Addendum No. 1 September 27, 2021

Project: Harrisburg Middle School No. 3

Harrisburg, South Dakota

Architecture Incorporated Project #2903

Architect: Architecture Incorporated

Letting: Thursday, October 7, 2021

2:00 PM

Location: Community Center Conference Room at the Harrisburg School District Administration

Offices, 200 Willow Street, Harrisburg, South Dakota 57032. (Enter from southeast

community center entrance).

Scope of this Addendum:

To all bidders and all others to whom drawings and specifications have been issued by Architecture Incorporated, this Addendum forms a part of the Contract Documents. Acknowledge receipt of this addendum by listing its number and date in the bidder's Form of Proposal. Failure to do so may subject bidder to disqualification. This addendum modifies the drawings and specifications as follows:

GENERAL ITEMS:

1) TABLE OF CONTENTS

- a) Add SECTION 101419 DIMENSIONAL LETTER SIGNAGE, pages 1 4, attached to this addendum.
- b) There is no SECTION 321817 ATHLETIC TRACK MARKING & PAINTING associated with this project and it can be struck from the Table of Contents.
- 2) SECTION 072419 WATER-DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)
 - a) Replace Article 2.2.F.6. with the following:
 - 6. Foam Shapes: Provide with profiles and dimensions indicated on the Drawings.
 - a. Furnish and install 2" thick EIFS at insulated steel stud walls.
 - b. Furnish and install 3" thick EIFS at concrete masonry unit walls.

3) SECTION 088000 - GLAZING

- a) Disregard all references to utilizing fully-tempered glass as plies of laminated glass. Replace Article 2.11.A. with the following:
 - A. Glass Type: Clear, laminated glass with two plies of [float glass] [heat-strengthened float glass].

4) <u>SECTION 101419 - DIMENSIONAL LETTER SIGNAGE</u>

a) Reference attached Specification Section 101419 – Dimensional Letter Signage, pages 1 – 4, for signage included in the project.

5) SECTION 102239 - FOLDING PANEL PARTITIONS

- a) Replace Article 2.2.A.1. with the following:
 - 1. Basis-of-Design Product: [Hufcor 642 Series; Electric].
- b) Replace Article 2.2.H. with the following:
 - H. Panel Thickness: [4 inches (102 mm)].

6) <u>SECTION 104413 – FIRE PROTECTION CABINETS</u>

- a) Add Article 2.1.C.2. as follows:
 - 2. Basis-of-Design Product for [Semi-Recessed Cabinet in Kitchen]: Provide semi-recessed units based on JL Industries [Ambassador Series Semi-Recessed Model 2017] painted steel fire extinguisher cabinet.
 - a. Rolled-Edge Trim: [2 1/2-inch] backbend depth, unless indicated otherwise.
 - 1) Size cabinet to properly accommodate fire extinguisher.
 - b. Door Style: Based on JL Industries [Type V (vertical duo)] glazed door.
 - c. Glazing: [Clear tempered glass].
 - d. Color: [White].
 - e. Application: Provide at Kitchen only.

7) <u>SECTION 104416 – FIRE EXTINGUISHERS</u>

- a) Add Article 2.2.A.3. as follows:
 - 3. Purple-K Dry-Chemical Type in Aluminum Container: UL-rated 120-B:C, 15-lb nominal capacity, with potassium bicarbonate-based dry chemical in enameled-aluminum container.
 - a. For use in the Kitchen only.

8) <u>SECTION 114000 – FOOD SERVICE EQUIPMENT</u>

a) Equipment Item #35: Plastic shelving unit size to be [24" x 48"]; disregard all references to plastic shelving unit with 24" x 60" size.

9) SECTION 126100 – FIXED AUDIENCE SEATING

- a) Provide a total of four hundred ninety five (495) seats in Auditorium A102 as indicated per the updated seating layout on revised drawing Sheet 4.70, dated 9-27-21, attached to the end of Addendum #1.
 - i) Total seating count shall be comprised of four hundred seventy four (474) fixed seating units & twenty-one (21) removable seating units, as indicated.
 - (1) Provide portable removable seats at all "*removable*" seat locations; provide a total of twenty-one (21) removable seating units, as indicated.
- b) ADD Article 2.2.F. as follows:
- B. Portable Removable Seats: Basis of Design: Hussey: Clarin Premium Series
 - Folding removable chair. No arm rests. Chair to have upholstered seat, back rest and back of seat.
 - 2. Fabric selection and colors same as fixed seats.
 - 3. Provide portable removable seats at all removable seat locations; reference revised drawing Sheet 4.70 attached to the end of Addendum #1.

10) <u>SECTION 126600 – TELESCOPING STANDS</u>

- a) Replace Article 2.2.B.1. with the following:
 - 1. Length: Overall length to be 83'-0"; 81-0" platform length plus end rails; 3 equal sections; 12 Rows high (@ 24" spacing).

11) SHEET 1.20 - CODE PLAN

a) Change Code to 2018 International Building Code.

12) SHEET 2.31 – SITE PLAN-AREA A

- a) Bike racks shall be furnished and installed by the <u>Contractor</u> as a part of this Project, as specified per Section 129300 "Site and Street Furnishings".
 - i) Disregard all plan notes stating that bike racks are BY OWNER.

13) SHEET 2.32 – SITE PLAN-AREA B

- a) Bike racks shall be furnished and installed by the <u>Contractor</u> as a part of this Project, as specified per Section 129300 "*Site and Street Furnishings*".
 - i) Disregard all plan notes stating that bike racks are BY OWNER.

14) SHEET 2.34 – SITE PLAN-AREA D

- a) Bike racks shall be furnished and installed by the <u>Contractor</u> as a part of this Project, as specified per Section 129300 "*Site and Street Furnishings*".
 - i) Disregard all plan notes stating that bike racks are BY OWNER.

15) SHEET 4.11 – FLOOR PLAN – AREA A

- a) The gymnasium divider curtain shall be furnished and installed by the <u>Contractor</u> as a part of this Project, as specified per Section 116623 "Gymnasium Equipment".
 - i) Disregard all plan notes stating that the gym divider curtain is BY OWNER.
- b) The overall length of the bleachers in Gym A108 shall be 83'-0". The bleachers shall be comprised of three (3) equal sections with an 81-0" overall platform length (plus end rails).
 - i) Reference Section 126600 "Telescoping Stands" for additional information.
- c) Omit the sink in Office A130.
- d) Reference attached supplemental drawing SD6 dated September 27, 2021 for Semi-Recessed Fire Extinguisher Cabinet in Hall A134.
- e) Omit the sink in Office A130.
- f) Disregard total seat count of 508 seats shown on Sheet 4.11. Reference revised architectural drawing Sheet 4.70, dated 9-27-21, attached to the end of this addendum for seat count clarifications.
- g) Provide continuous wall-mounted steel pipe handrails along the Type D2 masonry walls that flank upper seating rows K thru R in Auditorium A102.
 - i) Reference supplemental drawing SD5, dated September 27, 2021, attached to the end of this addendum for additional information.

16) SHEET 4.12 – FLOOR PLAN – AREA B

- a) Reference attached supplemental drawing SD7 dated September 27, 2021 for Semi-Recessed Fire Extinguisher Cabinet in Commons B157.
- b) Reference attached supplemental drawing SD8 dated September 27, 2021 for Semi-Recessed Fire Extinguisher Cabinet in B110 Wait.
- c) Reference attached supplemental drawing SD9 dated September 27, 2021 for Semi-Recessed Fire Extinguisher Cabinet with class K wet chemical fire extinguisher in Kitchen B154.
- d) Reference attached supplemental drawing SD10 dated September 27, 2021 for Wall-Mounted Fire Extinguisher Cabinet in Receiving B147.
- e) Provide a semi-recessed fire extinguisher cabinet in Hall B154A adjacent to borrowed lite Type 3.

17) SHEET 4.13 – FLOOR PLAN – AREA C

a) Reference attached supplemental drawing SD11 dated September 27, 2021 for Semi-Recessed Fire Extinguisher Cabinet in Hall C100.

18) SHEET 4.14 – FLOOR PLAN – AREA D

- a) CLARIFICATION: The Contractor shall include furnishing and installing concrete stoops outside of doors D120 and D122 under the Base Bid. As such, the Contractor should not include furnishing and installing concrete stoops outside of doors D120 and D122 in the cost of ADD Alternate #1.
- b) CLARIFICATION: The Contractor shall include furnishing and installing the Semi-Recessed Fire Extinguisher Cabinet outside of Tutor D113A under the Base Bid. As such, the Contractor should not include furnishing and installing Semi-Recessed Fire Extinguisher Cabinet in Hall D122 in the cost of ADD Alternate #1.
- c) Reference attached supplemental drawing SD12 dated September 27, 2021 for Semi-Recessed Fire Extinguisher Cabinet in Hall D119.

19) SHEET 4.14 – FLOOR PLAN – AREA E

a) Reference attached supplemental drawing SD13 dated September 27, 2021 for Semi-Recessed Fire Extinguisher Cabinet in Hall E126.

20) SHEET 4.16 – PENTHOUSE PLAN – AREA A

a) Penthouse – Area A: Furnish and install 4" concrete pads with fiber mesh reinforcing by G.C. at each air handling units 1 – 5. Verify exact size and location with mechanical contractor. Reference Drawing 8.55 – Mezzanine Floor Plans – Ventilation and A/C for air handling unit locations.

21) SHEET 4.20 – FINISH PLAN – AREA A

- a) Omit the sink in Office A130.
- b) CLARIFICATION regarding Finish Plan General Note G:
 - i) Marker boards and tack boards shall be furnished by the Owner and installed by the Contractor; the Contractor shall also provide backing as indicated.
 - ii) Smartboards (i.e. monitors) will be furnished and installed by the Owner; the Contractor shall provide backing as indicated.

22) <u>SHEET 4.21 – FINISH PLAN – AREA B</u>

- a) CLARIFICATION regarding Finish Plan General Note G:
 - i) Marker boards and tack boards shall be furnished by the Owner and installed by the Contractor; the Contractor shall also provide backing as indicated.
 - ii) Smartboards (i.e. monitors) will be furnished and installed by the Owner; the Contractor shall provide backing as indicated.

23) <u>SHEET 4.21A – FINISH PLAN – AREA B ALTERNATE</u>

- a) CLARIFICATION regarding Finish Plan General Note G:
 - i) Marker boards and tack boards shall be furnished by the Owner and installed by the Contractor; the Contractor shall also provide backing as indicated.
 - ii) Smartboards (i.e. monitors) will be furnished and installed by the Owner; the Contractor shall provide backing as indicated.

24) SHEET 4.22 – FINISH PLAN – AREA C

- a) Chase C136: Omit reference to FRP in the chase; not required.
- b) CLARIFICATION regarding Finish Plan General Note G:
 - i) Marker boards and tack boards shall be furnished by the Owner and installed by the Contractor; the Contractor shall also provide backing as indicated.
 - ii) Smartboards (i.e. monitors) will be furnished and installed by the Owner; the Contractor shall provide backing as indicated.

25) SHEET 4.23 - FINISH PLAN - AREA D

- a) Chase D110: Omit reference to FRP in the chase; not required.
- b) CLARIFICATION regarding Finish Plan General Note G:
 - i) Marker boards and tack boards shall be furnished by the Owner and installed by the Contractor; the Contractor shall also provide backing as indicated.
 - ii) Smartboards (i.e. monitors) will be furnished and installed by the Owner; the Contractor shall provide backing as indicated.

26) SHEET 4.24 – FINISH PLAN – AREA E

- a) Chase E138: Omit reference to FRP in the chase; not required.
- b) CLARIFICATION regarding Finish Plan General Note G:
 - i) Marker boards and tack boards shall be furnished by the Owner and installed by the Contractor; the Contractor shall also provide backing as indicated.
 - ii) Smartboards (i.e. monitors) will be furnished and installed by the Owner; the Contractor shall provide backing as indicated.

27) SHEET 4.31 – DOOR DETAILS

- a) Borrowed lite Type 2A: Frame shall have 2" head and 3'-6" high glass.
- b) Borrowed lite Type 4A: Frame shall have 2" head and 3'-6" high glass. Sill shall be installed at 3'-4" above finished floor.

- c) Borrowed lite Type 5A: Change frame material to ALUM.
- d) Insert the following information into the Borrowed Lite Types Schedule at Frame Type 5B:

Matl.	<u>Glass</u>	Head Detail	Jamb Detail	Sill Detail
HM 1/4	" Clear	1 /4.31	2 /4.31	3 /4.31

28) SHEET 4.37 – PLAN DETAILS

a) Detail 9/4.37: Reference detail 17/3.62 Steel Beam Bearing @ Operable Partition Support Beam for steel stud framing for the Operable Partitions.

29) SHEET 4.40 – ENLARGED PLANS

- a) Chase C136: Omit reference to FRP in the chase; not required.
- b) CLARIFICATION: The Contractor shall furnish and install 12" x 12" x 60" metal lockers at all locations originally shown per the Enlarged Locker Room Plan on Sheet 4.40 to receive 12" x 12" x 15" (4 tier) lockers.
 - i) Reference revised architectural drawing Sheet 4.53, revision dated 9-27-21, attached to the end of Addendum #1 for additional information.
- c) Reference supplemental drawing SD-14, dated 9-27-21, attached to the end of addendum #1 for revision / clarification regarding the concealed wood backing location(s) for marker boards and tack boards.
 - i) CLARIFICATION: Marker boards and tack boards shall be furnished by the Owner and installed by the Contractor, as noted per the Finish Plans. Smartboards (i.e. monitors) will be furnished and installed by the Owner; the Contractor shall provide backing.

30) SHEET 4.41 – ENLARGED PLANS

- a) Chase D110 and Chase E138: Omit reference to FRP in the chases; not required.
- b) Enlarged Plans of Toilet D100A, D100B and D100C; reference SD4, dated September 27, 2021, attached to the end of Addendum #1.

31) SHEET 4.52 – INTERIOR ELEVATIONS

- a) 1/4.52 A108 NORTH ELEVATION: Raise the bottom of all tectum wall panels to 15'-0".
- b) 2/4.52 A108 EAST ELEVATION: Raise the bottom of all tectum wall panels to 15'-0".
- c) 3/4.52 A108 SOUTH ELEVATION: Raise the bottom of all tectum wall panels to 15'-0".

32) SHEET 4.53 – INTERIOR ELEVATIONS

- a) 1/4.53 A108 WEST ELEVATION:
 - i) Raise the bottom of all tectum wall panels to 15'-0".
 - ii) The painted mural by Owner will be centered above the basketball backstop.
 - iii) Disregard / omit the 8' x 6' rectangle located between the 4th and 5th precast panels from the south.
- b) The Contractor shall furnish and install 12" x 12" x 60" metal lockers at locations where 12" x 12" x 15" (4 tier) lockers were originally identified; reference interior elevations 2, 3, 4, 6, 7 & 8 / 4.53.
 - i) See revised architectural drawing Sheet 4.53, revision dated 9-27-21, attached to the end of Addendum #1 for additional information.

33) <u>SHEET 4.70 – FURNITURE PLAN – AREA A</u>

- a) CLARIFICATION: Auditorium Seating Count: Provide a total of four hundred ninety five (495) seats in Auditorium A102 as indicated per the updated seating layout on revised drawing Sheet 4.70, dated 9-27-21, attached to the end of Addendum #1.
 - i) Total seating count shall be comprised of four hundred seventy four (474) fixed seating units & twenty-one (21) removable seating units, as indicated.
 - (1) Provide portable removable seats at all "*removable*" seat locations; provide a total of twenty-one (21) removable seating units, as indicated.
- b) CLARIFICATION: Furnish and install two (2) U-shaped permanent pipe guard rails in front of the removable seats in seating Row H as shown on Sheet 4.70.
- c) CLARIFICATION: Furnish and install two (2) straight permanent pipe guard rails in front of the end-of-row seats in seating Row K (i.e. behind the removable seats in seating Row J) as shown on Sheet 4.70.
- d) Provide continuous wall-mounted steel pipe handrails along the Type D2 masonry walls that flank upper seating rows K thru R in Auditorium A102.
 - i) Reference supplemental drawing SD5, dated September 27, 2021, attached to the end of this addendum for additional information.

34) SHEET 5.10 – EXTERIOR ELEVATIONS

- a) Elevation A/5.10: Exterior signage shall be furnished and installed by the General Contractor. Reference Section 101419 "*Dimensional Letter Signage*" attached to the end of addendum #1 for additional information.
 - i) ---- indicates four letters.
 - ii) #### indicates four street address numbers.

- b) Detail 1/5.10: Provide 1 inch deep V-groove as shown on Detail 1/5.10. EIFS thickness shall be 2" thick at insulated steel stud walls and 3" thick at concrete masonry unit walls.
- c) Area A North Elevation: Change BRG 0" to BRL 0"; change BRG 8" to BRL 8".
- d) Area A West Elevation: Change BRG 8" to BRL 8"; change BRG -8" to BRL -8".

35) SHEET 5.11 – EXTERIOR ELEVATIONS

- a) Area B North Elevation: Add **BRL -8**".
- b) Area B South Elevation: Add **BRL -8**".
- c) Area B South Elevation Lobby: Add **BRL -8**".

36) SHEET 5.13 – EXTERIOR ELEVATIONS

- a) Area B East Elevation Commons: Add **BRL -8**".
- b) Area B East Elevation Media Center: Add **BRL -8**".
- c) Area D East Elevation: Add **BRL -8**".

37) SHEET 5.20 – BUILDING SECTIONS

a) Section 2/5.20: The finished floor elevation in Penthouse A200 shall be 12'-4".

38) SHEET 5.22 – BUILDING SECTIONS

a) Section 2/5.22: Change Penthouse finish floor (TOC) to 12'-4". Change bearing height of corefloor at PE Classroom A112 roof structure to 11'-4". Change corefloor thickness to 8" with 4" topping.

39) SHEET 5.24 – STAIR AND RAMP SECTIONS AND DETAILS

- a) Stair Section Area A Penthouse: The finished floor elevation in Penthouse A200 shall be 12'-4".
- b) Add the following note to Stair Section 4/5.24:

INSTALL 5/8" GYPSUM BOARD OVER 7/8" HAT CHANNELS AT UNDERSIDE OF STAIRS WHERE EXPOSED TO OFFICE A128. PAINT EXPOSED GYPSUM BOARD.

- c) The stairs shown in section 5 on Sheet 5.24 shall be steel grate treads with open risers. See detail 6/5.24. Likewise, the stairs at all catwalks shall be steel grate treads with open risers.
- d) Detail 8/5.24: Concrete topping shall be 4" except at Storage A201. Concrete topping at Storage A201 shall be 2" concrete topping.
- e) Detail 12/5.24: Change Top of Masonry elevation to 14'-0".
- f) Provide continuous wall-mounted steel pipe handrails along the Type D2 masonry walls that flank upper seating rows K thru R in Auditorium A102 as indicated per supplemental drawing SD5, dated September 27, 2021, attached to the end of this addendum.

40) SHEET 5.25-RAMP & SECTIONS DETAILS

a) Detail 3/5.25 – Omit Concrete Mud Pit detail by General Contractor; Separator Pit shall be provided by the Plumbing Contractor. See Mechanical.

41) SHEET 5.40 - SECTION DETAILS

a) Add the following note to Detail 5/5.40:

2x2 TREATED WOOD FRAMING AT 16" O.C.

- b) Revised Detail 6/5.40: Reference SD3, dated September 27, 2021, attached to the end of Addendum #1.
- c) Detail 9/5.40: Reference Structural Detail 17/3.64 For Concrete End Pour At Corefloor.

42) SHEET 5.42 – SECTION DETAILS

- a) Detail 5/5.42: Reference Structural Detail 6/3.62 for typical joist bearing section.
- b) Revised Detail 6/5.42: Reference SD1, dated September, 2021, attached to the end of Addendum #1.
- c) Detail 7/5.42: Add note "*1-5/8" STEEL STUDS AT 16" O.C.*" at each side of beam for attachment of gypsum board.

43) SHEET 5.43 – SECTION DETAILS

a) Detail 6/5.43: Reference Structural Detail 6/3.62 for typical joist bearing section.

44) SHEET 5.45 – SECTION DETAILS

- a) Detail 4/5.45: Change corefloor bearing to 11'-4". The finished floor elevation of the penthouse shall be 12'-4".
- b) Detail 4/5.45: The finished floor elevation of the penthouse shall be 12'-4".
- c) Revised Detail 5/5.45: Reference SD2, dated September 27, 2021, attached to the end of Addendum #1.

45) SHEET 5.47 – SECTION DETAILS

a) Detail 4/5.47: Reference Structural Detail 6/3.62 for typical joist bearing section.

46) <u>SHEET 5.50 – ROOF PLAN</u>

a) At Computer E122, change corefloor bearing to 12'-0".

