Addendum No. 2 January 19, 2024

Project:	Lennox High School Addition
·	Lennox, South Dakota
	Architecture Incorporated Project No.: 2982

Architect: Architecture Incorporated

Letting: Thursday, January 25, 2024 2:00 p.m. (prevailing time)

Location: Lennox School District Administrative Conference Room located at 305 West 5th Avenue, Lennox, SD 57039.

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:

1) <u>GENERAL CLARIFICATIONS</u>

- a) Any / all <u>interior</u> room signage will be furnished and installed by the Owner.
- b) Exterior aluminum signage is in the contract as specified per Addendum #2; see below.
- c) Audio Video Lighting drawing Sheets are being included for the Contractor's use / reference only; seven (7) pages total.
 - i. Reference A/V drawings Sheets AV-001, AV-002, AV101, AV102, AV103, AV-201 & AV211, all dated 12-21-23, attached to the end of this addendum.
 - i. CLARIFICATION: Per his Base Bid, the electrical contractor shall be responsible for furnishing all necessary AV raceways and boxes as indicated per the AV drawing Sheets; reference the electrical drawing Sheets for additional information / coordination.
- d) Reference supplemental architectural drawing SD-3, dated 1-19-24, attached to the end of this addendum for clarifications to the sound chamber plan details, specifically regarding hardwood veneer plywood paneling. Reference additional information in addendum Item #3.

2) <u>SECTION 011000 - SUMMARY</u>

a) Paragraph 1.5.D. Work Sequence for Phase One: Add the following: The Tennis courts, alternates #2 and #3 if accepted by the Owner shall have substantial completion by August 16, 2024. Final completion of all push list items shall be completed by August 30, 2024.

3) <u>062023 INTERIOR FINISH CARPENTRY</u>

a) Add the following to Section 062023:

i. PANELING

(1) Hardwood Veneer Plywood Paneling: Manufacturer's stock hardwood plywood panels complying with HPVA HP-1, made without urea-formaldehyde adhesive.

- (a) Face Veneer Species and Cut: [Plain-sliced red oak]
- (b) Veneer Matching: [Random match].
- (c) Backing Veneer Species: [Any hardwood compatible with face species].
- (d) Construction: Veneer core.
- (e) Thickness: 3/8".
- (f) Panel Size: As needed to match application shown on drawings.
- (g) Glue Bond: Type II (interior).
- (h) Finish: Stained as indicated in Section 099300.
- (i) Location: Theater recesses.

4) <u>SECTION 096816 - SHEET CARPETING</u>

a) CLARIFICATION: All sheet carpeting to be installed in the most economical direction for each room.

5) <u>SECTION 123216 – MANUFACTURED PLASTIC-LAMINATE-FACED CASEWORK</u>

- a) CLARIFICATION:
 - i. The following cabinet drawer construction shall be deemed acceptable:
 - (1) 5/8" thick dovetailed drawer boxes made from hardwood.
 - (2) Drawer floors made from ¹/₄" UV Birch in a captured dado.
 - (3) Blum undermount glides; full access; with soft closure mechanism. Heavy-duty glides provided where specified.

6) <u>SECTION 230800 – VENTILATION & AIR CONDITIONING</u>

- a) Modify Article 1.06 ENERGY RECOVERY VENTILATOR as follows:
 - i. ERV: Delete bypass dampers.

7) <u>SHEET 2.20 – SITE DEMOLITION</u>

a) Omit references to extent of existing asphalt paving and curb and gutter to be removed. The extent and location of asphalt paving and curb and gutter demolition is shown and noted on drawing 2.30.

8) <u>SHEET 3.20-D – FOUNDATION PLAN – AREA D</u>

- a) Reference door G118-2 (between Corridor D119 and Lobby G118); see architectural drawing Sheet 4.10-D.
 - i. Sawcut the top of the existing foundation wall down 8" to allow the new slab-on-grade to pour on top of the existing foundation wall.

9) <u>SHEET 3.21-G – MEZZANINE FLOOR & LOW ROOF FRAMING – AREA G</u>

- a) Reference revised structural drawing Sheet 3.21-G, revision dated 1-18-24, attached to the end of this addendum for the following:
 - i. Change detail reference of 17/3.51 (cut along the edge of the north and south mezzanine floor) to detail 22/3.51.
 - ii. Add beam size tag along gridline G4 between grids GA and GC per the clouded revision on the attached revised sheet.

- iii. Change detail reference of 17/3.51 cut along the west edge of the mezzanine floor to 4/3.50 as shown within the clouded revision on the attached revised sheet.
- iv. Add reference detail 4/3.50 SIM to north and south ends of raker framing to precast walls per the clouded revision on the attached revised sheet.

10) <u>SHEET 3.22-G – CATWALK FRAMING – AREA G</u>

- a) CLARIFICATION: The Contractor shall reference architectural drawing Sheet 4.12-G for the extent of ¹/₂" plywood required to be installed over metal decking at the catwalk area that parallels the north wall of Theater G105.
 - i. Provide a plywood-covered walkway 48" wide as indicated per Sheet 4.12-G; full plywood coverage of metal decking at deck Type D4 in this vicinity is shown incorrectly on Sheet 3.22-G.

11) SHEET 3.41 – DETAILS - FOUNDATION

a) Detail 9: Change 12" thick pre-cast concrete wall and 12" thick cast-in-place foundation wall to 14" thick. Center #6 vertical bars in the center of the 14" thick cast-in-place foundation wall.

12) <u>SHEET 3.42 – DETAILS - FOUNDATION</u>

a) Detail 1: Add ¹/₂" dia. X 3" long HAS @ 24"oc to the bottom of the L3x3x1/16 x cont. angle. Add #4 dowels @ 24"oc; reference the clouded area on revised structural drawing Sheet 3.42, revision dated 1-18-24, attached to the end of this addendum.

13) SHEET 3.50 – DETAILS - PRECAST

a) Detail 13: Add L6x4x3/8 X cont. pour stop for concrete topping. Add ¼"x6"x6" embed plate @ 2'-0" o.c.
 w/ (2) ½" dia x 4" HSA for angle connection. Add weld notes for pour stop to plank connection, and guardrail to pour stop connection; reference the clouded area on revised structural drawing Sheet 3.50, revision dated 1-18-24, attached to the end of this addendum.

14) <u>SHEET 3.51 - DETAILS - MASONRY</u>

- a) Reference revised structural drawing Sheet 3.51, revision dated 1-18-24, attached to the end of this addendum for the following:
 - i. Detail 11: Add 3/16"x2" long fillet weld between the ¼"x4" CONT. PLATE and the L4x4x4x1/4.
 - ii. Add detail 22.
- b) CLARIFICATION: Detail 20 Follow general framing notes for deck edge support.

15) <u>SHEET 3.67 – DETAILS – FRAMING</u>

- a) Reference revised structural drawing Sheet 3.51, revision dated 1-18-24, attached to the end of this addendum for the following:
 - i. Detail 1: Add Iweiss clip and bolt to catwalk hangers at every third pipe of pipe grid.
 - ii. Detail 4: Add Iweiss wall stabilizer bracket every 4th pipe attached to concrete wall.

16) <u>SHEET 3.68 – DETAILS – FRAMING</u>

a) Detail 5: Add L6X4X5/16" angle between catwalks for toe kicks. Attach angle to W14x22 with 3/16" fillet weld at 2@12" oc spacing; reference the clouded area on revised structural drawing Sheet 3.68, revision dated 1-18-24, attached to the end of this addendum.

17) <u>SHEET 4.00-D – DEMOLITION PLAN – FIRST FLOOR</u>

a) The demolition floor plan note which reads "REMOVE DOORS" at the east end of Corridor D100A shall be changed to read:

REMOVE DOOR LEAFS; EXISTING LINTEL AND DOOR FRAME TO REMAIN

b) Reference existing storage room D118. The existing south exterior door note shall be changed to remove existing hollow metal door and hardware. Salvage hardware to the owner, existing frame to remain.

18) <u>SHEET 4.10-E – FLOOR PLAN – AREA E</u>

- a) Reference *revised* drawing Sheet 4.10-E, dated 1-18-24, attached to the end of this addendum for following:
 - i. Locker Room E115, omit note regarding 87 lockers. Provide locker quantity as shown.
 - ii. Provide 2" of rigid insulation beneath the concrete floor slabs at all in-floor heat locations in Fitness Room E103, Lobby F101 and Vestibule F100 as shown on attached drawing 4.10-E.

19) <u>SHEET 4.10-F – FLOOR PLAN – AREA F – BASE BID</u>

a) Reference *revised* drawing Sheet 4.10-F, dated 1-18-24, attached to the end of this addendum for identification of floor slab areas in Lobby F101 and Vestibule F100 that shall be provided with under-slab insulation.

20) <u>SHEET 4.10-F-A – FLOOR PLAN – AREA F – ADD ALTERNATES</u>

a) Reference *revised* drawing Sheet 4.10-F-A, dated 1-18-24, attached to the end of this addendum for identification of floor slab areas in Lobby F101 and Vestibule F100 that shall be provided with under-slab insulation.

21) <u>SHEET 4.11-F – MEZZANINE PLAN – AREA F – BASE BID</u>

a) CLARIFICATION: The dimensions shown at the northeast corner of Lobby F101 shall be changed to match the new aluminum storefront clerestory window (Base Bid) dimensions / layout identified per *revised* architectural drawing Sheet 5.14; reference revised drawing Sheet 5.14 which is attached to the end of this addendum.

22) <u>SHEET 4.11-F-A – MEZZANINE PLAN – AREA F – ADD ALTERNATE</u>

a) CLARIFICATION: The dimensions shown at the northeast corner of Lobby F101 shall be changed to match the new aluminum storefront clerestory window (Add Alternate #1) dimensions / layout identified per *revised* architectural drawing Sheet 5.14; reference revised drawing Sheet 5.14 which is attached to the end of this addendum.

23) <u>SHEET 4.20-E FINISH PLAN AREA E</u>

- a) E103 Fitness Room: Add T-2 wall finish to room finish schedule. Provide T-2 at Electric Water Cooler as shown on finish plan.
- b) E110 Shower: Provide T-2 at shower walls extending the full length of the east wall.
- c) E117 Shower: Provide T-2 at shower walls extending the full length of the west wall.

24) <u>SHEET 4.20-F FINISH PLAN AREA F</u>

a) F101 Lobby: Add T-4 and T-6 to room finish schedule. Provide T-4 and T-6 on wall at Electric Water Cooler as shown per interior elevation 2/4.51.

25) <u>SHEET 4.20-F-A FINISH PLAN AREA F – ADD ALTERNATE</u>

a) F101 Lobby: Add T-4 and T-6 to room finish schedule. Provide T-4 and T-6 on wall at Electric Water Cooler as shown per interior elevation 2/4.51.

26) <u>SHEET 4.40- ENLARGED PLANS – RESTROOM, LOCKER ROOM & CONCESSIONS</u>

- a) Refence *revised* drawing Sheet 4.40, dated 1-18-24, attached to the end of this addendum for the following:
 - i. The Contractor shall include furnishing and installing metal trim / filler panels and sloped locker tops where the lockers form inside corners. Reference the NW & SW corners of Locker E115 and the NE & SE corners of Locker E108.
 - ii. The Contractor shall include furnishing and installing metal trim / filler panels and sloped locker tops where the lockers abut CMU walls in Locker E115 and Locker E108, as indicated per revised drawing Sheet 4.40.
 - iii. Provide an additional 16" of CMU wall at the entrance to Locker E115 to prevent line of sight issues as indicated per revised drawing Sheet 4.40.
 - iv. Provide an additional 16" of CMU wall at the entrance to Locker E108 to prevent line of sight issues as indicated per revised drawing Sheet 4.40.

27) <u>SHEET 5.10 – EXTERIOR ELEVATIONS</u>

- a) Refence *revised* drawing Sheet 5.10, dated 1-18-24, attached to the end of this addendum for the following:
 - i. The exterior lettering shown above the new east entrance has been changed to read "ACTIVITIES ENTRANCE" in lieu of ACTIVITIES ENTRY.
 - 1. This exterior lettering shall be furnished and installed by the Contractor under his Base Bid.
 - 2. Reference Section 101419 "*Dimensional Letter Signage*", dated 1-16-24, attached to the end of this addendum for product specification; 5 pages total.
 - ii. Corrections have been made with regard to the precast wall panel finish; reference exterior elevations A, B & C/5.10.

28) <u>SHEET 5.11 – EXTERIOR ELEVATIONS-AREA F-ADD ALTERNATE</u>

- a) Refence *revised* drawing Sheet 5.11, dated 1-18-24, attached to the end of this addendum for the following:
 - i. The exterior lettering shown above the new east entrance shall be changed to read "ACTIVITIES ENTRANCE" in lieu of ACTIVITIES ENTRY.
 - 1. This exterior lettering shall be furnished and installed by the Contractor under his Base Bid.
 - 2. Reference Section 101419 "*Dimensional Letter Signage*", dated 1-16-24, attached to the end of this addendum for product specification; 5 pages total.
 - ii. Corrections have been made with regard to the precast wall panel finish; reference exterior elevations A, B & C/5.11.

29) <u>SHEET 5.13 – EXTERIOR ELEVATIONS</u>

- a) Refence *revised* drawing Sheet 5.13, dated 1-18-24, attached to the end of this addendum for the following:
 - i. Corrections have been made with regard to the precast wall panel finish; reference exterior elevation C/5.13.

30) <u>SHEET 5.14 – WINDOW/ STOREFRONT ELEVATIONS & DETAILS</u>

- a) Refence *revised* drawing Sheet 5.14, dated 1-18-24, attached to the end of this addendum for the following:
 - i. Dimensional adjustments have been made to the Base Bid aluminum storefront clerestory windows; reference aluminum storefront elevation 10/5.14.
 - ii. Dimensional adjustments have been made to the Add Alternate #1 aluminum storefront clerestory windows; reference aluminum storefront elevation 10/5.14.

31) <u>SHEET 5.21 – BUILDING SECTIONS</u>

- a) Refence *revised* drawing Sheet 5.21, dated 1-18-24, attached to the end of this addendum for the following:
 - i. Additional wall detail callouts have been added to building sections A, E & F.
 - ii. Top of wall elevations have been added to building section E.
 - iii. Joist bearing elevations have been added to building sections B, C, E & F

32) <u>SHEET 5.22 – BUILDING SECTIONS</u>

a) Additional detail callouts have been added to building sections B, C & E to identify the required detail where new roofs intersect existing building walls clad with (existing) metal wall panels.

33) <u>SHEET 5.41 – SECTION DETAILS</u>

- a) Revise detail 7/5.41 as indicated per *revised* drawing Sheet 5.41, dated 1-18-24, attached to the end of this addendum.
- b) Reference architectural supplemental drawing SD-1, dated 1-18-24 attached to the end of this addendum for existing metal wall panel tie-in detail.

34) <u>SHEET 5.42 – SECTION DETAILS</u>

- a) Reference *revised* drawing Sheet 5.42, dated 1-18-24, attached to the end of this addendum for following:
 - i. Detail 5/5.42 has been modified to match structural detail 7/3.60. The dimension from Grid EF to the roof edge has been changed to 2'-11".
 - ii. Detail 7/5.42 has been modified to match structural detail 2/3.60. The dimension from Grid E to the roof edge has been changed to 2'-3".
 - iii. **NEW** architectural detail 10/5.42 has been added to this Sheet; this detail is referenced per building section A/5.21.

35) <u>SHEET 5.44 – SECTION DETAILS</u>

- a) Reference *revised* drawing Sheet 5.42, dated 1-18-24, attached to the end of this addendum for following:
 - i. Detail 8/5.44: Change thickness of rigid insulation on the exterior side of the steel stud framing from 1 $\frac{1}{2}$ " thick to 3" thickness to match the 3" insulation below in detail 15/5.44.
 - ii. Details 10 & 11/5.44 have been modified to reference supplemental drawing SD-1.
 - (1) Reference architectural supplemental drawing SD-1, dated 1-18-24 attached to the end of this addendum for large scale detail at existing metal wall panel tie-in locations.
 - (2) CLARIFICATION: As indicated per supplemental drawing SD-1, the Contractor's Base Bid shall include removing the existing metal wall panels, modifying the length of the existing metal wall panels, and subsequently reinstalling the existing metal wall panels.

36) <u>SHEET 5.45 – SECTION DETAILS</u>

a) Reference *revised* drawing Sheet 5.45, dated 1-18-24, attached to the end of this addendum for new head detail 6/5.45 and new sill detail 7/5.45 at door F200-2. These details are called out in building section E/5.21.

37) <u>SHEET 5.50 – ROOF PLAN</u>

- a) CLARIFICATION: The roof joist bearing elevation at the canopy above the new east entrance shall be 11'-8".
 - i. Disregard the 11'-4" joist bearing elevation originally shown.

38) <u>SHEET 6.10-D – REFLECTED CEILING PLAN - AREA B, C & D</u>

- a) Reference *revised* drawing Sheet 6.10-D, dated 1-18-24, attached to the end of this addendum for the location of existing acoustical ceilings that must be removed and reinstalled to allow for the installation of new mechanical piping, fire sprinkler piping & electrical work.
- b) Per the Base Bid the Contractor shall include removing and reinstalling existing acoustical ceiling tiles and ceiling grid at select locations located north of the existing CAFETERIA to allow for the installation of new mechanical piping, fire sprinkler piping & electrical work. NOTE: These areas do not show up on Sheet 6.10-D.
 - i. Reference the areas shaded in gray on supplemental architectural drawing SD-2, dated 1-18-24, attached to the end of this addendum.

39) <u>SHEET 6.20 – CEILING DETAILS</u>

- a) Detail 8/6.20 has been revised to correctly show that the existing door leafs (only) shall be removed; the existing door frame shall remain.
 - i. Reference *revised* drawing Sheet 6.20, dated 1-18-24, attached to the end of this addendum for additional information.

40) <u>SHEET 10.20 – THEATRE DETAILS</u>

a) Add the following keynote to the empty leader on the left side of detail 3/10.20:

1/2" PLYWOOD OVER METAL DECKING

MECHANICAL ITEMS:

1) <u>SHEET 8.11 – DETAILS</u>

a) Add INFLOOR HEAT PIPING DETAIL as indicated per *revised* mechanical drawing Sheet 8.11, dated 1-18-24, attached to the end of this addendum.

2) <u>SHEET 8.30-E – UNDERFLOOR PLAN – AREA E – PLUMBING</u>

a) Add infloor heat zone & accessories as indicated per *revised* mechanical drawing Sheet 8.30-E, dated 1-18-24, attached to the end of this addendum.

3) <u>SHEET 8.30-F – UNDERFLOOR PLAN – AREA F – PLUMBING</u>

a) Add infloor heat zone & accessories as indicated per *revised* mechanical drawing Sheet 8.30-F, dated 1-18-24, attached to the end of this addendum.

4) <u>SHEET 8.30-F-A – UNDERFLOOR PLAN – AREA F – PLUMBING ADD ALTERNATE</u>

a) Add infloor heat zone & accessories as indicated per *revised* mechanical drawing Sheet 8.30-F-A, dated 1-18-24, attached to the end of this addendum.

5) <u>SHEET 8.31 - E - FIRST FLOOR PLAN - AREA E - PLUMBING & HJEATING</u>

a) Add infloor heat zone & accessories as indicated per *revised* mechanical drawing Sheet 8.31-E, dated 1-18-24, attached to the end of this addendum.

6) <u>SHEET 8.31 -F – FIRST FLOOR PLAN – AREA F – PLUMBING & HJEATING</u>

a) Add infloor heat zone & accessories as indicated per *revised* mechanical drawing Sheet 8.31-F, dated 1-18-24, attached to the end of this addendum.

7) <u>SHEET 8.31-F-A - 1st FLOOR PLAN - AREA F - PLUMBING & HEATING - ADD ALTERNATE</u>

a) Add infloor heat zone & accessories as indicated per *revised* mechanical drawing Sheet 8.31-F-A, dated 1-18-24, attached to the end of this addendum.

8) <u>SHEET 8.23-D – DEMOLITION PLAN – FIRST FLOOR – AREA B,C & D – VENILATION & A/C</u>

a) Change Note 3 to read "ABANDON EXISTING IN-LINE EXHAUST FAN IN PLACE. CAP DUCT ON INLET SIDE OF FAN." Disregard reference to discharge side of fan.

9) <u>SHEET 8.40-E – FIRST FLOOR PLAN – AREA E – VENTILATION & A/C</u>

a) Add in-floor heat control to thermostat for E103 Fitness Room.

10) <u>SHEET 8.40-F – FIRST FLOOR PLAN – AREA F – VENTILATION & A/C – BASE BID</u>

a) The thermostat for Vestibule F100 shall serve CUH-F100A, CUH-F100B and the in-floor heat.

11) <u>SHEET 8.40-F-A – FIRST FLOOR PLAN – AREA F – VENTILATION & A/C – ADD ALTERNATE</u>

a) The thermostat for Vestibule F100 shall serve CUH-F100A, CUH-F100B and the in-floor heat.

12) <u>SHEET 8.40-G – FIRST FLOOR PLAN – AREA G – VENILATION & A/C</u>

a) Extend O/A ducts for BCU-G111 and BCU-G117 to IH-G119. Reference *revised* mechanical drawing Sheet 8.40-G, dated 1-18-24, attached to the end of this addendum.

13) <u>SHEET 8.50 – SCHEDULES</u>

- a) Reference *revised* mechanical drawing Sheet 8.50, dated 1-18-24, attached to the end of this addendum for the following:
 - i. ENERGY RECOVERY VENILATOR SCHEDULE:
 - 1. Change Supply Air fan MCA to 23.8.
 - 2. Change MOCP to 30.9.
 - 3. Change Exhaust Air fan MCA to 16.8.
 - 4. Change MOCP to 21.8.
- b) In reference to the FAN SCHEDULE, update fan EF-G207. Reference *revised* mechanical drawing Sheet 8.50, dated 1-18-24, attached to the end of this addendum
- c) In reference to the PUMP SCHEDULE : Add infloor heat pump P-4. See revised drawing sheet dated 1/18/2024.

ELECTRICAL ITEMS:

1) SHEET 9.10 and 9.11 ELECTRICAL SITE DEMOLITION AND SITE PLAN

- a) Remove and relocate 2 additional site parking lot poles as shown on attached sheet 9.10. Relocate to location as shown on attached sheet 9.11.
- b) One existing parking lot pole shown on sheet 9.10 noted to be removed shall be salvaged to the owner.

2) <u>SHEET 9.40-E – FIRST FLOOR PLAN – AREA D – LIGHTING</u>

a) Reference *revised* electrical drawing Sheet 9.40-E, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

3) <u>SHEET 9.42-E – FIRST FLOOR PLAN – AREA E – LIGHTING</u>

a) Reference *revised* electrical drawing Sheet 9.42-E, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

4) <u>SHEET 9.44-F– FIRST FLOOR PLAN – AREA F – LIGHTING</u>

a) Reference *revised* electrical drawing Sheet 9.44-F, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

5) <u>SHEET 9.44-F-A – FIRST FLOOR PLAN – AREA F – LIGHTING – ADD ALTERNATE</u>

a) Reference *revised* electrical drawing Sheet 9.44-F-A, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

6) <u>SHEET 9.45-F – FIRST FLOOR PLAN – AREA F – POWER & SIGNAL</u>

a) Reference *revised* electrical drawing Sheet 9.45-F, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

7) <u>SHEET 9.45-F-A – FIRST FLOOR PLAN – AREA F – POWER & SIGNAL – ADD</u> <u>ALTERNATE</u>

a) Reference *revised* electrical drawing Sheet 9.45-F-A, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

8) <u>SHEET 9.46-G – FIRST FLOOR PLAN – AREA G – LIGHTING</u>

a) Reference *revised* electrical drawing Sheet 9.46-G, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

9) <u>SHEET 9.47-G – FIRST FLOOR PLAN – AREA F – POWER & SIGNAL</u>

a) Reference *revised* electrical drawing Sheet 9.47-G, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

10) <u>SHEET 9.48-F – MEZZANINE PLAN – AREA F – LIGHTING</u>

a) Reference *revised* electrical drawing Sheet 9.48-F, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

11) <u>SHEET 9.48-F-A – MEZZANINE PLAN – AREA F – LIGHTING ADD ALTERNATE</u>

a) Reference *revised* electrical drawing Sheet 9.48-F-A, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

12) <u>SHEET 9.49-F – MEZZANINE PLAN – AREA F – POWER & SIGNAL</u>

a) Reference *revised* electrical drawing Sheet 9.49-F, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

13) <u>SHEET 9.49-F-A – MEZZANINE PLAN – AREA F – POWER & SIGNAL – ADD</u> <u>ALTERNATE</u>

a) Reference *revised* electrical drawing Sheet 9.49-F-A, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

14) <u>SHEET 9.50-G – MEZZANINE PLAN – AREA G – ELECTRICAL</u>

a) Reference *revised* electrical drawing Sheet 9.50-G, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

15) <u>SHEET 9.51-G – CATWALK PLAN – AREA G - ELECTRICAL</u>

a) Reference *revised* electrical drawing Sheet 9.51-G, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

16) <u>SHEET 9.60 – ELECTRICAL SYMBOLS & ABBREVIATIONS</u>

a) Reference *revised* electrical drawing Sheet 9.60, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

17) <u>SHEET 9.61 – ELECTRICAL SCHEDULES</u>

a) Reference *revised* electrical drawing Sheet 9.61, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

18) <u>SHEET 9.62 – ELECTRICAL SCHEDULES</u>

a) Reference *revised* electrical drawing Sheet 9.62, dated 1-18-24, attached to the end of this addendum for miscellaneous electrical modifications.

GENERAL APPROVALS:

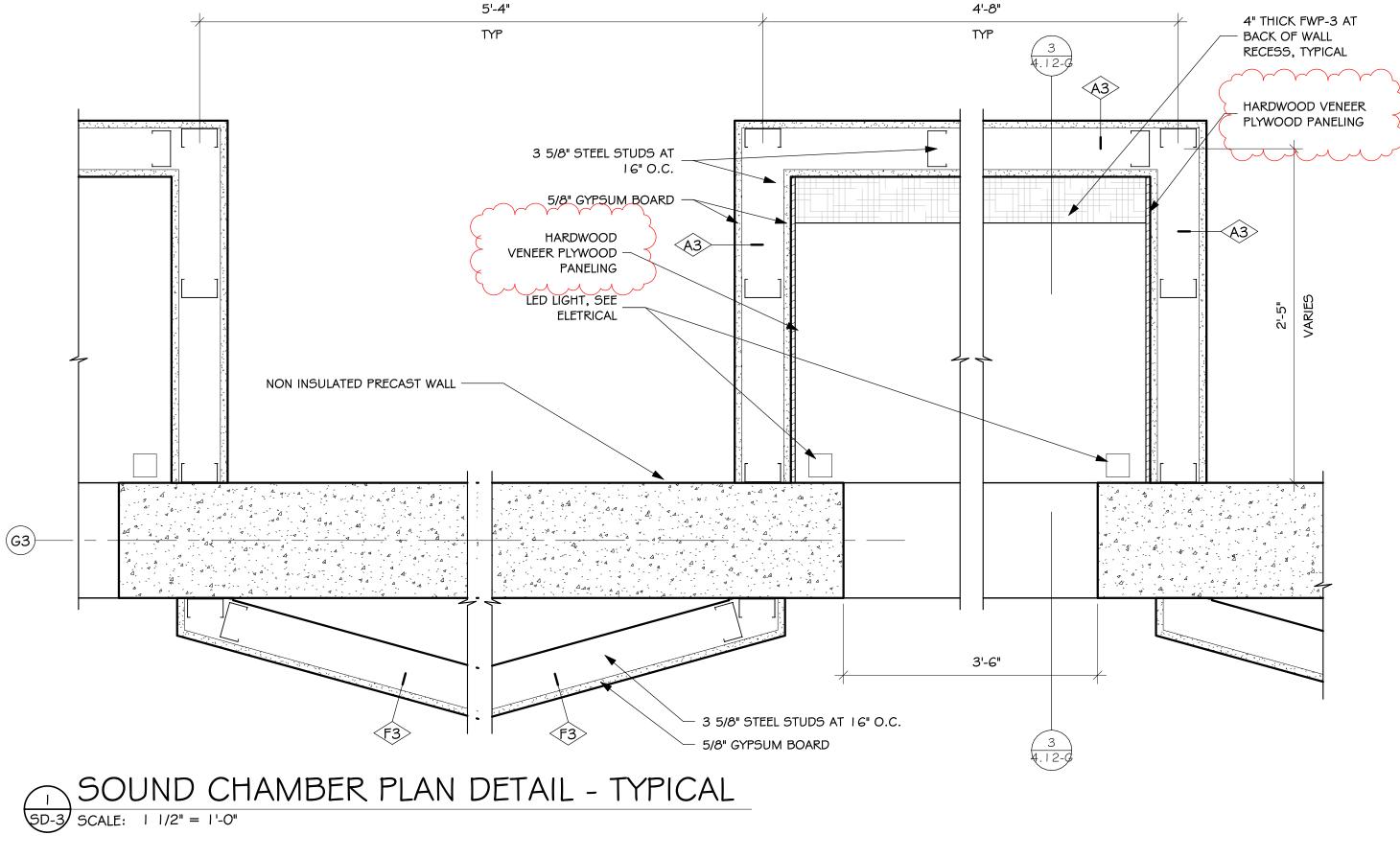
The following material or equipment furnished by the manufacturers listed, may be substituted as equivalent providing that each item, material, and piece of equipment conforms to the design and requirement of the specifications.

SECTION	ITEM	MANUFACTURER
116133	Stage Curtains and Tracks	Gopher Stage Lighting TMS, Theatrical Media Services
323113	Tennis Posts Tennis Net Straps & Anchors	Douglas Sports; <i>Premier XS</i> Douglas Sports; <i>TN-36 Net</i> Douglas Sports
220400	Water Heaters	AO Smith, State Industries
220400	Flush Valves	American Standard
220400	Circulating Pumps	Grundfos
220400	Submersible Pumps	Zoeller
220600	Gas Vent Systems	Z-Vent

220600	Automatic Flow Control Valves	Hydronic Components
220600	Ice Storage	PhaseStor/IceStor
220600	Radiant Panels	Sterling, AeroTech
230800	Exhaust/Relief Air Hood	ACME
230800	Duct Free Split System	Samsung
230800	Energy Recovery Ventilator	Haakon, Scott Springfield
265110/265210	Interior and Exterior Lighting	
	Type A Series	Elite, Lithonia
	Type C Series	Lithonia
	Type D Series	Metalux, Columbia
	Type E, EB, E1, E2, E2B, E3, E4, E5	Emergi-Lite, Lithonia
	Type E6	Lithonia
	Type G	Spectrum
	Type H Series	Elite, Portfolio, Prescolite
	Type L	Gardco, Beacon
	Type M Series	Lithonia
	Type N	NVF, Kelvix, Accliam, Acolyte, LLI
	Type P Series	Portfolio, HE Williams Arch Light Works
	Type R	Aluz, Cole
	Type S, SE	Halo, Prescolite, Elite
	Type T, TW, T1, T1W, T2	Lithonia, Portfolio, HE Williams, Arch Light Works
	Type TA, TB1	Lithonia, Lumux
	Type V, VE	Lithonia
	Type Y Series	Gardco,Spitzer, McGraw-Edison
	TYPE Z Series	AEL, Fail-Safe, PACO
		, , ,

NOTE: The TS lights that were listed as an equal previously are not equal to the specified lights; NOT APPROVED.

END OF ADDENDUM No. 2



	project_LENNOX HIGH SCHOOL ADDITION		DRA
	number 0215.2982.22	drawn BJO checked SRJ	
	date 1/19/2024	revision ADDENDUM #2	Sr
	Architecture Incorporated		
	sioux falls and rap	nd city, south dakota	



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. Furnishing and installing cast aluminum 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 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For signs to include in maintenance manuals.
- B. Warranty: for special warranty.
- 1.5 QUALITY ASSURANCE
 - A. Installer Qualifications: Manufacturer of products or an entity that employs installers and supervisors who are trained and approved by manufacturer.

1.6 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 CAST 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. A.R.K. Ramos.
 - d. ASI Sign Systems, Inc.
 - e. Gemini Incorporated.
 - f. Metal Arts; Division of L & H Mfg. Co.
 - g. Metallic Arts.
 - h. Seton Identification Products.
 - 2. Character Material: Cast [aluminum].
 - 3. Character Height: [16 inches].
 - 4. Thickness [Manufacturer's standard for size of characters indicated]
 - 5. Finishes:
 - a. Integral Aluminum Finish: [Color anodized].
 - b. Overcoat: [Manufacturer's standard baked-on clear coating].
 - 6. Mounting: [Concealed studs].
 - 7. Font: [Arial], unless specifically indicated otherwise.
 - 8. Text: Provide [16 inch] high projected aluminum letters [w/ color anodized finish] on the face of the canopy that exists over doors F100-1 thru F100-5; reference exterior elevations A/5.10 & A/5.11.
 - a. Text: ACTIVITIES ENTRANCE
 - b. Color: [**BLACK**].

2.2 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.
- B. Paints and Coatings for Sheet Materials: Inks, dyes, and paints that are recommended by manufacturer for optimum adherence to surface and are UV and water resistant for colors and exposure indicated.

2.3 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. 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.
 - b. Concealed Projecting Studs: Threaded studs with sleeve spacer, 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. Provide concealed-fastener-type anchorage system at all exterior cast dimensional letters.
 - a. Letters which are to be mounted with projected studs will be determined by Architect during submittal review.
 - b. Projection distance from face of wall (where applicable) will be determined by Architect during submittal review.

2.4 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.

2.5 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. Color Anodic Finish: AAMA 611, [Class I, 0.018 mm] or thicker.
- D. Organic, Anodic, and Chemically Produced Finishes: Apply to formed metal after fabrication but before applying contrasting polished finishes on raised features unless otherwise indicated.

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

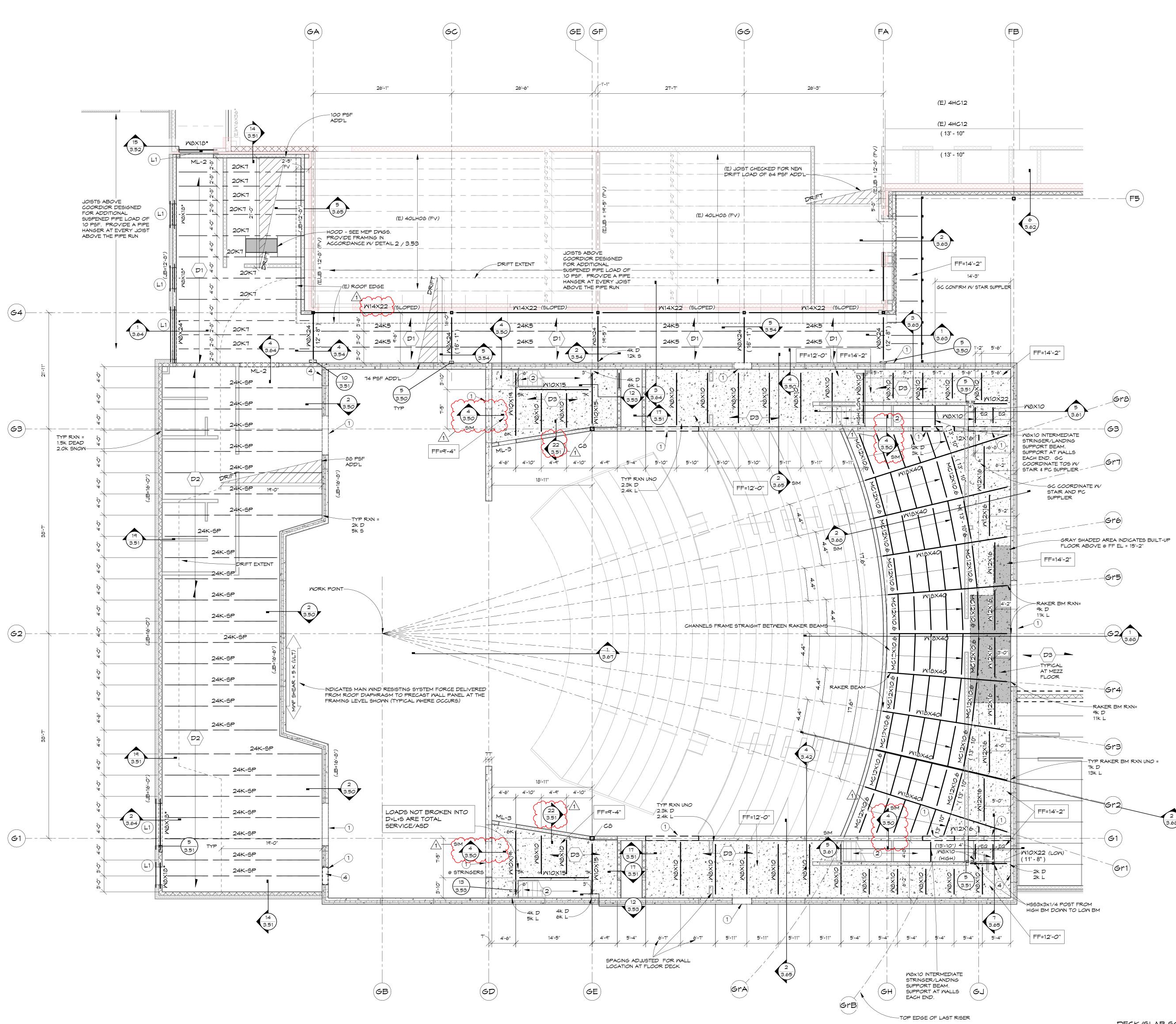
- A. General: Install signs using mounting methods indicated and according to manufacturer's written instructions.
 - 1. Install signs level, plumb, true to line, and at locations and heights indicated, with sign surfaces free of distortion and other defects in appearance.
 - 2. Before installation, 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 studs projecting through opposite side of surface, and tighten.
 - 2. Projecting 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 spacers on studs, place sign in position, and push until spacers are pinched between sign and substrate, embedding the stud ends in holes. Temporarily support sign in position until adhesive fully sets.
 - b. Thin or Hollow Surfaces: Place spacers on studs, place sign in position with spacers pinched between sign and substrate, and install washers and nuts on stud ends projecting through opposite side of surface, and tighten.

3. Back Bar and Brackets: Remove loose debris from substrate surface and install backbar or bracket supports in position so that signage is correctly located and aligned.

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



MEZZANINE FLOOR & LOW ROOF FRAMING - AREA G

З.

4.

5.

FRAMING PLAN NOTES

CONCRETE HEADER INTEGRATED INTO PRECAST WALL DESIGNED AND PROVIDED BY PRECAST SUPPLIER.

STAIR ASSEMBLY FRAMING DESIGNED AND PROVIDED BY THE STAIR SUPPLIER. SUBMIT SHOP DRAWINGS AND CALCULATIONS SEALED BY A SD PE FOR FOR REVIEW BY THE AOR & SEOR PRIOR TO FABRICATION.

GROUT ALL CELLS FULL HEIGHT. PROVIDE (1) #5 VERT. BAR CONTINUOUS FULL HEIGHT IN CORNER CELLS (4 TOTAL). PROVIDE #3 TIE BARS @ 8"00 MECHANICAL OPENING IN PC WALL/ HOLLOWCORE FLOOR

DESIGNED BY PC SUPPLIER. GC/PC SUPPLIER COORDINATE OPENING SIZE AND LOCATION W/ MEP DWGS. "(DUCT)" INDICATES BEAM PROVIDED FOR HVAC OPENING. GC

COORDINATE EXACT SPAN LENGTH AND LOCATION WI/ HVAC AND STEEL SUPPLIER. PROVIDE OTHER BEAMS FOR OPENINGS NOT SHOWN IN ACCORDANCE WITH THE "MASONRY LINTEL SCHEDULE" ON SHEET 3.10.

FRAMING GENERAL NOTES

SHOULD BE IN ACCORDANCE WITH 1 / 3.53 PROVIDE 4x4x1/4 ANGLE FRAMING AT ALL OPENINGS 12" OR LARGER IN METAL ROOF. THE GENERAL CONTRACTOR SHALL COORDINATE ROOF PENETRATIONS AND SIZES. FRAME OPENINGS IN

ACCORDANCE WITH 2/3.53

- З. JOIST BRIDGING AND CONNECTIONS SHALL BE DESIGNED BY THE JOIST MANUFACTURER. ALL JOISTS BRIDGING SHALL BE DESIGNED FOR 20 PSF NET WIND UPLIFT UNLESS NOTED OTHERWISE ON THE PLANS. WHERE DUCTWORK MUST INTERRUPT BRIDGING REFER TO DETAIL 3 / 3.53
- ELEVATIONS AND DIMENSIONS SHOWN ON THE PLANS MUST BE COORDINATED WITH THE ARCHITECTURAL 4. DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTORS PERFORMING THE APPLICABLE WORK TO ADVISE THE AOR AND SEOR OF DIMENSION OR ELEVATION DISCREPANCIES BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION. ARCHITECTURAL DRAWINGS GENERALLY GOVERN ELEVATIONS AND DIMENSIONS OF WALLS, BEAMS, AND LINTELS. ELEVATIONS SHOWN ON THE STRUCTURAL PLANS ARE INTENDED TO BENEFIT THE CONSTRUCTION PROCESS AND SIGNIFICANT EFFORT HAS BEEN MADE TO COORDINATE ELEVATIONS AND DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS BUT PROVIDING THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR FROM CHECKING DIMENSIONS OR ELEVATIONS AGAINST ALL PLANS, SCHEDULES, AND
- DETAILS LABELED AS "TYP" SHOULD BE APPLIED AS 5. TYPICAL CONSTRUCTION DETAIL U.N.O. SEE ARCHITECTURAL PLANS FOR WALL HEIGHTS AND 6.

DETAILS.

