A 6				

	4" F/	ACE BRICK		4 4 4 4 4 4 4 4					4" FA	۹C
STC	R-VALUE		PARTITION	PARTITIO	N WIDTH	FIRE	UL #	STC	R-VALUE	
RATING			TYPE	ACTUAL	NOMINAL	RATING		RATING		
			A 6	1'-10 1/8"	1'-10"					

PANEL		
D IN PLACE INSUL		

11 5/8"

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PARTITION PARTITION WIDTH FIRE UL # STC R-VALUE

TYPE ACTUAL NOMINAL

(B4b) 11 5/8" 12"

 $\langle \ \rangle$

LARGE FORMAT WALL TILE-

SEE ID SHEETS (ALT BID)

—MASONRY REINFORCING

52

— 12" CMU

- PRECAST F

N PLACE INSUL

2" FOAMED I

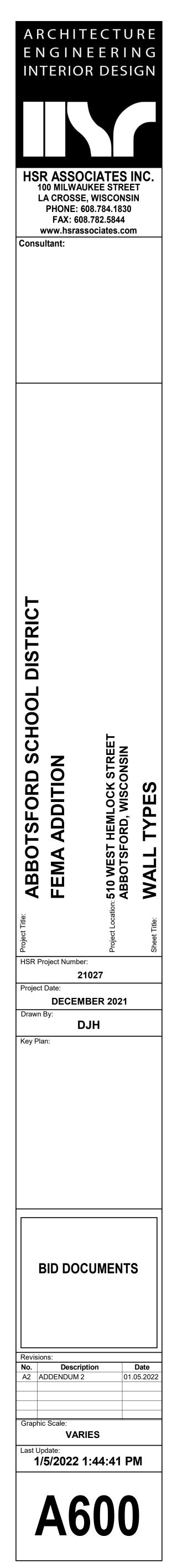
- 2" METAL Z FURRING

- 1" RIGID INSULATION

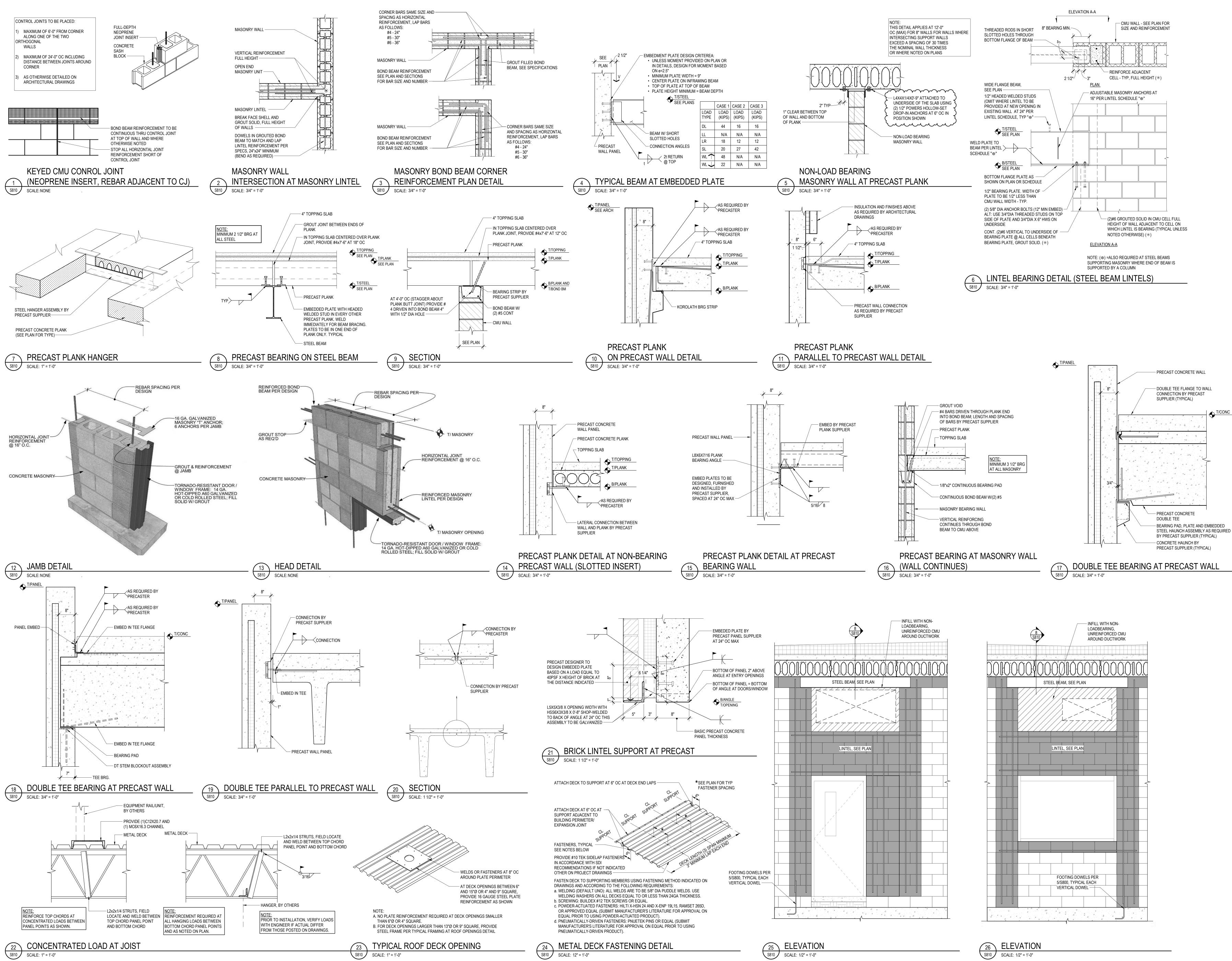
- MEMBRANE ROOFING-RUN

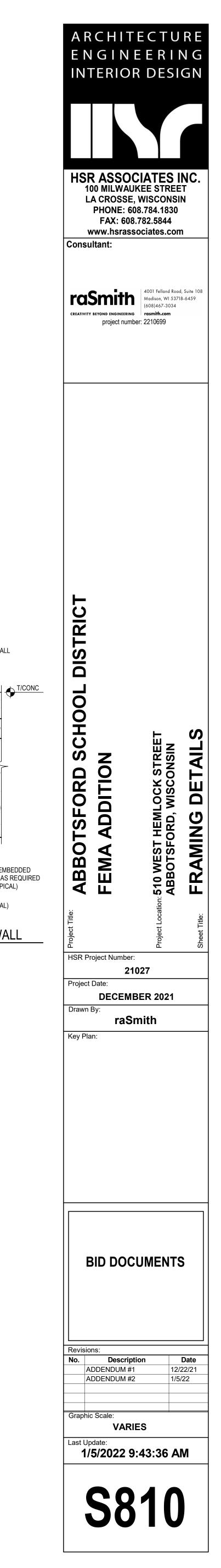
- 1/2" PLYWOOD

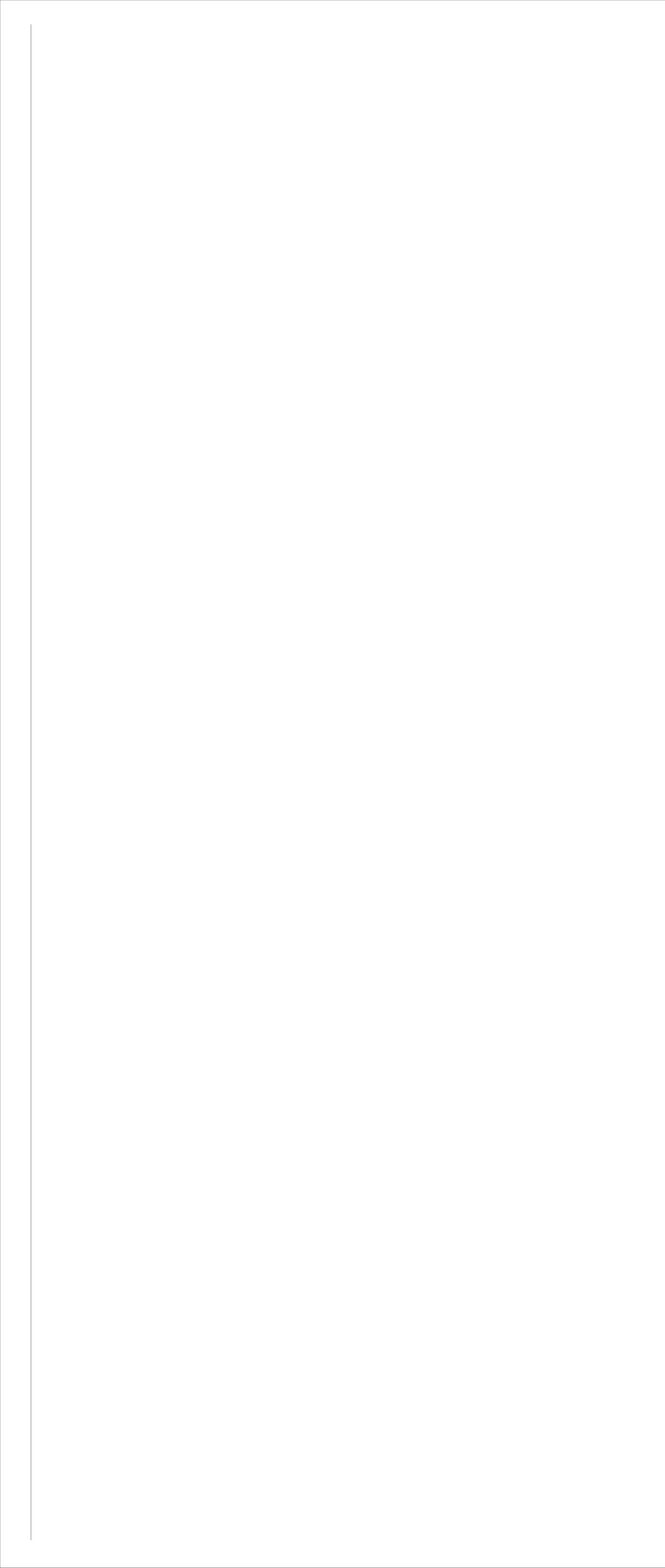
TO TOP OF WALL



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	PLUMBIN	IG AND PIPI
	CW	
	HW	
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HOT	N
HOT WAT LENGTH FIXTURES OF THE II	FR(S Al

FP100	FI
P001	ΡL
P100	U
P101	FL
P200	D١
P201	W
P202	S

	ABI	BREVIATIONS:
PING SYMBOLS	A AFF AFG	COMPRESSED AIR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE
– ————DOMESTIC COLD WATER – ———	вт	BATHTUB
	CB CO	CATCH BASIN CLEANOUT
——————————————————————————————————————	CS CW CWH	COLD SOFT WATER COLD WATER COLD WATER HARD
NATURAL GAS	CWV CWW	CLEAR WATER VENT CLEAR WATER WASTE
PROPANE GAS	DCV DI	DOUBLE DETECTOR CHECK VA DEIONIZED WATER
— — — — SANITARY VENT- — — — — — — —	DSN DW	DOWNSPOUT NOZZLE DISHWASHER
SANITARY SEWER	E EC ESEW	EXISTING ELECTRICAL CONTRACTOR EMERGENCY SHOWER/EYEWAS
STORM DRAINAGE	EWC	
STORM DRAINAGE-OVERFLOW	F FCO FD	FIRE PROTECTION WATER SER FLOOR CLEANOUT FLOOR DRAIN
ITEM TO BE DEMOLISHED	FFA FFB FPC	FROM FLOOR ABOVE FROM FLOOR BELOW FIRE PROTECTION CONTRACTO
POINT WHERE NEW CONNECTS TO EXISTING	G GC	NATURAL GAS GENERAL CONTRACTOR
WATER NOTE: ER DISTRIBUTION PIPING MAXIMUM ALLOWABLE PIPE ROM A HEAT SOURCE TO A PUBLIC LAVATORY OR OTHER AND APPLIANCES IS TO BE AS LISTED IN TABLE C404.5.1 TERNATIONAL ENERGY CONSERVATION CODE (IECC).	HB HC HD HW HWR HYD IE	HOSE BIBB HVAC CONTRACTOR HUB DRAIN HOT WATER HOT WATER RECIRCULATION WALL HYDRANT INVERT ELEVATION