47) SHEET 6.10 – REFLECTED CEILING PLAN – AREA A

- a) The ceilings in showers A115, A117, A120, A122 and A150 shall be constructed with 5/8" Exterior Gypsum Soffit Board and shall be finished with a textured polymer coating, as specified per Section 092900.
 - i) Disregard all reference to 5/8" water-resistant gypsum board and painting.
 - ii) Polymer Coating Color: [As selected by Architect].

48) SHEET 6.11 – REFLECTED CEILING PLAN – AREA B

- a) Storage B130: Change ceiling height to 8'-8". Align the ceiling grid with the adjacent FCS Lab B131. Omit reference to Detail 6/6.16. There shall be no bulkhead between Storage B130 and FCS Lab B131.
- b) Changing B124: The ceiling over the shower stall shall be constructed with 5/8" Exterior Gypsum Soffit Board and shall be finished with a textured polymer coating, as specified per Section 092900.

49) SHEET 6.13 – REFLECTED CEILING PLAN – AREA D

a) Add the following note to Detail 8/6.13:

OMIT 5/8" GYPSUM BOARD SHOWN APPLIED DIRECTLY TO THE UNDERSIDE OF HOLLOW CORE AT PRACTICE ROOMS A126 AND A127. PAINT EXPOSED COREFLOOR. ALL EXPOSED HOLLOW CORES JOINTS TO BE FINISHED IN A MANNER THAT LEAVES THEM VISUALLY APPEALING.

MECHANICAL ITEMS:

- 1) SECTION 220400 PLUMBING SUBSECTION 1.16 WATER SOFTENER
 - a) Change model number from "CTM-90-DF" to "CTM-120-DF".

2) GENERAL MECHANICAL DRAWING ITEMS

a) Revise all section callouts on Drawing Sheets 8.50-8.55 to refer to Drawing Sheet 8.56.

3) SHEET 8.10 – LEGENDS & DETAILS

- a) Refer to revised mechanical drawing Sheet 8.10, revision dated 9-27-21, attached to the end of Addendum #1 for the following:
 - i) Revisions made to "WATER HEATER PIPING DETAIL".
 - ii) Add "DOUBLE CATCH BASIN DETAIL".
 - iii) Revisions made to "CABINET UNIT HEATER PIPING DETAIL".

- iv) Revisions made to "UNIT HEATER PIPING DETAIL".
- v) Revisions made to "AHU-7 HEATING/COOLING COIL PIPING DIAGRAM".

4) SHEET 8.21 – FOOTING & FOUNDATION PLAN – AREA B – PLMB & HTG

- a) Refer to revised mechanical drawing Sheet 8.21, revision dated 9-27-21, attached to the end of Addendum #1 for the following:
 - i) Add "GREASE TRAP DETAIL".
 - ii) Add grade CO to match "GREASE TRAP DETAIL" on floor plan.
 - iii) Revise routing for waste for FSK under hood in kitchen to go to the grease trap.
 - iv) Add sand-oil interceptor in lieu of floor drain with sediment bucket, including corresponding vent piping, cleanouts, and pipe routing.
 - v) Revise FSK & FD routing to new sand-oil interceptor, including removal of venting and inclusion of note describing the drains being untrapped and unvented.

5) SHEET 8.25 – FLOOR PLAN – AREA A PLUMBING & HEATING

- a) Refer to revised mechanical drawing Sheet 8.25, revision dated 9-27-21, attached to the end of Addendum #1 for the following:
 - i) Corrected urinal specification for "UR-1" in Toilet A116.

6) SHEET 8.26 – FLOOR PLAN – AREA B – PLUMBING & HEATING

- a) Refer to revised mechanical drawing Sheet 8.26, revision dated 9-27-21, attached to the end of Addendum #1 for the following:
 - i) Corrected pipe sizes in Hall B135.
 - ii) Added pipe sizes in FCS Lab B131.
 - iii) Added pipe sizes in Work B119 and continuing along that domestic branch of piping.
 - iv) Added pipe sizes in Sp Ed B127.
 - v) Corrected keynote to include the dishwasher connection for the sink in Staff B118.
 - vi) Revised location of VTR in FCS Lab B131, Women B121, and Nurse B114.
 - vii) Remove vent piping for FD in Receiving B147, which is no longer trapped or vented. Revise associated keynote.
 - viii) Add sand-oil interceptor, including associated vent pipe revisions, cleanout additions, etc. Refer to detail.
 - ix) Revised HWS/HWR pipe size from Mechanical B141 to UH-B147.
 - i) Revised location of UH-B147.

- ii) Add UB-1 in "Sp Ed B127".
- iii) Corrected roll under sink specification to "SK-9" in Art B132.

7) SHEET 8.31 – ENLARGED PLANS & RISERS – AREA B – PLMB & HTG

- a) Refer to revised mechanical drawing Sheet 8.31, revision dated 9-27-21, attached to the end of Addendum #1 for the following:
 - i) Add keynote for designation of stack economizer.
 - ii) Revise gas size to water heaters to match associated detail.
 - iii) Add more shock absorbers to "Domestic Riser B144/B145/B146".
 - iv) Revise HWS/HWR pipe size out of room to Receiving B147.
 - v) Delete UH-B141.

8) SHEET 8.32 – KITCHEN PLANS – AREA B – PLMB & HTG

- a) Refer to revised mechanical drawing Sheet 8.32, revision dated 9-27-21, attached to the end of Addendum #1 for the following:
 - i) Revise FSK at Kitchen Equipment #9 to be a half grate to match the other FSK's.
 - ii) Revise FD's in "Toilet B154C" and "Wash B156" to be square for tile floor installation to match specifications.
 - iii) Add water hammer arrestor in "Kitchen B154".
 - iv) Correct CW piping to kitchen disposer units to match detail.
 - v) Remove vent piping for FSK in "Receiving B147", which is no longer trapped or vented.
 - vi) Add vent piping for sand-oil interceptor in "Receiving B147".

9) SHEET 8.51 – FLOOR PLAN – AREA B – VENTILATION & A/C

- a) Refer to revised mechanical drawing Sheet 8.51, revision dated 9-27-21, attached to the end of Addendum #1 for the following:
 - i) Delete IH-B141, associated ductwork, and motorized damper.
 - ii) Relocate UH-B147 thermostat.
 - iii) Revise exhaust ductwork routing to "Toilet B158" to avoid fire rated walls.

10) SHEET 8.60 – SCHEDULES

- a) Refer to revised mechanical drawing Sheet 8.60, revision dated 9-27-21, attached to the end of Addendum #1 for the following:
 - i) Water Heater Schedule:

- (1) Remove reference to incorrect sheet number in Remark 4.
- (2) Add Remark 6: PROVIDE WITH AMTROL ST-12 EXPANSION TANK, OR EQUAL.
- (3) Add Remark 7: **PROVIDE CONDENSATE NEUTRALIZER. EXTEND CONDENSATE TO FLOOR DRAIN**.
- ii) Unit Heater Schedule:
 - (1) Delete UH-B141.
 - (2) Revise UH-B147 as shown.
- iii) Plumbing Fixture Schedule:
 - (1) Add SK-9.
 - (2) SK-3: Change REMARKS from ACID RESISTANT P-TRAPS to 17 GA C.P. P-TRAP.

11) SHEET 8.61 – SCHEDULES

- a) Refer to revised mechanical drawing Sheet 8.61, revision dated 9-27-21, attached to the end of Addendum #1 for the following:
 - i) DSS-A109 shall be renamed to DSS-1.
 - ii) CU-1: "MATCHED AHU" shall be revised from DSS-A109 to DSS-1.

ELECTRICAL ITEMS:

- 1) SECTION 260500 RACEWAYS & BOXES
 - a) Add the following paragraph to Article 1.5:
 - B. Electrical Contractor shall furnish and install embedded electrical conduit, electrical box assemblies, and required hardware into the precast wall panels. The Electrical Contractor will provide locations on the precast shop drawing submittal and tradesmen in the precast production plant for this scope of work. Precast Supplier will provide coordination and production schedule with dates for each individual panel requiring electrical so the Electrical Contractor can schedule their workforce accordingly.
- 2) SECTION 277350 SYNCHRONIZED WIRELESS MASTER-SATELLITE TIME SYSTEM
 - a) This system shall be furnished by the Owner. All clocks shall be installed by the Contractor.
- 3) SECTION 277400 COMMUNICATIONS & DATA-PROCESSING EQUIPMENT
 - a) Paragraph 2.3.D.2: The rack in room B143 shall be a 4 post rack.
- 4) SHEET 9.22 FLOOR PLAN AREA "B" LIGHTING
 - a) Room B157: Shift the type "N2" luminaires so that they are located in the display cases.

5) SHEET 9.23 – FLOOR PLAN AREA "B" – POWER & SIGNAL

- a) Room B131: Approximately 30" of base cabinet has moved from the south two labs to the north two labs (see architectural drawings) with the labs shifting south. Adjust electrical devices accordingly and add one additional above counter duplex receptacle at each north lab, connect them to LB2-50,52.
- b) Room B147: Unit heater UH-B147 will be moving to the west of the shown location, see mechanical addendum.

6) SHEET 9.31 – ENLARGED MECH – POWER & SIGNAL

a) Room B141: Delete unit heater UH-B141.

7) SHEET 9.42 – ELECTRICAL SCHEDULES

a) Panel "LB1": The first section shall have 54 circuits. Provide 6 additional 20A/1P spare circuit breakers.

GENERAL APPROVALS:

The following material or equipment furnished by the manufacturers listed, may be substituted as equivalent providing that each item, material, and piece of equipment conforms to the design and requirement of the specifications.

SECTION	ITEM	<u>MANUFACTURER</u>
042000	Unit Masonry Assemblies (Face Brick)	
		Brick Color #1: <i>Interstate Brick</i>
		Color: Platinum
		Brick Color #2: Yankee Hill
		Color: Capital IS; velour & smooth
062023	Interior Finish Carpentry	Showplace
123216	Manufactured Plastic-Laminate-Face Casework	Showplace
123623	Plastic-Laminate-Clad Countertops	Showplace
123661	Simulated Stone Countertops	Showplace
129300	Bike Racks	Performance Sports Systems
220600 - 1.10	Suction Diffusers	Patterson Pump Co.
220600 - 1.11	Expansion Tanks	Patterson Pump Co.

220600 - 1.12	Air Separators	Patterson Pump Co.
220600 - 1.13	Air Vent	Patterson Pump Co.
220600 - 1.20	Automatic Flow Control Valves	HCI
220600 - 1.23	In-Floor Radiant Heating System	Heat Link
230800 - 1.06	Kitchen Hood	CaptiveAire, GreaseMaster
230800 - 1.07/1.08	Duct Free Condensing Unit/Duct Free Fan Coil Unit	Samsung, Bosch
230800 – 1.09	Central Vacuum	Micro Air, A.C.T. Dust Collectors, Oneida Air Systems
230800 - 1.12	Power Roof Ventilators	GreaseMaster
230800 - 1.21	Gas Vent System	DuraVent, Metal-Fab
230800 - 1.31	Fabric Duct System	KE Fibertec, DurkeeSox,

END OF ADDENDUM No. 1

SECTION 101419 - DIMENSIONAL LETTER SIGNAGE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Cast dimensional characters.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For dimensional letter signs.
 - 1. Include fabrication and installation details and attachments to other work.
 - 2. Show sign mounting heights, locations of supplementary supports to be provided by others, and accessories.
 - 3. Show message list, typestyles, graphic elements, and layout for each sign at least [half size]
- C. Samples for Initial Selection: For each type of sign assembly, exposed component, and exposed finish.
 - 1. Include representative Samples of available typestyles and graphic symbols.

1.4 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of signs that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Deterioration of finishes beyond normal weathering.
 - b. Separation or delamination of sheet materials and components.
 - 2. Warranty Period: [Five] years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Thermal Movements: For exterior [fabricated channel dimensional characters], allow for thermal movements from ambient and surface temperature changes.

2.2 DIMENSIONAL CHARACTERS

- A. Cast Characters: Characters with uniform faces, sharp corners, and precisely formed lines and profiles, and as follows:
 - 1. Manufacturers: Subject to compliance with requirements, [available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following]:
 - a. ACE Sign Systems, Inc.
 - b. APCO Graphics, Inc.
 - c. ASI Sign Systems, Inc.
 - d. Gemini Incorporated.
 - e. Metal Arts; Division of L & H Mfg. Co.
 - f. Metallic Arts.
 - g. Seton Identification Products.
 - 2. Character Material: Cast [aluminum].
 - 3. TEXT: Provide the following as identified on the exterior elevations.
 - a. 30" Character height: HARRISBURG
 - b. 24" Character height: ---- MIDDLE SCHOOL; ----- indicates four (4) letters.
 - c. 12" Character height: Four (4) address numbers; indicated #### on the drawings.
 - 4. Thickness: [Manufacturer's standard for size of character]
 - 5. Finishes:
 - a. Integral Aluminum Finish: [Clear anodized].
 - b. Overcoat: [Manufacturer's standard baked-on clear coating].
 - 6. Mounting: [Concealed studs].

2.3 DIMENSIONAL CHARACTER MATERIALS

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

2.4 ACCESSORIES

- A. Fasteners and Anchors: Manufacturer's standard as required for secure anchorage of signage, noncorrosive and compatible with each material joined, and complying with the following:
 - 1. Use concealed fasteners and anchors unless indicated to be exposed.
 - 2. Sign Mounting Fasteners:
 - a. Concealed Studs: Concealed (blind), threaded studs welded or brazed to back of sign material, screwed into back of sign assembly, or screwed into tapped lugs cast integrally into back of cast sign material, unless otherwise indicated.

2.5 FABRICATION

- A. General: Provide manufacturer's standard sign assemblies according to requirements indicated.
 - 1. Preassemble signs and assemblies in the shop to greatest extent possible. Disassemble signs and assemblies only as necessary for shipping and handling limitations. Clearly mark units for reassembly and installation; apply markings in locations concealed from view after final assembly.
 - 2. Mill joints to a tight, hairline fit. Form assemblies and joints exposed to weather to resist water penetration and retention.
 - 3. Comply with AWS for recommended practices in welding and brazing. Provide welds and brazes behind finished surfaces without distorting or discoloring exposed side. Clean exposed welded and brazed connections of flux, and dress exposed and contact surfaces.
 - 4. Conceal connections if possible; otherwise, locate connections where they are inconspicuous.
 - 5. Internally brace signs for stability and for securing fasteners.
 - 6. Provide rebates, lugs, and brackets necessary to assemble components and to attach to existing work. Drill and tap for required fasteners. Use concealed fasteners where possible; use exposed fasteners that match sign finish.
 - 7. Castings: Fabricate castings free of warp, cracks, blowholes, pits, scale, sand holes, and other defects that impair appearance or strength. Grind, wire brush, sandblast, and buff castings to remove seams, gate marks, casting flash, and other casting marks before finishing.

2.6 GENERAL FINISH REQUIREMENTS

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- C. Organic, Anodic, and Chemically Produced Finishes: Apply to formed metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.

2.7 ALUMINUM FINISHES

A. Clear Anodic Finish: AAMA 611, [Class I, 0.018 mm] or thicker.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of signage work.
- B. Verify that sign-support surfaces are within tolerances to accommodate signs without gaps or irregularities between backs of signs and support surfaces unless otherwise indicated.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.
 - 1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
 - 2. Before installation, verify that sign surfaces are clean and free of materials or debris that would impair installation.
 - 3. Corrosion Protection: Coat concealed surfaces of exterior aluminum in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

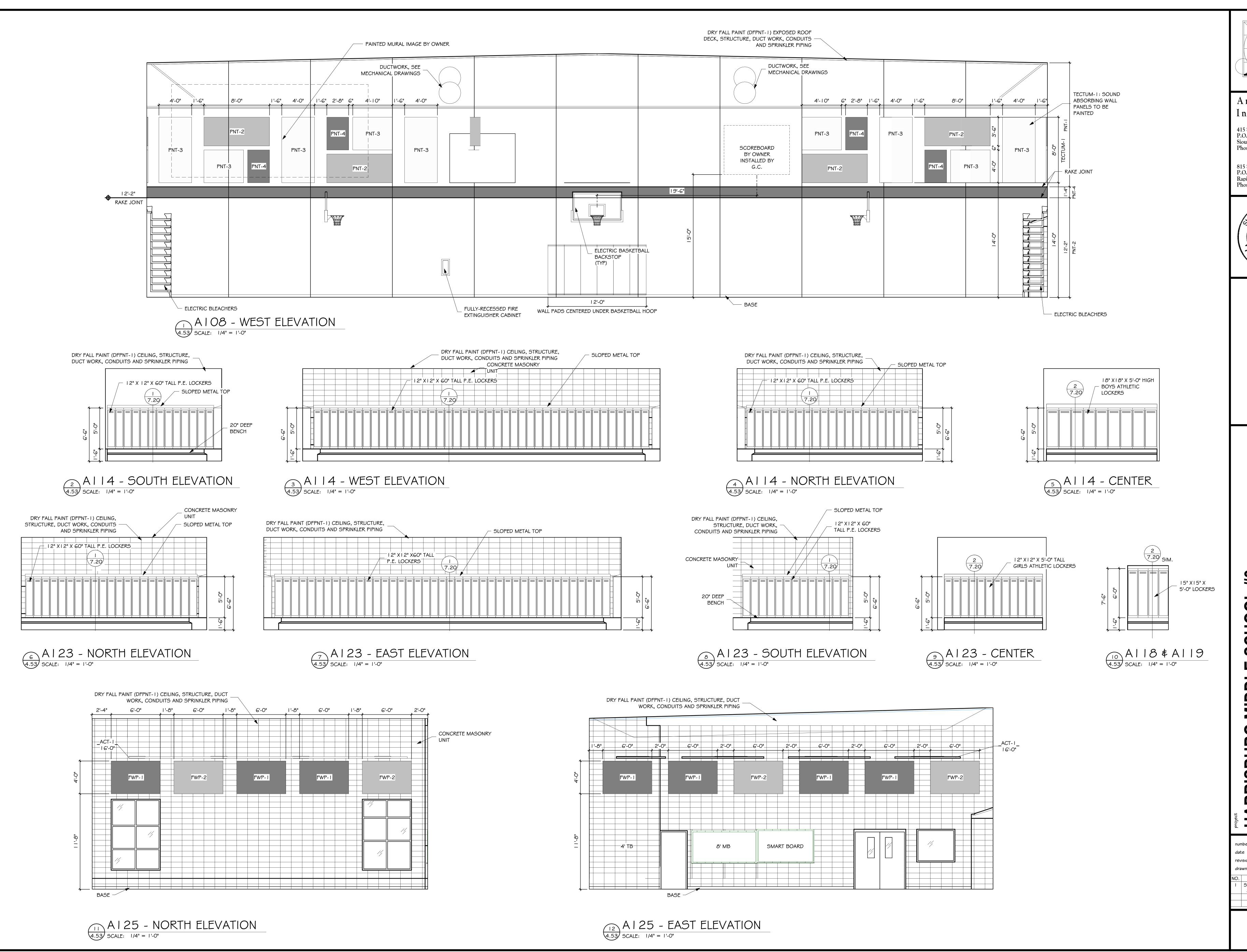
B. Mounting Methods:

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

3.3 ADJUSTING AND CLEANING

- A. Remove and replace damaged or deformed characters and signs that do not comply with specified requirements. Replace characters with damaged or deteriorated finishes or components that cannot be successfully repaired by finish touchup or similar minor repair procedures.
- B. Remove temporary protective coverings and strippable films as signs are installed.
- C. On completion of installation, clean exposed surfaces of signs according to manufacturer's written instructions, and touch up minor nicks and abrasions in finish. Maintain signs in a clean condition during construction and protect from damage until acceptance by Owner.

