DOCUMENT 00 90 00
ADDENDUM

ADDENDUM NO. [1] **Date: July 25, 2019**

RE: **SCHOOL DISTRICT OF HOLMEN**
HIGH SCHOOL ADDITION AND REMODELING BID PKG #2
1001 McHUGH ROAD
HOLMEN, WISCONSIN 54636
HSR 18061

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 July 2019. 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 [5] pages, Pre-bid attendance, Revised Bid Form, [5] specification sections and [24] 30 x 42 drawings.

CHANGES TO BIDDING REQUIREMENTS AND CONDITIONS OF THE CONTRACT:

1. Pre-bid attendance sheet attached hereto
2. Section 00 41 00 BID FORM
    a. Revised Bid Form attached hereto.
    b. The Owner has asked for consideration of pricing of optional control packages in Division 23, described in this Addendum. Use “Bidders Choice Substitution” portion of the Bid Form to provide pricing for those packages, if received from Division 23 Contractors.
3. Section 01 23 00 ALTERNATES
    a. Revised section attached hereto as part of Contract Documents.

CHANGES TO SPECIFICATIONS:

4. Section 08 33 23 OVERHEAD COILING DOORS
    a. 2.04, D, 3: Entrapment protection only applies to doors connected to alarm and with fusible link.
5. Section 08 36 13 SECTIONAL DOORS
    a. 2.02, A: Refer to floor plans and door schedule for locations of exterior and interior doors. Not all doors are insulated.
    b. 2.05:
        i. D: Delete paragraph 3 and subparagraphs a. and b.
        ii. Delete Item E. Safety edges not required with continuous-contact control device.
6. Section 08 71 00 DOOR HARDWARE
    a. Swing door operators shall be LCN, no substitute. Campus standard.

7. Section 11 40 00 FOOD SERVICE
    a. Item 41 Air Curtain Merchandisers, Line G: Delete text and replace with “Rear access doors”.
8. Section 11 61 13 ACOUSTICAL SHELLS
    a. Section attached hereto as part of Contract Documents.
9. Section 12 61 00 FIXED AUDIENCE SEATING
    a. Delete 2.05, A. Tablet arms not required.
10. Section 23 09 14 ELECTRIC INSTRUMENTATION AND CONTROL DEVICES FOR HVAC
    a. PRICING FOR THE APPROVED PRODUCTS BELOW SHALL BE SUBMITTED TO THE GENERAL CONTRACTORS AS A “BIDDERS CHOICE SUBSTITUTION” AND ENTERED IN THAT AREA OF THE BID FORM FOR THE OWNER’S CONSIDERATION.
    b. 1.02: Revise as follows;
        A. Basis of Design shall extend existing Johnson Controls System. Add modules and components as required.
            ii. Approved additional DDC Control Systems by Trane and Invensys shall be a separate system. Include new modules and components as required.
    c. 2.03: Approved additional DDC Control Systems by Trane and Invensys.
11. Section 23 09 23 DIRECT DIGITAL CONTROL SYSTEM FOR HVAC
    a. 2.02: Replace A. with the following:
        A. DDC Control system manufacturer basis of design shall be Johnson Controls
            ii. Approved additional DDC Control system cost from Trane and Invensys shall be entered on Bidder’s Choice Substitution Article on Bid Form.
12. Section 23 21 17 AIR CONTROL DEVICES
    a. Replace entire Article 2.03 with the following:

        2.03 TANGENTAIL-TYPE AIR SEPARATORS

        A. Based on products by Bell and Gossett.
            1. AMTROL, Armstrong, and Taco equals are acceptable.
        B. Welded black steel, ASTM constructed and labeled for 125-psig minimum working pressure and 375 deg F maximum operating temperature, stamped and registered in accordance with ASME Section VIII, Division 1 for unfired pressure vessels.
        C. Shall have a perforated stainless-steel air collector tube designed to release air from solution.
        D. Tangential inlet and outlet connections: Treaded for 2” and smaller; flanged connections for 2 ½” and larger.
        E. Blowdown connection: Threaded.
        F. See schedule on plans for size and capacity.

    b. Replace entire Article 3.02 with the following:

        3.02 TANGENTAIL-TYPE AIR SEPARATORS

        A. Use reducing fittings if tappings are less than pipe size; mount in piping with U-support and pipe to floor flange, each side at connections. Bottom to be open and clear for removal of strainer.

13. Section 26 09 16 ELECTRONIC CONTROLS
    a. Section attached hereto as part of Contract Documents.
14. Section 27 51 17 PUBLIC ADDRESS SYSTEM
    a. This section replaces original issue.
15. Section 28 31 00 FIRE DETECTION AND ALARM
    a. This section replaces original issue

CHANGES TO DRAWINGS

16. Sheet C201 GRADING PLAN 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
17. Sheet L103 LANDSCAPE PLAN 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
18. Sheet A102 FLOOR PLAN – SEGMENT B 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
    b. CMU wall extended at Hallway B111
19. Sheet A103 FLOOR PLAN-SEGMENT C&D 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
20. Sheet A121 REFLECTED CEILING PLAN-SEGMENT A 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
21. Sheet A123 REFLECTED CEILING PLAN-SEGMENT C 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
22. Sheet A126 AUDITORIUM CEILING PLAN 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
23. Sheet A200 EXTERIOR ELEVATIONS 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
24. Sheet A204 INTERIOR ELEVATIONS 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
    b. Detail 4: Add recessed speaker locations in the front wall.
25. Sheet A206 INTERIOR ELEVATIONS 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
26. Sheet A601 WALL TYPES 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
    b. Acoustical panel layout adjusted based on AV equipment layout.
27. Sheet A602 DOOR SCHEDULE 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
    b. Glass types at exterior overhead doors shall be insulated tempered glass-manufacturer's standard.
28. Sheet ID600 MASTER COLOR SCHEDULE 30 x 42 attached hereto
    a. Revisions clouded on Drawing.

29. Sheet M101 MECHANICAL DUCT REMODEL PLAN – SEG A 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
30. Sheet M102 MECHANICAL DUCT REMODEL PLAN – SEG B
    a. Added return grille tagged G-28 and duct sized at 20”X10” for Coach’s Conference B119. Duct shall transfer to adjacent BOYS LOCKER ROOM B115 with sidewall grille G-28.
31. Sheet M104 MECHANICAL DUCT REMODEL PLAN – SEG E 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
32. Sheet M105 MECHANICAL DUCT REMODEL PLAN – SEG F
    a. Existing Laser cutter to be relocated and use exhaust with filtered box. New laser cutter shall use exhaust with filtered box. Coordinate final locations with owner. Transfer grille in OFFICE E103 tag number revised to G-27. Revised Dedicated Heat Recovery Unit (DHRC-1) orientation.
33. Sheet M106 OVERALL MECHANICAL PIPING REMODEL PLAN 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
34. Sheet M107 MECHANICAL PIPING REMODEL PLAN – SEG A 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
35. Sheet M108 MECHANICAL PIPING REMODEL PLAN – SEG B 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
36. Sheet M109 MECHANICAL PIPING REMODEL PLAN – SEG C&D 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
37. Sheet M110 MECHANICAL PIPING REMODEL PLAN – SEG E
    a. Buried make-up water pipe removed.
38. Sheet M11 MECHANICAL PIPING REMODEL PLAN – SEG F
    a. VAV boxes 15 & 15 (VAV-15 & 16) are to be new connections to existing hot water supply & return (X-HWS&R).
39. Sheet M504 HVAC DETAILS 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
40. Sheet M600 HVAC SCHEDULES 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
41. Sheet M601 HVAC SCHEDULES 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
42. Sheet M602 HVAC SCHEDULES 30 x 42 attached hereto
    a. Revisions clouded on Drawing.
43. Sheet M603 HVAC SCHEDULES 30 x 42 attached hereto
    a. Revisions clouded on Drawing.

PRIOR APPROVALS

1. Section 09 65 66 RESILIENT ATHLETIC FLOORING
    a. Spec Athletic: Polysport 7 + 2 and Polysport 9 + 2.
    b. Tarkett Sports: Polyturf Plus Pad and Pour 9 + 2
2. Section 10 11 24 TACKABLE WALL COVERING:
    a. Write Walls, tackNOW.
3. Section 10 51 13 METAL LOCKERS
    a. Tiffin Metal Products; Infinity Locker System
4. Section 11 61 23 STAGE RIGGING
    a. The Janson Industries
5. Section 23 35 15 WELDING FILTRATION SYSTEM
    a. Klimawent ERGO M-4" Extraction Arms
6. Section 26 51 00 INTERIOR LIGHTING AND 26 56 01 EXTERIOR LIGHTING
    a. Luma
7. Section 26 80 01 ELECTRIC HAND DRYERS
    a. Saniflow Corp; Speedflow Plus

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ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR Associates

Celebrating 65 Years of Innovative Design

Pre-Bid Meeting Sign-In Sheet

July 25, 2019

PROJECT: **SCHOOL DISTRICT OF HOLMEN**
HIGH SCHOOL ADDITION AND REMODELING BID PKG #2
1001 McHUGH ROAD
HOLMEN, WISCONSIN 54636
HSR 18061

BID OPENING: 2:00 PM, August 8, 2019

Name	Company
1. Doug Ramsey	HSR
2. Michelle Maland	"
3. Mike Lovens	"
4. Shaun Lescher	"
5. Scott Gerszik	"
6. John Daily	Holmen SD
7. Kevin Mallein	"
8. Wayne Sackett	"
9. Mike Seichter	M+J
10. Mark Clough	F. Stanek Electric
11. MIKE ALLEN	FOWLER & HANNER, INC
12. ROD KUNSMAN	B+B Electric
13. SHAUN MESSER	AHERN
14. JOE GRANEY	HOWARD IMMEL
15. KEVIN LISOWSKI	R.J. JUDOWSKI CONST.
16. Dan Mathy	Mathy Excavating
17. Kent Nelson	Badger E & E
18. Tim Fitzpatrick	1st Business Solutions, Inc
19. KYLE KOENEN	"

Name	Company	Phone No.	E-mail
20. Tim Parker	Summit	(651) 295-5571	tparker@summitcous.com
21. Todd Buchner	Bernie Buchner	(608) 784-9000	toddbuchner@centurytel.net
22. FRED LUND	CRM	(608) 783-6950	COULEEREGIONMECHANICAL@GMAIL.COM
23. Kyle Thesing	Kish Electric	(608) 785-0207	kthesing@kishelectric.com
24. Blaine Young	Zimmerman Plumb.	608 742-3222	byoung@zimmermanplumbing.com
25. M.L. MAHER	REED CONCRETE	608 769 4779	MMAHER@REEDCONCRETE.COM
26. JOHN RADECKI	7 RIVERS MECH	608-799-5161	JOHN@7RIVERSMECH.COM.
27. Steve Henderson	A.M.S.	608 792-6943	
28. Adam Reuter	AMS	608 397 8606	areuter@amsaudiovideo.com
29. Josh Twitchell	Left Coast Powder Coating	608-790-9356	josh@leftcoastpowdercoating.com
30. Joe Draper	Wieser Brother	501-895-8903	Bids@wieserbrothers.com
31. Jesin Yehlike	Olympic Builders	608-526-4622	office@olympicbuildersgc.com
32. LIDIA FRIAS	MIRON	9207797769	~~lidia.frias@~~ estimating@miron-construction.com
33. MATT LANGE	BRICKL	(608)769 6070	~~MATT@~~ MLANGE@BRICKLBROS.COM
34. Michael Diehl (-Estimator)	Brickl Bros., Inc.	608-769-9267	mdiehl@bricklbros.com
35. DUSTY SCHAUER	S+S MECH	608-792-6770	
36. KENT WAGNER	PARAGON ASSOC	608 781-3110	KENTW@PARAGON-ASSOC.BIZ
37.			
38.			
39.			
40.			

DOCUMENT 00 41 00

BID FORM - REVISED

BIDDER:_____

BID FOR SINGLE PRIME CONTRACT

PROJECT: **SCHOOL DISTRICT OF HOLMEN**
HIGH SCHOOL ADDITION AND REMODELING BID PKG #2
1001 McHUGH ROAD
HOLMEN, WISCONSIN 54636
HSR 18061

TO: **SCHOOL DISTRICT OF HOLMEN**
1019 McHUGH RD
HOLMEN, WISCONSIN 54636
ATT: JOHN DAILY

BASE BID

The undersigned, having examined the site where the Work is to be executed and become familiar with local conditions affecting the cost of the Work and carefully examined the Project Manual, the Project Drawings, all other Bidding Documents and Addenda thereto prepared by the AE, HSR Associates, Inc., hereby agrees to provide all labor, materials, equipment and services necessary for the complete and satisfactory execution of the ENTIRE WORK, in the time frame stipulated in these contract documents, for the Base Bid stipulated sum of:

_____

_____Dollars ($_____.00)

The Base Bid stipulated sum, stated above, includes work by the following major subcontractors intended for Work on this Project:

ALTERNATE BIDS

The undersigned further agrees to perform the alternative portions of the Work as described in the Project Manual, Section 01 23 00 Alternates, for the following additions to or deductions from the Base Bid sum stipulated above:

Alternate No. 1 LP Mix Station Building

Add _____ Dollars ($_____.00)

Alternate No. 2: General Purpose Linesets

Add _____ Dollars ($_____.00)

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Alternate No. 3: Ceiling Shell Units

Add _____ Dollars ($_____.00)

Alternate No. 4: Acoustical Shell

Add _____ Dollars ($_____.00)

UNIT PRICES

A. Unit Price UP-1: Excess Excavation

Per cubic yard _____ Dollars ($_____.00)

B. Unit Price UP-2: Compacted Fill

Per cubic yard _____ Dollars ($_____.00)

BIDDER'S CHOICE SUBSTITUTIONS

The following Bidder's Choice Substitution is proposed for your consideration subject to the requirements set forth in Document 00 22 13 Supplementary Instructions to Bidders, Subparagraph 3.3.4:

Substitution No. S1:

For substituting_____

_____

Type, Brand, Catalog No._____

Manufacturer_____

Deduct from BASE BID _____ Dollars ($_____.00)
In submitting this Bid, the undersigned agrees to:

1. Hold this Bid open for **60** days.
2. Accept the provisions of Instructions to Bidders regarding disposition of Bid Security.
3. Enter into and execute an Agreement, if awarded on the basis of this Bid, and to furnish Performance and Labor and Material Payment Bonds according to the Supplementary Conditions.
4. Accomplish work according to the Contract Documents.
5. Complete the work by the time stated in Section 01 10 00 Summary of the Work.

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Receipt of the following Addenda and inclusion of their provisions in this Bid is hereby acknowledged:

Addendum No._____ Dated_____

Addendum No._____ Dated_____

Addendum No._____ Dated_____

Addendum No._____ Dated_____

Attached hereto are the required:

a. ( ) Bid Security

b. ( ) 00 45 13 Certificate of Organization and Authority

c. ( ) 00 45 17 Non-Collusive Affidavit: An affidavit in proof that the undersigned has not entered into any collusion with any person in respect to this Bid or any other bid or the submitting of bids for the contract for which this bid is submitted.

d. ( ) 00 45 19 Certification of Non-segregated Facilities

e. An executed Document 00 45 15 Disclosure of Ownership is:

( ) Attached hereto
( ) Not applicable to the undersigned Bidder

FIRM NAME: _____

(Affix seal if Corporation)

By: _____

Title: _____

By: _____

Title: _____

Date: _____

Official Address: _____

_____

Telephone: _____

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SECTION 01 23 00

ALTERNATES REVISED

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Description of Alternates.

1.02 RELATED REQUIREMENTS

A. Document 00 21 13 - Instructions to Bidders: Instructions for preparation of pricing for Alternates.

1.03 DESCRIPTION

A. Conditions of the Contract and pertinent portions of Sections in Division One of this Project Manual, apply to the Work of this Section as fully as though repeated herein.

B. This Section describes the alternates to the project. Refer to the Product/Execution Articles of the Contract Documents for information pertaining to the work of each alternate.

C. Each proposal under an alternate shall include all incidental work and all adjustments necessary to accommodate the changes. All work shall meet the requirements of the Contract Documents.

D. Each alternate proposal shall be submitted as an individual cost for the particular alternate and shall be proposed under the premise that no other alternates have been accepted. Should the work of an alternate called for by the Bid Form not affect the cost of the work, "No Change" shall be stated.

E. Owner may, at his option, vary the scope of the work by authorizing alternates which will add to the work, deduct from the work or substitute materials, equipment or methods.

F. Immediately following Award of Contract, awarded Contractor shall prepare and distribute to each party involved, notification of the status of each alternate. Indicate whether alternates have been accepted, rejected, or deferred for consideration at a later date. Include a complete description of negotiated modifications to alternates, if any.

1.04 ACCEPTANCE OF ALTERNATES

A. Alternates quoted on Bid Forms will be reviewed and accepted or rejected at Owner's option. Accepted Alternates will be identified in the Owner-Contractor Agreement.

1.05 SCHEDULE OF ALTERNATES

A. Alternate No. 1: LP Building and Mix Station
   1. The following work shall be priced under Alternate No. 1: State the amount to be added to the base bid to construct the LP mixing building. Work includes but is not limited to concrete slab on grade with frost walls, concrete masonry and brick construction, steel beam framing, metal deck and membrane roof system. Refer to Sheet A107. LP equipment does not change. Base bid is 8 ft x 8 ft x 4 inch concrete slab with 12 inch thickened edge and 3 x 3 foot concrete slab for gas meter.

B. Alternate No. 2: General Purpose Linesets
   1. The following work shall be priced under Alternate No. 2: State the amount to be added to the base bid to provide and install linesets indicated as "Alternate 2" on Rigging Lineset Schedule on Sheet QT104.

C. Alternate No. 3: Ceiling Shell Units
   1. The following work shall be priced under Alternate No. 3: State the amount to be added to the base bid to provide and install ceiling shell units indicated as "Alternate 3" on Rigging Lineset Schedule on Sheet QT104.

D. Alternate No. 4: Acoustical Shell
   1. The following work shall be priced under Alternate No. 4: State the amount to be added to the base bid to provide and install acoustical shell as shown on Sheet QT103.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

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SECTION 11 61 13

ACOUSTICAL SHELLS

GENERAL

1.1 SECTION INCLUDES

A. Concert shells.

1.2 SUBMITTALS

A. Comply with Section 01 30 00 Administrative Requirements.

B. Product Data: Submit manufacturer's product data, including the following:
   1. Detailed specification of construction and fabrication.
   2. Description of operations, including step by step set-up and take-down tasks.
   3. Complete list of deviations from specifications.

C. Shop Drawings: Submit manufacturer's shop drawings, including plans, elevations, sections, and details, indicating dimensions, tolerances, materials, components, fabrication, fasteners, hardware, finish, options, and accessories.

D. Samples: Submit 2 sets of manufacturer's samples for color selection or verification of acoustical reflective material.

E. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.

F. Manufacturer's Project References: Submit manufacturer's list of successfully completed concert shell projects, including project name and location, name of architect, and type and quantity of concert shells furnished.

G. Contract Closeout Submittals: Submit contract closeout submittals as follows:
   1. Operating and maintenance manuals, including the following:
      a. Operation, maintenance, adjustment, and cleaning instructions.
      b. Troubleshooting guide.
      c. Parts list.
      d. Detailed information required for Owner to properly operate and maintain concert shells.
   2. Setup configuration layout and details to permit verification of safety design requirements.
   3. Project record documents.

H. Warranty Documentation: Submit manufacturer's standard warranty.

1.3 QUALITY ASSURANCE

A. Manufacturer's Qualifications: Minimum 25 years of experience in the manufacturing of concert shells.

B. Manufacturer's Quality Control:
   1. Manufacturer shall make or have made, under their control, all parts comprising complete concert shells.
   2. Maintain test and inspection procedures, to assure uniform high quality of all raw materials and finished product.
   3. Manufacturer shall have capacity and facilities to furnish quality and quantity required without delaying the Work.

C. Welder's Qualifications: AWS certified for each type of weld required.

1.4 DELIVERY AND STORAGE

A. Delivery Requirements: Deliver concert shells to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

B. Storage Requirements: Store concert shells at location designated by the Owner.

1.5 WARRANTY

A. Warranty Period: 2 years from date of delivery.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Manufacturer: StageRight, 495 Pioneer Parkway, Clare, Michigan 48617. Toll Free 800-438-4499. Website www.stageright.com. E-mail stageright@rogersgrp.com.

B. Single Source: Provide all components of concert shells by single manufacturer.

2.2 SYSTEM DESCRIPTION

A. Concert Shells: "Opus II".
   1. Moveable wall towers and ceiling that reflect a maximum range of audible frequencies.

2.3 TOWERS, SIDE AND BACK WALLS

A. Towers:
   1. Self-supporting, sound-reflecting towers with counterweighted, nesting bases.
   2. 3 radiused panels hinged together to obtain tower width as indicated on the Drawings.
   3. Maximum Total Width per Tower: 12 feet.
   4. Maximum Total Height of Tower: 30 feet.

B. Base Assembly:
   1. Counterweight:
      a. Significant weight to safely move towers about stage.
      b. Permanently fastened to tower frame.
   2. Towers nest within each other to use a minimum of storage space.

C. Structural Frame: Incorporate tower wing hinges.

D. Tower Transporter:
   1. Supply 1 tower transporter.
   2. Locks onto and lifts towers, allowing them to move safely about stage.
   3. Transporter Frame:
      a. 2-inch OD steel tube.
      b. Casters: Three 5-point, zero-throw, orbital casters, each with a load rating of 1,750 lbs.
   4. Allow towers to be moved in any direction to speed setup.
   5. Tower Lifting:
      a. Hydraulic pump and rams.
      b. Devices requiring electrical power cord to transport towers: Not acceptable.
   6. Finish: Black, baked-on powder coat.

E. Each Base: 3 adjustable height levelers to allow for minor irregularities in stage floor.

F. At Installation of Towers:
   1. Insert numbered markers flush with stage floor indicating location of each tower to ensure consistent setup.
   2. Markers: Coded to match each of the arrangements indicated on the Drawings.

G. Each Side-Wall Tower: 2 doorways for entering and exiting performing area.

H. Safety Instructions: Affix to tower in plain view instructions pertaining to safe handling and operation of towers.

I. Tower Hardware:
   1. Hardware necessary to safely transport towers to and from storage and lock into place when in use position.
   2. Frame: Modular, 2-inch OD steel tube.
   3. Counterweight: Steel plates stacked in enclosed tamper-proof weight box.
   4. Levelers: Acme thread with 3-inch-diameter rubber pad.
   5. Finish: Black powder coat.

J. Tower Schedule:
   1. Side Wall: With 2 doors.
      a. 2 Towers: 9’6” wide by 20’ high.
      b. 2 Towers: 9’6” wide by 19’ high.
      c. 2 Towers: 9’6” wide by 18’ high.
   2. Rear Wall: Without doors.
      a. 4 Towers: 9’11 wide by 18’ high.

2.4 OVERHEAD SOUND REFLECTORS

A. Sound reflective panels supported from existing stage rigging, including integral hardware for single-pipe storage without interference with adjacent stage equipment.

B. Suspended from truss batten.

C. Panel Width Dimensions: Match approximate spacing of rigging cable attachment to pipe batten.

D. Storage:
   1. Allow entire row to be rotated to storage position at 1 time by 2 people.
   2. No tools necessary to rotate panels for storage.
   3. Maximum Storage Space: Typically 5 inches to 7 inches on each side of pipe batten centerline, depending on ceiling and light fixture configuration.

E. Each Row of Overhead Panels: Equip with necessary hardware to hang from recommended 1-1/2-inch schedule 40 pipe batten.

F. Hardware:
   1. Permit angular adjustment from horizontal plane to 40 degrees.
   2. Capability of locking panels in a vertical position, so they may be stored on battens in stage loft.

G. Safety Instructions: Provide instructions pertaining to safe handling of overhead panels.

H. Ceiling Schedule:
   1. Row 1-3: 9’1” deep by 9’6” wide, tapered ends.
      a. 7 hanger points with lighting fixtures per plan.

2.5 PANELS

A. Sound-reflecting laminated panels.

B. Panel Thickness: 1-5/8 inches.

C. Exposed Face:
   1. 0.060-inch-thick, Formica high-pressure laminate.
   2. Fire Rated: Class C.

D. Substrate: 1/8-inch tempered hardboard each side of core.

E. Backing:
   1. Natural finish, high-pressure laminate.
   2. Fire Rated: Class C.

F. Core:
   1. 3/8-inch cell, 80-80-15 phenolic-impregnated, cellulose honeycomb.
   2. Thickness: 1.3 inches.

G. Frame:
   1. Exposed Edges of Individual Panels: Protect by extruded aluminum frame/edging with injected molded corners.
   2. Continuous Edge Slot: Allow mechanical fastener attachment to tower structural frame.

H. Adhesive:
   1. High-solid, pressure-cured, moisture-activated, urethane structural adhesive.
   2. Contact-Type Adhesives: Not acceptable.

I. Exterior Surface Shape: Bowed to 6'-0" radius.

J. Weight:
   1. Minimum of 2-1/2 lbs per square foot, excluding frame weight.
   2. Panels of Less Weight: Deemed insufficient to reflect low-frequency sound; not acceptable.

K. Finish:
   1. Panel Face Surface: No exposed fasteners.
   2. Face Finish: Matte.
   3. Panel Edges: Flat black, anodized.
   4. Panel Face Color: Color will be selected from Formica standard colors by Owner's representative.

2.6 LIGHTING

A. Fixtures: ColorSource Par, with Medium Round Diffusers

B. Owner will have a choice of electrical connections from a list available from manufacturer.

C. Connector Strip:
   1. Provide 1 UL-listed connector strip for each row of ceiling panels.
   2. Circuited as indicated on the Drawings.

2.7 STORAGE

A. Towers and Transport Cart: Store in an area no larger than 6’3” wide by 15’6” deep by 21’ high.

PART 3 EXECUTION

3.1 INSTALLATION

A. Three sets of detailed shop drawings and/or instructions shall be furnished by the manufacturer at installation.

B. Installation Supervised by Manufacturer: Manufacturer shall supply 1 factory-trained and certified representative to supervise installation of concert shells.

3.2 TRAINING

A. Provide instruction and training of Owner’s personnel in the operation and maintenance of concert shells.

B. Provide instruction and training by factory-trained and certified representative of manufacturer.

END OF SECTION

SECTION 26 09 16

ELECTRIC CONTROLS AND RELAYS

PART 1: GENERAL

1.01 SECTION INCLUDES

A. Contactors.

B. Time clocks with photoelectric controls.

C. Time clocks for hot water return pump control.

D. Emergency lighting control unit

E. Photocell

1.02 REFERENCES

A. NEMA ICS 6 - Enclosures for Industrial Controls and Systems.

1.03 SUBMITTALS

A. Submit shop drawings under provisions of Section 01 30 00.

PART 2: PRODUCTS

2.01 CONTACTORS

A. Electrically or Mechanically held as indicated on the Drawings.

B. Rated 20 amps per pole at 600 volts.

C. Heavy duty silver contacts.

D. 120 volt control circuit voltage.

E. NEMA 1 enclosure.

F. Manufacturers:
1. Zenith
2. ASCO
3. Cutler-Hammer
4. Square D

2.02 TIME CLOCK - EXTERIOR LIGHTING

A. Digital 4 channel multipurpose time clock.

B. 7 day/32 set points.

C. AM/PM or 24 hour format - user selectable.

D. Daylight saving and leap year compensation.

E. Manual override and battery back-up.

F. Complete with photocell.

G. Manufacturer:
1. Tork #DGLC\with EPC1 photocell.
2. Paragon
3. Intermatic
4. Substitutions: Under provisions of Section 01 30 00

2.03 TIME CLOCKS - HOT WATER RETURN PUMP CONTROL

A. Digital maintained contact, one channel clock.

B. 7 day/32 set points.

C. AM/PM or 24 hour format - user selectable.

D. Daylight saving and leap year compensation.

E. Manual override and battery back-up.

F. Manufacturer:
1. Tork #DGU 100.
2. Paragon
3. Intermatic
4. Substitutions: Under provisions of Section 01 30 00.

2.04 EMERGENCY LIGHTING CONTROL UNIT

A. The Emergency Lighting Control Unit (ELCU) shall provide all required functionality to allow any standard lighting control device to control emergency lighting in conjunction with normal lighting in any area within a building.

B. The emergency lighting control unit shall allow control of emergency lighting fixtures in tandem with normal lighting in an area while ensuring that emergency lighting will turn on immediately to full brightness upon loss of normal power supplying the control device. Emergency lighting operation shall be independent for each controlled area and shall not require a generalized power failure for proper operation.

C. The device shall be self-contained, measure 1.70” x 2.97” x 1.64,” and provide integral one half inch pip nipple mount with snap in locking feature for mounting into a standard junction box KO.

D. The device shall have normally closed dry contacts capable of switching 20 amp emergency ballast loads @ 120-277 VAC, 60 Hz, or 10 amp tungsten loads @ 120 VAC, 60 Hz.

E. The device shall have universal rated voltage inputs provided for normal power sense and normal switched power at 120-277 VAC, 60 Hz.

F. The device shall have an integral momentary test switch. Pressing and holding this switch shall instantly force the unit into emergency mode and turn on emergency lighting. Releasing the test switch shall immediately return the unit to normal operation.

G. The unit shall provide dedicated leads and 24 VDC source for connection to remote test switch, fire alarm system, or other external system capable of providing a normally closed dry contact closure. Breaking contact between the terminals shall force and hold the emergency lighting on until the terminals are again closed. An integral LED indicator shall indicate the unit's current remote activation status.

H. The device shall provide separate LEDs to indicate the presence of normal and emergency power sources. The LEDs shall indicate the unit's current operational mode (normal or emergency).

I. The device's normal power input lead shall be connected to the line side of the control device such that any upstream fault causing a loss of power, including the tripping of the branch circuit breaker, will force the unit into the emergency mode and turn on the emergency lighting.

J. The unit shall automatically switch emergency lighting on and off as normal lighting is switched. When normal power is not available, the unit shall force and hold emergency lighting on regardless of the state of any external control device until normal power is restored.

K. The unit shall utilize zero crossing circuitry to protect relay contacts from the damaging effects of inrush current generated by switching electronic ballast loads.

L. Unit housing shall be UL94 V-O plenum rated and shall be equipped with compression flying leads.

M. To ensure quality and reliability, the unit shall be manufactured by an ISO 9002 certified manufacturing facility and shall have a defect rate of less than 1/3 of 1%.

N. The unit shall be UL and cUL listed and labeled for connection to both normal and emergency lighting power sources.

O. The unit shall have a 5-year warranty.

P. Manufacturer: Wattstopper ELCU-200;

1. Substitutions: Under provisions of Section 01 30 00.

2.05 PHOTOCELL

A. Exterior Photocell

1. 120 volt
2. 2 minute delay
3. Mounting: ½" conduit
4. Switch type SPST
5. Lexan - Impact and Vandal Resistant
6. -40 degrees to 140 degrees Fahrenheit
7. 1800 VA ballast load
8. Manufacturer: Tork-2001 or equal.

PART 3: EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. For the automatic dusk to dawn control of selected exterior lighting fixtures, provide photocontrol where indicated on the Drawings. Wire photocontrol to energize holding coil in relays or energize lighting fixtures, as indicated.

C. Test operation of emergency Lighting control unit.

END OF SECTION

SECTION 27 51 17

PUBLIC ADDRESS SYSTEM

PART 1: GENERAL

1.01 SECTION INCLUDES

A. Expansion of existing Public address system as described herein; to be wired, connected, and left in first class operating condition. Electrical contractor shall provide and be responsible for installation. Electrical contractor shall provide rough-in's and any conduits needed.

B. All panels and peripheral devices shall be the standard product of a single manufacturer and shall display the manufacturer's name on each component.

C. The complete installation shall conform to the applicable sections of NFPA-72, NFPA-70, and National Electrical Code with particular attention to Article 760.

D. The work covered by this section of the specifications shall be coordinated with the related work as specified elsewhere under the project specifications.

1.02 RELATED SECTIONS

A. Section 26 05 19 – Low Voltage Electrical Power Conductors and Cables

B. Section 26 05 34 – Conduits.

C. Section 26 05 37 – Boxes

D. Section 27 10 05 Cabling for Voice and Data

1.03 REFERENCES

A. NFPA 70 - National Electrical Code.

B. NFPA 72 - National Fire Alarm Code.

C. NFPA 101 - Life Safety Code.

1.04 REGULATORY REQUIREMENTS

A. System: UL listed.

B. Conform to requirements of NFPA 101.

1.05 QUALIFICATIONS

A. Manufacturer: Company specializing in wiring access systems with five years documented experience.

B. Installer: certified by manufacturer as contractor.

1.06 SUBMITTALS

A. Submit shop drawings and product data under provisions of Section 01 30 00.

B. Provide all information and materials required for system: system description, sequence of operation, wiring diagrams, voltage drop calculations, battery calculations, data sheets, equipment ratings, layout, dimensions, and finishes.

1.07 PROJECT RECORD DRAWINGS

A. Submit documents under the provisions of Section 01 70 00.

1.08 OPERATION AND MAINTENANCE DATA

A. Submit data under provisions of Section 01 70 00.

B. Include operating instructions, and maintenance and repair procedures.

PART 2: PRODUCTS

2.01 MANUFACTURER/INSTALLER

A. Electrical contractor shall provide cost of all wire, conduit, labor, accessories, including installation, as provided by the District's Public Address Vendor
Audio Architects; 715-723-4900

B. Speakers: Supplied and installed by Audio Architect/Electrical contractor.

C. Amplifiers: Supplied and installed by Audio Architect/Electrical contractor.

D. Paging Modules: Supplied and installed by Audio Architect/Electrical contractor.

E. Cables and Wiring: Supplied and installed by Audio Architect/Electrical contractor.

F. Mounting hardware and Accessories: Supplied and installed by Audio Architect/Electrical contractor.

PART 3: EXECUTION

3.01 INSTALLATION

A. Install system in accordance with manufacturer's instructions.

B. Electrical contractor shall provide and install all equipment as directed by Audio Architects. Electrical contractor must supply and install any needed conduit and boxes. Electrical contractor shall provide power at head end equipment.

3.02 FIELD QUALITY CONTROL

A. Test in accordance with Manufacturers requirements.

3.03 MANUFACTURER'S FIELD SERVICES

A. Provide manufacturer's field services.

B. Qualified sound technician shall install devices as listed, make adjustments, do final connections, program and test system.

END OF SECTION

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SECTION 28 31 00

FIRE DETECTION AND ALARM

PART 1: GENERAL

1.01 SECTION INCLUDES

A. A complete Addressable Fire Alarm System with voice evacuation as described herein and as shown on the Drawings; to be wired, connected, and left in first class operating condition. Include but not limited to sufficient control panels, automatic smoke detectors, duct smoke detectors, heat detectors, manual stations, alarm indicating appliances, and all other necessary material for complete operating systems. Interface new Fire Alarm system with existing high school system to initiation alarm in both buildings.