- LOCATIONS. TYPICAL NON-LOAD BEARING PARTITION WALLS SHALL BE BRACED ACCORDING TO DETAILS 8/3.54 9/3.54 13/3.51 12/3.51 STEEL JOISTS LABELED AS "SP" ARE JOIST WITH 7. SPECIAL LOADING CRITERIA TO BE DESIGNED BY THE
- STEEL JOIST SUPPLIER. SEE PLANS AND LOADING DIAGRAMS. STEEL JOISTS WITH POINT LOADS SHALL BE 8.
- REINFORCED IN ACCORDANCE WITH DETAIL 4 / 3.53 PROVIDE 3x3x1/4 CONTINUOUS ANGLE AROUND ALL 9. DECK PERIMETERS UNLESS INDICATED OTHERWISE ON
- DETAILS. "*" NEXT TO BEAM INDICATES BEAM HAS A m 4" 10. CONTINUOUS BOTTOM PLATE. WIDTH OF BOTTOM PLATE IS NOMINAL WIDTH OF MASONRY MINUS 1". PROVIDE ADDITIONAL PLATE WIDTH AS NEEDED TO

MASONRY WALL GENERAL NOTES

- PROVIDE THE FOLLOWING MINIMUM CMU WALL REINFORCEMENT U.N.O. ON THE PLANS AND THE DETAILS.
- LOCATE VERTICAL BARS PER DETAIL 2/3.51 2. 6" OR 8" INTERIOR NON-JOIST OR DECK BEARING WALLS:
- (1)-#5 VERTICAL @ 6'-0"0c 3. 8" INTERIOR JOIST OR DECK BEARING WALLS: (1)-#4
- VERTICAL @ 4'-0"0C
- 4. 8" EXTERIOR WALLS: (1)-#5 VERTICAL @ 4'-0"00 5. 6" & 8" CMU WALL BOND BEAMS SHALL HAVE (2)-#4
- CONTINUOUS 6. PROVIDE (2)-CORNER BARS TO MATCH BOND BEAM
- REINFORCING @ ALL CORNERS
- PROVIDE CONTINUOUS BOND BEAMS AT TOP OF WALL, 7 JOIST AND DECK BEARING, AND 8'-0"OC PROVIDE BOND BEAMS BELOW WINDOWS, EXTEND 24" 8 EACH SIDE BEYOND OPENINGS
- REFER TO ARCHITECTURAL DRAWINGS FOR MASONRY CONTROL JOINT LOCATIONS. TYPICAL CONTROL JOINT 9. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DETAIL 1/3.51
- 10. CONSTRUCT INTERIOR CMU WALL INTERSECTIONS PER DETAIL 3 / 3.51 CONSTRUCT MASONRY FOR STEEL BEAM BEARING PER 11. DETAIL 5 / 3.51
- 12. PROVIDE TYPICAL STEEL BEAM LINTEL CONSTRUCTION PER DETAIL 4 / 3.51

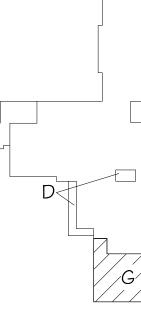
MASONRY CMU LINTEL SCHEDULE-SEE DETAIL 9 / 3.			
MARK	MIDTH	DEPTH	REINFORCING
ML-1	8"	8"	(2) #4 BOTTOM
ML-2	8"	16"	(2) #4 BOTTOM
ML-3	8"	24"	(2) #4 TOP & BOTTOM

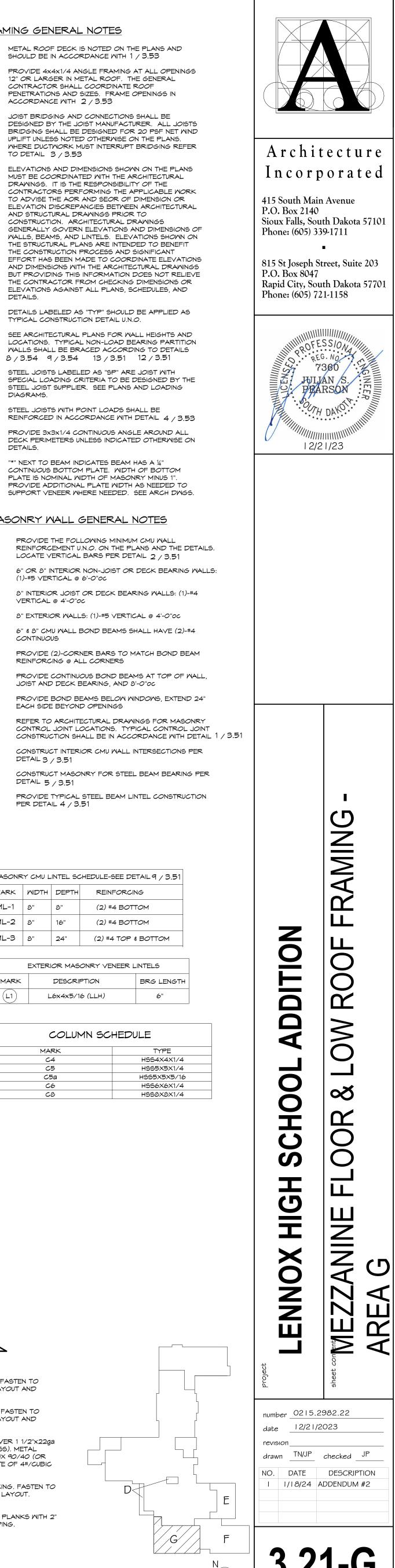
EXTERIOR MASONRY VENEER LINTELS			
MARK	DESCRIPTION	BRG LENG	
L1	L6x4x5/16 (LLH)	6"	

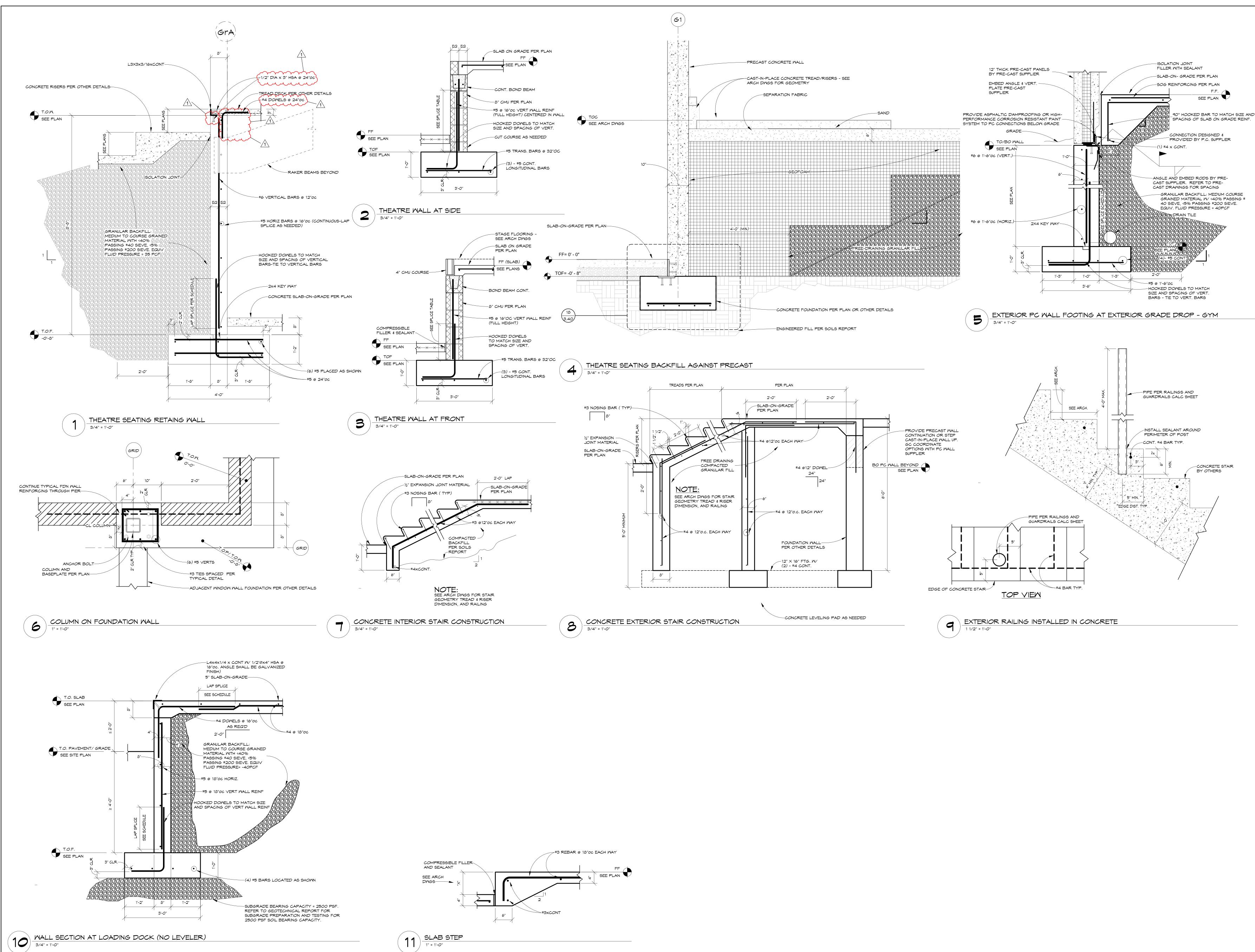
COLUMN SC	CHEDULE
MARK	TYPE
C4	HSS4X4X1
C5	HSS5X5X1
C5a	HSS5X5X5
C6	HSS6X6X1
CB	HSS8X8X1
	1

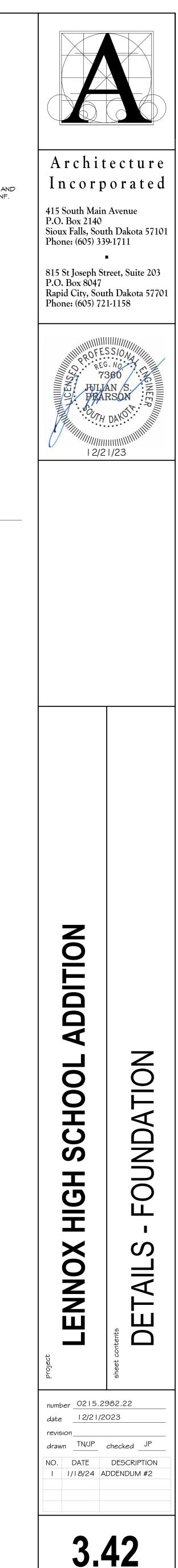


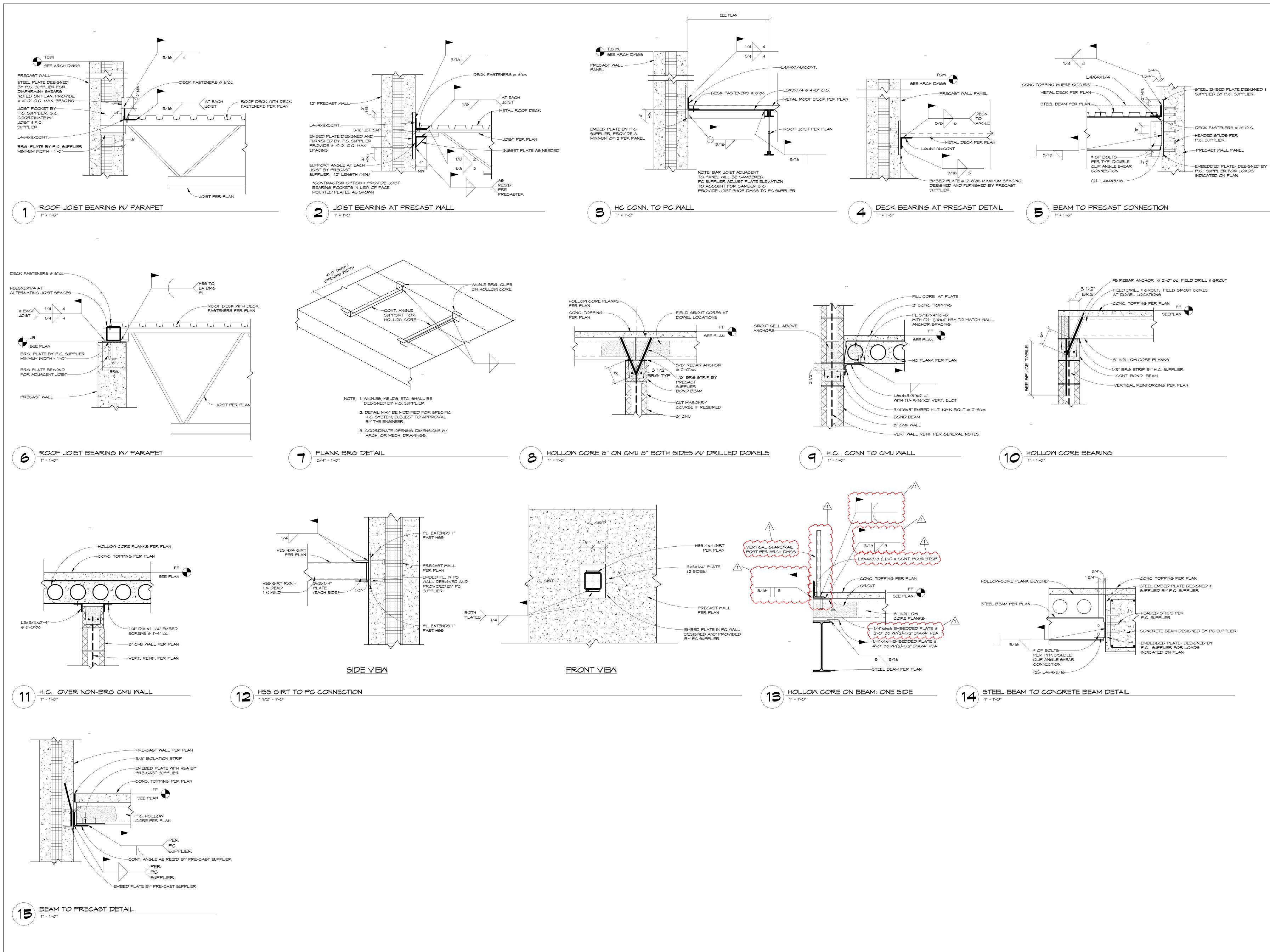
- METAL ROOF DECK: 1 1/2" x 22ga WIDE RIBBED (TYPE B). FASTEN TO SUPPORTS WITH 5/8" PUDDLE WELDS AT 36/4 FASTENER LAYOUT AND $\langle D1 \rangle$ FASTEN SIDE LAPS WITH (3) - #10 TEK SCREWS PER SPAN. METAL ROOF DECK: 1 1/2" x 20ga WIDE RIBBED (TYPE B). FASTEN TO $\langle D2
 angle$
- SUPPORTS WITH 5/8" PUDDLE WELDS AT 36/5 FASTENER LAYOUT AND FASTEN SIDE LAPS WITH (7) - #10 TEK SCREWS PER SPAN. METAL FLOOR DECK: 2 1/2" NORMAL WEIGHT CONCRETE OVER 1 1/2"x22ga GALVANIZED COMPOSITE FLOOR DECK (4" TOTAL THICKNESS). METAL
- $\langle {\tt D3}
 angle$ FLOOR DECK = VULCRAFT 1.5VLI OR EQUAL. PROVIDE STRUX 90/40 (OR APPROVED EQUAL) MACRO FIBER MESH AT A DOSAGE RATE OF 4#/CUBIC YARD. 1 1/2"x20ga WIDE RIBBED (TYPE B) W/ 1/2" PLYWOOD DECKING. FASTEN TO
- \langle D4angleSUPPORTS W/ #12 TEK SCREWS OF PAFS @ 36/4 FASTENER LAYOUT. PROVIDE (3)#10 SCREW SIDELAP FASTENERS PER SPAN.
- 8" THICK X 4'-O" WIDE PRECAST CONCRETE HOLLOW-CORE PLANKS WITH 2" COMPOSITE TOPPING. PROVIDE POLY FIBER MESH IN TOPPING. $\langle HC1 \rangle$ DESIGN LOADS: LIVE LOAD = 125PSF DEAD LOAD = SELF WEIGHT + TOPPING + 15PSF MISC

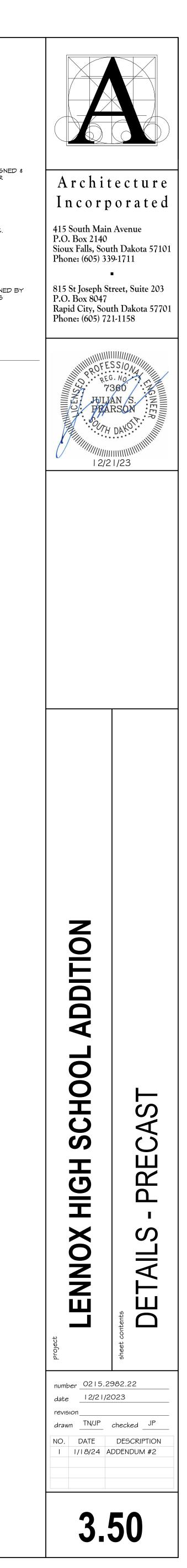


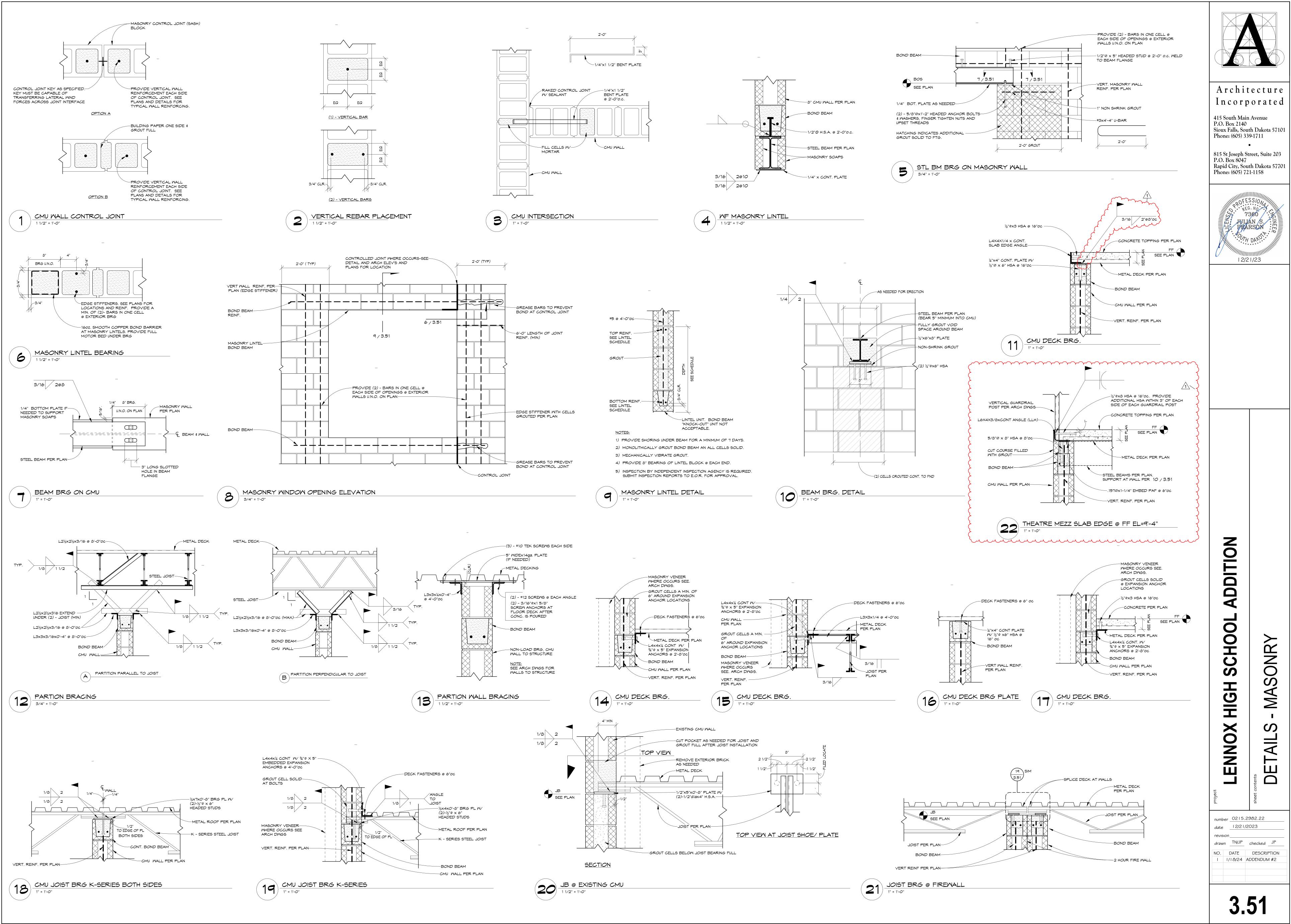


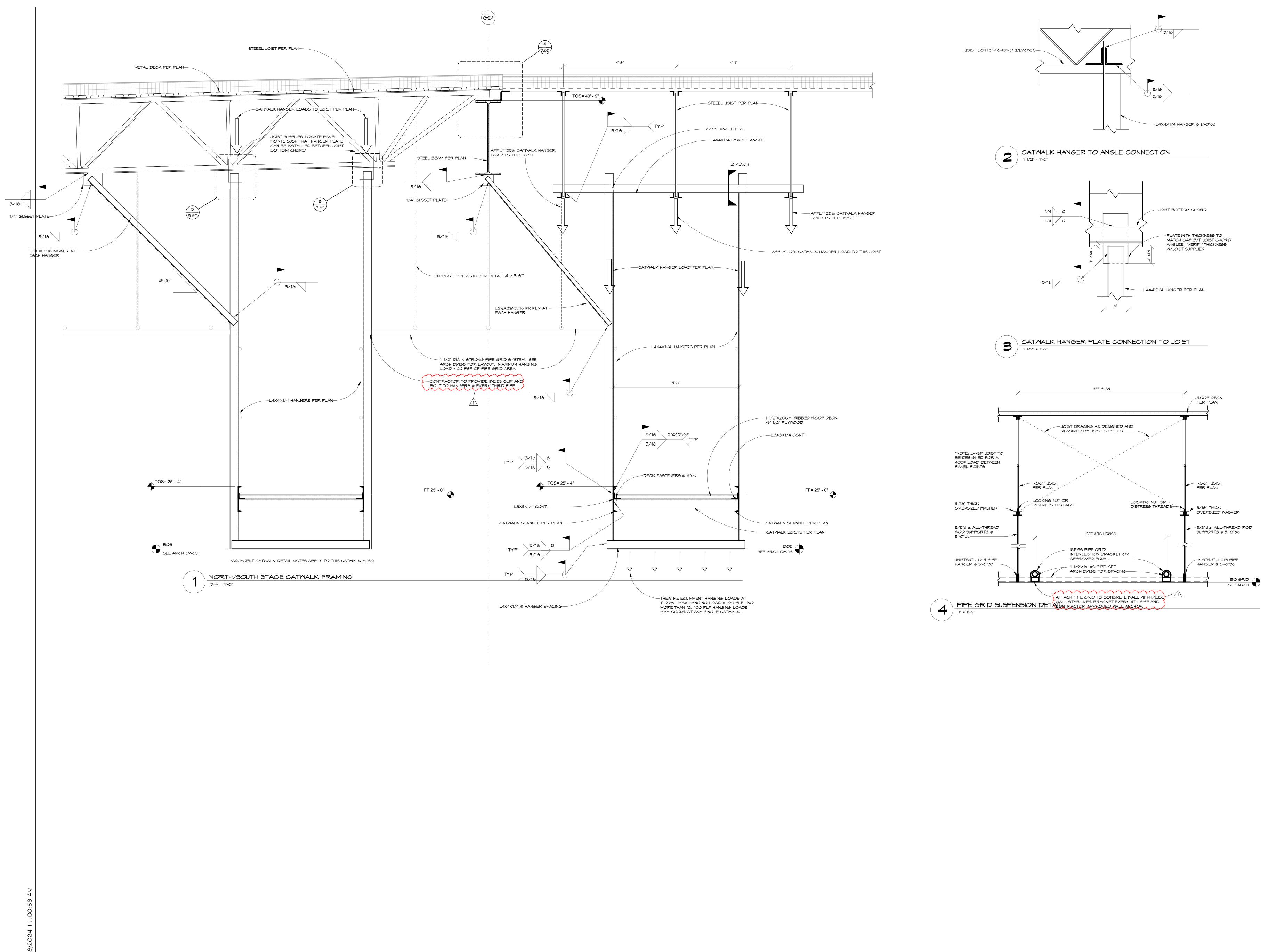


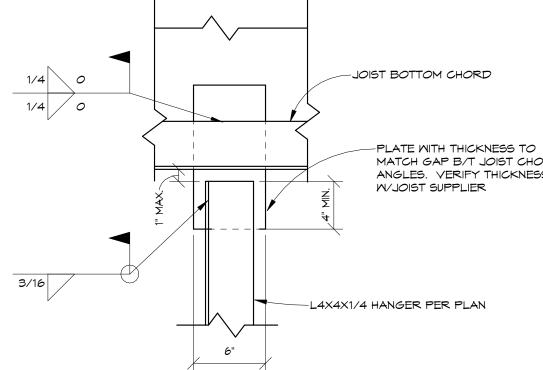




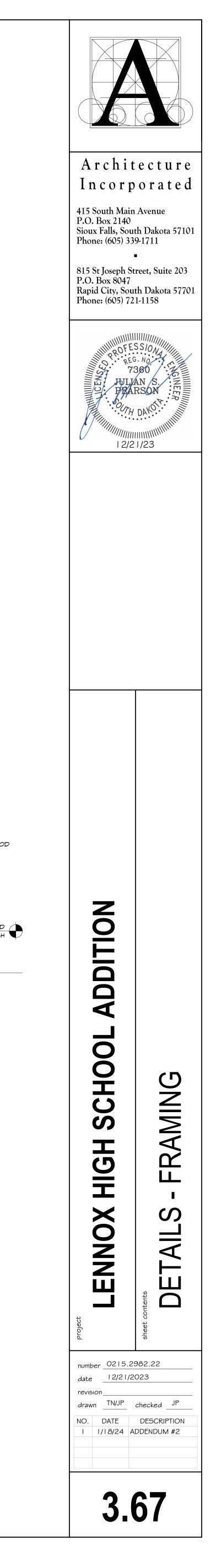


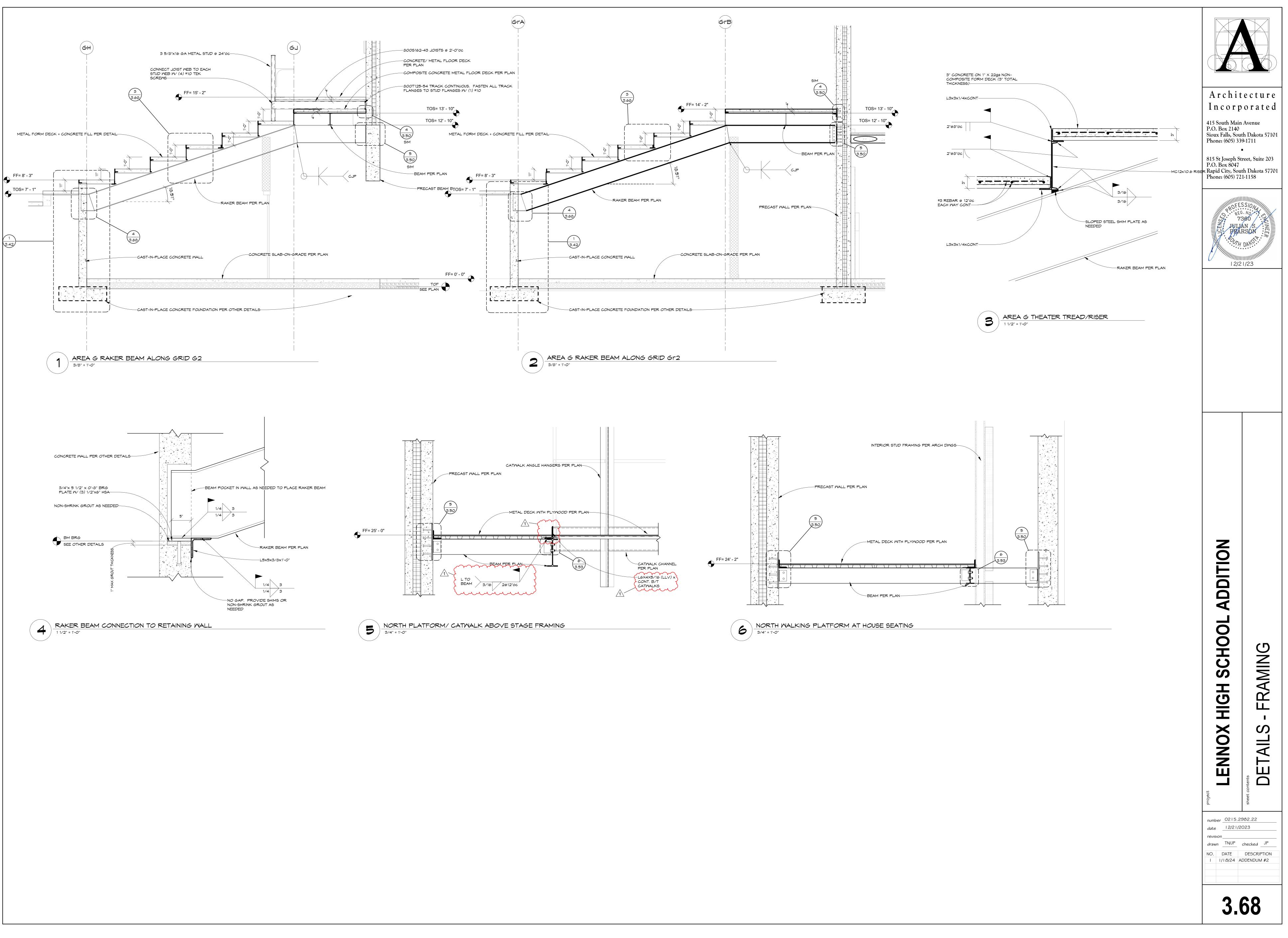


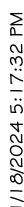


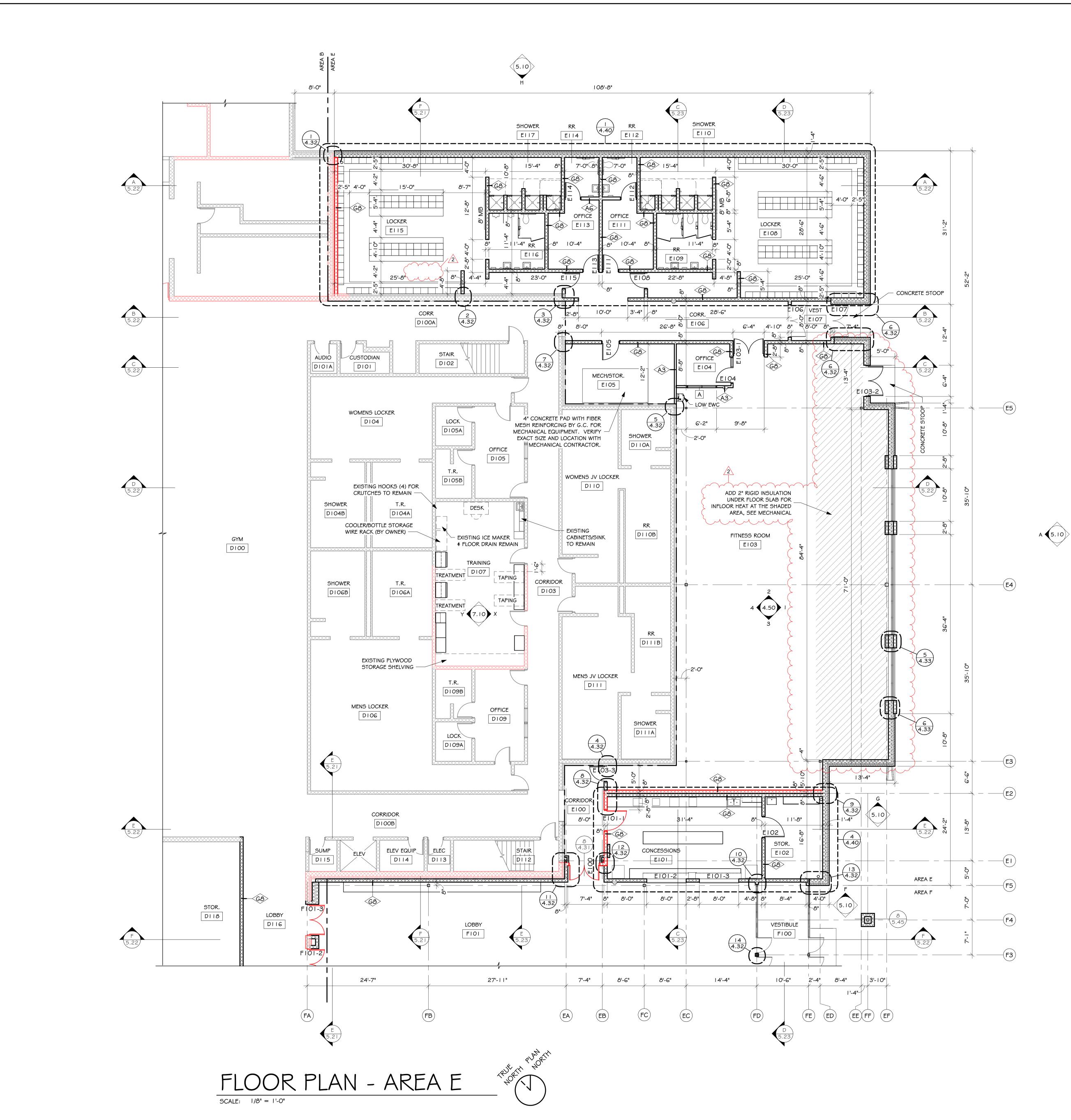










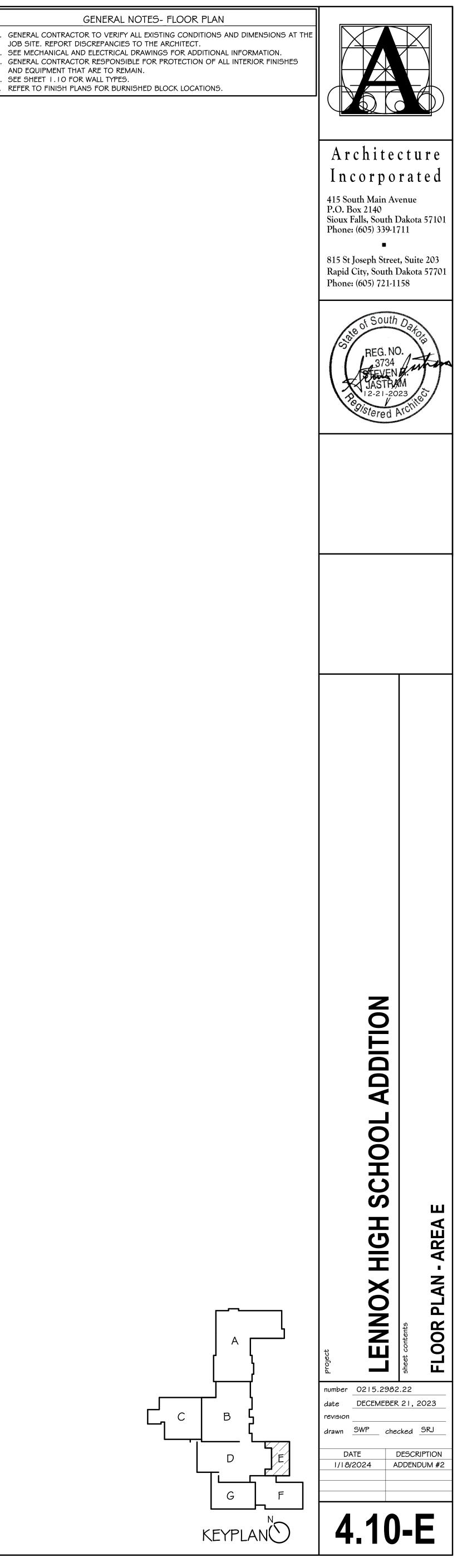


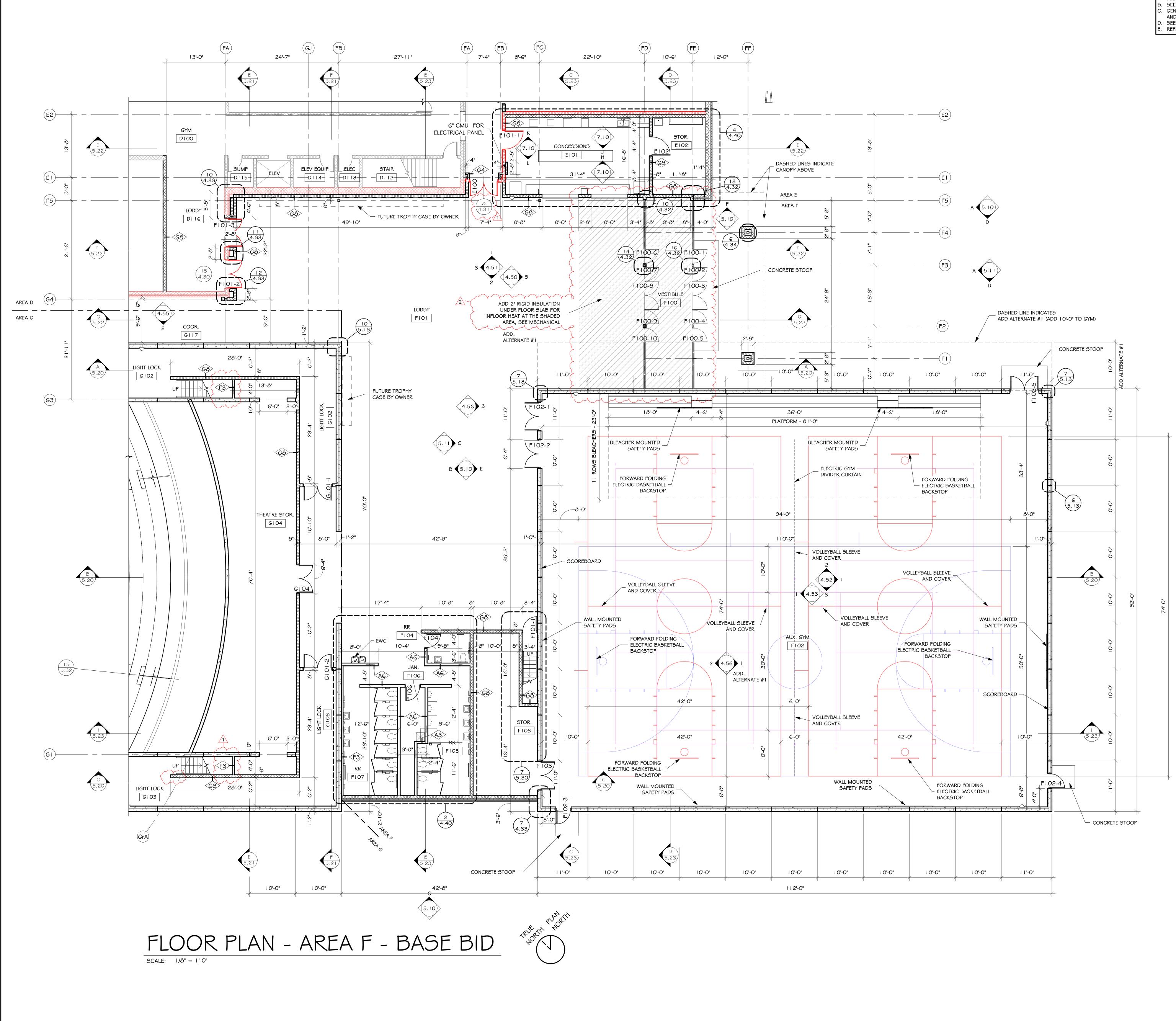
GENERAL NOTES- FLOOR PLAN

JOB SITE. REPORT DISCREPANCIES TO THE ARCHITECT.

GENERAL CONTRACTOR RESPONSIBLE FOR PROTECTION OF ALL INTERIOR FINISHES

AND EQUIPMENT THAT ARE TO REMAIN. D. SEE SHEET I.IO FOR WALL TYPES.



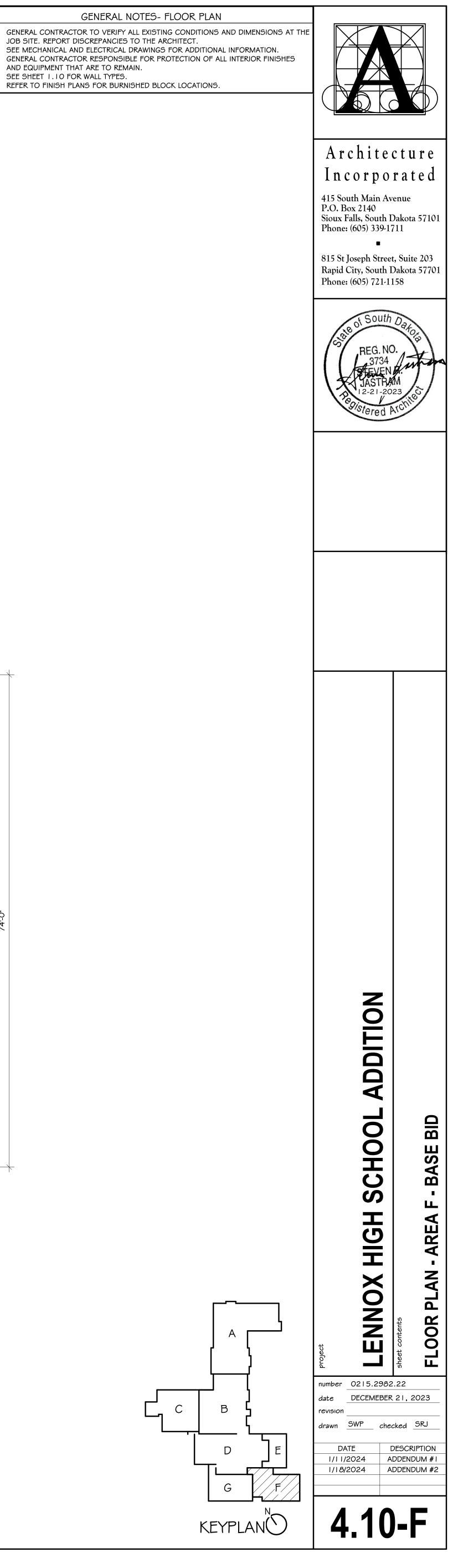


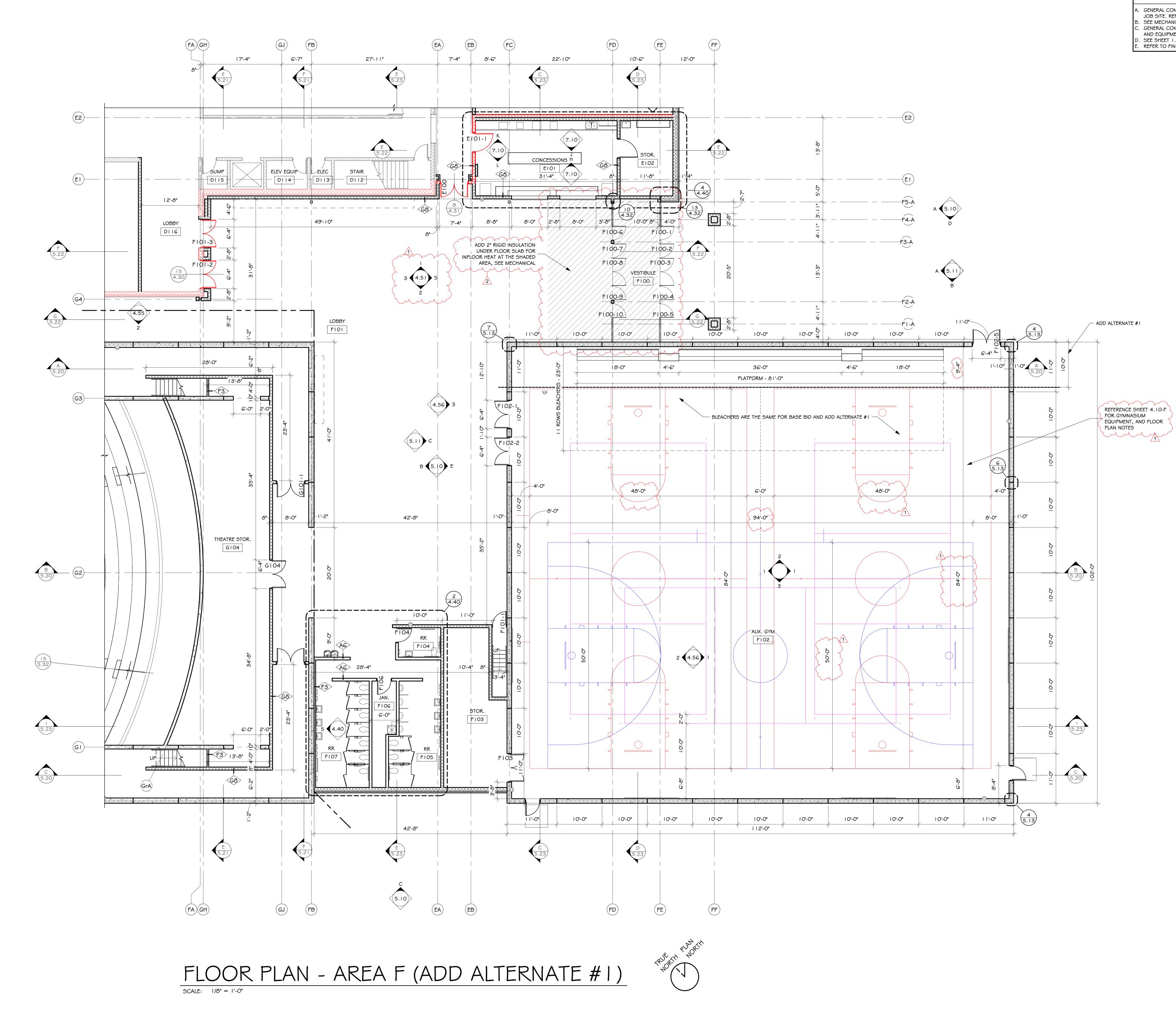
GENERAL NOTES- FLOOR PLAN

GENERAL CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT TI

JOB SITE. REPORT DISCREPANCIES TO THE ARCHITECT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

AND EQUIPMENT THAT ARE TO REMAIN. SEE SHEET 1.10 FOR WALL TYPES.