END OF SECTION 101419



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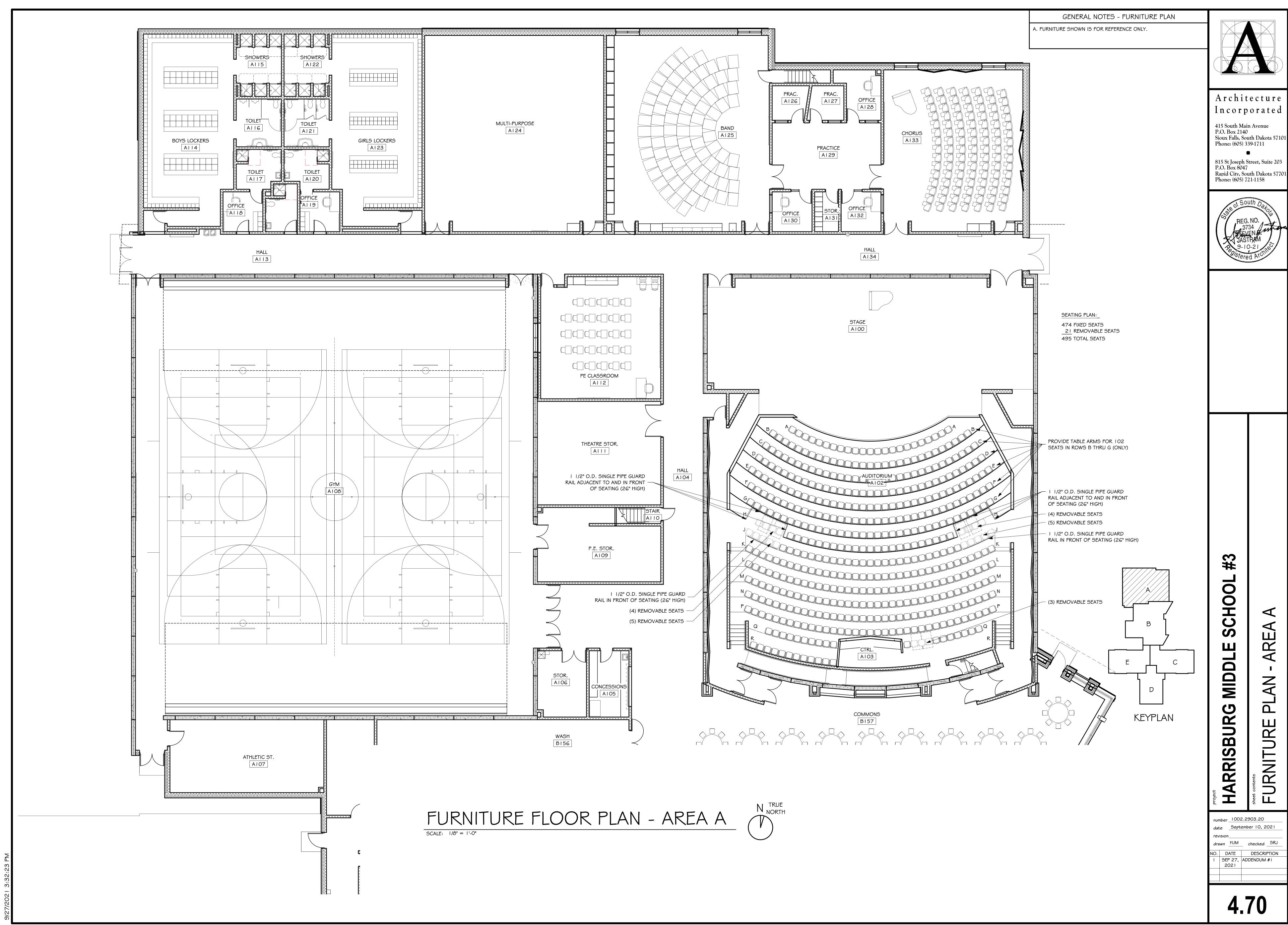
415 South Main Avenue P.O. Box 2140 Sioux Falls, South Dakota 57101 Phone: (605) 339-1711

815 St Joseph Street, Suite 203 P.O. Box 8047 Rapid City, South Dakota 57701 Phone: (605) 721-1158

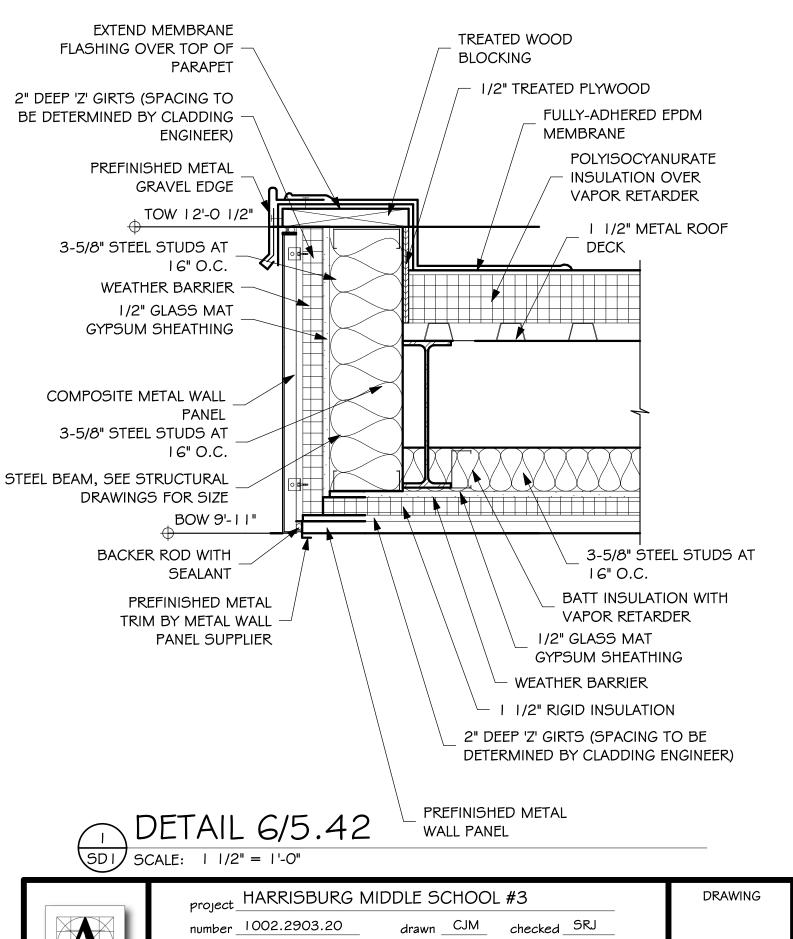


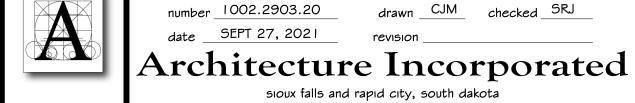
RISBURG MIDDLE SCHOOL #3

4.53

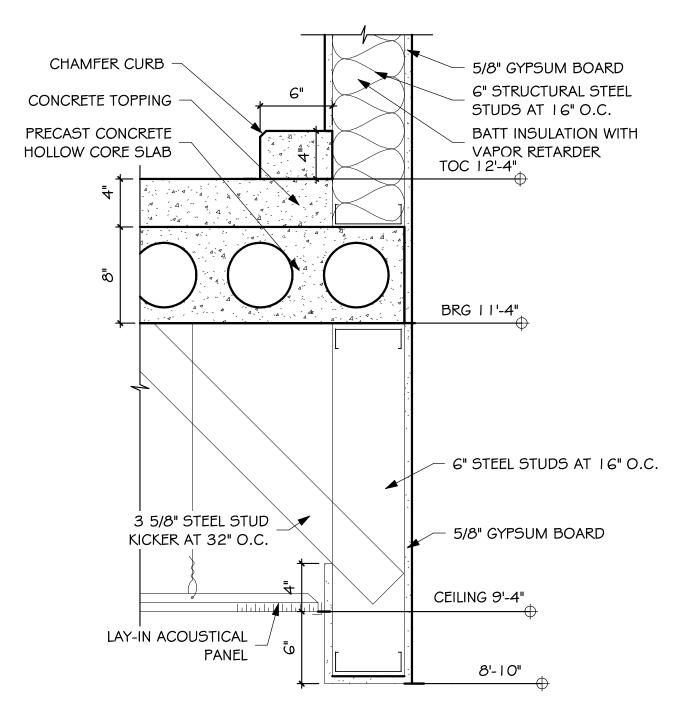






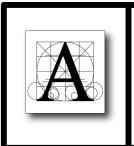


SD1





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



project_HARRISBURG MIDDLE SCHOOL #3

number 1002.2903.20 date SEPT 27, 2021

drawn CJM

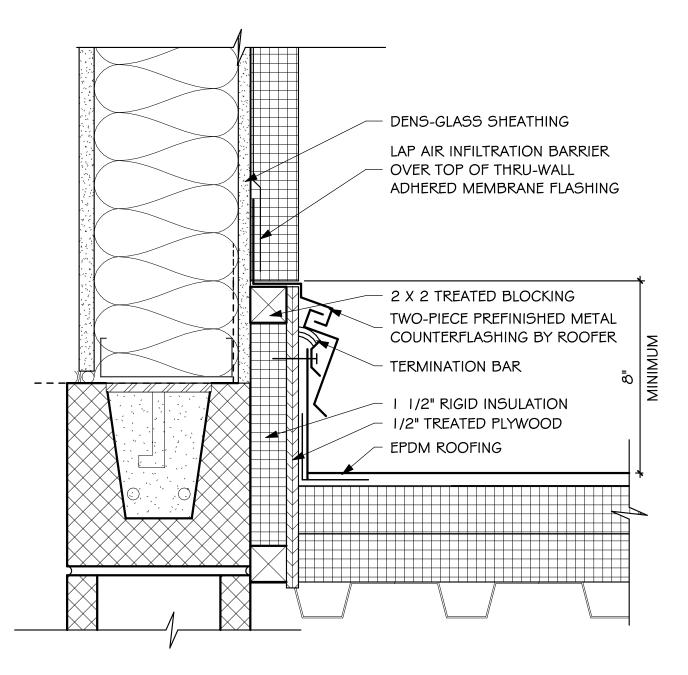
checked SRJ revision

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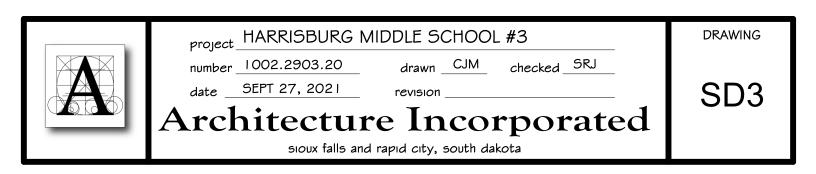
DRAWING

SD2

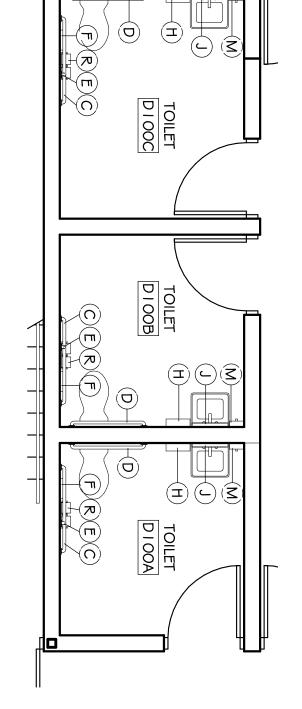


DETAIL 6/5.40

SD3) SCALE: 3" = 1'-0"



A. SEE SHEET 4.23 FOR FLOOR AND WALL TILE PATTERNS. I. CONTRACTOR PROVIDED, CONTRACTOR INSTALLED 2. OWNER PROVIDED, OWNER INSTALLED 3. OWNER PROVIDED, CONTRACTOR INSTALLED AND VERIFY PLACEMENT WITH OWNER. 5. MOUNT VERTICALLY 6. SURFACE MOUNTED 4. SEE MECHANICAL SPECIFICATIONS GENERAL NOTES -**ACCESSORY SYMBOLS ACCESSORY NOTES** ACCESSORY SYMBOL **ENLARGED PLANS**





project HARRISBURG MIDDLE SCHOOL #3

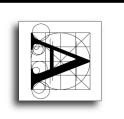
number_1002.2903.20 date SEPTEMBER 27, 2021

drawn BJO checked SRJ revision _

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415 south main avenue, sioux falls, south dakota 57101 (605)339-1711

SD4

DRAWING

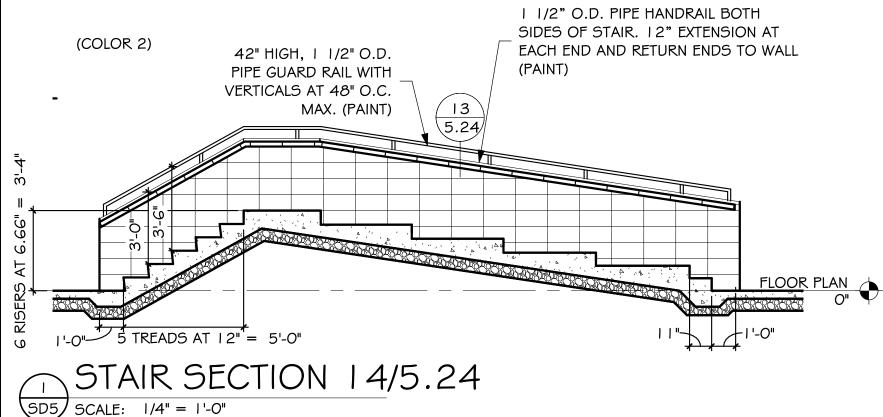


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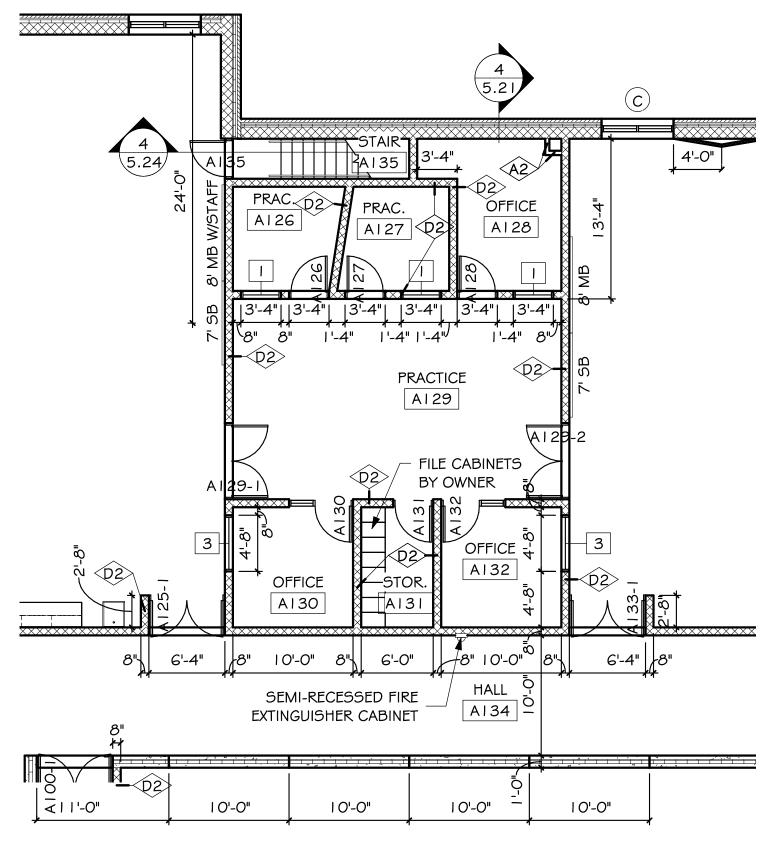
HARRISBURG MIDDLE

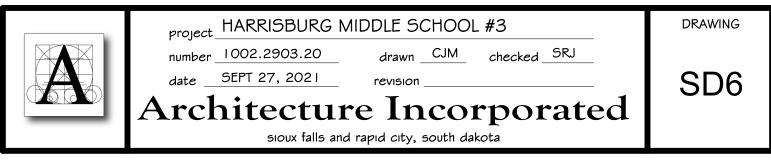
SCHOOL checked

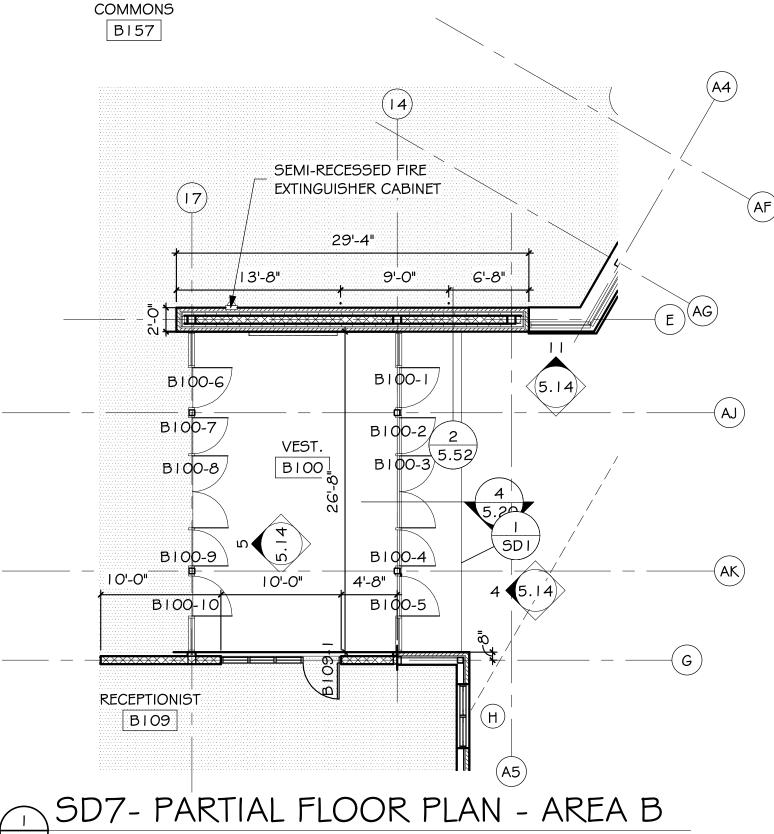


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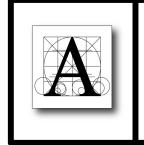
SP







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



project_HARRISBURG MIDDLE SCHOOL #3

number 1002.2903.20 date SEPT 27, 2021

CJM drawn

checked SRJ

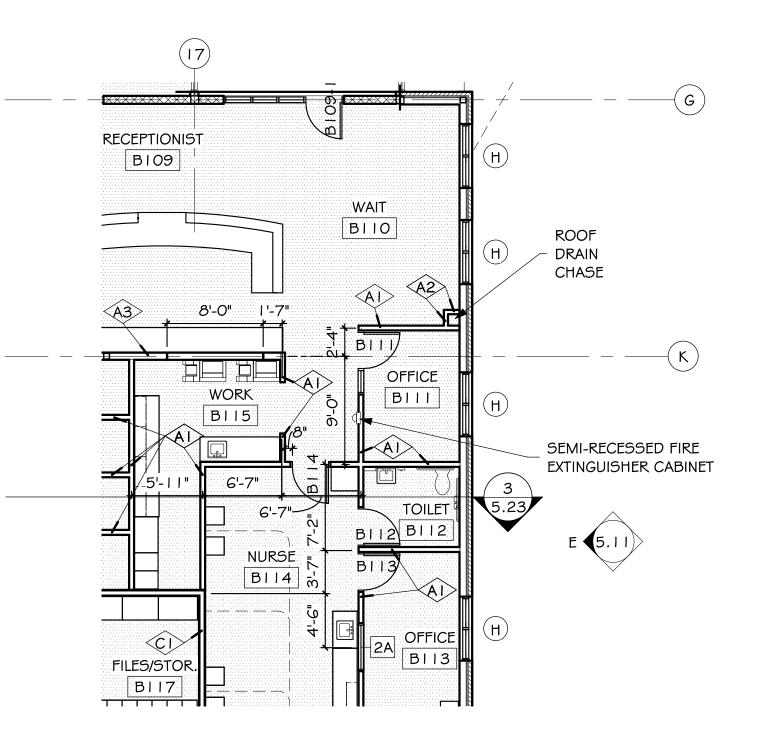
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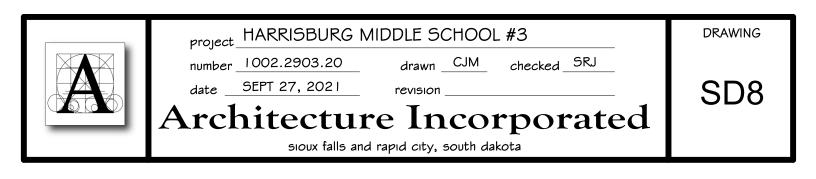
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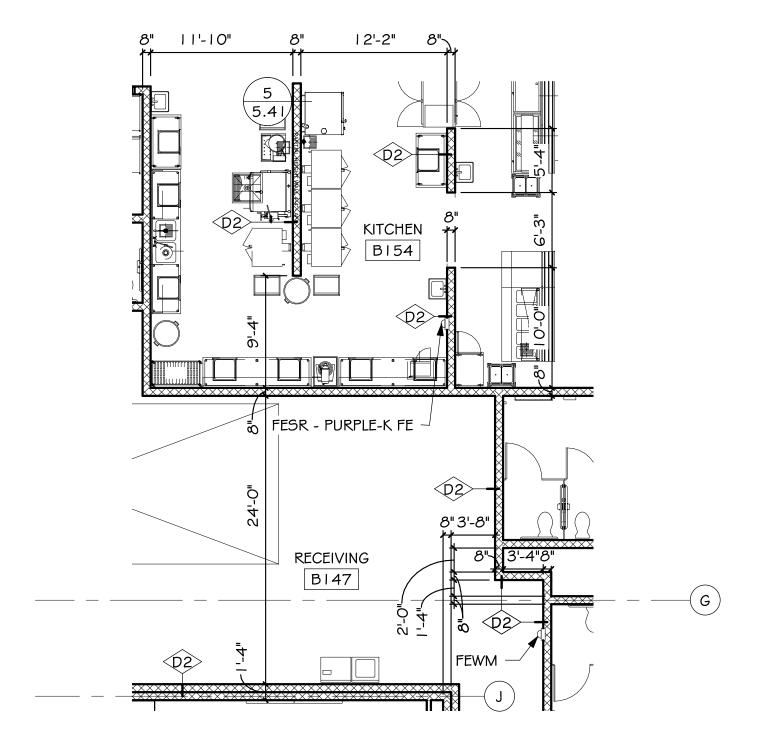
SD7