B. The fire alarm system shall allow for loading and editing special instructions and operating sequences such as cross zoning.as required. The systems shall be capable of on site programming to accommodate system expansion and facilitate changes in operation. All software operations shall be stored in a non-volatile programmable memory within the fire alarm control panel. Loss of primary and secondary power shall not erase the instructions stored in memory.

C. All panels and peripheral devices shall be the standard product of a single manufacturer and shall display the manufacturer's name on each component.

D. The complete installation shall conform to the applicable sections of NFPA-72, NFPA-70, and National Electrical Code with particular attention to Article 760.

E. The work covered by this section of the specifications shall be coordinated with the related work as specified elsewhere under the project specifications.

1.02 RELATED SECTIONS

A. Section 26 05 19 – Low Voltage Electrical Power Conductors and Cables

B. Section 26 05 34 – Conduits.

C. Section 26 05 35 - Surface Raceways.

D. Section 26 05 37 - Boxes

1.03 REFERENCES

A. NFPA 70 - National Electrical Code.

B. NFPA 72 - National Fire Alarm Code.

C. NFPA 101 - Life Safety Code.

1.04 REGULATORY REQUIREMENTS

A. System: UL listed.

B. Conform to requirements of NFPA 101.

1.05 QUALIFICATIONS

A. Manufacturer: Company specializing in smoke detection and fire alarm systems with five years documented experience.

B. Installer: Company specializing in smoke detection and fire alarm systems certified by manufacturer as fire alarm installing contractor.

1.06 SUBMITTALS

A. Submit shop drawings and product data under provisions of Section 01 30 00.

B. Provide all information and materials required for state review of fire alarm system: system description, sequence of operation, wiring diagrams, voltage drop calculations, battery calculations, data sheets, equipment ratings, layout, dimensions, and finishes.

C. Submit documents for state review; and pay all fees required. Include all forms, drawings and documents required as per IBC section 907: Paragraph 907.1.2 Fire alarm Shop Drawings.

D. Submit manufacturer's installation instructions under provisions of Section 01 30 00.

1.07 PROJECT RECORD DRAWINGS

A. Submit documents under the provisions of Section 01 70 00.

1.08 OPERATION AND MAINTENANCE DATA

A. Submit data under provisions of Section 01 70 00.

B. Include operating instructions, and maintenance and repair procedures.

PART 2: PRODUCTS

2.01 MANUFACTURERS

A. Electrical contractor shall provide cost of all wire, conduit, labor, accessories, including installation, as provided by the District's Fire Alarm Supplier/Vendor:

B. Existing Manufacturer -Simplex
Contact Person: Ryan Carriveau
Electronic Systems Sales Representative
Johnson Controls
+1 920 562 1415 cell
Ryan.Carriveau@jci.com

2.02 FIRE ALARM AND SMOKE DETECTION CONTROL PANEL

A. Control Panel: Modular construction with surface wall-mounted enclosure.

B. Power Supply: Provide adequate power and wiring to serve control panel modules, remote detectors, relays, door holders and alarm signaling devices. Include battery-operated emergency power supply with capacity for operating system in standby mode for 24 hours followed by alarm mode for 5 minutes.

C. Detection Circuits: Supervised with alarm and trouble indication.

D. Signal Circuits: Supervised signal module(s), sufficient for signal devices connected to system.

E. Remote Station Signal Transmitter: Electrically supervised, capable of transmitting alarm and trouble signals over telephone lines to remote central station. Provide two telephone lines back to the building main telephone backboard/termination blocks.

F. Relay Module: Intelligent/Addressable control relay. Provide sufficient contacts to provide elevator recall, Shut down of Air handling units, accessory functions specified and as indicated on drawings.

G. Input Modules: Addressable type. Provide for sprinkler system flow and tamper switches, Existing (8) initiation zones, Kitchen hood fire suppression system and as indicated on drawings.

H. Provide relays and control wiring to interface with auditorium, fitness room and Wrestling gym system sound systems. Provide all required interconnecting wiring. Sound systems to mute during fire alarm initiation.

I. Provide TROUBLE ACKNOWLEDGE, DRILL, and ALARM SILENCE switch.

2.03 INITIATING DEVICES

A. Manual Station:
1) Semi-flush mounted, single action addressable manual station with break-glass rod.
2) Gymnasiums: Semi-flush mounted, double action addressable manual station.

B. Smoke Detector: Intelligent/addressable photoelectric type with plug-in base. Detector has internal self-adjustment and self diagnostic capabilities. Two-wire detector with common power supply and signal circuit.

C. Duct Mounted Smoke Detector: Intelligent/addressable photoelectric type with plug-in base, auxiliary SPDT relay contact, remote key-operated NORMAL-RESET-TEST switch, duct sampling tubes extending width of duct, and visual indication of detector actuation, in duct-mounted housing. Detector has internal self-adjustment and self diagnostic capabilities. Two-wire detector with common power supply and signal circuit.

D. Heat Detector: addressable fixed temperature type with plug-in base. Refer to Drawings for fixed temperature setting.

E. Input Modules: Addressable type. Provide for sprinkler system flow and tamper switches, Fire/Smoke dampers and as indicated on drawings.

2.04 SIGNALING DEVICES

A. Alarm Lights: ADA complying strobe lamp and flasher. Provide wire guards when mounted in gymnasiums or similar areas.

B. Alarm Horn: Flush type fire alarm horn. Sound Rating: 87 dB at 10 feet (3 m). Provide ADA complying integral strobe lamp and flasher. Provide 90dB horns for all mechanical rooms. Provide wire guards when mounted in gymnasiums or similar areas.

C. Alarm Horn – Sprinkler System: Weatherproof housing. Sound Rating: 87 dB at 10 feet (3 m). Provide ADA complying integral strobe lamp and flasher with red lettered FIRE on white lens. Horn to annunciate upon activation of sprinkler system.

D. Provide synchronization modules.

2.05 REMOTE ANNUNCIATOR

A. The annunciator shall provide an alphanumeric, 80 Character Liquid Crystal Display (LCD) that provides clear language information as to the point status (alarm, trouble, etc.), type of alarm (smoke detector, pull station, etc.), number of alarms on the system, and a custom location label. The annunciator shall communicate to the control panel over one twisted, shielded pair of wire and operating power shall be 24VDC and be fused at the control panel. Status information of each device may be individually displayed to investigate specific point detail.

2.06 FIRE ALARM WIRE AND CABLE

A. Fire Alarm Power Branch Circuits: Building wire as specified in Section 25 05 19.

B. Initiating and Signal Circuits: Building wire as specified in Section 25 05 19.

2.07 Emergency Voice Evacuation Control Panel

A. DESCRIPTION

1) This section of the specification includes the furnishing, installation, connection and testing of the microprocessor controlled voice evacuation control panel.
2) The voice evacuation panel shall comply with NFPA 72 requirements.
3) The installing company shall employ NICET (minimum Level II Fire Alarm Technology) technicians on site to guide the final check-out and to ensure the systems integrity.

B. SCOPE

1) A microprocessor-controlled voice evacuation control panel shall be installed in accordance with the project specifications and drawings.

C. Voice Evacuation Control Panel

1) The VECP shall be by Simplex and shall contain a microprocessor-based Central Processing Unit (CPU). The CPU shall distribute and control emergency voice messages over the speaker circuits.
2) The system shall provide the capability to interface to distributed voice evacuation control panels from the same manufacturer.

3) Shall have as minimum requirements:Integral 25 Watt, 25 Vrms audio amplifier with optional converter for 70.7-volt systems. The system shall be capable of expansion to 50 watts total via the insertion of an additional 25-watt audio amplifier module into the same cabinet.
   a. Speaker circuit that can be wired both Class A or B.
   b. Integral Digital Message Generator with a memory capacity for up to 60 seconds of messaging. The Digital Message Generator shall be capable of producing five distinct messages (12 seconds each). These messages shall field programmable without the use of additional equipment.
   c. Built in alert tone generators with steady, slow whoop, high/low and chime tone field programmable.
   d. The Voice Control Panel will be capable of detecting and annunciating the following conditions: Loss of Power (AC and DC), System Trouble, Ground Fault, Alarm, Microphone Trouble, Message Generator Trouble, Tone Generator Trouble, and Amplifier Fault.
   e. The Voice Control Panel shall be fully supervised including microphone, amplifier output, message generator, speaker wiring, and tone generation.
   f. Speaker outputs shall be fully power-limited.
   g. Amplifiers will be supplied power independently to eliminate a short on one circuit from affecting other circuits.
   h. The Voice Control Panel will provide full supervision on both active (alarm or music) and standby conditions.

PART 3: EXECUTION

3.01 INSTALLATION

A. Install system in accordance with manufacturer's instructions.

B. Install manual pull stations at 46 inches above the floor. Provide box and raceway extensions at existing locations, if required.

C. Install audible and visual signal devices at 80 inches above the floor to the bottom of the device, unless noted otherwise. Devices maybe mounted at 96” to the top of the devices to accommodate chalkboards, tack-boards, etc.

D. Install all wiring in a metal raceway.

E. Fire alarm visual (strobe) signals shall be synchronized.

F. Provide a smoke detector within 5 feet (horizontal distance) of the fire alarm control panel, remote annunciator and power supplies for visual notification. (alarm lights/strobes)

G. Provide adequate 120 volt branch circuit wiring to each power supply for visual notification devices. Verify locations and quantities of power supplies with fire alarm supplier.

H. Provide class A wiring when installing system in hospitals, nursing homes or assisted care facilities.

I. Fire/Smoke Dampers provided and installed by Division 23. Wiring provided under this section.

J. Provide all required wiring and control relays to shut down air handling units; upon initiation of building fire alarm system. Coordinate installation with division 23.

3.02 FIELD QUALITY CONTROL

A. Test in accordance with NFPA 72 and local fire department requirements.

3.03 MANUFACTURER'S FIELD SERVICES

A. Provide manufacturer's field services.

B. Include services of certified technician to supervise installation, adjustments, final connections, and system testing.

3.04 WORK BY OWNER

A. Contracting with a company for remote monitoring of the fire alarm system.

B. Cross connections between owners' telephone demarcation blocks and incoming telephone service.

3.05 DEMONSTRATION

A. Demonstrate normal and abnormal modes of operation and required response to each.

END OF SECTION

GRADING NOTES

- CONTOURS SHOWN ARE FOR FINISHED SURFACES, ANY ADJUSTMENT TO SUBGRADE IS THE CONTRACTOR'S RESPONSIBILITY.
- ALL DISTURBED AREAS THAT ARE UNPAVED ARE TO BE LANDSCAPED OR HAVE LAWN ESTABLISHED AS INDICATED ON THE EROSION CONTROL OR LANDSCAPE PLAN.
- ALL LANDSCAPED OR LAWN AREAS SHALL HAVE A MINIMUM OF 4" OF TOPSOIL.
- SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. HOWEVER, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF SPOT ELEVATIONS DO NOT APPEAR TO AGREE WITH THE CONTOURS AND SLOPES LABELED. SPOT ELEVATIONS AND SPECIFIC PROFILE INFORMATION SHALL BE USED FOR ESTABLISHING THE ELEVATION OF CURBS, DRIVEWAYS, AND OTHER UTILITIES.
- ALL FINISHED GRADING SHALL PROVIDE FOR A SMOOTH TRANSITION TO UNGRADED AREAS.
- ALL PVC STORM SEWER PIPING SHALL BE MINIMUM SDR 35
- EXISTING TREES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION BY PLACING TEMPORARY FENCING AT THE DRIP LINE OF THE TREE CANOPY. IF IMPROVEMENTS NEED TO BE MADE WITHIN THE DRIP LINE, THE FENCE SHALL BE TEMPORARILY REMOVED AND REPLACED IMMEDIATELY FOLLOWING THE COMPLETION OF THE WORK.

GRADING TO SUBGRADE ELEVATIONS IS PART OF BID PACKAGE #1.

LEGEND
PROPOSED

- 717 — PROPOSED CONTOUR
- 723.52 — SPOT ELEVATION
- SANITARY MANHOLE
- SANITARY CLEANOUT
- STORM INLET
- STORM MANHOLE
- STORM DRAIN NDS TYPE
- FIRE HYDRANT
- WATER VALVE
- LIGHT

A C201 RAMP GRADING
1" = 10'

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
WEB SITE: www.hsrassociates.com

Consultant:

PARAGON ASSOCIATES
Environmental Design & Consulting
CIVIL ENGINEERING · LANDSCAPE ARCHITECTURE · SURVEYING
632 COPELAND AVENUE · LA CROSSE, WI 54603
Tel.608.781.3110 Fax.608.781.3197 Paragon-Assoc.biz

Project Title: SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING
PHASE 1 - BID PACKAGE #2

Project Location: 1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title: GRADING PLAN

HSR Project Number: 18061

Project Date: JULY 2019

Drawn By: C.G.

Key Plan:

Revisions:

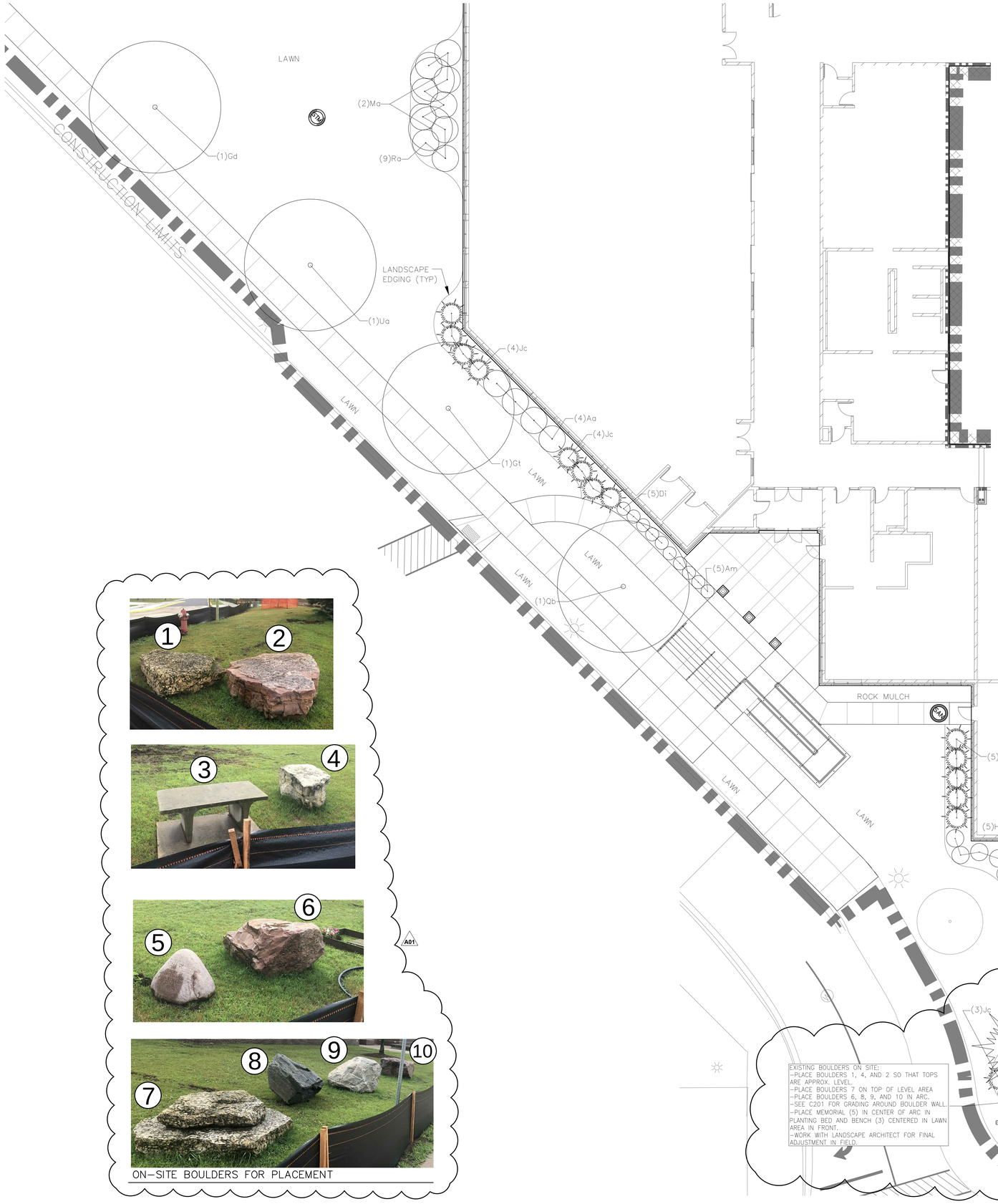
No.	Description	Date
A01	ADDENDUM #1	07/30/19

Graphic Scale: 1" = 20'

Last Update: 07/19/19

C201

PLAN SCALE: 1"=20'



ON-SITE BOULDERS FOR PLACEMENT

A01

PLAN NOTES:

1. VERIFY UTILITY LOCATION BEFORE BEGINNING ANY WORK.

2. PLANTING BEDS SHALL HAVE 6" TOPSOIL AND 4" SHREDDED HARDWOOD BARK MULCH. ROCK MULCH AREAS SHALL HAVE FABRIC WEED BARRIER AND 3" OF #2 RIVER ROCK MULCH. ALL SHADE TREES IN LAWN AREAS SHALL BE MULCHED WITH 4" SHREDDED HARDWOOD BARK MULCH RING. PROVIDE STEEL EDGING AROUND ALL PLANTING BEDS AS PER PLANS. PROVIDE BELGIAN WALL AND WEDGE BLOCK AROUND ALL BIOFILTERS.

3. NEW LAWN AREAS AROUND BUILDINGS SHALL BE RESTORED WITH SOD. NEW AND DISTURBED LAWN AREAS SHALL BE RESTORED WITH SEED AND MULCH. REFER TO EROSION CONTROL PLAN.

4. MODIFICATIONS TO PLANT SPACING MAY BE ADJUSTED IN THE FIELD BY LANDSCAPE CONTRACTOR. LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY PROPOSED CHANGES TO PLANT MATERIALS OR DESIGN.

5. LANDSCAPE CONTRACTOR SHALL VISIT SITE, INSPECT EXISTING CONDITIONS AND REVIEW PROPOSED PLANTING AND RELATED WORK.

6. THE LANDSCAPE ARCHITECT'S ESTIMATED QUANTITIES ARE SHOWN IN THE MATERIAL LIST-SCHEDULE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON THE PLAN AND SHALL RELY ON THE SCHEDULED QUANTITIES AT THEIR OWN RISK. THE CONTRACTOR SHALL INCLUDE IN THE BID ALL PLANTINGS SHOWN ON THE DRAWINGS, WHETHER INCLUDED IN THE SCHEDULES OR NOT.

PLANT MATERIAL LIST-SCHEDULE

TREES

KEY	BOTANICAL NAME COMMON NAME	SIZE	QUANTITY
Gt	Gleditsia triacanthos var. inermis 'Harve' Northern Acclaim Honeylocust	2 1/2" cal	1
Gd	Gymnocladus dioica Kentucky Coffeetree	2 1/2" cal	1
Ma	Malus 'Adirondack' Adirondack Crabapple	2" cal	2
Pf	Pinus flexilis 'Vanderwolf's Pyramid' Vanderwolf's Limber Pine	6' B&B	3
Qb	Quercus bicolor Swamp White Oak	2 1/2" cal	1
Ua	Ulmus americana 'Princeton' Princeton American Elm	2 1/2" cal	1

PLANT MATERIAL LIST-SCHEDULE

SHRUBS

KEY	BOTANICAL NAME COMMON NAME	SIZE	QUANTITY
Aa	Amelanchier alnifolia 'Regent' Regent Saskatoon Serviceberry	5 gal	4
Am	Aronia melanocarpa 'Autumn Magic' 'Autumn Magic' Black Chokeberry	5 gal	19
Di	Diervilla lonicera Dwarf Bush Honeysuckle	3 gal	5
Hp	Hydrangea paniculata 'Little Lime' Little Lime Hydrangea	5 gal	5
Jc	Juniperus chinensis sargentii 'Viridis' Green Sargent Juniper	5 gal	21 A01
Ra	Rhus aromatica 'Gro-Low' Summerwine Ninebark	3 gal	9
Vd	Viburnum dentatum 'Christom' Blue Muffin Arrowwood Viburnum	5 gal	2
Vi	Viburnum dentatum 'Little Joe' Little Joe Arrowwood Viburnum	5 gal	1
Tm	Taxus x media 'Tauntoni' Taunton Spreading Yew	5 gal	5

PLANT MATERIAL LIST-SCHEDULE

PERENNIALS/GRASSES/GROUND COVERS

KEY	BOTANICAL NAME COMMON NAME	SIZE	QUANTITY
Pv	Panicum virgatum 'Heavy Metal' Heavy Metal Switchgrass	1 gal	6

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

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FAX: 608.782.5844
WEB SITE: www.hsrassociates.com

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SCHOOL DISTRICT OF HOLMEN
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PHASE 1 - BID PACKAGE #2

Project Location:
1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title:
LANDSCAPE PLAN

HSR Project Number:
18061

Project Date:
JULY 2019

Drawn By:
C.G.

Key Plan:

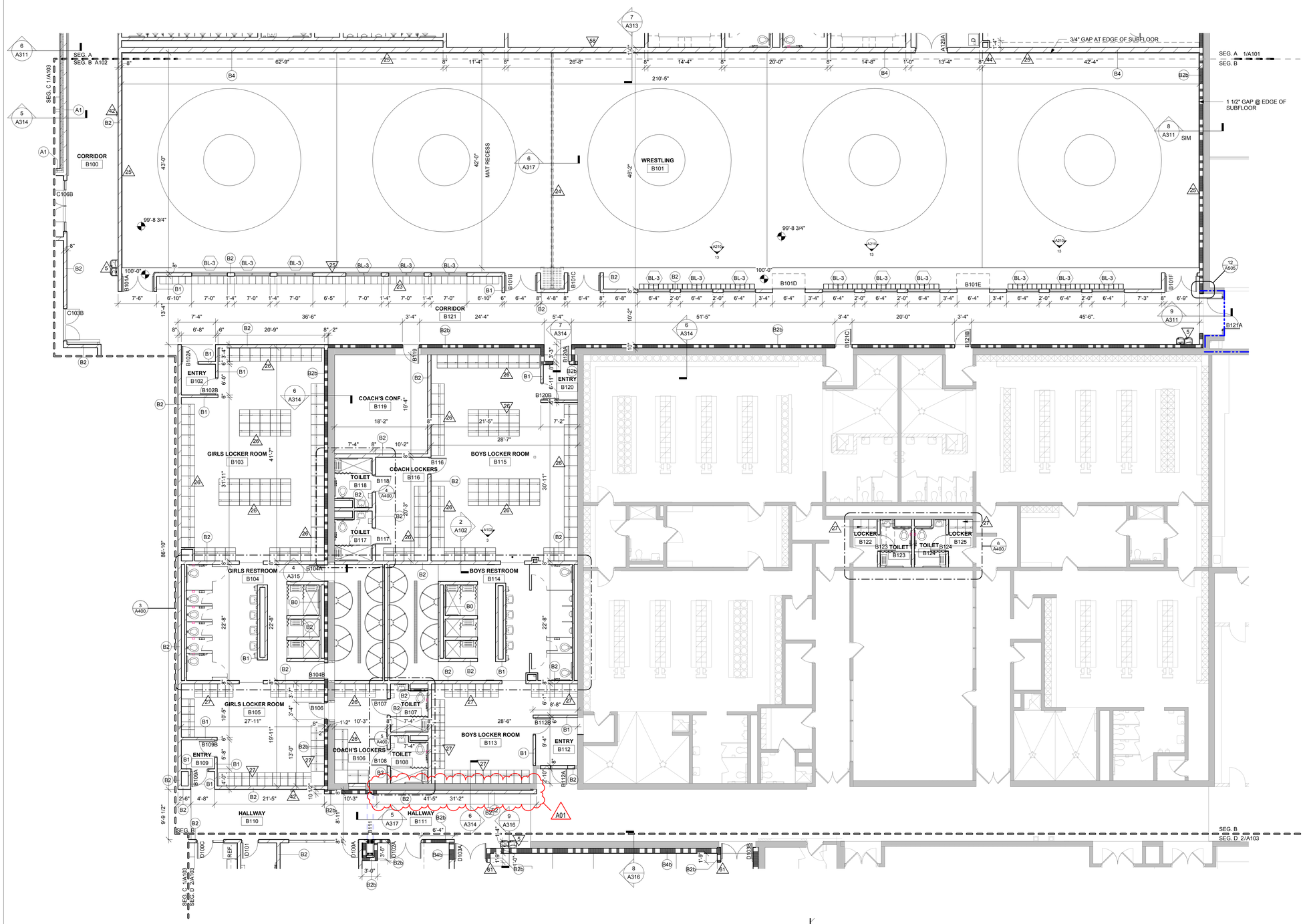
Revisions:

No.	Description	Date
A01	ADDENDUM #1	07/30/19

Graphic Scale:
1" = 10'

Last Update:
07/19/19

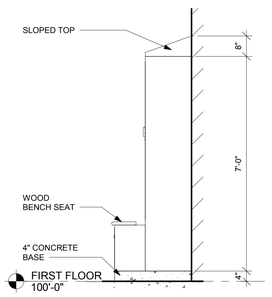
L103



1 FIRST FLOOR - SEGMENT B

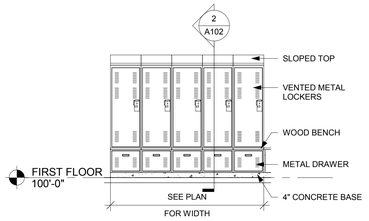
1/8" = 1'-0"

PROJECT NORTH | TRUE NORTH



2 LOCKER SECTION

1/2" = 1'-0"



3 LOCKER ELEVATION - TYP.

1/4" = 1'-0"

GENERAL NOTES:

A	SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYOUTS.
B	LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
C	VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC. OPENINGS . GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.
D	PAINT ALL EXPOSED STEEL LINTELS.
E	SEE STRUCTURAL FOR SLAB CONTROL JOINTS.
F	SEE A506 FOR WALL CONTROL JOINT DETAILS. SEE PLANS AND ELEVATIONS FOR CJ LOCATIONS. BCJ = BRICK CONTROL JOINTS
G	REFER TO OVERALL PLANS FOR FIRE RATING LOCATIONS AND ACCESSIBILITY ROUTES.
H	EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE. SEE A601 FOR TOP OF WALL DETAILS.
J	UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED A MIN. 1/16" - 12" TO FLOOR DRAINS - TO "CENTER", IF NO FLOOR DRAINS.
K	SEE A503 FOR TYPICAL HEAD FLASHING AND THROUGH-WALL FLASHING ISOMETRIC DETAILS.
L	GEN. CONTRACTOR TO PROVIDE CONC. EQUIP. PADS/CURBS AS REQUIRED FOR MECH/ELECTRICAL EQUIP. - VERIFY SIZE/PROFILE/LOCATION WITH MECH/ELECTRICAL.
M	RF- 1 1/2" RECESSED FLOOR IN SHOWERS - VERIFY W/ STRUCTURAL FD- FLOOR DRAIN TD- TRENCH DRAIN COORDINATE WITH PLUMBING

LEGEND:

- SYMBOL INDICATES WALL TYPE - SEE SHEET A600 & A601 FOR WALL TYPE DETAILS.
- SYMBOL INDICATES WINDOW TYPE. SEE SHEET A603 FOR WINDOW FRAME ELEVATIONS.
- SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- n / A-310 — WALL SECTION
- n / A-300 — n / A-300 — BUILDING SECTION
- 1 HOUR WALL
- 2 HOUR BARRIER

KEY NOTES PLAN

1	LADDER TO SPOTLIGHT PLATFORMS
2	PLAM CASEWORK - SEE ELEVATIONS ON A210 & A211
3	WASHER & DRYER - NIC - OWNER FURNISHED AND INSTALLED
4	BAND INSTRUMENT STORAGE
5	ELECTRIC WATER COOLERS WITH BOTTLE FILLER - SEE PLBG.
6	BOLLARDS
7	PLAM SHELF AND CLOTHES ROD - SEE DETAIL 16A211
8	MIRROR W/ METAL FRAME - 6-0"W x 4'-6"H - BOTTOM @ 36" A.F.F.
9	DOUBLE CLOTHES RODS AND SHELF
10	8'-0"W x 4'-0"H WHITE BOARD W/ MUSIC STAFF
11	AUDITORIUM SEATING - FIRST ROW FROM THE STAGE TO BE REMOVEABLE - SEE SPECIFICATION
12	SOUND CONTROL STATION - SEE ELECTRICAL
13	STEEL LADDER W/ OSHA CAGE TO CATWALK - SEE SECTION 3A313 - MISC METAL - PAINT
14	8" CONCRETE WALL - PROVIDE CEMENTITIOUS COATING AT ALL PAINTED SURFACES. SEE ID SHEETS FOR OTHER WALL FINISHES REQUIRED - PROVIDE WOOD CAP AT TOP OF WALL - SEE DETAIL 4A310
16	2'-0"Wx12'-8"H CMU OPENING FOR LIGHT BAR RAIL SYSTEM. BOTTOM OF OPENING AT 104'-0". 1/4"x2" STEEL FRAME EXPANSION BOLT TO CMU AT 32" O.C. WITH WELDED 3/4" DIA. RUNGS AT 16" O.C. MISC METAL - PAINT SEE 17A505
17	ELECTRIC OPERATED PROJECTION SCREEN MOUNTED ABOVE PROSCENIUM OPENING - SEE AV SHEETS
18	STEEL CATWALK ABOVE - SEE STRUCTURAL AND DETAILS/ SECTIONS (PAINT-BLACK) (FLOOR ELEVATION 24'-6" ABOVE FIRST FLOOR ELEVATION)
19	LOADING BRIDGE ABOVE - FLOOR @ 31'-1/2" A.F.F. SEE STRUCTURAL AND WALL SECTION 1A313 FOR DETAIL REFERENCES
20	SEE STAGE EQUIPMENT DRAWINGS FOR LAYOUT OF LINE SETS
21	STAINLESS STEEL PIPE HANDRAIL WITH WALL BRACKETS - TOP @ 2'-10" A.F.F. EXTEND BEYOND END OF RAMP 12"
22	SEE ELEVATION AND SECTIONS FOR PROJECTOR WINDOW INFORMATION - SEE SECTION 3A310
23	15" W x 18"D 1/2 HIGH DOUBLE STACKED SLOPED TOP METAL LOCKERS ON A 4" HIGH CONC. CURB
24	PAIRED PANEL FOLDING PARTITION WALL
25	6'-0" HIGH WALL MATS - CONTINUOUS AROUND PERIMETER OF FLOOR MATS
26	24"W x 18"D VENTED METAL LOCKERS 84" HIGH W/ SLOPED TOP AND BUILT IN BENCH W/ WOOD SEAT
27	18"W x 18"D VENTED METAL LOCKERS 84" HIGH W/ SLOPED TOP AND BUILT IN BENCH W/ WOOD SEAT
28	MAT HOIST - SEE SPEC AND STRUCTURAL
29	FRONT FOLDING BASKETBALL HOOPS - SEE SPEC
30	RECESSED PIT FOR GYMNASTICS W/ A TRAMPOLINE @ 4'-0" BELOW FINISHED FLOOR. TRAMPOLINE SUPPLIED BY OWNER
31	6" SOLID CMU CAP AT TOP OF WALL
32	ATHLETIC STORAGE COMPARTMENTS - NIC
33	VOLLEYBALL POLE POCKETS
34	HALF HIGH 6" CMU WALLS BETWEEN WELDING BOOTHS. 6" SOLID CMU CAP @ TOP OF WALL
35	8'-0"W x 4'-0"H WHITE MARKER BOARD BOTTOM AT 3'-0" A.F.F
36	MANUAL PULL DOWN PROJECTOR SCREEN - NIC
37	DEPRESSED SLAB FOR WALK-IN COOLER/FREEZER - SEE STRUCTURAL
38	U-SHAPED CURTAIN TRACK - TO CREATE VIDEO BAYS
39	INSTALL RELOCATED STOVE/ HOOD AND REFRIGERATOR
40	SEE ID SHEETS FOR LANE PATTERNS
41	FIRE EXTINGUISHER - MOUNTED ON BRACKET - SEE SEPC. - (FE)
42	SEMI RECESSED FIRE EXTINGUISHER CABINET - SEE SPEC. - (FEC)
43	NEW TRENCH DRAIN. SEE PLUMBING.
44	ROOF DRAIN LEADER. SEE PLUMBING FOR PIPE SIZE.
45	4" HOUSEKEEPING PAD.
46	AMBER WELDING CURTAIN AND ROD - MOUNTED BETWEEN WALLS
47	RECESSED ANCHOR RING @ 24" O.C. - SEE SPEC
48	WALL MOUNTED D RING ANCHOR @ 24" O.C. - SEE SPEC.
49	TENNIS POLE POCKETS
50	CONCRETE STOOP. SEE STRUCTURAL.
51	FOUNDRY RELOCATED FROM EXISTING METALS LAB - COORDINATE HOOD WITH MECHANICAL
52	TRAFFIC COATING W/ 6" INTEGRAL BASE
53	TRANSFORMER PAD.
54	OPEN FACE DOWNSPOUT CONNECTED TO STORM- SEE CIVIL.
55	MOTORIZED PROJECTION SCREEN - SEE AUDIO VISUAL FOR SCREEN SIZE
56	SUBWOOFER CAVITY. 4'-0"W x 4'-0"D x 3'-0"H. ALIGN WITH AISLES. COORDINATE LOCATIONS WITH AV DRAWINGS.
57	STEEL GUARDRAIL. SEE A319.
58	3/4" PLYWOOD- COORDINATE SIZE AND LOCATION WITH ELECTRICAL.
59	LINE OF WALL BELOW.
60	PROVIDE SAFETY CHAIN WITH SNAP CLOSURE BETWEEN STEEL PIPE RAIL POSTS @ 21" AND 42" ABOVE WALKWAY.
61	CORNER WALL PADS-6' HIGH
62	AUTO OPERATORS
63	INSTALL SALVAGED ICE MAKER AND THERAPY TUB

ARCHITECTURE
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HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING
BID PACKAGE #2

Project Location: 1001 McHUGH RD
HOLMEN, WI 54636

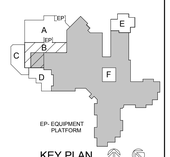
Sheet Title: FLOOR PLAN - SEGMENT B

HSR Project Number: 18061

Project Date: JULY 2019

Drawn By: M.MALAND

Key Plan:



KEY PLAN

PROJECT NORTH | TRUE NORTH

Revisions:

No.	Description	Date
A01	Addendum 1	7/25/19

Graphic Scale: VARIES

Last Update: 7/25/2019 2:34:34 PM

A102

KEY NOTES PLAN.