TENATIONAL ENERGY CONSERVATION CODE (1200).	L	LAVATORY LAUNDRY TUB
PLUMBING SHEET INDEX	MB MH	MOP BASIN MANHOLE
FIRE PROTECTION PLUMBING GENERAL NOTES	NC NPC NPCS NPH NPR	NEW CONNECTION NON-POTABLE COLD WATER NON-POTABLE COLD SOFT WAT NON-POTABLE HOT WATER NON-POTABLE HOT RECIRULAT
UNDERFLOOR PLAN FLOOR PLAN	OST	STORM- OVERFLOW
DWV RISER DIAGRAMS AND DETAILS WATER RISER DIAGRAMS AND DETAILS	PC PRV	PLUMBING CONTRACTOR PRESSURE REGULATING VALVE
STORM ISOMETRIC	RPBP	REDUCED PRESSURE ZONE BA
	S SAN SH SPR ST	SINK SANITARY SHOWER SPRINKLER PIPING STORM- PRIMARY

FF FG	COMPRESSED AIR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	
Т	BATHTUB	
B O S W W W W W W W W W W	CATCH BASIN CLEANOUT COLD SOFT WATER COLD WATER COLD WATER HARD CLEAR WATER VENT CLEAR WATER WASTE	
CV I SN W	DOUBLE DETECTOR CHECK VALVE DEIONIZED WATER DOWNSPOUT NOZZLE DISHWASHER	
C SEW WC	EXISTING ELECTRICAL CONTRACTOR EMERGENCY SHOWER/EYEWASH ELECTRIC WATER COOLER	
CO D FA FB PC	FIRE PROTECTION WATER SERVICE FLOOR CLEANOUT FLOOR DRAIN FROM FLOOR ABOVE FROM FLOOR BELOW FIRE PROTECTION CONTRACTOR	
С	NATURAL GAS GENERAL CONTRACTOR	
B C D W WR YD	HOSE BIBB HVAC CONTRACTOR HUB DRAIN HOT WATER HOT WATER RECIRCULATION WALL HYDRANT	
E	INVERT ELEVATION	
Т	LAVATORY LAUNDRY TUB	
IB IH	MOP BASIN MANHOLE	
C PC PCS PH PR	NEW CONNECTION NON-POTABLE COLD WATER NON-POTABLE COLD SOFT WATER NON-POTABLE HOT WATER NON-POTABLE HOT RECIRULATION	
ST	STORM- OVERFLOW	
C RV	PLUMBING CONTRACTOR PRESSURE REGULATING VALVE	
PBP	REDUCED PRESSURE ZONE BACKFLOW PREVENTER	
AN H PR T	SINK SANITARY SHOWER SPRINKLER PIPING STORM- PRIMARY	
FA FB MV	TEMPERED WATER TO FLOOR ABOVE TO FLOOR BELOW THERMOSTATIC MIXING VALVE	
R	URINAL	
TR	VENT VENT THRU ROOF	
/ /CO /F /M /HA /HR /S	DOMESTIC WATER SERVICE WATER CLOSET WALL CLEAN OUT WASH FOUNTAIN WASHING MACHINE WALL BOX WATER HAMMER ARRESTER WATER HEATER WATER SOFTENER	