SD8- PARTIAL FLOOR PLAN - AREA B

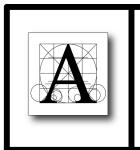
SCALE: 1/8" = 1'-0"





SD9- PARTIAL FLOOR PLAN - AREA B

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



project HARRISBURG MIDDLE SCHOOL #3

number 1002.2903.20 drawn CJM checked SRJ

date ___SEPT 27, 2021

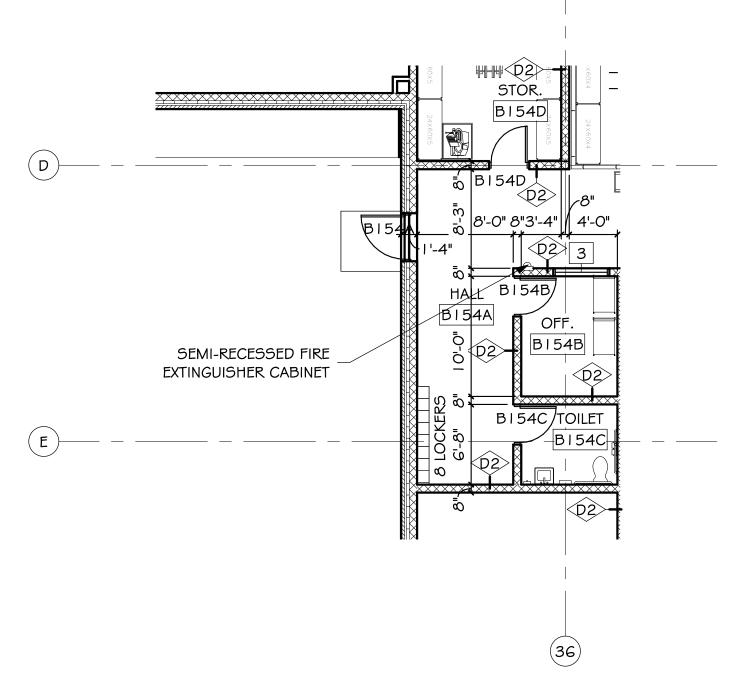
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Architecture Incorporated

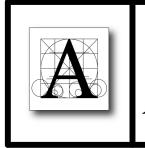
sioux falls and rapid city, south dakota

DRAWING

SD9



SDIO- PARTIAL FLOOR PLAN - AREA B



project_HARRISBURG MIDDLE SCHOOL #3

number 1002.2903.20

date SEPT 27, 2021

drawn <u>CJM</u>

checked SRJ

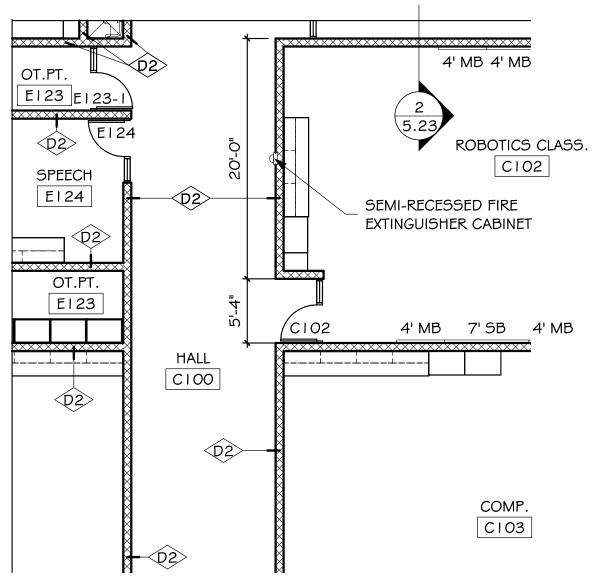
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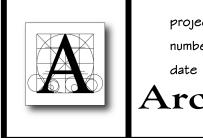
DRAWING

SD10



SDII - PARTIAL FLOOR PLAN - AREA C

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



project HARRISBURG MIDDLE SCHOOL #3

number 1002.2903.20

drawn <u>CJM</u>

checked SRJ

date SEPT 27, 2021

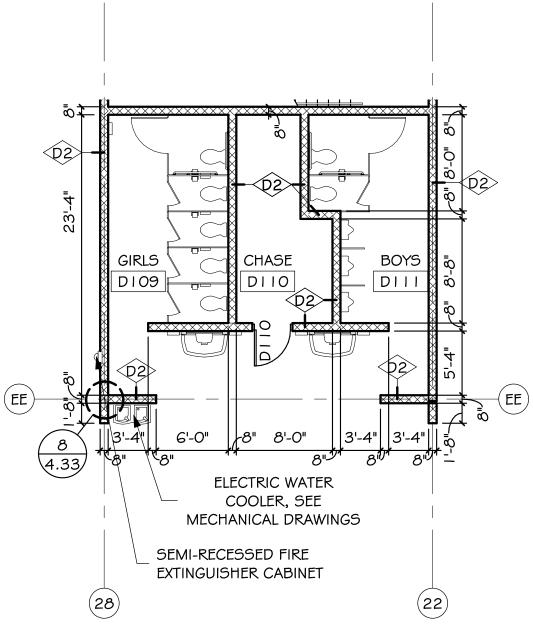
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SD11

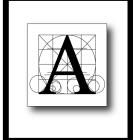
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SD12 - PARTIAL FLOOR PLAN - AREA D

SD12 SCALE: 1/8" = 1'-0"



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number 1002.2903.20 drawn CJM checked _

date SEPT 27, 2021

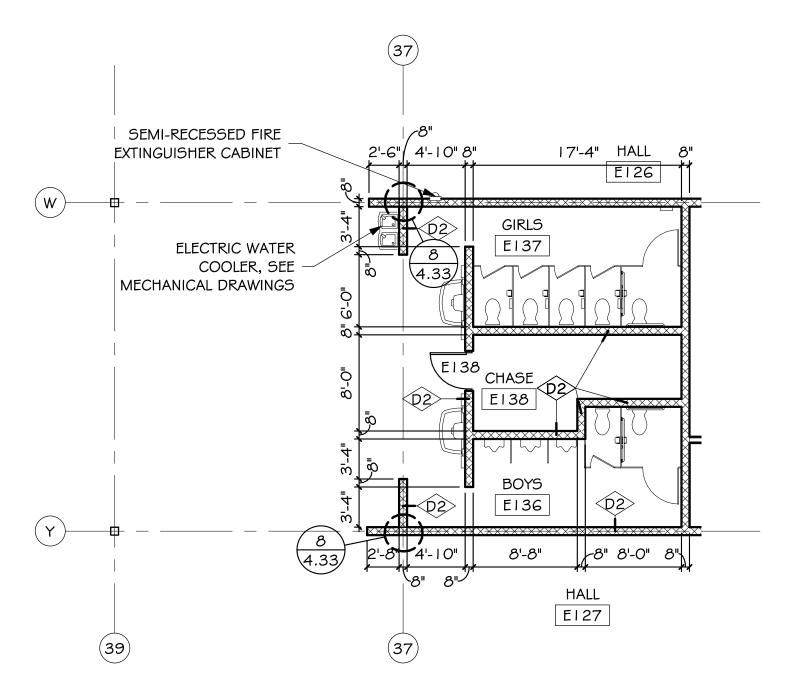
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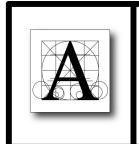
DRAWING

SD12



SD13 - PARTIAL FLOOR PLAN - AREA E

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



project_HARRISBURG MIDDLE SCHOOL #3

number 1002.2903.20

drawn <u>CJM</u>

checked SRJ

date SEPT 27, 2021

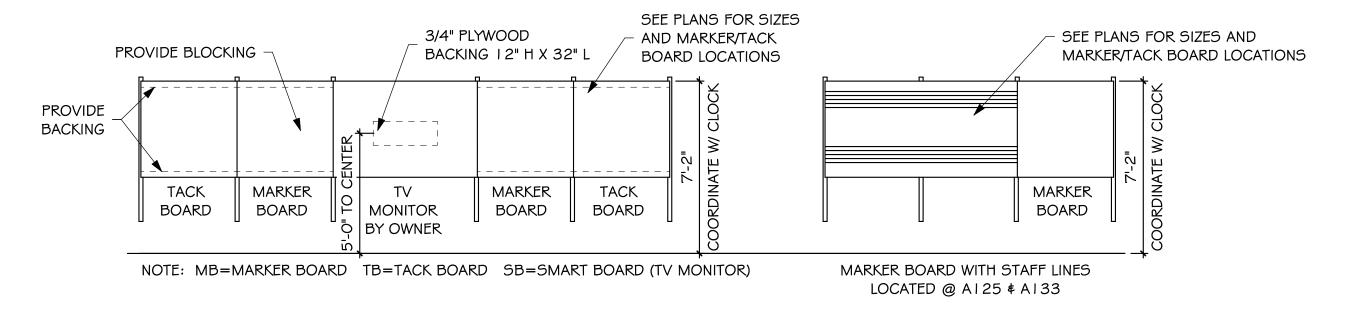
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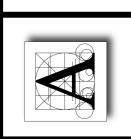
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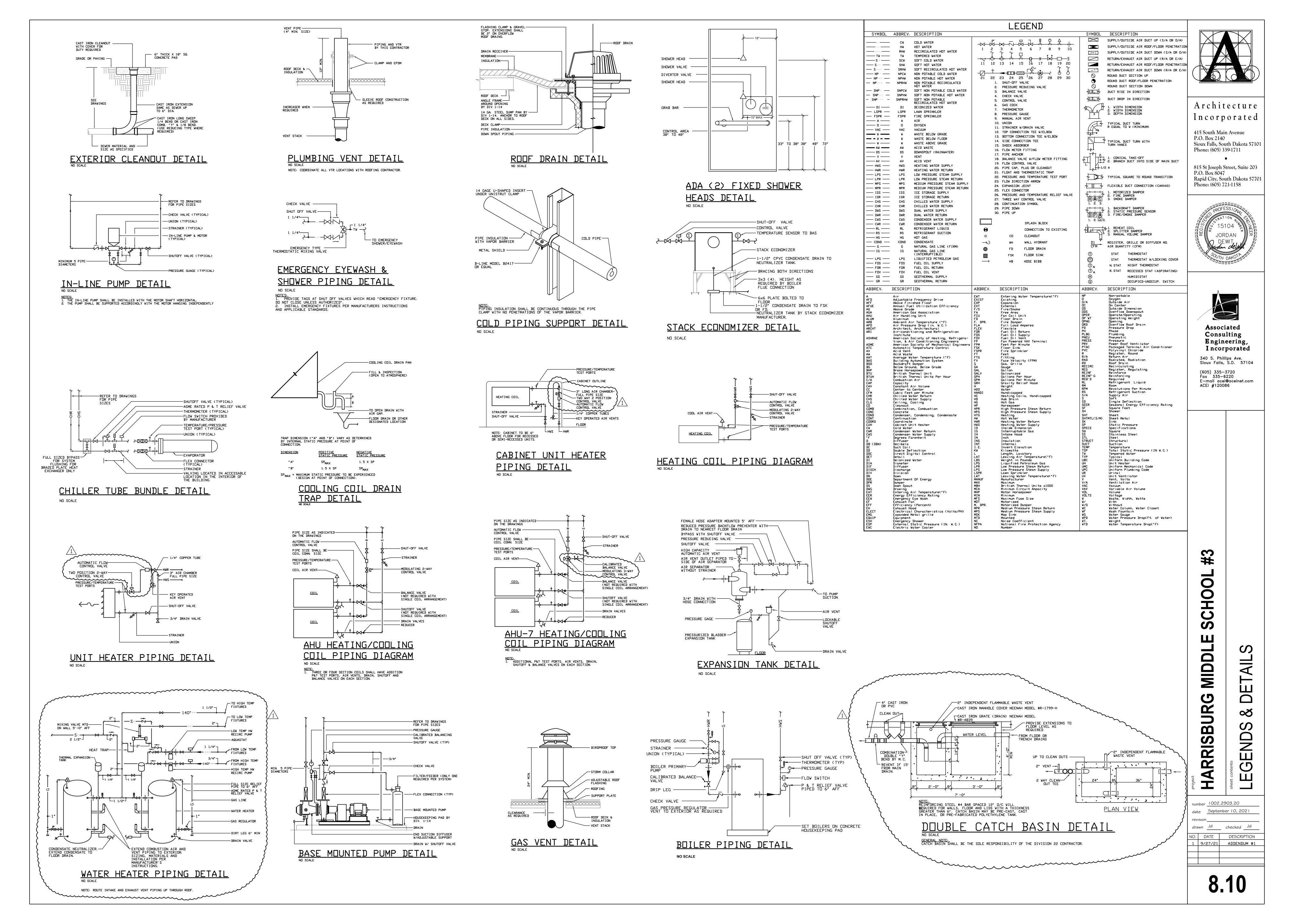
Project HARRISBURG MIDDLE SCHOOL #3 1002.2903.20