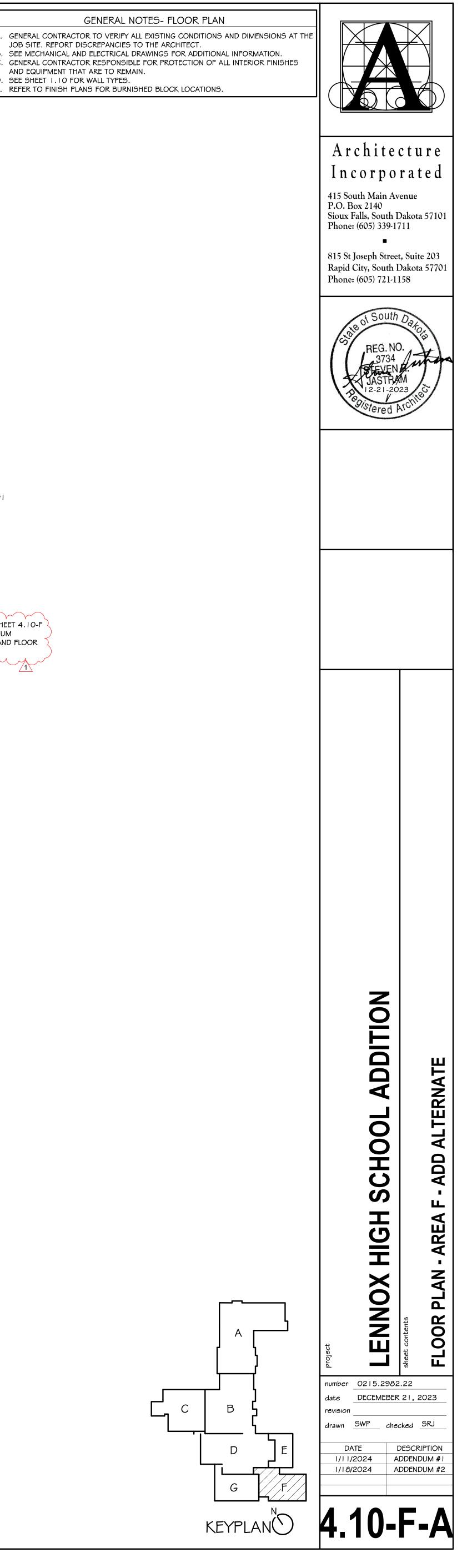


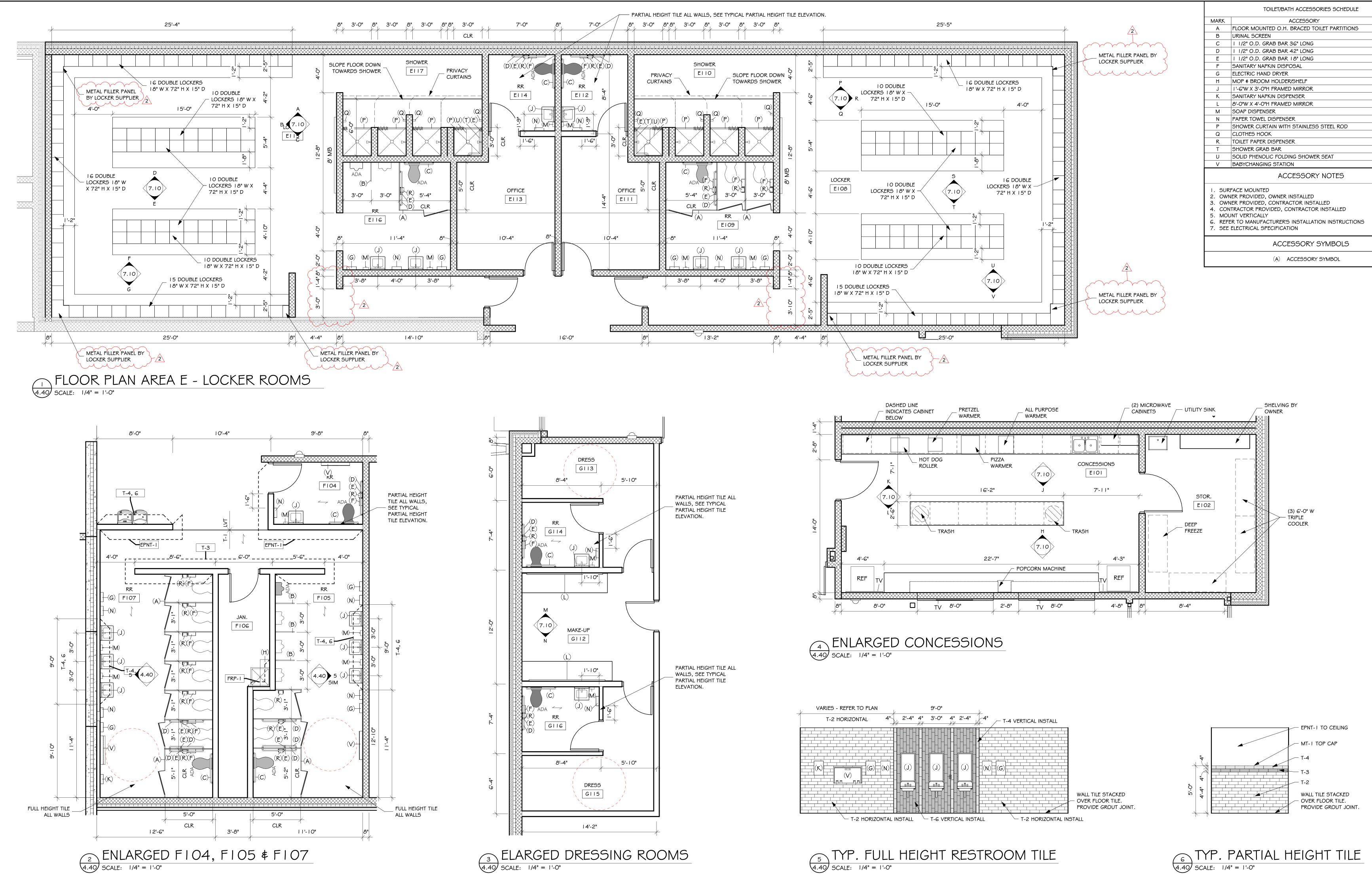
GENERAL NOTES- FLOOR PLAN

JOB SITE. REPORT DISCREPANCIES TO THE ARCHITECT.

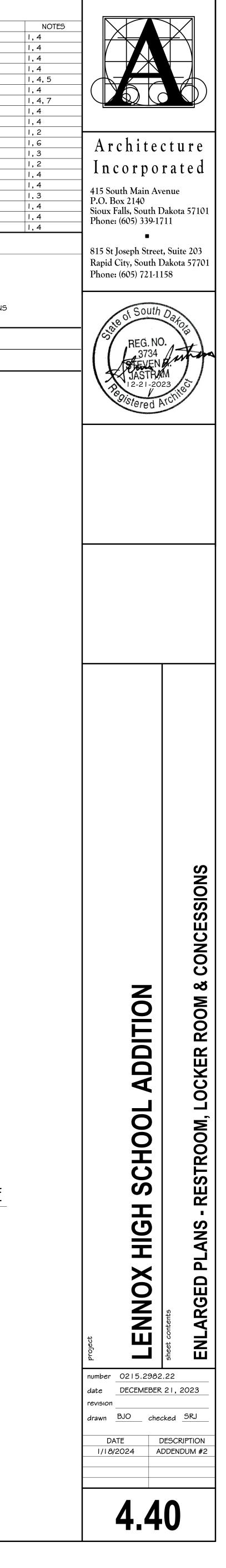
SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. GENERAL CONTRACTOR RESPONSIBLE FOR PROTECTION OF ALL INTERIOR FINISHES

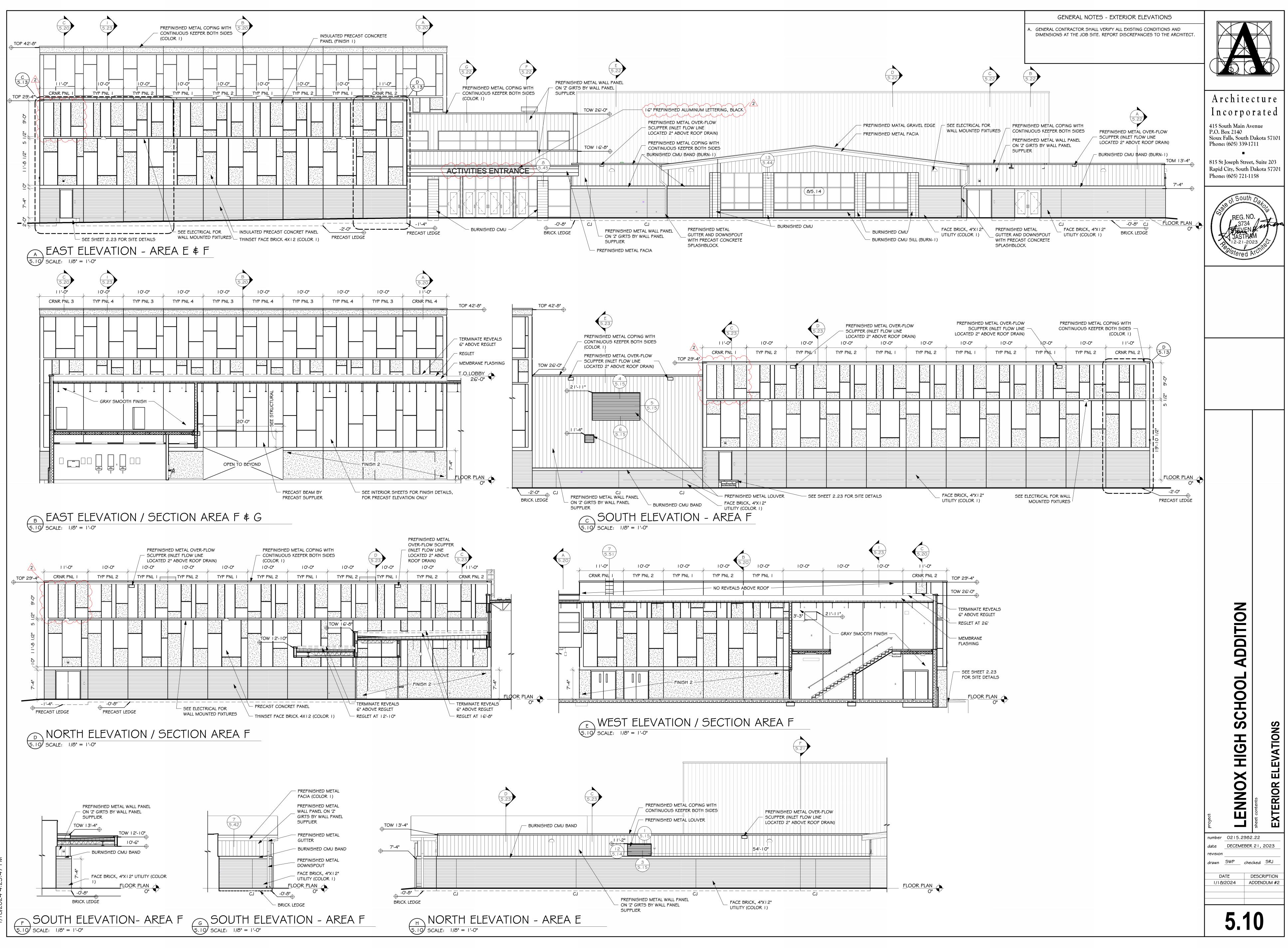
AND EQUIPMENT THAT ARE TO REMAIN. . SEE SHEET I.IO FOR WALL TYPES.