YCO YARD CLEANOUT

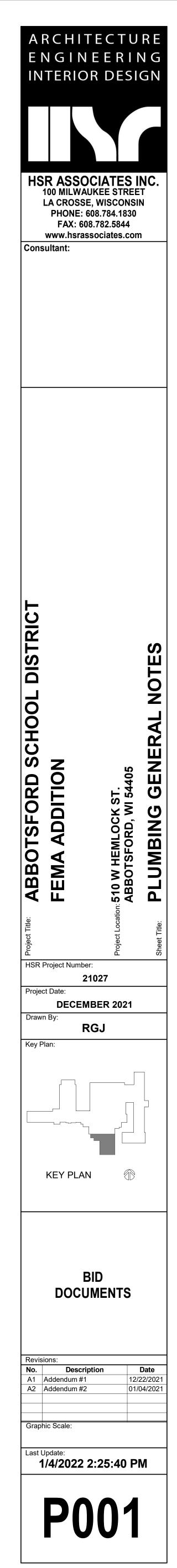
BUILDING SYSTEMS MUST REMAIN OPERATIONAL, UNLESS OTHERWISE PERMITTED BY OWNER. COORDINATE AS REQUIRED. PATCH ALL HOLES THROUGH FLOORS W/NON-SHRINK GROUT. ALL WORK TO BE SCHEDULED AS DIRECTED BY OWNER. COORDINATE AS REQUIRED. PORTIONS OF THE BUILDING WILL BE CONTINUOUSLY OCCUPIED DURING THE CONSTRUCTION PERIOD. AVOID INTERFERENCE WITH DURING FEINATION. COORDINATE TRANSPORT OF CONSTRUCTION WORD'S. BUILDING FUNCTION. COORDINATE TIMING OF CONSTRUCTION WORK WITH THE OWNER. THIS PLAN HAS BEEN PRODUCED UTILIZING THE EXISTING PLANS AND THIS PLAN HAS BEEN PRODUCED UTILIZING THE EXISTING PLANS AND IS NOT INTENDED TO BE ALL-INCLUSIVE. VISIT THE BUILDING SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING CONDITIONS AFFECTING THE WORK. VERIFY ALL MEASUREMENTS, PIPE SIZES, PIPE LOCATIONS, ELEVATIONS, ETC. AT SITE. REVIEW, COORDINATE, AND SCHEDULE INSTALLATION OF WORK WITH OTHER TRADES. INSTALL ALL WORK SUBSTANTIALLY AS SHOWN ON THE DRAWINGS. DEVIATIONS FROM LOCATIONS OF PIPING INDICATED ON THE DRAWINGS MAY HAVE TO BE MADE AT NO ADDITIONAL COST TO THE OWNER IN ORDER TO CLEAR THE WORK OF THE OTHER TRADES. HOWEVER, ALL SUCH DEVIATIONS SHALL BE PREVIOUSLY APPROVED BY THE OWNER'S REPRESENTATIVE. 0. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL, PLUMBING FIXTURES, STRUCTURAL DIMENSIONS AND LAYOUT. 1. IT IS THE INTENT OF THESE DRAWINGS THAT EACH AFFECTED SYSTEM BE COMPLETE, WORKING, TESTED, AND OPERATIONAL. 2. CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID OPENING. THE ENGINEER RESERVES THE RIGHT TO FINAL DECISION. 3. INCLUDE ALL PLUMBING RELATED CUTTING, PATCHING AND/OR REMOVAL AND REPLACEMENT OF EXISTING WALLS, FLOORS & CEILINGS UNLESS OTHERWISE INDICATED. 14. ALL FIXTURE WATER SUPPLY FLOW RATES SHALL CONFORM TO SPS 384.20(3). 15. DOMESTIC WATER PIPE SIZING SHALL CONFORM TO SPS 382.40(7), FRICTION LOSS METHOD AND MAXIMUM FLOW VELOCITY OF 8 FPS. 16. BACKFLOW PROTECTION SHALL BE PROVIDED TO ALL FIXTURES, CONFORMING TO SPS 382.41(3). EACH FIXTURE SHALL BE VALVED, CONFORMING TO SPS 382.40(4)(c)b. TERMINATE WATER AND SANITARY LATERAL 5'-0" BEYOND EXTERIOR FACE OF FOUNDATION WALL. CONTINUATION SHALL BE UNDER A SEPARATE CONTRACT. SEPARATE CONTRACT. 19. UNLESS NOTED OTHERWISE ALL WASTE AND DRAIN PIPING 3" AND LARGER SHALL BE INSTALLED AT A SLOPE OF 1/8" PER FOOT AND WASTE AND DRAIN, PIPING 2" AND SMALLER AT 1/4" PER FOOT. 20. FIXTURE VENTS SHALL CONNECT TO OTHER BRANCH VENTS A MINIMUM OF 38" ABOVE THE FLOOR, CONFORMING TO SPS 382.31(15) (b)3. 21. THE INSTALLATION OF PVC DWV PIPING IN BUILDING SHALL CONFORM TO SPS 384.40(14), WHEN APPLICABLE. 22. WASTE STACK BASE CONNECTIONS SHALL BE MADE USING LONG SWEEP FITTINGS. 23. SU FAMILY FOR SHALL CONFORM TO SPS 382 35(6) TABLE 82.35. 23. CLEANOUTS SHALL CONFORM TO SPS 382.35(6) TABLE 82.35. 24. ALL WATER CLOSETS SHALL BE WATER CONSERVING TYPE, USING A MAXIMUM OF 1.6 GALLONS PER FLUSH CONFORMING TO SPS 384.20(3). 25. ALL LINE VALVES WHICH SERVE TWO OR MORE PLUMBING FIXTURES SHALL HAVE A FLOW OPENING NOT LESS THAN ONE NOMINAL PIPE SIZE SMALLER THAN THE NOMINAL SIZE OF THE PIPING CONNECTING SIZE SMALLER THAN THE NOMINAL SIZE OF THE PIPING CONNECTING TO THE VALVE, CONFORMING TO SPS 384.30(5)(b)3. 26. CUTTING, NOTCHING OR BORING OF METAL STUD WALL SYSTEM IS NOT PERMITTED UNLESS APPROVED BY THE MANUFACTURER AND THE STRUCTURAL INTEGRITY HAS NOT BEEN REDUCED TO UNACCEPTABLE LEVELS. 7. WHEN PIPING PASSES THROUGH SMOKE SEPARATION ASSEMBLIES, DRAFT STOPPING, CONSISTING OF MINERAL WOOL OR FIBERGLASS INSULATION, SHALL BE PACKED AROUND PIPING PENETRATING FACE OF ASSEMBLY. 28. PLASTIC PIPE MAY PENETRATE REQUIRED FIRE-RESISTIVE RATED FLOORS, WALLS, CEILINGS AND FIRE RATED ASSEMBLIES PROTECTED WITH AN APPROVED FIRE-STOP SYSTEM HAVING AN F-RATING NOT LESS THAN THE HOURLY RATING OF THE ASSEMBLY BEING PENETRATED. SEE SECTION 07 84 00. 29. CORE DRILL OPENINGS IN EXISTING FLOOR/WALL, AS REQUIRED. SIZE

GENERAL PLUMBING NOTES:

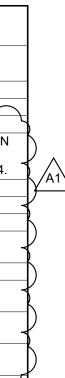
OF OPENINGS SHALL NOT EXCEED 1" LARGER THAN THE O.D. OF THE PIPING PENETRATING THE ASSEMBLY. COORDINATE WITH DRAFT/FIRE STOPPING REQUIREMENTS.
30. IDENTIFY PIPING LOCATED ABOVE CEILINGS PRIOR TO CEILING GRID INSTALLATION.

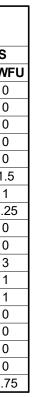
FIXTURE				MATERIAL	TRIM		
SYMBOL	DESCRIPTIION	MANUFACTURER	MODEL	DESCRIPTION	MANUFACTURER	MODEL NO.	REMARKS
EWC-1	ELECTRIC WATER COOLER	ELKAY	LZSTLG8WSSK	GALVANIZED STEEL			
HB-1	HOSE BIBB	JR SMITH	5572	STAINLESS STEEL			
HYD-1	EXTERIOR WALL HYDRANT	WOODFORD	65	STAINLESS STEEL	CHICAGO FAUCET CO	952-CP /	
L-1	LAVATORY - WALL HUNG - ADA	KOHLER BRENHAM	K-1997-1W/ SHROUD K-1998	WHITE VITREOUS CHINA	SLOAN	SF2400	MOUNT AT 31" AFF JUVENILE HEIGHT IN ROOMS F106 AND F107. MOUNT AT STANDARD ADA HEIGHT IN ROOM F104.
LT-1	UTILITY SINK	MUSTEE	18F	MOLDED STONE	ELKAY	LK2000CR	
MB-1	JANITOR SINK	MUSTEE	63M	MOLDED STONE	CHICAGO FAUCET CO	C897CP	>
S-1	SINK - SINGLE	ELKAY	DRKAD222055C	STAINLESS STEEL	ELKAY	LK1000 (
S-2	HAND SINK	ELKAY	LRAD191855-MR2 W/ LK99 BASKET STRAINER	STAINLESS STEEL	DELTA	K-710LF-HDR	· · · · · · · · · · · · · · · · · · ·
S-3	WASH FOUNTAIN	BRADLEY	FL-3L	STAINLESS STEEL		5	MOUNT AT 31" AFF JUVENILE HEIGHT
UR-1	URINAL	KOHLER BRENHAM	K-4920-T-0	WHITE VITREOUS CHINA	SLOAN	186 ESS-0.12	5
WC-1	WATER CLOSET - WALL HUNG	KOHLER BRENHAM	К-84325-0	WHITE VITREOUS CHINA	SLOAN	111 ESS-1.28	}
WC-1A	WATER CLOSET - WALL HUNG	KOHLER BRENHAM	К-84325-0	WHITE VITREOUS CHINA	SLOAN	111 ESS-1.28	MOUNT AT ADA HEIGHT
WC-2	WATER CLOSET - FLOOR MOUNT - FLUSH VALVE	KOHLER BRENHAM	К-4920-Т-0	WHITE VITREOUS CHINA	SLOAN	111 ESS-1.28	