1	LADDER TO SPOTLIGHT PLATFORMS
2	PLAM CASEWORK - SEE ELEVATIONS ON A210 & A211
3	WASHER & DRYER - NIC - OWNER FURNISHED AND INSTALLED
4	BAND INSTRUMENT STORAGE
5	ELECTRIC WATER COOLERS WITH BOTTLE FILLER - SEE PLBG.
6	BOLLARDS
7	PLAM SHELF AND CLOTHES ROD - SEE DETAIL 16A211
8	MIRROR W/ METAL FRAME - 6-0"W x 4'-6"H - BOTTOM @ 36" A.F.F.
9	DOUBLE CLOTHES RODS AND SHELF
10	8'-0"W x 4'-0"H WHITE BOARD W/ MUSIC STAFF
11	AUDITORIUM SEATING - FIRST ROW FROM THE STAGE TO BE REMOVEABLE - SEE SPECIFICATION
12	SOUND CONTROL STATION - SEE ELECTRICAL
13	STEEL LADDER W/ OSHA CAGE TO CATWALK - SEE SECTION 3A313 - MISC METAL - PAINT
14	8" CONCRETE WALL - PROVIDE CEMENTITIOUS COATING AT ALL PAINTED SURFACES. SEE ID SHEETS FOR OTHER WALL FINISHES REQUIRED - PROVIDE WOOD CAP AT TOP OF WALL - SEE DETAIL 4A310
16	2'-0"Wx12'-8"H CMU OPENING FOR LIGHT BAR RAIL SYSTEM. BOTTOM OF OPENING AT 104'-0". 1/4"x2" STEEL FRAME EXPANSION BOLT TO CMU AT 32" O.C. WITH WELDED 3/4" DIA. RUNGS AT 16" O.C. MISC METAL - PAINT SEE 17A505.
17	ELECTRIC OPERATED PROJECTION SCREEN MOUNTED ABOVE PROSCENIUM OPENING - SEE AV SHEETS
18	STEEL CATWALK ABOVE - SEE STRUCTURAL AND DETAILS/ SECTIONS (PAINT-BLACK) (FLOOR ELEVATION 24'-6" ABOVE FIRST FLOOR ELEVATION)
19	LOADING BRIDGE ABOVE - FLOOR @ 31'-1/2" A.F.F. SEE STRUCTURAL AND WALL SECTION 1A313 FOR DETAIL REFERENCES
20	SEE STAGE EQUIPMENT DRAWINGS FOR LAYOUT OF LINE SETS
21	STAINLESS STEEL PIPE HANDRAIL WITH WALL BRACKETS - TOP @ 2'-10" A.F.F. EXTEND BEYOND END OF RAMP 12"
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26	24"W x 18"D VENTED METAL LOCKERS 84" HIGH W/ SLOPED TOP AND BUILT IN BENCH W/ WOOD SEAT

KEY NOTES PLAN.

27	18"W x 18"D VENTED METAL LOCKERS 84" HIGH W/ SLOPED TOP AND BUILT IN BENCH W/ WOOD SEAT
28	MAT HOIST - SEE SPEC AND STRUCTURAL
29	FRONT FOLDING BASKETBALL HOOPS - SEE SPEC
30	RECESSED PIT FOR GYMNASTICS W/ A TRAMPOLINE @ 4'-0" BELOW FINISHED FLOOR. TRAMPOLINE SUPPLIED BY OWNER
31	6" SOLID CMU CAP AT TOP OF WALL
32	ATHLETIC STORAGE COMPARTMENTS - NIC
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36	MANUAL FULL DOWN PROJECTOR SCREEN - NIC
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38	U-SHAPED CURTAIN TRACK - TO CREATE VIDEO BAYS
39	INSTALL RELOCATED STOVE/ HOOD AND REFRIGERATOR
40	SEE ID SHEETS FOR LANE PATTERNS
41	FIRE EXTINGUISHER - MOUNTED ON BRACKET - SEE SEPC. - (FE)
42	SEMI RECESSED FIRE EXTINGUISHER CABINET - SEE SPEC. - (FEC)
43	NEW TRENCH DRAIN. SEE PLUMBING.
44	ROOF DRAIN LEADER. SEE PLUMBING FOR PIPE SIZE.
45	4" HOUSEKEEPING PAD.
46	AMBER WELDING CURTAIN AND ROD - MOUNTED BETWEEN WALLS
47	RECESSED ANCHOR RING @ 24" O.C. - SEE SPEC
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49	TENNIS POLE POCKETS
50	CONCRETE STOOP- SEE STRUCTURAL.
51	FOUNDRY RELOCATED FROM EXISTING METALS LAB - COORDINATE HOOD WITH MECHANICAL
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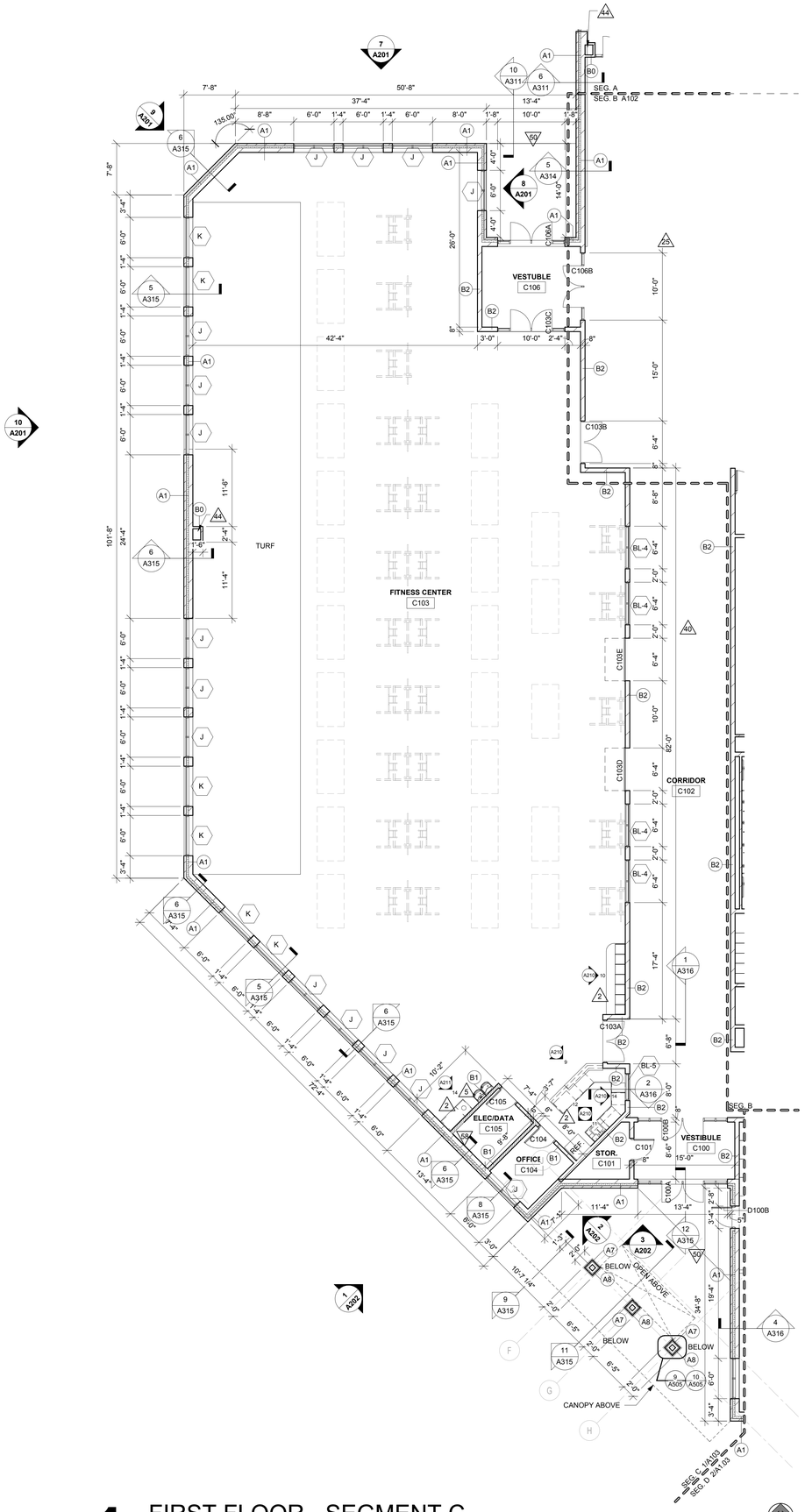
55	MOTORIZED PROJECTION SCREEN - SEE AUDIO VISUAL FOR SCREEN SIZE
56	SUBWOOFER CAVITY. 4'-0"W x 4'-0"D x 3'-0"H. ALIGN WITH AISLES. COORDINATE LOCATIONS WITH AV DRAWINGS.
57	STEEL GUARDRAIL. SEE A319.
58	3/4" PLYWOOD- COORDINATE SIZE AND LOCATION WITH ELECTRICAL.
59	LINE OF WALL BELOW.
60	PROVIDE SAFETY CHAIN WITH SNAP CLOSURE BETWEEN STEEL PIPE RAIL POSTS @ 21" AND 42" ABOVE WALKWAY.
61	CORNER WALL PADS-6' HIGH
62	AUTO OPERATORS
63	INSTALL SALVAGED ICE MAKER AND THERAPY TUB

LEGEND:

- A — SYMBOL INDICATES WALL TYPE - SEE SHEET A600 & A601 FOR WALL TYPE DETAILS.
- A — SYMBOL INDICATES WINDOW TYPE. SEE SHEET A603 FOR WINDOW FRAME ELEVATIONS.
- SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- n / A-310 — WALL SECTION
- n / A-300 — n / A-300 — BUILDING SECTION
- 1 HOUR WALL
- 2 HOUR BARRIER

GENERAL NOTES:

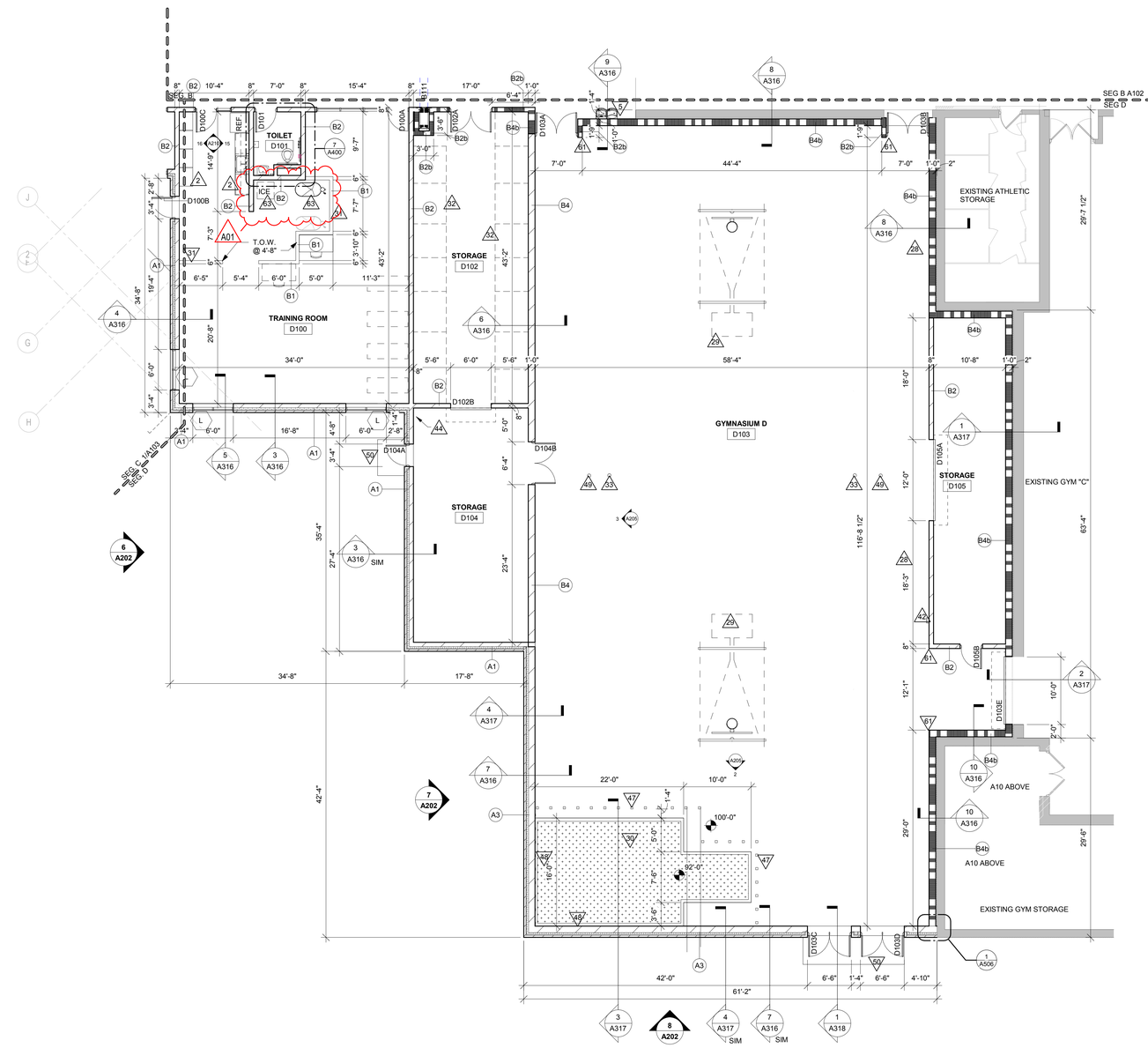
A	SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYOUTS.
B	LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
C	VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC. OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.
D	PAINT ALL EXPOSED STEEL LINTELS.
E	SEE STRUCTURAL FOR SLAB CONTROL JOINTS.
F	SEE A506 FOR WALL CONTROL JOINT DETAILS. SEE PLANS AND ELEVATIONS FOR CJ LOCATIONS. BEJ = BRICK CONTROL JOINTS
G	REFER TO OVERALL PLANS FOR FIRE RATING LOCATIONS AND ACCESSIBILITY ROUTES.
H	EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE. SEE A601 FOR TOP OF WALL DETAILS.
J	UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED A MIN. 1/16" : 12" TO FLOOR DRAINS - TO "CENTER", IF NO FLOOR DRAINS.
K	SEE A503 FOR TYPICAL HEAD FLASHING AND THROUGH-WALL FLASHING ISOMETRIC DETAILS.
L	GEN. CONTRACTOR TO PROVIDE CONC. EQUIP. PADS/CURBS AS REQUIRED FOR MECH/ELECTRICAL EQUIP. - VERIFY SIZE/PROFILE/LOCATION WITH MECH/ELECTRICAL.
M	RF- 1 1/2" RECESSED FLOOR IN SHOWERS - VERIFY W/ STRUCTURAL FD- FLOOR DRAIN TD- TRENCH DRAIN COORDINATE WITH PLUMBING



1 FIRST FLOOR - SEGMENT C

1/8" = 1'-0"

PROJECT NORTH TRUE NORTH



2 FIRST FLOOR - SEGMENT D

1/8" = 1'-0"

PROJECT NORTH TRUE NORTH

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HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **SCHOOL DISTRICT OF HOLMEN**
HIGH SCHOOL ADDITION & REMODELING
BID PACKAGE #2

Project Location: 1001 McHUGH RD
HOLMEN, WI 54636

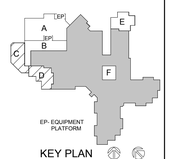
Sheet Title: **FLOOR PLAN - SEGMENT C & D**

HSR Project Number: **18061**

Project Date: **JULY 2019**

Drawn By: **M.MALAND**

Key Plan:



KEY PLAN PROJECT NORTH TRUE NORTH

Revisions:

No.	Description	Date
A01	Addendum 1	7/25/19

Graphic Scale: **VARIES**

Last Update: **7/25/2019 2:34:37 PM**

A103

GENERAL NOTES:

A	REFER TO MECHANICAL AND PLUMBING CEILING ACCESS PANEL LOCATIONS & SIZES.
B	SEE MECHANICAL FOR CEILING GRILLE INFORMATION
C	SEE ELECTRICAL FOR LIGHTING TYPES
D	ALL INTERIOR PARTITIONS TO EXTEND TO BOTTOM OF DECK UNLESS OTHERWISE NOTED. CLOSE DECK FLUTES AT TOP OF WALL WITH NEOPRENE FILLER OR FIRESTOPPING SYSTEM. IN GYP/STUD PARTITIONS SEE SPECIFICATION FOR LEVEL OF FINISH ABOVE FINISHED CEILING.
E	ALL REMAINING ANNULAR SPACE AROUND ITEMS PENETRATING WALLS SHALL BE NEATLY SEALED. PENETRATIONS OF FIRE RATED WALLS SHALL BE FIRESTOPPED WITH THE SAME AS THE WALL.
F	WHERE NO CEILING/EXPOSED STRUCTURE UNLESS NOTED OTHERWISE, CONTRACTOR SHALL KEEP ALL MEP ABOVE OR EVEN WITH THE LEVEL OF THE LIGHTS. MEP SHALL RUN IN NEAT ORDERLY APPEARANCE GENERALLY PARALLEL OR PERPENDICULAR TO FINISHED STRUCTURE. WALLS IN THESE ROOMS TO RUN TO DECK AND ALL STRUCTURE / MEP COMPONENTS ARE TO BE PAINTED.
G	ALL EXTERIOR EXPOSED STEEL LINTELS/HEADERS SHALL BE GALVANIZED, PRIMED AND PAINTED UNLESS NOTED OTHERWISE.
H	REFER TO INTERIOR DESIGN SHEETS FOR OTHER FINISHES
I	HANGERS AND SUPPORTS: MECHANICAL, PLUMBING, ELECTRICAL AND OTHER CABLING CONTRACTORS SHALL NOT HANG OR SUPPORT THE WORK FROM THE ROOF DECK IN ANY FASHION. CONDUIT RUNS SHALL NOT BE LAID ON ROOF DECK NOR LAID ON THE STRUCTURAL SUPPORT THAT SUPPORTS THE ROOF DECK. NO FASTENERS SHALL PENETRATE ROOF DECK BY ANY TRADE OTHER THAN THE ROOFING CONTRACTOR FOR THE NEW ROOF SYSTEM.
J	CONFIRM EXACT LOCATION OF OVERHEAD PROJECTORS AND OTHER CEILING MOUNTED EQUIPMENT WITH OWNER / MANUFACTURER PRIOR TO INSTALLATION. SEE EQUIPMENT PLANS FOR ADDITIONAL EQUIPMENT.
K	CEILING TYPES INSTALLED AS NOTED ON PLANS. SEE SPECIFICATIONS FOR ADDITIONAL SYSTEM INFORMATION. **ACT-1**=SQUARE EDGE, **ACT-2**=TEGULAR EDGE, **ACT-3**=VINYL FACED GYP **ACT-4**= 4x4 TEGULAR EDGE **ACT-5**= HIGH NRC 2x2 TEGULAR EDGE **LMC-1** = LINEAR METAL CEILING SYSTEM

LEGEND:

- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- SPEAKER - SEE ELECTRICAL
- SUPPLY - SEE MECHANICAL
- RETURN - SEE MECHANICAL
- EXHAUST - SEE MECHANICAL
- DESTRAT FAN - SEE MECHANICAL
- SHOWER CURTAIN AND ROD - SEE SPECIFICATIONS

KEY NOTES RCP

1	EXPOSED STRUCTURE - PAINT
2	GYP. BOARD SOFFIT - PAINT
3	METAL SOFFIT PANELS - WOOD GRAIN-TYPE 2 SECTION 076200
4	GYP. BD ENCLOSURE AROUND PROSCENIUM OPENING - SEE SECTION 6A310 FOR DETAILS
5	EXTERIOR GYP BD WITH ACRYLIC COATING
6	PAINT EXPOSED STEEL LINTELS
7	SKYLIGHTS
8	ACT CLOUDS W/ 6" TRIM PIECE
9	FOLDING PANEL PARTITION WALL
10	DOUBLE MAT HOIST - SEE STRUCTURAL
11	FLUSH METAL SOFFIT PANELS-TYPE 1 SECTION 076200
12	RDOF FEATURE - SEE SECTION 9A315 FOR DETAILS
13	MODIFIY EXISTING CEILING TILE AND GRID FOR NEW CONSTRUCTION
14	FORWARD FOLDING BASKETBALL HOOPS - SEE SPECIFICATIONS
15	U-SHAPED CURTAIN TRACK AND CURTAIN TO DIVIDE VIDEO BAYS
16	STEEL CATWALK ABOVE - SEE STRUCTURAL AND DETAILS/ SECTIONS (PAINT - BLACK) - FLOOR ELEVATION 24'-6" ABOVE FIRST FLOOR
17	LOADING BRIDGE ABOVE - FLOOR @ 31'-4" A.F.F SEE STRUCTURAL AND WALL SECTION 1A313 FOR DETAIL REFERENCES
18	ACOUSTIC CLOUDS - GYP. BOARD ON MTL. STUD FRAMING (AND CONTROL JOINTS) - PAINT
19	PENDANT LIGHT - SEE ELECTRICAL
20	PAINT EXPOSED MEP SYSTEMS
21	4x4 CONVEX CEILING DIFFUSER(LAYIN)
22	SMOKE EVACUATION HATCH ABOVE
23	EXPOSED STRUCTURE
24	MOTORIZED PROJECTOR SCREEN - CENTERED OVER PROSCENIUM - SEE AV SHEETS
25	MOTORIZED PROJECTOR SCREEN - RECESSED IN CEILING - SEE AV SHEETS
26	ACOUSTIC CLOUD - WRAPPED W FABRIC ON MTL STUD. FRAMING

SHADED AREA INDICATES CURVED SOFFIT- SEE SHEET A310.

SEE AUDITORIUM CEILING PLAN FOR CLOUD LAYOUT

SEE AUDITORIUM CEILING PLAN FOR CLOUD LAYOUT

1 REFLECTED CEILING PLAN - SEGMENT A

1/8" = 1'-0"

PROJECT NORTH / TRUE NORTH

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING
BID PACKAGE #2

Project Location: 1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title: REFLECTED CEILING PLAN - SEGMENT A

HSR Project Number: 18061

Project Date: JULY 2019

Drawn By: M.MALAND

Key Plan:

KEY PLAN — PROJECT NORTH / TRUE NORTH

Revisions:

No.	Description	Date
A01	Addendum 1	7/25/19

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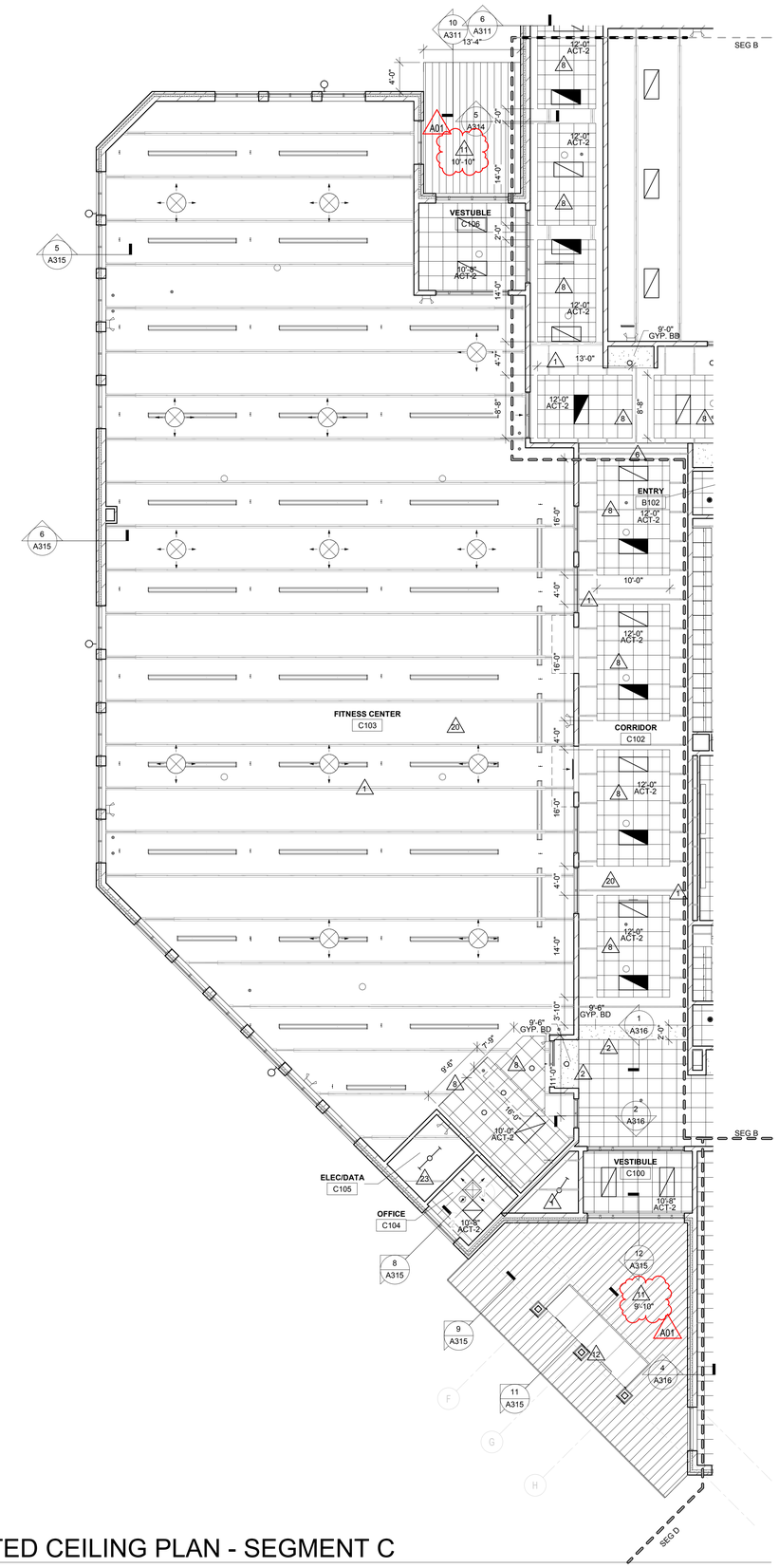
A121



1 REFLECTED CEILING PLAN - SEGMENT C

1/8" = 1'-0"

PROJECT NORTH

TRUE NORTH

GENERAL NOTES:

A	REFER TO MECHANICAL AND PLUMBING CEILING ACCESS PANEL LOCATIONS & SIZES.
B	SEE MECHANICAL FOR CEILING GRILLE INFORMATION
C	SEE ELECTRICAL FOR LIGHTING TYPES
D	ALL INTERIOR PARTITIONS TO EXTEND TO BOTTOM OF DECK UNLESS OTHERWISE NOTED. CLOSE DECK FLUTES AT TOP OF WALL WITH NEOPRENE FILLER OR FIRESTOPPING SYSTEM. IN GYPSTUD PARTITIONS SEE SPECIFICATION FOR LEVEL OF FINISH ABOVE FINISHED CEILING.
E	ALL REMAINING ANNULAR SPACE AROUND ITEMS PENETRATING WALLS SHALL BE NEATLY SEALED. PENETRATIONS OF FIRE RATED WALLS SHALL BE FIRESTOPPED WITH THE SAME AS THE WALL.
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H	REFER TO INTERIOR DESIGN SHEETS FOR OTHER FINISHES
I	HANGERS AND SUPPORTS: MECHANICAL, PLUMBING, ELECTRICAL AND OTHER CABLING CONTRACTORS SHALL NOT HANG OR SUPPORT THE WORK FROM THE ROOF DECK IN ANY FASHION. CONDUIT RUNS SHALL NOT BE LAID ON ROOF DECK NOR LAID ON THE STRUCTURAL SUPPORT THAT SUPPORTS THE ROOF DECK. NO FASTENERS SHALL PENETRATE ROOF DECK BY ANY TRADE OTHER THAN THE ROOFING CONTRACTOR FOR THE NEW ROOF SYSTEM.
J	CONFIRM EXACT LOCATION OF OVERHEAD PROJECTORS AND OTHER CEILING MOUNTED EQUIPMENT WITH OWNER / MANUFACTURER PRIOR TO INSTALLATION. SEE EQUIPMENT PLANS FOR ADDITIONAL EQUIPMENT.
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LEGEND:

- LIGHT FIXTURE - SEE ELECTRICAL
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- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- SPEAKER - SEE ELECTRICAL
- SUPPLY - SEE MECHANICAL
- RETURN - SEE MECHANICAL
- EXHAUST - SEE MECHANICAL
- DESTRAT FAN - SEE MECHANICAL
- SHOWER CURTAIN AND ROD - SEE SPECIFICATIONS

KEY NOTES RCP

1	EXPOSED STRUCTURE - PAINT
2	GYP. BOARD SOFFIT - PAINT
3	METAL SOFFIT PANELS - WOOD GRAIN-TYPE 2 SECTION 076200
4	GYP. BD ENCLOSURE AROUND PROSCENIUM OPENING - SEE SECTION 6A310 FOR DETAILS
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6	PAINT EXPOSED STEEL LINTELS
7	SKYLIGHTS
8	ACT CLOUDS W/ 6" TRIM PIECE
9	FOLDING PANEL PARTITION WALL
10	DOUBLE MAT HOIST - SEE STRUCTURAL
11	FLUSH METAL SOFFIT PANELS-TYPE 1 SECTION 076200
12	ROOF FEATURE - SEE SECTION 9A315 FOR DETAILS
13	MODIFIY EXISTING CEILING TILE AND GRID FOR NEW CONSTRUCTION
14	FORWARD FOLDING BASKETBALL HOOPS - SEE SPECIFICATIONS
15	U-SHAPED CURTAIN TRACK AND CURTAIN TO DIVIDE VIDEO BAYS
16	STEEL CATWALK ABOVE - SEE STRUCTURAL AND DETAILS/ SECTIONS (PAINT - BLACK) - FLOOR ELEVATION 24'-6" ABOVE FIRST FLOOR
17	LOADING BRIDGE ABOVE - FLOOR @ 31'-4" A.F.F SEE STRUCTURAL AND WALL SECTION 1A313 FOR DETAIL REFERENCES
18	ACOUSTIC CLOUDS - GYP. BOARD ON MTL. STUD FRAMING (AND CONTROL JOINTS) - PAINT
19	PENDANT LIGHT - SEE ELECTRICAL
20	PAINT EXPOSED MEP SYSTEMS
21	4x4 CONVEX CEILING DIFFUSER(LAYIN)
22	SMOKE EVACUATION HATCH ABOVE
23	EXPOSED STRUCTURE
24	MOTORIZED PROJECTOR SCREEN - CENTERED OVER PROSCENIUM - SEE AV SHEETS
25	MOTORIZED PROJECTOR SCREEN - RECESSED IN CEILING - SEE AV SHEETS
26	ACOUSTIC CLOUD - WRAPPED W FABRIC ON MTL STUD. FRAMING

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100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **SCHOOL DISTRICT OF HOLMEN**
HIGH SCHOOL ADDITION & REMODELING
BID PACKAGE #2

Project Location: **1001 McHUGH RD**
HOLMEN, WI 54636

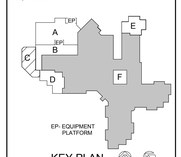
Sheet Title: **REFLECTED CEILING PLAN - SEGMENT C**

HSR Project Number: **18061**

Project Date: **JULY 2019**

Drawn By: **M.MALAND**

Key Plan:



KEY PLAN

PROJECT NORTH TRUE NORTH

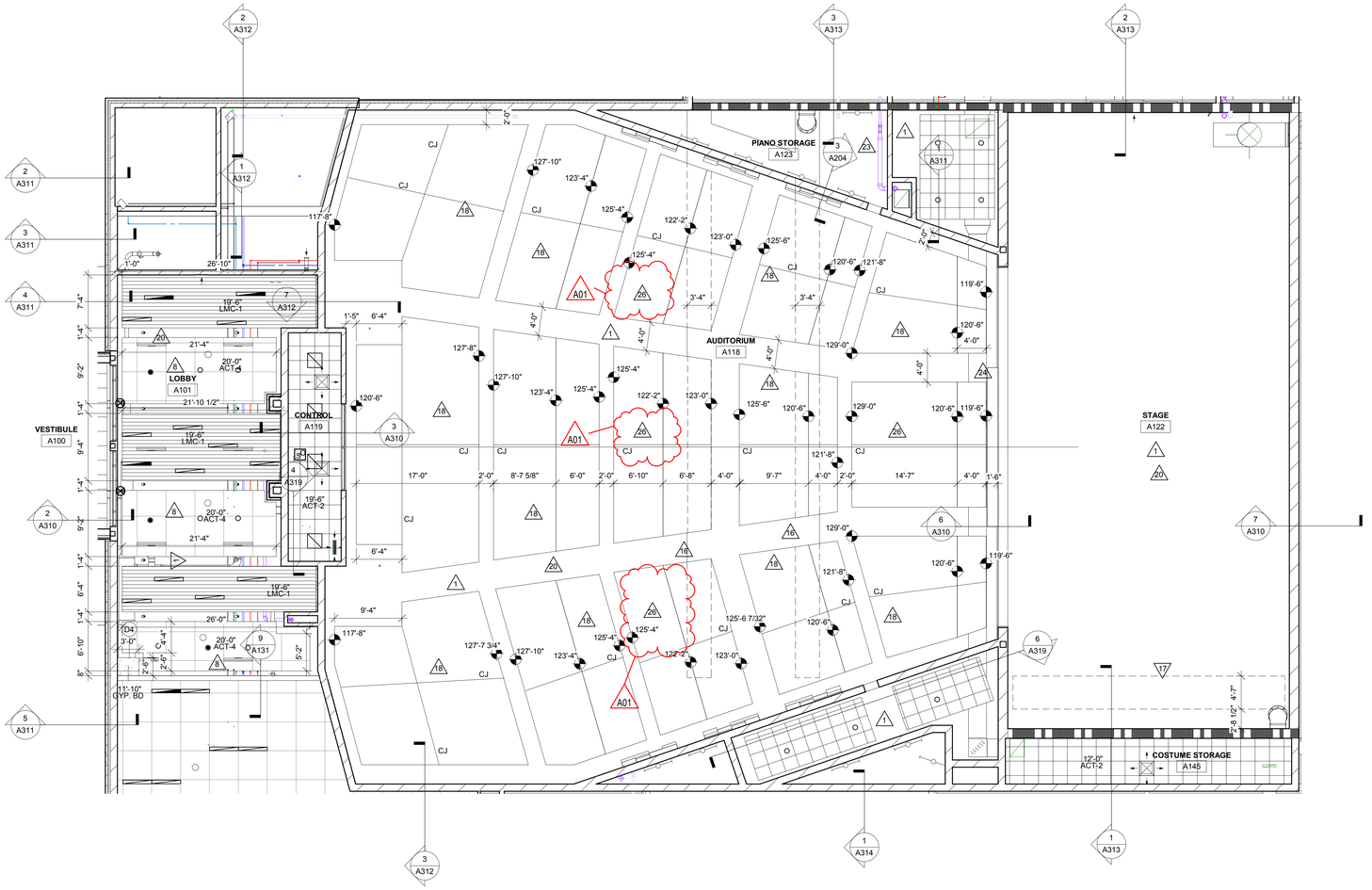
Revisions:

No.	Description	Date
A01	Addendum 1	7/25/19

Graphic Scale: **VARIES**

Last Update: **7/25/2019 2:35:09 PM**

A123



1 AUDITORIUM & LOBBY REFLECTED CEILING PLAN

1/8" = 1'-0"

PROJECT NORTH TRUE NORTH

GENERAL NOTES:

A	REFER TO MECHANICAL AND PLUMBING CEILING ACCESS PANEL LOCATIONS & SIZES.
B	SEE MECHANICAL FOR CEILING GRILLE INFORMATION
C	SEE ELECTRICAL FOR LIGHTING TYPES
D	ALL INTERIOR PARTITIONS TO EXTEND TO BOTTOM OF DECK UNLESS OTHERWISE NOTED. CLOSE DECK FLUTES AT TOP OF WALL WITH NEOPRENE FILLER OR FIRESTOPPING SYSTEM. IN GYP/STUD PARTITIONS SEE SPECIFICATION FOR LEVEL OF FINISH ABOVE FINISHED CEILING.
E	ALL REMAINING ANNULAR SPACE AROUND ITEMS PENETRATING WALLS SHALL BE NEATLY SEALED. PENETRATIONS OF FIRE RATED WALLS SHALL BE FIRESTOPPED WITH THE SAME AS THE WALL.
F	WHERE NO CEILING/EXPOSED STRUCTURE UNLESS NOTED OTHERWISE, CONTRACTOR SHALL KEEP ALL MEP ABOVE OR EVEN WITH THE LEVEL OF THE LIGHTS. MEP SHALL RUN IN NEAT ORDERLY APPEARANCE GENERALLY PARALLEL OR PERPENDICULAR TO FINISHED STRUCTURE. WALLS IN THESE ROOMS TO RUN TO DECK AND ALL STRUCTURE / MEP COMPONENTS ARE TO BE PAINTED.
G	ALL EXTERIOR EXPOSED STEEL LINTELS/HEADERS SHALL BE GALVANIZED, PRIMED AND PAINTED UNLESS NOTED OTHERWISE.
H	REFER TO INTERIOR DESIGN SHEETS FOR OTHER FINISHES
I	HANGERS AND SUPPORTS: MECHANICAL, PLUMBING, ELECTRICAL AND OTHER CABLING CONTRACTORS SHALL NOT HANG OR SUPPORT THE WORK FROM THE ROOF DECK IN ANY FASHION. CONDUIT RUNS SHALL NOT BE LAID ON ROOF DECK NOR LAID ON THE STRUCTURAL SUPPORT THAT SUPPORTS THE ROOF DECK. NO FASTENERS SHALL PENETRATE ROOF DECK BY ANY TRADE OTHER THAN THE ROOFING CONTRACTOR FOR THE NEW ROOF SYSTEM.
J	CONFIRM EXACT LOCATION OF OVERHEAD PROJECTORS AND OTHER CEILING MOUNTED EQUIPMENT WITH OWNER / MANUFACTURER PRIOR TO INSTALLATION. SEE EQUIPMENT PLANS FOR ADDITIONAL EQUIPMENT.
K	CEILING TYPES INSTALLED AS NOTED ON PLANS. SEE SPECIFICATIONS FOR ADDITIONAL SYSTEM INFORMATION. **ACT-1**=SQUARE EDGE, **ACT-2**=TEGULAR EDGE, **ACT-3**=VINYL FACED GYP **ACT-4**= 4x4 TEGULAR EDGE **ACT-5**= HIGH NRC 2x2 TEGULAR EDGE **LMC-1** = LINEAR METAL CEILING SYSTEM

LEGEND:

- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- SPEAKER - SEE ELECTRICAL
- SUPPLY - SEE MECHANICAL
- RETURN - SEE MECHANICAL
- EXHAUST - SEE MECHANICAL
- DESTRAT FAN - SEE MECHANICAL
- SHOWER CURTAIN AND ROD - SEE SPECIFICATIONS

KEY NOTES RCP

1	EXPOSED STRUCTURE - PAINT
2	GYP. BOARD SOFFIT - PAINT
3	METAL SOFFIT PANELS - WOOD GRAIN-TYPE 2 SECTION 076200 (A01)
4	GYP. BD ENCLOSURE AROUND PROSCENIUM OPENING - SEE SECTION 6A310 FOR DETAILS
5	EXTERIOR GYP BD WITH ACRYLIC COATING
6	PAINT EXPOSED STEEL LINTELS
7	SKYLIGHTS
8	ACT CLOUDS W/ 6" TRIM PIECE
9	FOLDING PANEL PARTITION WALL
10	DOUBLE MAT HOIST - SEE STRUCTURAL
11	FLUSH METAL SOFFIT PANELS-TYPE 1 SECTION 076200
12	ROOF FEATURE - SEE SECTION 9A315 FOR DETAILS
13	MODIFIY EXISTING CEILING TILE AND GRID FOR NEW CONSTRUCTION
14	FORWARD FOLDING BASKETBALL HOOPS - SEE SPECIFICATIONS
15	U-SHAPED CURTAIN TRACK AND CURTAIN TO DIVIDE VIDEO BAYS
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26	ACOUSTIC CLOUD - WRAPPED W FABRIC ON MTL STUD. FRAMING

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LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
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Consultant:

Project Title: **SCHOOL DISTRICT OF HOLMEN**
HIGH SCHOOL ADDITION & REMODELING
BID PACKAGE #2

Project Location: **1001 McHUGH RD**
HOLMEN, WI 54636

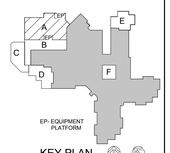
Sheet Title: **AUDITORIUM CEILING PLAN**

HSR Project Number: **18061**

Project Date: **JULY 2019**

Drawn By: **M.MALAND**

Key Plan:



KEY PLAN PROJECT NORTH TRUE NORTH

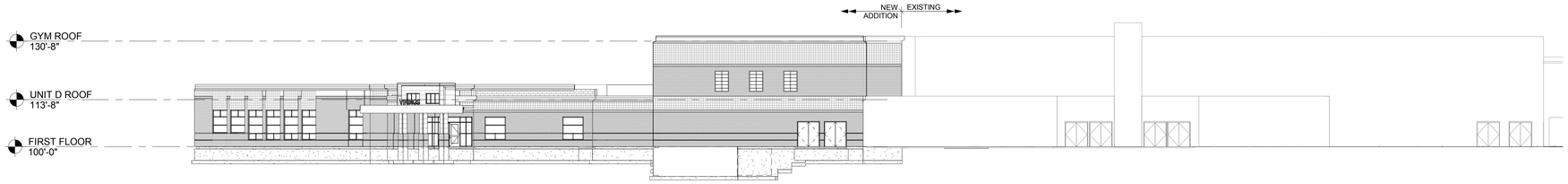
Revisions:

No.	Description	Date
A01	Addendum 1	7/25/19

Graphic Scale: **VARIES**

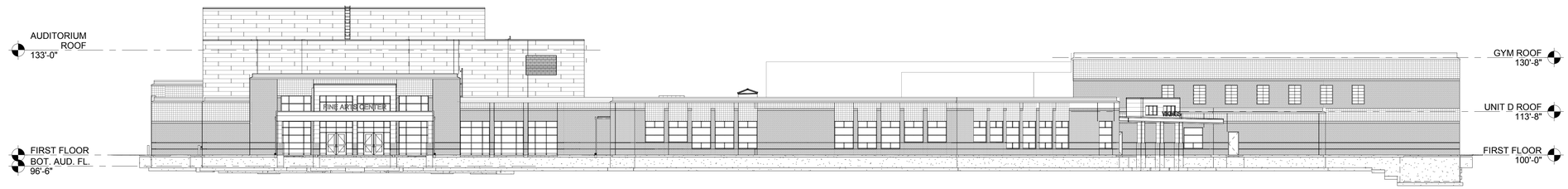
Last Update: **7/25/2019 2:35:12 PM**

A126



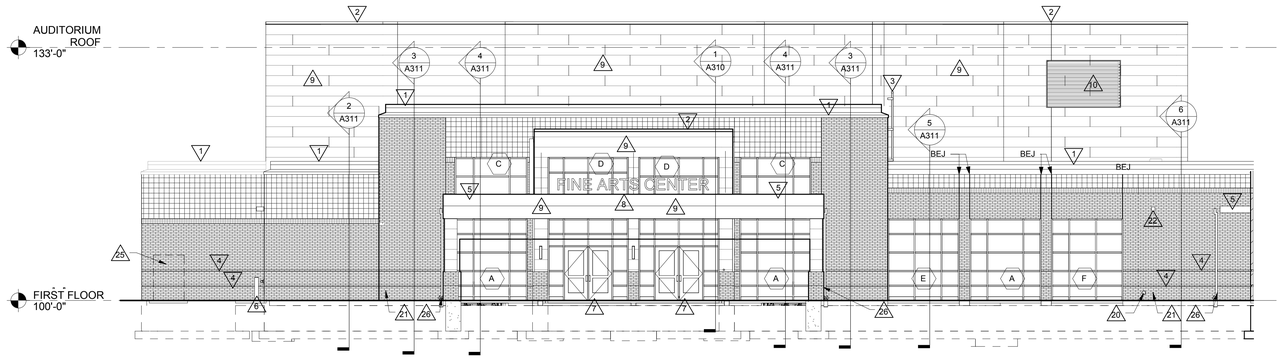
1 OVERALL - SOUTH

1/16" = 1'-0"



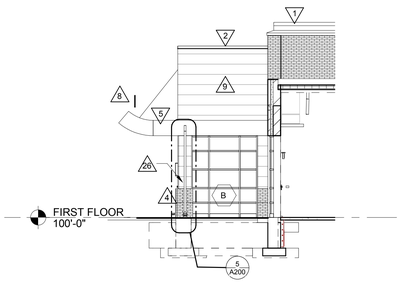
2 OVERALL - WEST

1/16" = 1'-0"



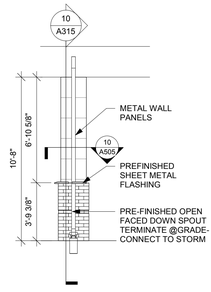
3 UNIT A - WEST

1/8" = 1'-0"



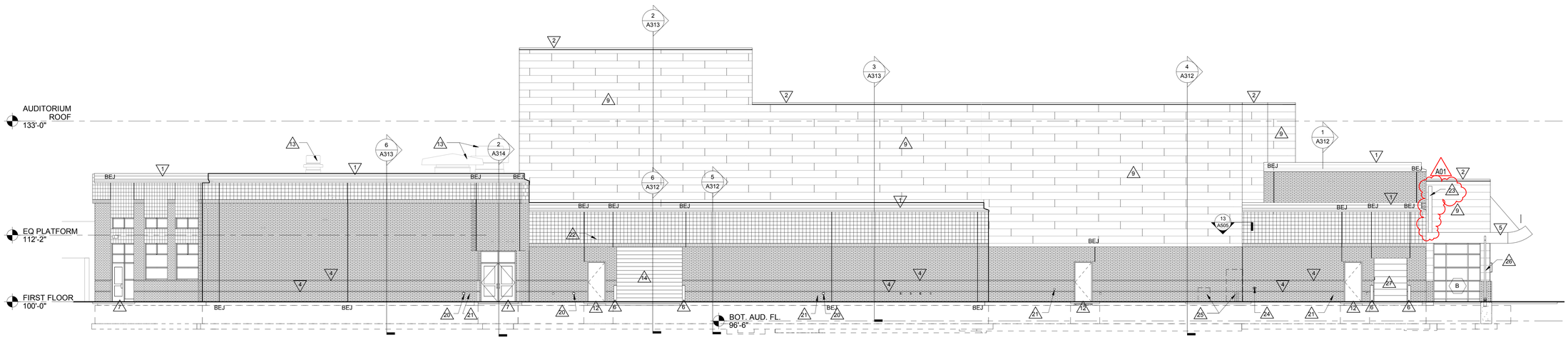
4 UNIT A - SOUTH VESTIBULE

1/8" = 1'-0"



5 COLUMN ELEVATION

1/4" = 1'-0"



6 UNIT A - NORTH

1/8" = 1'-0"

GENERAL NOTES:

A	SEE DETAILS A506 FOR BRICK CONTROL JOINT (BEJ) INFORMATION. SEE STRUCTURAL FOR CONTROL JOINT DETAILS.
B	BRICK COURSING: RUNNING BOND TYPICAL.
C	SEE SPECIFICATION FOR MATERIAL TYPE.

LEGEND:

1	KEYNOTE TAG
	WINDOW TAG, SEE SHEET A600 FOR FRAME ELEVATIONS
CJ	THROUGH WALL CONTROL JOINT - SEE DETAILS A505
BEJ	BRICK VENEER CONTROL JOINT - SEE DETAILS A505
	BRICK TYPE 1- FIELD & SOLDIER
	BRICK TYPE 2- ACCENT BAND (RECESSED)
	BRICK TYPE 3- 8x8 STACK BOND
	METAL PANEL

KEY NOTES ELEVATION

1	PRE FINISHED STEPPED SHEET METAL COPING - SEE DETAIL 1A500
2	PRE FINISHED METAL FASCIA
3	STEEL ROOF ACCESS LADDER (PAINT)
4	BRICK ACCENT COURSE - BRICK TYPE 2
5	PRE FINISHED METAL FASCIA AT CANOPY.
6	BOLLARDS - SEE SPECS.
7	THERMALLY BROKEN ALUMINUM ENTRANCE. SEE FRAME ELEVATIONS.
8	18" ALUMINUM CAST LETTERS ON RAIL AND STANDOFFS (BY SIGN SUPPLIER- COLOR TO BE DETERMINED. SEE 12A202.
9	METAL PLATE PANELS- INSTALL EXPANSION JOINTS AS RECOMMENDED BY MANUF.-16'W x 12'-0" IN LENGTH W/ LAP OF 1/3
10	PREFINISHED LOUVER-COORDIINATE WITH MECHANICAL.
11	CAST STONE SILL- SEE 11A503.
12	FIBERGLASS DOOR AND ALUMINUM FRAME.
13	ROOF TOP UNITS- SEE MECHANICAL.
14	INSULATED COILING DOOR
15	ROOFING MEMBRANE TO EXTEND UP WALL.
16	SKYLIGHTS- SEE ROOF PLAN.
17	BCJ AT INSIDE CORNER.
18	DUCT OPENING- COORDINATE LOCATIONS WITH MECHANICAL.
19	GLASS SECTIONAL OVERHEAD DOOR.
20	OVERFLOW PIPE- SEE PLUMBING AND DETAIL 18A505.
21	WALL HYDRANT- SEE PLUMBING.
22	EXTERIOR LIGHTING- SEE ELECTRICAL.
23	PREFINISHED SHEET METAL SCUPPER AND OPEN FACE DOWNSPOUT. SEE 5A131.
24	FIRE DEPARTMENT CONNECTION- SEE PLUMBING.
25	TRANSFORMERS- SEE ELECTRICAL.
26	OPEN FACE DOWNSPOUT CONNECTED TO STORM- SEE CIVIL.
27	INSULATED SECTIONAL OVERHEAD DOOR
28	-
29	-
30	-

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FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING
BID PACKAGE #2

Project Location: 1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title: EXTERIOR ELEVATIONS

HSR Project Number: 18061

Project Date: JULY 2019

Drawn By: MPL

Key Plan:

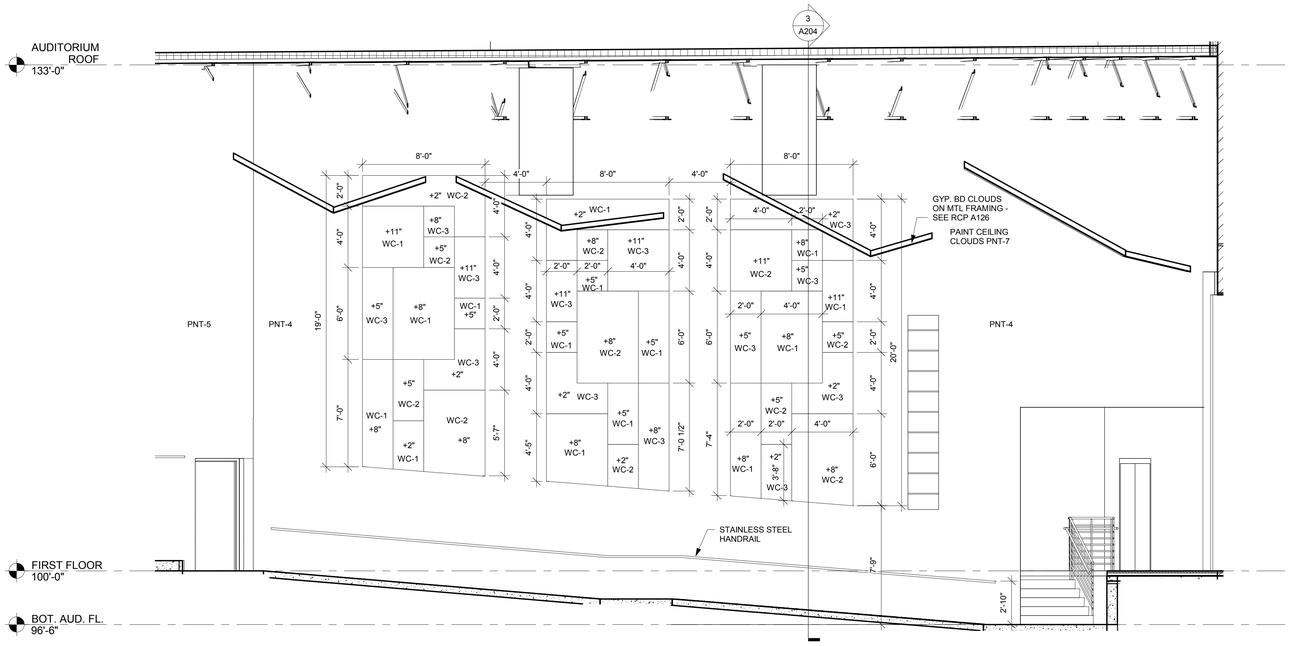
Revisions:

No.	Description	Date
A01	Addendum 1	7/25/19

Graphic Scale: VARIES

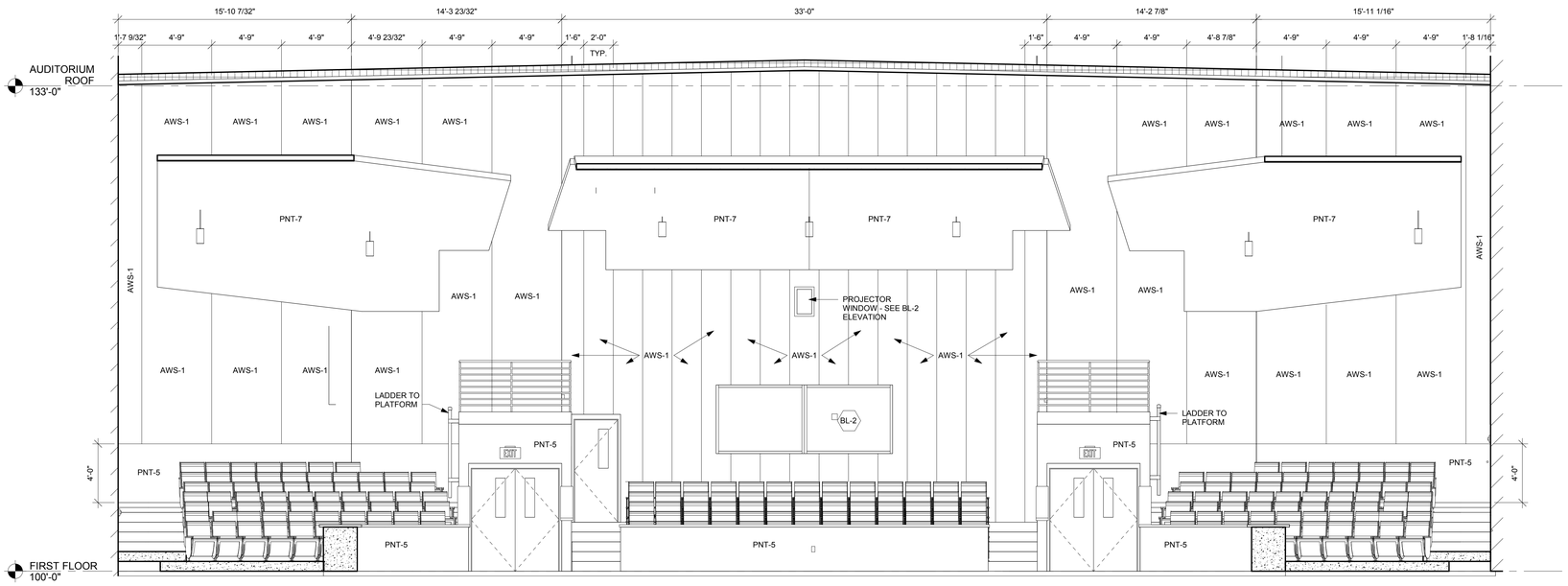
Last Update: 7/25/2019 2:35:25 PM

A200



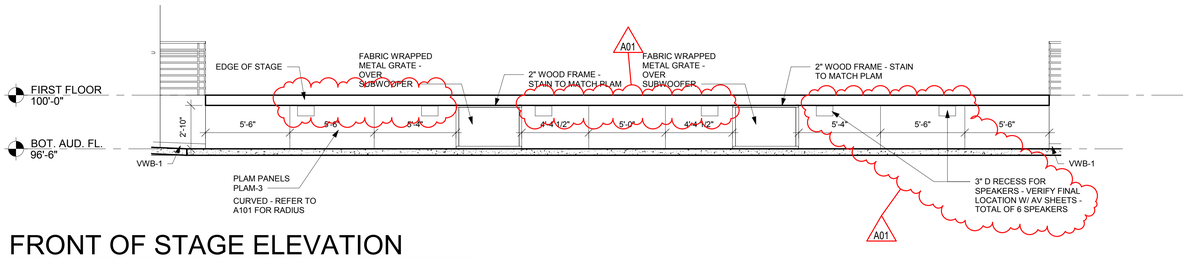
1 AUDITORIUM SIDE WALL ELEV.

1/4" = 1'-0"



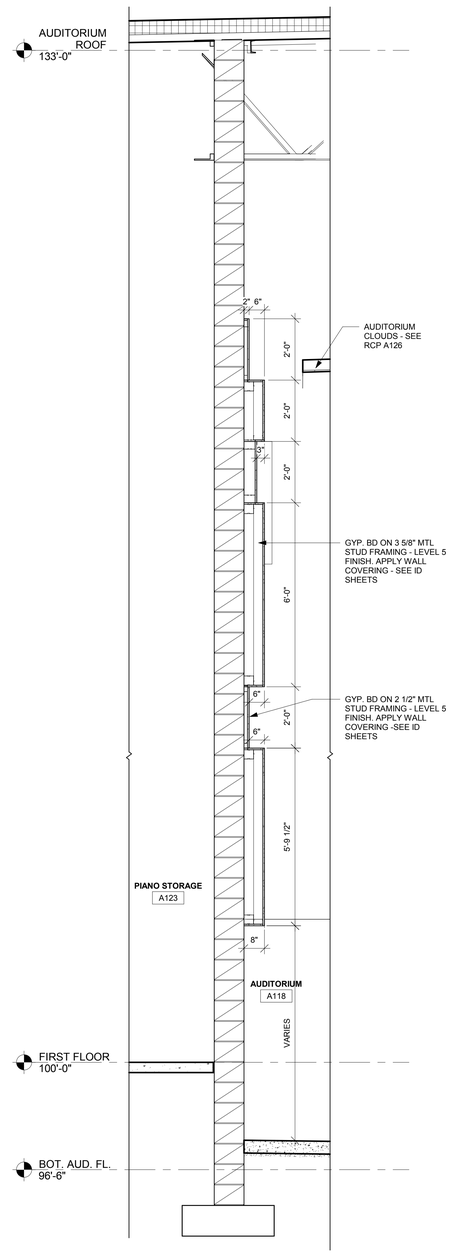
2 AUDITORIUM BACK WALL ELEV.

1/4" = 1'-0"



4 FRONT OF STAGE ELEVATION

1/4" = 1'-0"



3 WALL SECTION

1/2" = 1'-0"

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Project Title: **SCHOOL DISTRICT OF HOLMEN**
HIGH SCHOOL ADDITION & REMODELING
BID PACKAGE #2

Project Location: **1001 McHUGH RD**
HOLMEN, WI 54636

Sheet Title: **INTERIOR ELEVATIONS**

HSR Project Number: **18061**

Project Date: **JULY 2019**

Drawn By: **M.MALAND**

Key Plan:

Revisions:

No.	Description	Date
A01	Addendum 1	7/25/19

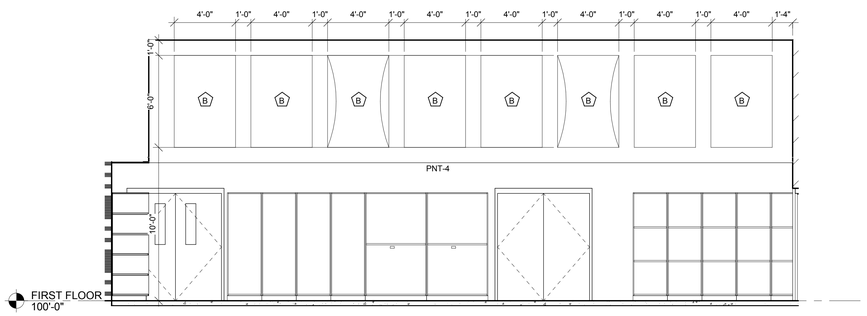
Graphic Scale: **VARIES**

Last Update: **7/25/2019 2:35:30 PM**

A204

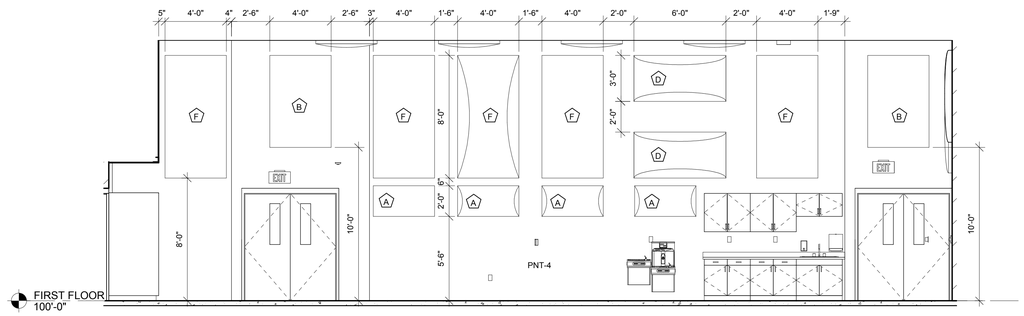
ACOUSTICAL WALL PANELS:

A	2X4 3" WALL ABSORBER.
B	4X6 3" WALL ABSORBER.
C	4X8 3" WALL ABSORBER.
D	3X6 WALL DIFFUSER.
E	4X2 WALL DIFFUSER.
F	4X8 TYPE II WALL DIFFUSER.



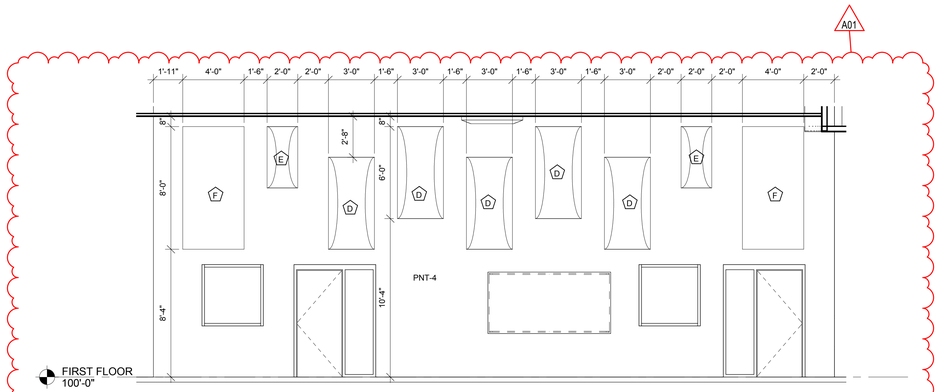
1 INTERIOR ELEVATION RM A134 SOUTH

1/4" = 1'-0"



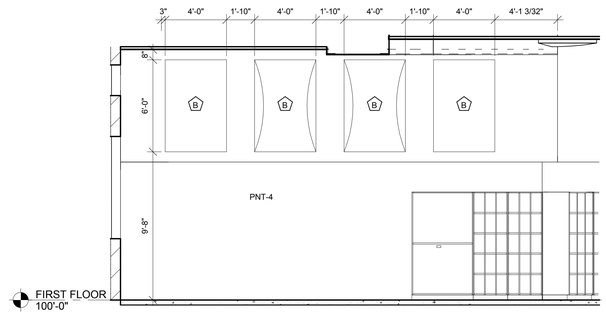
2 INTERIOR ELEVATION RM A134 WEST

1/4" = 1'-0"



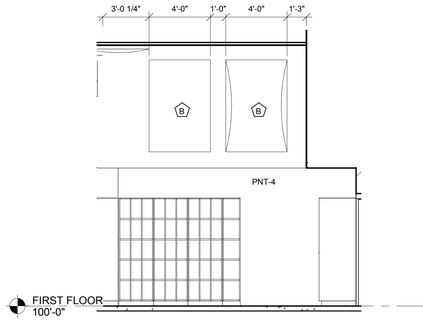
3 INTERIOR ELEVATION RM A134 NORTH

1/4" = 1'-0"



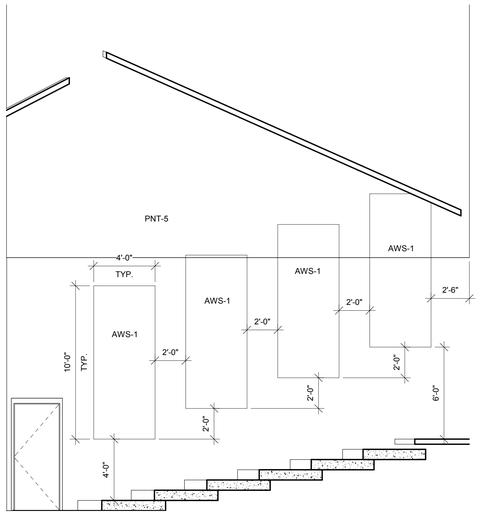
4 INTERIOR ELEVATION RM A134 SE

1/4" = 1'-0"



5 INTERIOR ELEVATION RM A134 EAST

1/4" = 1'-0"



6 AUDITORIUM SIDE WALL ELEV.

1/4" = 1'-0"

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100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
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Consultant:

Project Title:
SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING
BID PACKAGE #2

Project Location:
1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title:
INTERIOR ELEVATIONS

HSR Project Number:
18061

Project Date:
JULY 2019

Drawn By:
SB

Key Plan:

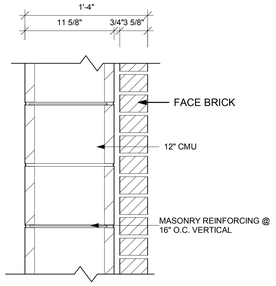
Revisions:

No.	Description	Date
A01	Addendum 1	7/25/19

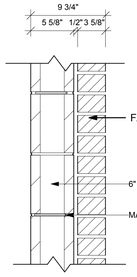
Graphic Scale:
VARIES

Last Update:
7/25/2019 2:35:33 PM

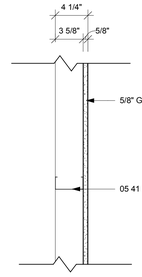
A206



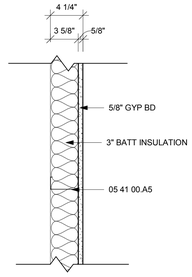
PARTITION TYPE	STUD WIDTH / SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RESISTANCE RATING	UL #	STC RATING
B6		1'-4"	1'-4"			



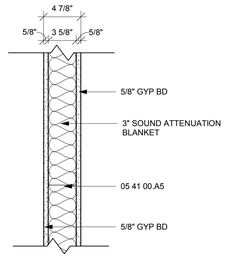
PARTITION TYPE	STUD WIDTH / SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RESISTANCE RATING	UL #	STC RATING
B7		9 3/4"	10"			



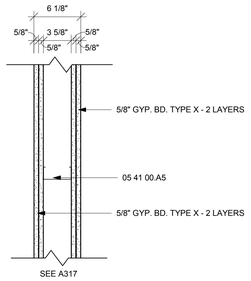
PARTITION TYPE	STUD WIDTH / SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RESISTANCE RATING	UL #	STC RATING
D4	16" O.C.	4 1/4"	4"			



PARTITION TYPE	STUD WIDTH / SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RESISTANCE RATING	UL #	STC RATING
D5	16" O.C.	4 1/4"	4"			

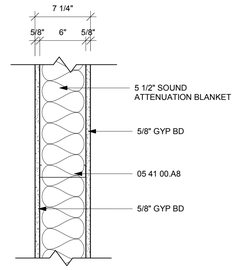


PARTITION TYPE	STUD WIDTH / SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RESISTANCE RATING	UL #	STC RATING
D7	16" O.C.	4 7/8"	5"			

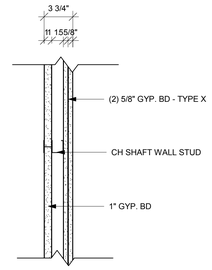


SEE A317

PARTITION TYPE	STUD WIDTH / SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RESISTANCE RATING	UL #	STC RATING
D8	16" O.C.	6 1/8"	6"	2 HR	U419	

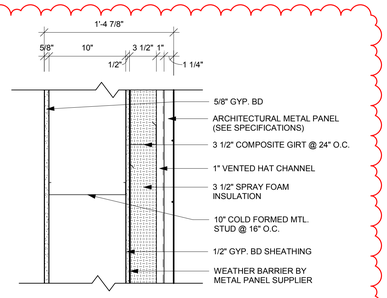


PARTITION TYPE	STUD WIDTH / SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RESISTANCE RATING	UL #	STC RATING
D11	16" O.C.	7 1/4"	7"			

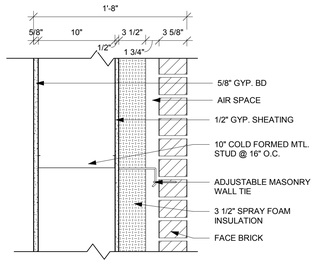


HORTIZONTAL

PARTITION TYPE	STUD WIDTH / SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RESISTANCE RATING	UL #	STC RATING
D12	24" O.C.	3 3/4"	4"	2 HR	U415	



PARTITION TYPE	STUD WIDTH / SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RESISTANCE RATING	UL #	STC RATING
A18	16" O.C.	1'-4 7/8"	1'-5"			



PARTITION TYPE	STUD WIDTH / SPACING	PARTITION WIDTH ACTUAL	PARTITION WIDTH NOMINAL	FIRE RESISTANCE RATING	UL #	STC RATING
A19	16" O.C.	1'-8"	1'-8"			

A01

GENERAL WALL TYPE NOTES:

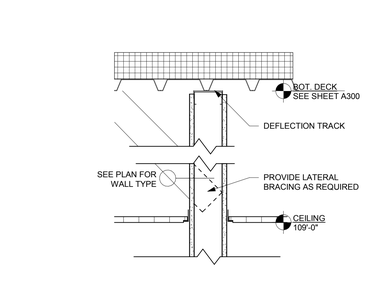
A	REFER TO MASTER COLOR SCHEDULE AND INTERIOR DESIGN SHEETS FOR ADDITIONAL WALL FINISHES.
B	WHERE INTERIOR DESIGN SHEETS INDICATE WALL TILE, INSTALL BACKER BOARD AT WET AND NON-WET LOCATIONS AS LISTED IN 09 21 16
C	NON RATED WALLS, INCLUDING BULKHEADS SHALL HAVE FRAMEING EXTENDED TO DECK ABOVE. GYP BOARD SHALL EXTEND TO 4" ABOVE CEILING UNLESS NOTED OTHERWISE. COLUMN FURRING MAY STOP 4" ABOVE CEILING.
D	EXTEND STUDS, GYP BOARD AND SOUND BLANKET TO DECK ABOVE AT SOUND CONTROL WALLS (INDICATED BY SOUND ATTENUATION BLANKETS, SOUND SEAL NOTE OR STC RATING). APPLY CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT FLOOR/CEILING TRACK STUDS AND STUD AT WALL. APPLY CONTINUOUS BEAD OF ACOUSTICAL SEALANT AT PERIMETER OF GYP BOARD HOLDING EDGE OF GYP BOARD AWAY FROM ADJACENT STRUCTURE NO MORE THAN 3/8". SEAL ALL M/E/P/FP PENETRATIONS WITH SOUND BLANKET, BACKING, ACOUSTICAL SEALANT AND FIRE STOPPING. AFTER INSTALLING ONE SIDE OF GYP BOARD, APPLY OVERSIZED 2" SOUND BLANKET OVER BACK SIDE OF ELECTRICAL BOXES AND SIMILAR PENETRATIONS. WHERE WALL BOXES OCCUR AT OPPOSITE SIDES, APPLY INSULATION TO BACKSIDE OF WALL BOXES. AT FIRE RATED WALLS REQUIRING SOUND CONTROL, USE PUTTY PADS FOR REQUIRED WALL RATING. REFER TO TOP OF WALL DETAILS FOR INSTALLATION OF ADDITIONAL MATERIALS AT DECK AND APPLICATION OF RATED TOP OF WALL ASSEMBLIES.
E	INSTALL GYPSUM BOARD CONTROL JOINTS AT TOP OF ALL INTERIOR TOP OF DOOR JAMBS TO TOP OF GYPSUM BOARD WALLS. OTHER CONTROL JOINTS TO BE INSTALLED PER PLAN OR AT 30'-0" O.C. MAX. REVIEW LOCATION REQUIREMENTS WITH A/E PRIOR TO START OF INSTALLATION OF GYPSUM BOARD ASSEMBLIES.
F	WHERE FIRE RATED WALLS ARE INDICATED BY WALL TYPE, USE UL OR EQUIVALENT APPROVED RATING SYSTEM INCLUDING TOP OF WALL AND PENETRATIONS.