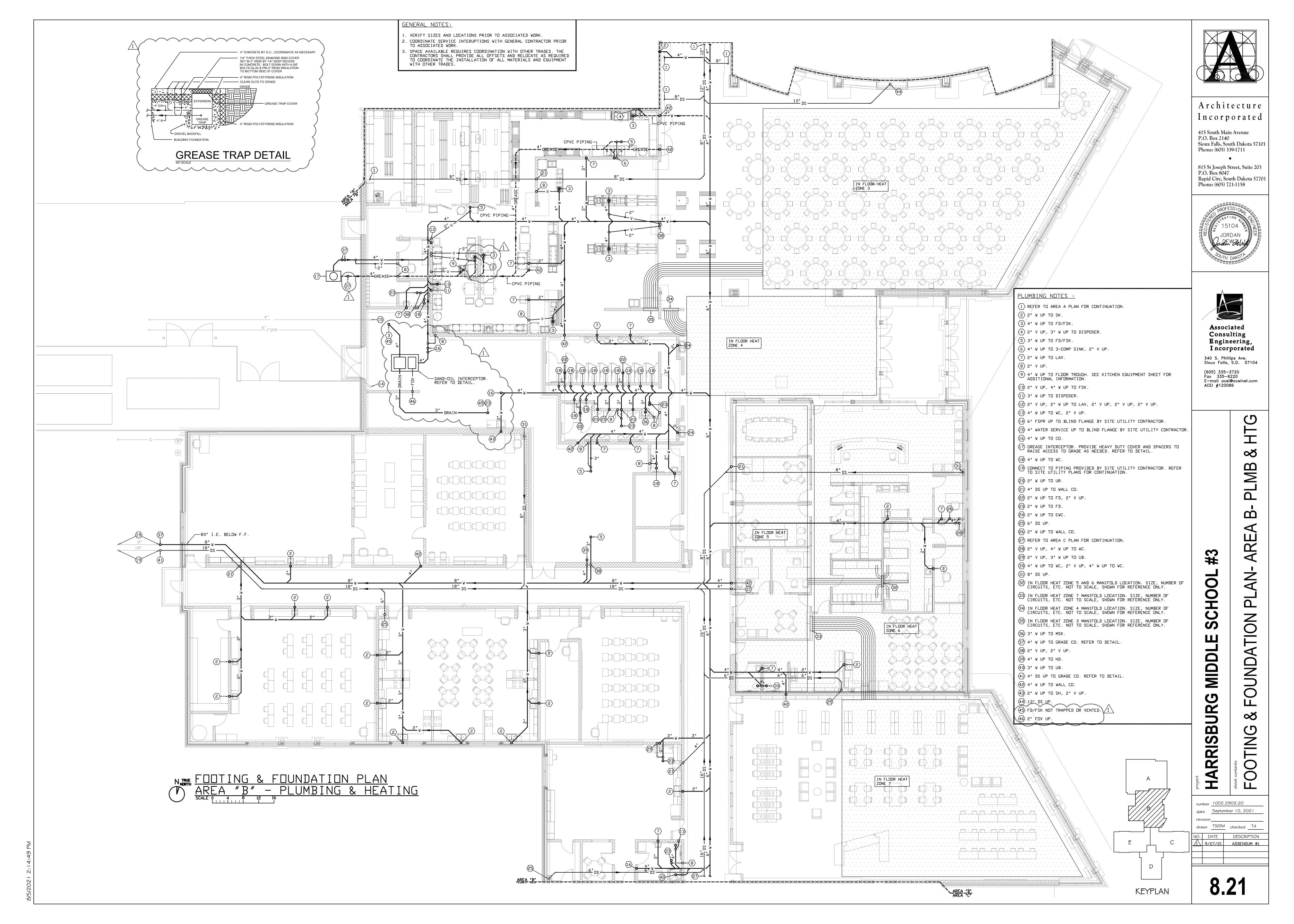


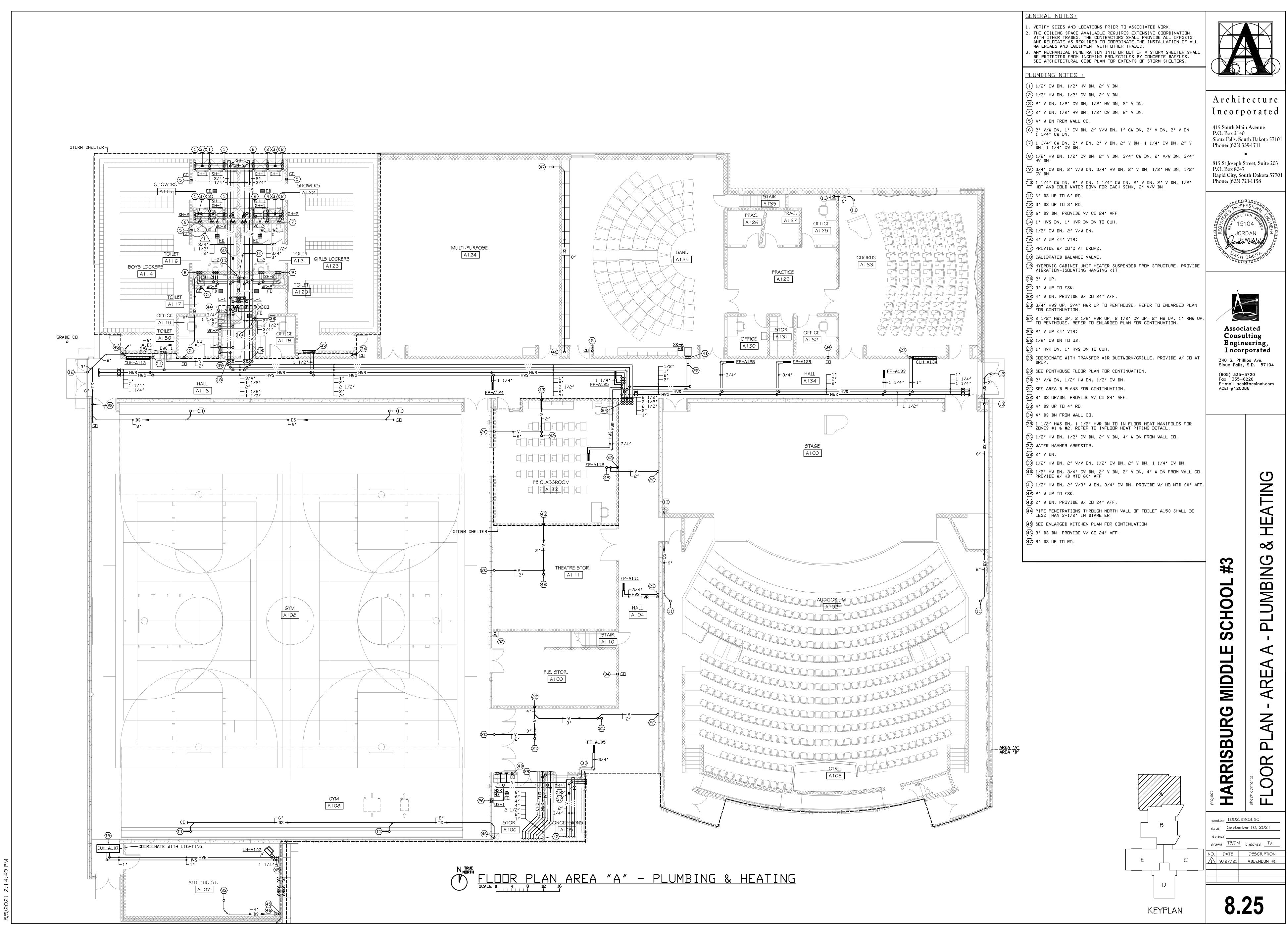
TYP. DISPLAY BOARD MOUNTING HEIGHTS

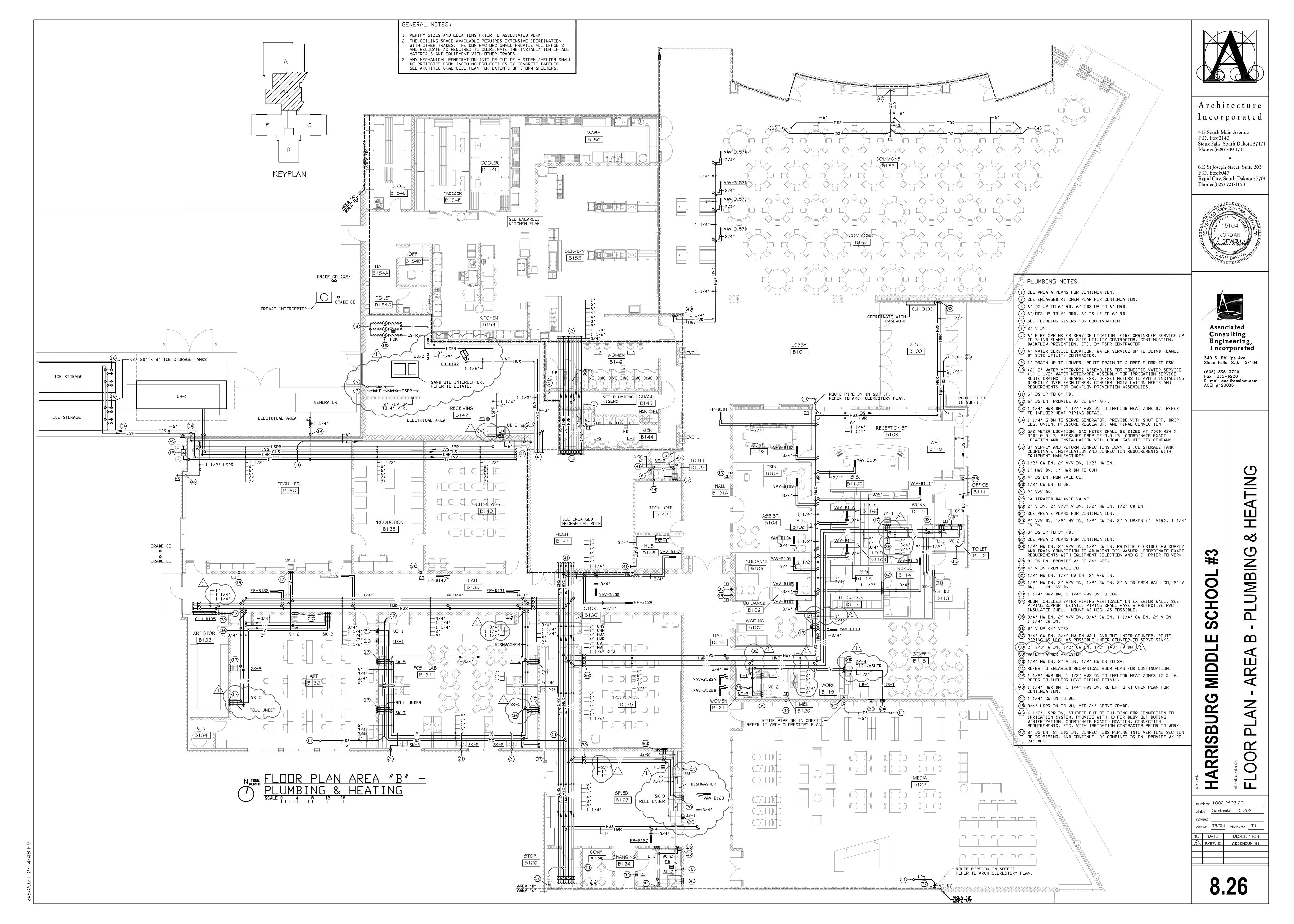
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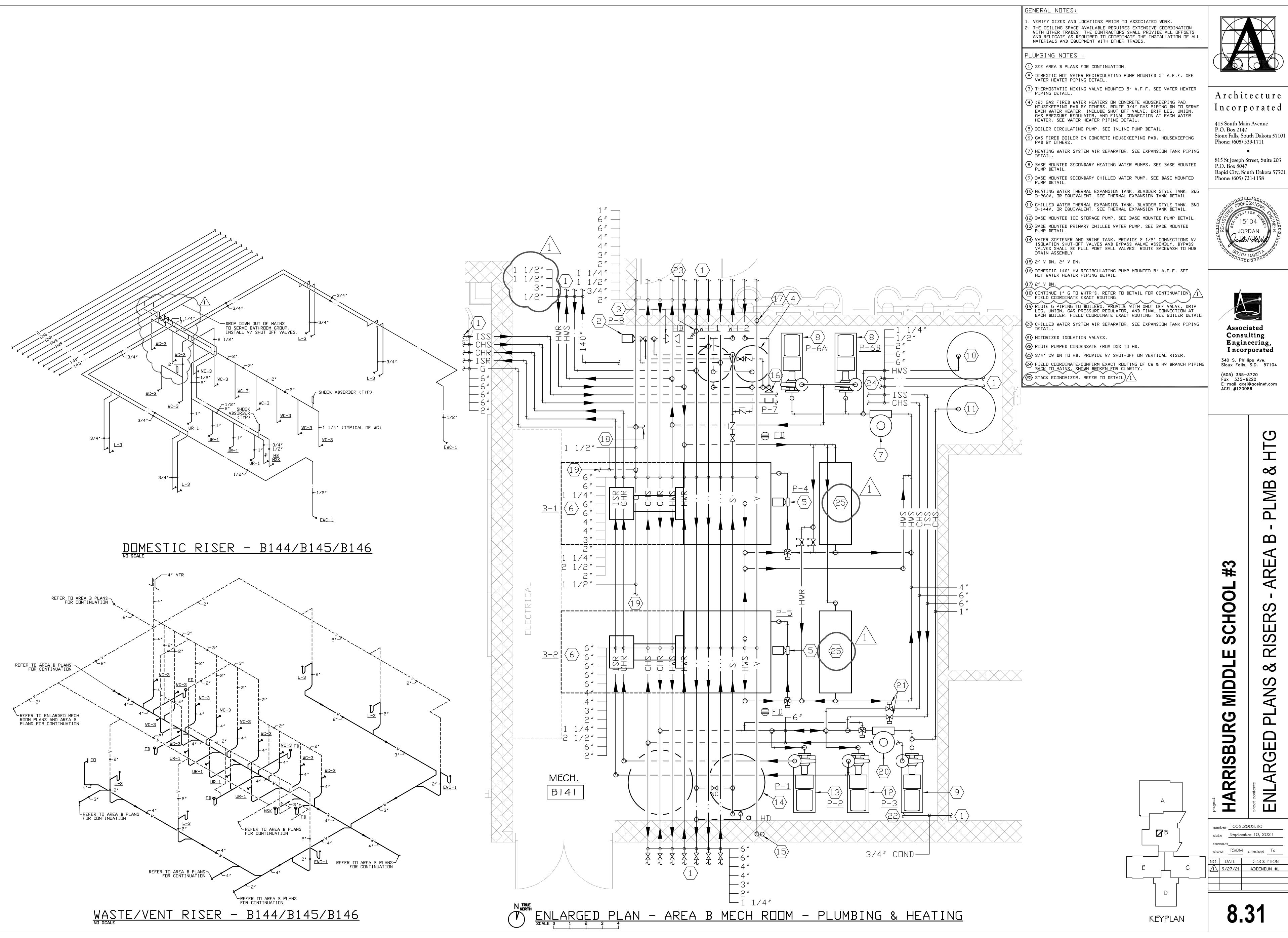




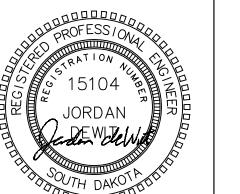




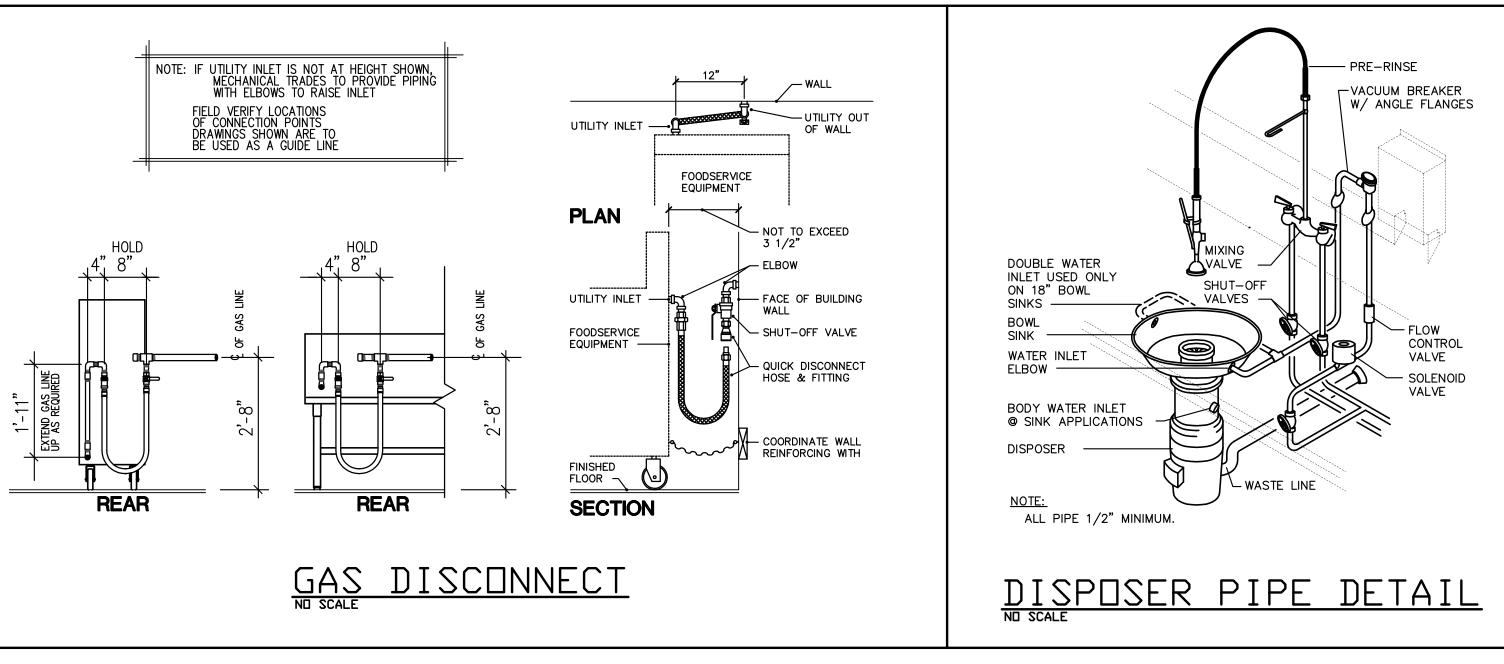


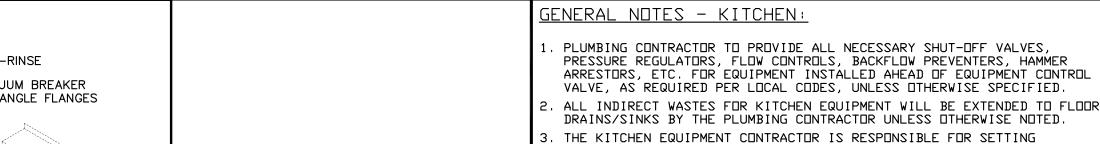


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EQUIPMENT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. SINK FAUCETS AND WASTES FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR, INSTALLED BY PLUMBING CONTRACTOR. SINK TAILPIECES, P-TRAPS, AND DRAIN CONNECTIONS FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR. HEALTH CODES REQUIRE THAT ALL PLUMBING BE ENCLOSED IN WALL OR FLOOR,

EQUIPMENT IN PLACE. FINAL CONNECTIONS AND INTERCONNECTIONS FOR THIS

AND THAT EXPOSED PIPING RUNS BE AS SHORT AS POSSIBLE. EXPOSED HORIZONTAL PIPING MUST BE 6' ABOVE THE FLOOR AND AT LEAST 1' OFF THE WALL. ALL EXPOSED PIPING TO BE CHROME PLATED. ALL EXPOSED PIPING PENETRATING FINISHED WALLS SHALL BE EQUIPPED WITH WALL ESCUTCHEONS.

GENERAL NOTES:

PLUMBING NOTES :

(2)8" DS UP TO 8" RD.

 $\langle 4 \rangle$ 2" V DN.

- VERIFY SIZES AND LOCATIONS PRIOR TO ASSOCIATED WORK. THE CEILING SPACE AVAILABLE REQUIRES EXTENSIVE COORDINATION WITH OTHER TRADES. THE CONTRACTORS SHALL PROVIDE ALL OFFSETS AND RELOCATE AS REQUIRED TO COORDINATE THE INSTALLATION OF ALL MATERIALS AND EQUIPMENT WITH OTHER TRADES.
- REFER TO FOOD SERVICE EQUIPMENT DRAWINGS FOR ADDITIONAL INFORMATION, DETAILS, PIPING AND CONNECTION REQUIREMENTS, ETC.

DETAILS, COORDINATE HEAT TRACE WITH OTHER TRADES.

 $\langle 7
angle$ 1/2" CW DN, 1/2" 140° HW DN, 2" V/4" W DN, 2" V DN, 1/2" CW DN,

(9) 3/4" 140° HW DN TO DISHWASHER ASSEMBLY, 1/2" CW DN TO INTEGRAL

WITH FSEC. SEE FSEC DRAWINGS FOR ADDITIONAL DETAILS. (10) 2" V DN, 2" V/3" W DN, 1/2" 140° HW DN, 3/4" CW DN.

DRAIN WATER TEMPERING KIT, COORDINATE CONNECTION REQUIREMENTS

(12) 3/4" CW DN, 3/4" 140° HW DN, 1" G DN. ROUTE WATER & GAS PIPING TO SERVE KITCHEN EQUIPMENT. PROVIDE INDIVIDUAL SHUT-OFFS ON THE WATER & GAS PIPING BRANCHES SERVING EACH INDIVIDUAL FIXTURE.

1) REFER TO AREA A PLANS FOR CONTINUATION.

 $\langle 5 \rangle$ 2" V/W DN, 1/2" CW DN, 1/2" HW DN.

 $\langle 6 \rangle$ CALIBRATED BALANCE VALVE.

 $\langle 8 \rangle$ 140° CALIBRATED BALANCE VALVE.

1/2" 140° HW DN.

Architecture COORDINATE CONDENSATE PIPING INSTALLATION AND ROUTING TO KITCHEN EQUIPMENT WITH FSEC. FSEC TO EXTEND INDIRECT COPPER DRAIN TO FSK REFER TO KITCHEN EQUIPMENT SCHEDULES AND FSEC DRAWINGS FOR MORE Incorporated

> 415 South Main Avenue P.O. Box 2140 Sioux Falls, South Dakota 57101

Phone: (605) 339-1711

815 St Joseph Street, Suite 203 P.O. Box 8047 Rapid City, South Dakota 57701

Phone: (605) 721-1158

REFER TO GAS PIPING RISER, SEE KITCHEN EQUIPMENT SHEETS FOR ADDITIONAL PIPING DETAILS/REQUIREMENTS. (13) 4" V UP (4" VTR). (14) 2" V DN, 3/4" CW DN, 1/2" 140° HW DN, 2" V/3" W DN.

⟨16⟩ 2″ V DN, 1/2″ CW DN, 1/2″ HW DN, 2″ V/W DN.

 $\langle 17 \rangle$ WATER HAMMER ARRESTOR(S)

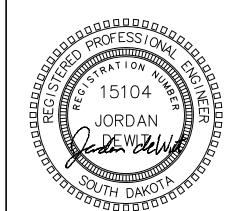
(18) 4" W DN FROM WALL CO.

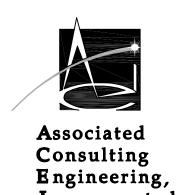
 $\langle 19 \rangle$ 4" DS DN FROM WALL CO.

 $raket{20}$ 1 1/2" HWR DN, 1 1/2" HWS DN TO INFLOOR HEAT ZONE #3 MANIFOLD. SEE INFLOOR HEAT PIPING DETAIL.

21) 1 1/4" HWR UP/DN, 1 1/4" HWS UP/DN. 1 1/4" HWS/R DN TO INFLOOR ′ HEAT ZONE #4 MANIFOLD. SEE INFLOOR HEAT PIPING DETAIL. HWS/R UP TO AREA B COMMONS. REFER TO AREA B PLANS FOR CONTINUATION.

(22) REFER TO AREA B PLANS FOR CONTINUATION.





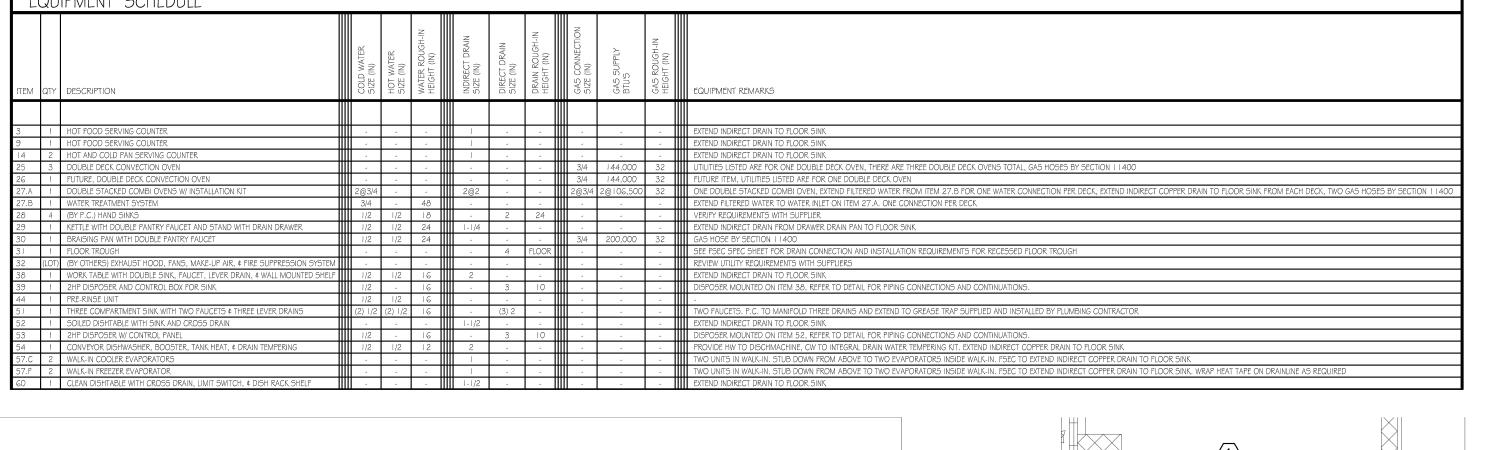
I ncorporated 340 S. Phillips Ave. Sioux Falls, S.D. 57104