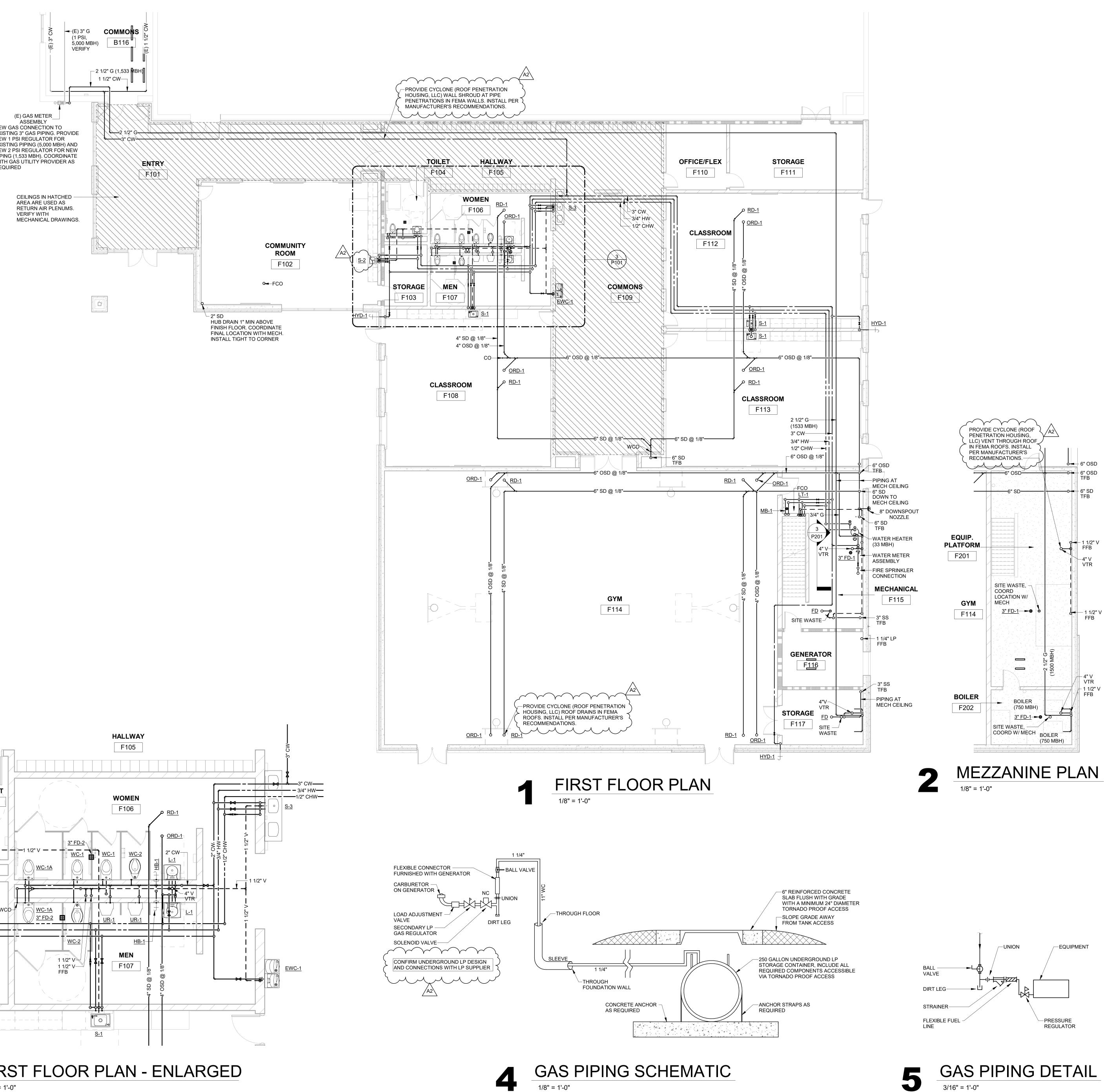
FIXTURE				PIPE SI	ZE		FIX	TURE UN	NITS
SYMBOL	FIXTURE DESCRIPTION	COUNT	WASTE	VENT	CW	HW	DFU	CWFU	HWF
EWC-1	ELECTRIC WATER COOLER	1	2"	1 1/2"	1/2"		0.5	0.25	0
FD-1	FLOOR DRAIN - ROUND	4	3"	2"			12	0	0
FD-2	FLOOR DRAIN - SQUARE	3	3"	2"			9	0	0
HB-1	HOSE BIBB	$\sim \sim \sim$	\sum		1/2"		0	9	0
HYD-1	EXTERIOR WALL HYDRANT	4	\sum		3/4"		0	16	0
L-1	LAVATORY - WALL HUNG - ADA	3)2"	1 1/2"	1/2"	1/2"	3	1.5	1.5
LT-1	UTILITY SINK	1	<2"	1 1/2"	1/2"	1/2"	1	1	1
MB-1	JANITOR SINK	1	3"	2"	3/4"	3/4"	4	2.25	2.2
ORD-1	OVERFLOW ROOF DRAIN	8					0	0	0
RD-1	PRIMARY ROOF DRAIN	8	∀ 4"				0	0	0
S-1	SINK - SINGLE	3	2"	1 1/2"	1/2"	1/2"	3	3	3
S-2	HAND SINK	1	J2"	1 1/2"	1/2"	1/2"	1	1	1
S-3	WASH FOUNTAIN	∇	2"	1 1/2"	1/2"	1/2"	1	1	1
UR-1	URINAL	2	2"	1 1/2"	3/4"		4	8	0
WC-1	WATER CLOSET - WALL HUNG	3	4"	2"	1"		18	19.5	0
WC-1A	WATER CLOSET - WALL HUNG	2	4"	2"	1"		12	13	0
WC-2	WATER CLOSET - FLOOR MOUNT - FLUSH VALVE	2	4"	2"	1"		12	13	0
and total: 50							80.5	88.5	9.7



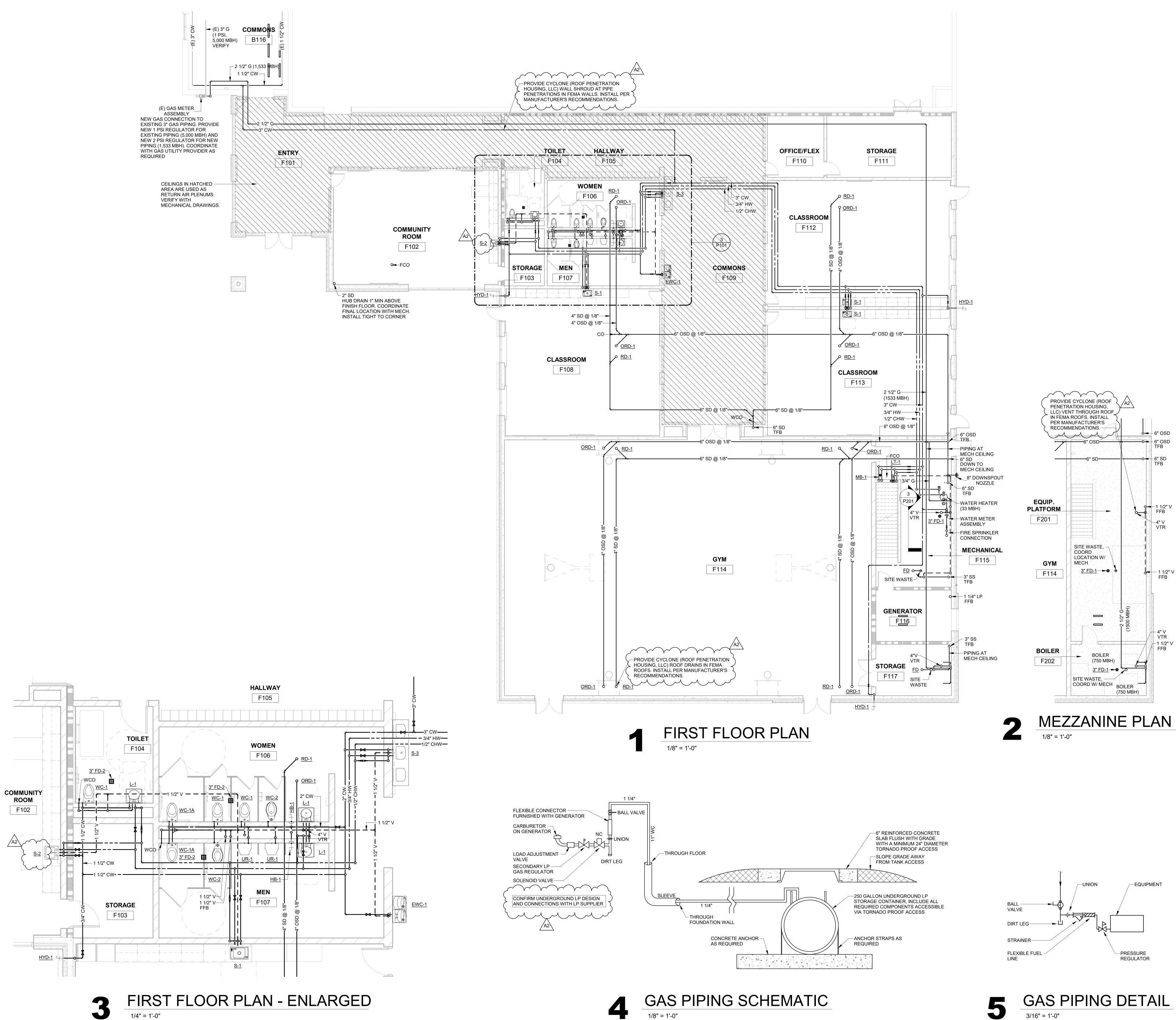
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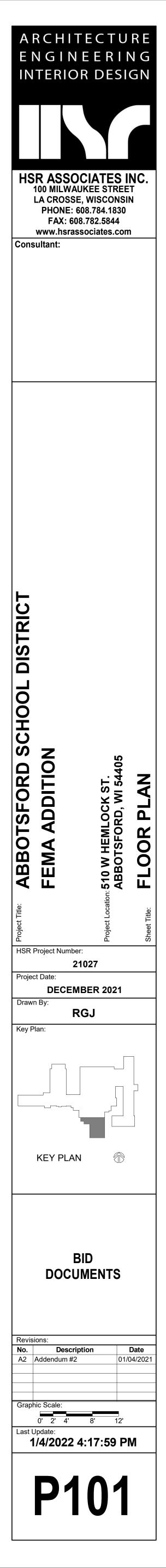