RATED CMU WALL TABLE:

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

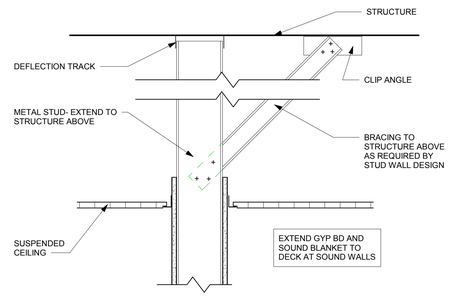
WALL ASSEMBLY R-VALUE COMPONENT TABLE:

COMPONENT	R-VALUE
FILM (INSIDE)	.68
5/8" GYP BOARD	.52
6" MTL STUD	- -
8" CMU	1.11
CONCRETE	.08 PER INCH (vault); .11 PER INCH (foundation)
5/8 GYP SHEAT	.69
FILM (OUTSIDE)	.17
RIGID FOAM	5 PER INCH
SPRAY FOAM	7 PER INCH
DEAD AIR	.85
BRICK	.44
STONE	.44
MTL PANEL	.62
SEE WALL TYPE FOR TOTAL WALL R-VALUE	



1 TOP OF WALL DETAIL

1 1/2" = 1'-0"



2 WALL BRACING DETAIL

1 1/2" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title:
SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING
BID PACKAGE #2

Project Location:
1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title:
WALL TYPES

HSR Project Number:
18061

Project Date:
JULY 2019

Drawn By:
M.MALAND

Key Plan:

Revisions:

No.	Description	Date
A01	Addendum 1	7/25/19

Graphic Scale:
VARIES

Last Update:
7/25/2019 2:35:34 PM

A601

DOOR SCHEDULE

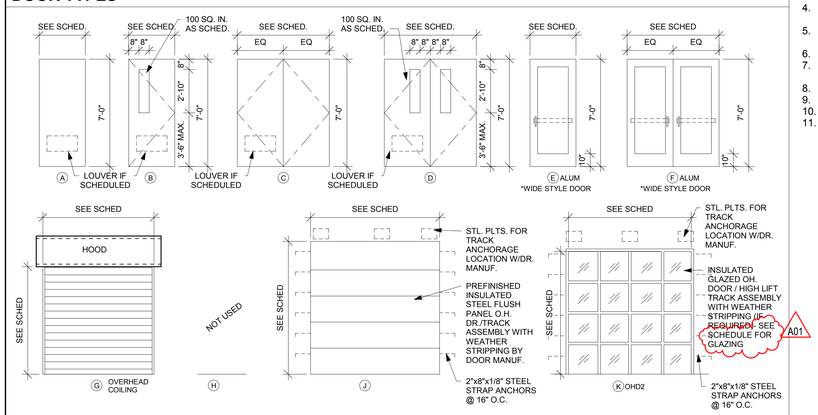
DOOR NO.	DOOR SIZE W	SIZE H	SIZE T	DOOR MAT'L	DOOR TYPE	DOOR GLASS TYPE	DOOR U-CUT OR LOUVER	FRAME MAT'L	FRAME ELEV	FRAME DETAILS DEPTH	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE LABEL	HDWR GROUP	REMARKS
A100A	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-12		ALUM	TT	6"	15A506				2	2
A100B	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-12		ALUM	TT	6"	15A506				1	1,2,11
A100C	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-12		ALUM	TT	6"	3A505	4A505	4A500		4	2
A100D	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-12		ALUM	TT	6"	3A500		4A500		3	2,11
A101A	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-4		ALUM	KK	4 1/2"	7A505	A01			5	3
A101B	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	8 3/4"	3A505				6	3
A103	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	8 3/4"	3A505				7	
A104	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505				7	
A105A	3' - 0"	7' - 2"	1 3/4"	FBRGL	A			ALUM	AA	6"	9A503	8A505	19A501 SIM		8	
A105B	6' - 0"	8' - 0"	1 1/2"	INSULATED SECTIONAL	J			STL			4A501 SIM	5A501	6A501			POWERED
A105C	3' - 0"	7' - 0"	1 3/4"	HM	A			HM	BB	8 3/4"	3A505	4A505			7	
A106	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			31	
A107	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			11	
A108	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			12	
A109	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			31	
A110A	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	5 3/4"	5A505				13	
A110B	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	5 3/4"	5A505				13	
A111	6' - 0"	7' - 0"	1 3/4"	SCWD	C			HM	BB	8 3/4"	3A505				14	3
A112	6' - 0"	7' - 0"	1 3/4"	SCWD	C			HM	BB	8 3/4"	3A505				14	3
A113	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	8 3/4"	3A505				10	
A114	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505				10	
A115	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505				10	
A116	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	8 3/4"	3A505				10	
A117	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	8 3/4"	5A505				12	
A118A	3' - 0"	7' - 2"	1 3/4"	FBRGL	A			ALUM	AA	6"	9A503	8A505	19A501 SIM		9	
A118B	6' - 0"	7' - 0"	1 3/4"	SCWD	C			HM	BB	5 3/4"	5A505				14A	3
A119	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	8 3/4"	3A505	4A505			15	
A120A	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	8 3/4"	3A505	4A505			16	3
A120B	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	5 3/4"	5A505				17	3
A121A	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	8 3/4"	3A505	4A505			16	3
A121B	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	5 3/4"	5A505				17	3
A123	6' - 0"	7' - 0"	1 3/4"	SCWD	C			HM	BB	8 3/4"	3A505	4A505			14	3
A124A	3' - 0"	7' - 2"	1 3/4"	FBRGL	A			ALUM	AA	6"	9A503	8A505	19A501		18	
A124B	12' - 0"	10' - 0"	2"	INSULATED COILING	G			STL			4A501	5A501	6A501			POWERED
A124C	12' - 0"	10' - 0"	2"	COILING	G			STL			8A501	9A501	10A501	45 MIN		POWERED/ALARM
A125	8' - 0"	10' - 0"	2"	COILING	G			STL			8A501 SIM	9A501 SIM				POWERED
A126A	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	5 3/4"	5A505				13	3
A126B	6' - 0"	7' - 0"	1 3/4"	SCWD	C			HM	BB	5 3/4"	5A505				16	3
A126C	6' - 0"	7' - 0"	1 3/4"	SCWD	C			HM	BB	5 3/4"	5A505				16	3
A127	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			12	
A128A	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-12		ALUM	LL	6"	16A501	18A501	19A501		1A	1,4
A128B	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-4		ALUM	MM	4 1/2"	1A505				3	4
A129A	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	5 3/4"	5A505				14	
A129B	6' - 4"	8' - 0"	2"	COILING				STL			8A501 SIM	9A501 SIM				HAND CHAIN
A130A	6' - 0"	7' - 0"	1 3/4"	SCWD	D	100 SQ. IN - GLT-25		HM	BB	8 3/4"	3A505	4A505		90 MIN	19	3
A131A	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	8 3/4"	3A505	4A505			12	
A131B	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	8 3/4"	3A505	4A505			12	
A132	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	8 3/4"	3A505	4A505			10	
A133	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	8 3/4"	3A505	4A505			10	
A134A	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	8 3/4"	3A505	4A505			21	3,6
A134B	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	8 3/4"	3A505	4A505			21	3,6
A134C	3' - 0"	7' - 0"	1 3/4"	ALUM	E	GLT-12		ALUM	NN	6"	16A500	18A501 SIM	19A501		18	
A135A	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	8 3/4"	3A505	4A505			20	3
A135B	6' - 0"	7' - 0"	1 3/4"	SCWD	C			HM	BB	8 3/4"	3A505	4A505			20	
A136	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	8 3/4"	3A505	4A505			21	6
A137	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	HH	8 3/4"	3A505	4A505			22	6
A138	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	HH	8 3/4"	3A505	4A505			22	6
A139	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	HH	8 3/4"	3A505	4A505			22	6
A140	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	HH	8 3/4"	3A505	4A505			22	6
A141	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	HH	8 3/4"	3A505	4A505			22	6
A142	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	HH	8 3/4"	3A505	4A505			22	
A143	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			12	
A144A	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	HH	8 3/4"	3A505	4A505			22	6
A144B	3' - 0"	7' - 0"	1 3/4"	HM	A			HM	BB	8 3/4"	3A505	4A505			23	6
A145	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	5 3/4"	5A505				12	
A146	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	5 3/4"	5A505				12	
B101A	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	8 3/4"	3A505	4A505			21	3
B101B	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	8 3/4"	3A505	4A505			21	3
B101C	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	8 3/4"	3A505	4A505			21	3
B101D	6' - 4"	9' - 4"	2"	OVERHEAD SECTIONAL	K	GLT-8		STL			1A504 SIM	2A504 SIM	A01			10
B101E	6' - 4"	9' - 4"	2"	OVERHEAD SECTIONAL	K	GLT-8		STL			1A504 SIM	2A504 SIM				10
B101F	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-4		HM	BB	8 3/4"	3A505	4A505			21	3
B102A	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			30	9
B102B	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			10	
B104A	3' - 0"	7' - 0"	1 3/4"	FBRGL	A			HM	BB	8 3/4"	9A502	10A502	11A502	90 MIN	24	5,9
B104B	3' - 0"	7' - 0"	1 3/4"	FBRGL	A			HM	BB	8 3/4"	9A502	10A502	11A502	90 MIN	24	5,9
B106	3' - 0"	7' - 0"	1 3/4"	SCWD	B	100 SQ. IN - GLT-25		HM	BB	8 3/4"	19A505		11A502	90 MIN	25	5,9
B107	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			27	9
B108	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			27	9
B109A	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			31	
B109B	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			10	9
B111	8' - 11"	10' - 0"	1' - 2"	FIRE DOOR							5A317	A01		90 Minute Fire Rating		8, POWERED/ALARM
B112A	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			31	
B112B	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			10	9
B116	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	8 3/4"	3A505	4A505			26	
B117	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			27	
B118	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			27	
B119	3' - 0"	7' - 0"	1 3/4"	SCWD	B	100 SQ. IN - GLT-25		HM	BB	8 3/4"	9A502	5A506	11A502	90 MIN	28	
B120A	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	4A502	4A505	5A502	90 MIN	29	9
B120B	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505		90 MIN	10	
B121A	6' - 0"	7' - 0"	1 3/4"	SCWD	D	100 SQ. IN - GLT-25		HM	BB	8 3/4"	4A502	A01		90 MIN	34	
B121B	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	19A505		11A502	90 MIN	29	9
B121C	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	19A505		11A502	90 MIN	29	9
B123	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	6 3/4"	3A505	4A505			11	
B124	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	6 3/4"	3A505	4A505			11	
C100A	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-12		ALUM	PP	6"	19A500	18A501 SIM	19A501		5A	1,2
C100B	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-12		ALUM	PP	4 1/2"	7A505	A01			4	2
C101	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			32	
C103A	6' - 0"	7' - 0"	1 3/4"	SCWD	F	GLT-4		HM	RR	8 3/4"	3A505	4A505			21	2
C103B	6' - 0"	7' - 0"	1 3/4"	SCWD	F	GLT-4		HM	RR	8 3/4"	3A505	4A505			21A	2
C103C	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-4		HM	VV	8 3/4"	3A505	4A505			21B	4
C103D	6' - 4"	10' - 0"	2"	OVERHEAD SECTIONAL	K	GLT-4		STL			1A504 SIM	2A504 SIM				10
C103E	6' - 4"	10' - 0"	2"	OVERHEAD SECTIONAL	K	GLT-4		STL			1A504 SIM	2A504 SIM	A01			10
C104	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	6 3/4"	3A505	4A505			7	
C105	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	6 3/4"	3A505	4A505			12	
C106A	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-12		ALUM	UU	6"	16A500	18A501	19A501		1A	1,4
C106B	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-4		ALUM	VV	4 1/2"	7A505	A01			1A	2
D100A	3' - 0"	7' - 0"	1 3/4"	SCWD	E	GLT-4		HM	WW	8 3/4"	3A505	4A505			35	
D100B	3' - 0"	7' - 2"	1 3/4"	FBRGL	A			ALUM	AA	6"	9A503	8A505	19A501		37	1
D100C	3' - 0"	7' - 0"	1 3/4"	HM	A			HM	HH	8 3/4"	3A505	4A505			36	
D101	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			11	
D102A	6' - 0"	7' - 0"	1 3/4"	SCWD	D	100 SQ. IN - GLT-25		HM	BB	8 3/4"	3A505	4A505		90 MIN	38	3
D102B	6' - 0"	9' - 4"	2"	COILING	G			STL			8A501	9A501				POWERED
D103A	6' - 0"	7' - 0"	1 3/4"	SCWD	D	100 SQ. IN - GLT-25		HM	BB	8 3/4"	3A505	4A505		90 MIN	19	3
D103B	6' - 0"	7' - 0"	1 3/4"	SCWD	D	100 SQ. IN - GLT-25		HM	BB	8 3/4"	3A505	4A505		90 MIN	19	3
D103C	6' - 2"	7' - 2"	1 3/4"	FBRGL	C			ALUM	EE	6"	9A503	8A505	19A501		39	4
D103D	6' - 2"	7' - 2"	1 3/4"	FBRGL	C			ALUM	EE	6"	9A503	8A505	19A501		39	4
D103E	10' - 0"	10' - 0"	2"	COILING				STL			5A503	6A503	11A502	90 MIN	40	POWERED/ALARM
D104A	3' - 0"	7' - 2"	1 3/4"	FBRGL	A			ALUM	AA	6"	9A503	8A505	19A501			
D104B	6' - 0"	7' - 0"	1 3/4"	SCWD	C			HM	BB	8 3/4"	3A505	4A505			14	3
D105A	12' - 0"	10' - 0"	2"	COILING	G			STL			8A501	9A501 SIM				POWERED
D105B	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	8 3/4"	3A505	4A505			32	
E100A	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-12		ALUM	XX	6"	16A500	STOREFRONT	19A501		1	1,2,11
E100B	6' - 2"	7' - 0"	1 3/4"	ALUM	F	GLT-12		ALUM	XX	4 1/2"	1A505				3	2,11
E101	6' - 0"	7' - 0"	1 3/4"	SCWD	D	100 SQ. IN - GLT-25		HM	BB	8 3/4"	13A504	14A504	15A504	90 MIN	19	3
E102A	6' - 0"	7' - 0"	1 3/4"	SCWD	D	GLT-18		HM	BB	8 3/4"	13A504	14A504	15A504	20 MIN	42	
E102B	3' - 0"	7' - 0"	1 3/4"	ALUM	E	GLT-12	A01	ALUM	YY	6"	16A500	18A501	19A501		18	
E102C	12' - 0"	10' - 0"	0"	OVERHEAD SECTIONAL	K	INSULATED BY MANUFACTURER		STL			1A504	2A504	3A504			POWER
E103A	3' - 0"	7' - 0"	1 3/4"	HM	A			HM	BB	8 3/4"	3A505	4A505			7	
E103B	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			7	
E104A	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	HH	8 3/4"	3A505	4A505			43	
E104B	3' - 0"	7' - 0"	1 3/4"	ALUM	E	GLT-4		ALUM	YY	4 1/2"	7A505				44	
E104C	12' - 0"	10' - 0"	0"	OVERHEAD SECTIONAL	K	GLT-4	A01	STL			1A504 SIM	2A504 SIM	3A504 SIM			10
E104D	12' - 0"	10' - 0"	0"	OVERHEAD SECTIONAL	K	INSULATED BY MANUFACTURER		STL			1A504	2A504	3A504			POWERED
E104E	3' - 0"	7' - 0"	1 3/4"	ALUM	E	GLT-12		ALUM	YY	6"	16A500	18A501	19A501		18	
E105A	3' - 0"	7' - 0"	1 3/4"	SCWD	E	GLT-18		HM	ZZ	8 3/4"	3A505	4A505		20 MIN	43	
E105B	3' - 0"	7' - 0"	1 3/4"	ALUM	E	GLT-4		ALUM	YY	4 1/2"	7A505				44	
E105C	12' - 0"	10' - 0"	0"	OVERHEAD SECTIONAL	K	GLT-4		STL			1A504 SIM	2A504 SIM	3A504			10
E105D	6' - 0"	7' - 0"	1 3/4"	SCWD	D	100 SQ. IN - GLT-25		HM	BB	8 3/4"	14A505	5A506		90 MIN	45	
E106A	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	5 7/8"	2A505	2A505			12	
E106B	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	2A505	2A505			12	
E107	3' - 0"	7' - 0"	1 3/4"	SCWD	B	100 SQ. IN - GLT-25		HM	BB	8 3/4"	3A505	5A506		90 MIN	43	
E108	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	2A505	2A505			12	
E109	3' - 0"	7' - 0"	1 3/4"	SCWD	B	100 SQ. IN - GLT-25		HM	BB	8 3/4"	9A502	5A506	11A502	90 MIN	46	
E110	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	HH	8 3/4"	3A505	4A505			7	
E114A	12' - 0"	9' - 4"	0"	OVERHEAD SECTIONAL	K	INSULATED BY MANUFACTURER		STL			1A504 SIM	2A504 SIM	3A504 SIM			7, POWERED
E114B	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	HH	5 3/4"	5A505				7	
E300	3' - 4"	7' - 0"	1 3/4"	HM	A			HM		5 3/4"	8A106		9A106		49	ALTERNATE - SEE A107
F100	6' - 4"	7' - 0"	1 3/4"	HM	C			HM	BB	8 3/4"	3A505	4A505			47	
F101	5' - 0"	7' - 4"	1 3/4"	SCWD	A			HM	JJ	8 3/4"	3A505	4A505			48	
F102	3' - 0"	7' - 0"	1 3/4"	SCWD	B	GLT-4		HM	BB	8 3/4"	3A505	4A505	A01		7	
F103	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			11	
F104	3' - 0"	7' - 0"	1 3/4"	SCWD	A			HM	BB	8 3/4"	3A505	4A505			12	

DOOR SCHEDULE GENERAL NOTES

HM = HOLLOW METAL FBRGL = FIBERGLASS ALUM = ALUMINUM SCWD = SOLID CORE WOOD DOOR

A. SEE SPECIFICATIONS FOR DOOR HARDWARE GROUPS
B. ALL HM (HOLLOW METAL) AND IHM (INSULATED HOLLOW METAL) DOORS AND FRAMES SHALL BE PAINTED
C. ALL DOUBLE DOORS TO HAVE TWO EQUAL LEAFS UNLESS NOTED OTHERWISE

DOOR TYPES



DOOR SCHEDULE REMARKS

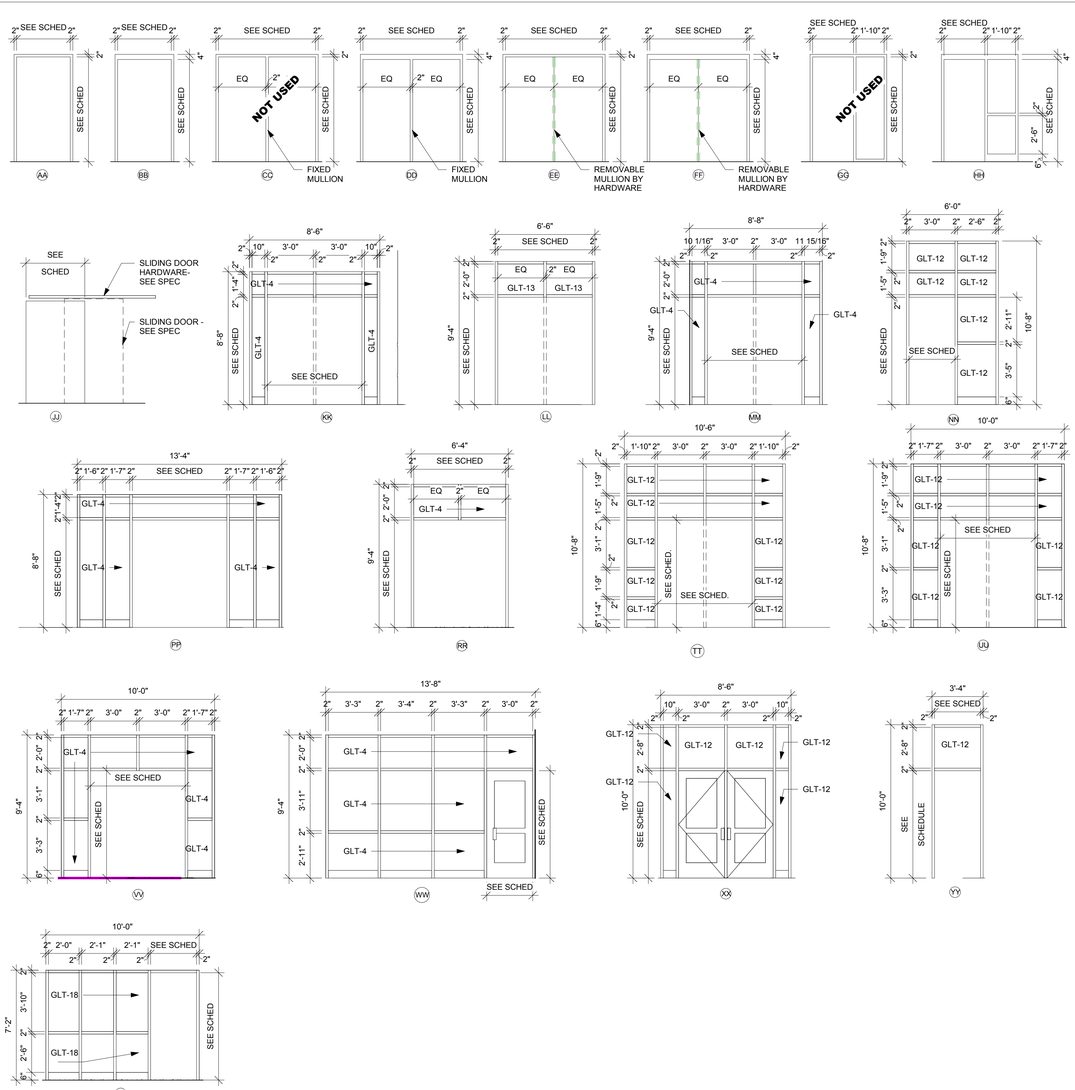
1. ELECTRONIC CARD ACCESS AND ELECTRONIC STRIKE REQUIRED.
2. TWO EQUAL LEAF DOORS WITH CENTER MULLION
3. TWO EQUAL LEAF DOORS
4. TWO EQUAL LEAF DOORS WITH KEYED REMOVABLE CENTER MULLION
5. MAGNETIC HOLD-OPENS TIED TO FIRE ALARM SYSTEM
6. ACOUSTIC SEALS
7. NEW OVERHEAD DOOR IN EXISTING EXTERIOR WALL
8. HORIZONTAL SLIDING FIRE DOOR
9. GALV. FRAME
10. INTERIOR LATCH
11. AUTO OPERATOR

DOOR FRAME GENERAL NOTES

HM = HOLLOW METAL ALUM = ALUMINUM STL = STEEL

A. SEE SHEET A600 FOR ADDITIONAL FRAME TYPES
B. ALL HM (HOLLOW METAL) AND IHM (INSULATED HOLLOW METAL) FRAMES SHALL BE PAINTED.

DOOR FRAME TYPES



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100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING
BID PACKAGE #2

Project Location: 1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title: DOOR SCHEDULE

HSR Project Number: 18061

Project Date: JULY 2019

Drawn By: M.MALAND

Key Plan:

Revisions:

No.	Description	Date
A01	Addendum 1	7/25/19

Graphic Scale: VARIES

Last Update: 7/25/2019 2:35:41 PM

A602

MASTER COLOR SCHEDULE

	MANUFACTURER / COLOR		GENERAL LOCATION	REMARKS
06 41 00 CUSTOM...				
PLAM-1 (Plastic Laminate)	Manufacturer: Color: Finish:	Nevamar Clear Maple Armored Protection	Casework	Comparable Products by Prior Approval
PLAM-2	Manufacturer: Color: Finish:	Nevamar Veto Proof Armored Protection	Countertops	Comparable Products by Prior Approval
PLAM-3	Manufacturer: Color: Finish:	Formica Natural Cherry Matte Finish	Auditorium	Comparable Products by Prior Approval
PLAM-4	Manufacturer: Color: Finish:	Wilsonart Kensington Maple Matte Finish	Musical Instrument Storage	Comparable Products by Prior Approval
06 61 00 SIMULATED...				
SS-1 (Solid Surface)	Manufacturer: Color: Finish:	Avonite Coatline Satin	Window Sills	Comparable Products by Prior Approval
09 30 00 TILE				
TLE-1 (Tile)	Manufacturer: Product: Color: Size: Installation:	Ceramic Tile Works Modern Dark Grey (Natural) 12"x24" See ID Sheets	Floor Tile in Restrooms A106, A107, A109, A114, A115	Comparable Products by Prior Approval
TLE-2	Manufacturer: Product: Color: Size:	Ceramic Tile Works Modern Black 2"x2"	Floor Tile In Shower Areas B104, B107, B108, B114, B117, B118 D100, D101	Comparable Products by Prior Approval
TLE-3	Manufacturer: Product: Color: Size: Installation:	Virginia Tile Craft Wicker Dove 12"x22" See ID Sheets	Wall Tile in Auditorium Lobby Restrooms A106, A107, A109	Comparable Products by Prior Approval
TLE-4	Manufacturer: Product: Color: Size: Installation:	Virginia Tile Evood Taupe Glazed 3"x12" See ID Sheets	Accent Wall Tile in Auditorium Lobby Restrooms A106, A107, A109	Comparable Products by Prior Approval
TLE-5	Manufacturer: Product: Color: Size: Installation:	Virginia Tile Run Salt 12"x24" See ID Sheets	Wall Tile Interior Elevations A114, A115C, B107, B108, B117, B118, D101	Comparable Products by Prior Approval
TLE-6	Manufacturer: Product: Color: Size:	Ceramic Tile Works Modern Black 6" high	Tile Base	Comparable Products by Prior Approval
TT-1 (Tile Trim)	Manufacturer: Product: Style: Color:	Schluter Systems Edge-protection and transition profiles Varies depending on location, see ID sheets Brushed Stainless Steel	Apply to all tile transitions unless otherwise noted	Comparable Products by Prior Approval
TT-2	Manufacturer: Product: Style: Color:	Schluter Systems Cove Shaped Profile DILEX-EHK Brushed Stainless Steel		Comparable Products by Comparable Products by Prior Approval
TT-3	Manufacturer: Product: Style: Color:	Schluter Systems Finishing and Edge Protection Jolly Brushed Stainless Steel		Comparable Products by Prior Approval
09 65 00 RESILIENT...				
LVT-1 (Luxury Vinyl Tile)	Manufacturer: Collection: Color: Size: Thickness: Wear Layer: Install:	Mohawk Hot and Heavy - Lineate Groove 868 9"x59" 5 mm 20 mil Ashlar	Field LVT	Comparable Products by Prior Approval
LVT-2	Manufacturer: Collection: Color: Size: Thickness: Wear Layer: Install:	Interface Level Set - Stones Botticino Marble 50cm x 50cm 4.5mm 22 mil Monolithic Non Directional	Auditorium Lobby	Comparable Products by Prior Approval
LVT-3	Manufacturer: Collection: Color: Size: Thickness: Wear Layer:	Interface Level Set - Stones Warm Impala Marble 50cm x 50cm 4.5mm 22 mil	Accent Auditorium Lobby	Comparable Products by Prior Approval
RT-1 (Rubber Tile)	Manufacturer: Product: Color: Texture: Thickness:	Johnsonite Rubber Tile Flooring Moonrock 29 Hammered 1/8"	Ramp	Comparable Products by Prior Approval
RST-1 (Rubber Stair Tread)	Manufacturer: Product: Color: Texture:	Johnsonite HNTR-29 Moonrock 29 Hammered	One Piece Angle Fit Stair Treads with Integrated Riser	Comparable Products by Prior Approval
VWB-1 (Vinyl Wall Base)	Manufacturer: Size: Color:	Johnsonite 4" Moonrock 29		Comparable Products by Prior Approval
VCE-1 (Vinyl Carpet Edge)	Manufacturer: Product: Color:	Johnsonite Varies by location, see ID sheets Moonrock 29		Comparable Products by Prior Approval
09 65 66 RESILIENT...				
RAF-1 (Resilient Athletic Flooring)	Manufacturer: Collection: Product: Color: Size: Thickness:	Ecore Stacked Performance Monster Steel Appeal 2 (ES15A) 22.5mm	Fitness Center	Comparable Products by Prior Approval
RAF-2	Manufacturer: Collection: Product: Color: Size: Thickness:	Ecore Stacked Performance Monster Dark Gray (ES502) 22.5 mm	Fitness Center	Comparable Products by Prior Approval
RAF-3	Manufacturer: Collection: Product: Color: Size: Thickness:	Ecore Stacked Performance Monster Basic Black (ES00) 22.5 mm	Fitness Center	Comparable Products by Prior Approval
PAF-1 (Poured Athletic Flooring)	Manufacturer: Collection: Product: Color: Thickness:	Robbins Sports Flooring Pulastic Synthetic Sports Floor Classic 90 Dusty Grey 506 9 mm	Hallway	Comparable Products by Prior Approval
PAF-2	Manufacturer: Collection: Product: Color: Thickness:	Robbins Sports Flooring Pulastic Synthetic Sports Floor Classic 110 Dusty Grey 506 11 mm	Gym	Comparable Products by Prior Approval
TURF	Manufacturer: Collection: Product: Color: Thickness:	Ecore Training Ground TurfX Field Green 35mm	Fitness Center	Comparable Products by Prior Approval
09 68 50 CARPETING				
CPT-1 (Carpet Tile)	Manufacturer: Style Name: Color Name: Construction: Size: Backing: Installation:	Patcraft Bio Symmetry - Rebalance Hilltop Multi-Level Pattern Loop 24"x24" Stratoworx Tile Brick	Auditorium Catwalk Band Room A01	Comparable Products by Prior Approval
CPT-2	Manufacturer: Style Name: Color Name: Construction: Size: Installation:	J and J Velocity (Kinetex) Move 1608 Textile Composite 24"x24" Quarter Turn	Coach's Conference Rm Training Room	Comparable Products by Prior Approval
CPT-3	Manufacturer: Style Name: Color Name: Construction: Size: Gauge: Installation:	Shaw Assembly - Establish Tile Interaction multi-level pattern loop 12"x48" 1/12" Ashlar	Video Studio	Comparable Products by Prior Approval
WCPT-1 (Walk Off Carpet)	Manufacturer: Style Name: Color Name: Construction: Size: Backing: Installation:	Shaw All Access - Portal Tile Lava Multi-level pattern loop 24"x24" Synthetic; ecoworx tile Monolithic	Vestibules	Comparable Products by Prior Approval
09 72 00 WALL...				
WC-1 (Wallcovering)	Manufacturer: Brand: Color:	3M DI-NOC WG-833 Wood grain to run vertical	Auditorium A01	Comparable Products by Prior Approval
WC-2	Manufacturer: Brand: Color:	3M DI-NOC WG-836 Wood grain to run vertical	Auditorium	Comparable Products by Prior Approval
WC-3	Manufacturer: Brand: Color:	3M DI-NOC WG-1375 Wood grain to run vertical	Auditorium	Comparable Products by Prior Approval
09 84 15 ACOUSTICA...				
AWS-1 (Acoustical Wall System)	Manufacturer: Product Backing: NRC: Edge: Fabric	FabricMate 1" FS-155 Acoustical Wall Track System Recore .75 (1" thick) Square Guilford of Maine - Framework Stone 2688	Fine Arts A01	Comparable Products by Prior Approval
AWS-2	Manufacturer: Core Thickness: Size: FABRIC Manufacturer: Style: Color:	Basis of Design 2" 4'x4', 4'x6' Guilford of Maine Anchorage Mulberry 2044	Gym	Comparable Products by Prior Approval
09 90 00 PAINTS AND...				
PNT-1 (Paint)	Manufacturer: Color: Color Code:	Sherwin Williams March Wind (282-C3) 7668	Field Paint Fitness epoxy paint in locker rooms	*or Equal
PNT-2	Manufacturer: Color: Color Code:	Sherwin Williams Summit Gray (282-C5) 7669	Accent Paint Fitness	*or Equal
PNT-3	Manufacturer: Color: Color Code:	Pantone PMS1815	Accent Paint Fitness and Fine Arts	School Color
PNT-4	Manufacturer: Color: Color Code:	Sherwin Williams Perfect Greige (242-C3) 6073	Fine Arts	*or Equal
PNT-5	Manufacturer: Color: Color Code:	Sherwin Williams Spalding Gray (242-C5) 6074	Accent Paint Fine Arts	*or Equal
PNT-6	Manufacturer: Color: Color Code:	Sherwin Williams Iron Ore (251-C7) 7069	Accent Paint Hollow Metal Window and Door Frames	*or Equal
PNT-7	Manufacturer: Color: Color Code:	Sherwin Williams Pavilion Beige (250-C4) 7512	A01 Ceiling Clouds in Auditorium	*or Equal
PNT-8	Manufacturer: Color: Color Code:	Sherwin Williams Tricorn Black (251-C1) 6258	Stage A122	*or Equal
10 11 24 TACKABLE...				
TW-1 (Tackable Wall)	Manufacturer: Product: Color: Product Number:	Koroseal Walltalkers Tac-Wall Quarry SMS21821	Fine Arts Display Case	Comparable Products by Prior Approval See 06 41 00
10 21 13 TOILET...				
TP-1 (Toilet Partition)	Manufacturer: Product: Color: Finish:	Scranton Plastic Toilet Partitions Stainless Hammered	Toilet Partitions	Comparable Products by Approval
12 05 00 FABRICS				
FAB-1 (Fabric)	Manufacturer: Style: Color:	Guilford of Maine Framework Stone 2688	A01 Front of stage	Comparable Products by Approval
FAB-2	Manufacturer: Style: Color:	Guilford of Maine Anchorage Birch 2129	Ceiling Clouds	Comparable Products by Approval
FAB-3	Manufacturer: Style: Color: Weight:	Fred Krieger Fabrics Epic Velour Woven Velvet Black 25 oz. per linear yard	Curtains in Video Lab	Comparable Products by Approval