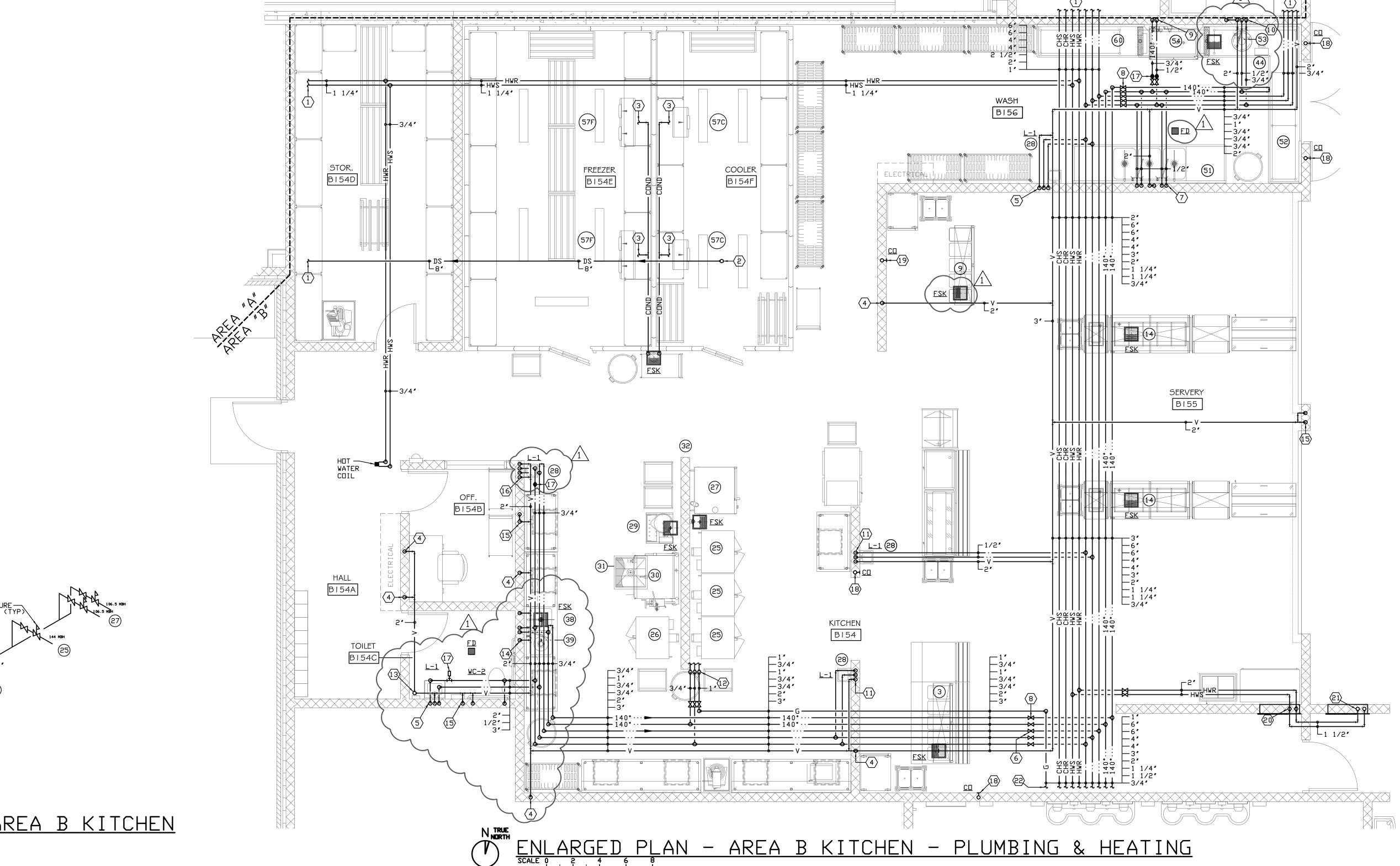
(605) 335-3720 Fax 335-6220 E-mail acei@aceinet.com

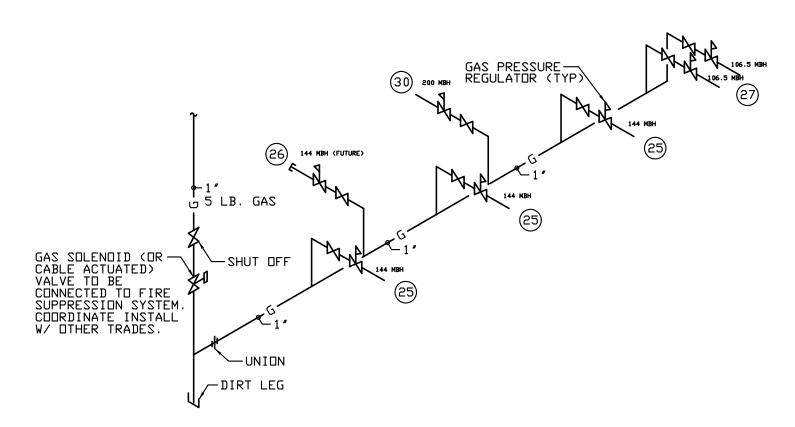
PLUMBING SCHOOL MIDDLE RRISBURG

drawn TS/DM checked Td 1 9/27/21 ADDENDUM #1

8.32

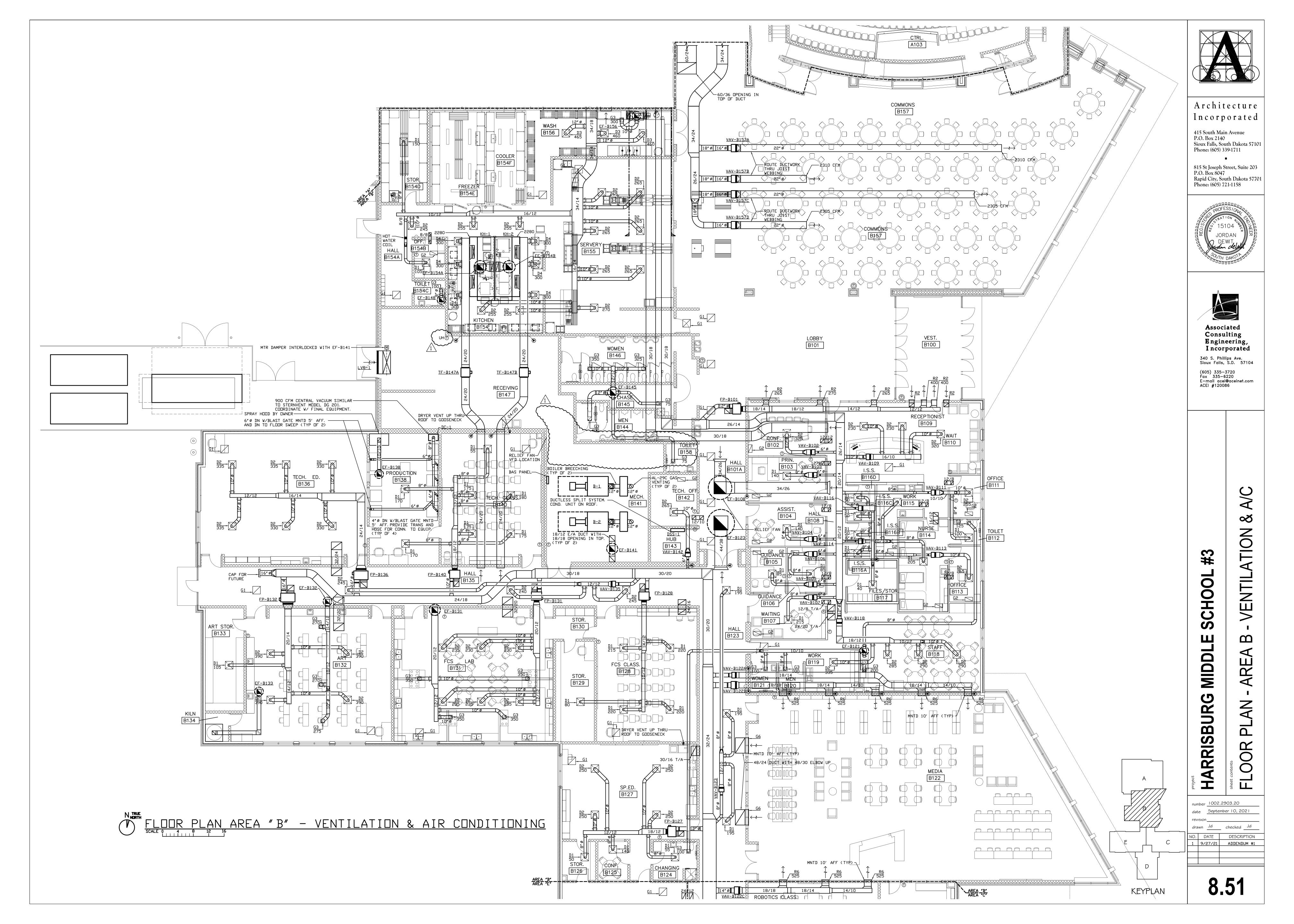






GAS RISER - AREA B KITCHEN

KEYPLAN



	TYPE	MANUFACTURER	MODEL NO.	TRIM	SUPPLIES	WASTE	REMARKS
SYMBOL WC-1	WATER CLOSET	AMERICAN	2234. 001	SLOAN			CHURCH 9500SSCT SEAT
	FLUSH VALVE FLOOR MOUNTED ELONG	STANDARD		8111-1. 6			BATTERY OPERATOR
WC-2	WATER CLOSET FLUSH VALVE FLOOR MOUNTED	AMERICAN STANDARD	3043. 001	SL□AN 8111-1. 6			CHURCH 9500SSCT SEAT BATTERY OPERATOR
WC-3	WATER CLOSET FLUSH VALVE WALL HUNG	AMERICAN STANDARD	2634. 101	SLOAN 152-1.6 ES-S			CHURCH 9500SSCT SEAT JOSAM SERIES 12000 CARRIER MNT. HEIGHT ON ARCH. PLANS BACK SPUD, SOLENDID OPERATOR
UR-1	URINAL WASHOUT WALL HUNG	SLOAN	SU-7019	SLOAN 195-1-ES-S			JOSAM SERIES 17000 CARRIER MNT. HEIGHT ON ARCH. PLANS BACK SPUD, SOLENOID OPERATO
L-1	LAVATORY WALL HUNG HANDI	AMERICAN STANDARD	0355. 421	ZURN Z86100-XL-16M SINGLE HOLE LAWLER TMM-1070	BRASSCRAFT DCR19Z	GRID DRAIN	17 GA. C.P. P-TRAP JOSAM SERIES 17000 CARRIER MNT. HEIGHT ON ARCH. PLANS W/TRUBRO WASTE & WATER PIPE PROTECTOR, OFFSET WASTE ARM
L-2	LAVATORY 3-PERSON SEMICIRCULAR	WILLOUGHBY INDUSTRIES	WAF-3603- PPB1		BRASSCRAFT DCR19Z		17 GA. C.P. P-TRAP MNT. HEIGHT ON ARCH. PLANS
L-3	LAVATORY 3-PERSON	WILLOUGHBY INDUSTRIES	WAW-2333- PPB1		BRASSCRAFT DCR19Z		17 GA. C.P. P-TRAP MNT. HEIGHT ON ARCH. PLANS
MSK	MOP SINK FLOOR MOUNTED	FIAT	TSBC1610 -832AA -889CC	ZURN Z843M1-RC-CS W/ VACUUM BREAKER			CW HB MTD 5'-O" AFF
SK-1	SINK-STAINLESS STEEL, SINGLE COMPARTMENT	ELKAY	PSR-1919	CHICAGO 2302	BRASSCRAFT DCR19Z	LK-35 STRAINER	17 GA. C. P. P-TRAP
SK-5	SINK-STAINLESS STEEL, SINGLE COMPARTMENT ART ROOM	ELKAY	PSR-1919	CHICAGO 2302	BRASSCRAFT DCR19Z	LK-35 STRAINER	STRIEM "SIDEKICK" SOLIDS INTERCEPTOR
SK-3	SINK-INTEGRAL BOWL SCIENCE SINK	BY OTHERS		CHICAGD 930-369	BRASSCRAFT DCR19Z	BASKET STRAINER	17 GA. C. P. P-TRAP
SK-4	SINK-STAINLESS STEEL DOUBLE COMPARTMENT	ELKAY	PSR-3319	CHICAGD 2302 GN8AJKABCP SPOUT	BRASSCRAFT DCR19Z	LK-35 STRAINER LK-53 CONT WASTE	17 GA. C.P. P-TRAP DISHWASHER CONNECTION
SK-5	SINK-STAINLESS STEEL DOUBLE COMPARTMENT	ELKAY	PSR-3319	CHICAGO 2302 GN8AJKABCP SPOUT	BRASSCRAFT IDCR19Z	LK-35 STRAINER LK-53 CONT WASTE	17 GA. C.P. P-TRAP
SK-6	UTILITY SINK WALL HUNG	MUSTEE	28CF		BRASSCRAFT DCR19Z	STRAINER	17 GA. C. P. P-TRAP
SK-7	SINK-STAINLESS STEEL DOUBLE COMPARTMENT HANDI	ELKAY	LRAD-3319	CHICAGO 2302 GN8AJKABCP SPOUT	BRASSCRAFT IDCR19Z	LK-35 STRAINER LK-53 CONT WASTE	17 GA. C.P. P-TRAP OFFSET WASTE ARM, TRUBRO WASTE & WATER PIPE PROTECTO
SK-8	SINK-STAINLESS STEEL DOUBLE COMPARTMENT HANDI	ELKAY	LRAD-3319	CHICAGD 2302 GN8AJKABCP SPOUT	BRASSCRAFT ICR19Z	LK-35 STRAINER LK-53 CONT	17 GA. C.P. P-TRAP DISHWASHER CONNECTION OFFSET WASTE ARM, TRUBRO WASTE & WATER PIPE PROTECTO
SK-9	SINK-STAINLESS STEEL, SINGLE COMPARTMENT HANDI, ART ROOM	ELKAY	LRAD-1919	CHICAGO 2302	BRASSCRAFT DCR19Z	LK-35 STRAINER	STRIEM 'SIDEKICK' SOLIDS INTERCEPTOR MAX AFF IN REAR OF CASEWORK, OFFSET WASTE, TRUBRO WASTE & WATER & INTERCEPTOR PROTECTOR
SH-1	SHOWER	TILE		BRADLEY WS-1F-6'- AST-SX15-ST-RSD-VS		2" FLOOR DRAIN	ALL METAL TRIM, THERMUSTATI MIXING VALVE, FIXED SHOWER HEAD
SH-2	SHOWER - ADA	TILE		BRADLEY HN200-6'- AST-(2)SX15-ST-RSD -VS		2' FLOOR DRAIN	ALL METAL TRIM, THERMOSTATI MIXING VALVE, 2 FIXED SHOWE HEADS
ESH	COMBINATION EYEWASH & SHOWER HANDI	BRADLEY	S19- 120SSBF S19-224SC				17 GA. C.P. P-TRAP, MIXING VALVE, LAWLER MODEL NO. 911 INLET CHECK VALVES
EWC-1	ELECTRIC WATER COOLER WALL MTD DUAL HEIGHT W/ BOTTLE FILL	ELKAY	LZSTL8WSSP		BRASSCRAFT DCR19Z		17 GA. C.P. P-TRAP MNT. HEIGHT ON ARCH. PLANS
UB-1	ICEMAKER BOX	SIOUX CHIEF	696-				MOUNT AT 36" AFF
UB-2	WASHER BOX	SIOUX CHIEF	G1010MF 696-				SHOCK ABSORBERS P-TRAP, SHOCK ABSORBERS
			G2313MF				
UB-3 REMARKS	DRAIN BOX	SIOUX CHIEF	696-3				P-TRAP
1. HAN	DICAPPED FLUSH VALV						
	ISH VALVES SHALL HAV ISH VALVE ESCUTCHEON				HICKNESS AND	SET SCREW.	
	VIDE & INSTALL TRAN						

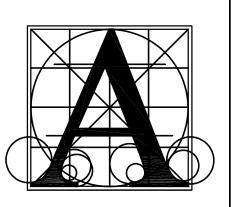
UNIT	MANUFACTURER	MODEL	INPUT		RECOVERY @ 100°	ELECTR	ICAL	REMARKS
ND.		N□.	MBH/WATTS	EFF.	GPH	V/PH	FLA	
WH-1	HEAT TRANSFER	PHOENIX PH-199-119	199. 9 MBH	96%	230	120/1	5	ALL
WH-2	HEAT TRANSFER	PHOENIX PH-199-119	199. 9 MBH	96%	230	120/1	5	ALL
	RECT VENT, SEAL	LED COMBUSTION. TEEL TANK, 90/10 CUPR			·			

			CAL	ELECTRI	OPER	AGA DUTPUT	AGA INPUT	MODEL NO.	MANUF	BOILER
	(LBS)	AMPS	PH	VOLTS	EFF	(MBH)	(MBH)			ND.
ALL	7225	6, 6	3	460	79. 7	1875	2352	S45-56	HURST	B-1
ALL	7225	6. 6	3	460	79. 7	1875	2352	\$45-56	HURST	B-2
<u>A</u>	/225 	6. 6	<u> </u> 3	460		NECT. NFACTURER'S RECE	LE POINT DISCON	ICLUDE A SINGL D. SIZE AND	SHALL IN DRAIN TO F	REMARKS: 1. PACKAGE 2. ROUTE I

PUMP	SCHEDULE												
PUMP ND.	DESCRIPTION	MANUF.	MODEL NO.	STYLE	SIZE	GPM	HEAD (FT)	MOTOR MHP	BHP	RPM	ELEC. VOLTS	PH	REMARKS
P-1	CHILLED PRIMARY	B & G	1531	BASE	3BD	360	50	7, 5	6. 2	1750	460	3	1, 2, 3
P-2	ICE LOOP	B & G	1531	BASE	3BD	400	75	15	9. 72	1750	460	3	1, 2, 3
P-3	SECONDARY CHILLED	B & G	1531	BASE	4BC	620	70	20	13, 53	1750	460	3	1,2
P-4	HEATING PRIMARY	B & G	E80	INLINE	3X3X7C	220	30	3	2. 23	1750	460	3	1
P-5	HEATING PRIMARY	B & G	E80	INLINE	3X3X7C	220	30	3	2. 23	1750	460	3	1
P-6A	SECONDARY HEATING	B & G	1510	BASE	2 1/2BB	285	75	10	7. 34	1750	460	3	1,2
P-6B	SECONDARY HEATING	B & G	1510	BASE	2 1/2BB	285	75	10	7. 34	1750	460	3	1,2
P-7	140° HW RETURN	B & G	PL-36	INLINE		10	20	. 13KW		3300	120	1	4
P-8	110° HW RETURN	B & G	PL-55	INLINE		20	30	. 3KW		3250	120	1	4
							Ī						
												 	

EΜ	ARKS:		
.	PUMP	CAPACITY IS BASED UPON 70% WATER/30% PROPYLENE GLYCOL.	
	PUMP	SHALL INCLUDE A VFD.	
.	PUMP	SHALL RUN AT 350 GPM DURING ICE MAKING MODE.	
	PUMP	SHALL BE A BRONZE BODY PUMP AND SHALL INCLUDE TIMER AND AQUASTAT.	

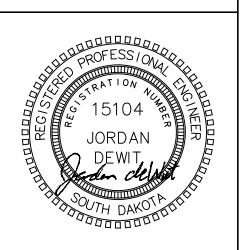
	MANUFACTURER	UNIT SIZE	TYPE	INTAKE LOCATION	DISCHARGE LOCATION	I	ı	□T□R(S) FAN HP-1	FAN HP-2	VOLTS		HEATING MBH			ΓΥ GPM	WPD	REMARKS
:UH-A107	RITTLING	08	RC	В	В	870	1550	1/7		115	1	31. 1	130	100	2. 7	5′	1, 2, 3, 4,
UH-A113	RITTLING	08	SRWI	F	F	870	1550	1/7		115	1	31. 1	130	100	2. 7	5′	1, 2, 4, 6
:UH-A134	RITTLING	08	SRWI	F	F	870	1550	1/7		115	1	31. 1	130	100	2. 7	5′	1, 2, 4, 6
:UH-B100	RITTLING	12	SRWI	F	F	1300	1550	1/7		115	1	52. 1	130	100	5. 4	5′	1, 2, 4, 6
:UH-B135	RITTLING	08	SRWI	F	F	870	1550	1/7		115	1	31. 1	130	100	2. 7	5′	1, 2, 4, 6
:UH-C130	RITTLING	08	SRWI	F	F	870	1550	1/7		115	1	31. 1	130	100	2. 7	5′	1, 2, 4, 6
:UH-C131	RITTLING	08	SRWI	F	F	870	1550	1/7		115	1	31. 1	130	100	2. 7	5′	1, 2, 4, 6
:UH-D120	RITTLING	08	SRWI	F	F	870	1550	1/7		115	1	31. 1	130	100	2. 7	5′	1, 2, 4, 6
:UH-D122	RITTLING	08	SRWI	F	F	870	1550	1/7		115	1	31. 1	130	100	2. 7	5′	1, 2, 4, 6
:UH-E125	RITTLING	08	SRWI	F	F	870	1550	1/7		115	1	31. 1	130	100	2. 7	5′	1, 2, 4, 6
:UH-E128	RITTLING	08	SRWI	F	F	870	1550	1/7		115	1	31. 1	130	100	2. 7	5′	1, 2, 4, 6
~~~~	~~~~	~~~	~	~~~	~~~~	~~	~~	~~~	~~~	<b>~~</b>	~	~~~	~~	~~	~	~~	~~~
IH-A107	RITTLING	RH-86	HP	В	F	1340	1550	1/10		115	1	26. 5	130	100	4. 2	5′	1, 3, 6
IH-B147	RITTLING	RH-290	HP	В	F	4300	1075	1/2		115	1	89. 1	130	100	15. 0	5′	1, 3, 6
~~~	<del> </del>					<u> </u>	<u> </u>	~~~		~~	L						
MODEL TYPE: F - FLOOR; FI - FLOOR INVERTED FLOW; W - WALL; WI - WALL INVERTED FLOW; FRW - FULLY RECESSED WALL FRWI - FULLY RECESSED WALL INVERTED FLOW; SRW - SEMI RECESSED WALL; SRWI - SEMI RECESSED WALL INVERTED FLOW C - CEILING; RC - RECESSED CEILING; HP - HORIZONTAL PROPELLER UNIT LOCATIONS: F - FRONT; R - REAR; B - BOTTOM; T - TOP REMARKS: 1. HEATING CAPACITY BASED ON 70% WATER/ 30% PROPYLENE GLYCOL. 2. PROVIDE TAMPER RESISTANT FASTENERS FOR ACCESS DOOR. 3. HANG UNIT FROM STRUCTURE WITH NEOPRENE ISOLATORS. 4. UNIT SHALL HAVE A TWO ROW COIL 5. UNIT SHALL BE HUNG FROM ANGLE IRON WALL BRACKET. 6. PROVIDE WITH DISCONNECT.																	