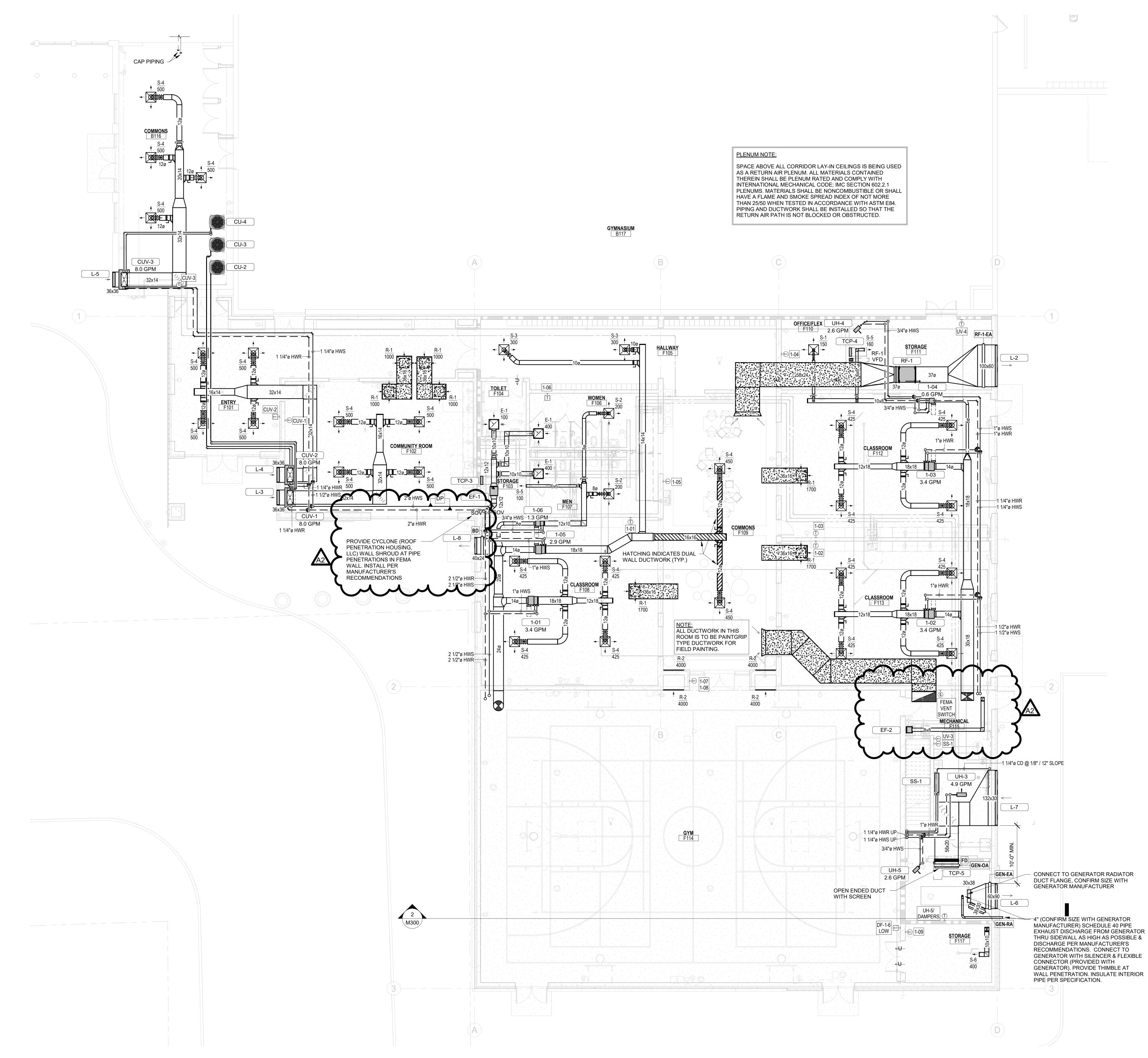


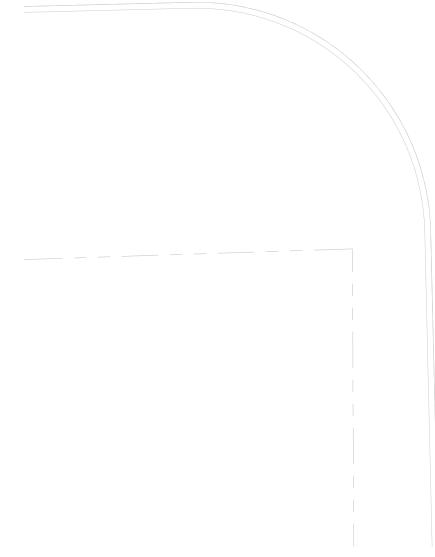


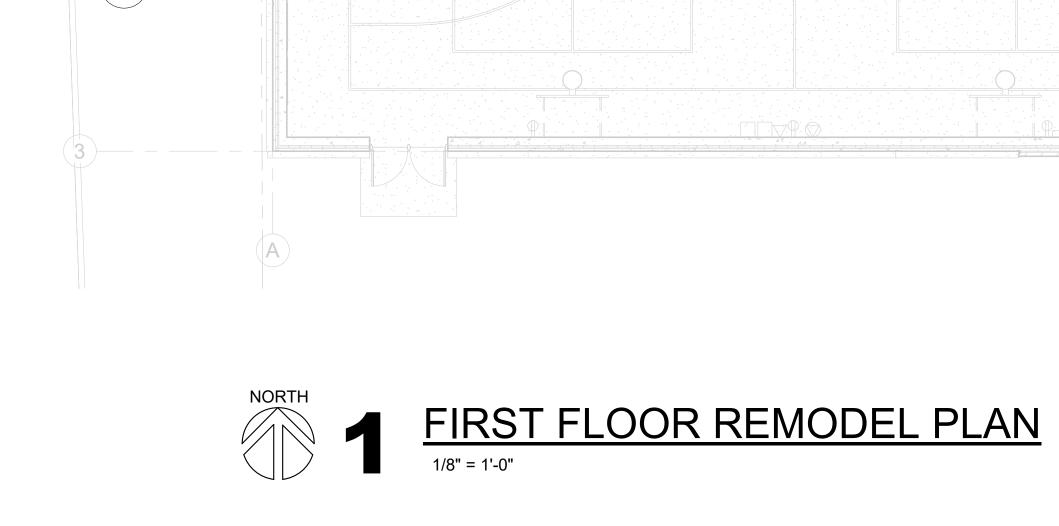


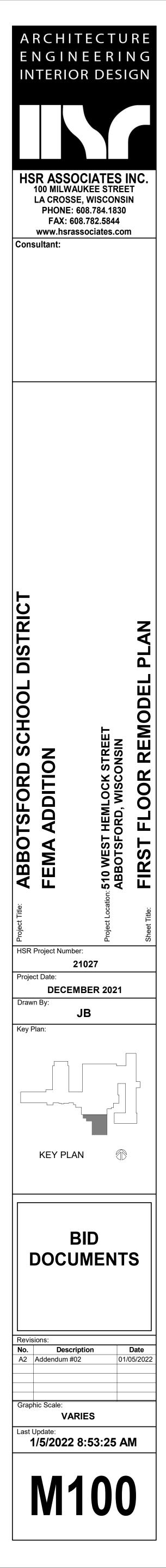


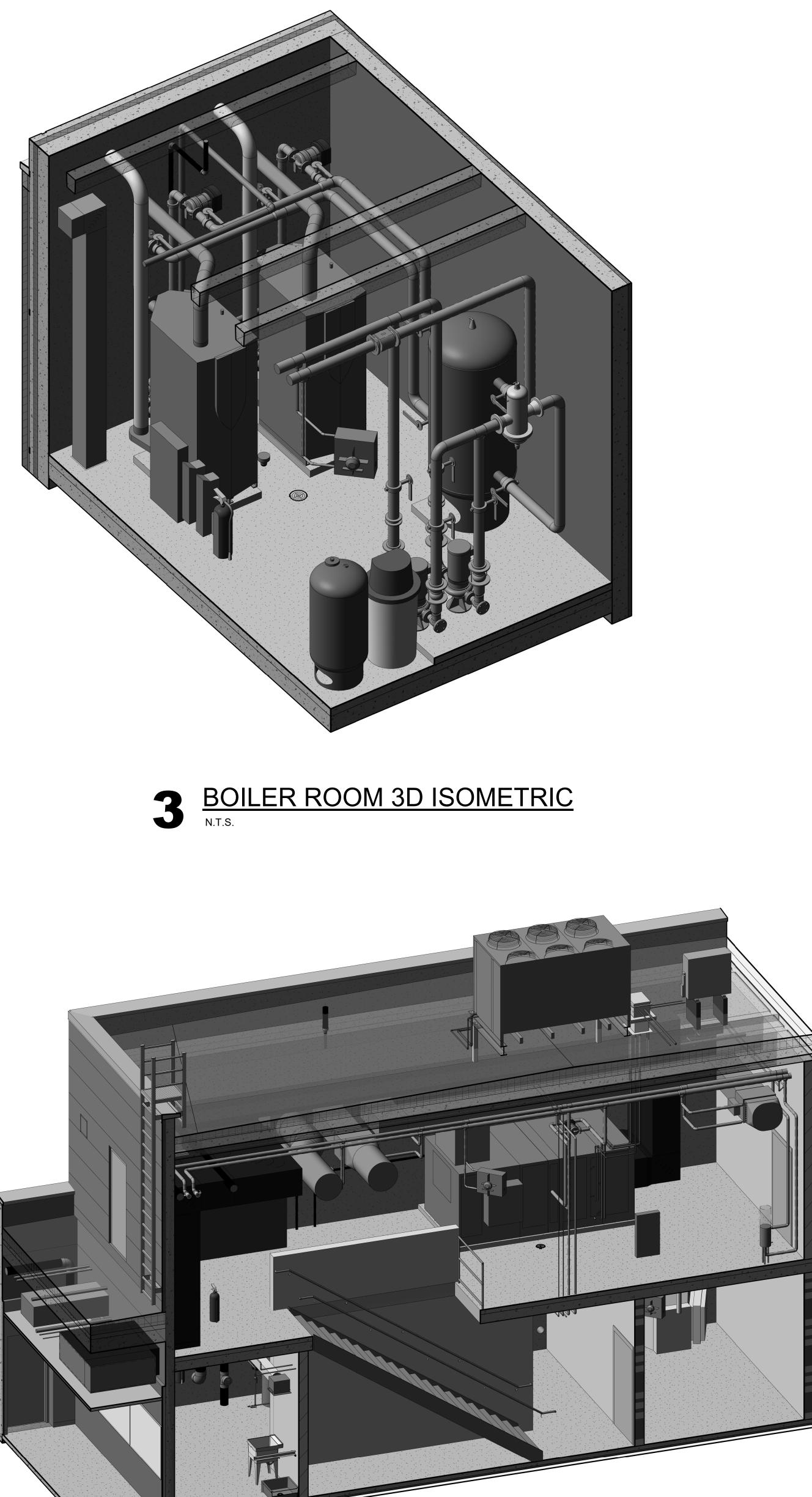




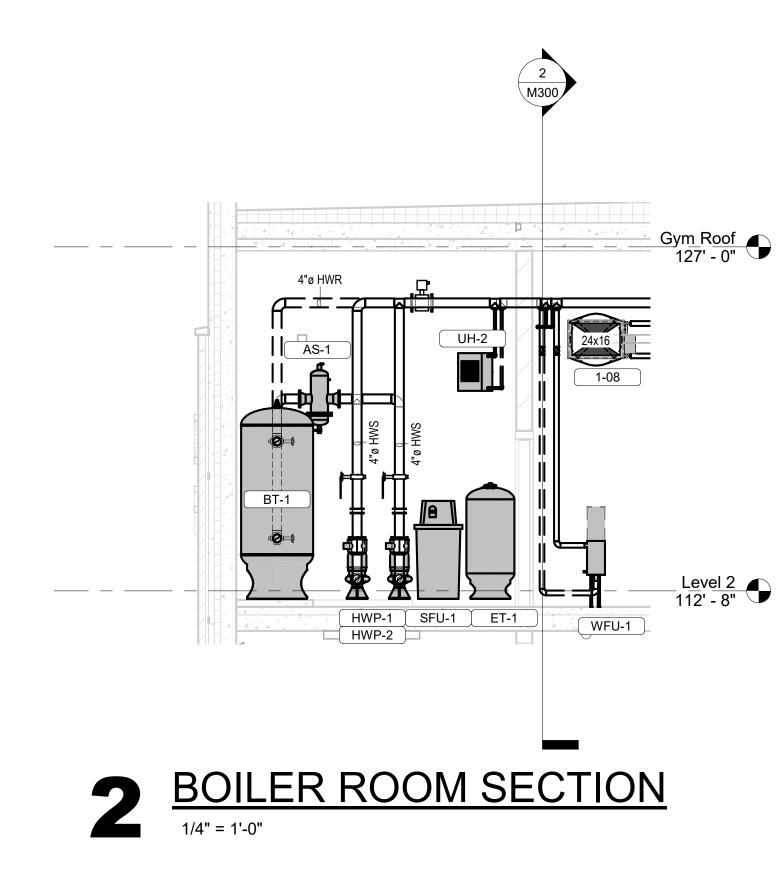


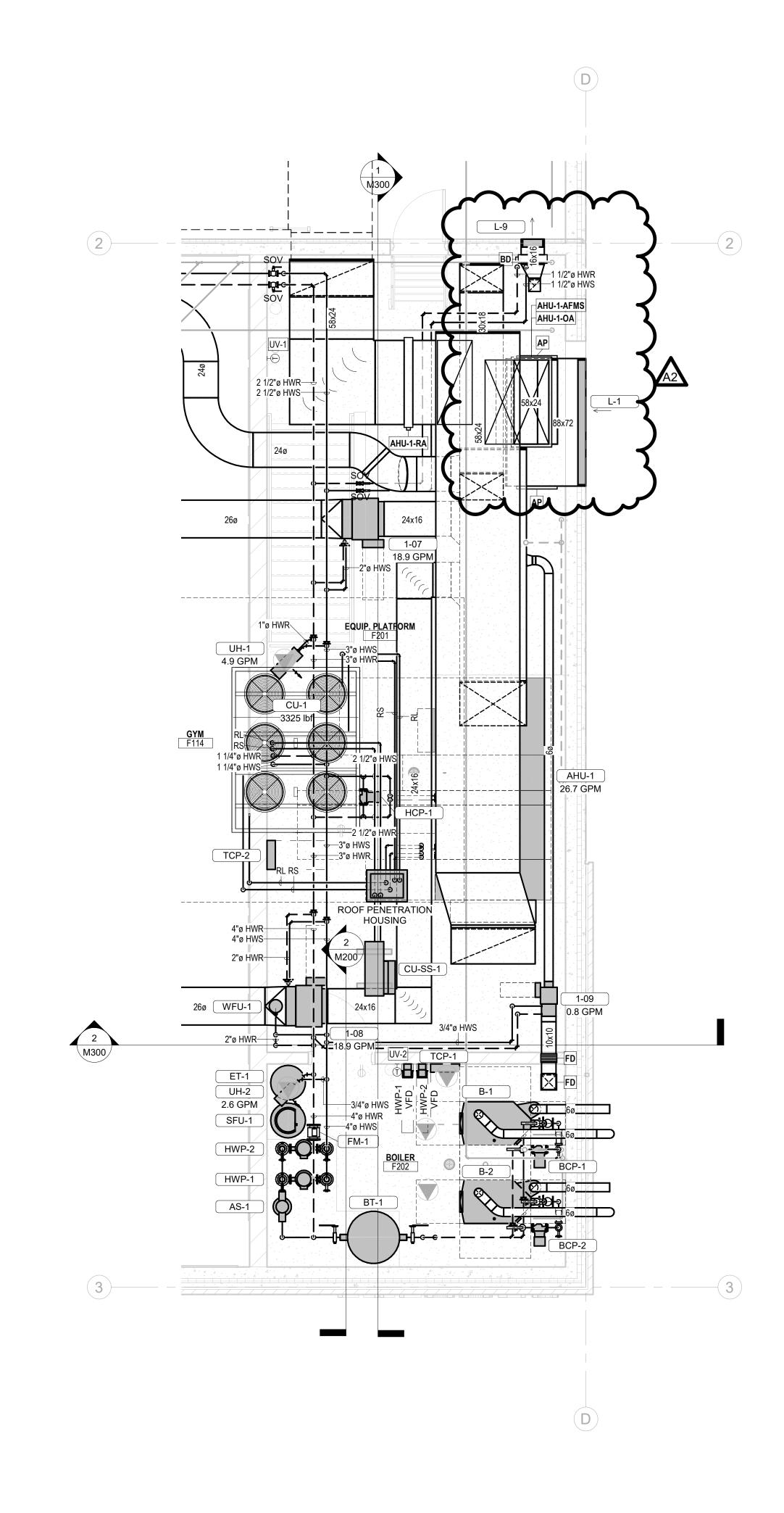




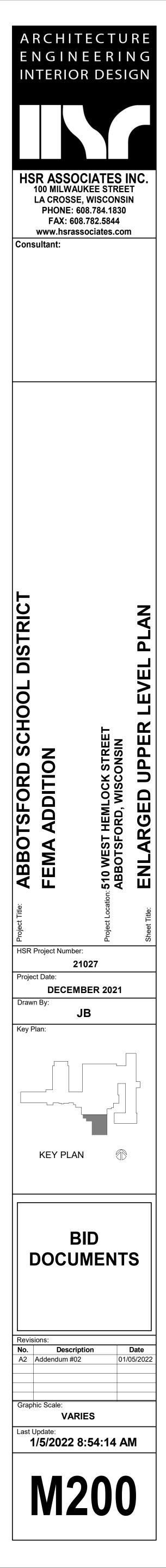








ENLARGED UPPER LEVEL PLAN NORTH



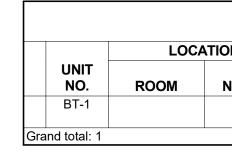
									LOUVE	ER SC	CHEDUL	E								
NO.	MANUFATURER	MUDEL NO	SYSTE	AIR LOW	FREE AREA	FREE REA VELOCITY	STATIC PRESS.	DAMPET TYPE	ТУР	\checkmark	SECTIONS	WIDTH	DIMENSIONS HEIGHT	EPTH	MATERIAL	PINISH	TIONS	WEIGHT	DEFERENCE	$\mathbf{\mathbf{\hat{\mathbf{A}}}}$
L-1	GREENHECK	AFL-501	AHU-1 INTAKE	14000 CFM	22.5 SF	620 FPM	0.10 in-wg	-	FEMA 361 & ICC 500		2	88"	72"	5.5"	ALUMINUM	KYNAR CUSTOM MATCH	BIRD SCREEN, EXTENDE DRIP SILL W/ END DAMS		7M502	RECES MOUNT
L-2 L-3	GREENHECK GREENHECK	AFL-501 ESD-635	RF-1 RELIEF CUV INTAKE/RELIEF	12000 CFM 2000 CFIVI	21.1 SF 5.0 SF	570 FPM 400 FPM	0.08 in-wg 0.02 in-wg	ىرى	FEMA 361 & ICC 500 FIXED DRAINABLE	く			60" 36"	5.5" 6.0	ALUMINUM	KYNAR CUSTOM MTCH KYNAR CUSTOM MATCH	BIRD SCREEN, EXTENDE DRIF SILL W/ END DAMS BIRD SCREEN, EXTENDE DRIP SILL W/ END DAMS	0 534 lbf 35 lbf	7M502 7M502	RECES