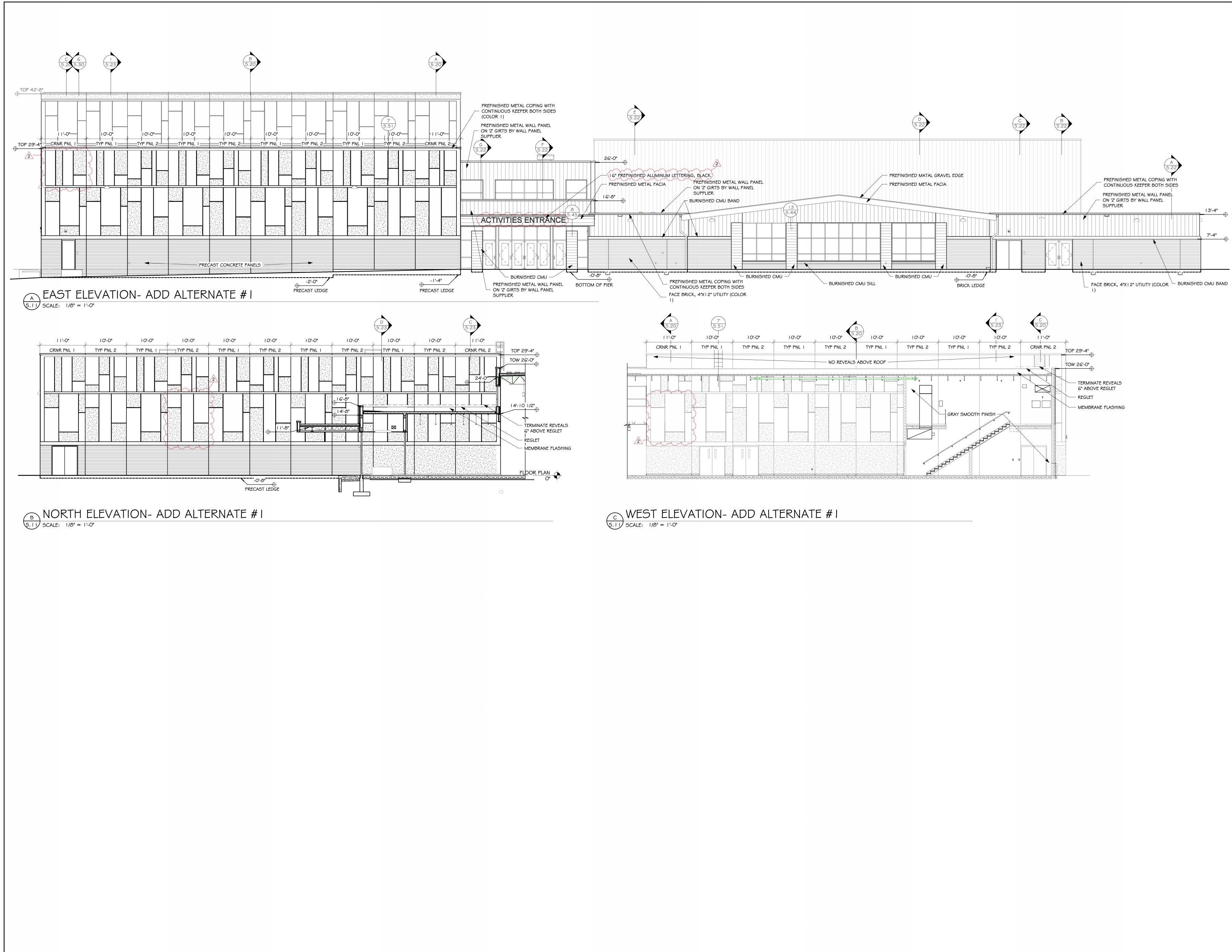


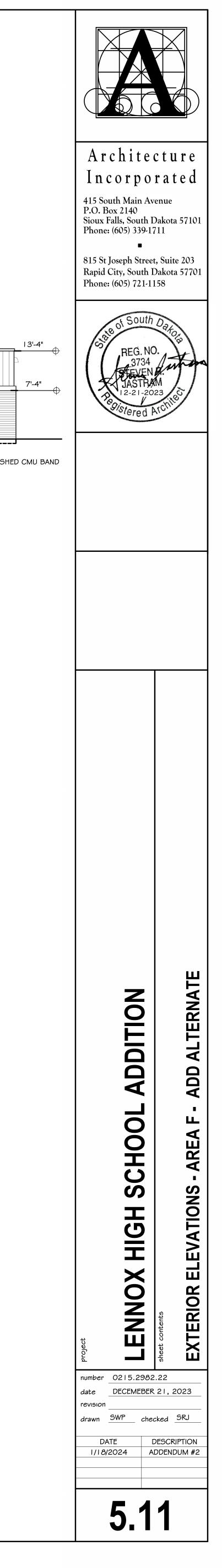
VARIES - REFER TO PLAN T-2 HORIZONTAL	

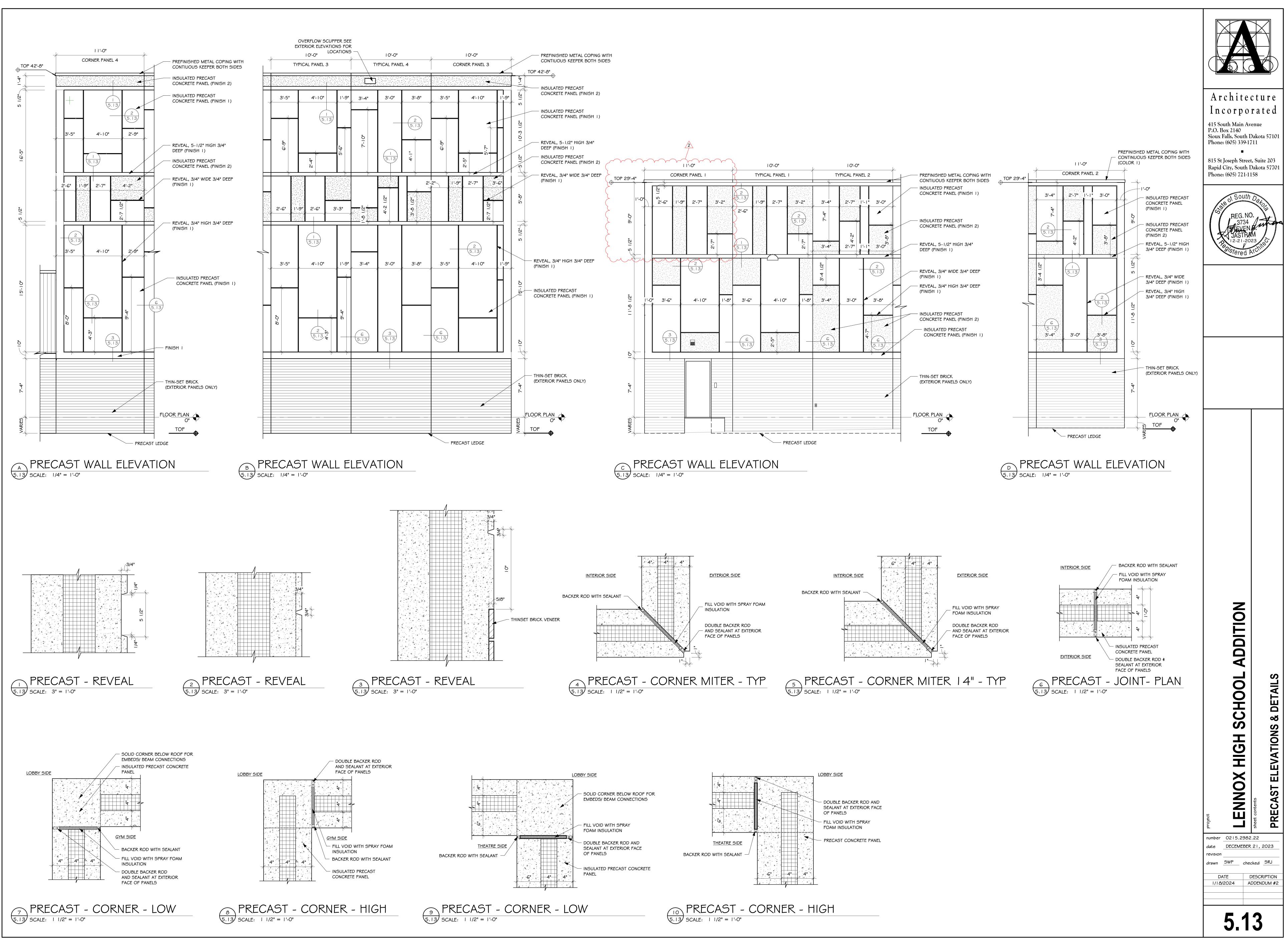


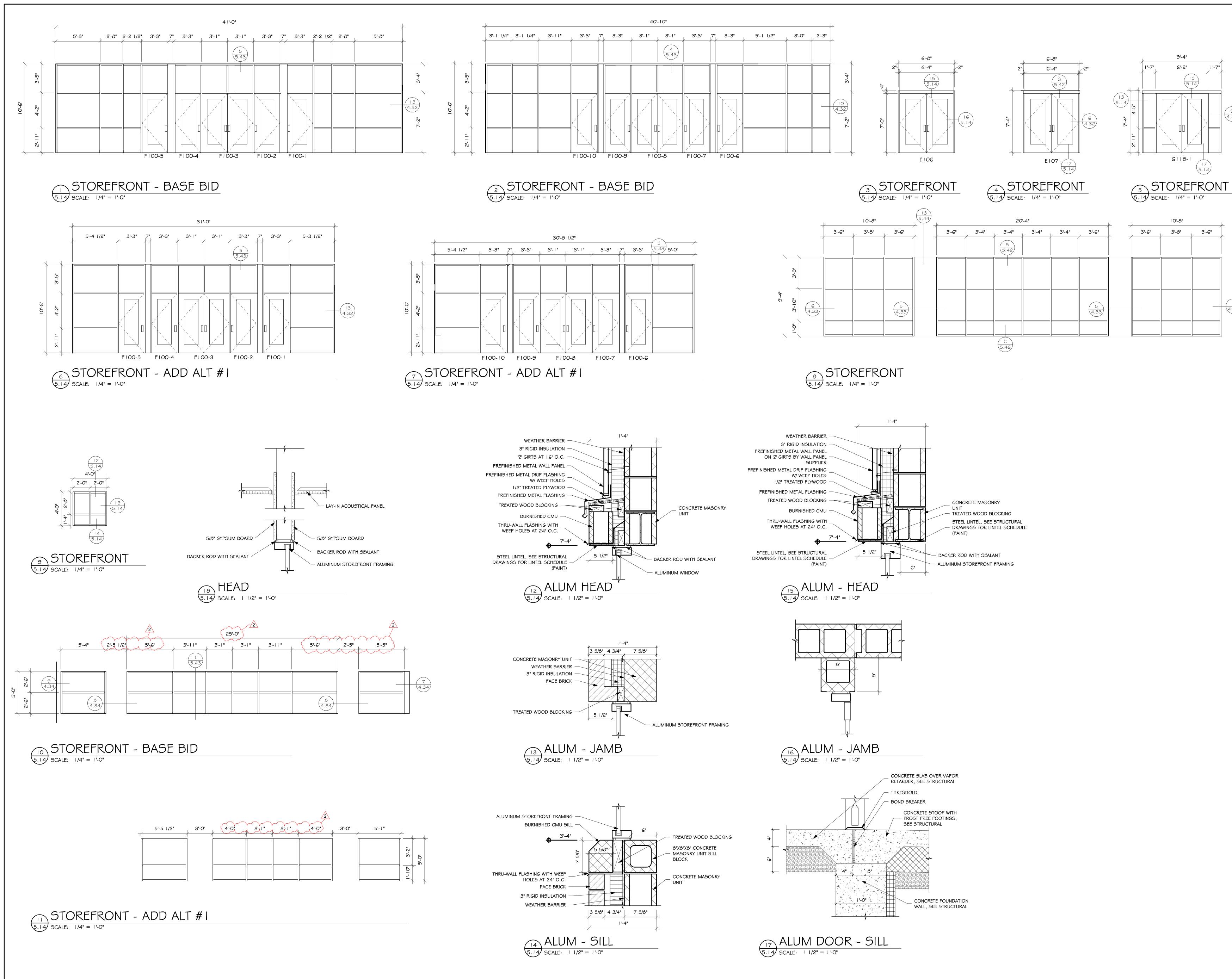


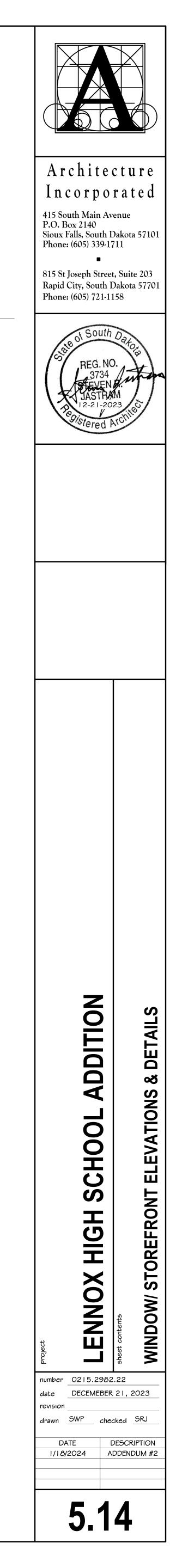
8/2024 4:23:47 PM

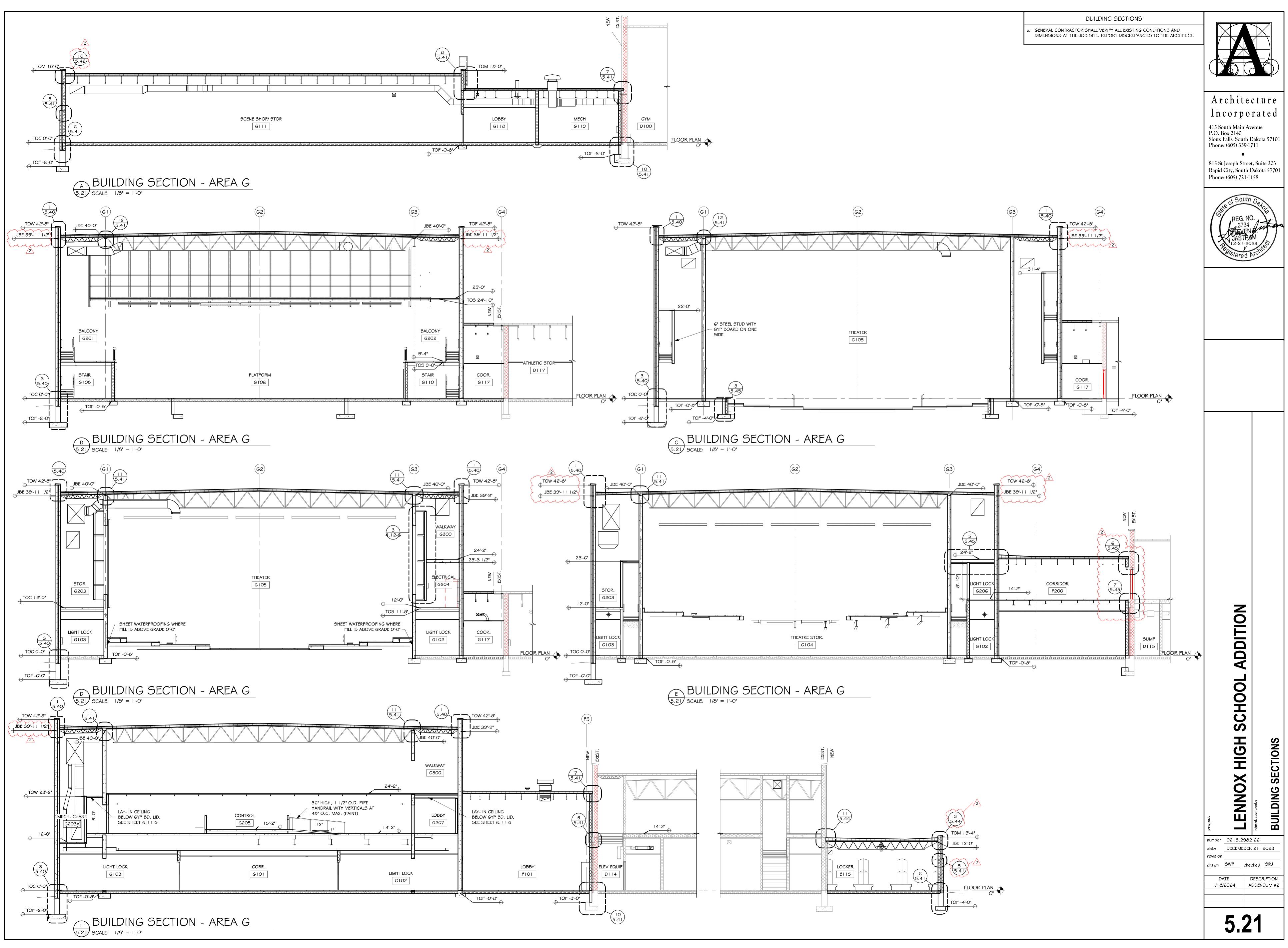


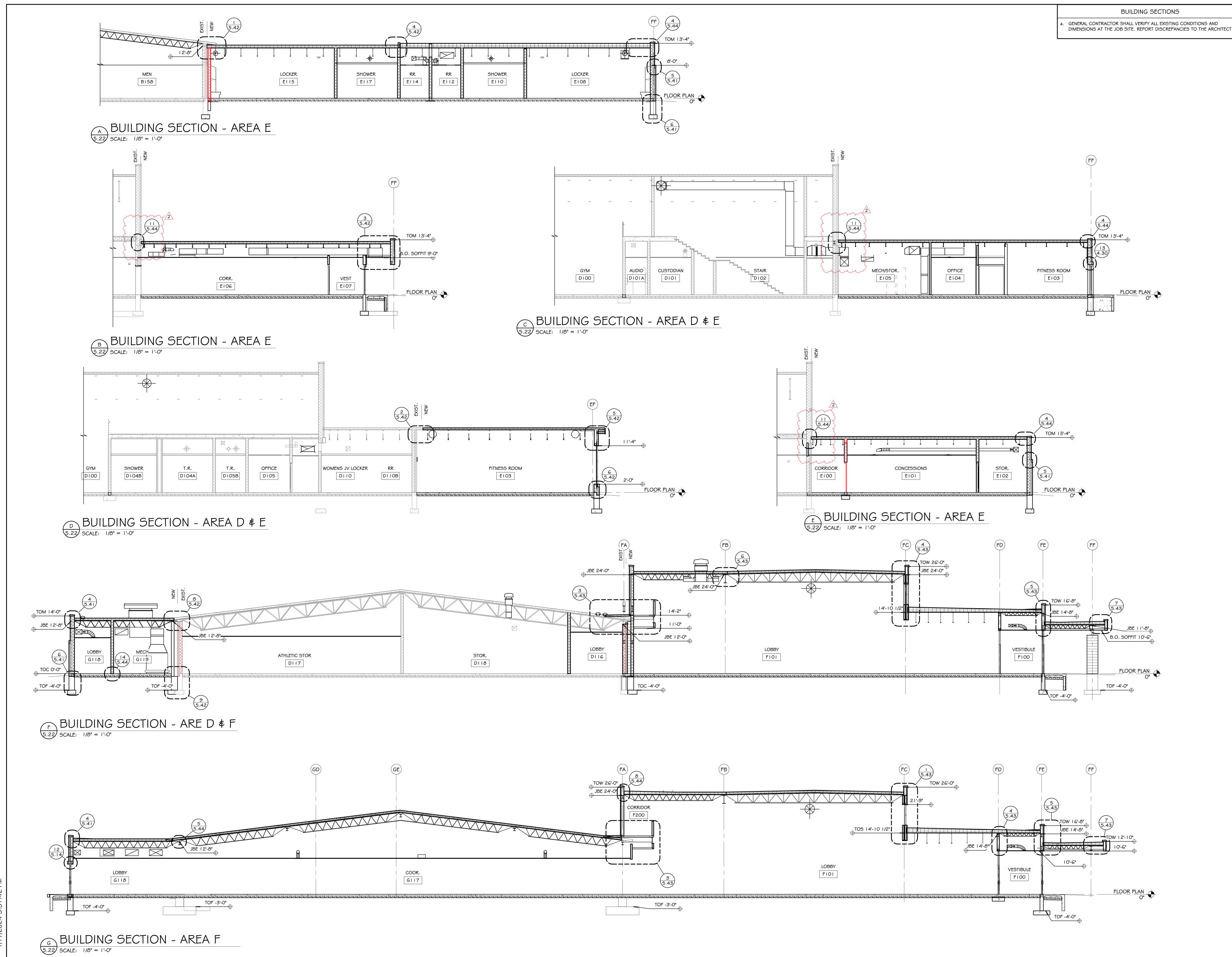


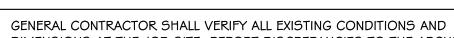


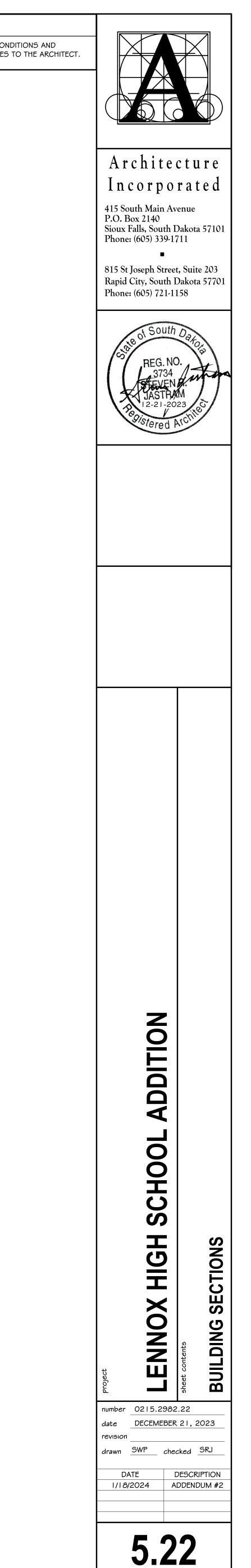


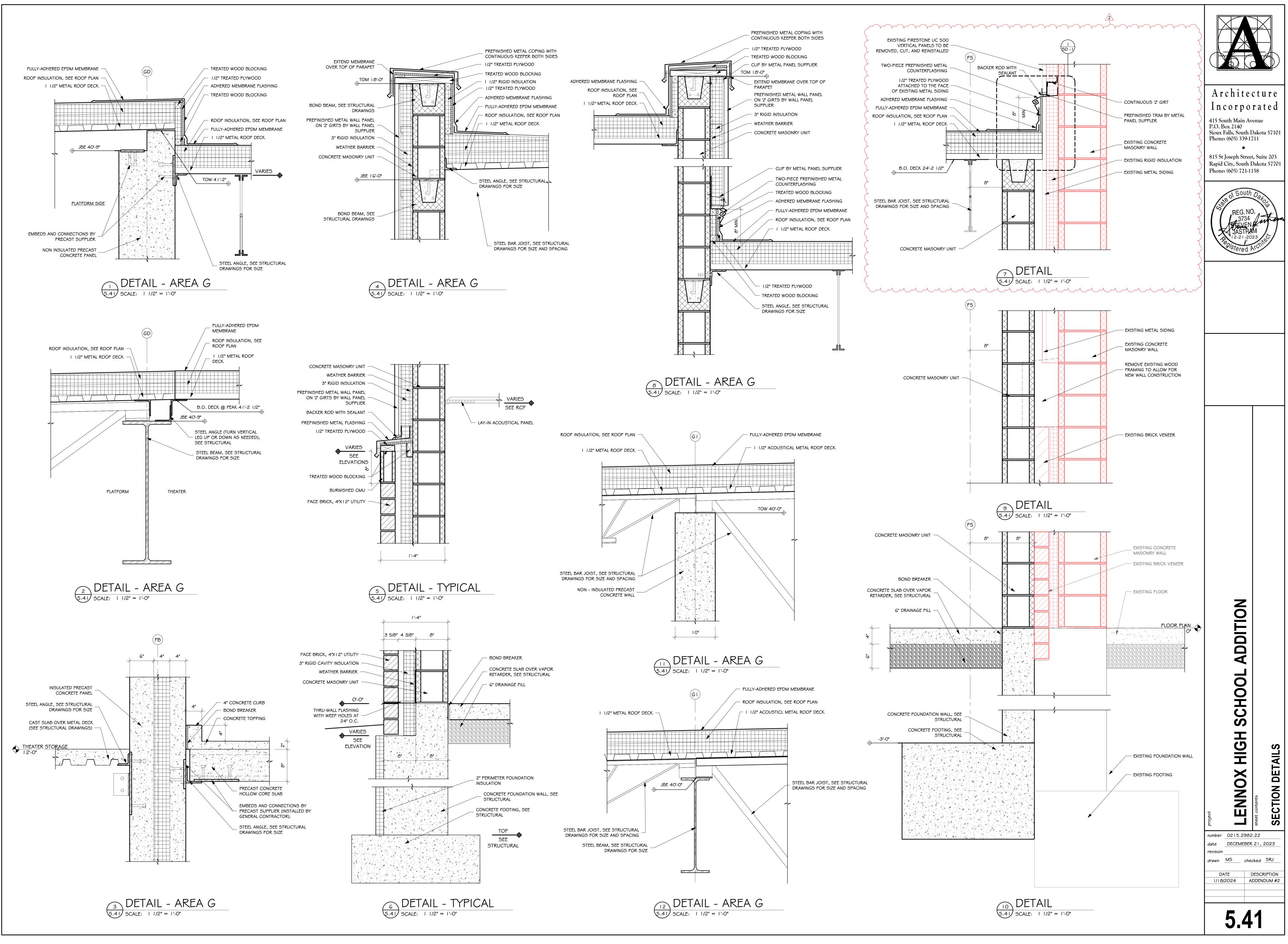


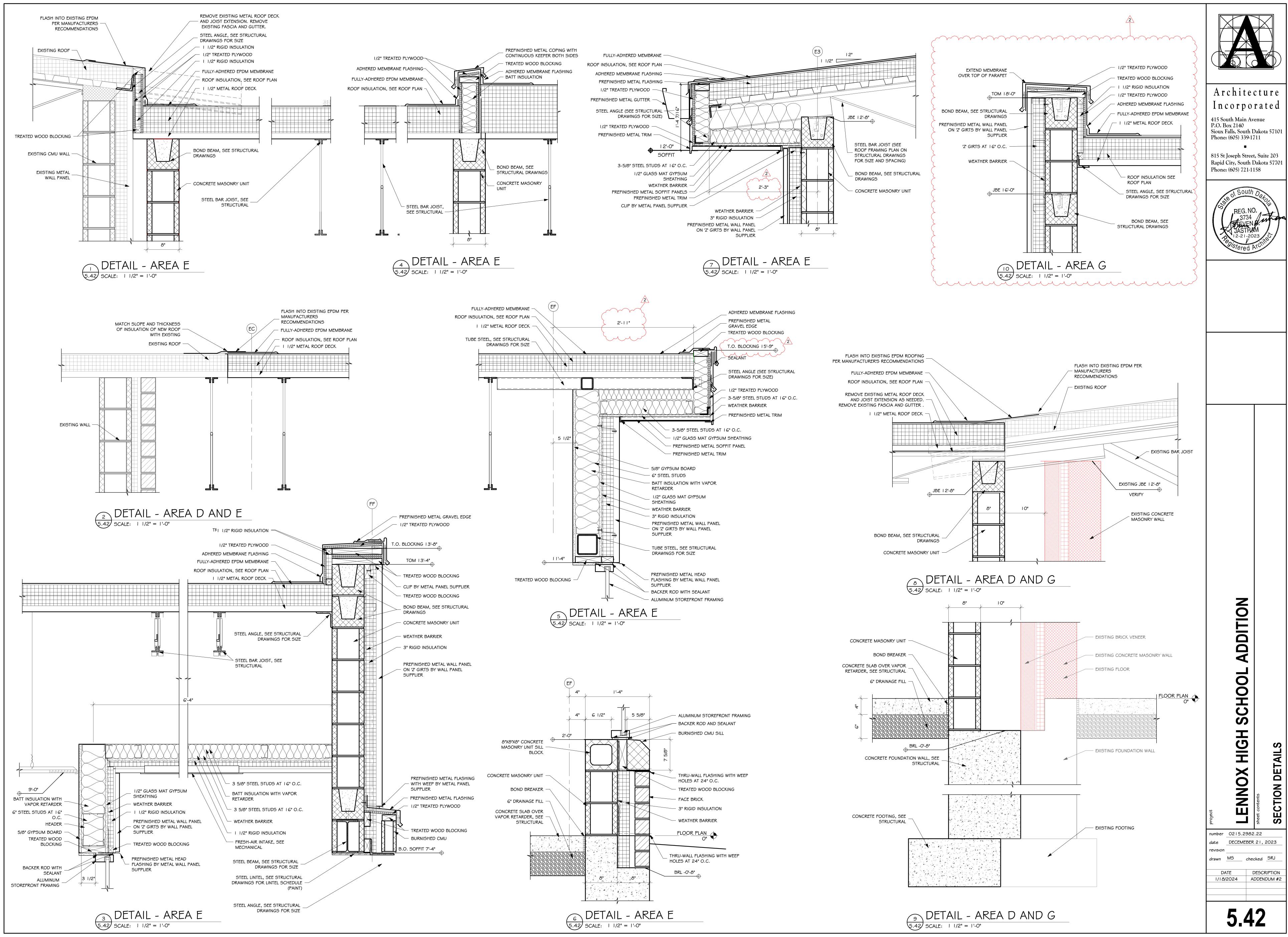




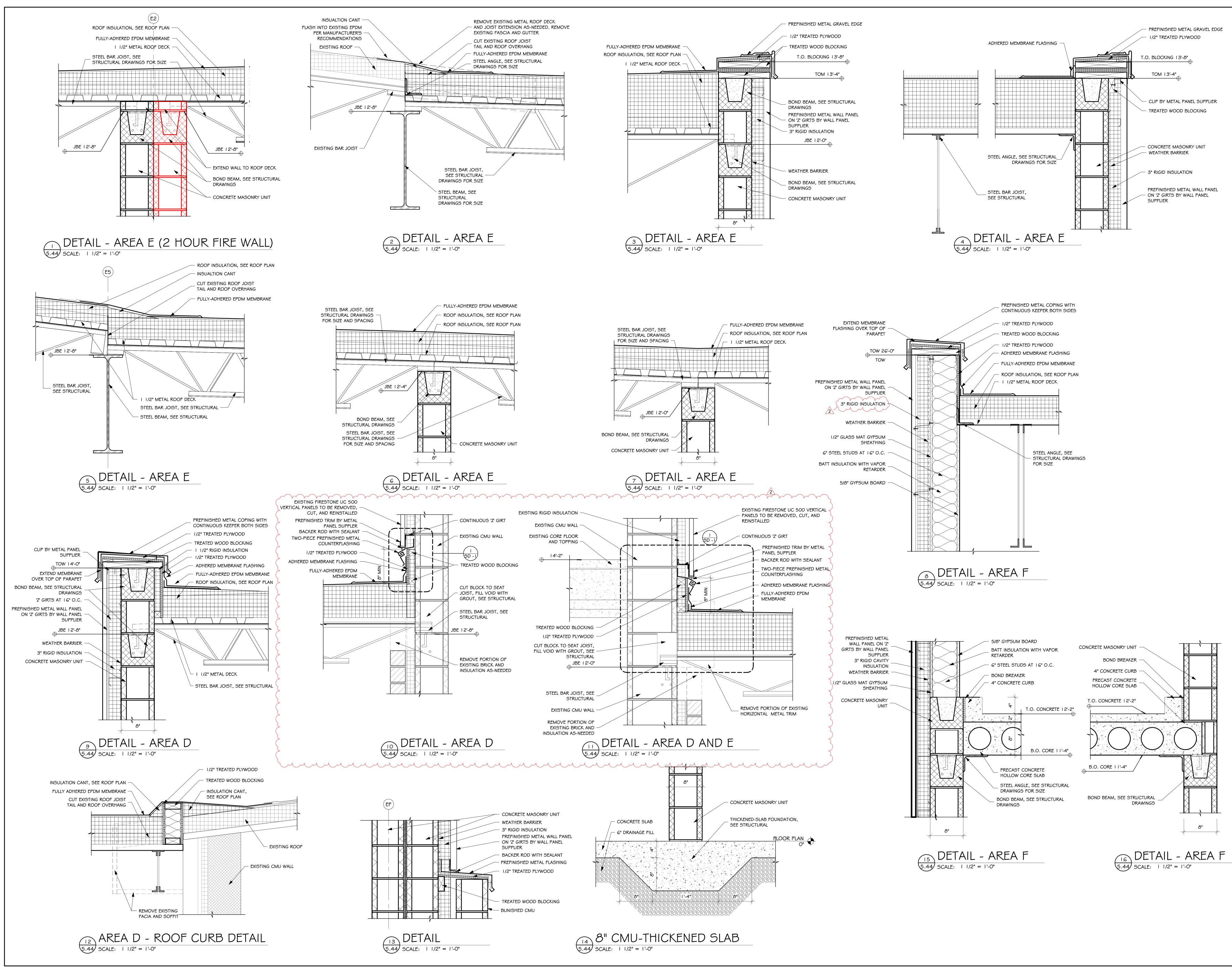


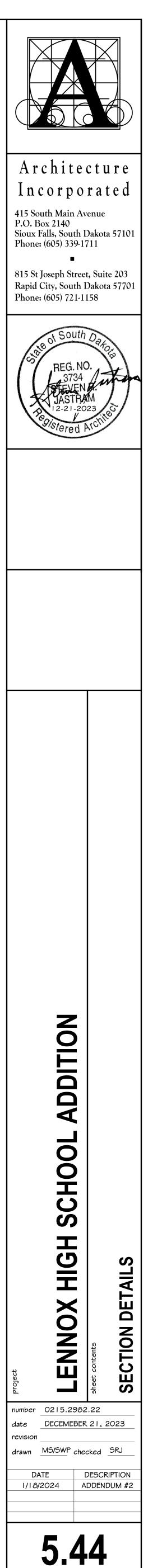


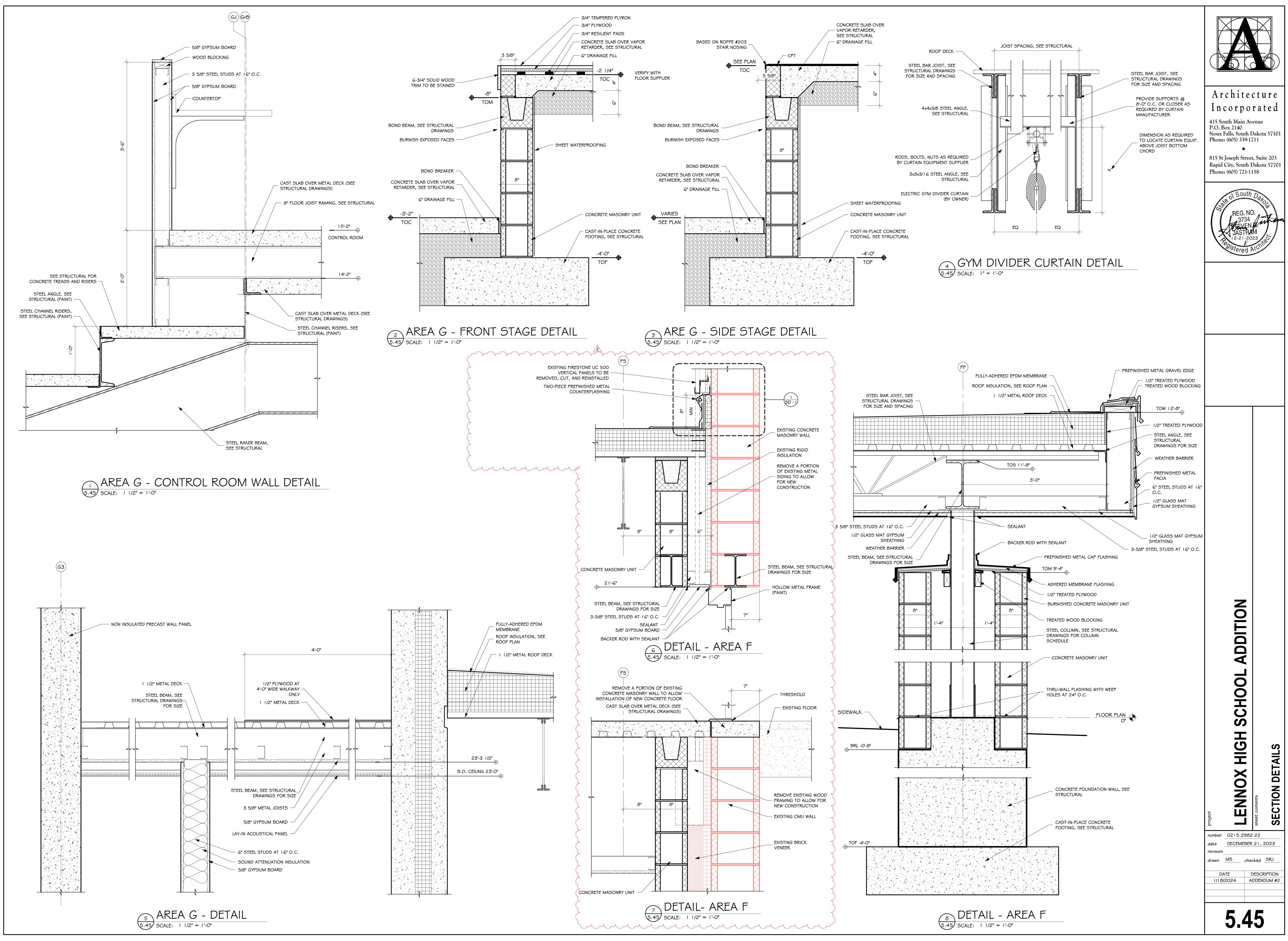




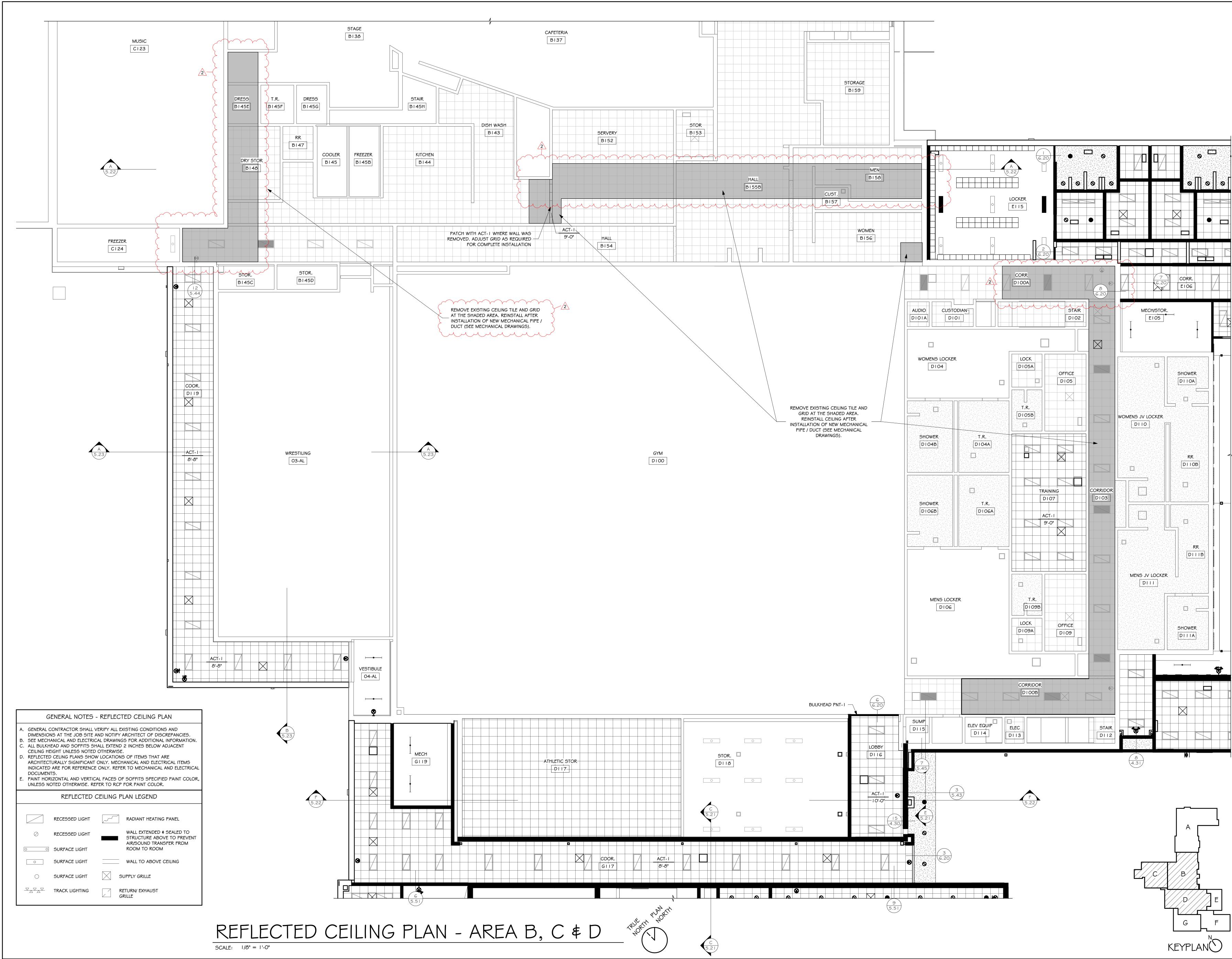
3/2024 6:02:49 PM

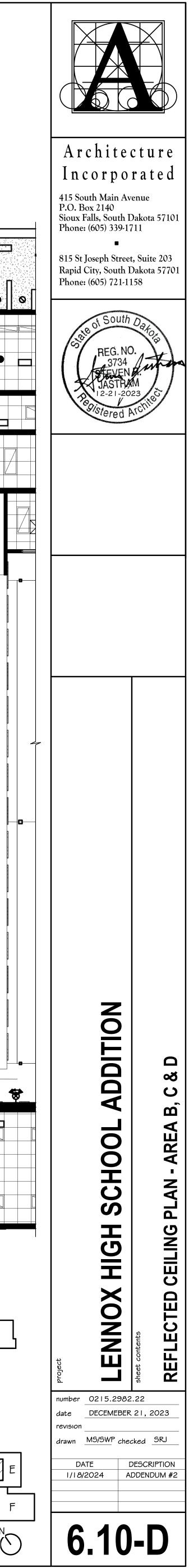


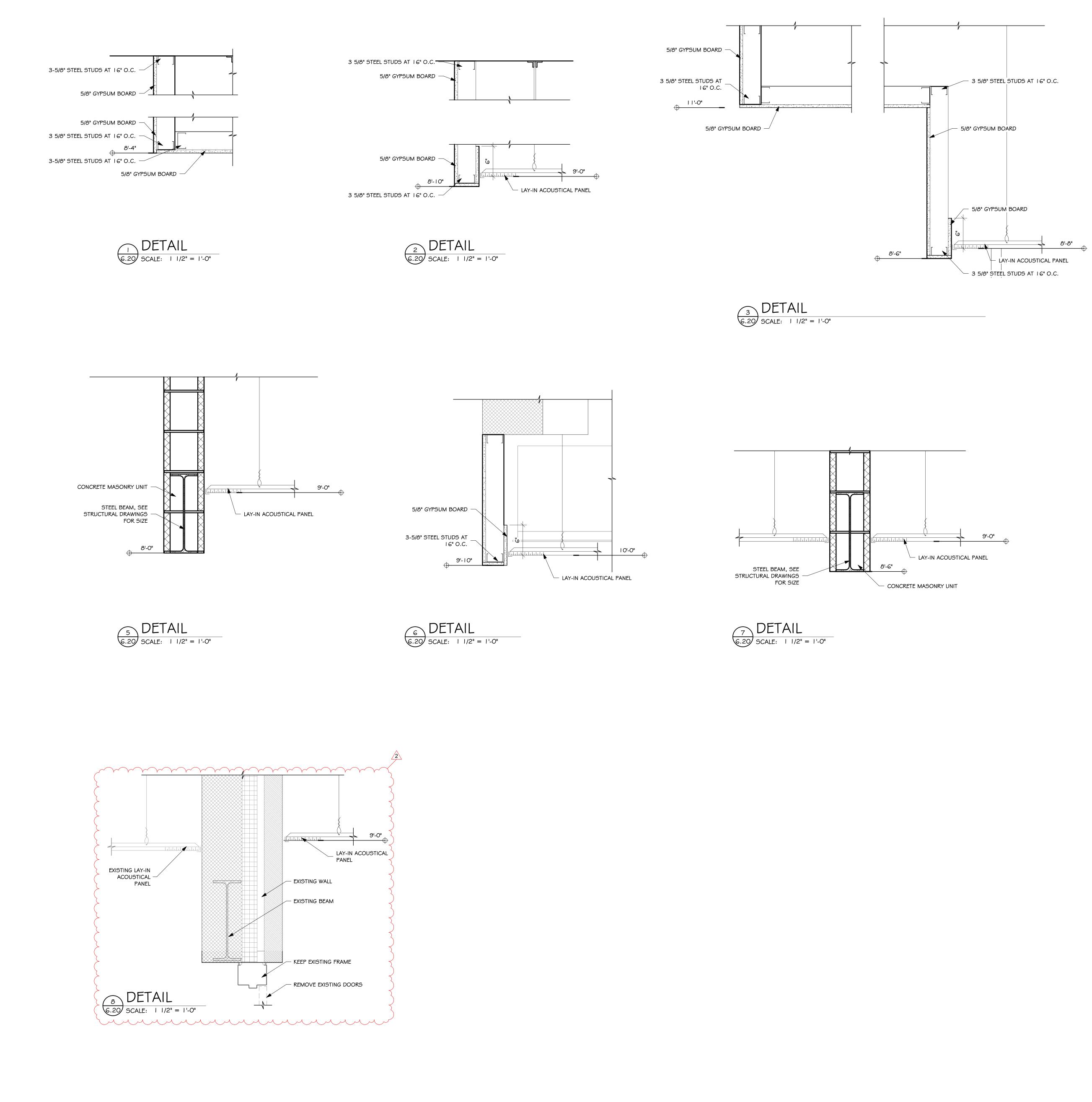


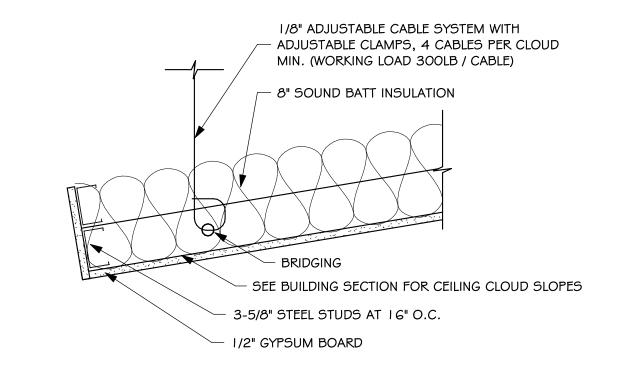


8/2024 5:14:13 PM

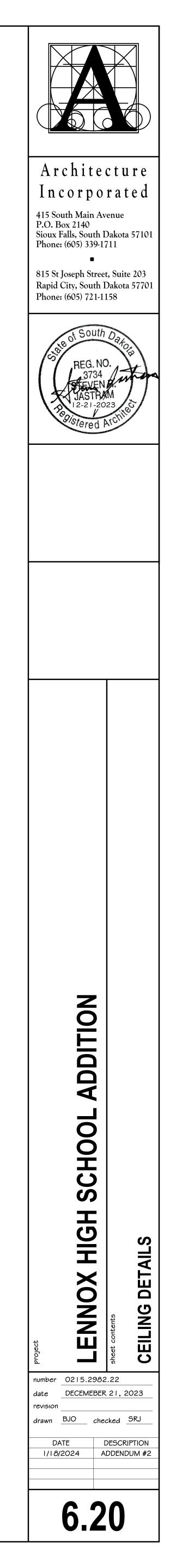


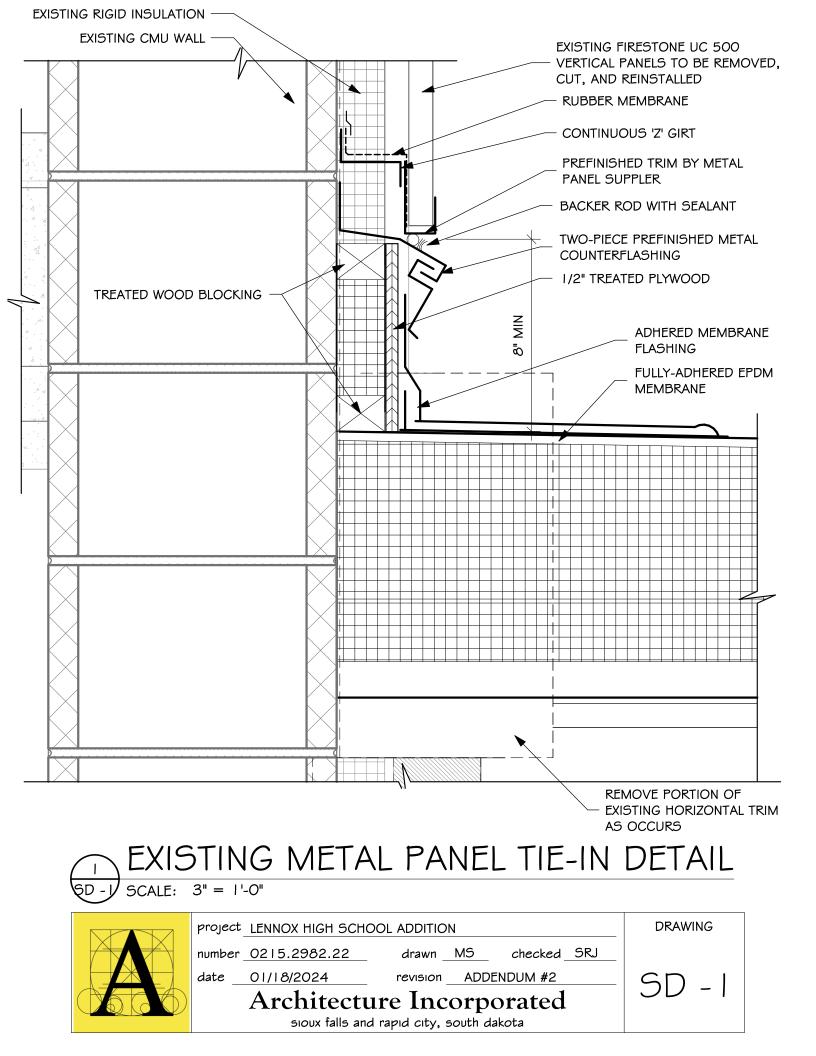


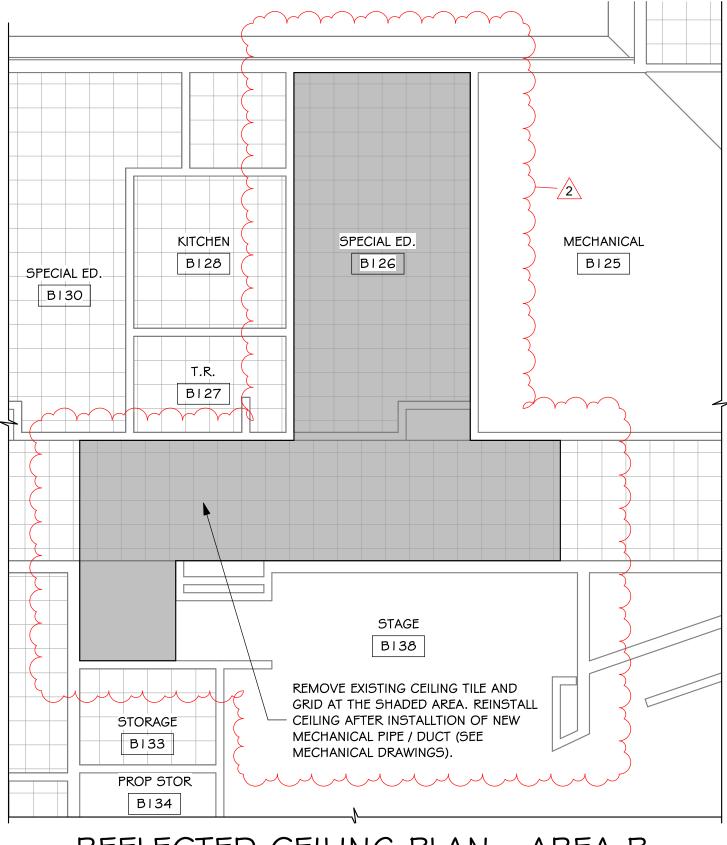




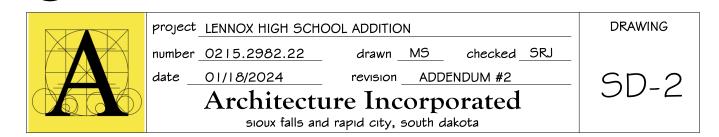
CEILING CLOUD DETAIL AT THEATER

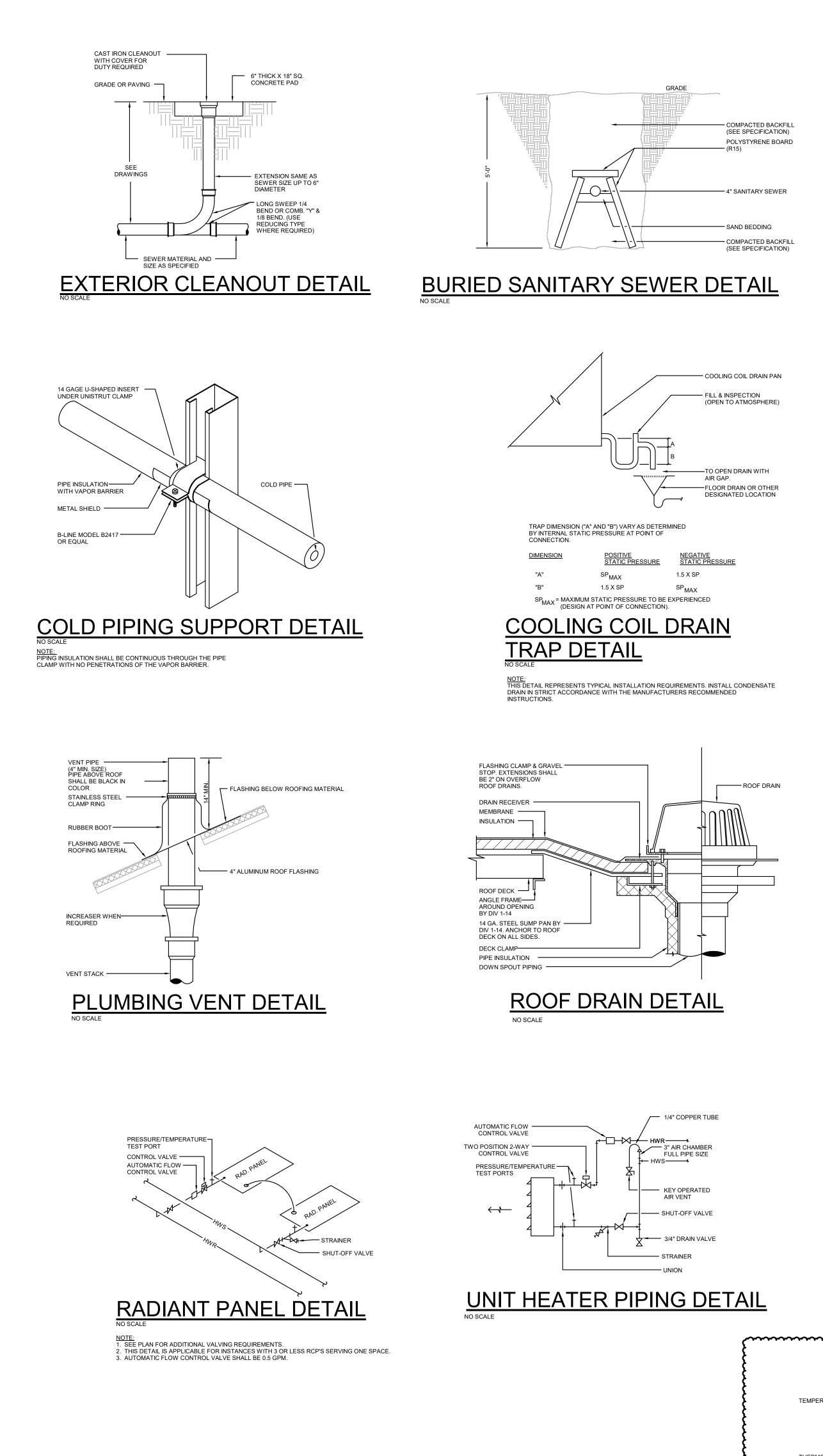


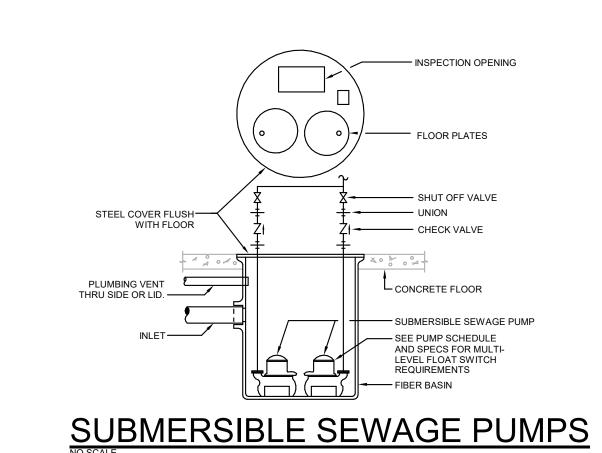


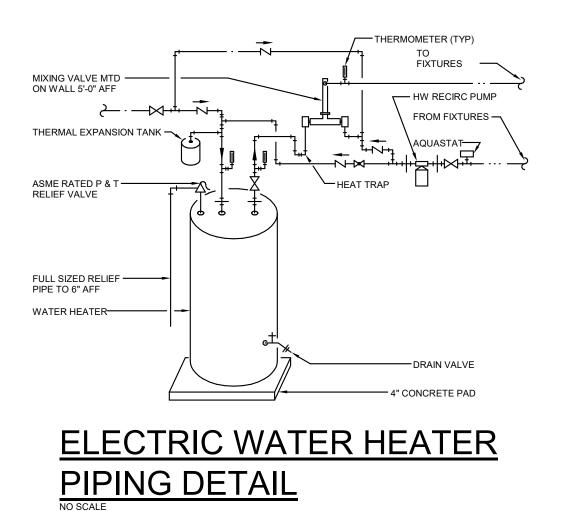


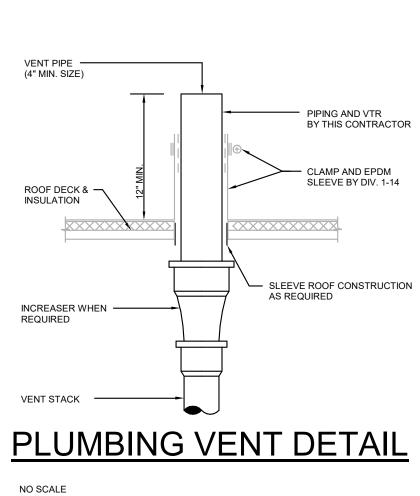
REFLECTED CEILING PLAN - AREA B





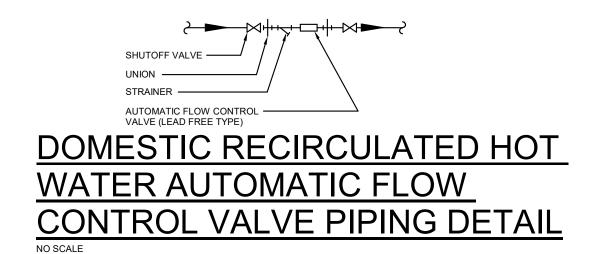


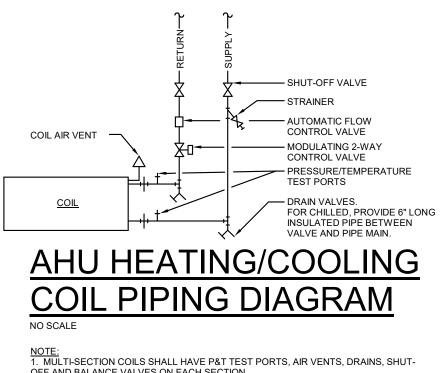


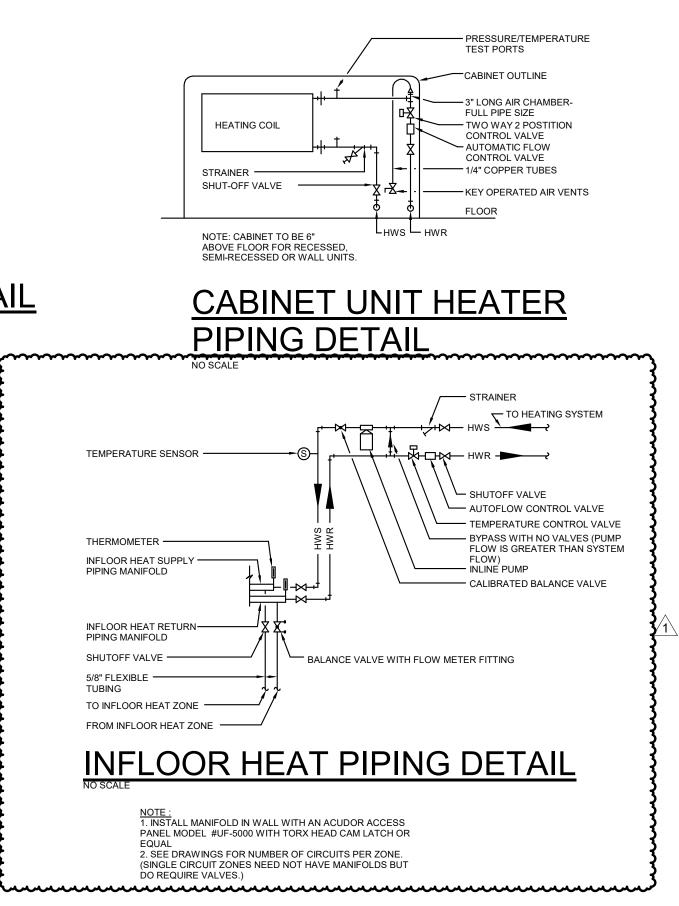


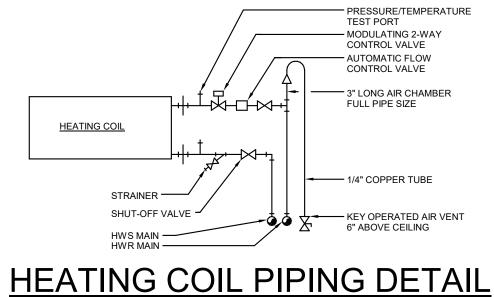
HEADS DETAIL



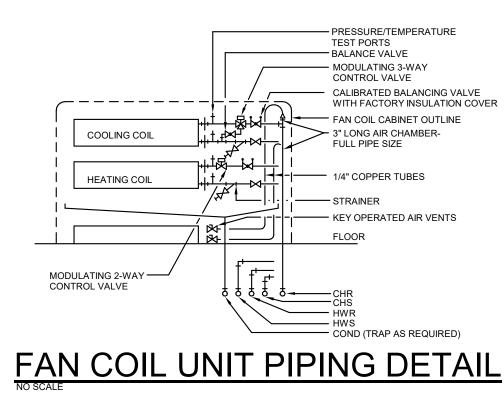


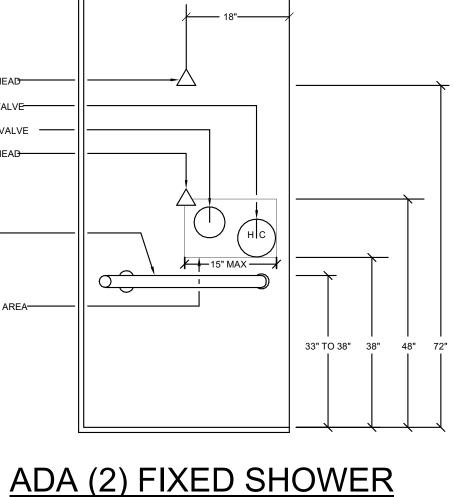






OFF AND BALANCE VALVES ON EACH SECTION.