Architecture Incorporated

415 South Main Avenue P.O. Box 2140 Sioux Falls, South Dakota 57101 Phone: (605) 339-1711

815 St Joseph Street, Suite 203 P.O. Box 8047 Rapid City, South Dakota 57701 Phone: (605) 721-1158





I ncorporated

340 S. Phillips Ave.
Sioux Falls, S.D. 57104

(605) 335-3720
Fax 335-6220
E-mail acei@aceinet.com

RRISBURG MIDDLE SCHOOL #3

HARRISBU sheet contents

SCHEDULE

number 1002.2903.20

date September 10, 2021

 revision

 drawn
 Jd
 checked
 Jd

 NO.
 DATE
 DESCRIPTION

 1
 9/27/21
 ADDENDUM #1

8.60

FAN	POWE	RED	VAV	TER	RMINA	2 JA	CHE	DUI	_E (AHU-	1)							
UNIT	MANUF.	MODEL	INLET	CFM	MIN	TERM	EXT	RAD	DISCH	MOTOR		HEATI	NG COIL					REMARKS
ND.		ND.	SIZE		CFM	S. P.	S. P.	NC	NC	HP	VOLT/PH	EAT	MBH	GPM	WPD	EWT	LWT	
FP-A105	PRICE	FDC	10	945	290	0, 25"	0, 5"	29	26	1/2	277/1	64	22. 4	1. 6	5	130	100	1, 2, 3, 4
FP-A111	PRICE	FDC	8	410	125	o. 25 ″	0, 5"	28	22	1/4	277/1	64	6. 2	0. 5	5	130	100	1, 2, 3, 4
FP-A112	PRICE	FDC	10	990	300	o. 25 "	0. 5"	29	26	1/2	277/1	64	22. 0	1. 6	5	130	100	1, 2, 3, 4
FP-A124	PRICE	FDC	16	2720	820	0. 25"	0, 5"	40	35	2×3/4	277/1	64	106. 2	7. 5	5	130	100	1, 2, 3, 4
FP-A125	PRICE	FDC	16	2180	660	0. 25"	0. 5"	40	35	2×3/4	277/1	64	81. 7	5. 8	5	130	100	1, 2, 3, 4
FP-A128	PRICE	FDC	6	195	60	o. 25 "	0. 5"	25	20	1/8	277/1	64	5. 8	0. 5	5	130	100	1, 2, 3, 4
FP-A129	PRICE	FDC	8	625	190	0. 25"	0. 5"	28	22	1/4	277/1	64	14. 1	1. 0	5	130	100	1, 2, 3, 4
FP-A133	PRICE	FDC	16	1995	800	0. 25"	0, 5"	40	35	2x3/4	277/1	64	98. 4	6, 9	5	130	100	1, 2, 3, 4

SOUND DATA SHALL BE TAKEN FROM ARE STANDARD 880 (LATEST EDITION PUBLISHED DATA @ 1.5" DELTA P). NC RATINGS INCLUDE A RETURN INLET ATTENUATOR.

EXT. S.P. INCLUDES COIL APD.

COIL CAPACITIES ARE BASED UPON CFM AND 70% WATER/30% PROPYLENE GLYCOL. PROVIDE EXTERNAL DUCT COIL IF UNABLE TO MEET COIL MBH.

FAN POWERED VAV TERMINAL SCHEDULE (AHU-5)																		
UNIT	MANUF.	MODEL	INLET	CFM	MIN	TERM	EXT	RAD	DISCH	MOTOR		HEATIN	NG COIL					REMARKS
N□.		N□.	SIZE		CFM	S. P.	S. P.	NC	NC	HP	VOLT/PH	EAT	MBH	GPM	WPD	EWT	LWT	
FP-B101	PRICE	FDCQ2	14	1600	800	0. 25"	0. 5"	33	34	1/2	277/1	64	37. 7	2. 7	5	130	100	1, 2, 3, 4
DEMADES		•					•	1		•	•		•				•	

SOUND DATA SHALL BE TAKEN FROM ARE STANDARD 880 (LATEST EDITION PUBLISHED DATA @ 1.5° DELTA P).

NC RATINGS INCLUDE A RETURN INLET ATTENUATOR.

EXT. S.P. INCLUDES COIL APD. COIL CAPACITIES ARE BASED UPON CFM AND 70% WATER/30% PROPYLENE GLYCOL, PROVIDE EXTERNAL DUCT COIL IF UNABLE TO MEET COIL MBH.

JNIT	MANUF.	MODEL	INLET	CLG CFM	CLG CFM	HTG CFM	TERM	RAD	DISCH	HEATI	NG COIL					REMARKS
N □.		N□.	SIZE	MAX	MIN	MAX	S. P.	NC	NC	EAT	мвн	GPM	WPD	EWT	LWT	
VAV-B102	PRICE	SDV	6	325	100	160	0. 5″	20	21	55	5. 2	0, 5	5	130	100	1, 2, 3, 4
VAV-B103	PRICE	SDV	6	140	50	70	0. 5″	20	21	55	2, 3	0, 5	5	130	100	1, 2, 3, 4
VAV-B104	PRICE	SDV	6	140	50	70	0. 5″	20	21	55	2. 3	0. 5	5	130	100	1, 2, 3, 4
VAV-B105	PRICE	SDV	6	85	50	50	0. 5*	20	21	55	2. 0	0, 5	5	130	100	1, 2, 3, 4
VAV-B106	PRICE	SDV	6	85	50	50	0. 5"	20	21	55	2. 0	0. 5	5	130	100	1, 2, 3, 4
VAV-B107	PRICE	SDV	6	215	70	110	0, 5"	20	21	55	3. 6	0. 5	5	130	100	1, 2, 3, 4
VAV-B109	PRICE	SDV	10	780	240	390	0, 5"	23	24	55	12. 6	0. 9	5	130	100	1, 2, 3, 4
VAV-B111	PRICE	SDV	6	355	110	180	0, 5"	20	21	55	9. 7	1. 0	5	130	100	1, 2, 3, 4
VAV-B113	PRICE	SDV	6	265	80	135	0. 5"	20	21	55	4. 4	0. 5	5	130	100	1, 2, 3, 4
VAV-B114	PRICE	SDV	8	465	140	235	0, 5"	24	25	55	7. 6	0, 6	5	130	100	1, 2, 3, 4
VAV-B116	PRICE	SDV	6	240	80	80	0, 5"	20	21	55	3. 4	0. 5	5	130	100	1, 2, 3, 4
VAV-B118	PRICE	SDV	12	1200	360	600	0, 5"	25	26	55	19. 6	1. 4	5	130	100	1, 2, 3, 4
VAV-B157A	PRICE	SDV	16	2305	700	700	0. 5"	32	28	55	22. 9	1. 6	5	130	100	1, 2, 3, 4
VAV-B157B	PRICE	SDV	16	2305	700	700	0. 5"	32	28	55	22. 9	1. 6	5	130	100	1, 2, 3, 4
VAV-B157C	PRICE	SDV	16	2310	700	700	0, 5"	32	28	55	22. 9	1. 6	5	130	100	1, 2, 3, 4
VAV-B157D	PRICE	SDV	16	2310	700	700	0. 5"	32	28	55	22. 9	1. 6	5	130	100	1, 2, 3, 4

SOUND DATA SHALL BE TAKEN FROM ARE STANDARD 880 (LATEST EDITION PUBLISHED DATA @ 1.5" DELTA P).

TERMINAL S. P. INCLUDES COIL APD. COIL CAPACITIES ARE BASED UPON HTG CFM AND 70% WATER/30% PROPYLENE GLYCOL. PROVIDE EXTERNAL DUCT COIL IF UNABLE TO MEET COIL MBH. MINIMUM 2-ROW HEATING COIL.

FAN	POWE	RED	VAV	TER	RMINA	<u> </u>	CHE	DU	LE (AHU	-6)							
UNIT	MANUF.	MODEL	INLET	CFM	MIN	TERM	EXT	RAD	DISCH	MOTOR			NG COIL					REMARKS
N□. 		N□.	SIZE		CFM	S. P.	S. P.	NC 	NC .	HP	VOLT/PH	EAT	MBH T	GPM T	WPD -	EWT T	LWT	+
FP-B127	PRICE	FDCQ2	12	1245	380	0, 25*	0, 5"	33	34	1/2	277/1	64	36, 7	2. 6	5 	130	100	1, 2, 3, 4
P-B128	PRICE	FDC	10	955	290	0. 25*	0, 5"	29	26	1/2	277/1	64	21. 9	1. 6	5 	130	100	1, 2, 3, 4
FP-B131	PRICE	FDCQ2	12	1400	420	0. 25*	0. 5"	33	34	1/2	277/1	64	41. 6	3. 0	5	130	100	1, 2, 3, 4
FP-B132	PRICE	FDC	16	1665	500	0, 25*	0, 5"	40	35	2×3/4	277/1	64	55, 5	3. 9	5	130	100	1, 2, 3, 4
FP-B136	PRICE	FDC	16	1995	620	0. 25*	0. 5"	40	35	2×3/4	277/1	64	63. 7	4. 5	5	130	100	1, 2, 3, 4
FP-B140	PRICE	FDC	10	1100	375	0. 25*	0, 5"	29	26	1/2	277/1	64	25, 2	1. 8	5	130	100	1, 2, 3, 4
FP-C101	PRICE	FDC	8	180	55	0. 25"	0, 5"	25	20	1/8	277/1	64	5, 5	0. 7	5	130	100	1, 2, 3, 4
FP-C102	PRICE	FDC	12	1170	350	0. 25*	0. 5"	29	26	1/2	277/1	64	17. 7	1. 4	5	130	100	1, 2, 3, 4
FP-C103	PRICE	FDCQ2	14	1630	490	0. 25*	0, 5"	33	39	1/2	277/1	64	37. 0	2. 7	5	130	100	1, 2, 3, 4
FP-C105	PRICE	FDCQ2	12	1205	370	0. 25*	0. 5"	33	34	1/2	277/1	64	42. 0	3. 0	5	130	100	1, 2, 3, 4
FP-C106	PRICE	FDC	10	850	260	0. 25*	0. 5"	29	26	1/2	277/1	64	26. 8	1. 9	5	130	100	1, 2, 3, 4
FP-C107	PRICE	FDC	10	840	260	0. 25*	0, 5"	29	26	1/2	277/1	64	26. 2	1. 9	5	130	100	1, 2, 3, 4
FP-C108	PRICE	FDC	10	840	260	0. 25*	0. 5"	29	26	1/2	277/1	64	26. 2	1. 9	5	130	100	1, 2, 3, 4
FP-C109	PRICE	FDC	10	870	270	0. 25*	0, 5"	29	26	1/2	277/1	64	34. 1	2. 5	5	130	100	1, 2, 3, 4
FP-C110A	PRICE	FDC	16	1825	550	0. 25*	0. 5"	40	35	2×3/4	277/1	64	64. 3	4. 5	5	130	100	1, 2, 3, 4
FP-C110B	PRICE	FDC	16	1825	550	0. 25*	0. 5"	40	35	2×3/4	277/1	64	64. 3	4. 5	5	130	100	1, 2, 3, 4
FP-C116	PRICE	FDC	10	945	290	0. 25*	0, 5″	29	26	1/2	277/1	64	36. 8	2. 7	5	130	100	1, 2, 3, 4
FP-C117	PRICE	FDC	10	930	280	0. 25*	0. 5″	29	26	1/2	277/1	64	28. 0	2. 0	5	130	100	1, 2, 3, 4
FP-C118	PRICE	FDC	10	930	280	0. 25*	0. 5″	29	26	1/2	277/1	64	28. 0	2. 0	5	130	100	1, 2, 3, 4
FP-C119	PRICE	FDC	10	930	280	0. 25*	0, 5″	29	26	1/2	277/1	64	28. 5	2. 0	5	130	100	1, 2, 3, 4
FP-C120	PRICE	FDCQ2	12	1290	390	0. 25*	0. 5″	33	34	1/2	277/1	64	37. 2	2. 7	5	130	100	1, 2, 3, 4
P-C124	PRICE	FDC	10	780	235	0. 25*	0, 5″	29	26	1/2	277/1	64	14. 3	1. 0	5	130	100	1, 2, 3, 4
P-C127	PRICE	FDC	8	500	130	0, 25*	0, 5″	28	22	1/4	277/1	64	7, 8	0, 7	5	130	100	1, 2, 3,
P-E100	PRICE	FDCQ2	8	500	125	0. 25"	0. 5″	28	22	1/4	277/1	64	7. 8	0. 7	5	130	100	1, 2, 3,
P-E122	PRICE	FDCQ2	14	1630	490	0. 25"	0, 5"	33	39	1/2	277/1	64	37. 0	2. 7	5	130	100	1, 2, 3,
	PRICE	FDC	8	670	210	0. 25"	0. 5"	28	22	1/4	277/1	64	22. 0	1. 6	5	130	100	1, 2, 3,

SOUND DATA SHALL BE TAKEN FROM ARE STANDARD 880 (LATEST EDITION PUBLISHED DATA @ 1.5" DELTA P).

NC RATINGS INCLUDE A RETURN INLET ATTENUATOR. EXT. S.P. INCLUDES COIL APD.

COIL CAPACITIES ARE BASED UPON CFM AND 70% WATER/30% PROPYLENE GLYCOL. PROVIDE EXTERNAL DUCT COIL IF UNABLE TO MEET COIL MBH.

Į f	<u> </u>	CO		CH	<u> </u>	<u>.LE</u>	ER_	<u>SC</u>	CHE	<u>EDU</u>	LE	•																
				EVAPO						-		EVAPOR									TRICAL					DPERAT		
U	<u> 111 NO</u>	.MANUF.	MODEL NO.	MBH	EWT	LWT	WPD	GPM	<u>AMB</u>	TEMP	EER	MBH	EWT	LWT	WPD	GPM	AMB	TEMP	EER	VOLT	PHASE	MCA_	MOCP	STEPS	(DB)	WEIGHT	(LBS)	REMARKS
CH	1-1	TRANE	ACSA2002	2104	54	44	0. 5	272	95		9. 5	1524	32	23	1. 6	352	85	-	8. 3	460	3	403	450	6	99	9600		ALL
	-MADICO											•								-	-							

CAPACITY IS BASED ON 70% WATER/30% PROPYLENE GLYCOL.

EER IS BASED ON ARI STANDARD CONDITIONS. SOUND RATING BASED ON ARI-370 OVERALL "A" WEIGHTED SOUND POWER LEVEL.

UNIT SHALL BE MOUNTED ON NEOPRENE OR SPRING TYPE VIBRATION ISOLATORS AS DESIGNED BY THE MANUFACTURER.

PROVIDE FACTORY SINGLE POINT POWER CONNECTION. PROVIDE 65K SCCR CIRCUIT BREAKER.

AHL	SCH	HEDULE	<u> </u>																												
AHU	MANUF.	MODEL	CFM	MIN D/A	ESP TSP FAN		MOTOR			FAN		COOL	ING COIL CAPAC	ITY			HEATI	NG COIL CA	APACITY							PRE FIL	ER			OPER.	REMARKS
N□.		N□.		CFM	MHP	BHP	VOLTS/P	H MCA	MFS	TYPE/SIZE		RPM MBH	EAT	LAT FV API	EWT LV	NT GPM	WPD MBH	CFM	EAT	LAT	F۷	APD EWT	LWT	GPM	WPD	EFF ARE	_A(SF)	MAX FV API	D THIC	CK WT(LBS)	
AHU-1	TRANE	CSAA025	11500	3535	1, 50 3, 5 (2)	7. 5 10.	4 460/3	24. 8	35	(2) DD PLENU	12W2 "05 MI	2006 451	82. 7/66. 2	53, 3/53, 2 460 0, 3	'0 45 55	5 96. 7	7. 2 362	11500	51	80	465	0. 17 130	100	25. 0	4. 8	30% 50.	0	230 0. 5	55 2"	3710	1, 2, 3, 4, 5
AHU-2	TRANE	CSAA021	10780	3745	1. 50 3. 5 (2)	7. 5 9. 5	460/3	24. 8	35	(2) DD PLENU	ISWS "05 MI	1948 452	81. 7/65. 8	52. 0/51. 9 436 0. 6	7 45 55	5 98.0	19. 2 622	10780	43. 3	96. 5	436	0. 32 130	100	44. 0	4. 8	30% 50.	0	216 0. 5	55 2"	3775	1, 2, 3, 4, 5
4HU-3	TRANE	CSAA025	12850	2885	1. 50 3. 9 (2)	10 13.	4 460/3	24. 8	35	(2) DD PLENU	IM 22, 3" SWS	2180 385	79. 3/64. 0	54. 0/53. 6 515 0. 8	88 45 55	5 83, 5	11.8 481	12850	54. 5	89	534	0. 42 130	100	34. 5	1, 5	30% 50.	0	257 0. 5	56 2"	5535	1, 2, 3, 4, 5
AHU-4	TRANE	CSAA010	4765	940	1. 50 3. 7 (2)	3 4. 7	460/3	10. 8	15	(2) DD PLENU	IM 12. 3" SWS	3582 157	79. 9/64. 7	54. 4/53. 8 490 0. 6	45 55	5 34. 0	10. 5 126	4765	55. 6	80	477	0. 18 130	100	9. 0	1. 0	30% 13.	9	343 0. 5	59 2"	2055	1, 2, 3, 4, 5
AHU-5	TRANE	CSAA030	14620	3740	1. 50 3. 6 (2)	7. 5 12.	4 460/3	24. 8	35	(2) DD PLENU	IM 22, 3" SWS	1774 526	80. 5/64. 7	52. 6/52. 5 489 0. 3	77 45 55	5 114.0	10. 7 290	14620	61. 6	80	489	0. 14 130	100	21. 0	1. 7	30% 56.	7	258 0. 5	56 2"	4165	1, 2, 3, 4, 5
AHU-6	TRANE	CSAA080	39875	11040	2. 50 4. 3 (4)	15 40.	2 460/3	89. 3	110	(4) DD PLENU	JM 24.5" SWS	1783 1504	82. 1/65. 4	52. 8/52. 7 506 0. 6	6 45 55	326. 0	22. 9 1125	39875	54	80	506	0. 20 130	100	80. 0	3, 8	30% 15:	. 1	264 0. 5	56 2"	13515	1, 2, 3, 4, 5
AHU-7	TRANE	CSAA066	34275	10900	2. 50 4. 4 (4)	15 35.	6 460/3	59. 5	$\overline{}$					53. 0/52. 9 435 0. 5	6 45 55	5 312. 0	19. 0 1116	34275	50	80	435	0. 15 130	100	80. 0	3, 8	30% 15:	. 1	227 0. 5	55 2"	12950	1, 2, 3, 4, 5
					1 1																										

HEATING AND COOLING COIL CAPACITIES ARE BASED ON 70% WATER/30% PROPYLENE GLYCOL,

PROVIDE A SUPPLY FAN VFD. ESP INCLUDES AN ALLOWANCE OF 0.5" FOR DIRTY FILTERS.

ACCESS SHALL BE PROVIDED INTO THE FILTER SECTION, BLENDER SECTION, BETWEEN THE HEATING AND COOLING COILS AND FAN SECTION. PROVIDE 15 INCH (MIN.) DOORS AND 18 INCH (MIN.) SPACE BETWEEN COILS. PROVIDE HEAVY DUTY 18 GAUGE STAINLESS STEEL DRAIN PANS FOR COMPLETE DRAINAGE AND WALKING TRAFFIC.