L-4	GREENHECK	ESD-635	CUV INTAKE/RELIEF	2000 CFM	5.0 SF	400 FPM	0.02 in-wg	-	FIXED DRAINABLE		1	36"	36"	6.0"	ALUMINUM	KYNAR CUSTOM MATCH	BIRD SCREEN, EXTENDE DRIP SILL W/ END DAMS		7M502	
L-5	GREENHECK	ESD-635	CUV INTAKE/RELIEF	2000 CFM	5.0 SF	400 FPM	0.02 in-wg	-	FIXED DRAINABLE		1	36"	36"	6.0"	ALUMINUM	KYNAR CUSTOM MATCH	BIRD SCREEN, EXTENDE DRIP SILL W/ END DAMS		7M502	
L-6	GREENHECK	AFL-501	GENERATOR EXHAUST	8200 CFM	19.0 SF	430 FPM	0.05 in-wg	-	FEMA 361 & ICC 500		2	60"	90"	5.5"	ALUMINUM	KYNAR CUSTOM MATCH	BIRD SCREEN, EXTENDE DRIP SILL W/ END DAMS		7M502	RECES MOUNT
L-7	GREENHECK	AFL-501	GENERATOR INTAKE	8400 CFM	12.9 SF	670 FPM	0.11 in-wg	-	FEMA 361 & ICC 500		2	132"	30"	5.5"	ALUMINUM	KYNAR CUSTOM MATCH	BIRD SCREEN, EXTENDE DRIP SILL W/ END DAMS		7M502	RECES MOUNT
	CALENHECK	AFL-50	EF-1 EXNAUST	SOO CFM	2.8	20TRPM	0.93 in-wo	\searrow	FEMA JOT & ICC 500	\checkmark				5.5"	ALLINTINUM	KTNAR CUSTON MATCH	BIRD SCREEN EXTENDE BRIP SILL WEND DAMS	e4 lbf	7M502	RECES MOON
L-9	GREENHECK	AFL-501	EF-2 EXHAUST	200 CFM	0.6 SF	370 FPM	0.03 in-wg	-	FEMA 361 & ICC 500	•	1	16"	16"	5.5"	ALUMINUM	KYNAR CUSTOM MATCH	BIRD SCREEN, EXTENDE DRIP SILL W/ END DAMS		7M502	RECES MOUNT