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100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING
BID PACKAGE #2

Project Location: 1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title: MASTER COLOR SCHEDULE

HSR Project Number: 18061

Project Date: JULY 2019

Drawn By: SB

Key Plan:

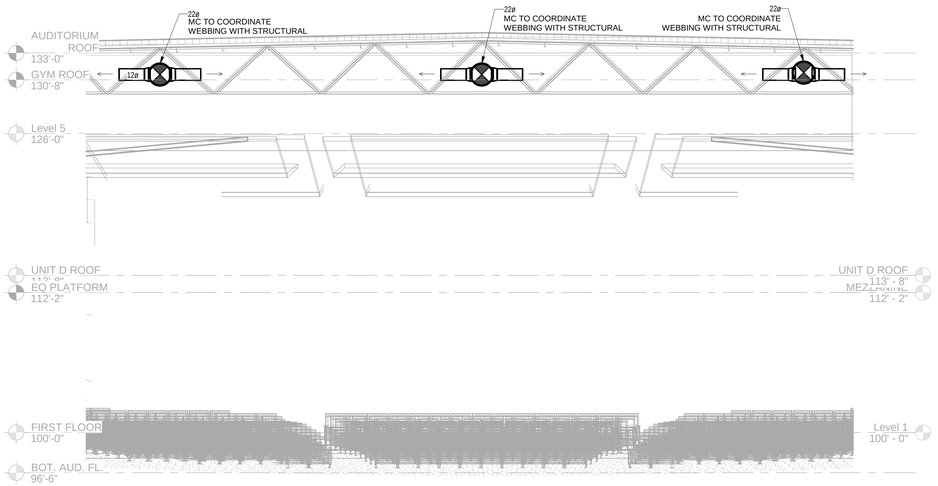
Revisions:

No.	Description	Date
A01	Addendum 1	7/25/19

Graphic Scale: VARIES

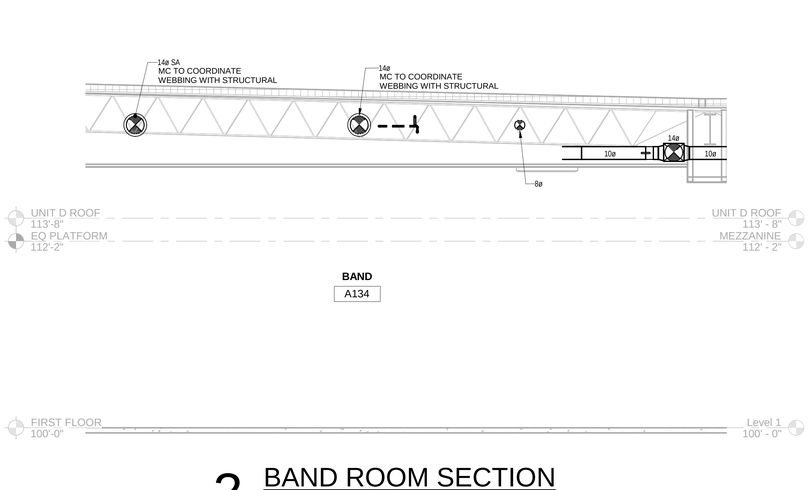
Last Update: 7/25/2019 2:35:48 PM

ID600



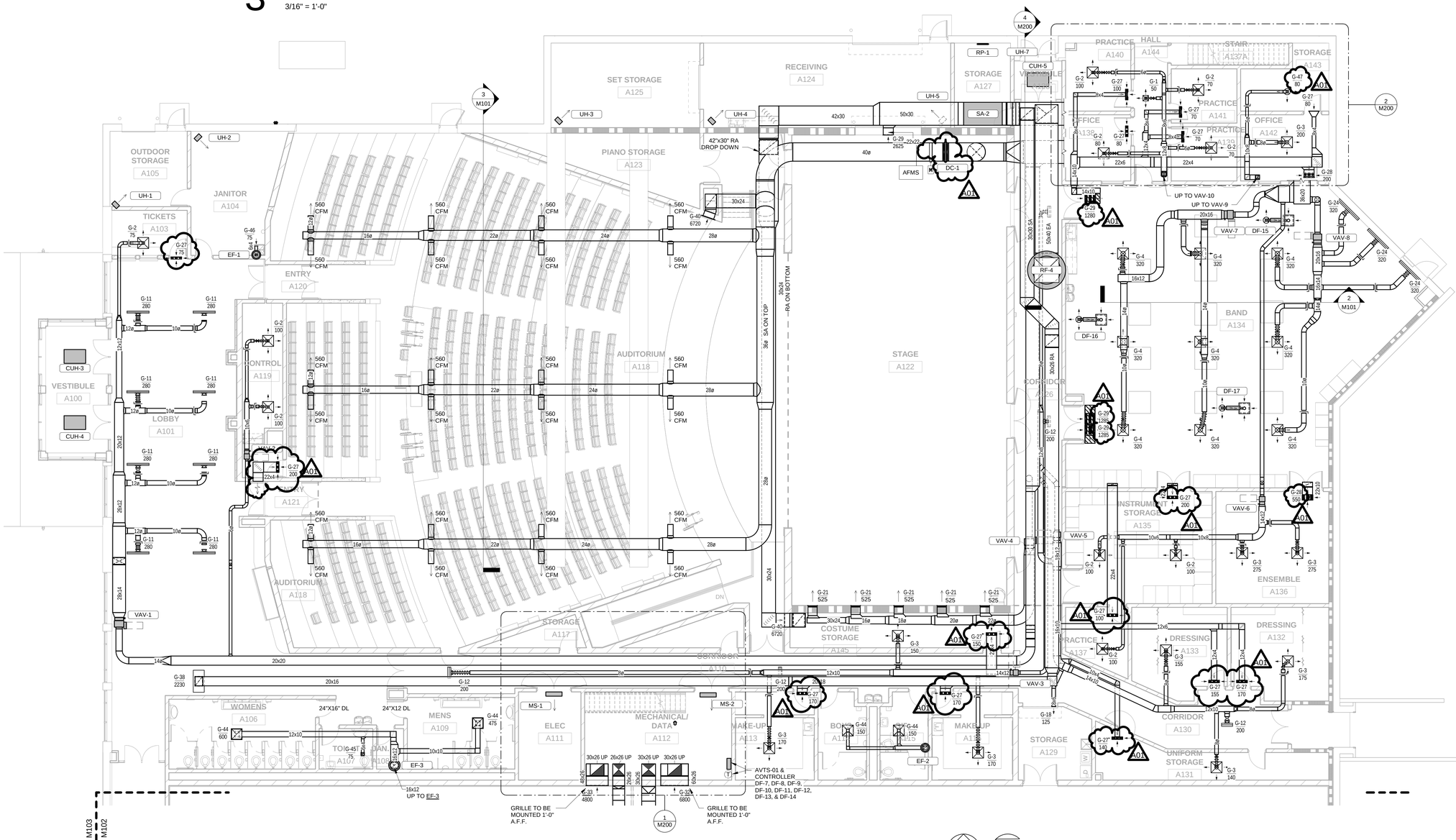
3 AUDITORIUM SECTION

3/16" = 1'-0"



2 BAND ROOM SECTION

1/4" = 1'-0"



1 DUCTWORK REMODEL PLAN - SEG. 'A'

1/8" = 1'-0"

PROJECT NORTH TRUE NORTH

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FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **SCHOOL DISTRICT OF HOLMEN**
HIGH SCHOOL ADDITION & REMODELING

Project Location: **1001 McHUGH RD**
HOLMEN, WI 54636

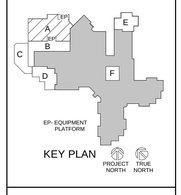
Sheet Title: **MECHANICAL DUCT REMODEL PLAN - SEG. 'A'**

HSR Project Number: **18061**

Project Date: **JULY 2019**

Drawn By: **Lescher**

Key Plan:



Revisions:

No.	Description	Date
A01	Addendum 1	7/25/2019

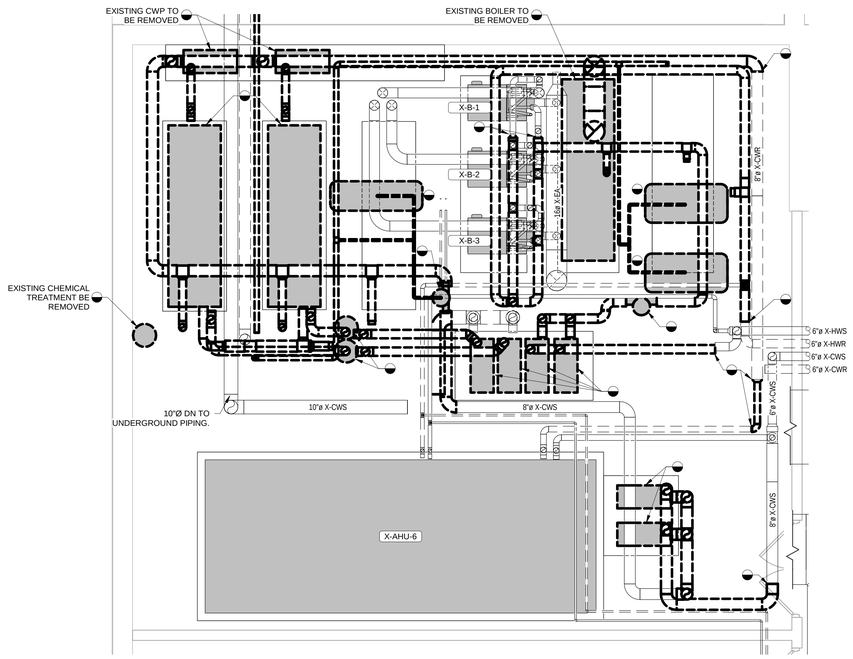
Graphic Scale: 0' 2' 4' 8' 12'

Last Update: **7/25/2019 3:02:32 PM**

M101

M104 KEYNOTES - REMODEL

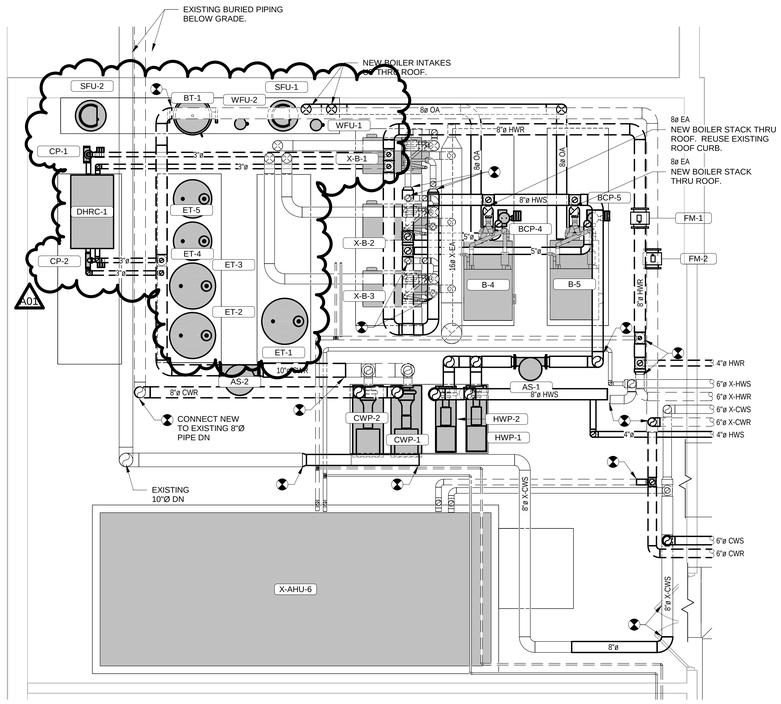
Keynote Number	Keynote Description
1	EXISTING TRANSFER TO REMAIN. REUSE EXISTING GRILLES/DIFFUSERS
2	EXISTING STOVE WITH HOOD TO BE RELOCATED. INSTALL EXHAUST PER MANUFACTURER'S RECOMMENDATIONS.
3	6'Ø EXHAUST DUCT DROP DOWN TO 18" A.F.F. EACH DROP WITH EXPANDED METAL GRILL. BALANCE FOR 200 CFM EACH.
4	4'Ø PLYMOVENT EXTRACTION ARMS. TYPICAL FOR ALL WELDING STATIONS. REFER TO SPECIFICATIONS FOR MODEL AND ADDITIONAL INFORMATION.
5	ALL EXPOSED DUCTWORK IN METALS LABD SHALL BE PAINTED TO MATCH THE INTERIOR WALL/CEILING COLOR. COORDINATE FINAL COLORS WITH A/E.



PROJECT NORTH TRUE NORTH

3 ENLARGED MECHANICAL ROOM (REMOVAL)

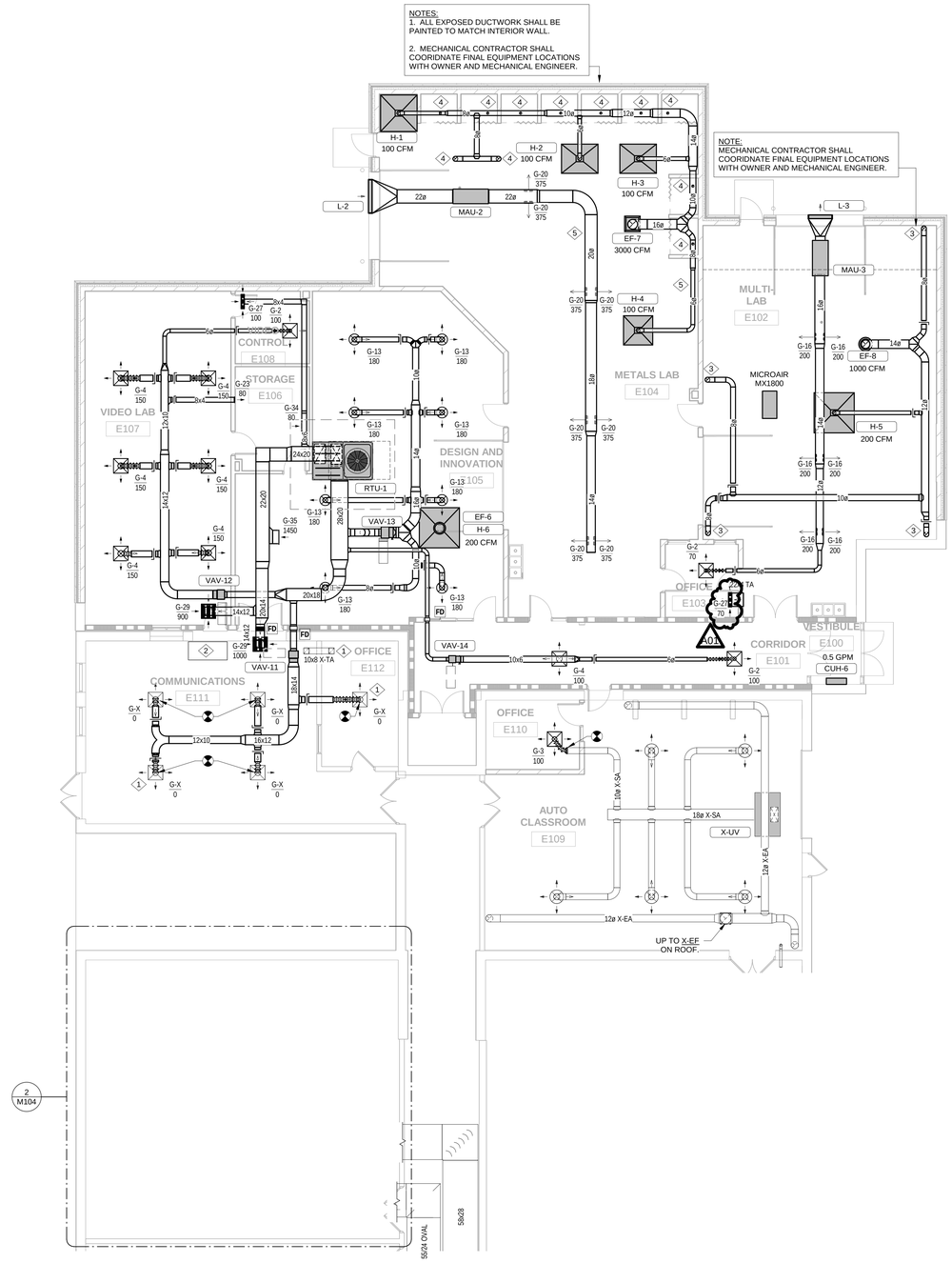
1/4" = 1'-0"



PROJECT NORTH TRUE NORTH

2 ENLARGED MECHANICAL ROOM (REMODEL)

1/4" = 1'-0"



PROJECT NORTH TRUE NORTH

1 DUCTWORK REMODEL PLAN - SEG. 'E'

1/8" = 1'-0"

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LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING

Project Location: 1001 McHUGH RD
HOLMEN, WI 54636

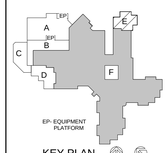
Sheet Title: MECHANICAL DUCTWORK REMODEL PLAN - SEG. 'E'

HSR Project Number: 18061

Project Date: JULY 2019

Drawn By: Lescher

Key Plan:



KEY PLAN PROJECT NORTH TRUE NORTH

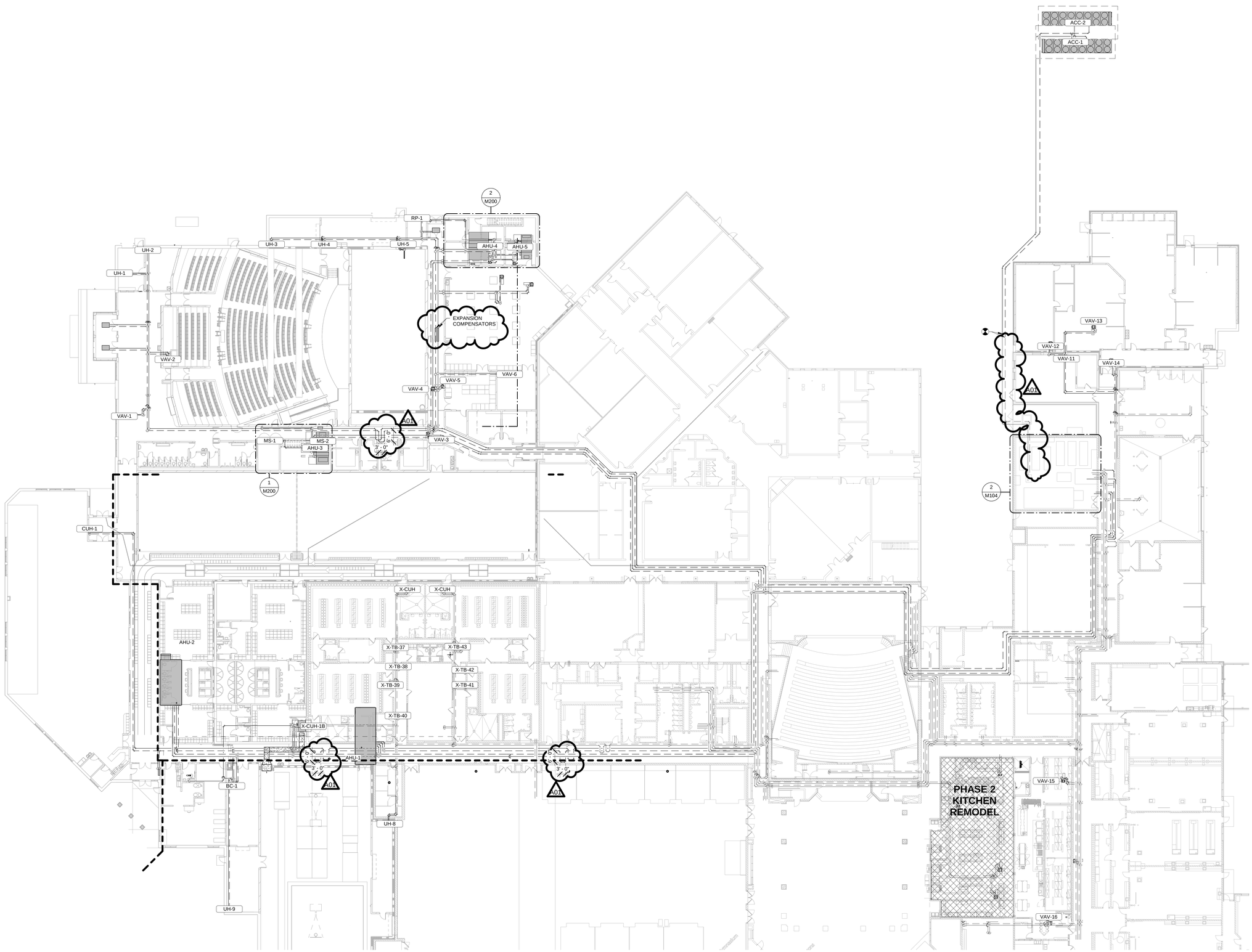
Revisions:

No.	Description	Date
A01	Addendum 1	7/25/2019

Graphic Scale: 0' 2' 4' 8' 12'

Last Update: 7/25/2019 2:39:50 PM

M104



PROJECT NORTH

TRUE NORTH

1 OVERALL MECHANICAL PIPING REMODEL PLAN

1" = 20'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING

Project Location: 1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title: OVERALL MECHANICAL PIPING REMODEL PLAN

HSR Project Number: 18061

Project Date: JULY 2019

Drawn By: Lescher

Key Plan:

Revisions:

No.	Description	Date
A01	Addendum 1	7/25/2019

Graphic Scale: VARIES

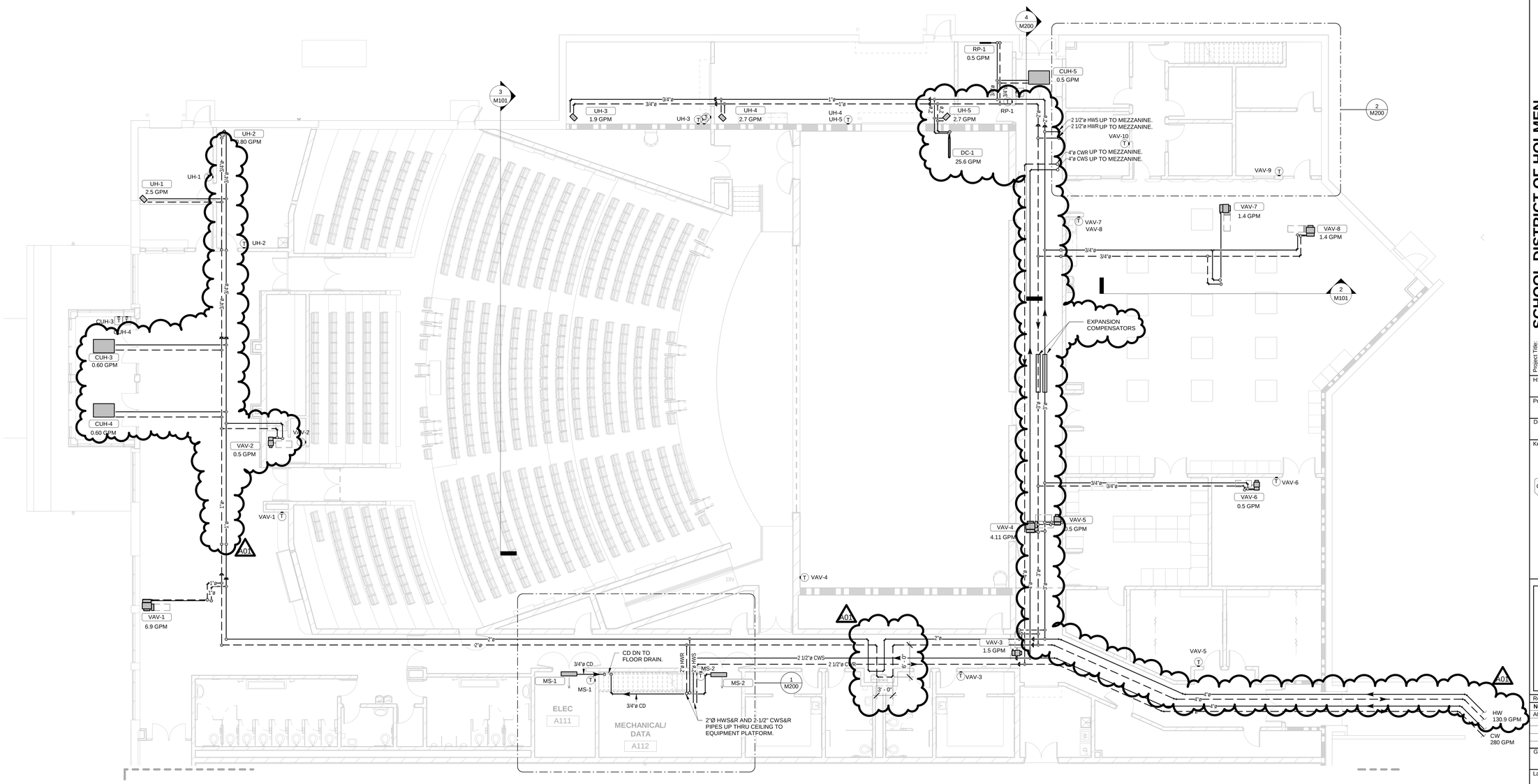
Last Update: 7/25/2019 3:51:10 PM

M106

REFRIGERANT EVACUATION SYSTEM NOTE:

"ELEC A111" ROOM AREA 181 ft² x 11.3 FT = 2045.3 FT³ / 1,000 FT³ = 2.0453
2 LBS. 14 OZ. OF R-410A REFRIGERANT IN MINI-SPLIT / 2.0453 = 1.5 LBS / 1,000 FT³
AMOUNT OF R-410A REFRIGERANT ALLOWED = 25LBS. / 1,000 FT³
* NO EVACUATION SYSTEM REQUIRED.

"MECHANICAL / DATA A112" ROOM AREA 427 ft² x 11.3 FT = 4825.1 FT³ / 1,000 FT³ = 4.8251
2 LBS. 14 OZ. OF R-410A REFRIGERANT IN MINI-SPLIT / 4.8251 = 0.6 LBS / 1,000 FT³
AMOUNT OF R-410A REFRIGERANT ALLOWED = 25LBS. / 1,000 FT³
* NO EVACUATION SYSTEM REQUIRED.