_____ 18"_____

15" MAX

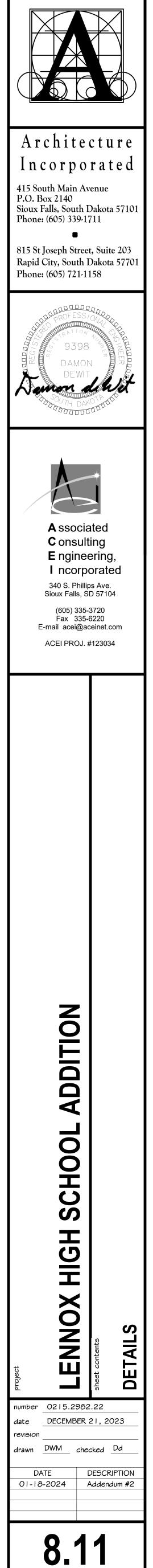
SHOWER HEAD

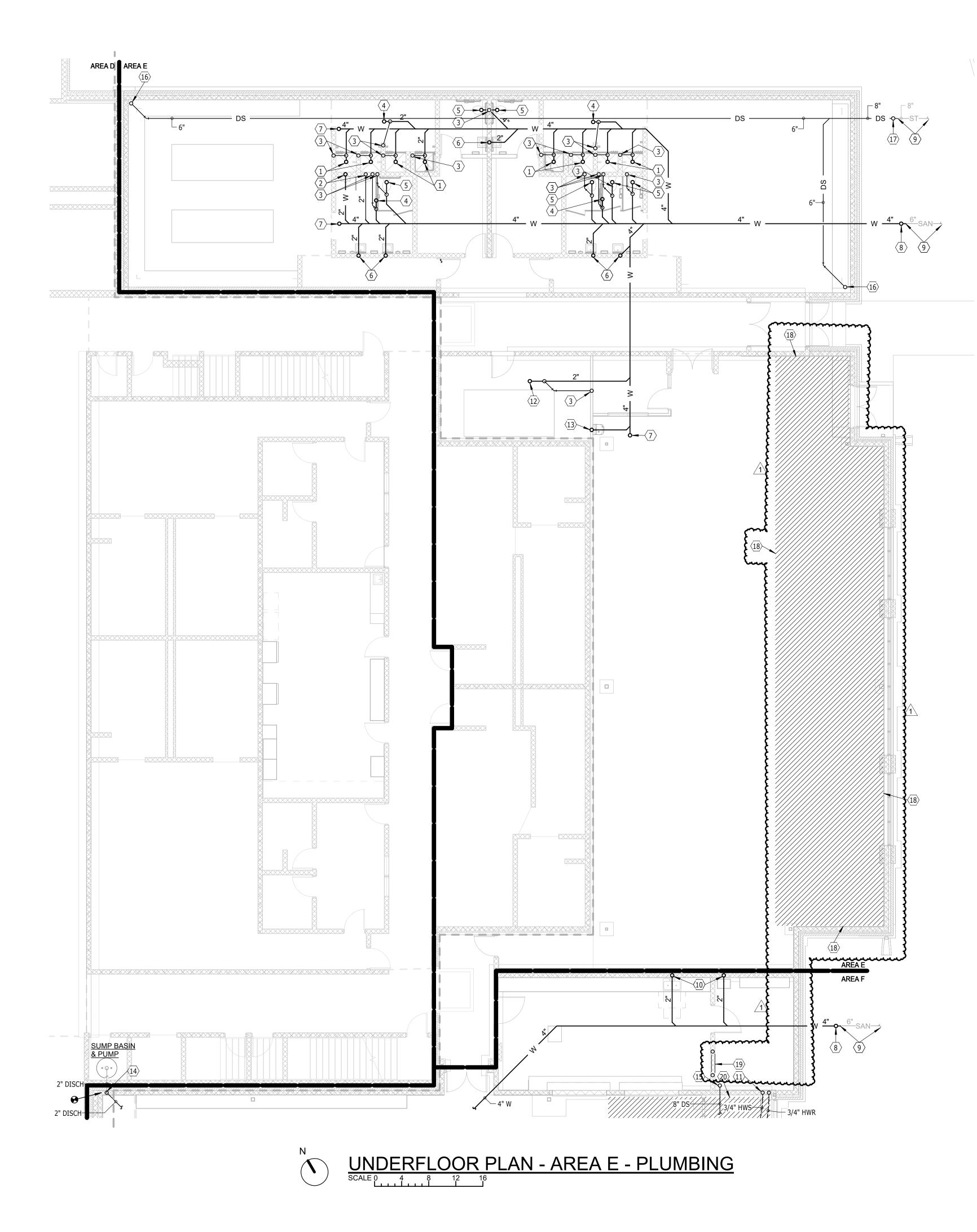
SHOWER VALVE

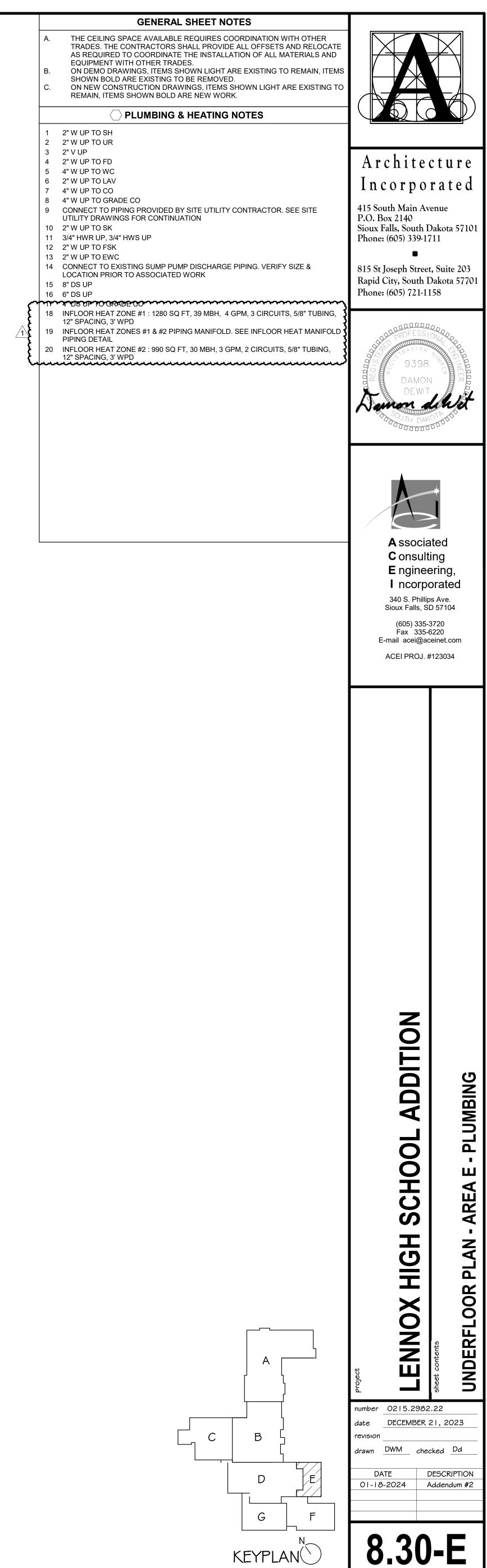
DIVERTER VALVE -

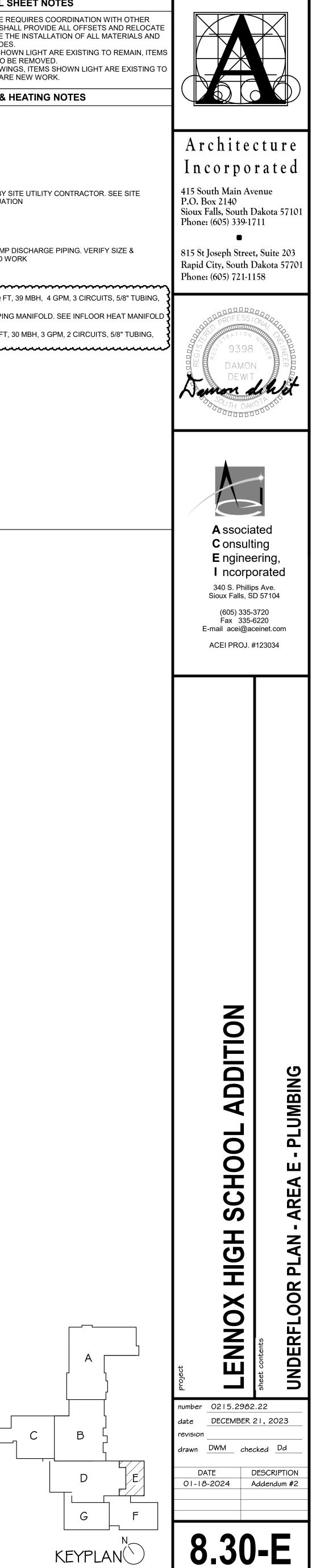
SHOWER HEAD

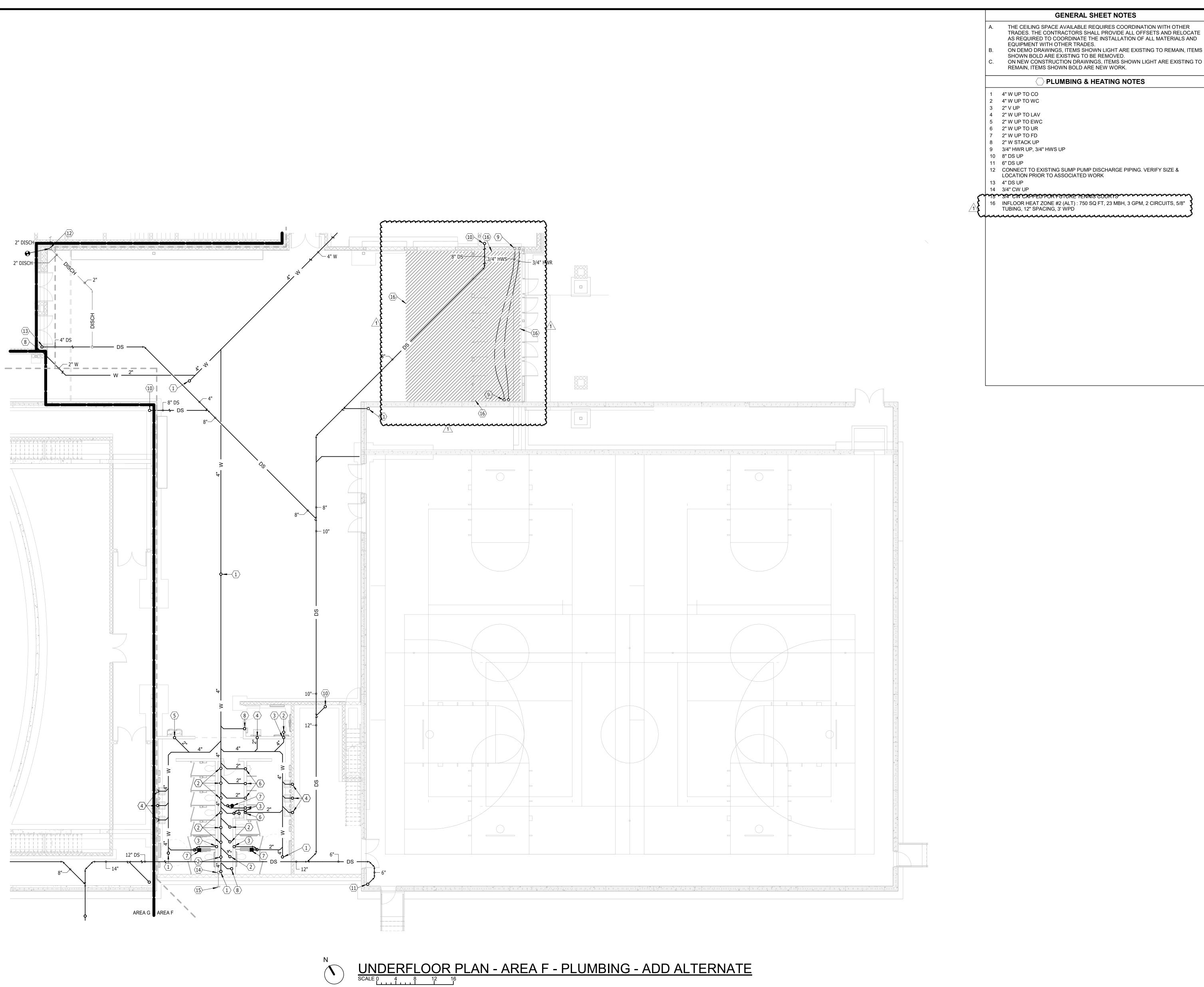
GRAB BAR ------



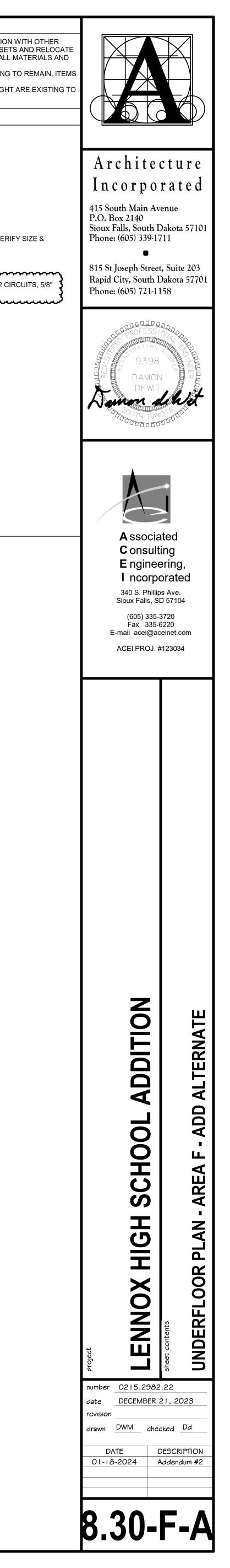




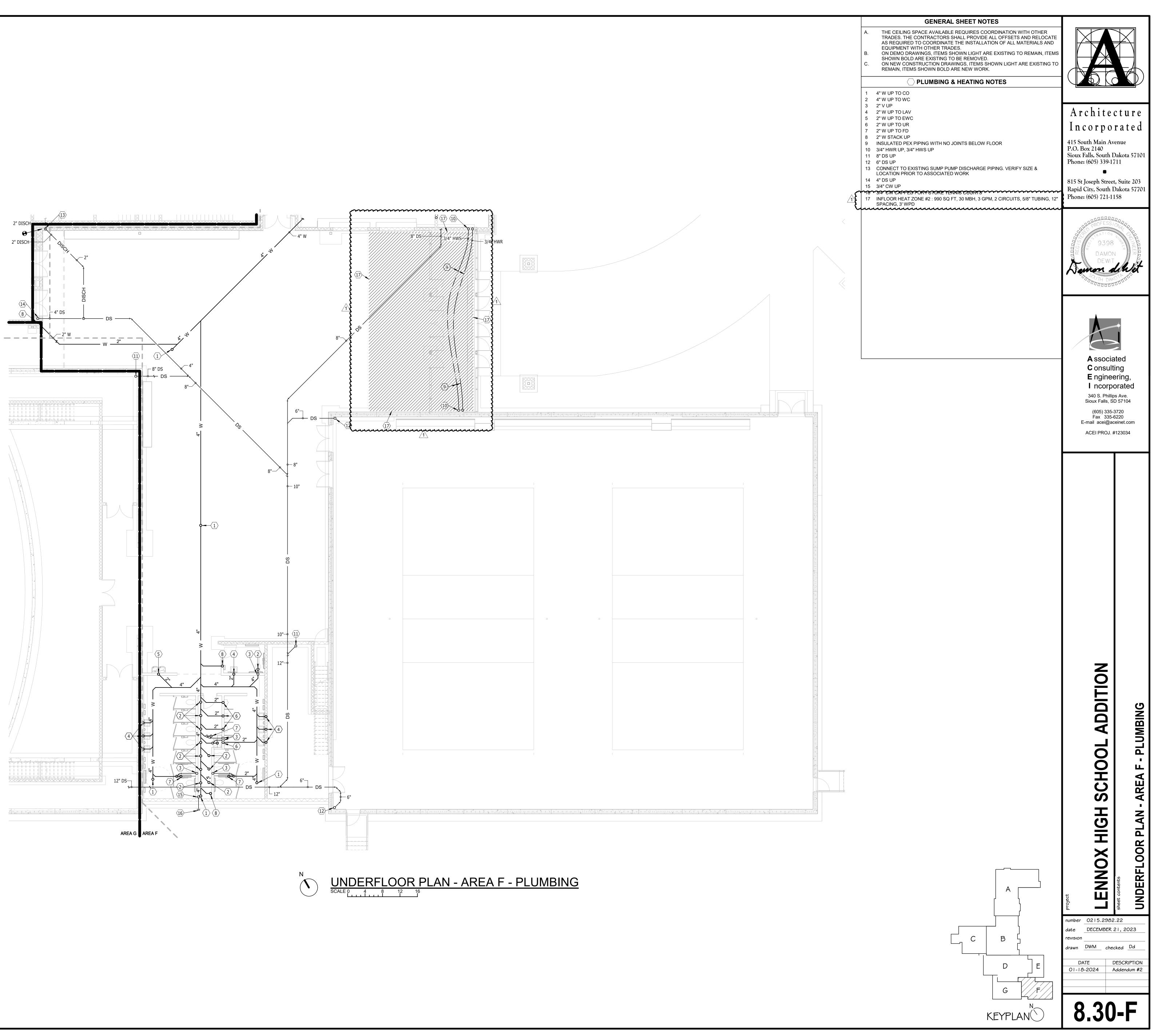


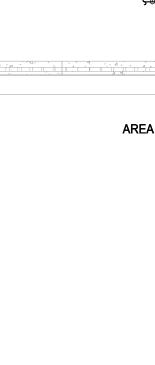


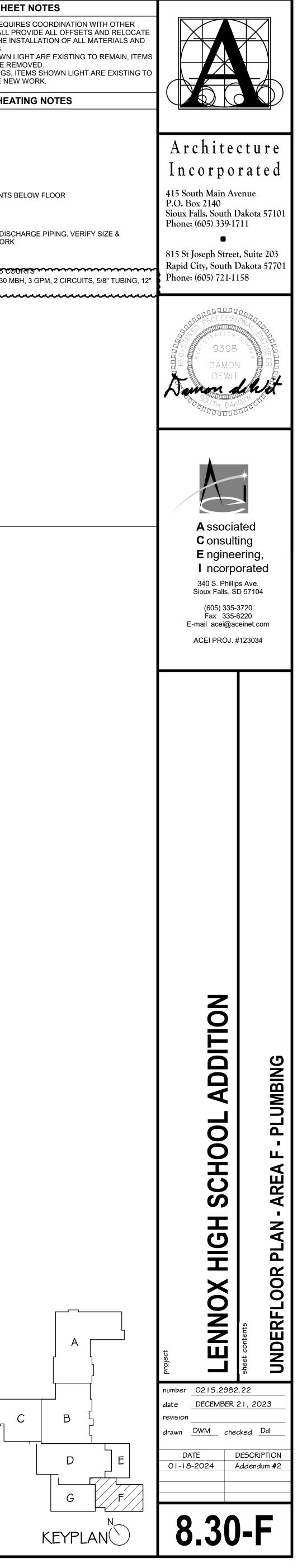


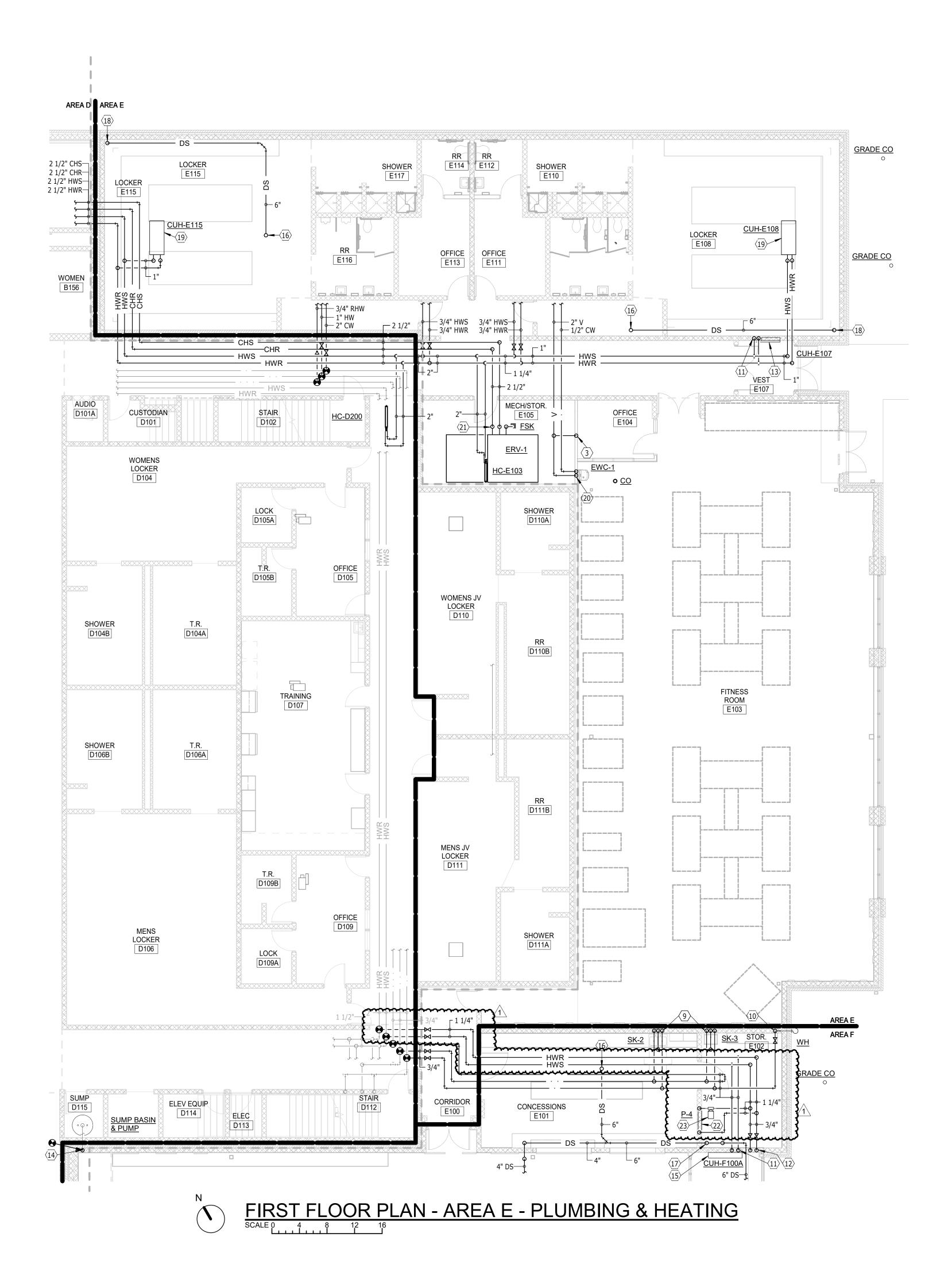






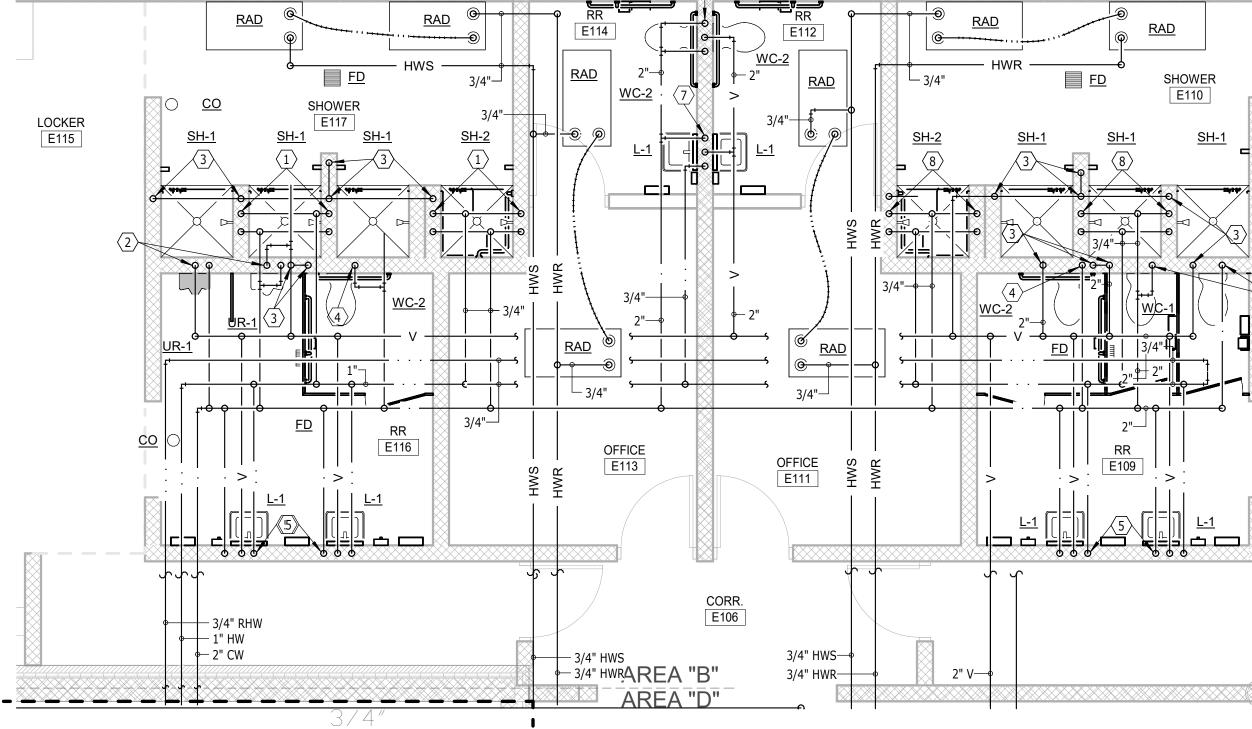






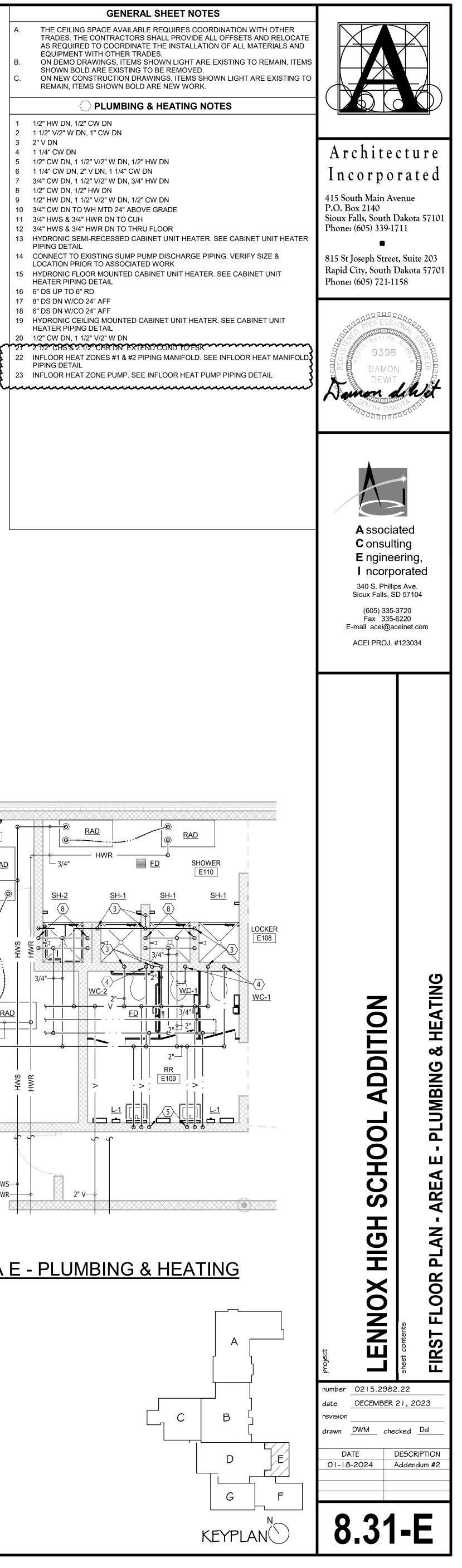
GENERAL SHEET NOTES

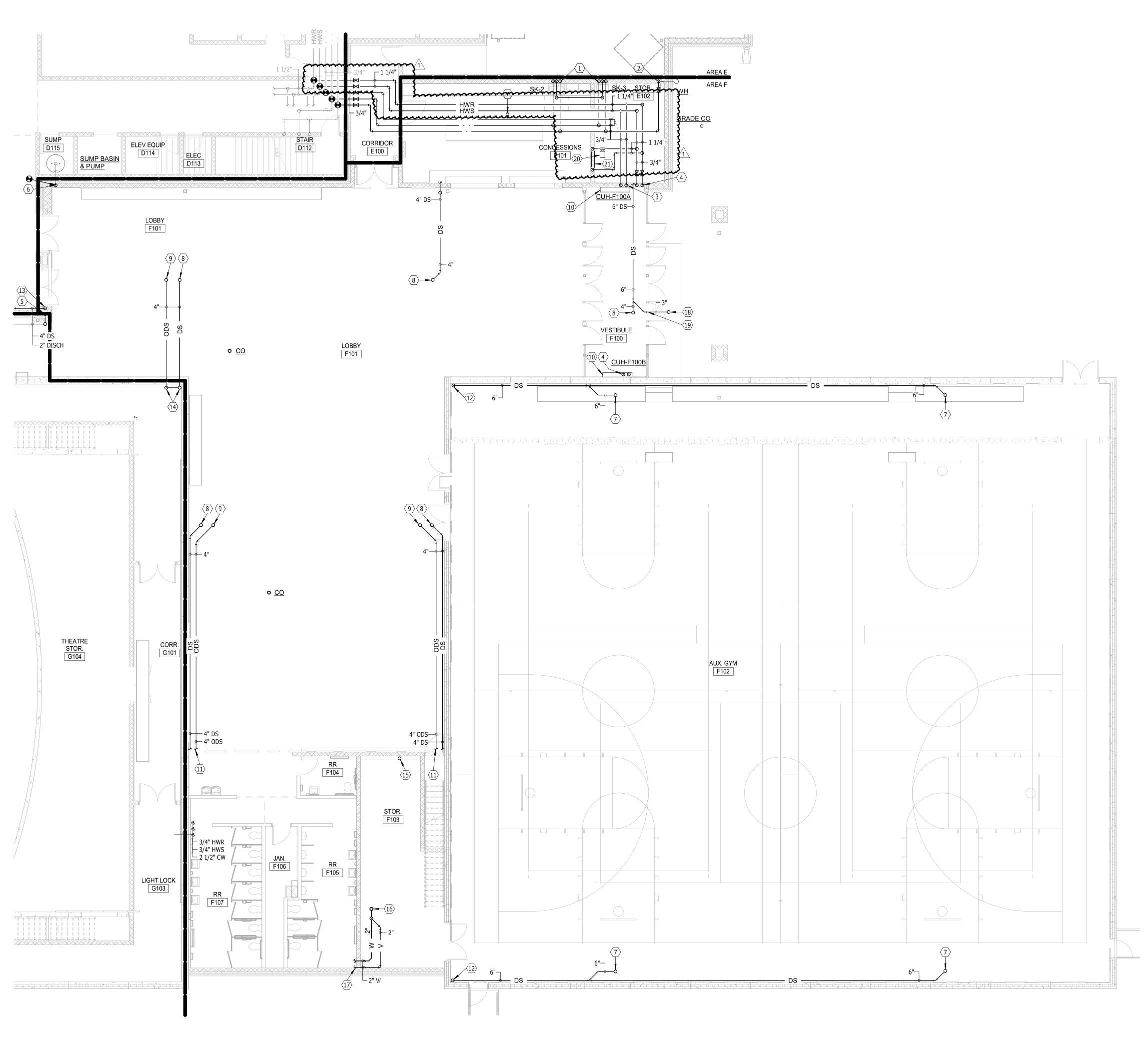
- THE CEILING SPACE AVAILABLE REQUIRES COORDINATION WITH OTHER TRADES. THE CONTRACTORS SHALL PROVIDE ALL OFFSETS AND RELOCATE AS REQUIRED TO COORDINATE THE INSTALLATION OF ALL MATERIALS AND EQUIPMENT WITH OTHER TRADES. ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS R SHOWN BOLD ARE EXISTING TO BE REMOVED. ON NEW CONSTRUCTION DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE NEW WORK. **PLUMBING & HEATING NOTES** 1 1/2" HW DN, 1/2" CW DN 2 1 1/2" V/2" W DN, 1" CW DN 3 2" V DN 4 1 1/4" CW DN
- 5 1/2" CW DN, 1 1/2" V/2" W DN, 1/2" HW DN 6 1 1/4" CW DN, 2" V DN, 1 1/4" CW DN
- 7 3/4" CW DN, 1 1/2" V/2" W DN, 3/4" HW DN
- 8 1/2" CW DN, 1/2" HW DN 9 1/2" HW DN, 1 1/2" V/2" W DN, 1/2" CW DN
- 10 3/4" CW DN TO WH MTD 24" ABOVE GRADE 11 3/4" HWS & 3/4" HWR DN TO CUH
- 12 3/4" HWS & 3/4" HWR DN TO THRU FLOOR
- PIPING DETAIL 14 CONNECT TO EXISTING SUMP PUMP DISCHARGE PIPING. VERIFY SIZE &
- LOCATION PRIOR TO ASSOCIATED WORK 15 HYDRONIC FLOOR MOUNTED CABINET UNIT HEATER. SEE CABINET UNIT HEATER PIPING DETAIL
- 16 6" DS UP TO 6" RD 17 8" DS DN W/CO 24" AFF
- 18 6" DS DN W/CO 24" AFF
- HEATER PIPING DETAIL
- 20 1/2" CW DN, 1 1/2" V/2" W DN 127 272 CHS & 21/2° CHR DN. EXTEND COND POFSR
- 22 INFLOOR HEAT ZONES #1 & #2 PIPING MANIFOLD. SEE INFLOOR HEAT MANIFOL PIPING DETAIL 23 INFLOOR HEAT ZONE PUMP. SEE INFLOOR HEAT PUMP PIPING DETAIL



 \bigwedge

ENLARGED FLOOR PLAN - AREA E - PLUMBING & HEATING

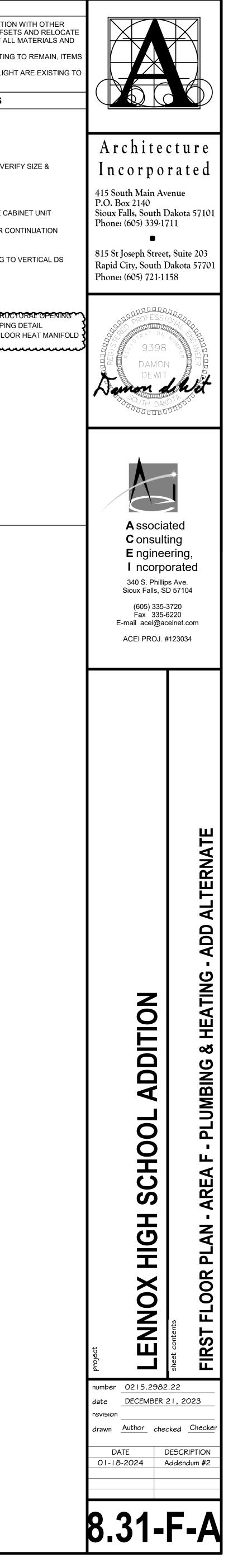


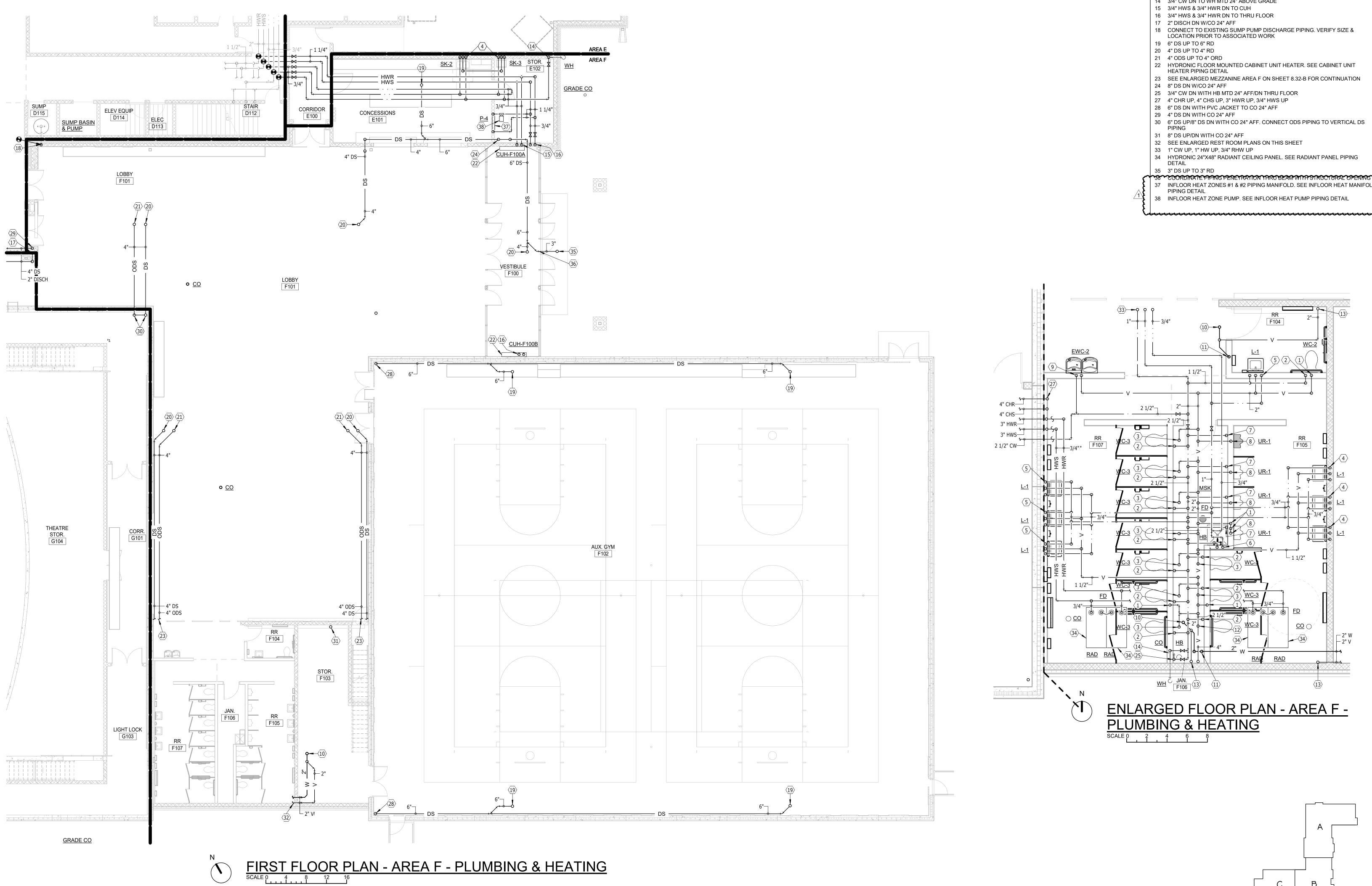


Ν

FIRST FLOOR PLAN - AREA F - PLUMBING & HEATING- ADD ALTERNATE

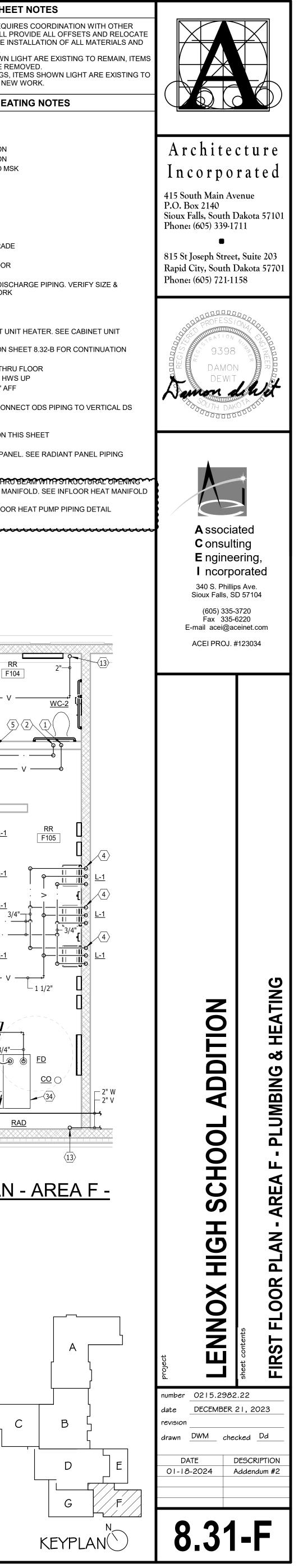
		GENERAL SHEET NOTES
	А. В. С.	THE CEILING SPACE AVAILABLE REQUIRES COORDINATION TRADES. THE CONTRACTORS SHALL PROVIDE ALL OFFSE AS REQUIRED TO COORDINATE THE INSTALLATION OF AL EQUIPMENT WITH OTHER TRADES. ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING SHOWN BOLD ARE EXISTING TO BE REMOVED. ON NEW CONSTRUCTION DRAWINGS, ITEMS SHOWN LIGH REMAIN, ITEMS SHOWN BOLD ARE NEW WORK.
		PLUMBING & HEATING NOTES
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	 1/2" HW DN, 1 1/2" V/2" W DN, 1/2" CW DN 3/4" CW DN TO WH MTD 24" ABOVE GRADE 3/4" HWS & 3/4" HWR DN TO CUH 3/4" HWS & 3/4" HWR DN TO THRU FLOOR 2" DISCH DN W/CO 24" AFF CONNECT TO EXISTING SUMP PUMP DISCHARGE PIPING. VEH LOCATION PRIOR TO ASSOCIATED WORK 6" DS UP TO 6" RD 4" DS UP TO 6" RD 4" ODS UP TO 4" RD 4" ODS UP TO 4" ORD HYDRONIC FLOOR MOUNTED CABINET UNIT HEATER. SEE CAHEATER PIPING DETAIL SEE ENLARGED MEZZANINE AREA F ON SHEET 8.32-B FOR CH 6" DS UP/8" DS DN WITH CO 24" AFF 4" DS UP/8" DS DN WITH CO 24" AFF. 6" DS UP/0N WITH CO 24" AFF 2" W UP TO FSK SEE ENLARGED REST ROOM PLANS ON THIS SHEET 3" DS UP TO 3" RD
		COORDINATE PIPING PENETRATION THRO BEAM WITH STRO INFLOOR HEAT ZONE PUMP. SEE INFLOOR HEAT PUMP PIPIN INFLOOR HEAT ZONES #1 & #2 PIPING MANIFOLD. SEE INFLO PIPING DETAIL
Υ. Υ.		

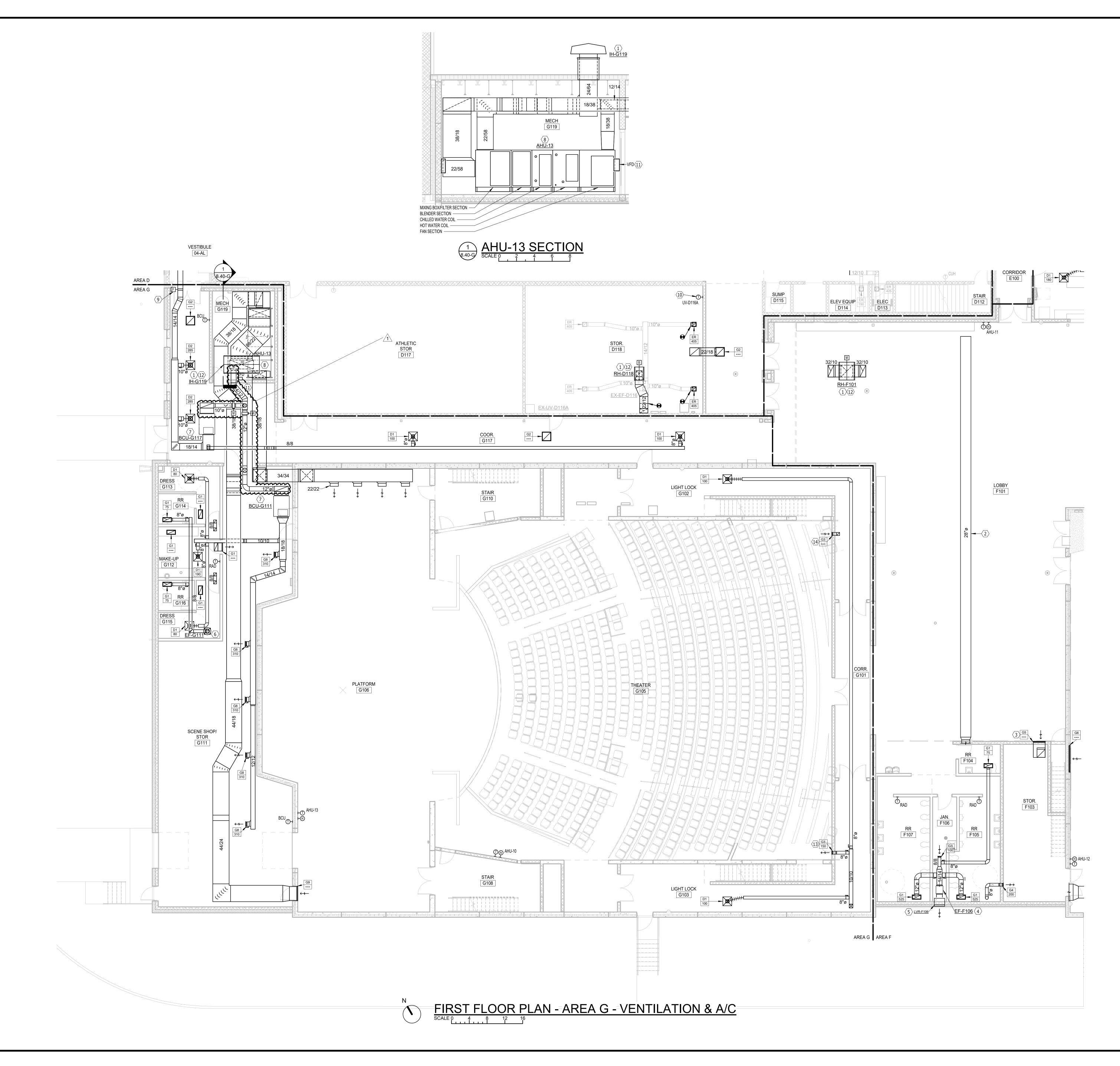




/18/2024 12:50:40 PN

GENERAL SHEET NOTES THE CEILING SPACE AVAILABLE REQUIRES 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. ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS B SHOWN BOLD ARE EXISTING TO BE REMOVED. ON NEW CONSTRUCTION DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE NEW WORK. **PLUMBING & HEATING NOTES** 1 2" V DN 2 1 1/4" CW DN 3 2" V/4" W DN 4 1/2" HW DN, 1 1/2" V/2" W DN, 1/2" CW DN 5 1/2" CW DN, 1 1/2" V/2" W DN, 1/2" HW DN 6 3/4" CW DN TO HB/MSK, 1/2" HW DN TO MSK 7 1" CW DN 8 1 1/2" V/2" W DN 9 1/2" CW DN, 1 1/2" V/2" W DN 10 2" W UP TO FSK 11 2" W DN W/CO 24" AFF 12 4" V/W DN 13 2" V UP 14 3/4" CW DN TO WH MTD 24" ABOVE GRADE 18 CONNECT TO EXISTING SUMP PUMP DISCHARGE PIPING. VERIFY SIZE & 22 HYDRONIC FLOOR MOUNTED CABINET UNIT HEATER. SEE CABINET UNIT 23 SEE ENLARGED MEZZANINE AREA F ON SHEET 8.32-B FOR CONTINUATION 25 3/4" CW DN WITH HB MTD 24" AFF/DN THRU FLOOR 30 6" DS UP/8" DS DN WITH CO 24" AFF. CONNECT ODS PIPING TO VERTICAL DS 32 SEE ENLARGED REST ROOM PLANS ON THIS SHEET 34 HYDRONIC 24"X48" RADIANT CEILING PANEL. SEE RADIANT PANEL PIPING 138 COORDINATE PIPING PENETRA NON TARU BEAM WITH STRUCTURAL OPENING 37 INFLOOR HEAT ZONES #1 & #2 PIPING MANIFOLD. SEE INFLOOR HEAT MANIFOLD



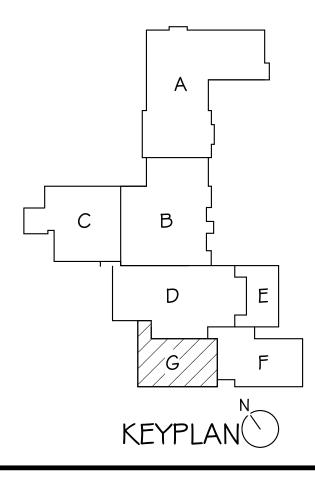


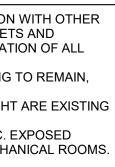
GENERAL SHEET NOTES

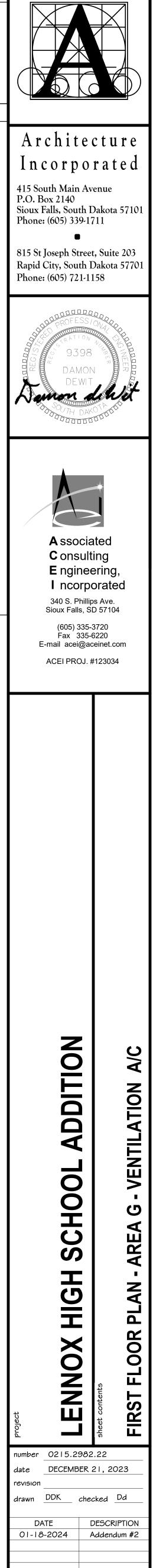
- THE CEILING SPACE AVAILABLE REQUIRES COORDINATION WITH OTHER TRADES. THE CONTRACTORS SHALL PROVIDE ALL OFFSETS AND RELOCATE AS REQUIRED TO COORDINATE THE INSTALLATION OF ALL MATERIALS AND EQUIPMENT WITH OTHER TRADES. ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE EXISTING TO BE REMOVED. ON NEW CONSTRUCTION DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE NEW WORK.
- ALL EXPOSED DUCTWORK SHALL BE DUCTMATE OR TDC. EXPOSED DUCTWORK SHALL BE PAINT-GRIP TYPE EXCEPT IN MECHANICAL ROOMS.

\rightarrow VENTILATION NOTES

- INTAKE OR RELIEF HOOD. SEE DETAIL.
- 90' OF FABRIC DUCT INSTALLED BELOW BAR JOISTS WITH BOTTOM OF DUCT AT 19'-6" AFF. 4,200 CFM. FABRIC DUCT SYSTEM DESIGNED BY FABRIC DUCT
- MANUFACTURER. COLOR/DESIGN BY ARCHITECT. RETURN GRILLE INSTALLED WITH BOTTOM OF GRILLE 8" AFF.
- IN-LINE EXHAUST FAN HUNG FROM STRUCTURE WITH ANTI-VIBRATION HANGING KIT. PROVIDE FLEXIBLE DUCT CONNECTIONS. LOUVER. SEE DETAIL.
- ROOF MOUNTED EXHAUST FAN INSTALLED ON INSULATED ROOF CURB. BLOWER COIL UNIT INSTALLED TIGHT TO STRUCTURE. PROVIDE FLEXIBLE DUCT CONNECTIONS. PROVIDE OUTSIDE AIR WITH MOTORIZED DAMPER UP TO
- GOOSENECK ON ROOF. AIR HANDLING UNIT SET ON 4" CONCRETE PAD. CONCRETE PAD BY GENERAL
- CONTRACTOR. FIRE DAMPER INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
- 10 RELOCATED T-STAT.
- 11 AHU VFD, COORDINATE EXACT LOCATIONS. 12 OPENING FOR INTAKE/RELIEF HOOD MUST BE A MINIMUM OF 4'-0" AWAY FROM
- RATED WALL. 13 SUPPLY GRILLE AND DUCTS FOR THEATRE STORAGE G104. 14 RETURN GRILLE AND DUCTS FOR THEATRE STORAGE G104.