Grand total: 9	m									く										入

CIRCULATING PUMP SCHEDULE

	LOCA	ATION							PUMP						FLUID PROP	PERTIES		ELECTF	RICAL	REFERENCE	
UNIT									PUMP			MOTOR				GLYCOL	UNIT				
NO.	ROOM	NUMBER	MANUFACTURER	MODEL NO.	SYSTEM	TYPE	FLOW	HEAD	EFFICIENCY	IMPELLER DIA.	QUANTITY	POWER	RPM E	3HP	TYPE	%	WEIGHT	VOLTAGE	PHASE	DETAIL NO.	REMARKS
BCP-1			Тасо	VR15	BOILER	INLINE ECM WET ROTOR W/ INTEGRATED VFD	48.0 GPM	15 ftH2O	62.0%		1	0.60 hp	3400	0.29	NONE	0	26 lbf	120 V	1	2M501, 5M502	PROVIDED WITH BOILER
BCP-2			Тасо	VR15	BOILER	INLINE ECM WET ROTOR W/ INTEGRATED VFD	48.0 GPM	15 ftH2O	62.0%		1	0.60 hp	3400	0.29	NONE	0	26 lbf	120 V	1	2M501, 5M502	PROVIDED WITH BOILER
HCP-1			Тасо	VR15	AHU-1 HEATING COIL	INLINE ECM WET ROTOR W/ INTEGRATED VFD	27.0 GPM	15 ftH2O	59.0%		1	0.60 hp	2800	0.17	NONE	0	26 lbf	120 V	1	2M501, 1M502	
HWP-1			Тасо	2009 - 2x2	HEATING SYSTEM	Close-Coupled In-Line	150.0 GPM	80 ftH2O	72.0%	9.1	1	7.50 hp	1760	4.21	NONE	0	326 lbf	208 V	3		PROVIDE PUMP SUPPORT ST EMERGENCY POWER
HWP-2			Тасо	2009 - 2x2	HEATING SYSTEM	Close-Coupled In-Line	150.0 GPM	80 ftH2O	72.0%	9.1	1	7.50 hp	1760	4.21	NONE	0	326 lbf	460 V	3	1M501	PROVIDE PUMP SUPPORT ST