PROJECT NORTH TRUE NORTH

1 MECHANICAL PIPING PLAN - SEG. 'A'

1/8" = 1'-0"

ARCHITECTURE
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INTERIOR DESIGN

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PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **SCHOOL DISTRICT OF HOLMEN**
HIGH SCHOOL ADDITION & REMODELING

Project Location: **1001 McHUGH RD**
HOLMEN, WI 54636

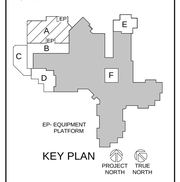
Sheet Title: **MECHANICAL PIPING REMODEL PLAN - SEG. 'A'**

HSR Project Number: **18061**

Project Date: **JULY 2019**

Drawn By: **Lescher**

Key Plan:



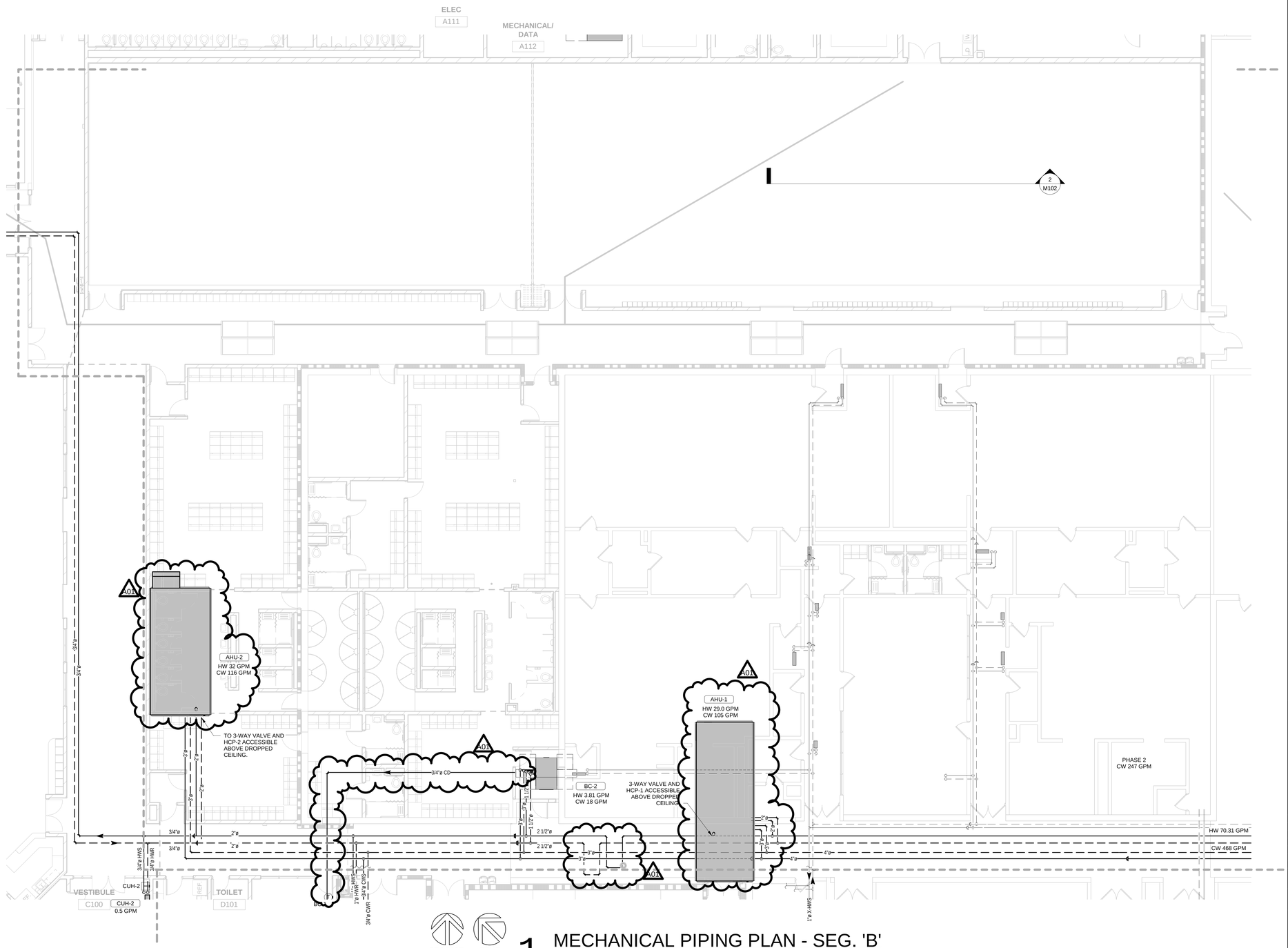
Revisions:

No.	Description	Date
A01	Addendum 1	7/25/2019

Graphic Scale: **VARIES**

Last Update: **7/25/2019 3:52:30 PM**

M107



PROJECT NORTH TRUE NORTH

1 MECHANICAL PIPING PLAN - SEG. 'B'

1/8" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

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100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **SCHOOL DISTRICT OF HOLMEN**
HIGH SCHOOL ADDITION & REMODELING

Project Location: **1001 McHUGH RD**
HOLMEN, WI 54636

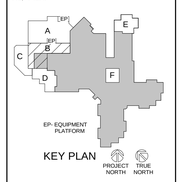
Sheet Title: **MECHANICAL PIPING REMODEL PLAN - SEG. 'B'**

HSR Project Number: **18061**

Project Date: **JULY 2019**

Drawn By: **Lescher**

Key Plan:



KEY PLAN PROJECT NORTH TRUE NORTH

Revisions:

No.	Description	Date
A01	Addendum 1	7/25/2019

Graphic Scale: **VARIES**

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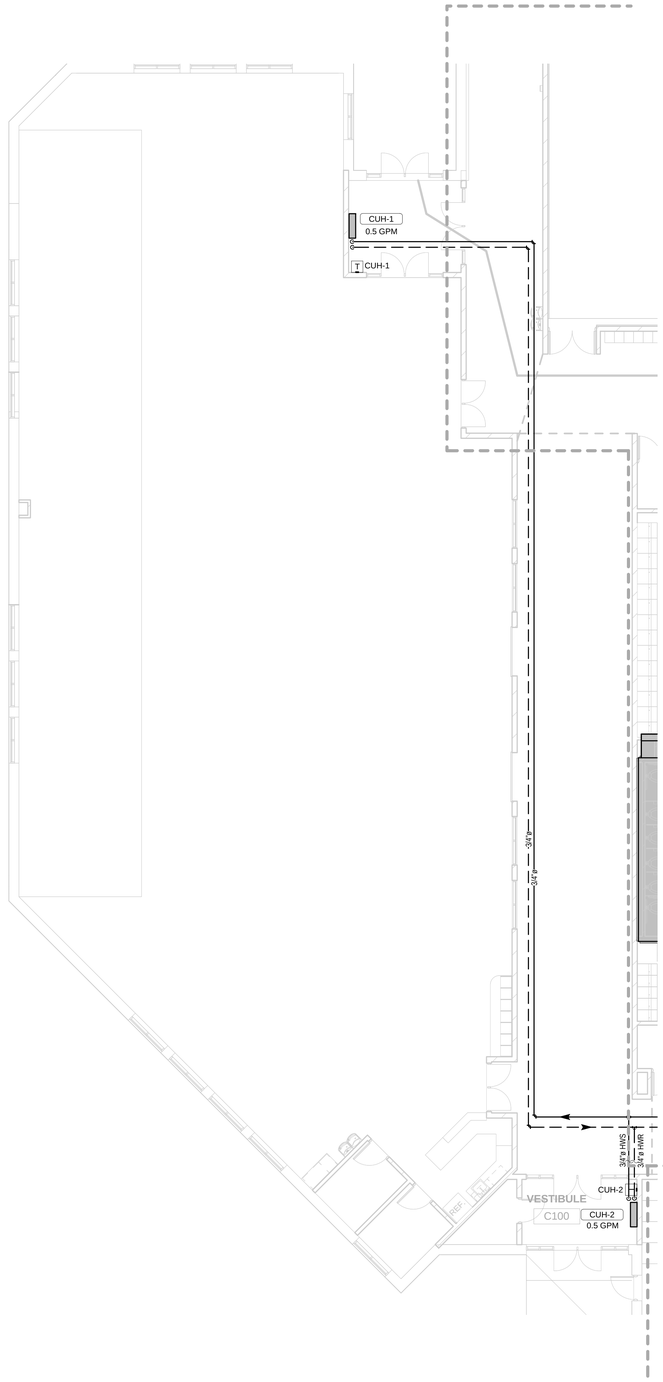
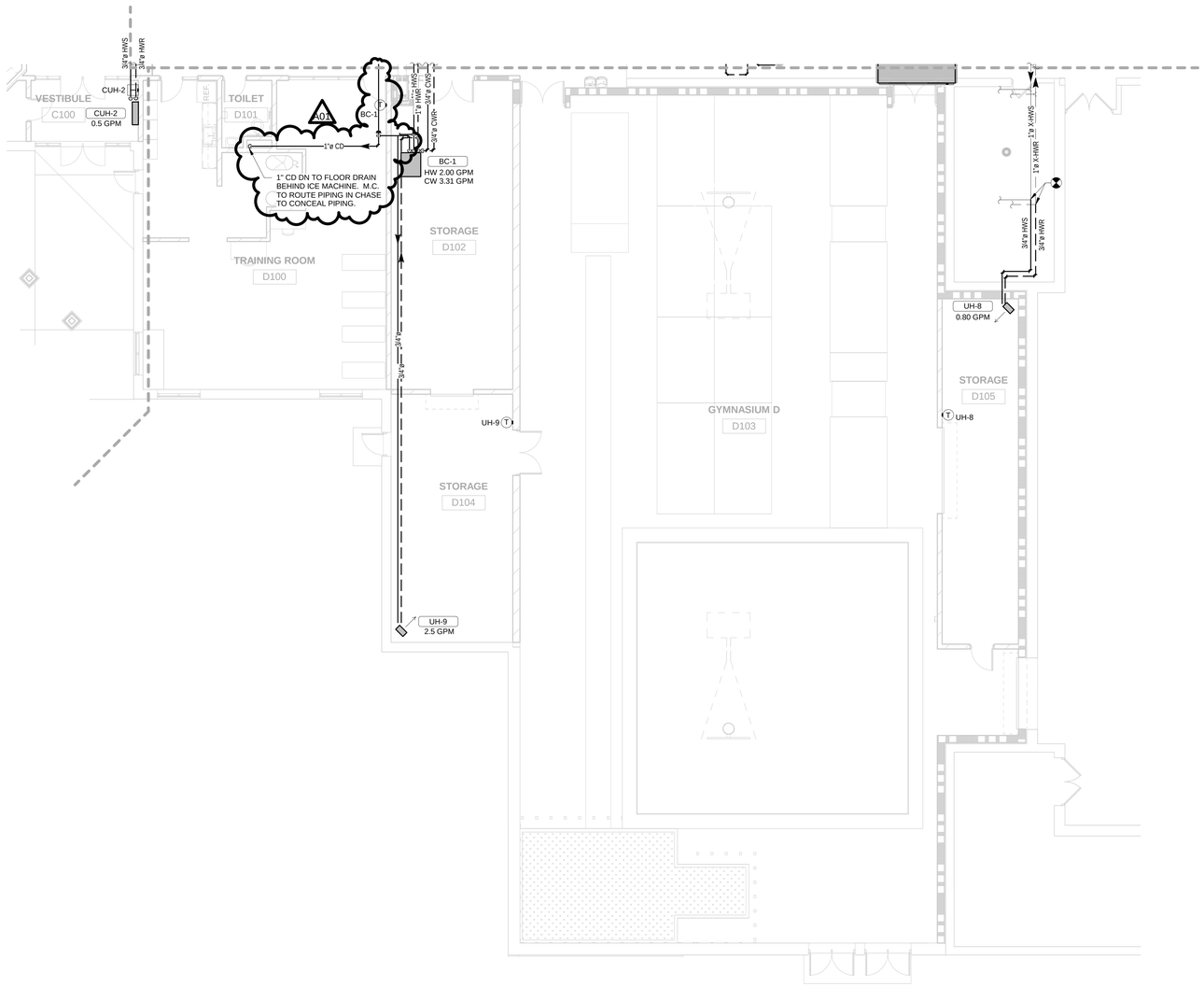
M108



1 MECHANICAL PIPING PLAN - SEG. 'C'

PROJECT NORTH TRUE NORTH

1/8" = 1'-0"



2 MECHANICAL PIPING PLAN - SEG. 'D'

PROJECT NORTH TRUE NORTH

1/8" = 1'-0"

ARCHITECTURE
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INTERIOR DESIGN

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100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING

Project Location: 1001 McHUGH RD
HOLMEN, WI 54636

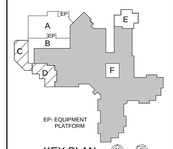
Sheet Title: MECHANICAL PIPING REMODEL PLAN - SEG. 'C' & 'D'

HSR Project Number: 18061

Project Date: JULY 2019

Drawn By: Lescher

Key Plan:



KEY PLAN PROJECT NORTH TRUE NORTH

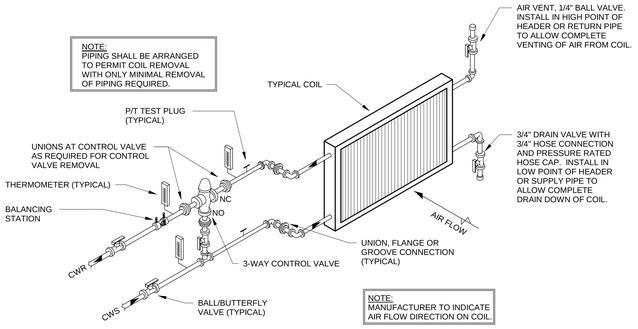
Revisions:

No.	Description	Date
A01	Addendum 1	7/25/2019

Graphic Scale: VARIES

Last Update: 7/25/2019 2:41:56 PM

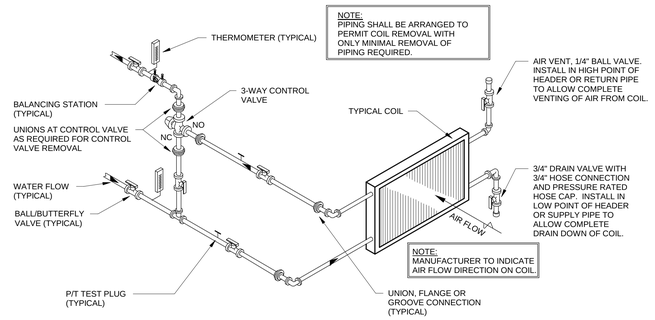
M109



A01

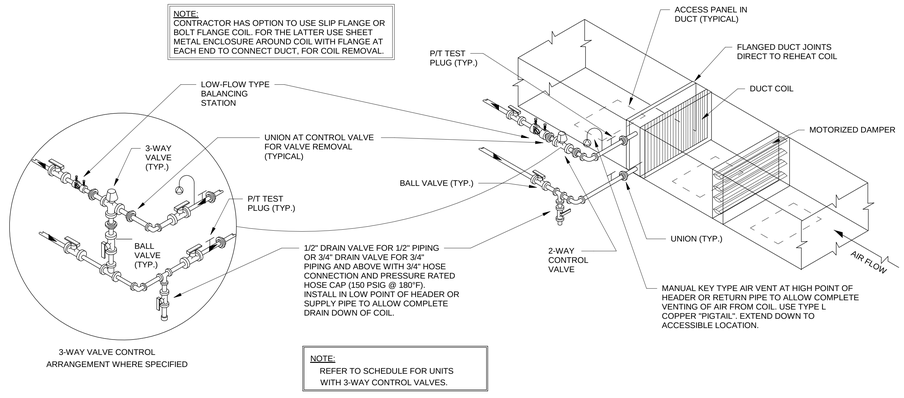
7 CHILLED WATER COIL DETAIL 3-WAY

N.T.S.



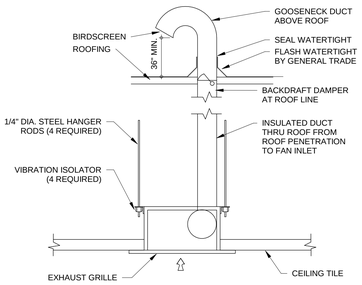
6 HOT WATER COIL DETAIL 3-WAY

N.T.S.



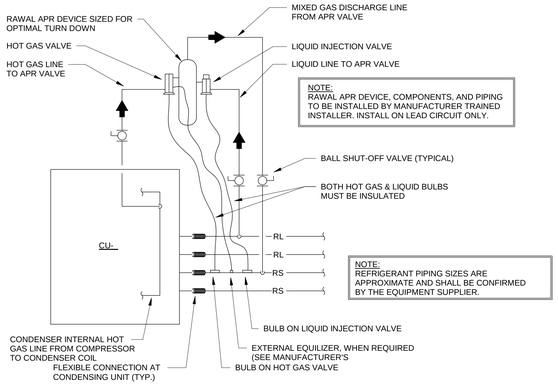
1 TYPICAL HOT WATER REHEAT COIL DETAIL

N.T.S.

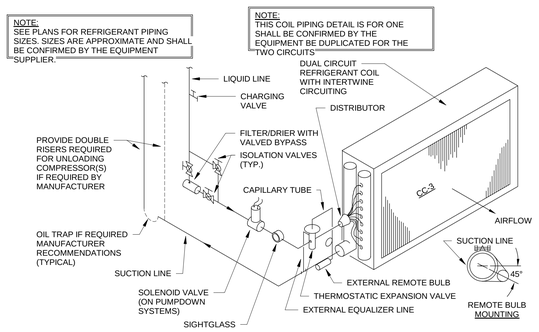


2 CEILING EXHAUST FAN DETAIL

N.T.S.

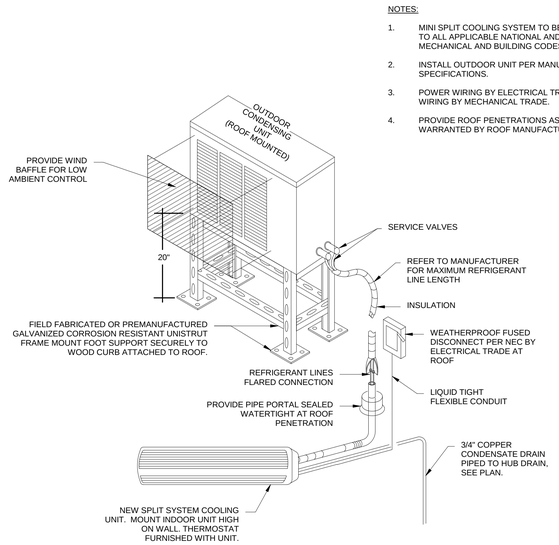


APR VALVE INSTALLATION SCHEMATIC



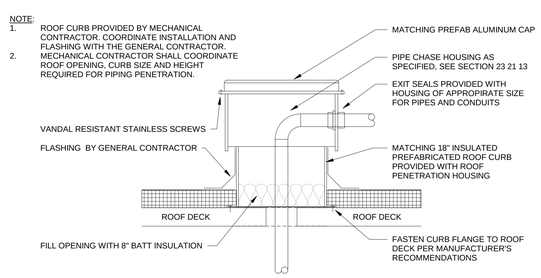
3 REFRIGERANT PIPING SCHEMATIC - APR VALVE

N.T.S.



4 MINI-SPLIT UNIT DETAIL - ROOF MOUNTED

N.T.S.



5 PIPING ROOF PENETRATION DETAIL

N.T.S.

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100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING

Project Location: 1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title: HVAC DETAILS

HSR Project Number: 18061

Project Date: JULY 2019

Drawn By: Lescher

Key Plan:

Revisions:

No.	Description	Date
A01	Addendum 1	7/25/2019

Graphic Scale: VARIES

Last Update: 7/25/2019 2:42:04 PM

M504

ROOFTOP UNITS

Mark	MODEL NUMBER	ENERGERY EFFICIENCY RATION	UNIT WEIGHT	NOMINAL TONS	ENTERING AIR TEMPERATURE (DRY BULB)	UNIT CAPACITY (TOTAL)	UNIT CAPACITY (SEN.)	ELECTRICAL		EVAP. FAN CFM	EVAP. FAN EXTERNAL S.P. IN. W.G.	BRAKE HORSEPOWER	HEAT TYPE	HEATING CAPACITY INPUT (BTUH)	HEATING CAPACITY OUTPUT (BTUH)	CFM	MINIMUM OUTSIDE AIR CFM	FILTER TYPE	ECONOMIZER OPTION	FACTORY ROOF CURB	VIBRATION ISOLATION CURB	REMARKS
								VOLT / PHASE	MCA													
RTU-1	YHC120	12.5	1608	10.0	80°F	112.90 MBH	91.94 MBH	480V 3WPH	22.00	3750	0.25	0.45	GAS	120.00 MBH	121.39 MBH	3750	510	MERV 8	YES	YES	YES	1. UNIT BASED ON PRODUCT BY TRANE. 2. FILTER ACCESS SHALL BE HINGED.

A01

A01

EXHAUST FANS

UNIT NO.	SERVES ROOM	LOCATION	Manufacturer	MODEL	FAN DIAMETER	SOUND LEVEL MAX SPEED	CFM	S.P. DROP INCHES W.G.	FULL LOAD AMPS	HP (VOLT/PHASE)	WEIGHT	COMMENTS
EF-1	A104	ROOF	GREENHECK	CUE-060-E		36	75	0.12		1/200 HP (115/1)	24 LBS	SELECTION BASED ON PRODUCT BY GREENHECK. PROVIDE BACKDRAFT DAMPER AT ROOF LINE.
EF-2	A114 & A115	ROOF	GREENHECK	CUE-070-VG		47	300	0.15		1/15 HP (115/1)	24 LBS	SELECTION BASED ON PRODUCT BY GREENHECK. PROVIDE BACKDRAFT DAMPER AT ROOF LINE.
EF-3	A106, A107 & A109	ROOF	GREENHECK	CUE-099-VG		65	1150	0.15		0.2 HP (115/1)	39 LBS	SELECTION BASED ON PRODUCT BY GREENHECK. PROVIDE BACKDRAFT DAMPER AT ROOF LINE.
EF-4	REFER TO PLAN	ROOF	GREENHECK	CUE-141-VG		74	3000	0.25		0.88 HP (115/1)	76 LBS	SELECTION BASED ON PRODUCT BY GREENHECK. PROVIDE BACKDRAFT DAMPER AT ROOF LINE.
EF-5	TOILET D101	CEILING MOUNTED	GREENHECK	CSP-A			75	0.15		53W (115/1)	26 LBS	SELECTION BASED ON PRODUCT BY GREENHECK. PROVIDE BACKDRAFT DAMPER AT ROOF LINE.
EF-6	DESIGN & INOV. E105	ROOF	GREENHECK	CUE-070-VG		47	200	0.15		1/15 HP (115/1)	24 LBS	SELECTION BASED ON PRODUCT BY GREENHECK. PROVIDE BACKDRAFT DAMPER AT ROOF LINE.
EF-7	METALS LAB E104	ROOF	ENERVEX	RSV 450		56	3300	1.5		2 HP (208/3)	70 LBS	SELECTION BASED ON PRODUCT BY ENERVEX. FAN MOTOR TO BE VARIABLE SPEED.
EF-8	MULTIPURPOSE	ROOF	GREENHECK	CUE-095-VG		58	1000	0.25		1/6 HP (115/1)	36 LBS	SELECTION BASED ON PRODUCT BY GREENHECK. PROVIDE BACKDRAFT DAMPER AT ROOF LINE.
EF-9	KITCHEN HOOD	ROOF	GREENHECK	CUE-200-B		73	5625	0.50		2 HP (208/3)	184 LBS	SELECTION BASED ON PRODUCT BY GREENHECK. BACKDRAFT DAMPER SHALL BE PROVIDED WITH HOOD.
EF-10	TOILET & JANITOR	ROOF	GREENHECK	CUE-060-VG		46	150	0.2		1/10 HP (115/1)	24 LBS	SELECTION BASED ON PRODUCT BY GREENHECK. PROVIDE BACKDRAFT DAMPER AT ROOF LINE.

A01

MAKE-UP AIR UNITS

Mark	MODEL NUMBER	CFM	INPUT MBH	OUTPUT MBH	OUTSIDE AIR (%)	SUPPLY FAN HORSEPOWER (VOLT)	VOLT / PHASE	INDOOR FILTER CABINET	ROOF CURB	REMARKS
MAU-1	DG-108-H10	1080	139.5	128.3	100%	0.75 HP	208V / 3PH	2" MERV 8	YES	SELECTION BASED ON PRODUCT BY GREENHECK. UNIT TO BE MOUNTED ON ROOF CURB AT A MIN. OF 18".
MAU-2	DG-P115-HO5-VFD	3000	317.0	291.6	100%	1-1/2 HP	460V / 3PH	2" MERV 8	NO	SELECTION BASED ON PRODUCT BY GREENHECK. UNIT TO BE SUSPENDED FROM STRUCTURE.
MAU-3	DG-P115-HO5-VG	1250	132.1	121.5	100%	1-1/2 HP	460V 3/PH	2" MERV 8	NO	SELECTION BASED ON PRODUCT BY GREENHECK. UNIT TO BE SUSPENDED FROM STRUCTURE.

A01

DUCTLESS AC UNIT SCHEDULE

UNIT NO.	LOCATION		MANUFACTURER	MODEL NO.	SUPPLY FAN			FILTERS	AIRSIDE	INDOOR UNIT WEIGHT	ELECTRICAL			REFERENCE	REMARKS
	ROOM	NUMBER			AIRFLOW	MOTOR QUANTITY	MOTOR POWER	TYPE	TOTAL CLG. CAP.		MCA	VOLTAGE	PHASE	DETAIL NO.	
MS-1			MITSUBISHI	PUY-A12NHA6	320 CFM	1	30 W	NONE	12000.0 Btu/h	29.00 lbf	0.08 A	208 V	1	4M504	
MS-2			MITSUBISHI	PUY-A12NHA6	320 CFM	1	30 W	NONE	12000.0 Btu/h	29.00 lbf	0.00 A	208 V	1	4M504	
Grand total: 2															

ROOF HOOD SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	SYSTEM	AIRFLOW	THROAT VELOCITY	STATIC PRESS.	DAMPER TYPE	BIRDSCREEN	DIMENSIONS				UNIT WEIGHT	REFERENCE	REMARKS
									THROAT		HOOD				
									LENGTH	WIDTH	LENGTH	WIDTH		DETAIL NO.	
RH-1	Greenheck	FGR-48X60	AHU-3 RELIEF	5800 CFM	290 FPM	0.01 in-wg	GRAVITY	Yes	48"	60"	84"	69"	216.00 lbf	3M100	PROVIDE INSULATED 18" ROOF CURB, CURB SEALS, AND BIRDSCREEN
RH-2	Greenheck	FGR-48X60	AHU-3 RELIEF	5800 CFM	290 FPM	0.01 in-wg	GRAVITY	Yes	48"	60"	84"	69"	216.00 lbf	3M100	PROVIDE INSULATED 18" ROOF CURB, CURB SEALS, AND BIRDSCREEN
RH-3	Greenheck	FGI-72X108	AHU-4 INTAKE	21600 CFM	400 FPM	0.02 in-wg	NONE	Yes	108"	72"	180"	132"	811.00 lbf	3M100	PROVIDE INSULATED 18" ROOF CURB, CURB SEALS, AND BIRDSCREEN
RH-4	Greenheck	FGR-60X60	AHU-1 RELIEF	6500 CFM	260 FPM	0.01 in-wg	GRAVITY	Yes	60"	60"	84"	86"	284.00 lbf	3M100	PROVIDE INSULATED 18" ROOF CURB, CURB SEALS, AND BIRDSCREEN
RH-5	Greenheck	FGR-60X60	AHU-1 RELIEF	6500 CFM	260 FPM	0.01 in-wg	GRAVITY	Yes	60"	60"	84"	86"	284.00 lbf	3M100	PROVIDE INSULATED 18" ROOF CURB, CURB SEALS, AND BIRDSCREEN
RH-6	Greenheck	FGR-60X60	AHU-2 RELIEF	7175 CFM	290 FPM	0.01 in-wg	GRAVITY	Yes	60"	60"	84"	86"	284.00 lbf	3M100	PROVIDE INSULATED 18" ROOF CURB, CURB SEALS, AND BIRDSCREEN
RH-7	Greenheck	FGR-60X60	AHU-2 RELIEF	7175 CFM	290 FPM	0.01 in-wg	GRAVITY	Yes	60"	60"	84"	86"	284.00 lbf	3M100	PROVIDE INSULATED 18" ROOF CURB, CURB SEALS, AND BIRDSCREEN
Grand total: 7															

HYDRONIC PANEL RADIATOR SCHEDULE

UNIT NO.	LOCATION		MANUFACTURER	MODEL NO.	TYPE	HOT WATER HEATING										DIMENSIONS				REFERENCE		REMARKS
						AIRSIDE					HOT WATER											
	ROOM	NUMBER				TOTAL HEATING CAP.	HEATING CAP. PER FOOT BTUH/LF	ENTERING AIR TEMP. DB	ROWS	TUBE DIAMETER	FLOW	ENTERING WATER TEMP	LEAVING WATER TEMP	PRESS. DROP	GLYCOL TYPE	GLYCOL	LENGTH	WIDTH	HEIGHT	BOTTOM OF EQUIPMENT ELEVATION (FIELD VERIFY)	DETAIL NO.	CONTROL VALVE	
RP-1			RUNTAL	RF-1	WALL MOUNTED	364.0 Btu/h	182	60 °F	1	1/2"	0.5 GPM	140 °F	120 °F	0.21 ftH2O	NONE	0%	2' - 0"	0' - 2"	3"	0' - 0"	1M503		

A01

RELIEF FANS

UNIT NO.	SERVES ROOM	LOCATION	Manufacturer	MODEL	BHP	SOUND LEVEL MAX SPEED	CFM	S.P. DROP INCHES W.G.	FULL LOAD AMPS	HP (VOLT/PHASE)	WEIGHT	COMMENTS
RF-4	AHU-4	EQUIPMENT PLATFORM A201	GREENHECK	GB-500-VGD-75	7.07	22 SONES	21600	1.0	11	7.5 (460/3)	584	PROVIDE 24" INSULATED ACOUSTICAL ROOF CURB, CURB SEAL, BIRDSCREEN, GRAVITY BACKDRAFT DAMPER, VFD W/ SHAFT GROUNDING, & DISCONNECT SWITCH
RF-5	AHU-5	EQUIPMENT PLATFORM A201	GREENHECK	GB-240-VGD-15	1.01	13 SONES	5200	0.5	3	1.5 (460/3)	156	PROVIDE 24" INSULATED ACOUSTICAL ROOF CURB, CURB SEAL, BIRDSCREEN, GRAVITY BACKDRAFT DAMPER, VFD W/ SHAFT GROUNDING, & DISCONNECT SWITCH

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
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Consultant:

Project Title:
SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING

Project Location:
1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title:
HVAC SCHEDULES

HSR Project Number:
18061

Project Date:
JULY 2019

Drawn By:
Lescher

Key Plan:

Revisions:

No.	Description	Date
A01	Addendum 1	7/25/2019

Graphic Scale:
VARIES

Last Update:
7/25/2019 2:42:13 PM

M600

CONDESNING BOILERS

UNIT NO.	SERVES	SERIES	MODEL	FUEL TYPE	INPUT MBH	OUTPUT MBH	NET RATING MBH	HP (VOLT / PH)	MOD	THERMAL EFF.	PRESSURE RELIEF VALVE	OPERATING WEIGHT	REMARKS
B-4			EVCA-3000	GAS	3,000	2,910	2,530	2 HP (480V / 3PH)	7.0		30 PSI	3803 LBS	SELECTION BASED ON PRODUCT BY THERMAL SOLUTIONS
B-5			EVCA-3000	GAS	3,000	2,910	2,530	2 HP (480V / 3PH)	7.0		30 PSI	3803 LBS	SELECTION BASED ON PRODUCT BY THERMAL SOLUTIONS

AIR DISTRIBUTION DEVICES

UNIT NO.	SYSEM CLASSIFICATION	SIZES	LOCATION	DAMPER	INLET SIZE	MODEL NUMBER	MOUNTING	COMMENTS
G-1	Supply Air	12"x12"	CEILING	-	6"Ø	SERIES PLQ 4-WAY	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-2	Supply Air	24"x24"	CEILING	-	6"Ø	SERIES PLQ 4-WAY	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-3	Supply Air	24"x24"	CEILING	-	8"Ø	SERIES PLQ 4-WAY	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-4	Supply Air	24"x24"	CEILING	-	10"Ø	SERIES PLQ 4-WAY	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-5	Supply Air	24"x24"	CEILING	-	12"Ø	SERIES PLQ 4-WAY	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-6	Supply Air	24"x24"	CEILING	-	14"Ø	SERIES PLQ 4-WAY	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-7	Supply Air	24"x12"	CEILING	-	8"Ø	5000 LAMINAR	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-9	Supply Air	48"x1"	CEILING	-	12"Ø	DFL-10-1	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-10	Supply Air	48"x1"	CEILING	-	8"Ø	DFL-10-1	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-11	Supply Air	48"x1.5"	CEILING	-	10"Ø	DFL-15-1	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-12	Supply Air	24"x2.5"	CEILING	-	10"Ø	DFL-25-1	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-13	Supply Air	18"Ø	CEILING/DUCT	RADIAL	8"Ø	5MR2	SCREW/DUCT	SELECTION BASED ON PRODUCT BY KRUEGER
G-14	Supply Air	31-1/2"Ø	CEILING/DUCT	RADIAL	14"Ø	5RM2	SCREW/DUCT	SELECTION BASED ON PRODUCT BY KRUEGER
G-15	Exhaust Air	8"x8"	CEILING	-	6"x6"	S580H 3/4" FIXED DEFLECT 35 DEGREE DEFLECTION	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-16	Supply Air	10"x6"	DUCT MOUNTED	-	DUCT DIAMETER	5GMGDR	DUCT MOUNTED	SELECTION BASED ON PRODUCT BY KRUEGER
G-17	Supply Air	30"x12"	DUCT MOUNTED	-	DUCT DIAMETER	5GMGDR	DUCT MOUNTED	SELECTION BASED ON PRODUCT BY KRUEGER
G-18	Supply Air	10"x8"	SIDEWALL	OBD	8"x6"	580H 3/4" SINGLE DEFLECT	SCREW/DUCT	SELECTION BASED ON PRODUCT BY KRUEGER
G-19	Supply Air	20"x8"	DUCT MOUNTED	-	DUCT DIAMETER	5GMGDR	DUCT MOUNTED	SELECTION BASED ON PRODUCT BY KRUEGER
G-20	Supply Air	12"x8"	DUCT MOUNTED	-	DUCT DIAMETER	5GMGDR	DUCT MOUNTED	SELECTION BASED ON PRODUCT BY KRUEGER
G-21	Supply Air	20"x8"	SIDEWALL	-	18"x6"	DMGDR	SCREW	SELECTION BASED ON PRODUCT BY KRUEGER
G-22	Supply Air	14"x12"	SIDEWALL	OBD	12"x10"	580H 3/4" SINGLE DEFLECT	SCREW/DUCT	SELECTION BASED ON PRODUCT BY KRUEGER
G-23	Supply Air	10"x6"	SIDEWALL	OBD	8"x4"	580H 3/4" SINGLE DEFLECT	SCREW/DUCT	SELECTION BASED ON PRODUCT BY KRUEGER
G-24	Supply Air	60"x2"	CEILING	-	10"Ø	DFL-20-1	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-27	Return Air	24"x6"	CEILING	-	22"x4"	S80H 3/4" 35 DEGREE FIXED DEFLECT	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-28	Return Air	24"x12"	CEILING	-		S80H 3/4" 35 DEGREE FIXED DEFLECT	LAY-IN / SCREW	1. SELECTION BASED ON PRODUCT BY KRUEGER. 2. COORDINATE WITH FLOOR PLAN FOR SURFACE MOUNT OR LAY-IN CEILING.
G-29	Return Air	24"x24"	CEILING	-	22"x22"	S80H 3/4" 35 DEGREE FIXED DEFLECT	LAY-IN / SCREW	1. SELECTION BASED ON PRODUCT BY KRUEGER. 2. COORDINATE WITH FLOOR PLAN FOR SURFACE MOUNT OR LAY-IN CEILING.
G-32	Return Air	62"x28"	SIDEWALL	-	60"x26"	S480H 3/4" 35 DEGREE FIXED DEFLECT HEAVY DUTY	SCREW	SELECTION BASED ON PRODUCT BY KRUEGER
G-33	Return Air	50"x28"	SIDEWALL	-	48"x26"	S480H 3/4" 35 DEGREE FIXED DEFLECT HEAVY DUTY	SCREW	SELECTION BASED ON PRODUCT BY KRUEGER
G-34	Return Air	10"x6"	DUCT MOUNTED	-	-	S580H	DUCT MOUNTED	SELECTION BASED ON PRODUCT BY KRUEGER
G-35	Return Air	22"x12"	DUCT MOUNTED	-	20"x10"	S580H 3/4" FIXED DEFLECT	DUCT MOUNTED	SELECTION BASED ON PRODUCT BY KRUEGER
G-37	Return Air	14"x12"	SIDEWALL	-	12"x10"	S480H 3/4" 35 DEGREE FIXED DEFLECT HEAVY DUTY	SCREW	SELECTION BASED ON PRODUCT BY KRUEGER
G-38	Return Air	48"x24"	CEILING	-	46"x22"	S80H 3/4" 35 DEGREE FIXED DEFLECT	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-39	Return Air	32"x30"	SIDEWALL	-	30"x28"	S480H 3/4" 35 DEGREE FIXED DEFLECT HEAVY DUTY	SCREW	SELECTION BASED ON PRODUCT BY KRUEGER
G-40	Return Air	32"x60"	SIDEWALL	-	30"x58"	S480H 3/4" 35 DEGREE FIXED DEFLECT HEAVY DUTY	SCREW	SELECTION BASED ON PRODUCT BY KRUEGER
G-43	Return Air	44"x30"	SIDEWALL	-	42"x28"	S480H 3/4" 35 DEGREE FIXED DEFLECT HEAVY DUTY	SCREW	1. SELELCTION BASED ON PRODUCT BY KRUEGER. 2. GRILLE TO INCLUDE 1" FILTER FRAME.
G-44	Exhaust Air	24"x24"	CEILING	-	22"x22"	S80H	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-45	Exhaust Air	8"x8"	CEILING	-	6"x6"	S80H	LAY-IN	SELECTION BASED ON PRODUCT BY KRUEGER
G-46	Exhaust Air	8"x6"	DUCT MOUNTED	-	6"x4"	S80H 3/4" FIXED DEFLECT	DUCT MOUNTED	SELECTION BASED ON PRODUCT BY KRUEGER
G-47	Supply Air	13-1/2"Ø	CEILING/DUCT	RADIAL	6"Ø	5MR2	SCREW/DUCT	SELECTION BASED ON PRODUCT BY KRUEGER

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VAV BOXES (HOT WATER REHEAT)

Mark	SERVES ROOM	MODEL NO.	MAX CFM	MINIMUM COOLING CFM	MINIMUM HEATING CFM	APD COOLING AIRFLOW (IN H20)	INLET DUCT SIZE	NC LEVEL (BOX) RADIATED	COIL SIZING AND CAPACITY DATA						REMARKS
									COIL TYPE	MAX GPM	COIL PRESSURE DROP	ENTERING HOT WATER TEMPERATURE	ENTERING AIR TEMPERATURE (DRY BULB)	TOTAL MBH INSTALLED	
VAV-1	LOBBY A101	VCWF14	2315	690	1100	0.45	14"Ø	30	2 ROW	3.88	0.64 FT H20	140°F	55°F	44.49	
VAV-2	CONTROL A119	VCWF06	200	60	100	0.07	6"Ø	24	1 ROW	0.5	0.51 FT H20	140°F	55°F	4.00	
VAV-3	REFER TO PLAN	VCWF08	890	260	200	0.39	8"Ø	30	2 ROW	0.75	0.05 FT H20	140°F	55°F	8.00	
VAV-4	STAGE A122	VCWF14	2625	780	780	0.55	14"Ø	30	2 ROW	4.11	0.71 FT H20	140°F	55°F	38.38	
VAV-5	REFER TO PLAN	VCWF10	1190	390	390	0.5	10"Ø	30	2 ROW	0.90	0.15 FT H20	140°F	55°F	14.10	
VAV-6	REFER TO PLAN	VCWF08	750	250	150	0.5	8"Ø	27	1 ROW	0.75	1.3 7FT H20	140°F	55°F	6.67	
VAV-7	BAND A134	VCWF12	1920	575	575	0.73	12"Ø	30	2 ROW	1.37	0.12 FT H20	140°F	55°F	20.10	
VAV-8	BAND A134	VCWF12	1920	575	575	0.73	12"Ø	30	2 ROW	1.37	0.12 FT H20	140°F	55°F	20.10	
VAV-9	REFER TO PLAN	VCWF08	280	105	105	0.05	8"Ø	19	1 ROW	0.50	0.68 FT H20	140°F	55°F	4.72	
VAV-10	REFER TO PLAN	VCWF06	320	100	100	0.110	6"Ø	26	1 ROW	0.50	0.51 FT H20	140°F	55°F	4.00	
VAV-11	COMMUNICATIONS E111	VCWF10	1025	310	310	0.39	10"Ø	27	2 ROW	1.2	0.26 FT H20	140°F	55°F	14.87	
VAV-12	REFER TO PLAN	VCWF10	1070	320	550	0.63	10"Ø	29	3 ROW	1.2	0.35 FT H20	140°F	55°F	22.25	
VAV-13	DESIGN & INNOVATION E105	VCWF12	1450	440	440	0.26	12"Ø	27	1 ROW	0.95	0.60 FT H20	140°F	55°F	11.23	
VAV-14	CORRIDOR E101	VCWF06	200	60	100	0.07	6"Ø	24	1 ROW	0.50	0.51 FT H20	140°F	55°F	3.99	
VAV-15	REFER TO PLAN	VCWF10	1070	320	320	0.42	10"Ø	29	2 ROW	0.77	0.11 FT H20	140°F	55°F	12.50	
VAV-16	REFER TO PLAN	VCWF08	810	250	250	0.58	8"Ø	29	2 ROW	0.95	0.08 FT H20	140°F	55°F	9.76	

HOT WATER UNIT HEATERS

Mark	ROOM NUMBER	QUANTITY	INSTALLED MBH	TYPE	MODEL NUMBER	LOUVER FIN. DIFF.	CFM	ENTERING WATER TEMPERATURE (°F)	WATER TEMPERATURE DROP	GPM	ENTERING AIR TEMPERATURE (DRY BULB)	HORSEPOWER MOTOR / VOLT/PHASE	TEMPERATURE CONTROL	REMARKS
UH-1	A105	1	24.8	HORIZONTAL	S-A25		580	140°F	20°F	2.5	60°F	25 WATTS	T-STAT	SELECTION BASED ON PRODUCT BY TRANE.
UH-2	A104	1	8.0	HORIZONTAL	S-A08		245	140°F	20°F	0.80	60°F	16 WATTS	T-STAT	SELECTION BASED ON PRODUCT BY TRANE.
UH-3	A125	1	18.4	HORIZONTAL	S-A18		500	140°F	20°F	1.9	60°F	16 WATTS	T-STAT	SELECTION BASED ON PRODUCT BY TRANE.
UH-4	A124	1	35.9	HORIZONTAL	S-A36		850	140°F	20°F	3.6	60°F	1/20 HP	T-STAT	SELECTION BASED ON PRODUCT BY TRANE.
UH-5	A124	1	35.9	HORIZONTAL	S-A36		850	140°F	20°F	3.6	60°F	1/20 HP	T-STAT	SELECTION BASED ON PRODUCT BY TRANE.
UH-6	A200	1	8.0	HORIZONTAL	S-A08		245	140°F	20°F	0.80	60°F	16 WATTS	T-STAT	SELECTION BASED ON PRODUCT BY TRANE.
UH-7	A201	1	18.4	HORIZONTAL	S-A18		500	140°F	20°F	1.9	60°F	16 WATTS	T-STAT	SELECTION BASED ON PRODUCT BY TRANE.
UH-8	D105	1	8.0	HORIZONTAL	S-A08		245	140°F	20°F	0.80	60°F	16 WATTS	T-STAT	SELECTION BASED ON PRODUCT BY TRANE.
UH-9	D104	1	24.8	HORIZONTAL	S-A25		580	140°F	20°F	2.5	60°F	25 WATTS	T-STAT	SELECTION BASED ON PRODUCT BY TRANE.