VAV T	TERMINA	AL SCI	HEDU	LE (A	HU-6>											
UNIT	MANUF.	MODEL	INLET	CLG CFM	CLG CFM	HTG CFM	TERM	RAD	DISCH	HEATI	NG COIL					REMARKS
N□.		N□.	SIZE	MAX	MIN	MAX	S. P.	NC	NC	EAT	MBH	GPM	WPD	EWT	LWT	
VAV-B122A	PRICE	SDV	12	1050	320	320	0, 5″	25	26	55	10. 1	0. 7	5	130	100	1, 2, 3, 4
VAV-B122B	PRICE	SDV	14	1575	480	480	0. 5″	32	28	55	15. 1	1. 4	5	130	100	1, 2, 3, 4
VAV-B122C	PRICE	SDV	14	1575	480	480	0. 5"	32	28	55	15. 1	1. 4	5	130	100	1, 2, 3, 4
VAV-B123	PRICE	SDV	8	585	180	180	0, 5″	24	25	55	5. 9	0. 5	5	130	100	1, 2, 3, 4
VAV-B135	PRICE	SDV	10	730	220	220	0. 5″	23	24	55	7. 2	0. 6	5	130	100	1, 2, 3, 4
VAV-B142	PRICE	SDV	6	265	80	100	0. 5″	20	21	55	5. 4	0. 5	5	130	100	1, 2, 3, 4
VAV-C114	PRICE	SDV	6	270	90	90	0, 5"	20	21	55	3. 9	0, 5	5	130	100	1, 2, 3, 4
VAV-C115	PRICE	SDV	6	270	90	90	0, 5"	20	21	55	3, 9	0, 5	5	130	100	1, 2, 3, 4
VAV-C128	PRICE	SDV	16	2460	740	2200	0, 5"	32	28	55	108. 1	7. 6	5	130	100	1, 2, 3, 4
VAV-C133	PRICE	SDV	6	225	70	70	0, 5"	20	21	55	3. 0	0, 5	5	130	100	1, 2, 3, 4
VAV-E124	PRICE	SDV	6	140	50	70	0. 5"	20	21	55	3. 0	0, 5	5	130	100	1, 2, 3, 4
DEMADAS	-	•	•	•	•	•	•	•	•	•	•	•	•	•	•	

SOUND DATA SHALL BE TAKEN FROM ARE STANDARD 880 (LATEST EDITION PUBLISHED DATA @ 1.5° DELTA P). TERMINAL S. P. INCLUDES COIL APD.

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MINIMUM 2-ROW HEATING COIL.

FAN	POWE	RED	VAV	TER	MINA	L S	CHE	DUL	E (AHU-	-7)							
UNIT ND.	MANUF.	MODEL NO.	INLET SIZE	CFM	MIN CFM	TERM S. P.		RAD NC	DISCH NC	MOTOR HP	VOLT/PH	HEAT I EAT	NG COIL MBH	GPM	WPD	EWT	LWT	REMARKS
FP-D100	PRICE	FDC	8	420	130	0. 25"	0. 5"	28	22	1/4	277/1	64	6. 6	0. 7	5	130	100	1, 2, 3, 4
FP-D103A	PRICE	FDC	16	1995	610	0. 25"	0. 5"	40	35	2×3/4	277/1	64	67. 6	4. 8	5	130	100	1, 2, 3, 4
FP-D103B	PRICE	FDC	16	1995	610	0. 25*	0, 5"	40	35	2×3/4	277/1	64	67. 6	4, 8	5	130	100	1, 2, 3, 4
FP-D104	PRICE	FDCQ2	12	1510	460	0. 25"	0, 5"	33	34	1/2	277/1	64	46. 9	3. 3	5	130	100	1, 2, 3, 4
FP-D105	PRICE	FDC	10	920	280	0. 25 "	0. 5"	29	26	1/2	277/1	64	28. 2	2. 0	5	130	100	1, 2, 3, 4
FP-D106	PRICE	FDC	10	920	280	0. 25"	0, 5"	29	26	1/2	277/1	64	28. 2	2. 0	5	130	100	1, 2, 3, 4
FP-D107	PRICE	FDC	10	920	280	0. 25 "	0, 5"	29	26	1/2	277/1	64	28. 2	2. 0	5	130	100	1, 2, 3, 4
FP-D108	PRICE	FDC	10	930	280	o. 25 "	0. 5"	29	26	1/2	277/1	64	36. 5	2. 6	5	130	100	1, 2, 3, 4
FP-D112	PRICE	FDC	10	840	260	0. 25"	0. 5"	29	26	1/2	277/1	64	14. 7	1. 0	5	130	100	1, 2, 3, 4
FP-D114	PRICE	FDC	10	990	300	o. 25 "	0. 5"	29	26	1/2	277/1	64	37. 7	2. 7	5	130	100	1, 2, 3, 4
FP-D115	PRICE	FDC	10	965	290	0. 25"	0, 5"	29	26	1/2	277/1	64	29. 1	2. 1	5	130	100	1, 2, 3, 4
FP-D116	PRICE	FDC	10	965	290	0. 25"	0. 5"	29	26	1/2	277/1	64	29. 1	2. 1	5	130	100	1, 2, 3, 4
FP-D117	PRICE	FDC	10	965	290	o. 25 "	0. 5"	29	26	1/2	277/1	64	29. 1	2. 1	5	130	100	1, 2, 3, 4
FP-D118	PRICE	FDCQ2	14	1570	480	0. 25"	0, 5"	33	39	1/2	277/1	64	48. 1	3, 4	5	130	100	1, 2, 3, 4
FP-E103A	PRICE	FDC	16	1960	590	0. 25"	0. 5"	40	35	2×3/4	277/1	64	66. 8	4. 7	5	130	100	1, 2, 3, 4
FP-E103B	PRICE	FDC	16	1960	590	0. 25"	0. 5"	40	35	2×3/4	277/1	64	66. 8	4. 7	5	130	100	1, 2, 3, 4
FP-E106	PRICE	FDCQ2	12	1290	390	0. 25*	0. 5"	33	34	1/2	277/1	64	37. 1	2. 7	5	130	100	1, 2, 3, 4
FP-E107	PRICE	FDC	10	930	280	0. 25*	0, 5"	29	26	1/2	277/1	64	28. 4	2, 0	5	130	100	1, 2, 3, 4
FP-E108	PRICE	FDC	10	930	280	0. 25*	0, 5"	29	26	1/2	277/1	64	27. 9	2, 0	5	130	100	1, 2, 3, 4
FP-E109	PRICE	FDC	10	930	280	0. 25*	0. 5"	29	26	1/2	277/1	64	27. 9	2. 0	5	130	100	1, 2, 3, 4
FP-E110	PRICE	FDC	10	930	280	0. 25"	0, 5"	29	26	1/2	277/1	64	36, 5	2. 6	5	130	100	1, 2, 3, 4
FP-E114	PRICE	FDC	10	840	260	0. 25*	0, 5"	29	26	1/2	277/1	64	14. 7	1. 0	5	130	100	1, 2, 3, 4
FP-E116	PRICE	FDC	10	870	270	0. 25"	0. 5"	29	26	1/2	277/1	64	35. 4	2. 5	5	130	100	1, 2, 3, 4
FP-E117	PRICE	FDC	10	840	260	0, 25"	0. 5"	29	26	1/2	277/1	64	26. 2	1. 8	5	130	100	1, 2, 3, 4
FP-E118	PRICE	FDC	10	840	260	0. 25"	0. 5"	29	26	1/2	277/1	64	26. 2	1. 8	5	130	100	1, 2, 3, 4
FP-E119	PRICE	FDC	10	840	260	0, 25"	0. 5"	29	26	1/2	277/1	64	26. 7	1. 9	5	130	100	1, 2, 3, 4
FP-E120	PRICE	FDCQ2	12	1205	370	0. 25"	0. 5″	33	34	1/2	277/1	64	41. 9	3. 0	5	130	100	1, 2, 3, 4

SOUND DATA SHALL BE TAKEN FROM ARE STANDARD 880 (LATEST EDITION PUBLISHED DATA @ 1.5° DELTA P).

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VAV T	ERMINA IMANUF.	MODEL	HEDU TINLET	CLG CFM	HU-7)	HTG CFM	TERM	RAD	DISCH	ПЕДТІ	NG COIL					REMARKS
N□.	MANOL	ND.	SIZE	MAX	MIN	MAX	S. P.	NC	NC NC	EAT	MBH	- GPM	WPD	EWT	LWT	IKLIIHKK3
VAV-D113	PRICE	SDV	6	270	90	90	0. 5"	20	21	55	3. 9	0. 5	5	120	100	1, 2, 3, 4
VAV-D113A	PRICE	SDV	6	270	90	90	0. 5"	20	21	55	3. 9	0. 5	5	120	100	1, 2, 3, 4
VAV-E102	PRICE	SDV	6	225	70	70	0. 5"	20	21	55	3. 0	0. 5	5	120	100	1, 2, 3, 4
VAV-E134	PRICE	SDV	6	270	90	90	0. 5"	20	21	55	3. 9	0. 5	5	120	100	1, 2, 3, 4
VAV-E135	PRICE	SDV	6	270	90	90	0. 5"	20	21	55	3. 9	0, 5	5	120	100	1, 2, 3, 4

SOUND DATA SHALL BE TAKEN FROM ARE STANDARD 880 (LATEST EDITION PUBLISHED DATA @ 1.5° DELTA P). TERMINAL S. P. INCLUDES COIL APD.

COIL CAPACITIES ARE BASED UPON HTG CFM AND 70% WATER/30% PROPYLENE GLYCOL. PROVIDE EXTERNAL DUCT COIL IF UNABLE TO MEET COIL MBH. MINIMUM 2-ROW HEATING COIL.

AN I□.	MANUFACTURER	MODEL NO.	TYPE	LOCATION	CFM	S. P.	RPM	TIP SPEED (FPM)	MOTOR MHP	BHP	ELEC.	PH	SONES	REMARKS
F-A106	GREENHECK	G-065-G	DOWNBLAST	ROOF	100	0. 25	1300	2765	1/60	0, 01	115	1	2. 7	
EF-A117	GREENHECK	GB-180-5	DOWNBLAST	ROOF	2275	0. 375	728	3524	1/2	0. 29	115	1	7. 6	
F-B108	GREENHECK	GB-360-50	DOWNBLAST	ROOF	16100	0. 25	633	5964	5	4. 07	460	3	25	1
EF-B121	GREENHECK	G-098-B	DOWNBLAST	ROOF	625	0. 375	1140	3320	1/6	0. 08	115	1	5. 0	
EF-B123	GREENHECK	GB-420-50	DOWNBLAST	ROOF	18750	0. 25	485	5362	5	4. 18	460	3	21	1
EF-B131	GREENHECK	GB-141-3	DOWNBLAST	ROOF	1400	0. 375	972	3722	1/3	0. 22	115	1	7. 5	
EF-B132	GREENHECK	GB-101-4	DOWNBLAST	ROOF	815	0. 375	1237	3602	1/4	0. 13	115	1	6. 4	
EF-B133	GREENHECK	CUBE-099-4	UPBLAST	ROOF	300	0. 375	978	2865	1/4	0, 06	115	1	4. 6	
EF-B138	GREENHECK	CUBE-099-4	UPBLAST	ROOF	300	0. 375	978	2865	1/4	0, 06	115	1	4. 6	
EF-B141	GREENHECK	GB-161-5	DOWNBLAST	ROOF	2500	0. 25	965	4199	1/2	0, 39	115	1	12. 1	
EF-B145	GREENHECK	GB-141-4	DOWNBLAST	ROOF	1225	0. 375	899	3444	1/4	0. 18	115	1	6. 7	
EF-B148	GREENHECK	G-065-G	DOWNBLAST	ROOF	125	0. 25	1300	2765	1/60	0. 01	115	1	2. 7	
EF-B154A	GREENHECK	USGF-200HP-20	UPBLAST	ROOF	3500	1. 5	1250	7120	2	1. 72	460	3	24	2
F-B154B	GREENHECK	USGF-200HP-20	UPBLAST	ROOF	3500	1. 5	1250	7120	2	1. 72	460	3	24	2
EF-B156	GREENHECK	GB-101-4	DOWNBLAST	ROOF	900	0. 5	1392	4054	1/4	0, 18	115	1	7. 7	
EF-C105	GREENHECK	CUBE-141-4	UPBLAST	ROOF	1220	0. 375	921	3528	1/4	0. 18	115	1	7. 5	
EF-C110	GREENHECK	GB-360-50	DOWNBLAST	ROOF	16000	0. 25	629	5930	5	4. 01	460	3	25	1
EF-C112	GREENHECK	GB-101-4	DOWNBLAST	ROOF	800	0. 25	1184	3448	1/4	0. 12	115	1	6, 2	
EF-C120	GREENHECK	CUBE-141-4	UPBLAST	ROOF	1300	0. 375	952	3646	1/4	0. 2	115	1	7. 9	
EF-D103	GREENHECK	GB-360-75	DOWNBLAST	ROOF	16925	0. 25	662	6241	7. 5	4. 65	460	3	28	1
EF-D104	GREENHECK	CUBE-161-4	UPBLAST	ROOF	1400	0. 375	732	3186	1/4	0. 18	115	1	7. 8	
EF-D110	GREENHECK	GB-101-4	DOWNBLAST	ROOF	1150	0. 375	1574	4585	1/4	0. 24	115	1	9. 7	
EF-D118	GREENHECK	CUBE-161-4	UPBLAST	ROOF	1460	0. 375	746	3247	1/4	0. 19	115	1	8. 0	
EF-E103	GREENHECK	GB-360-50	DOWNBLAST	ROOF	15850	0. 25	624	5880	5	3. 91	460	3	25	1
EF-E104	GREENHECK	G-065-G	DOWNBLAST	ROOF	125	0. 25	1300	2765	1/60	0. 01	115	1	2. 7	
EF-E106	GREENHECK	CUBE-141-4	UPBLAST	ROOF	1300	0, 375	952	3646	1/4	0, 2	115	1	7. 9	
EF-E112	GREENHECK	GB-101-4	DOWNBLAST	ROOF	800	0. 25	1184	3448	1/4	0. 12	115	1	6. 2	
EF-E120	GREENHECK	CUBE-141-4	UPBLAST	ROOF	1220	0, 375	921	3528	1/4	0. 18	115	1	7, 5	
ΓF-A113	GREENHECK	BSQ-160-5	INLINE	CEILING	2200	0, 5	974	4240	1/2	0. 4	115	1	9, 5	
ΓF-B147A	GREENHECK	BSQ-180-10	INLINE	CEILING	2800	0, 5	991	4798	1	0. 73	460	3	12. 8	
TF-B147B	GREENHECK	BSQ-180-10	INLINE	CEILING	2800	0. 5	991	4798	1	0. 73	460	3	12. 8	

SYMBOL	MANUF.	CONSTR	MODEL	MAX	OVERALL	THROAT	NC	THROW	TOTAL PD	FRAME	PATTERNS	REMARKS
		MAT"L	ND.	CFM	SIZE	SIZE			(IN. W. G.)			
₹1	KRUEGER	Α	5880	200	10/10	8/8	20	20	0. 08	SURFACE	מס	
₹2	KRUEGER	Α	5880	400	18/10	16/8	19	37	0. 05	SURFACE	DD	
R3	KRUEGER	Α	DMGDR	510	10/22	8/20	28	32	0. 07	DUCT MNT	DD	
R4	KRUEGER	S	880	560	20/12	18/10	27	20	0. 08	SURFACE	DD	
R5	KRUEGER	S	880	1230	32/14	30/12	27	50	0. 08	SURFACE	DD	
R6	KRUEGER	S	880	720	24/12	22/10	20	49	0. 05	SURFACE	DD	
D1	KRUEGER	2	PLQ	230	24/24	8″ ø	26	12	0. 08	LAY-IN	4-WAY	
D2	KRUEGER	S	PLQ	430	24/24	10 ″ ø	26	17	0. 08	LAY-IN	4-WAY	
D3	KRUEGER	2	PLQ	575	24/24	12 ″ ø	30	20	0. 10	LAY-IN	4-WAY	
D4	KRUEGER	Α	56500	370	24/24	12 ″ ø	20	22	0. 05	LAY-IN	PERF	
G1	KRUEGER	Α	EGC5	1400	24/24	22/22	15		0. 03	LAY-IN	1/2" GRID	
G2	KRUEGER	Α	EGC5	620	24/12	22/10	15		0. 03	LAY-IN	1/2" GRID	
G3	KRUEGER	Α	EGC5	650	14/14	12/12	25		0. 08	SURFACE	1/2" GRID	
5 4	KRUEGER	S	\$480	2040	50/20	48/18	30		0. 03	SURFACE	SD	
3 5	KRUEGER	S	\$480	5390	44/38	42/36	31		0. 03	SURFACE	SD	
<u></u>	KRUEGER	S	280	2880	50/26	48/24	22		0. 03	SURFACE	SD	

A - ALUMINUM CONSTRUCTION.

S - STEEL CONSTRUCTION.

LEGEND: - REGISTER - GRILLE

SD - SINGLE DEFLECTION DD - DOUBLE DEFLECTION - DIFFUSER

GENERAL NOTES:

THROWS ARE BASED ON TERMINAL VELOCITIES AT 50 FPM. NC VALUES ARE BASED UPON A 10dB ROOM ATTENUATION. SEE SPECIFICATIONS FOR OPPOSED BLADE DAMPER REQUIREMENTS.

REMARKS:

CO	NDENSIN	NG UNI	T SC	HEDUL	_E									
UNIT	MANUFACTURER	MODEL NO.	MATCHED	CAPACITY	AMB. AIR	SUCT.	ELECTR	ICAL	_		CAP.	MIN	OPER.	REMARKS
N□.			AHU	(MBH)	TEMP.	TEMP.	VOLTS	PH	MCA	MFS	RED.	EER	WT. (LBS)	
CU-1	CARRIER	38MVC012-3	DSS-1	12	95	45	208	1	9	15	1	13	79	1, 2, 3
REMAR	KS:	,	${\sqrt{1}}$											

PROVIDE CUSTOM WIND BAFFLES PER MANUFACTURERS RECCOMMENDATIONS. PROVIDE FACTORY LOW AMBIENT KIT FOR OPERATION DOWN TO -20 DEGREES.

PROVIDE CRANKCASE HEATER.

COLOR BY ARCHITECT.

ΚI	TCHEN	HDD	D :	SCHE	DUL	E								
HOOD	MANUFACTURER	MODEL	TYPE	LENGTH	WIDTH	HEIGHT	CFM	STATIC	EXHAUST	COLLAR	MATERIAL	UL	MATCHED	REMARKS
NO.		NO.						(IN. W. C.)	COLLAR	LOCATION		LISTING	FAN	
KH-1	GREENHECK	GHEW	I	186"	60"	30"	3500	0. 50	33"×10"	TOP	430 SS	710	EF-B154A	1, 2, 3
KH-2	GREENHECK	GHEW	I	186"	60″	30"	3500	0, 50	33"×10"	TOP	430 SS	710	EF-B154B	1, 3, 4

PROVIDE STAINLESS STEEL BAFFLE FILTERS, 4 LIGHT FIXTURES, 3" BACK AIR SPACE, GREASE GUTTER AND DRAIN.

PROVIDE 12" END CABINET WITH WET CHEMICAL FIRE SUPPRESSION SYSTEM. SEE SPEC FOR MORE DETAIL. PROVIDE 18"X186" STAINLESS STEEL FRONT MOUNTED PLENUM WITH PERFORATED GRILLE, 1900 CFM MAX. PROVIDE 12" END CABINET FOR MOTOR CONTROL CENTER AND ELECTRICAL CONTROLS.

LOUVER SCHEDULE MANUFACTURER MODEL W X H X D HT AFF AREA S. F. 76×24×6 8′ –4**″** 444 _VR-1 GREENHECK ESD-635 LVR-2 GREENHECK ESD-635 144×96×6 3' - 6" <u>|</u>39875 | <u>6</u>35 0, 06 LVR-3 GREENHECK ESD-635 62. 75 144×96×6 3′ - 6″ 34275 546

DUST COLLECTOR SCHEDULE COLLECTOR MANUFACTURER MODEL NO. S. P. FAN MOTOR REMARKS ELEC. 4. 8 1. 5 460/3 STERNVENT DG 201 . PROVIDE FACTORY DISCHARGE SILENCER.

DUCTLESS SPLIT SYSTEM - INDOOR UNIT SCHEDULE MANUFACTURER HP VOLT/PH FLA MBH EAT LAT WT(LBS) 40MVC012-3 425 0. 25 | 0. 044 | 208/1 | 1. 18 | 12 | 80/67 | 58/56 | 26 | 1, 2 CARRIER

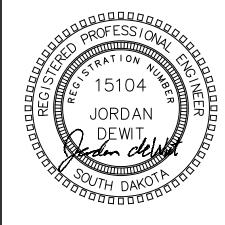
POWER IS SUPPLIED FROM CONDENSING UNIT CU-1. PROVIDE FACTORY CONDENSATE PUMP.

HEATING COIL SCHEDULE HC-B154B 8/8 COIL CAPACITY IS BASED UPON HTG CFM AND 70% WATER/30% PROPYLENE GLYCOL.

Architecture Incorporated

415 South Main Avenue P.O. Box 2140 Sioux Falls, South Dakota 57101 Phone: (605) 339-1711

815 St Joseph Street, Suite 203 P.O. Box 8047 Rapid City, South Dakota 57701 Phone: (605) 721-1158





Engineering, Incorporated 340 S. Phillips Ave.

Sioux Falls, S.D. 57104 (605) 335-3720 Fax 335-6220 E-mail acei@aceinet.com

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number 1002.2903.20

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date September 10, 2021

drawn Jd checked Jd DESCRIPTION 1 9/27/21 ADDENDUM #1