								EXH/	AUST	FAN SO	CHEDUI	LE					· · · · · · · · · · · · · · · · · · ·	1												
	LOCATION						EXHAUST F	FAN					ELECTRI	CAL REFE	RENCE)												
UNIT NO.	ROOM NUMB	MBER MANUFACT	TURER MODEL NO.	AIRFLOW		EXT. STATIC RESS.			RIVE YPE QUA		ι	JNIT EIGHT SONES	VOLTAGE	PHASE DETA	L NO.	REMARKS														
EF-1		Greenhee	eck SQ-120-VG	900 CFM CEN	TRIFUGAL 0	50 in-wg	0.14 hp ²	1164 DIR	RECT	1 0	0.50 hp 5	58 lbf 6.1	120 V	1 8M	502 PROVIE	DE HANGING SPRING ISOLATORS, FACTOR R. DISCONNECT SWITCH	Y VARIABLE SPEED DIAL ON	X												
EF-2		Greenhee	eck SP-A390	200 CFM C	EILING 0	50 in-wg	0.00 hp	1058 DIR	-	1 0	0.20 hp 2	26 lbf 3.0	120 V	1	PROVID	DE HANGING SPRING ISOLATORS, FACTOR R, DISCONNECT SWITCH	Y VARIABLE SPEED DIAL ON)												
RF-1		Greenhee	eck QEID-27	12000 CFM INLI	NE MIXED 0 FLOW	50 in-wg	2.11 hp	906 DIR	RECT	1 5	5.00 hp 48	85 lbf 18.9	460 V	3 8M	502 PROVIE	DE HANGING SPRING ISOLATORS, SHAFT G R, ACCESS DOOR, SURE-AIR FLOW STATION		X												
and total: 3																, , ,)												
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											S																			
										DN FAN ELECT (TWIST LOCK PLL	S TRICAL K CORD AND																			
UNIT.					dB(A) @	WEIGHT	DESTR			DN FAN	S TRICAL K CORD AND	VARIABLE SPEED	SAFETY																	
UNIT. NO. M	MANUFACTURER Zoofans		FAN TYPE	LOCATION			DESTR	ATIFIC	CATIC	DN FAN	S TRICAL K CORD AND UG) VOLTAGE	VARIABLE		COLOR BY A/E	DETAIL NO. 9M502															
UNIT. NO. M DF-1	MANUFACTURER Zoofans	R MODEL H50 AC	FAN TYPE SUSPENDED OPEN CEILING	LOCATION GYM	dB(A) @ 35 FT 35.5	WEIGHT LBS. 23	DESTR COVERAGE AREA 2000 SF	MAX CFM 1150	MAX RPM 1500	DN FANS ELECT (TWIST LOCK PLU FULL LOAD AMPS 0.7 A	S TRICAL K CORD AND UG) VOLTAGE 120/1	VARIABLE SPEED CONTROLLER 0-10V BAS	SAFETY CABLE Yes	COLOR BY A/E	DETAIL NO. 9M502	. REMARKS PROVIDE MOUNTING HARDWARE						5	YSTEM FF	EDER U	NIT SCH	EDULE				
UNIT. NO. M DF-1	MANUFACTURER	R MODEL	FAN TYPE SUSPENDED OPEN	LOCATION	dB(A) @ 35 FT	WEIGHT	DESTR	MAX	CATIC MAX RPM	DN FAN ELECT (TWIST LOCK PLU FULL LOAD AMPS	S TRICAL K CORD AND UG) VOLTAGE	VARIABLE SPEED CONTROLLER	SAFETY CABLE	COLOR	DETAIL NO.	REMARKS						S	YSTEM FE	EDER U	NIT SCH	EDULE				
UNIT. NO. M	MANUFACTURER Zoofans	R MODEL H50 AC	FAN TYPE SUSPENDED OPEN CEILING SUSPENDED OPEN	LOCATION GYM	dB(A) @ 35 FT 35.5	WEIGHT LBS. 23	DESTR COVERAGE AREA 2000 SF	MAX CFM 1150	MAX RPM 1500	DN FANS ELECT (TWIST LOCK PLU FULL LOAD AMPS 0.7 A	S TRICAL K CORD AND UG) VOLTAGE 120/1	VARIABLE SPEED CONTROLLER 0-10V BAS	SAFETY CABLE Yes	COLOR BY A/E	DETAIL NO. 9M502	. REMARKS PROVIDE MOUNTING HARDWARE			LOCATIO	N		S	YSTEM FE	PUMP		(ELECTRICAL PLUG AND CORD)	REFERENCE	ЭЕ	
UNIT. NO. M DF-1 DF-2	MANUFACTURER Zoofans Zoofans	R MODEL H50 AC H50 AC	FAN TYPE SUSPENDED OPEN CEILING SUSPENDED OPEN CEILING SUSPENDED OPEN CEILING SUSPENDED OPEN	LOCATION GYM GYM	dB(A) @ 35 FT 35.5	WEIGHT LBS. 23	DESTR COVERAGE AREA 2000 SF 2000 SF	MAX CFM 1150	MAX RPM 1500	DN FANS ELECT (TWIST LOCK PLU FULL LOAD AMPS 0.7 A 0.7 A	S TRICAL K CORD AND UG) VOLTAGE 120/1 120/1	VARIABLE SPEED CONTROLLER 0-10V BAS W/DF-1	SAFETY CABLE Yes Yes	COLOR BY A/E BY A/E	DETAIL NO. 9M502 9M502	. REMARKS PROVIDE MOUNTING HARDWARE PROVIDE MOUNTING HARDWARE		UNIT			NUFACTURER	S MODEL NO.			RGE TANK					ARKS
UNIT. NO. DF-1 DF-2 DF-3	MANUFACTURER Zoofans Zoofans Zoofans	R MODEL H50 AC H50 AC H50 AC	FAN TYPE SUSPENDED OPEN CEILING SUSPENDED OPEN CEILING SUSPENDED OPEN CEILING	LOCATION GYM GYM GYM	dB(A) @ 35 FT 35.5 35.5 35.5	WEIGHT LBS. 23	DESTR COVERAGE AREA 2000 SF 2000 SF 2000 SF	MAX CFM 1150 1150 1150	CATIC MAX RPM 1500 1500 1500	DN FANS ELECT (TWIST LOCK PLU FULL LOAD AMPS 0.7 A 0.7 A 0.7 A	S TRICAL K CORD AND UG) VOLTAGE 120/1 120/1 120/1	VARIABLE SPEED CONTROLLER 0-10V BAS W/DF-1 W/DF-1	SAFETY CABLE Yes Yes Yes	COLOR BY A/E BY A/E BY A/E	DETAIL NO. 9M502 9M502 9M502 9M502	. REMARKS PROVIDE MOUNTING HARDWARE PROVIDE MOUNTING HARDWARE PROVIDE MOUNTING HARDWARE					NUFACTURER AXIOM			PUMP DISCHA	rge tank Ire volume		PLUG AND CORD)			

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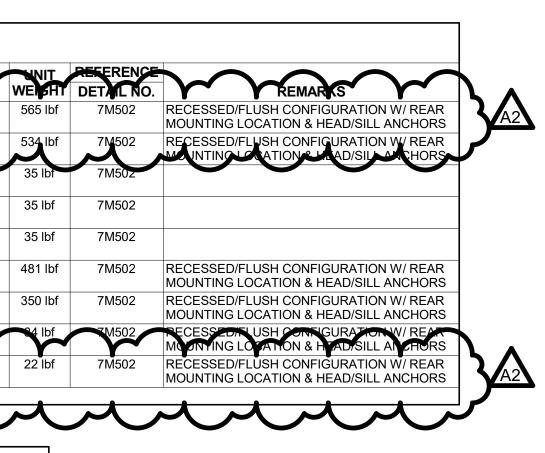


UNIT NO. AS-1 Grand total: 1

UNIT NO. TYF ET-1 BLAD Grand total: 1

					ELE	ECTRO	NIC F	LOW	METE	R SCH	EDULE				
								FLUID F	PROPERTIES			VALVE PR	OPERTIES		
	UNIT NO.	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL	SYSTEM	MIN. TEMP.	MAX. TEMP.	MAXIMUM FLOW	GLYCOL TYPE	GLYCOL %	NOMINAL DIAMETER	MIN. RATED FLOW	REFERENCE DETAIL NO.	
	FM-1	Electromagnetic Flow Meter with Junction Box	ONICON	F-3204	CARBON STEEL, PTFE LINER	HEATING SYSTEM	32 °F	180 °F	150.0 GPM	NONE	0	4"	3.8 GPM	9M501	PROVIDE SYSTEM-10 BTU M W/ BAS INTEGRATION. PRO REMOTE MOUNT DISPLAY.
Gra	nd total: 1														

								WAT	ER FILT	ER l	JNIT S	SCHE	DULE					
		LOCATION REFERENCE																
	UNIT																	
	NO.	ROOM	NUMBER	MANUFACTURER	MODEL NO.	SYSTEM	DESCRIPTION	EFFICIENCY	FLOW RATE	QTY.	LENGTH	VOLUME	DIAMETER	HEIGHT	DIAMETER	WEIGHT	DETAIL NO.	REMARKS
	WFU-1			PARKER	FE6-1-2	HEATING	BYPASS FILTER	5 MICRON	30.0 GPM	6	10"	3.6 gal	0' - 8 11/32"	2' - 9"	2"	115 lbf	4M501	INCLUDE EXTRA FILTER SETS PER SPECIFICATION.
						SYSTEM												INCLUDE FLOOR MOUNTING LEGS.
Gra	nd total: 1																	



			BUFFE	R TANK	SCHED	ULE					
TION						DIMEN	ISIONS			REFERENCE	
NUMBER	MANUFACTURER	MODEL NO.	SYSTEM	ASME TANK VOLUME	DIAMETER	HEIGHT	INLET DIAMETER	OUTLET DIAMETER	UNIT WEIGHT	DETAIL NO.	REMARKS
	Тасо	MPT0300G04-125N1AN	HEATING SYSTEM	300.0 gal	3' - 0"	8' - 0"	4"	4"	940 lbf	3M501	PROVIDE 3/4" NPT P/ PORTS AT EACH NO
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				AIR	R/DIRT SE	PARAT	OR SCH	IEDULE			
ΙΙТ	LOCA	TION						MAX PRESSURE	CONNECTION	REFERENCE	
) .	ROOM	NUMBER	MANUFACTURER	MODEL NO.	TYPE	SYSTEM	MAX FLOW	DROP	DIAMETER	DETAIL NO.	REMARKS
5-1			Spirotherm	VDN 400 FA	COALESCING	HEATING SYSTEM	150.0 GPM	1.0 ftH2O	4"	4M502	

		EXPANSION TANK SCHEDULE										
										0.111		
YPE	MANUFACTURER	MODEL NO.	SYSTEM	VOLUME	VOLUME	FILL PRESSURE	RELIEF	DIAMETER	HEIGHT	WEIGHT	DETAIL NO.	REMARKS
ADDER	Тасо	CA300-125	HEATING SYSTEM	79.0 gal	79.0 gal	12.0 psi	50.0 psi	1' - 8"	4' - 10"	978 lbf	4M502	INCLUDE SIGHT GLASS