CAB HEATERS

UNIT NO.	ROOM NUMBER	QUANTITY	MBH	MODEL	SIZE	FULL DEPTH	RECESS DEPTH	CABINET		FRONT PANEL SIZE	GPM	CFM	HP (VOLT/PHASE)	COMMENTS
								HEIGHT	LENGTH					
CUH-1	C106	1	11.31	FFFB040	040	10.313"		27"	38.313"		0.5	360	0.13 HP (208V/1PH)	1. SELECTION IS BASED ON PRODUCT BY TRANE. 2. UNIT SHALL BE WALL HUNG
CUH-2	C100	1	11.31	FFFB040	040	10.313"		27"	38.313"		0.5	360	0.13 HP (208V/1PH)	1. SELECTION IS BASED ON PRODUCT BY TRANE. 2. UNIT SHALL BE RECESSED IN CEILING.
CUH-3	A100	1	14.57	FFEB060	060	11"		30"	47"		0.6	425	0.22 HP (208V/1PH)	1. SELECTION IS BASED ON PRODUCT BY TRANE. 2. UNIT SHALL BE RECESSED IN CEILING.
CUH-4	A100	1	14.57	FFEB060	060	11"		30"	47"		0.6	425	0.22 HP (208V/1PH)	1. SELECTION IS BASED ON PRODUCT BY TRANE. 2. UNIT SHALL BE RECESSED IN CEILING.
CUH-5	A128	1	10.29	FFEB030	030	11"		30"	33"		0.5	275	0.13 HP (208V/1PH)	1. SELECTION IS BASED ON PRODUCT BY TRANE. 2. UNIT SHALL BE RECESSED IN CEILING.
CUH-6	E100	1	10.86	FFFB030	030	10.313"		27"	33.313"		0.5	318	0.13 HP (208V/1PH)	1. SELECTION IS BASED ON PRODUCT BY TRANE. 2. UNIT SHALL BE WALL MOUNTED.

LOUVERS

Mark	TYPE	SIZE	FREE AREA (SQ. FT)	MAX. STATIC PRESSURE	MODEL NUMBER	TYPE OF BLADE	CONSTRUCTION				BIRDSCREEN	SERVES	REMARKS
							GALVANIZED STEEL	ALUMINUM	OTHER	FRAME DEPTH			
L-1	INTAKE	114"x72"	30.28	0.02	EHM-601	DRAINABLE		YES		6"	YES	AHU-3	KYNAR CUSTOM COLOR
L-2	INTAKE	56"x34"	9.41	0.04	EHM-601	DRAINABLE		YES		6"	YES	MAU-2	KYNAR CUSTOM COLOR
L-3	INTAKE	40"x22"	2.28	0.04	EHM-601	DRAINABLE		YES		6"	YES	MAU-3	KYNAR CUSTOM COLOR
L-4	INTAKE	84"x36"	9.41	0.04	EHM-601	DRAINABLE		YES		6"	YES	AHU-5	KYNAR CUSTOM COLOR

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PUMPS

UNIT NO.	LOCATION	SERVES	TYPE		MODEL	GPM	TOTAL HEAD	SIZE IMPELLER	HORSEPOWER MOTOR / VOLT/PHASE	COMMENTS
			INLINE	FLOOR MOUNTED						
CWP-1	EXIST MECH. ROOM	CWS		YES	1510	900 GPM	180	8"	75 HP (460V/3PH)	
CWP-2	EXIST MECH. ROOM	CWS		YES	1510	900 GPM	180	8"	75 HP (460V/3PH)	
HWP-1	EXIST MECH. ROOM	HWS		YES	1510	783 GPM	105	11.375"	30 HP (460V/3PH)	
HWP-2	EXIST MECH. ROOM	HWS		YES	1510	783 GPM	105	11.375"	30 HP (460V/3PH)	

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ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title:
SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING

Project Location:
1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title:
HVAC SCHEDULES

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Lescher

Key Plan:

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A01	Addendum 1	7/25/2019

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AIR HANDLING UNIT SCHEDULE

UNIT NO.	LOCATION ROOM	LOCATION NUMBER	MANUFACTURER	MODEL NO.	TYPE	ARRANGEMENT	OUTDOOR AIRFLOW	SUPPLY FAN AIRFLOW	SUPPLY FAN TYPE	SUPPLY FAN EXT. STATIC PRESS.	SUPPLY FAN TOTAL STATIC PRESS.	SUPPLY FAN BRAKE POWER	SUPPLY FAN MOTOR FAN RPM	SUPPLY FAN MOTOR DRIVE TYPE	SUPPLY FAN MOTOR QTY.	SUPPLY FAN MOTOR POWER PER FAN	FILTERS PRE-FILTER TYPE	FILTERS PRE-FILTER AREA	FILTERS PRE-FILTER EFFICIENCY	FILTERS PRESSURE DROP MID-LIFE	CHILLED WATER COOLING COIL AIRSIDE TOTAL CLG. CAP.	AIRSIDE SENSIBLE CLG. CAP.	AIRSIDE EAT DB	AIRSIDE EAT WB	AIRSIDE LAT DB	AIRSIDE LAT WB	AIRSIDE FACE VELOCITY	AIRSIDE PRESS. DROP	AIRSIDE ROWS	CHILLED WATER FLOW	CHILLED WATER EWT	CHILLED WATER LWT	CHILLED WATER PRESS. DROP	CHILLED WATER GLYCOL TYPE	CHILLED WATER GLYCOL	HOT WATER HEATING COIL AIRSIDE HEATING CAP.	AIRSIDE EAT DB	AIRSIDE LAT DB	AIRSIDE FACE VELOCITY	AIRSIDE PRESS. DROP	AIRSIDE ROWS	HOT WATER FLOW	HOT WATER EWT	HOT WATER LWT	HOT WATER PRESS. DROP	HOT WATER GLYCOL TYPE	HOT WATER GLYCOL	UNIT WEIGHT	ELECTRICAL CIRCUIT 1 - SUPPLY FANS MCA	MOP	VOLTAGE	PHASE	ELECTRICAL CIRCUIT 2 - LIGHTS MCA	VOLTAGE	PHASE	REFERENCE CW COIL DETAIL NO.	HW COIL DETAIL NO.	REMARKS
AHU-1			Haakon	CUSTOM			1650 CFM	12945 CFM		0.50 in-wg	4.50 in-wg	0.0 hp	1150	DIRECT	1	15.0 hp	MERV 8 & MERV 13	4 SF		0.00 in-wg	492600.0 Btu/h	349600.0 Btu/h	80 °F	67 °F	55 °F	55 °F	500 FPM	10.61 in-wg	6	105 GPM	45 °F	55 °F	12.70 ftH2O	PROPYLENE	35%	279900.0 Btu/h	75 °F	95 °F	440 FPM	0.15 in-wg	1	29 GPM	140 °F	120 °F	0.20 ftH2O	NONE	16810.00 lbf	21 A	0 A	460 V	3		115 V	1			UNIT TO INCLUDE FACTORY MOUNTED VFD.
AHU-2			Haakon	CUSTOM			1360 CFM	14530 CFM		0.50 in-wg	4.50 in-wg	0.0 hp	1981	DIRECT	1	20.0 hp	MERV 8 & MERV 13	4 SF		0.00 in-wg	456000.0 Btu/h	387600.0 Btu/h	80 °F	67 °F	55 °F	55 °F	490 FPM	0.54 in-wg	6	116 GPM	45 °F	55 °F	17.10 ftH2O	PROPYLENE	35%	310300.0 Btu/h	75 °F	95 °F	490 FPM	0.11 in-wg	1	32 GPM	140 °F	120 °F	0.50 ftH2O	NONE	14290.00 lbf	27 A	0 A	460 V	3		115 V	1			UNIT TO INCLUDE FACTORY MOUNTED VFD.
AHU-3			Trane	CSAA025			1350 CFM	11600 CFM		3.00 in-wg	5.01 in-wg	16.3 hp	2490	DIRECT	2	25.0 hp	2" MERV 8	3 SF		0.55 in-wg	497840.0 Btu/h	345250.0 Btu/h	80 °F	67 °F	53 °F	53 °F	480 FPM	0.93 in-wg	8	84 GPM	45 °F	58 °F	14.33 ftH2O	PROPYLENE	35%	503200.0 Btu/h	60 °F	100 °F	480 FPM	0.23 in-wg	4	25 GPM	140 °F	100 °F	1.03 ftH2O	NONE	4826.00 lbf	77 A	110 A	460 V	3	3 A	115 V	1			UNIT TO INCLUDE FACTORY MOUNTED VFD.
AHU-4			Trane	CSAA050			6190 CFM	21600 CFM		3.00 in-wg	4.76 in-wg	25.1 hp	1620	DIRECT	2	25.0 hp	2" MERV 8	3 SF		0.55 in-wg	926970.0 Btu/h	642870.0 Btu/h	80 °F	67 °F	53 °F	53 °F	450 FPM	0.86 in-wg	8	157 GPM	45 °F	58 °F	8.16 ftH2O	PROPYLENE	35%	937000.0 Btu/h	40 °F	80 °F	440 FPM	0.13 in-wg	2	47 GPM	140 °F	100 °F	1.16 ftH2O	NONE	7662.00 lbf	77 A	110 A	460 V	3	3 A	115 V	1			UNIT TO INCLUDE FACTORY MOUNTED VFD.
AHU-5			Trane	CSIA012			1400 CFM	5200 CFM		3.00 in-wg	4.76 in-wg	5.7 hp	2750	DIRECT	2	7.5 hp	2" MERV 8	3 SF		0.58 in-wg	225580.0 Btu/h	154770.0 Btu/h	80 °F	67 °F	53 °F	53 °F	440 FPM	0.86 in-wg	8	38 GPM	45 °F	58 °F	0.89 ftH2O	PROPYLENE	35%	225600.0 Btu/h	40 °F	80 °F	420 FPM	0.12 in-wg	2	11 GPM	140 °F	100 °F	0.70 ftH2O	NONE	2521.00 lbf	25 A	35 A	460 V	3	3 A	115 V	1			UNIT TO INCLUDE FACTORY MOUNTED VFD.

Grand total: 5

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AIR COOLED CHILLER SCHEDULE

UNIT NO.	LOCATION ROOM	LOCATION NUMBER	MANUFACTURER	MODEL NO.	TYPE	CONDENSER FAN TYPE	CONDENSER FAN DRIVE TYPE	CONDENSER FAN MOTOR QUANTITY	EVAPORATOR COOLING HEAT EXCHANGER LOAD: CHILLED WATER COOLING CAP.	FLOW	MIN. FLOW	ENTERING WATER TEMP.	LEAVING WATER TEMP.	PRESS. DROP	GLYCOL TYPE	GLYCOL	COMPRESSOR TYPE	COMPRESSOR MOTOR QUANTITY	REFRIGERANT TYPE	SUMMER OUTDOOR AIR TEMP.	BASED ON OPERATING CONDITIONS COOLING EFFICIENCY (EER)	COOLING EFFICIENCY (IPLV)	AHRI COOLING EFFICIENCY (EER)	UNIT WEIGHT	ELECTRICAL CIRCUIT 1: CHILLER MCA	MOP	VOLTAGE	PHASE	A-WEIGHTED SOUND PRESSURE dBA @ 30 FT. FREE FIELD	REFERENCE DETAIL NO.	REMARKS
ACC-1			Trane	ASCEND ACR	3 PASS EVAPORATOR		DIRECT	0	300.0 ton	469 GPM		58 °F	44 °F	16.7 ftH2O	PROPYLENE	35%	HC-134a	0	HC-134a	0 °F	10.48	21.72	0	18762 lbf	497 A	600 A	460 V	3	0		PROVIDE SINGLE POINT POWER. FACTORY FLOW SWITCH, LOUVERED PANELS AND ELASTOMEERIC ISOLATORS.
ACC-2			Trane	ASCEND ACR	3 PASS EVAPORATOR		DIRECT	0	300.0 ton	469 GPM		58 °F	44 °F	16.7 ftH2O	PROPYLENE	35%	HC-134a	0	HC-134a	0 °F	10.48	21.72	0	18762 lbf	497 A	600 A	460 V	3	0		PROVIDE SINGLE POINT POWER. FACTORY FLOW SWITCH, LOUVERED PANELS AND ELASTOMEERIC ISOLATORS.

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Unit Acoustics

A-Weighted	Sound Power	Sound Pressure*	Unit Sound Package
100%	98 dBA	71 dBA	Superior
75%	95 dBA	67 dBA	
50%	91 dBA	61 dBA	
25%	90 dBA	60 dBA	

Note: In Accordance with AHRI 370 *Note: at 30 feet in free field

DEDICATED HEAT RECOVERY CHILLER SCHEDULE

UNIT NO.	LOCATION ROOM	LOCATION NUMBER	MANUFACTURER	MODEL NO.	SYSTEM	TYPE	EVAPORATOR COOLING HEAT EXCHANGER CHILLED WATER COOLING CAP.	FLOW	ENTERING WATER TEMP.	LEAVING WATER TEMP.	PRESS. DROP	GLYCOL TYPE	GLYCOL	CONDENSER REJECTION HEAT EXCHANGER HOT WATER REJECTION CAP.	FLOW	ENTERING WATER TEMP	LEAVING WATER TEMP	PRESS. DROP	GLYCOL TYPE	GLYCOL	COMPRESSOR TYPE	UNLOADING STEPS	MOTOR QUANTITY	REFRIGERANT TYPE	COOLING EFFICIENCY (EER)	HEATING EFFICIENCY (COP)	HEATING & COOLING EFFICIENCY (COP)	UNIT WEIGHT	ELECTRICAL MCA	MOP	VOLTAGE	PHASE	REFERENCE DETAIL NO.	REMARKS
DHRC-1			MULTISTACK	MSH95XN HGEA	HEAT RECOVERY	BRAZED PLATE	0.0 Btu/h	89 GPM	56 °F	44 °F	8.50 psi	PROPYLENE	35%	0.0 Btu/h	70 GPM	100 °F	120 °F	4.31 psi	NONE	0%	SCROLL	0	0	R-410A	11.01	4.22	7.44	2100.00 lbf	104 A	150 A	460 V	3		PROVIDE BAS INTEGRATION, UNIT SHALL SIT ON VIBRATION ISOLATION PER Z3 05 48.

Grand total: 1

A01

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AIRFLOW MEASURING STATION SCHEDULE

UNIT NO.	MANUFACTURER	MODEL	TYPE	SYSTEM	MAX AIRFLOW	MAX VELOCITY	MIN AIRFLOW	MIN VELOCITY	DUCT SIZE	REMARKS
AHU-3-AFMS	EBTRON GOLD SERIES	GTC116	DUCT MOUNTED	AHU-3 OUTSIDE AIR	11600 CFM	1290 FPM	1400 CFM	160 FPM	36"x36"-36"x36"	
AHU-4-AFMS	EBTRON GOLD SERIES	GTC116	DUCT MOUNTED	AHU-4 OUTSIDE AIR	21600 CFM	1560 FPM	1600 CFM	120 FPM	50"x40"-50"x40"	
AHU-5-AFMS	EBTRON GOLD SERIES	GTC116	DUCT MOUNTED	AHU-5 OUTSIDE AIR	5200 CFM	1040 FPM	1400 CFM	280 FPM	36"x20"-36"x20"	

Grand total: 3

ELECTRONIC FLOW METER SCHEDULE

UNIT NO.	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL	FLUID PROPERTIES MIN. TEMP.	MAX. TEMP.	MAXIMUM FLOW	GLYCOL TYPE	GLYCOL %	VALVE PROPERTIES NOMINAL DIAMETER	REFERENCE DETAIL NO.	REMARKS
FM-1	Electromagnetic Flow Meter	ONICON	F-3200	STAINLESS	20 °F	180 °F	750 GPM	NONE	0	8"	4M503	PROVIDE SYSTEM-10 BTU METER W/ BAS INTEGRATION.
FM-2	Electromagnetic Flow Meter	ONICON	F-3200	STAINLESS	20 °F	180 °F	900 GPM	PROPYLENE	30	8"	4M503	PROVIDE SYSTEM-10 BTU METER W/ BAS INTEGRATION.

Grand total: 2

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ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: SCHOOL DISTRICT OF HOLMEN
HIGH SCHOOL ADDITION & REMODELING

Project Location: 1001 McHUGH RD
HOLMEN, WI 54636

Sheet Title: HVAC SCHEDULES

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M602

BLOWER COIL SCHEDULE

UNIT NO.	LOCATION ROOM	LOCATION NUMBER	MANUFACTURER	MODEL NO.	TYPE	SUPPLY FAN AIRFLOW	EXT. STATIC PRESS.	TOTAL STATIC PRESS.	FAN BRAKE POWER	FAN RPM	DRIVE TYPE	MOTOR QUANTITY	MOTOR POWER	FILTERS FILTER BOX TYPE	FILTER BOX THICKNESS	FILTER BOX EFFICIENCY	CHILLED WATER COOLING COIL AIRSIDE TOTAL CLG. CAP.	AIRSIDE SENSIBLE CLG. CAP.	AIRSIDE ENTERING AIR TEMP. DB	AIRSIDE ENTERING AIR TEMP. WB	AIRSIDE LEAVING AIR TEMP. DB	AIRSIDE LEAVING AIR TEMP. WB	AIRSIDE PRESS. DROP	CHILLED WATER FLOW	CHILLED WATER ENTERING WATER TEMP	CHILLED WATER LEAVING WATER TEMP	CHILLED WATER PRESSURE DROP	CHILLED WATER GLYCOL TYPE	CHILLED WATER GLYCOL	HOT WATER HEATING COIL (REHEAT) AIRSIDE HEATING CAP.	AIRSIDE ENTERING AIR TEMP. DB	AIRSIDE LEAVING AIR TEMP. DB	HOT WATER FLOW	HOT WATER ENTERING WATER TEMP	HOT WATER LEAVING WATER TEMP	HOT WATER PRESS. DROP	HOT WATER GLYCOL TYPE	HOT WATER GLYCOL	UNIT WEIGHT	ELECTRICAL MCA	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	REFERENCE DETAIL NO.	REFERENCE CONTROL VALVE BY 230993	REMARKS
BC-1			Trane	BCHD036	HORIZONTAL	1200 CFM	0.25 in-wg	0.89 in-wg	0.40 hp	1153	DIRECT	1	1.00 hp	PLEATED	2"	MERV 8	26360.0 Btu/h	25000.0 Btu/h	75 °F	67 °F	60 °F	60 °F	0.45 in-wg	2.5 GPM	45 °F	57 °F	1.98 ftH2O	PROPYLENE	35%	29000.0 Btu/h	70 °F	90 °F	2.0 GPM	140 °F	100 °F	3.94 ftH2O	NONE	0%	173.00 lbf	3 A	460 V	3			UNIT SHALL BE SUSPENDED FROM STRUCTURE, PROVIDE VIBRATION ISOLATION.
BC-2			Trane	BCHD090G	HORIZONTAL	3500 CFM	0.75 in-wg	2.22 in-wg	0.00 hp	1285	DIRECT	1	3.00 hp	PLEATED	2"	MERV 8	61000.0 Btu/h	58000.0 Btu/h	75 °F	67 °F	60 °F	60 °F	1.10 in-wg	18.0 GPM	45 °F	57 °F	7.37 ftH2O	PROPYLENE	35%	75920.0 Btu/h	70 °F	90 °F	4.0 GPM	140 °F	100 °F	0.23 ftH2O	NONE	0%	499.50 lbf	7 A	460 V	3			UNIT SHALL BE SUSPENDED FROM STRUCTURE, PROVIDE VIBRATION ISOLATION. 2-WAY HW CONTROL VALVE, 2-WAY CW CONTROL VALVE

Grand total: 2

A01

BC-1

Acoustics								
Sound Path	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	73 dB	79 dB	74 dB	60 dB	59 dB	58 dB	54 dB	48 dB
Casing	66 dB	69 dB	65 dB	59 dB	56 dB	46 dB	41 dB	38 dB
Discharge	84 dB	85 dB	78 dB	74 dB	74 dB	69 dB	68 dB	64 dB
Inlet plus casing	74 dB	81 dB	75 dB	64 dB	64 dB	59 dB	54 dB	48 dB

BC-2

Acoustics								
Sound Path	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	83 dB	86 dB	67 dB	55 dB	60 dB	50 dB	44 dB	36 dB
Casing	82 dB	77 dB	69 dB	64 dB	65 dB	52 dB	45 dB	39 dB
Discharge	94 dB	91 dB	82 dB	83 dB	87 dB	78 dB	76 dB	72 dB
Inlet plus casing	85 dB	86 dB	71 dB	64 dB	66 dB	54 dB	48 dB	41 dB

CIRCULATING PUMP SCHEDULE

UNIT NO.	LOCATION ROOM	LOCATION NUMBER	MANUFACTURER	MODEL NO.	SYSTEM	PUMP FLOW	PUMP TYPE	PUMP HEAD	PUMP EFFICIENCY	PUMP IMPELLER DIA.	PUMP MOTOR QUANTITY	PUMP MOTOR POWER	PUMP MOTOR RPM	FLUID PROPERTIES TYPE	FLUID PROPERTIES GLYCOL %	UNIT WEIGHT	ELECTRICAL VOLTAGE	ELECTRICAL PHASE	REFERENCE DETAIL NO.	REMARKS
BCP-4			Grundfos	MAGNA3 100-120 F	HOT WATER	291 GPM	Canned rotor circulator pump	10 ftH2O	34.7%		1	2.00 hp	3325	WATER	0	0.00 lbf	208 V	1		
BCP-5			Grundfos	MAGNA3 100-120 F	HOT WATER	291 GPM	Canned rotor circulator pump	10 ftH2O	34.7%		1	2.00 hp	3325	WATER	0	0.00 lbf	208 V	1		
CP-1			Grundfos	MAGNA3 50-80 F	HEAT RECOVERY	89 GPM	Canned rotor circulator pump	10 ftH2O	57.1%		1	0.44 hp	3000	WATER	0	0.00 lbf	208 V	1		
CP-2			Grundfos	MAGNA3 40-80 F	HEAT RECOVERY	70 GPM	Canned rotor circulator pump	10 ftH2O	49.0%		1	0.37 hp	3634	WATER	0	0.00 lbf	208 V	1		
HCP-1			Grundfos	MAGNA1 32-100 F	HOT WATER	30 GPM	Canned rotor circulator pump	10 ftH2O	54.0%		1	0.25 hp	0	WATER	0	0.00 lbf	115 V	1		
HCP-2			Grundfos	MAGNA1 32-100 F	HOT WATER	37 GPM	Canned rotor circulator pump	10 ftH2O	53.0%		1	0.25 hp	0	WATER	0	0.00 lbf	115 V	1		
HCP-3			Grundfos	MAGNA1 32-60 F	HOT WATER	13 GPM	Canned rotor circulator pump	10 ftH2O	50.0%		1	0.14 hp	0	WATER	0	0.00 lbf	115 V	1		
HCP-4			Grundfos	MAGNA1 40-80 F	HOT WATER	47 GPM	Canned rotor circulator pump	10 ftH2O	57.0%		1	0.38 hp	0	WATER	0	0.00 lbf	115 V	1		
HCP-5			Grundfos	MAGNA1 32-60 F	HOT WATER	12 GPM	Canned rotor circulator pump	10 ftH2O	50.0%		1	0.14 hp	0	WATER	0	0.00 lbf	115 V	1		

Grand total: 9

AIR/DIRT SEPARATOR SCHEDULE

UNIT NO.	LOCATION ROOM	LOCATION NUMBER	MANUFACTURER	MODEL NO.	TYPE	SYSTEM	MAX FLOW	MAX PRESSURE DROP	CONNECTION DIAMETER	REFERENCE DETAIL NO.	REMARKS
AS-1			Bell & Gossett	RL-6F	VERTICAL	HOT WATER	850 GPM	1.7 ftH2O	6"		STRAINER TO BE INCLUDED.
AS-2			Bell & Gossett	R-8F	VERTICAL	CHILLED WATER	1300 GPM	1.8 ftH2O	8"		STRAINER TO BE INCLUDED.

Grand total: 2

BUFFER TANK SCHEDULE

UNIT NO.	LOCATION ROOM	LOCATION NUMBER	MANUFACTURER	MODEL NO.	SYSTEM	TANK VOLUME	DIMENSIONS DIAMETER	DIMENSIONS HEIGHT	DIMENSIONS INLET DIAMETER	DIMENSIONS OUTLET DIAMETER	UNIT WEIGHT	REFERENCE DETAIL NO.	REMARKS
BT-1			AMTROL	CWBT200-6-125	CHILLED WATER	200.0 gal	2' - 6"	5' - 3"	6"	6"	2234.00 lbf	11M502	ASME STAMPED

Grand total: 1

EXPANSION TANK SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	SYSTEM	TANK VOLUME	ACCEPTANCE VOLUME	INITIAL TANK FILL PRESSURE	PRESSURE RELIEF	DIMENSIONS DIAMETER	DIMENSIONS HEIGHT	UNIT WEIGHT	REFERENCE DETAIL NO.	REMARKS
ET-1	Bell & Gossett	B-1000	HOT WATER	264.0 gal	264.0 gal	12.0 psi	30.0 psi	3' - 0"	6' - 1"	2869.00 lbf	10M502	BLADDER STYLE
ET-2	Bell & Gossett	B-1000	HOT WATER	264.0 gal	264.0 gal	12.0 psi	30.0 psi	3' - 0"	6' - 1"	2869.00 lbf	10M502	BLADDER STYLE
ET-3	Bell & Gossett	B-1000	HOT WATER	264.0 gal	264.0 gal	12.0 psi	30.0 psi	3' - 0"	6' - 1"	2869.00 lbf	10M502	BLADDER STYLE
ET-4	Bell & Gossett	B-600	CHILLED WATER	158.0 gal	158.0 gal	12.0 psi	30.0 psi	2' - 6"	5' - 4"	1814.00 lbf	10M502	BLADDER STYLE
ET-5	Bell & Gossett	B-600	CHILLED WATER	158.0 gal	158.0 gal	12.0 psi	30.0 psi	2' - 6"	5' - 4"	1814.00 lbf	10M502	BLADDER STYLE

Grand total: 5

SYSTEM FEEDER UNIT SCHEDULE

UNIT NO.	LOCATION ROOM	LOCATION NUMBER	MANUFACTURER	MODEL NO.	SYSTEM	PUMP FLOW	PUMP DISCHARGE PRESSURE	TANK VOLUME	UNIT WEIGHT	ELECTRICAL (PLUG AND CORD) FLA	ELECTRICAL (PLUG AND CORD) VOLTAGE	ELECTRICAL (PLUG AND CORD) PHASE	REFERENCE DETAIL NO.	REMARKS
SFU-1			AXIOM	SF100	HOT WATER	1 GPM	12.0 psig	55.0 gal	460.00 lbf	1 A	120 V	1	10M502	PROVIDE RIA10-1-SAA LOW LEVEL ALARM
SFU-2			AXIOM	SF100	CHILLED WATER	1 GPM	12.0 psig	55.0 gal	460.00 lbf	1 A	120 V	1	10M502	PROVIDE RIA10-1-SAA LOW LEVEL ALARM

Grand total: 2

WATER FILTER UNIT SCHEDULE

UNIT NO.	LOCATION ROOM	LOCATION NUMBER	MANUFACTURER	MODEL NO.	SYSTEM	DESCRIPTION	EFFICIENCY	FILTER FLOW RATE	FILTER QTY.	FILTER LENGTH	TANK VOLUME	DIMENSIONS DIAMETER	DIMENSIONS HEIGHT	DIMENSIONS INLET/OUTLET DIAMETER	UNIT WEIGHT	REFERENCE DETAIL NO.	REMARKS
WFU-1			PARKER	FE6-1-2	HOT WATER	BYPASS FILTER	5 MICRON	30 GPM	6	10"	3.6 gal	0' - 8 11/32"	2' - 9"	2"	115.00 lbf	2M503	INCLUDE EXTRA FILTER SETS PER SPECIFICATION. INCLUDE FLOOR MOUNTING LEGS.
WFU-2			PARKER	FE6-1-2	CHILLED WATER	BYPASS FILTER	5 MICRON	30 GPM	6	10"	3.6 gal	0' - 8 11/32"	2' - 9"	2"	115.00 lbf	2M503	INCLUDE EXTRA FILTER SETS PER SPECIFICATION. INCLUDE FLOOR MOUNTING LEGS.

Grand total: 2

DESTRATIFICATION FANS

UNIT. NO.	MANUFACTURER	MODEL	FAN TYPE	LOCATION	dB(A) @ 35 FT /H50 25 FT / H30	WEIGHT LBS.	COVERAGE AREA	MAX CFM	MAX RPM	ELECTRICAL (TWIST LOCK CORD AND PLUG) FULL LOAD AMPS	ELECTRICAL (TWIST LOCK CORD AND PLUG) VOLTAGE	VARIABLE SPEED CONTROLLER	SAFETY CABLE	COLOR	REMARKS
DF-1	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-2	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-3	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-4	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-5	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-6	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-7	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-8	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-9	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-10	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-11	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-12	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-13	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-14	ZOO FANS	H30 AC115		SUSPENDED CEILING				670			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-15	ZOO FANS	IC30-MF Silent	INLINE	ABOVE DROPPED CEILING				530			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-16	ZOO FANS	IC30-MF Silent	INLINE	ABOVE DROPPED CEILING				530			(115v/1ph)	AVST SERIES	Yes	WHITE	
DF-17	ZOO FANS	IC30-MF Silent	INLINE	ABOVE DROPPED CEILING				530			(115v/1ph)	AVST SERIES	Yes	WHITE	

Grand total: 17

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INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

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Project Location: 1001 McHUGH RD HOLMEN, WI 54636

Sheet Title: HVAC SCHEDULES

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