8.40-G

					. —					\							
		RECOVE	RY VEN			<u>OR S</u>	<u>SCH</u>	EDU	JLE	$ \rightarrow $							
UNIT	MANUF.	MODEL NO.		SUI	PPLY	AIR	1			è			\sim	EXHAUS	TAIR		
NO.				CFN		ESP	FAN H			RPM Š	MCA	MOC		CFM		AN HP	VOLT/
ERV-1	VTS	AVS100-R-EFRCV	/ AVS100-L-FRV	11,	,000	1.5"	7.5(X2	2) 48	80/3	1730 č	23.8	30.9		11,000	1.5" !	5(X2)	480/3
REMAR	-												-				
		VARIABLE FREQ. DI			// MC	DTOR SHA	AFT GRC	JUNDIN	IG RINGS. F	AN VFD'	S WILL B	E BY TEI	/IPER/	ATURE (CONTROL C	ONTRAC	TOR. W
		DRIVE PREMIUM E					~										
		PACITIES BASED O	N 60% WATER/40	% PRU	PYLE	NE GLYCC	JL.										
4. IUIA	LENERGYAI	LUMINUM WHEEL.															
AH	J SCH	EDULE															
AHU	MANUF.	MODEL	CFM MIN C	/A E	SP	TSP	FAN		MOTOR	FAN				COOLI	NG COIL CA	APACITY	
NO.		NO.	CFM				MHP	внр	VOLTS/PF	I TYPE/	/SIZE		RPM		EAT	LAT	ſ
AHU-10	DAIKIN	CAH032GDGM	15,500 5,500	2	.50	4.56	20	16.24	480/3	DD, P	LENUM/	30	1495	635.7	82.0/67.2	2 54.0,	/53.6
AHU-11	DAIKIN	CAH010GDGM	4,200 1,140	1	.50	3.17	5	3.40	480/3	DD, P	LENUM/	16	2656	163.1	81.1/66.3	53.7	/53.2
AHU-12	DAIKIN	CAH018GDGM	8,500 3,665	1	.50	3.65	10	7.00	480/3	DD, P	LENUM/	24	1568	391.4	83.6/68.5	53.8,	/53.5 4
AHU-13	DAIKIN	CAH014GDGM	6,200 1,460	1	.50	3.29	7.5	4.59	480/3	DD, P	LENUM/	22	1611	235.7	81.6/66.0) 53.7,	/53.1 4
REMAR	KS:																
1. HEA ⁻	ING COIL CA	APACITIES ARE BAS	ED ON 75% WAT	R/25%	5 PRO	PYLENE G	GLYCOL,	, COOLI	NG COIL CA	PACITIE	S ARE BA	SED ON	60%	WATER/	40% PROP	YLENE G	LYCOL.
	TING COIL CA R APD AT M		ED ON 75% WAT	R/25%	5 PRO	PYLENE G	GLYCOL,	, COOLI	NG COIL CA	PACITIE	S ARE BA	SED ON	60% \	WATER/	40% PROP	YLENE G	LYCOL.
2. FILTE	R APD AT M			-										-			
2. FILTE 3. DIRE	R APD AT M CT DRIVE PL	EAN LIFE.	PEED CONTROLLI	D WITH	ΗΑV	FD PROV	IDED B	Υ ΤΕΜΡ	ERATURE C	ONTROL	LCONTR	ACTOR,	PROVI	DE PREI	MIUM EFFI	CIENCY	MOTOR.
2. FILTE 3. DIRE 4. ACCE	R APD AT M CT DRIVE PL SS SHALL BE	EAN LIFE. ENUM FAN. FAN S	PEED CONTROLLI THE FILTER SECTIO	D WITH N, BLE	H A V NDEF	FD PROV R SECTION	'IDED B' N, BETW	Y TEMP VEEN TH	ERATURE C	CONTROL	L CONTR/ OOLING (ACTOR, COILS, A	PROVI	DE PREI	MIUM EFFI	CIENCY	MOTOR.
 FILTE DIRE ACCE PROV 	R APD AT M CT DRIVE PL SS SHALL BE IDE HEAVY	EAN LIFE. ENUM FAN. FAN S E PROVIDED INTO T	PEED CONTROLLI HE FILTER SECTIO AINLESS STEEL D	D WITH N, BLE RAIN P/	H A V NDEF ANS F	FD PROV SECTION	IDED B N, BETW IPLETE [Y TEMP VEEN TH DRAINA	ERATURE C HE HEATING GE AND W	CONTROL G AND CO ALKING ⁻	L CONTR/ OOLING (TRAFFIC.	ACTOR, COILS, A	PROVI	DE PREI	MIUM EFFI	CIENCY	MOTOR.
 FILTE DIRE ACCE PROV AIR H 	R APD AT M CT DRIVE PLI SS SHALL BE VIDE HEAVY I IANDLER, AN	EAN LIFE. ENUM FAN. FAN S PROVIDED INTO T DUTY 18 GAUGE ST	PEED CONTROLLI HE FILTER SECTIO AINLESS STEEL D NG BOX, BLENDE	D WITH N, BLE RAIN P/ R, COOI	H A V NDEF ANS F LING	FD PROV SECTION FOR COM COIL, HE	(IDED B) N, BETW IPLETE I ATING (Y TEMP VEEN TH DRAINA	ERATURE C HE HEATING GE AND W	CONTROL G AND CO ALKING ⁻	L CONTR/ OOLING (TRAFFIC.	ACTOR, COILS, A	PROVI	DE PREI	MIUM EFFI	CIENCY	MOTOR.
 FILTE DIRE ACCE PROV AIR H 	R APD AT M CT DRIVE PLI SS SHALL BE VIDE HEAVY I IANDLER, AN	IEAN LIFE. ENUM FAN. FAN S E PROVIDED INTO T DUTY 18 GAUGE ST NGLED FILTER MIXI	PEED CONTROLLI HE FILTER SECTIO AINLESS STEEL D NG BOX, BLENDE	D WITH N, BLE RAIN P/ R, COOI	H A V NDEF ANS F LING	FD PROV SECTION FOR COM COIL, HE	(IDED B) N, BETW IPLETE I ATING (Y TEMP VEEN TH DRAINA	ERATURE C HE HEATING GE AND W	CONTROL G AND CO ALKING ⁻	L CONTR/ OOLING (TRAFFIC.	ACTOR, COILS, A	PROVI	DE PREI	MIUM EFFI	CIENCY	MOTOR.
 2. FILTE 3. DIRE 4. ACCE PROV 5. AIR H 6. PROV 	R APD AT M CT DRIVE PL SS SHALL BE (IDE HEAVY IANDLER, AN (IDE LIGHTS	EAN LIFE. ENUM FAN. FAN S PROVIDED INTO T DUTY 18 GAUGE ST NGLED FILTER MIXI IN ALL SECTIONS V	PEED CONTROLLI THE FILTER SECTIO TAINLESS STEEL D NG BOX, BLENDE VITH DOORS EXCI	D WITH N, BLEI RAIN P/ R, COOI PT IN E	H A V NDEF ANS F LING BLENI	FD PROV SECTION FOR COM COIL, HEA	(IDED B) N, BETW IPLETE I ATING (Y TEMP VEEN TH DRAINA	ERATURE C HE HEATING GE AND W	CONTROL G AND CO ALKING ⁻	L CONTR/ OOLING (TRAFFIC.	ACTOR, COILS, A	PROVI	DE PREI	MIUM EFFI	CIENCY	MOTOR.
 2. FILTE 3. DIRE 4. ACCE PROV 5. AIR H 6. PROV 	R APD AT M CT DRIVE PL SS SHALL BE (IDE HEAVY IANDLER, AN (IDE LIGHTS	IEAN LIFE. ENUM FAN. FAN S E PROVIDED INTO T DUTY 18 GAUGE ST NGLED FILTER MIXI	PEED CONTROLLI THE FILTER SECTIO TAINLESS STEEL D NG BOX, BLENDE VITH DOORS EXCI	D WITH N, BLEI RAIN P/ R, COOI PT IN E	H A V NDEF ANS F LING BLENI	FD PROV SECTION FOR COM COIL, HEA	(IDED B) N, BETW IPLETE I ATING (Y TEMP VEEN TH DRAINA	ERATURE C HE HEATING GE AND W	CONTROL G AND CO ALKING ⁻	L CONTR/ OOLING (TRAFFIC.	ACTOR, COILS, A	PROVI	DE PREI	MIUM EFFI	CIENCY	MOTOR.
 2. FILTE 3. DIRE 4. ACCE PROV 5. AIR F 6. PROV 	R APD AT M CT DRIVE PLI SS SHALL BE (IDE HEAVY IANDLER, AN (IDE LIGHTS)WER	EAN LIFE. ENUM FAN. FAN S PROVIDED INTO T DUTY 18 GAUGE ST NGLED FILTER MIXI IN ALL SECTIONS V	PEED CONTROLLI THE FILTER SECTION TAINLESS STEEL D NG BOX, BLENDE VITH DOORS EXCO IIT SCHE	D WITH N, BLEI RAIN P/ R, COOI PT IN E	H A V NDEF ANS F LING BLENI	FD PROV SECTION FOR COM COIL, HE, DER SECT	VIDED B' N, BETW IPLETE I ATING (TON.	Y TEMP VEEN TH DRAINA COIL, FA	ERATURE C HE HEATING GE AND W	CONTROL G AND CO ALKING ⁻	L CONTR/ OOLING (TRAFFIC. NUM.	ACTOR, COILS, A	PROVI	DE PREI	MIUM EFFI	CIENCY	MOTOR.
 2. FILTE 3. DIRE 4. ACCE PROV 5. AIR F 6. PROV BLC UNIT	R APD AT M CT DRIVE PL SS SHALL BE (IDE HEAVY IANDLER, AN (IDE LIGHTS	EAN LIFE. ENUM FAN. FAN S PROVIDED INTO T DUTY 18 GAUGE ST NGLED FILTER MIXI IN ALL SECTIONS V	PEED CONTROLLI THE FILTER SECTION TAINLESS STEEL D NG BOX, BLENDE VITH DOORS EXCO IIT SCHE	D WITH N, BLEI RAIN P/ R, COOI PT IN E	H A V NDEF ANS F LING BLENI	FD PROV SECTION FOR COM COIL, HEA	VIDED B' N, BETW IPLETE I ATING (TON.	Y TEMP VEEN TH DRAINA	ERATURE C HE HEATING GE AND W AN/DISCHA	CONTROL G AND CO ALKING ⁻ RGE PLEI	L CONTR/ OOLING (TRAFFIC. NUM.	ACTOR, I COILS, A	PROVI	DE PREI	MIUM EFFI	CIENCY I	MOTOR.
2. FILTE 3. DIRE 4. ACCE PROV 5. AIR H 6. PROV BLC UNIT NO.	R APD AT M CT DRIVE PLI SS SHALL BE (IDE HEAVY IANDLER, AN (IDE LIGHTS)WER MANU	IEAN LIFE. ENUM FAN. FAN S E PROVIDED INTO T DUTY 18 GAUGE ST NGLED FILTER MIXI IN ALL SECTIONS V COIL UN	PEED CONTROLLI THE FILTER SECTION TAINLESS STEEL D NG BOX, BLENDE VITH DOORS EXCO IIT SCHE	D WITH N, BLE RAIN P/ R, COOI PT IN E DU TOTAL	H A V NDEF ANS F LING BLENI	FD PROV SECTION FOR COM COIL, HEA DER SECT	VIDED B' N, BETW IPLETE I ATING (TON.	Y TEMP VEEN TH DRAINA COIL, FA	ERATURE C HE HEATING GE AND W AN/DISCHA MOTOR HP RI	ONTROL 5 AND CO ALKING ⁻ RGE PLEI	L CONTR/ OOLING (TRAFFIC. NUM.	ACTOR, COILS, A	PROVI ND FA	DE PREI		CIENCY I	MOTOR. VIDE 15
2. FILTE 3. DIRE 4. ACCE PROV 5. AIR F 5. PROV BLC UNIT NO. BCU-G1	R APD AT M CT DRIVE PLI SS SHALL BE VIDE HEAVY IANDLER, AN VIDE LIGHTS OWER MANU	EAN LIFE. ENUM FAN. FAN S PROVIDED INTO T DUTY 18 GAUGE ST NGLED FILTER MIXI IN ALL SECTIONS V COIL UN IF. MODEL N H3-BRB-3	PEED CONTROLLI THE FILTER SECTION TAINLESS STEEL D NG BOX, BLENDE WITH DOORS EXCO	D WITH N, BLEI RAIN P, R, COOI PT IN E DU TOTAL CFM	H A V NDEF ANS F LING BLENI	FD PROV SECTION FOR COM COIL, HE, DER SECT	VIDED B' N, BETW IPLETE I ATING (TION.	Y TEMP VEEN TH DRAINA COIL, FA	ERATURE C HE HEATING GE AND W AN/DISCHA MOTOR HP RI 2 1	ONTROL G AND CO ALKING ⁻ RGE PLEI PM V 760 48	L CONTR/ OOLING (TRAFFIC. NUM. CC /PH M 80/3 70	ACTOR, I COILS, A DOLING	PROVI ND FA COIL EA 82	DE PREI	MIUM EFFI IUM SECTIO	GIENCY I	MOTOR. VIDE 15
2. FILTE 3. DIRE 4. ACCE PROV 5. AIR H 6. PROV BLC UNIT NO. BCU-G1	R APD AT M CT DRIVE PLI SS SHALL BE (IDE HEAVY IANDLER, AN (IDE LIGHTS DWER MANU 11 AAON 17 AAON	EAN LIFE. ENUM FAN. FAN S PROVIDED INTO T DUTY 18 GAUGE ST NGLED FILTER MIXI IN ALL SECTIONS V COIL UN IF. MODEL N H3-BRB-3	PEED CONTROLLI THE FILTER SECTION TAINLESS STEEL D NG BOX, BLENDE VITH DOORS EXCO INT SCHE	D WITH N, BLE RAIN P, R, COOI PT IN E DU TOTAL CFM 1900	H A V NDEF ANS F LING BLENI	FD PROV SECTION FOR COM COIL, HE DER SECT MIN O, CFM 600	VIDED B' N, BETW IPLETE I ATING (TION.	Y TEMP VEEN TH DRAINA COIL, FA ESP	ERATURE C HE HEATING GE AND W AN/DISCHA MOTOR HP RI 2 1	ONTROL G AND CO ALKING ⁻ RGE PLEI PM V 760 48	L CONTR/ OOLING (TRAFFIC. NUM. CC /PH M 80/3 70	ACTOR, COILS, A DOLING IBH 0.4	PROVI ND FA COIL EA 82	DE PREI N/PLEN	MIUM EFFI IUM SECTIO	GIENCY I	GPM
2. FILTE 3. DIRE 4. ACCE PROV 5. AIR F 6. PROV BLCC UNIT NO. BCU-G1 REMAR	R APD AT M CT DRIVE PLI SS SHALL BE VIDE HEAVY IANDLER, AN VIDE LIGHTS OWER MANU 11 AAON 17 AAON (S:	EAN LIFE. ENUM FAN. FAN S PROVIDED INTO T DUTY 18 GAUGE ST NGLED FILTER MIXI IN ALL SECTIONS V COIL UN IF. MODEL N H3-BRB-3	PEED CONTROLLI THE FILTER SECTION TAINLESS STEEL D NG BOX, BLENDE VITH DOORS EXCO INTH DOORS E	D WITH N, BLEI RAIN P, R, COOI PT IN E DU TOTAL CFM 1900 1925	H A V NDEF ANS F LING BLENI	FD PROV SECTION FOR COM COIL, HEA DER SECT MIN 0, CFM 600 203	VIDED B' N, BETW IPLETE I ATING (TON.	Y TEMP VEEN TH DRAINA COIL, FA ESP 1.5 1.5	ERATURE C HE HEATING GE AND W AN/DISCHA MOTOR HP RI 2 11 2 11	ONTROL G AND CO ALKING T RGE PLEI	L CONTR/ OOLING (TRAFFIC. NUM. 2007 2007 2007 2007 2007 2007 2007 200	ACTOR, COILS, A DOLING IBH D.4 D.2	PROVI ND FA COIL EA 82 82	DE PREI N/PLEN AT 2.0/66.2 2.1/63.1	LAT 53.3/5 52.0/5	GIENCY I DN. PRC	MOTOR. VIDE 15 GPM 14.5
2. FILTE 3. DIRE 4. ACCE PROV 5. AIR H 6. PROV BLC UNIT NO. BCU-G1 REMAR 1. HEA ⁻	R APD AT M CT DRIVE PLI SS SHALL BE (IDE HEAVY IANDLER, AN (IDE LIGHTS DWER MANU 11 AAON 17 AAON (S: TING COIL CA	IEAN LIFE. ENUM FAN. FAN S E PROVIDED INTO T DUTY 18 GAUGE ST NGLED FILTER MIXI IN ALL SECTIONS V COIL UN IF. MODEL N H3-BRB-3 H3-BRB-3	PEED CONTROLLI THE FILTER SECTION TAINLESS STEEL D NG BOX, BLENDE WITH DOORS EXCONNIC INTRODORS EXCONNIC INTRODORS EXCONNIC INTRODORS EXCONNIC INTRODORS EXCONNIC INTRODORS EXCONNIC INTRODORS EXCONNIC INTRODORS EXCONNIC INTRODORS INTRODO	D WITH N, BLEI RAIN P/ R, COOI PT IN E DU TOTAL CFM 1900 1925 R/25%	H A V NDEF ANS F LING BLENI DLE	FD PROV SECTION FOR COM COIL, HE, DER SECT MIN O, CFM 600 203 PYLENE C	VIDED B' N, BETW IPLETE I ATING (TON.	Y TEMP VEEN TH DRAINA COIL, FA ESP 1.5 1.5	ERATURE C HE HEATING GE AND W AN/DISCHA MOTOR HP RI 2 11 2 11	ONTROL G AND CO ALKING T RGE PLEI	L CONTR/ OOLING (TRAFFIC. NUM. 2007 2007 2007 2007 2007 2007 2007 200	ACTOR, COILS, A DOLING IBH D.4 D.2	PROVI ND FA COIL EA 82 82	DE PREI N/PLEN AT 2.0/66.2 2.1/63.1	LAT 53.3/5 52.0/5	GIENCY I DN. PRC	MOTOR. VIDE 15 GPM 14.5
 2. FILTE 3. DIRE 4. ACCE PROV 5. AIR F 6. PROV BLC UNIT NO. BCU-G1 BCU-G1 REMAR 1. HEA^T 2. PROV 	R APD AT M CT DRIVE PLI SS SHALL BE (IDE HEAVY I IANDLER, AN (IDE LIGHTS DWER MANU 11 AAON 17 AAON (S: TING COIL CA (IDE FACTOF	IEAN LIFE. ENUM FAN. FAN S E PROVIDED INTO T DUTY 18 GAUGE ST NGLED FILTER MIXI IN ALL SECTIONS V COIL UN IF. MODEL N H3-BRB-3 H3-BRB-3	PEED CONTROLLI THE FILTER SECTION TAINLESS STEEL D NG BOX, BLENDE VITH DOORS EXCONNING INGLE POINT PO	D WITH N, BLEI RAIN P/ R, COOI PT IN E DU TOTAL CFM 1900 1925 R/25% WER C	H A V NDEF ANS F LING BLENI DLE	FD PROV SECTION FOR COM COIL, HE, DER SECT MIN 0, CFM 600 203 PYLENE C ECTION.	VIDED B' N, BETW IPLETE I ATING C ION.	Y TEMP VEEN TH DRAINA COIL, FA ESP 1.5 1.5 , COOLI	MOTOR HP R 2 11 2 11 NG COIL CA	ONTROL G AND CO ALKING ⁻ RGE PLEI PM V, 760 48 760 48	L CONTR/ OOLING (TRAFFIC. NUM. 2007 2007 2007 2007 2007 2007 2007 200	ACTOR, I COILS, A DOLING IBH D.4 D.2 ASED ON	PROVI ND FA COIL EA 82 82	DE PREI N/PLEN AT 2.0/66.2 2.1/63.1	LAT 53.3/5 52.0/5	GIENCY I DN. PRC	MOTOR. VIDE 15 GPM 14.5

	FAN	JULED	ULL												
	FAN	MANUF.	MODEL NO.	ТҮРЕ	LOCATION	CFM	S.P.	RPM	TIP	мото	R	ELEC.		SONES	N
	NO.								SPEED (FPM)	MHP	BHP	VOLTS	PH		(L
	EF-F106	GREENHECK	SQ-120-VG	DD, INLINE	F106 JAN.	1225	0.4	1332	4578	1/2	0.2	120	1	6.3	7
~	₽₽₽	GREENHECK	~G-070-VG~~~	PRY	RADE	450~~	hàn	1390	2957	-1415-	A92~	120	1	~~~~~	-5
•	EF-G207	GREENHECK	G-300-C-VGD	PRV	ROOF	12400	0.65	860	6867	5	4.31	480	3	25	4

REMARKS: 1. PROVIDE ROOF CURB, BACKDRAFT DAMPER.

2. PROVIDE ECM MOTOR, INTEGRAL ELECTRICAL DISCONNECT, FAN SPEED CONTROLLER.

<u>∕2∖</u>

3. PROVIDE ANTI-VIBRATION HANGING KIT AND FLEX DUCT CONNECTORS. 4. PROVIDE ECM MOTOR, INTEGRAL VFD, BACNET CAPABILITIES.

NO.			NO.	SIZE	SIZE	AREA		FPM	IN. V
IH-G119	AHU-13	GREENHECK	FGI	48/96	24/64	10.67	6,200	581	0.04
RH-F101	LOBBY	GREENHECK	FGR	43/48	32/32	7.11	3,400	478	0.05
RH-F102-1	GYM	GREENHECK	FGR	43/48	32/32	7.11	3,400	478	0.05
RH-F102-2	GYM	GREENHECK	FGR	43/48	32/32	7.11	3,400	478	0.05
RH-D118	STORAGE D118	GREENHECK	FGR	26/36	16/16	1.78	1,620	911	0.12
REMARKS:		·		·	÷	·	·		

LOUVER SCHEDULE

LVR	MANUFACTURER	MODEL	SIZE	FREE	CFM	VEL.	PD	REMARKS
NO.		NO.	WXHXD	AREA S.F.		FPM	IN. WG.	
LVR-E110	GREENHECK	ESD-635	72X36X6	10.14	11,000	1085	0.16	ALL
LVR-F106	GREENHECK	ESD-635	28X24X6	1.82	1,225	672	0.06	ALL
LVR-G207	GREENHECK	ESD-635	144X84X6	53.27	28,200	529	0.04	ALL
REMARKS:								

1. COLOR BY ARCHITECT.

2. PROVIDE WITH BIRDSCREEN

REGISTER GRILLE & DIFFUSER SCHEDULE

SYMBOL	MANUF.	CONSTR	MODEL	MAX	OVERALL	THROAT	NC	THROW	TOTAL PD	FRAME	PATTERNS	REM
		MAT"L	NO.	CFM	SIZE	SIZE			(IN.W.G.)			
D1	KRUEGER	S	1400	230	24/24	8"	26	12	0.08	LAY-IN	4-WAY	
D2	KRUEGER	S	1400	430	24/24	10"	26	17	0.08	LAY-IN	4-WAY	
G1	KRUEGER	A	EGC5	620	24/12	22/10	15		0.03	LAY-IN	1/2" GRID	
G2	KRUEGER	A	EGC5	1400	24/24	22/22	15		0.03	LAY-IN	1/2" GRID	
G3	KRUEGER	A	EGC5	250	10/10	8/8	21		0.07	SURFACE	1/2" GRID	
G4	KRUEGER	S	80H	200	10/10	8/8	20	20	0.07	SURFACE	1-WAY, 22.25°DEF.	1
G5	KRUEGER	S	S480H	4200	34/34	32/32	32		0.05	SURFACE	1-WAY, 0° DEF.	1
G6	KRUEGER	S	S480H	8500	74/32	72/30	34		0.05	SURFACE	1-WAY,0° DEF.	1
G7	KRUEGER	S	S80H	4000	44/32	42/30	32		0.05	SURFACE	1-WAY	1
G8	KRUEGER	S	480	310	14/12	12/10	16	25	0.04	DUCT	1-WAY, 22.25°DEF.	
G9	KRUEGER	S	S480H	6200	40/42	38/40	34		0.05	SURFACE	1-WAY,0° DEF.	1
G10	KRUEGER	S	480H	11000	74/42	72/40	35		0.05	SURFACE	1-WAY,0° DEF.	1
G11	KRUEGER	S	480	935	20/16	18/14	27	59	0.07	DUCT	1-WAY	1
G12	KRUEGER	S	S480H	2370	50/16	48/14	28		0.04	SURFACE	1-WAY,0° DEF.	1
G13	KRUEGER	S	S480H	2370	38/22	36/20	26		0.04	SURFACE	1-WAY,0° DEF.	1
R1	KRUEGER	A	DMGDR	405	16/12	14/10	20	20	0.06	DUCT	DD, 22.5° DEF.	2

R - REGISTER

G - GRILLE D - DIFFUSER SD - SINGLE DEFLECTION DD - DOUBLE DEFLECTION A - ALUMINUM CONSTRUCTION. S - STEEL CONSTRUCTION.

GENERAL NOTES:

1. THROWS ARE BASED ON TERMINAL VELOCITIES AT 50 FPM. 2. NC VALUES ARE BASED UPON A 10dB ROOM ATTENUATION.

3. SEE SPECIFICATIONS FOR OPPOSED BLADE DAMPER REQUIREMENTS.

REMARKS:

1. COLOR BY ARCHITECT.

2. PROVIDE WITH SCOOP DAMPER.

HEATING COIL SCHEDULE

		•••==								
COIL	SIZE	CFM	EAT	APD	MBH	GPM	WPD	EWT	LWT	REMAR
NO.				(IN.W.G.)						
HC-D200	35X30	5,175	20	0.57	360.6	25	3.4	180	150	ALL
HC-E103	31X33	5,825	20	0.67	401	28	10.1	180	150	ALL
REMARKS:										

1. COIL CAPACITIES ARE BASED ON 60% WATER/40% PROPYLENE GLYCOL.

		<u> </u>																															
		\																															
		\																															
		\																															
		\																															
		/			ΗΕΔΤΙ	WHEEL			OUTSIDE AIR		ROOM AIR		DISCHARGE AIR TEN	/P				G CAPACITY				C		DE FILTER			FXH	AUST SIDE FILTE	-R			OPER.	REMARKS
		(\sim	<u></u>					OUTSIDE AIN				DISCHARGE AIR TEI	VII			COOLIN																REIMARKS
FAN HP	VOLT/PH	RPM	МСА	MOCP	НР	VOLT/PI	H MCA	MOCP	SUMMER DB/WB	WINTER DB/WB	SUMMER DB/WB	WINTER DB/WB	SUMMER DB/WB	T. EFF. %	WINTER DB/WB	T. EFF. %	MBH	EWT/LWT	EAT	LAT	GPM V	/PD N	MERV	AREA(SF)	MAX FV	APD TH	ICK MEF	RV AREA(SF)) MAX FV	APD	THICK	WT(LBS).	
5(X2)	480/3	1617	1 6.8	21.8	1/2	115/1	5.7	15	95/74	-20/-20	74.0/62.0	68.0/47.0	77.9/64.4	76%	46.7/35.0	81%	348	45/55	77.9/64.4	55.0/53.7	72 9	.16 1	13		513	0.83 2"	8		513	0.6	2"	3820	ALL
			hum	mm	<i>,</i>												1				•				•			L					
CONTRACT	OR. WHEEL	VFD TO B	BE INTEGRA	AL TO UNIT	Г.																												

١P	ACITY							HEATI	NG COIL	CAPACI	ITY						FILTER					OPER.	REMARKS
	LAT	FV	APD	EWT	LWT	GPM	WPD	MBH	EAT	LAT	FV	APD	EWT	LWT	GPM	WPD	TYPE	AREA(SF)	MAX FV	APD	THICK	WT(LBS)	
	54.0/53.6	522	0.92	44	56	112.9	11.8	919.4	43.1	100.4	541	0.21	180	150	64.1	8.8	MERV13	78.6	350	0.55	2"	5750	ALL
	53.7/53.2	457	0.69	44	56	28.9	11.7	180.3	50.7	92.2	487	0.18	180	150	12.6	3.8	MERV8	18.9	350	0.54	2"	2350	ALL
	53.8/53.5	498	0.89	44	56	67.8	16.1	656.6	36.5	111.1	523	0.37	180	150	45.4	9	MERV8	34.1	350	0.55	2"	3370	ALL
	53.7/53.1	467	0.71	44	56	41.6	11.9	291.8	53.6	99.1	498	0.24	180	150	20	1.8	MERV8	28.3	350	0.54	2"	3025	ALL

REMARKS

REMARKS

IDE 15 INCH (MIN.) DOORS AND 18 INCH (MIN.) SPACE BETWEEN COILS.

					HEATING CC	IL					OPER. WEIGHT	REMARKS
	GPM	WPD	EWT	LWT	MBH	EAT	GPM	EWT	LWT	WPD	(LBS.)	
3.3	14.5	25	44	56	143.3	46.1	10	180	150	14.9	700	ALL
9	11	16.2	44	56	108.7	61.4	7.5	180	150	2.2	670	ALL
	GLYCOL.											

AN S	CHED	OULE												AIF	R COC	DLED (HIL	LER S	SCH	EDU	LE										
N M	ANUF.	MODEL NO.	TYPE LO	OCATION C	FM S.P.	RPM	TIP	MOTOR	ELEC		SONES	WEIGHT	REMARKS	UNIT	MANUF.	MODEL NO.	MBH	AMB	EV	AP. BUND	LE		ELEC.			ST	EPS	EER	SOUND	OPER.	REMARKS
D .							SPEED (FPM					(LBS)		NO.			CAPAC		MP EV	VT LWT	WP	D GPM	VOLTS	6 PH	MCA N		ILOAD		(dB)	WEIGHT	
-F106 GI	REENHECK	SQ-120-VG	DD, INLINE F	106 JAN. 1	225 0.4	1332	4578	1/2 0	.2 120	1	6.3	70	2,3	CH-1	DAIKIN	AGZ241E	2042.4	80	32	23	10.9	480.8	480	3	532 6	600 4		10.35	94	10,320	ALL
-6112-61	REENHECK		PBY AND			1390	2957		Q2 12Q		33	59~~~		REMA	RKS:					I					II	I		I			
		G-300-C-VGD			2400 0.65		6867		.31 480	3	25	470	1,4	1 . CAP	ACITY IS BA	SED ON 60% V	VATER/40)% PROPYLE	NE GLYC	OL.											
MARKS:														2. EER	IS BASED O	N ARI STANDA		DITIONS.													
PROVIDE F	ROOF CURB,	BACKDRAFT DAM	MPER.											3 3. SOL	ND RATING	BASED ON AR	I-370 OVE	ERALL "A" WI	GHTED		WER L	EVEL.									
PROVIDE E	CM MOTOR	R, INTEGRAL ELEC	TRICAL DISCONNI	ECT, FAN SPE	ED CONTRO	LLER.								3 4. UNIT	SHALL BE I	OUNTED ON	NEOPREN	NE OR SPRI	G TYPE V	/IBRATIO	I ISOLA	TORS AS	DESIGNE	ED BY TH	HE MANUF	FACTURE	ER.				
PROVIDE A	ANTI-VIBRATI	ION HANGING K	IT AND FLEX DUCT	T CONNECTO	RS.									5. PRC	VIDE 65K SC	CR RATING.															
PROVIDE E	CM MOTOR	R, INTEGRAL VFD,	BACNET CAPABIL	LITIES.										3																	
uuu	mm	unu	······	mmm	mm	·····	mmm	www	mm	mm	mm	mm	·····	ر																	
NTAK	(E AN	D RELIE	F HOOD	SCHE	DULE	1 								DU	CTLES	SS SPLI	T SY	STEM	SCH	EDU	LE										
NIT	SERVES	5	MANUFACTUR	ER MODE	L HOO)	THROAT	THROAT	CFM	THROAT	PD		REMARKS	UNIT	SERV	ES MAI	NUF. N	MODEL NO.		MAT	CHED	CFM		ELEC	C.			CAF	PACITY	OPER.	REMARKS
D.				NO.	SIZE		SIZE	AREA		FPM	IN. 1	NG.		NO.						UNIT				VOL	TS PH	MCA	A MO	СР МВ	н	WT. (LBS)	
-G119	AHU-13	3	GREENHECK	FGI	48/9	5	24/64	10.67	6,200	581	0.04	15	1	DSS-G2	204 ELEC	. G204 DAII	KIN F	FTXS36LVJUF	KS36LVJU	J CU-G	204	770/635	5/519/47	3 208	1	19.5	5 20	36		40	1
I-F101	LOBBY		GREENHECK	FGR	43/4	3	32/32	7.11	3,400	478	0.05	5	2	REMA	RKS:		· · · ·					•		•	·						
I-F102-1	GYM		GREENHECK	FGR	43/4	3	32/32	7.11	3,400	478	0.05	5	2	1. WAI	L MOUNT D	UCTLESS SPLIT	SYSTEM (COOLING UN	IT, WIRED	THERMO	STAT.										
I-F102-2	GYM		GREENHECK	FGR	43/4	3	32/32	7.11	3,400	478	0.05	5	2	2. EXT	END CONDER	ISATE OUT WA	ALL ONTO	ADJACENT I	OOF.												
I-D118	STORAG	GE D118	GREENHECK	FGR	26/3	5	16/16	1.78	1,620	911	0.12	2	2,3	3. IND	OOR UNIT IS	POWERED TH	RU THE O	UTDOOR UN	T.												
MARKS:							-		-				-																		
		,	ENDED HEIGHT NE NDARD HEIGHT N	,	,									CO	NDEN	SING	JNIT	SCHE	DUL	.E											
		,		,	,			, ANTI CONDE	INSATE COA		00.			UNIT	MANU	F. MODE	EL NO.	MA	TCHED	CAPACIT	Y C	CAPACITY	AMB.AI	R ELECT	RICAL				MIN	OPER.	REMARKS
PROVIDE		JF CUKB. CONFIE	RM ROOF PITCH P		JERING.									NO.				UN	т	(NOM.TO	N) N	ИВН	TEMP.	VOLTS	S PH	MCA	FLA	MOCP	EER	WT.(LBS)	
														CU-G2	04 DAIKIN	RKS36	ILVJU	DS	-G204	36	3	36	95	208	1	19.5		20	8.37	180	1,2
OUV	ER SC	HEDUL	Ε											REMA	RKS:			I			I						1				
′R	MANU	UFACTURER	MODEL	SIZE		REE	CFM	 I	VEL.	PD		REM	/ARKS	140	DEG. AMBIEI	T OPERATION	I W/ MAN	NUFACTURE	S RECOM	MENDED	ACCESS	ORIES, RE	F. LINE SE	ETS, 5 YE	AR COMP	RESSOR	WARRAN	NTY.			
D.			NO.	wхн		REA S.F.			FPM		WG.			2. INVI	RTER COMP	RESSOR															
′R-E110	GREEI	NHECK	ESD-635	72X36		.0.14	11,0	00	1085	0.1	6	ALL		3. IND	OOR UNIT IS	POWERED TH	RU THE O	UTDOOR UN	T.												
′R-F106	GREEI	NHECK	ESD-635	28X24	X6 :	82	1,22		672	0.0	6	ALL		L																	
							,																								

FIXTURE SYMBOL	TYPE	MANUF	MODEL NO.	TRIM	SUPPLIES	WASTE	REMARKS
WC-1	WATER CLOSET	AMERICAN	2234.001	SLOAN 8111			CHURCH 9500SSCT SEAT
	FLUSH VALVE FLOOR			BATTERY OPERATOR			
	MOUNTED ELONG						
WC-2	WATER CLOSET	AMERICAN	3043.001	SLOAN 8111			CHURCH 9500SSCT SEAT
	FLUSH VALVE	STANDARD		BATTERY OPERATOR			
	FLOOR MOUNTED						
	ELONG-HANDI						
WC-3	WATER CLOSET	AMERICAN	2634.101	SLOAN			CHURCH 9500SSCT SEAT
	FLUSH VALVE WALL	STANDARD		152-1.28 ES-S			JOSAM SERIES 12000 CARRIER
	HUNG ELONG			SOLENOID OPERATOR			BACK SPUD
UR-1	URINAL WASHOUT	AMERICAN	6590.001	SLOAN 8180			JOSAM SERIES 17000 CARRIER
	WALL HUNG	STANDARD		BATTERY OPERATOR			
UR-2	URINAL WASHOUT	AMERICAN	6515.001	SLOAN			JOSAM SERIES 17000 CARRIER
	WALL HUNG	STANDARD		195-1-ES-S			BACK SPUD
1.4			0055.040	SOLENOID OPERATOR			
L-1		AMERICAN	0355.012	6114.111.002	BRASSCRAFT	GRID DRAIN	17 GA. C.P. P-TRAP
	WALL HUNG	STANDARD		W/1.5 GPM	KTSCR19C		JOSAM SERIES 17000 CARRIER
				FLOW RESTRICTOR			MTD TOP OF RIM 34" AFF W/TRUBRO WASTE & WATER PIPE
							PROTECTOR, OFFSET WASTE ARM
L-2	LAVATORY	AMERICAN	0355.012	CHICAGO	BRASSCRAFT	GRID DRAIN	17 GA. C.P. P-TRAP
L-2	WALL HUNG	STANDARD	0333.012	895-317-E3	KTSCR19C		JOSAM SERIES 17000 CARRIER
	HANDI	OTANDARD		000-017-20	KIOOKIJO		W/TRUBRO WASTE & WATER PIPE
							PROTECTOR, OFFSET WASTE ARM
MSK	MOP SINK	ZURN	Z1996-24-	Z843M1-RC-CS			CW HB MTD 5'-0" AFF
	FLOOR MOUNTED		SDL-HH-MH	W/VACUUM BREAKER			
SK-1	SINK-STAINLESS	BY FSC			BRASSCRAFT		17 GA. C.P. P-TRAP
	STEEL DOUBLE				KTSCR19C		
	COMPARTMENT						
SK-2	SINK-STAINLESS	ELKAY	PSR-3319	CHICAGO	BRASSCRAFT	LK-35 STRAINER	17 GA. C.P. P-TRAP
	STEEL DOUBLE			786-GN8A-317-E3	KTSCR19C	LK-53 CONT	
	COMPARTMENT			GN8AJKCP SPOUT		WASTE	
SK-3	UTILITY SINK	FIAT	L1	CHICAGO	BRASSCRAFT		17 GA. C.P. P-TRAP
	WALL HUNG			891-CP	KTSCR19C		WRIST BLADE HANDLES
SH-1	SHOWER			POWERS		2" FLOOR DRAIN	ALL METAL TRIM
				E710-K-1			FIXED SHOWER HEAD
SH-2	SHOWER			POWERS		2" FLOOR DRAIN	ALL METAL TRIM, 2 FIXED
	HANDI			E710-(2)K-(2)1-			SHOWER HEADS
				0-0-Y-0			
EWC-1	ELECTRIC WATER	ELKAY	LZS8WSSP		BRASSCRAFT		17 GA. C.P. P-TRAP
	COOLER WALL MTD				KTSCR19C		
	W/BOTTLE FILL						
EWC-2	ELECTRIC WATER	ELKAY	LZSTL8WSSF	1	BRASSCRAFT		17 GA. C.P. P-TRAP
	COOLER WALL MTD				KTSCR19C		LKAPREZL APRON
	W/BOTTLE FILL						

REMARKS:

1. HANDICAPPED FLUSH VALVES SHALL BE ADA COMPLIANT.

2. FLUSH VALVES SHALL HAVE A VANDAL RESISTANT STOP CAP.

3. FLUSH VALVE ESCUTCHEONS SHALL BE CHROME PLATED WITH HEAVY WALL THICKNESS AND SET SCREW.

4. PROVIDE & INSTALL (1) SLOAN TRANSFORMER MODEL MCR-426 PER 8 FIXTURES IN PLUMBING CHASE. PROVIDE & INSTALL INTERCONNECTING LOW VOLTAGE WIRING AND CONNECTIONS TO SENSORS.

CABIN	IET & UNI	T HE	ATE	ER SCI	HEDUL	E										
UNIT NO.	MANUFACTURER	UNIT SIZE	TYPE	INTAKE LOCATION	DISCHARGE LOCATION	CFM	FAN M RPM	IOTOR(S) FAN HP-1	VOLTS	SPH	HEATIN MBH			Y GPM	WPD	REMARKS
CUH-E107	BEACON/MORRIS	04	SRWI	FT	FB	430	1050	1/10	115	1	26.1	200	170	1.8	5'	1,2
CUH-E108	BEACON/MORRIS	06	С	C-1140	C-1140	620	1050	1/10	115	1	61.0	200	170	4.1	5'	1,2
CUH-E115	BEACON/MORRIS	06	С	C-1140	C-1140	620	1050	1/10	115	1	61.0	200	170	4.1	5'	1,2
CUH-F100A	BEACON/MORRIS	06	F1	FT	FB	620	1050	1/10	115	1	61.0	200	170	4.1	5'	1,2
CUH-F100B	BEACON/MORRIS	06	F1	FT	FB	620	1050	1/10	115	1	61.0	200	170	4.1	5'	1,2
UH-G207	BEACON/MORRIS	HB-36	HP	R	F	550	1550	16 WATT	115	1	22.8	200	170	1.6	5'	1,3

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 75% WATER/ 25% PROPYLENE GLYCOL.

2. PROVIDE TAMPER RESISTANT FASTENERS FOR ACCESS DOOR. 3. HANG UNIT FROM STRUCTURE WITH NEOPRENE ISOLATORS.

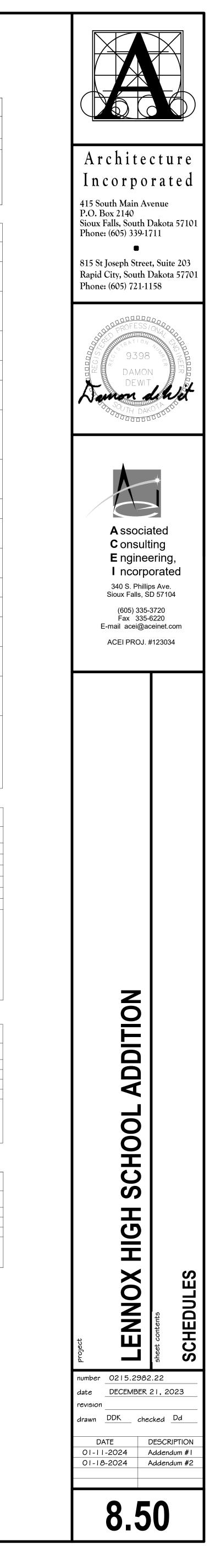
PUMP SCHEDULE

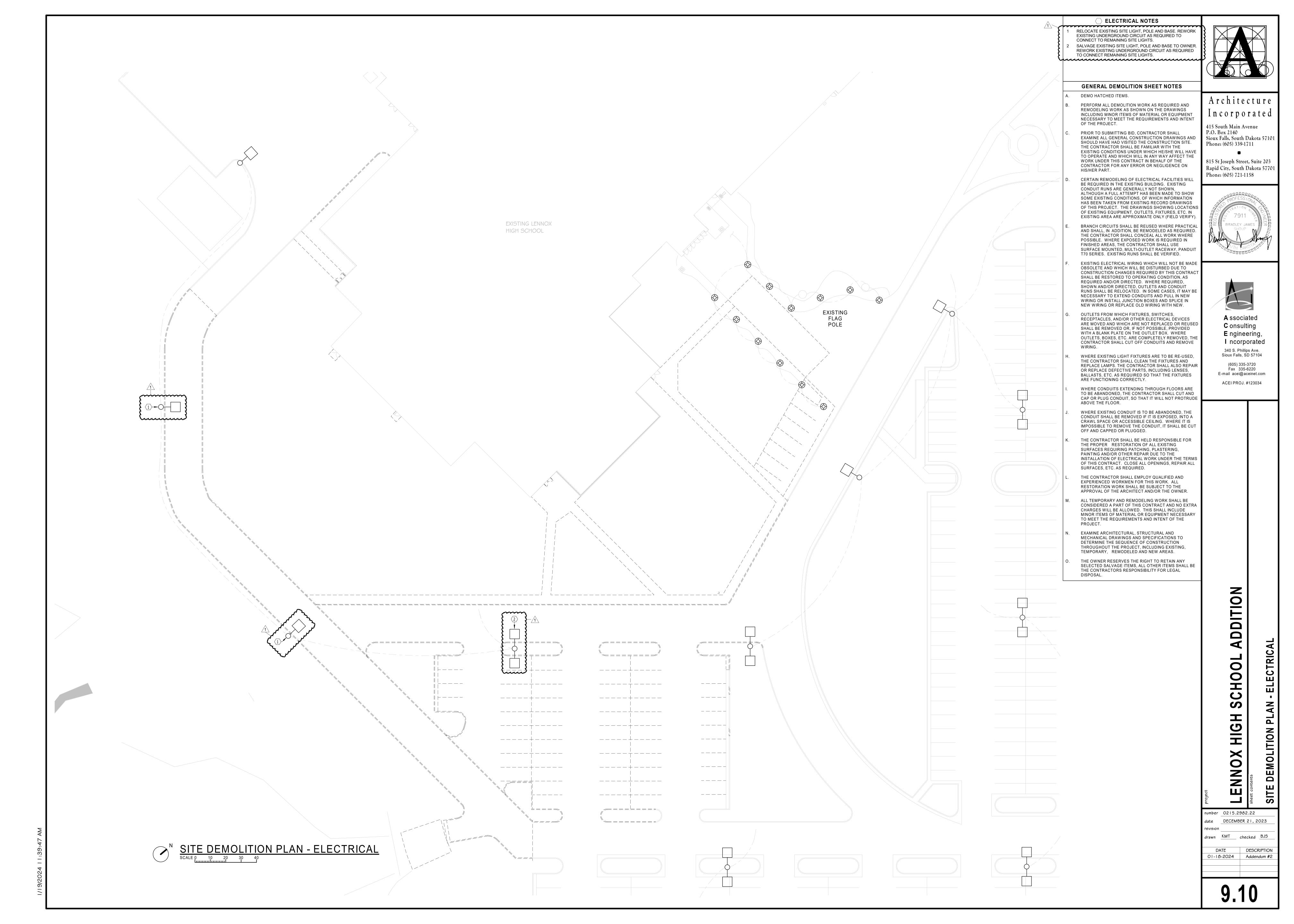
	PUMP	MANUFACTURER	MODEL	DESCRIPTION	STYLE	SIZE	GPM	HEAD	MOTOR			ELEC.		SUCTION	DISCH	REMARKS
	NO.		NO.					(FT)	MHP	BHP	RPM	VOLTS	PH	SIZE	SIZE	
	P-1	BELL & GOSSETT	PL-30	110 HW RECIRC	IN-LINE	3/4	10	15	1/12		2650	115	1	3/4	3/4	1
	P-2	WEIL	2426	SEWAGE	SUBMERS	2"	25	34	1 1/2		1750	480	3		2	
_	\sim	****	\sim	SEWAGE	SUBMERS	\sim	25	34~~	$\gamma \gamma \beta \gamma \gamma$	\sim	1750	480	\sim	$\sim\sim\sim\sim\sim$	hardrow	\sim
_ ۲	г ч Р-3 г г	PWEIL	2426	SEWAGE	SUDIVIERS	Z	25	34	1 1/2		1750	400	3		2	
ک ر ک	P-4	BELL & GOSSETT	PL-36	INFLOOR HEAT	IN-LINE	2 1 1/4"	8	20	1/6		3300	115	3 1	 1 1/4"	2 1 1/4"	1
	REMAR	BELL & GOSSETT KS:		_	_	2 1 1/4"		• •	1/6				3 1	 1 1/4"	1 1/4"	1
		BELL & GOSSETT KS:		_	_	2 1 1/4"		• •	1/6				1 1	 1 1/4"	1 1/4"	

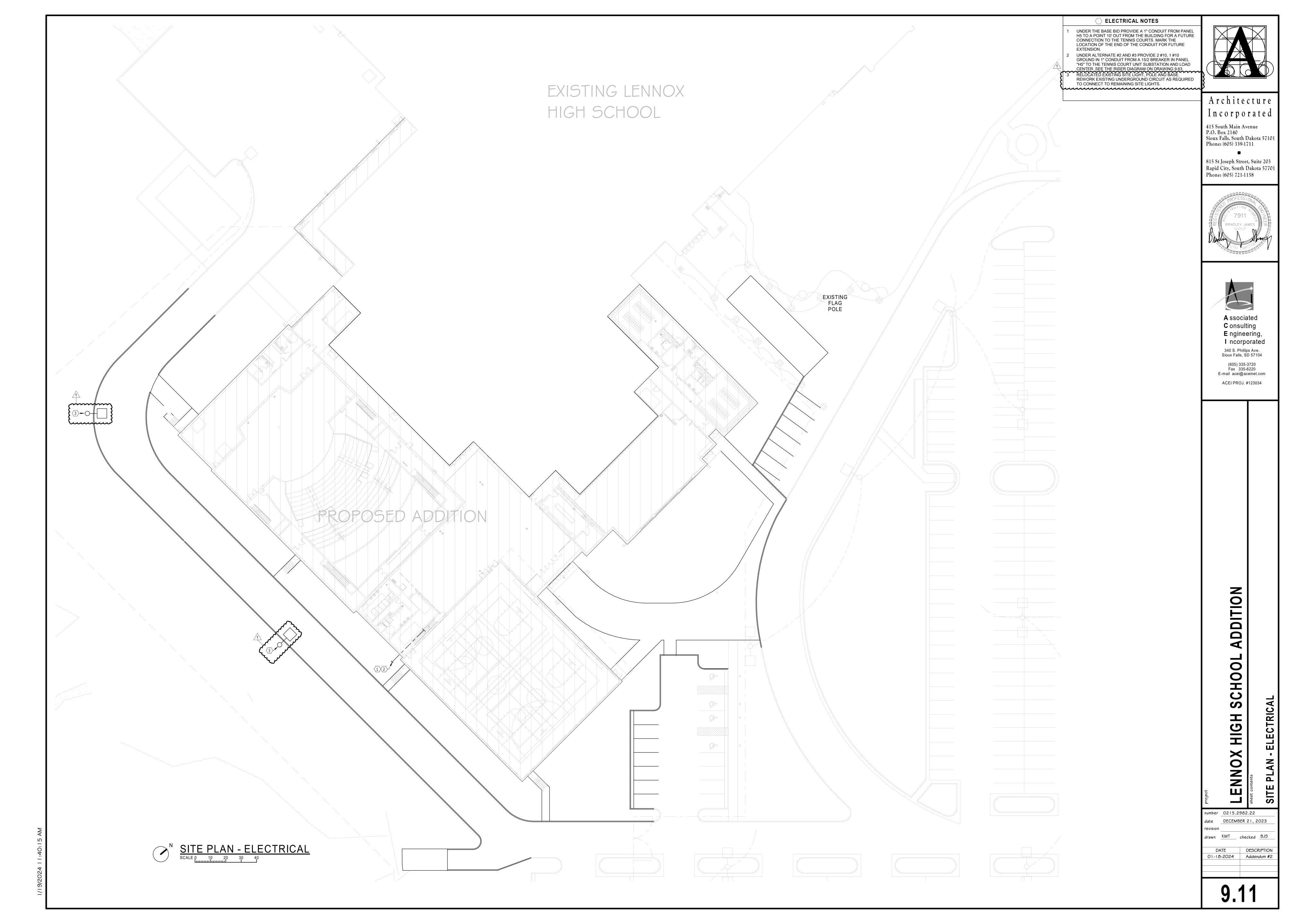
WATER HEATER SCHEDULE UNIT MANUFACTURER MODEL AMPS INPUT ELEC. REMARKS WATTS VOLTS PH NO. NO. WHTR-1 RHEEM MR30245 4500 208 1 1.2 WHTR-2 CHRONOMITE CM-30L/208 6240 208 1,2

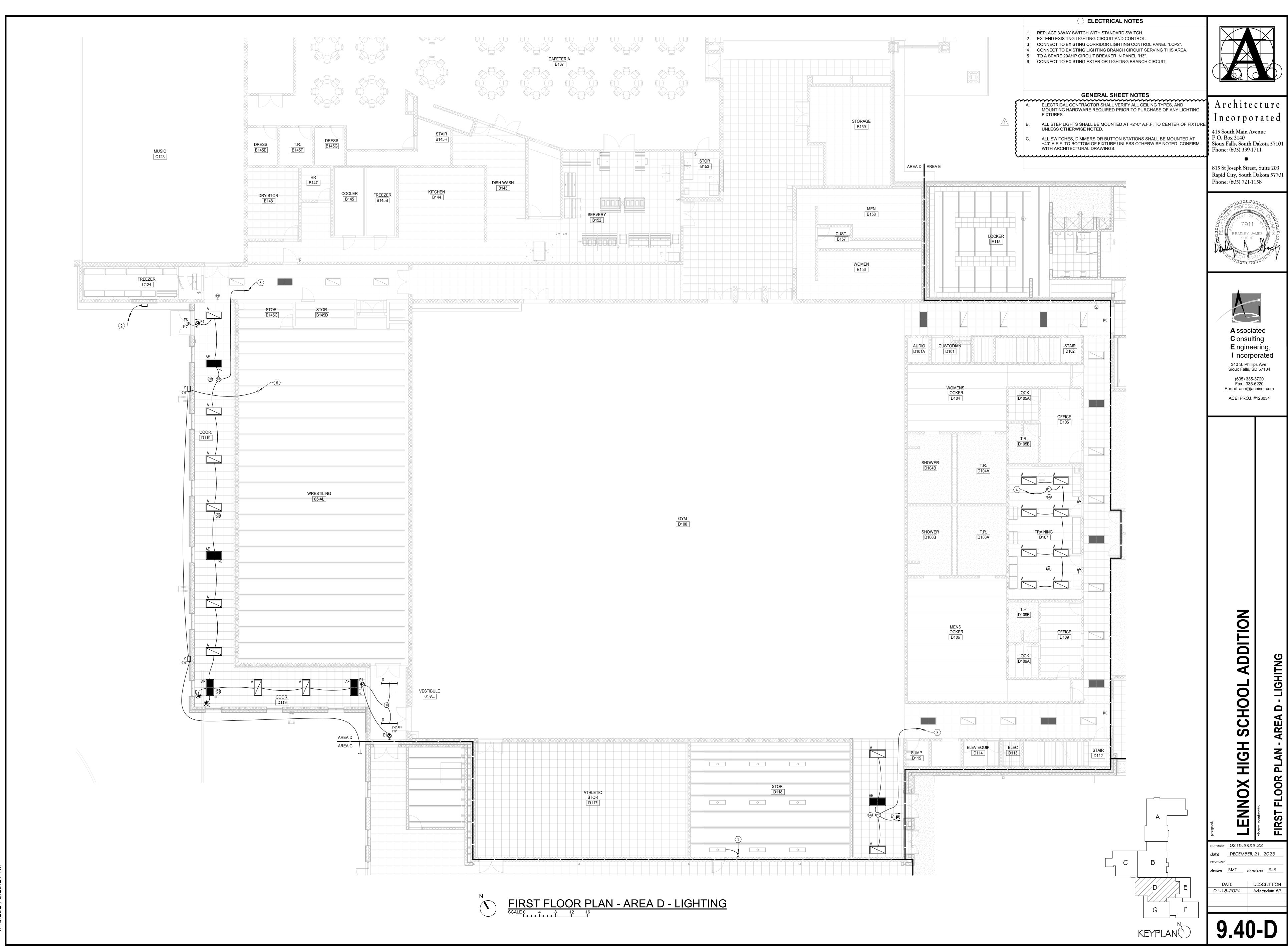
REMARKS:

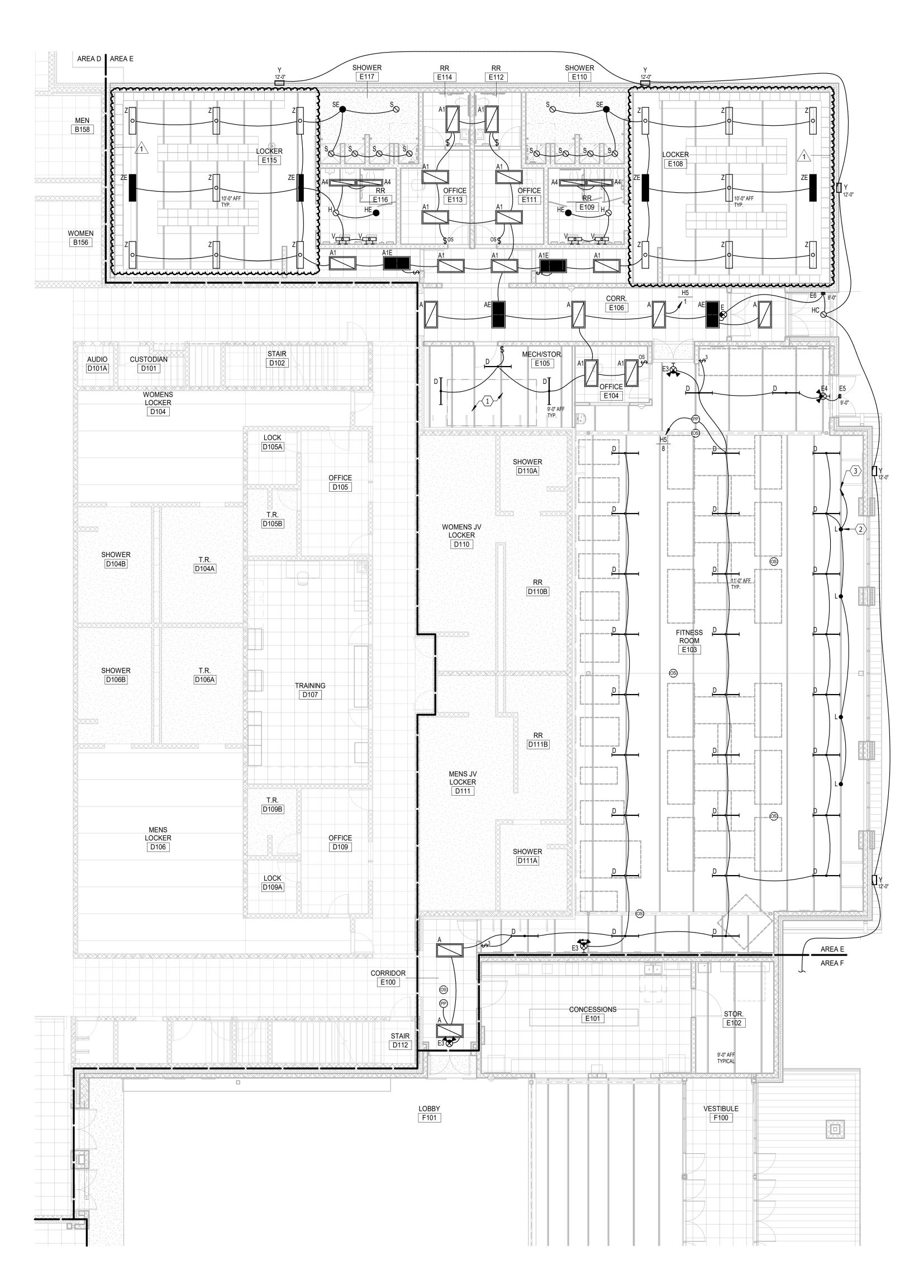
1. ASME T & P RELIEF VALVE. 2. AMTROL THERMAL EXPANSION TANK MODEL ST-12 OR EQUAL.









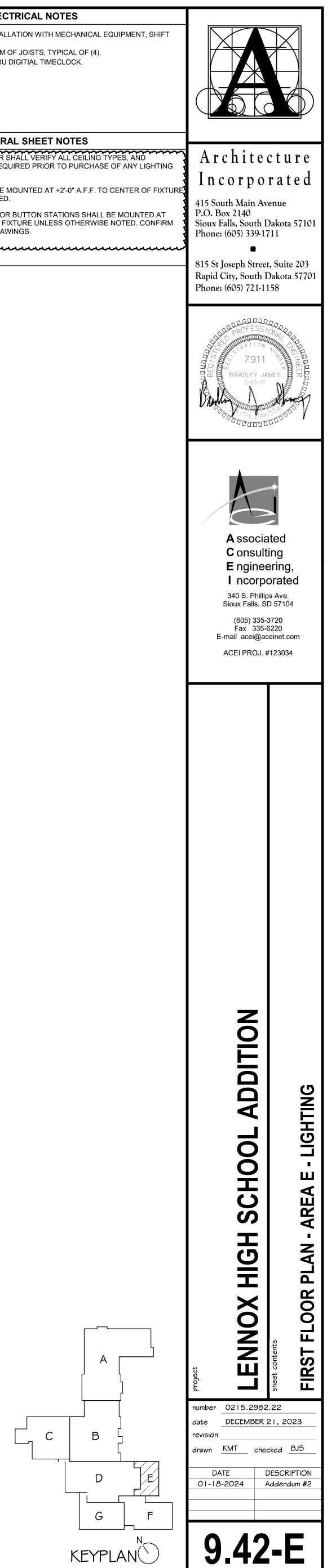


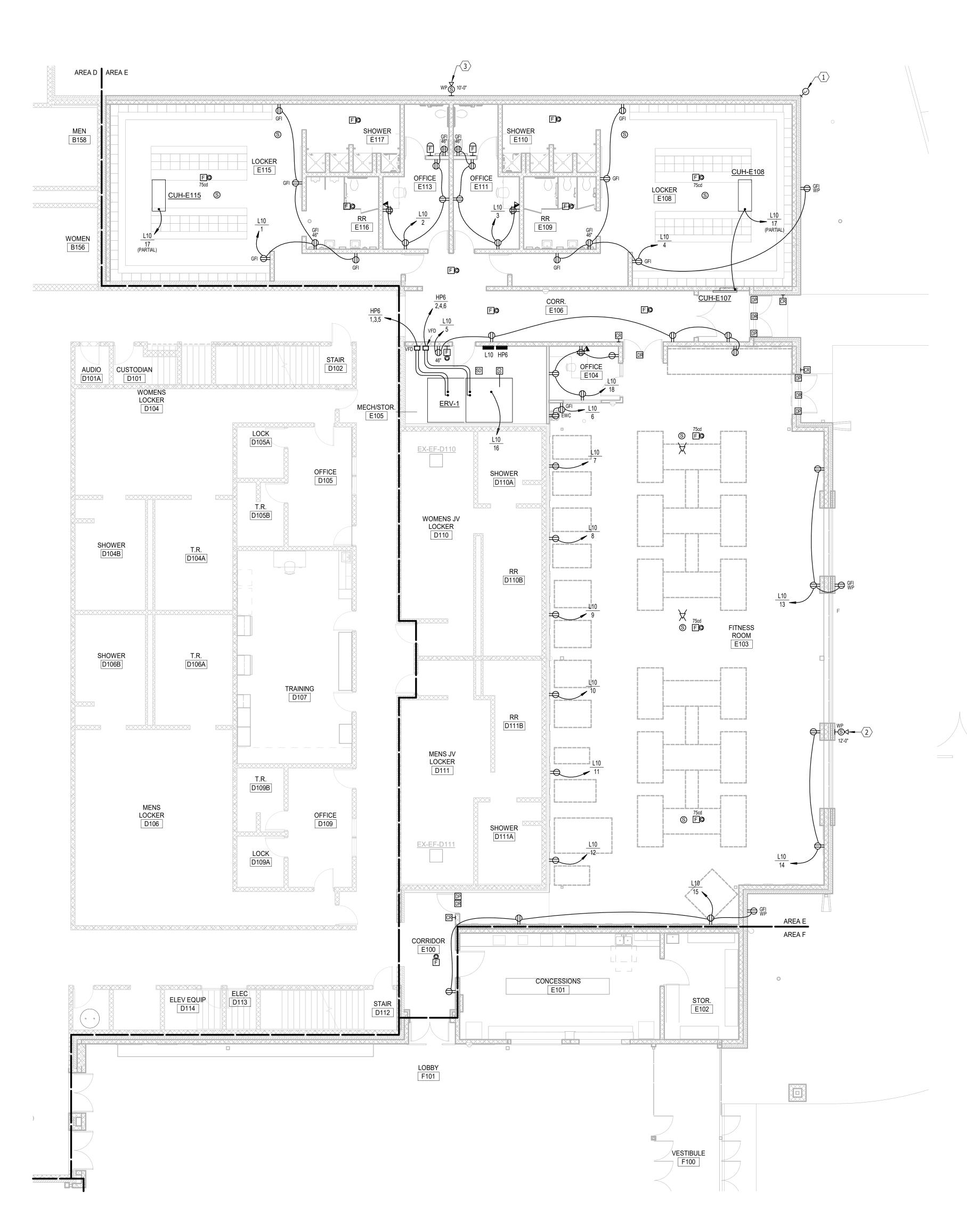


N

FIRST FLOOR PLAN - AREA E - LIGHTING

	1	COORDINATE LIGHTING INSTALLATION WITH MECHANICAL E AS NECESSARY.
	2 3	MOUNT FIXTURES TO BOTTOM OF JOISTS, TYPICAL OF (4). CONTROL FLOODLIGHTS THRU DIGITIAL TIMECLOCK.
		GENERAL SHEET NOTES
ſ	A.	ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING T MOUNTING HARDWARE REQUIRED PRIOR TO PURCHASE FIXTURES.
	В.	ALL STEP LIGHTS SHALL BE MOUNTED AT +2'-0" A.F.F. TO UNLESS OTHERWISE NOTED.
	C.	ALL SWITCHES, DIMMERS OR BUTTON STATIONS SHALL +40" A.F.F. TO BOTTOM OF FIXTURE UNLESS OTHERWISE WITH ARCHITECTURAL DRAWINGS.
<u>۲</u>		

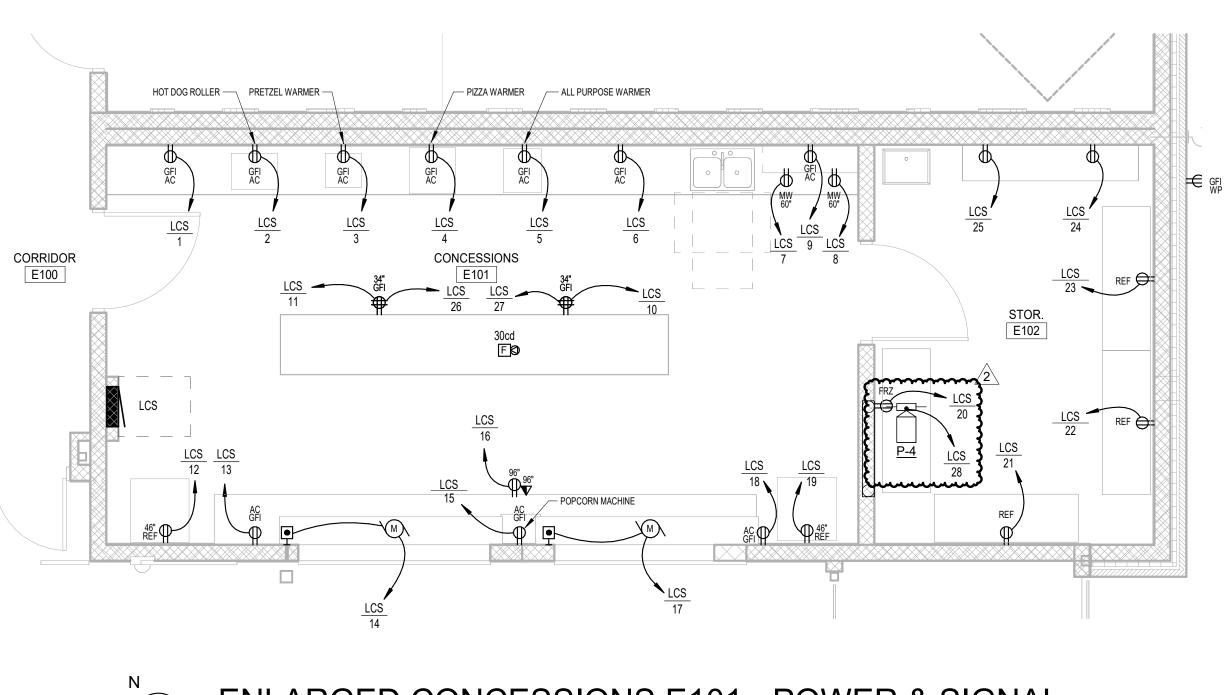




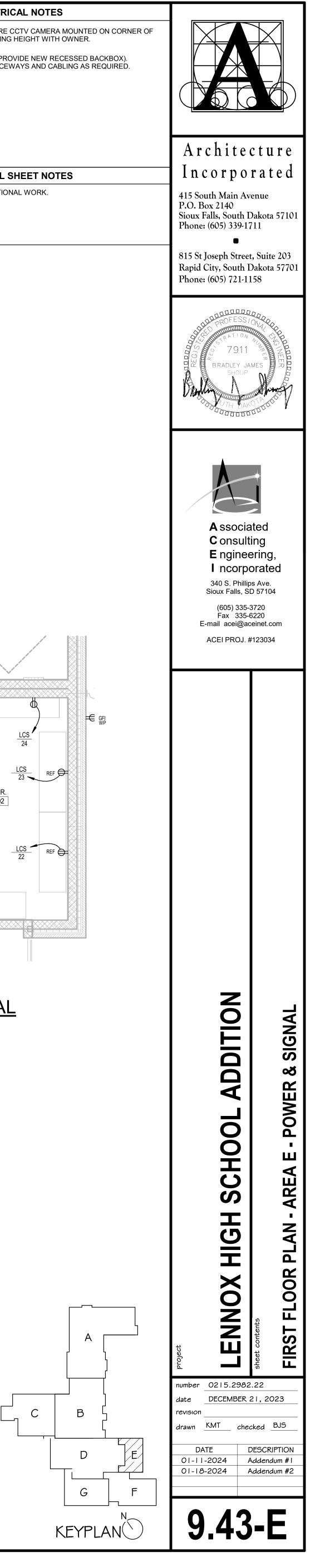
FIRST FLOOR PLAN - AREA E - POWER & SIGNAL

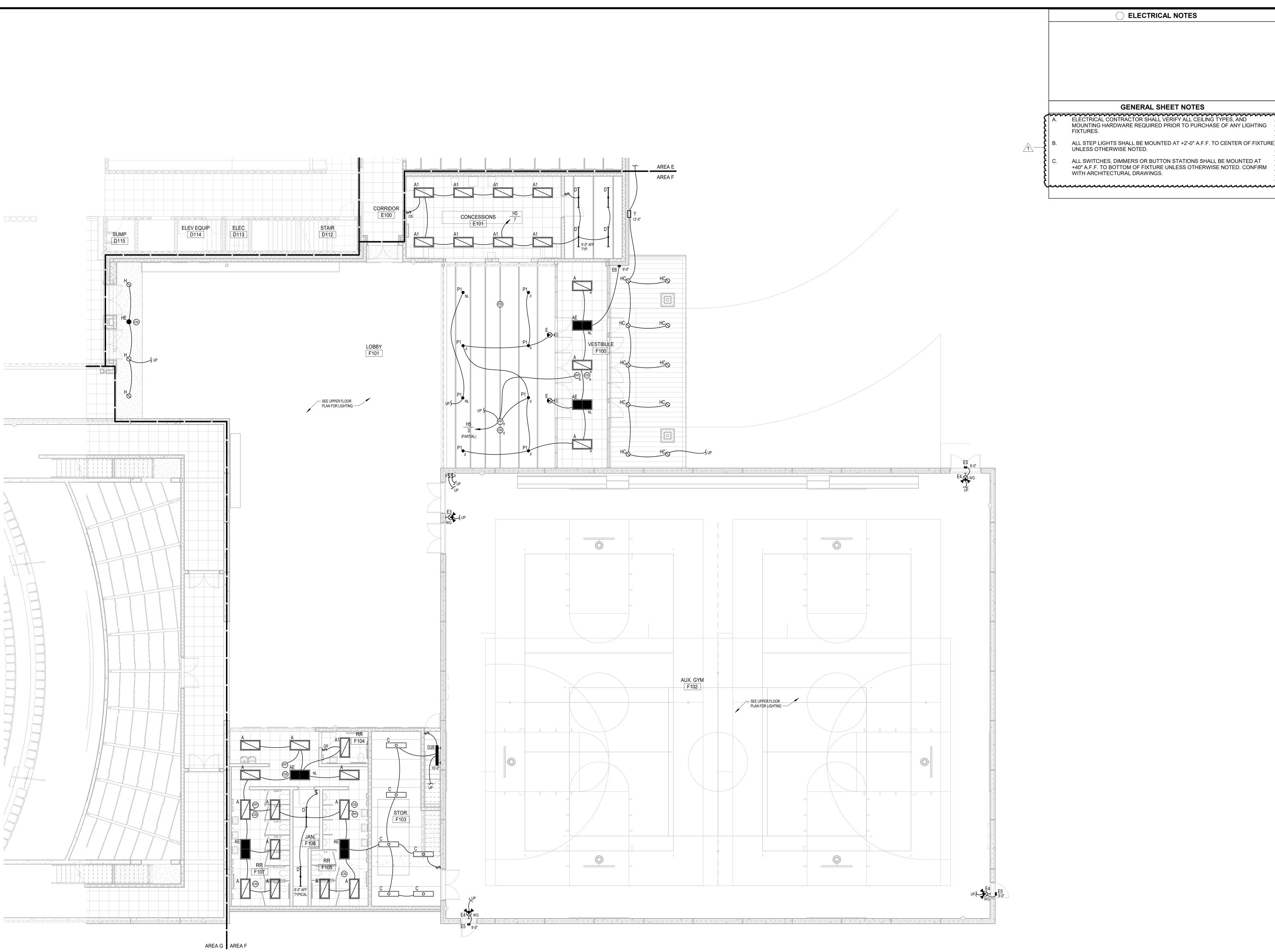
 (\mathbf{N})

PROVIDE PROVISION FOR FUTURE CCTV CAMERA MOUNTED ON CORNER OF BUILDING. FIELD VERIFY MOUNTING HEIGHT WITH OWNER. EXISTING RELOCATED DEVICE. EXISTING RELOCATED DEVICE (PROVIDE NEW RECESSED BACKBOX). EXTEND/REROUTE EXISTING RACEWAYS AND CABLING AS REQUIRED. GENERAL SHEET NOTES A. SEE AV DRAWINGS FOR ADDITIONAL WORK.

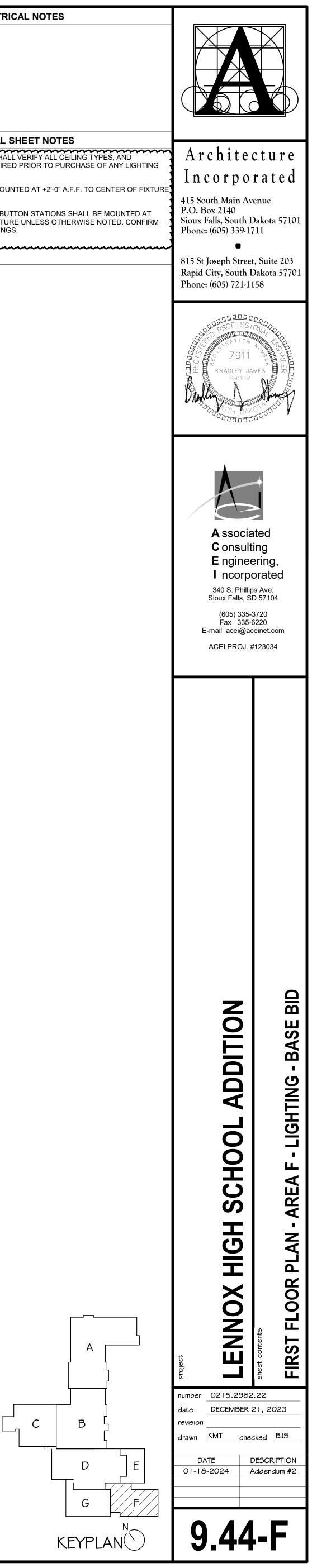


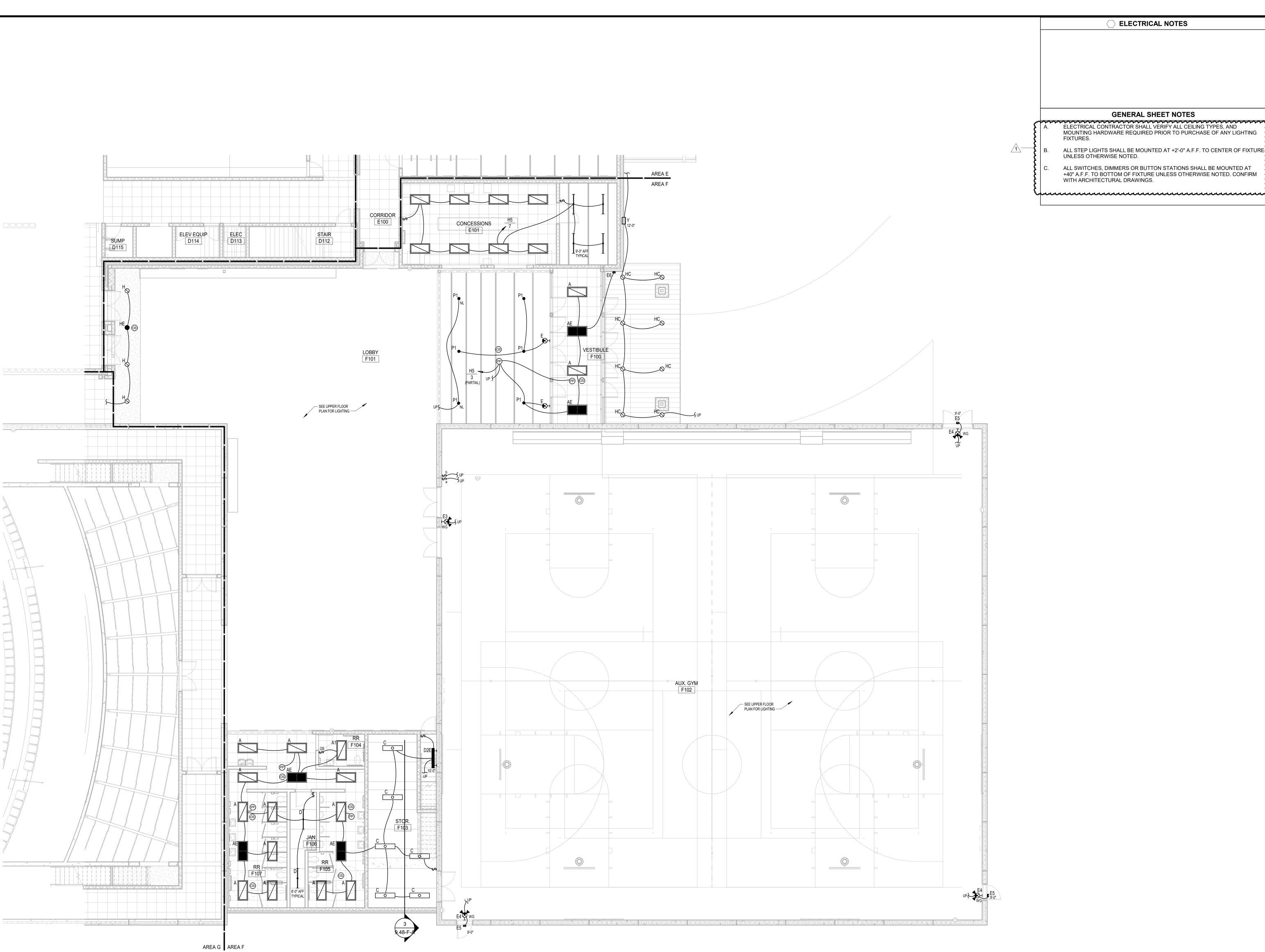




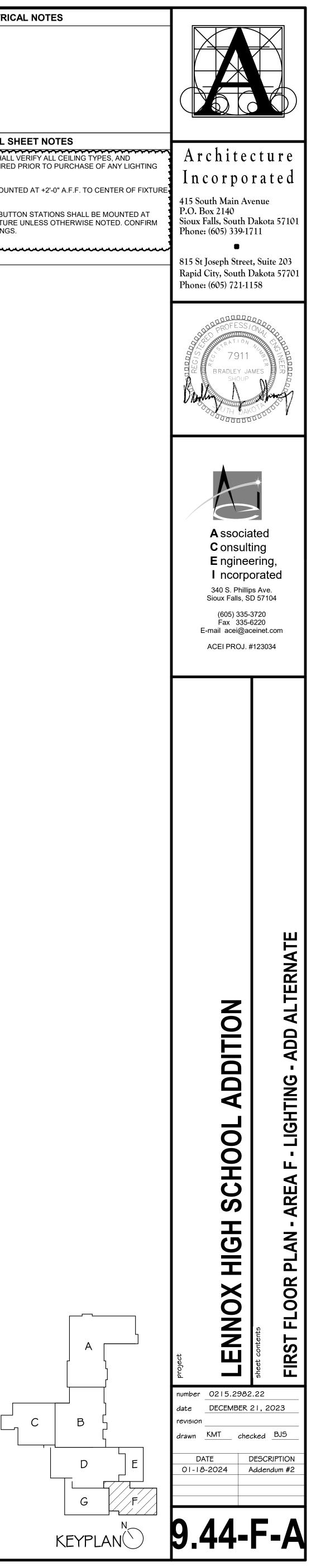


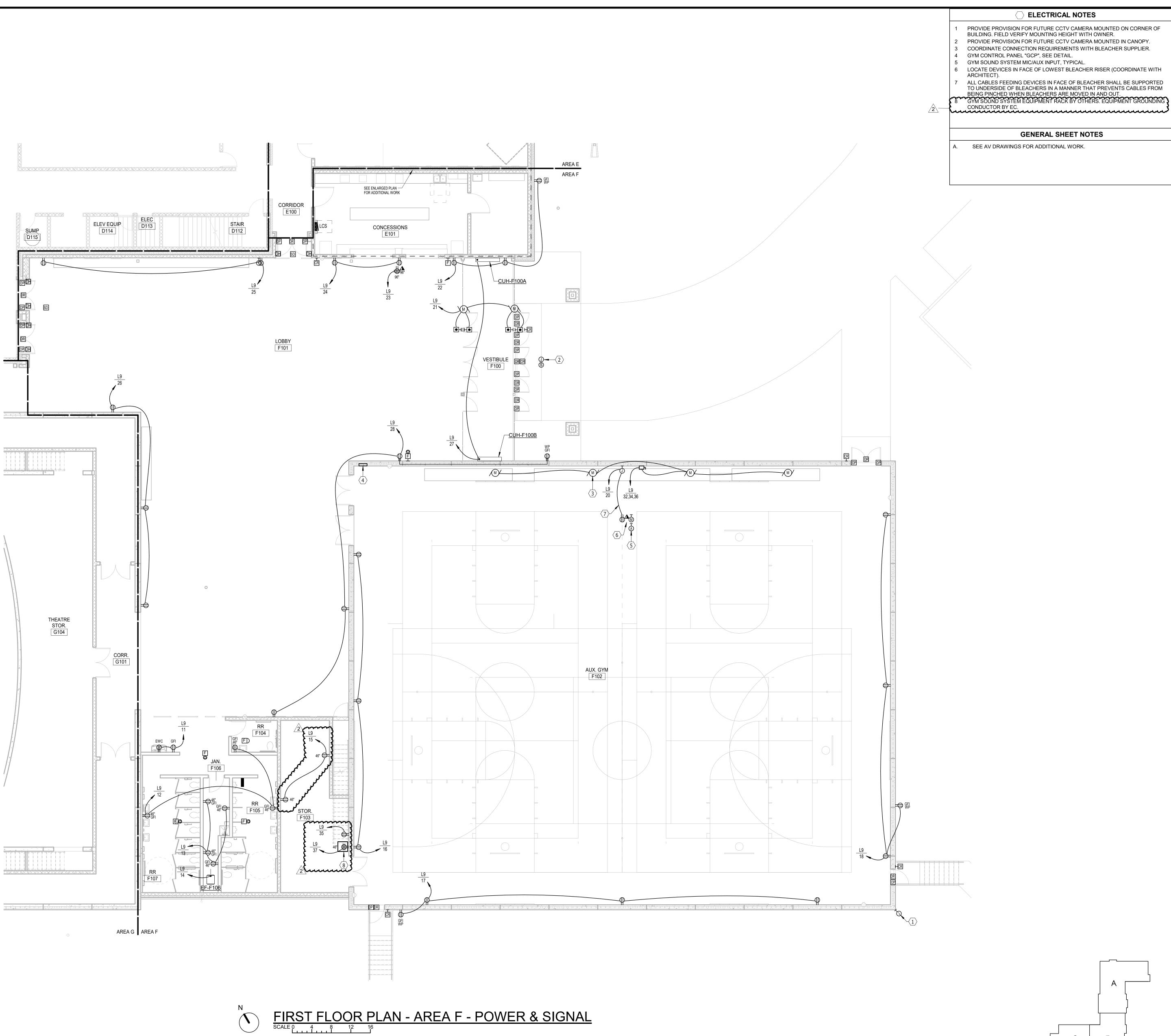
FIRST FLOOR PLAN - AREA F - LIGHTING Ν (\mathbf{N})

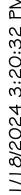


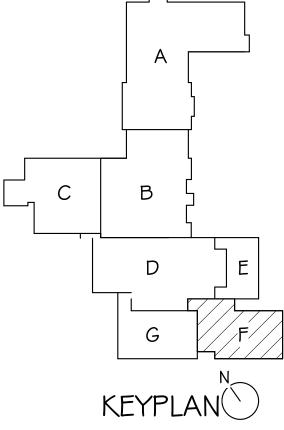


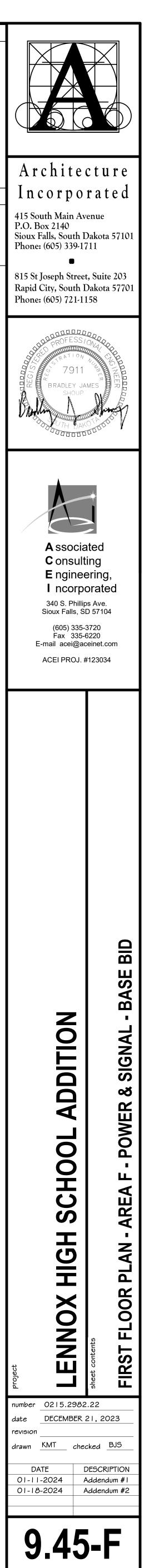
FIRST FLOOR PLAN - AREA F - LIGHTING ADD ALTERNATE Ν (\mathbf{N})

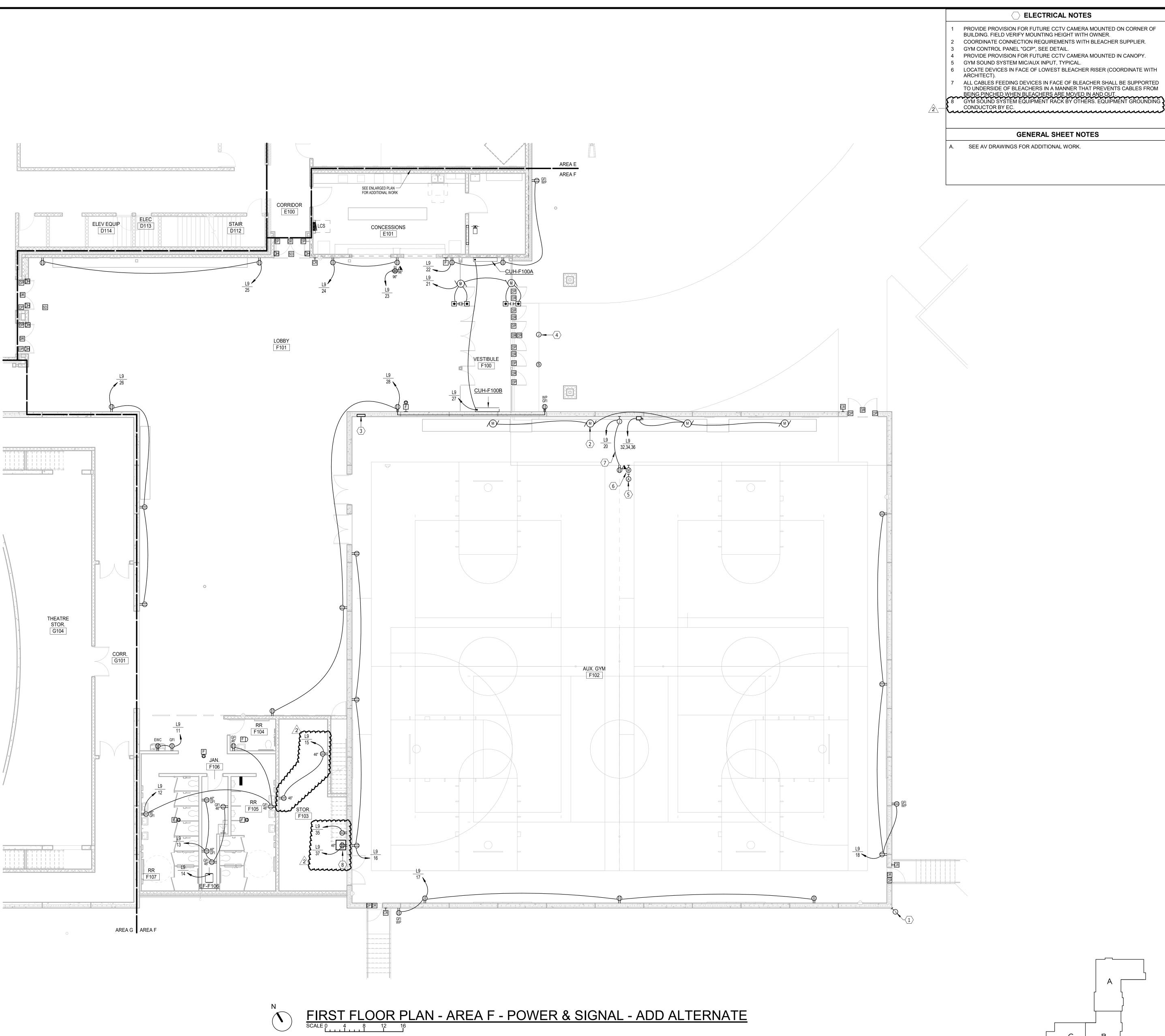


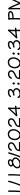


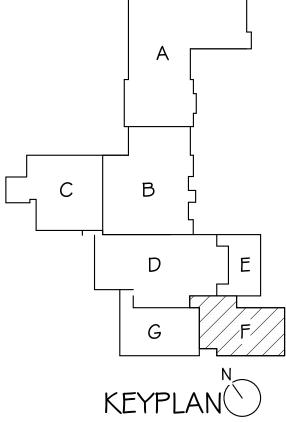


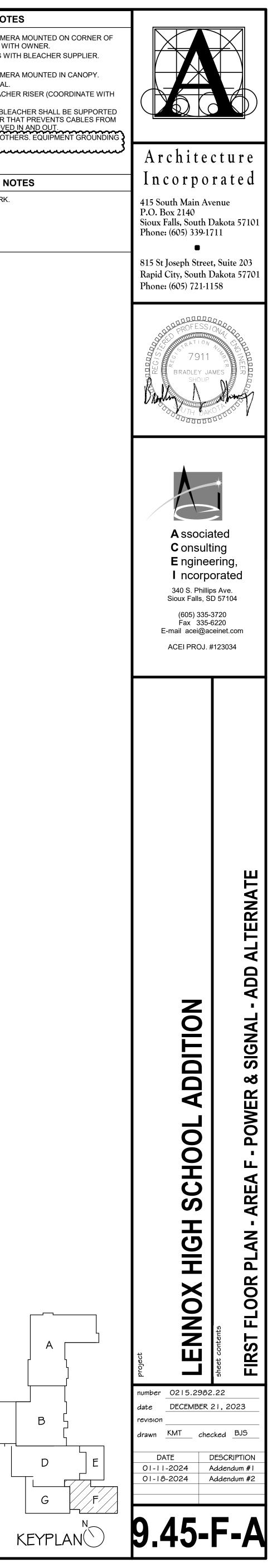


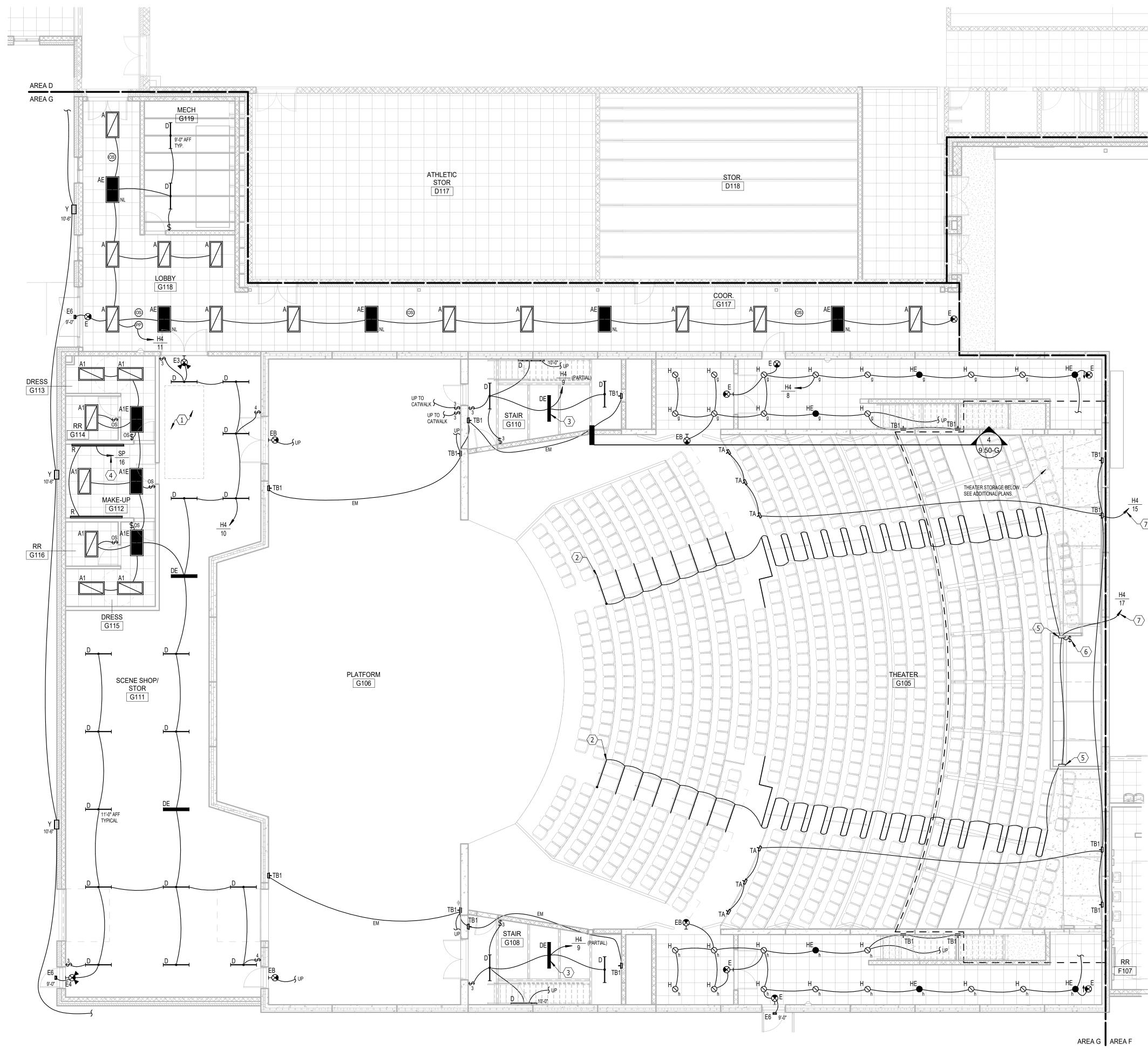


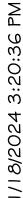




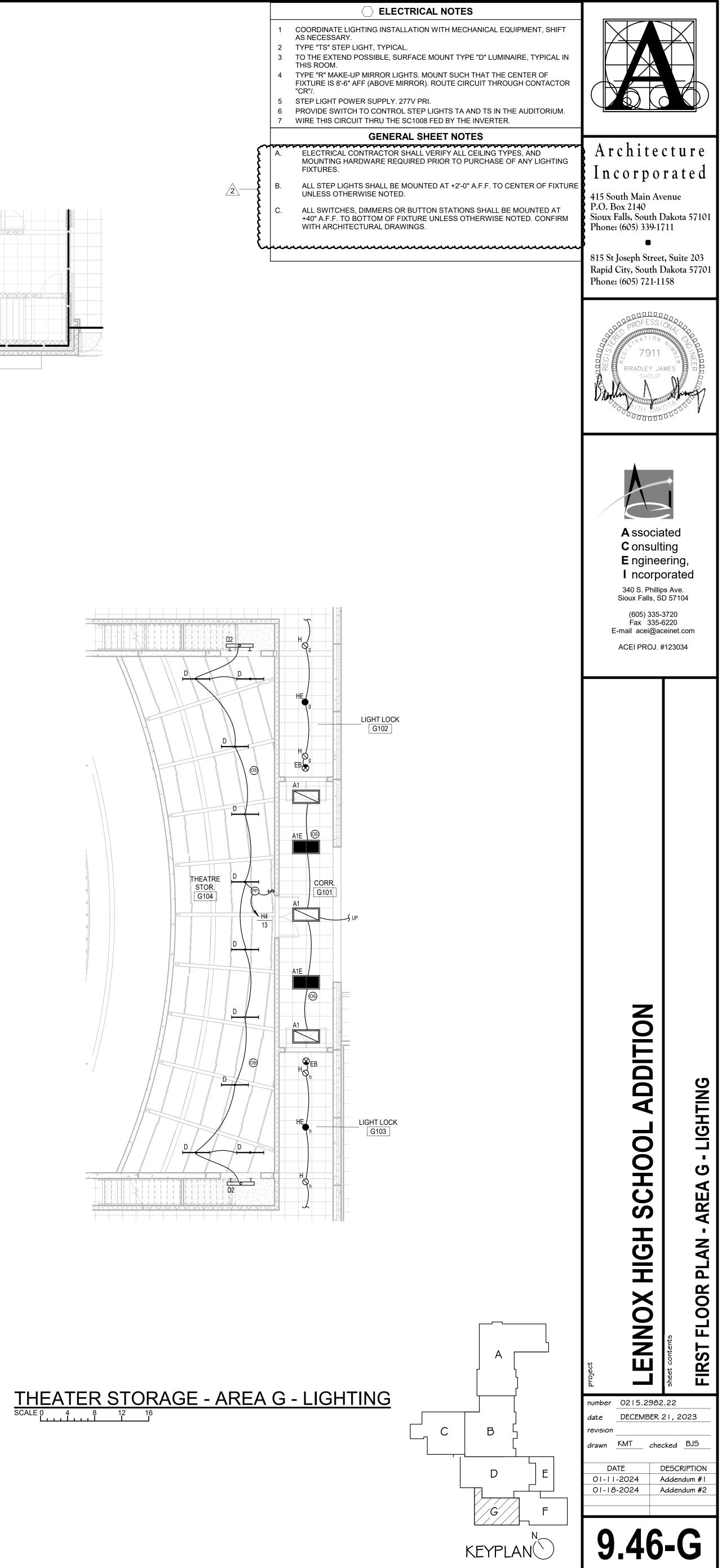






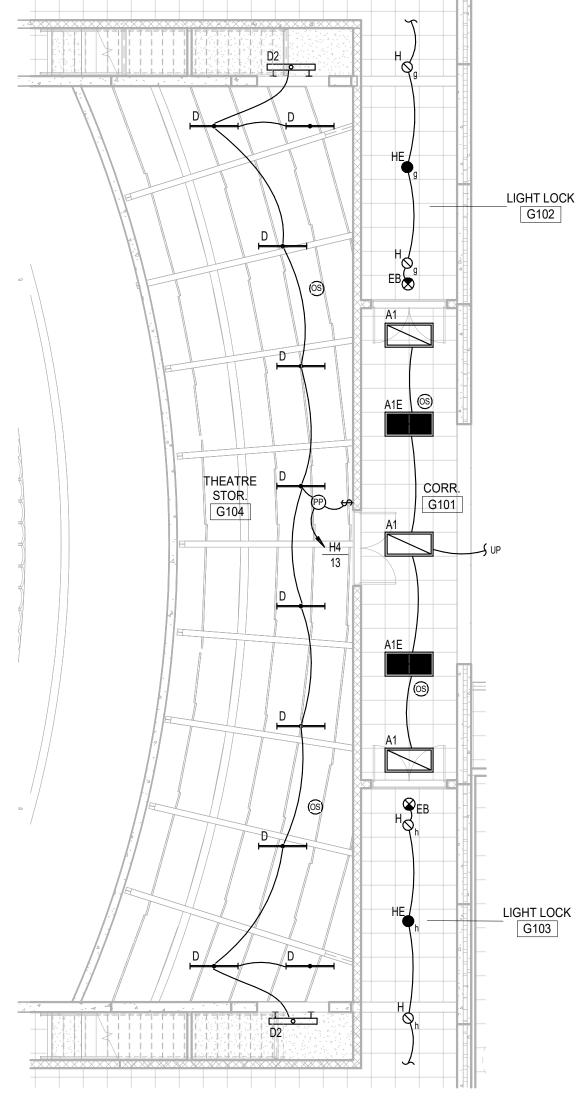


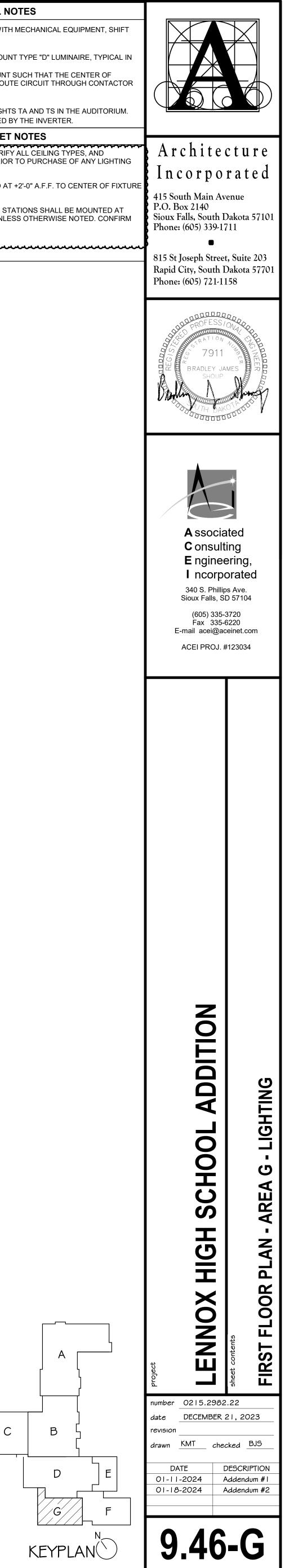
FIRST FLOOR PLAN - AREA G - LIGHTING Ν

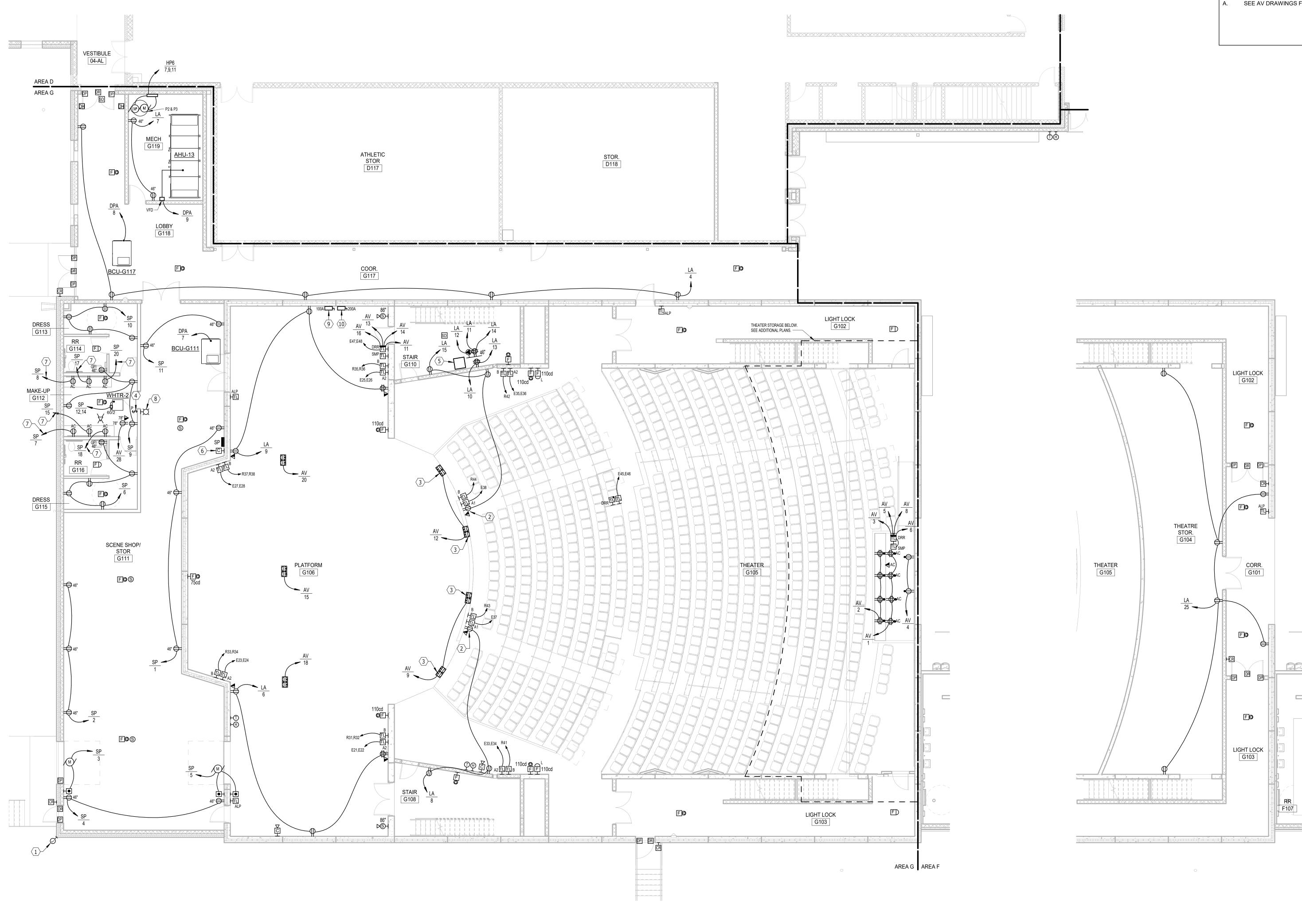


N

 (\mathbf{N})

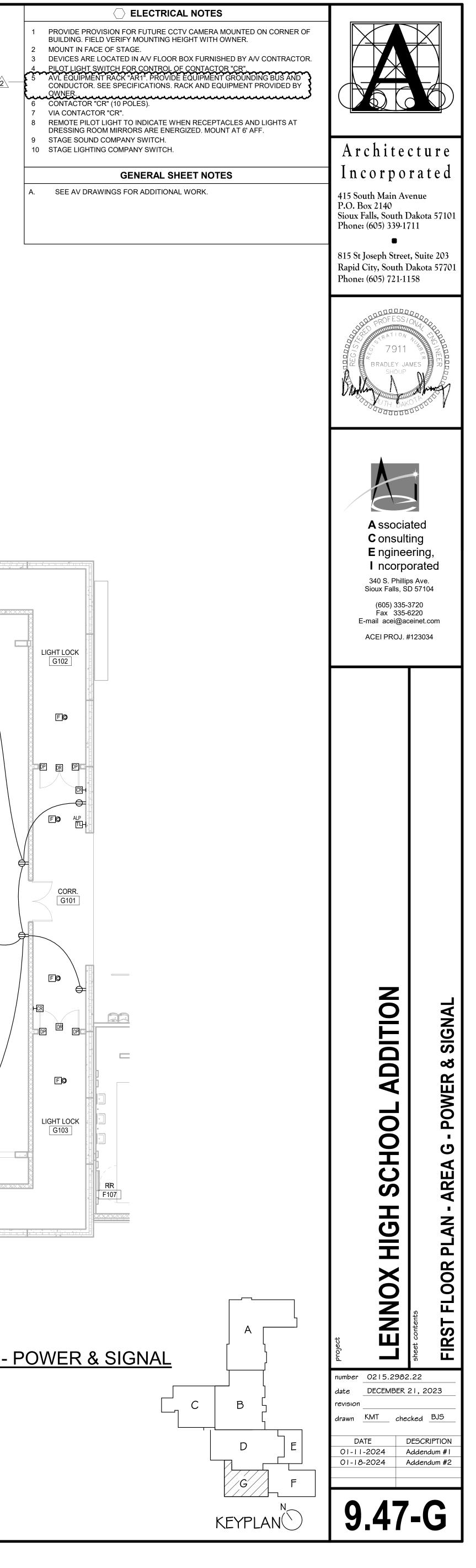


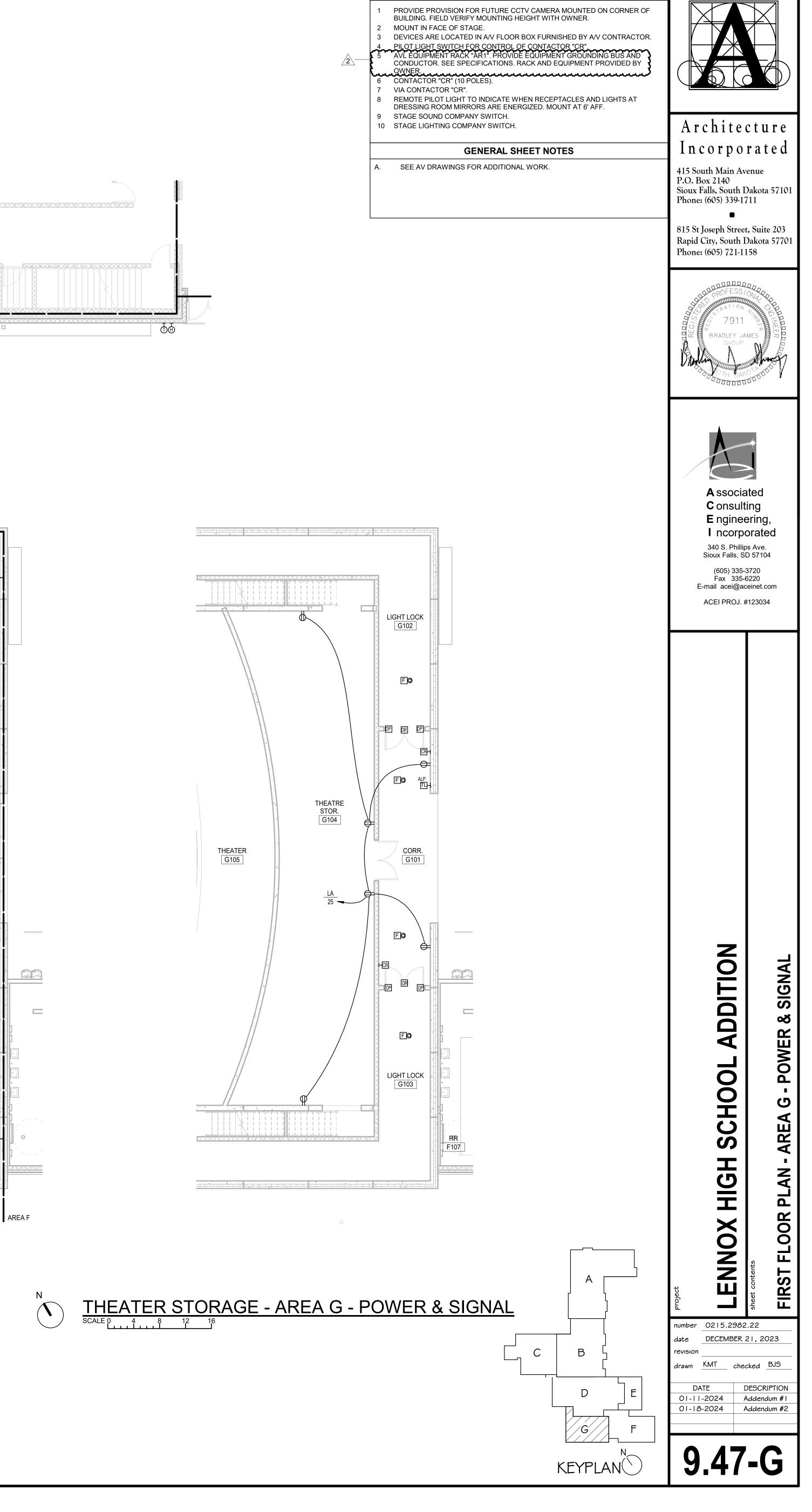


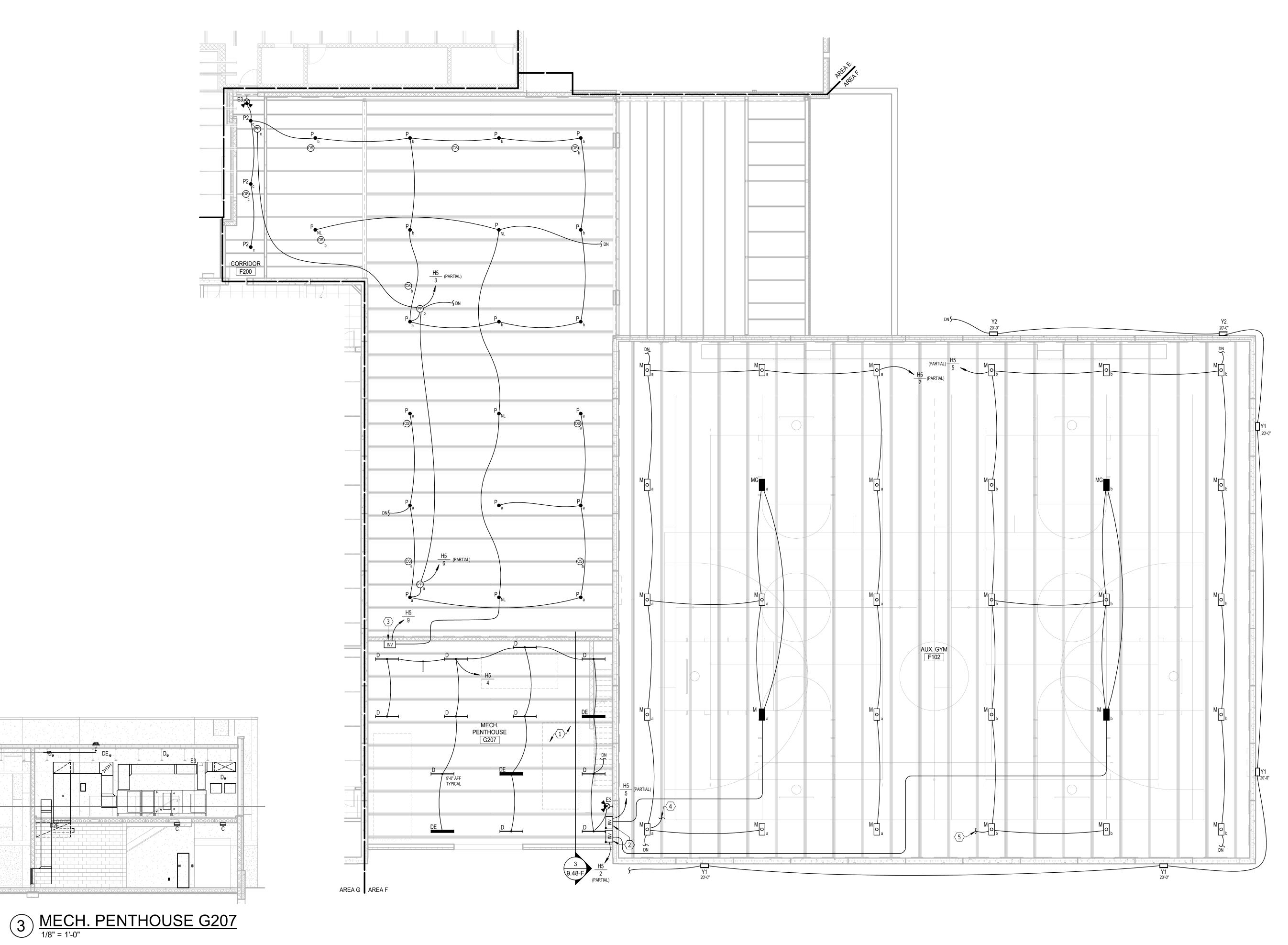


FIRST FLOOR PLAN - AREA G - POWER & SIGNAL \mathbf{N}

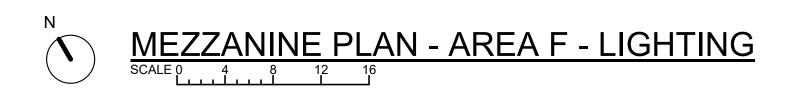
Ν



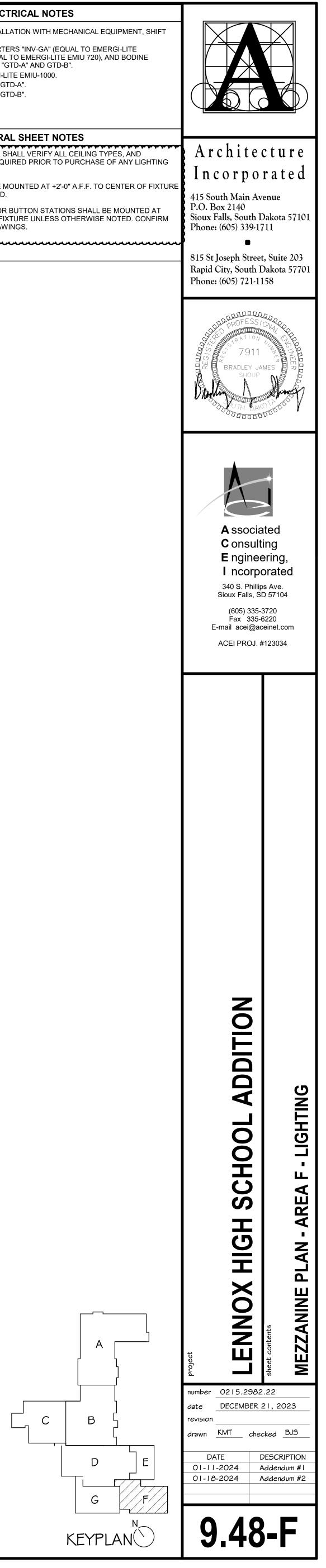




DE_e



	1	COORDINATE LIGHTING INSTALLATION WITH MECHANICAL I AS NECESSARY.
	2	EMERGENCY LIGHTING INVERTERS "INV-GA" (EQUAL TO EM EMIU-720) AND "INV-GB" (EQUAL TO EMERGI-LITE EMIU 720), GTD-20A TRANSFER DEVICES "GTD-A" AND GTD-B".
	3	INVERTOR EQUAL TO EMERGI-LITE EMIU-1000.
	4	SWITCHLEG TO GTD DEVICE "GTD-A".
	5	SWITCHLEG TO GTD DEVICE "GTD-B".
		GENERAL SHEET NOTES
	A.	ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING T MOUNTING HARDWARE REQUIRED PRIOR TO PURCHASE FIXTURES.
<u>></u> {	В.	ALL STEP LIGHTS SHALL BE MOUNTED AT +2'-0" A.F.F. TO UNLESS OTHERWISE NOTED.
	C.	ALL SWITCHES, DIMMERS OR BUTTON STATIONS SHALL +40" A.F.F. TO BOTTOM OF FIXTURE UNLESS OTHERWISE WITH ARCHITECTURAL DRAWINGS.
L.	han	·······································

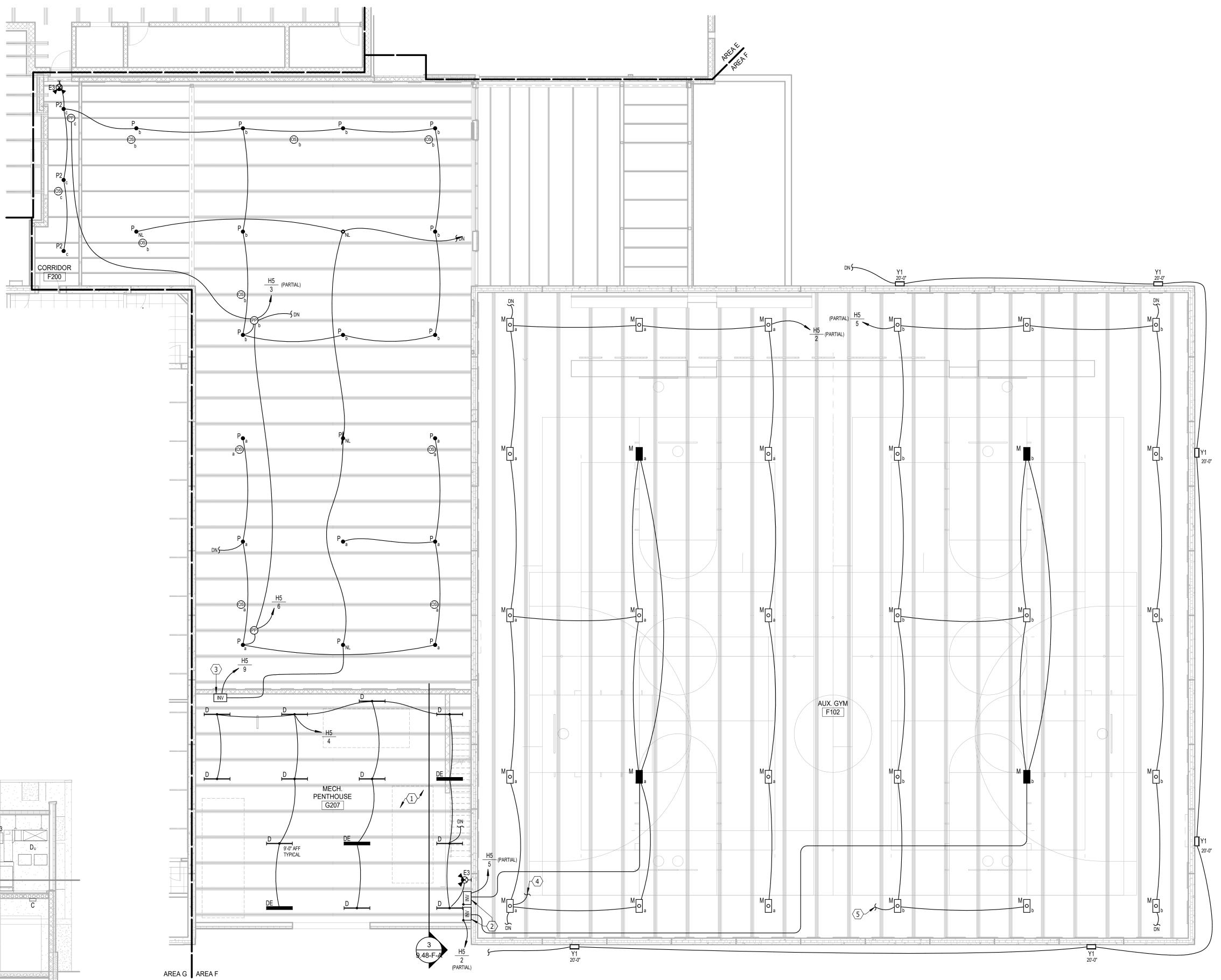


3 <u>MECH. PENTHOUSE G207 ADD ALTERNATE</u> ^{1/8" = 1'-0"}

	Ð,			DE.,,	· 1 -		D.,	E3		
				<u></u>		- , '				
					, , = ,				D_,	
						,				·
				· · · · · · ·						-
			s	- ' . > - T	· - / /		_ و§			·
					00000	000000		0000		~
		2E					C.			4
					#/>			,*		<u></u>
					#//			A		1.1.2
					- (-(* - (*) - (* - (*) - (*)
					-> '-			5		
(지 전) 공습 집 [기 시					<u>11 - 5</u>	(· · · ·		311		·

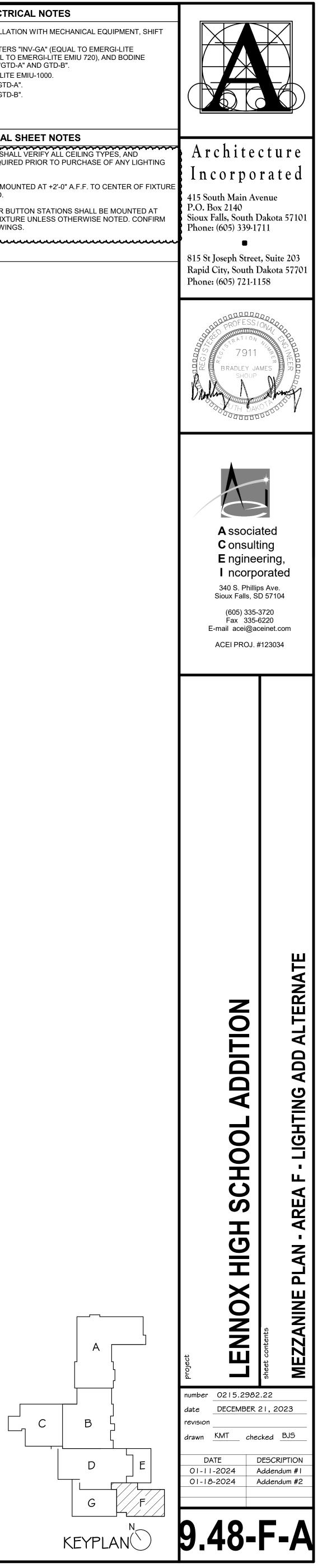
· · · · · · · · · · · · · · · · · · ·			
	Ð	D _o	

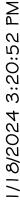


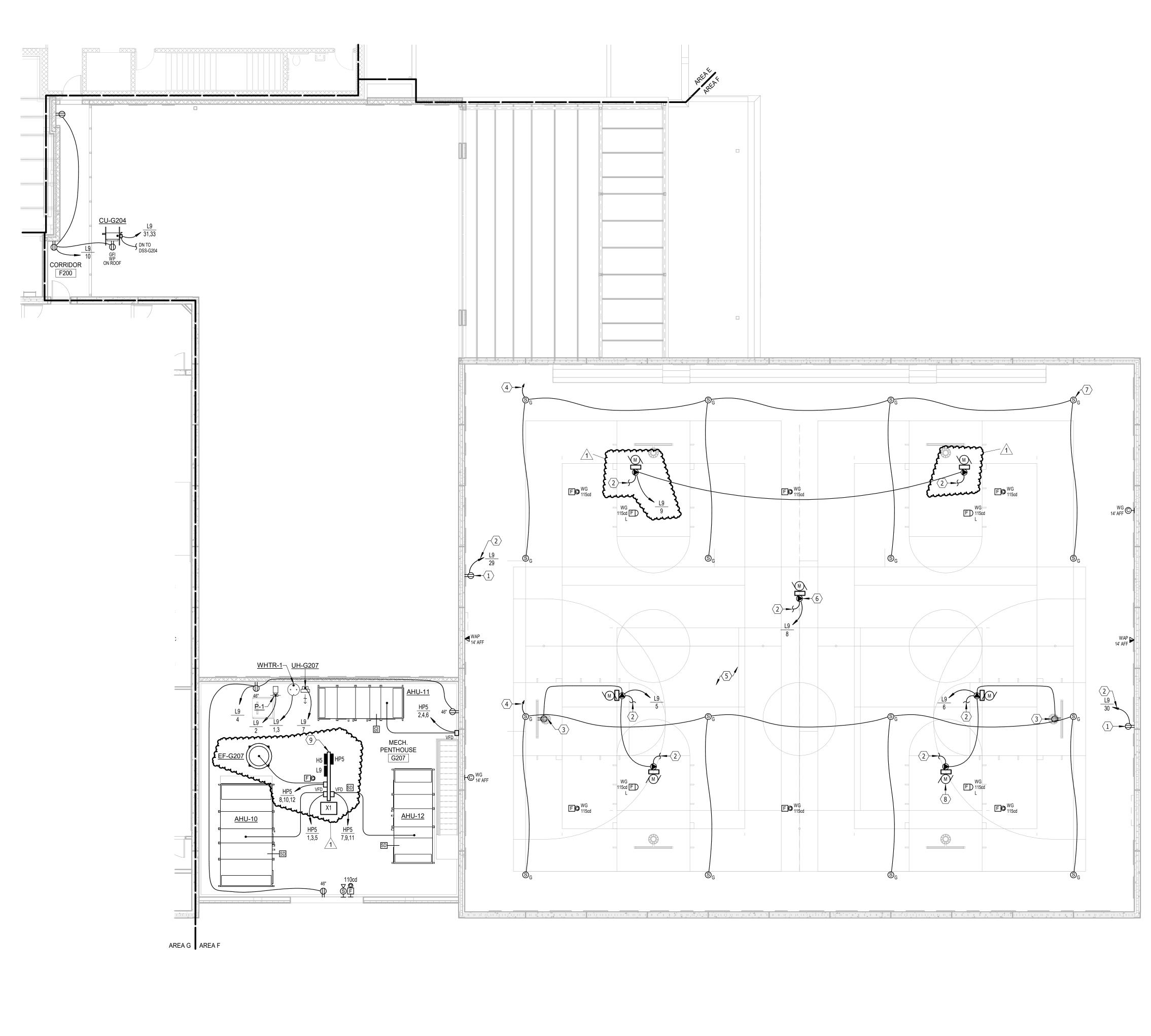




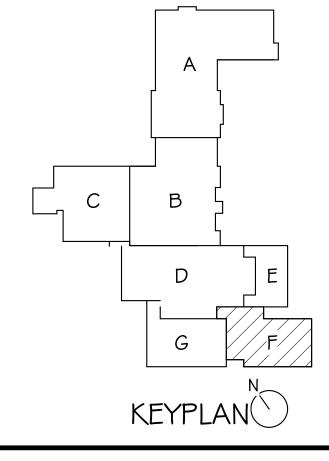
	1	COORDINATE LIGHTING INSTALLATION WITH MECHANICAL AS NECESSARY.
	2	EMERGENCY LIGHTING INVERTERS "INV-GA" (EQUAL TO EM EMIU-720) AND "INV-GB" (EQUAL TO EMERGI-LITE EMIU 720) GTD-20A TRANSFER DEVICES "GTD-A" AND GTD-B".
	3	INVERTOR EQUAL TO EMERGI-LITE EMIU-1000.
	4	SWITCHLEG TO GTD DEVICE "GTD-A".
	5	SWITCHLEG TO GTD DEVICE "GTD-B".
-		GENERAL SHEET NOTES
E E	A.	ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING T MOUNTING HARDWARE REQUIRED PRIOR TO PURCHASI FIXTURES.
<u>2</u>	В.	ALL STEP LIGHTS SHALL BE MOUNTED AT +2'-0" A.F.F. TO UNLESS OTHERWISE NOTED.
	C.	ALL SWITCHES, DIMMERS OR BUTTON STATIONS SHALL +40" A.F.F. TO BOTTOM OF FIXTURE UNLESS OTHERWISI WITH ARCHITECTURAL DRAWINGS.
ربا ا	han	· · · · · · · · · · · · · · · · · · ·







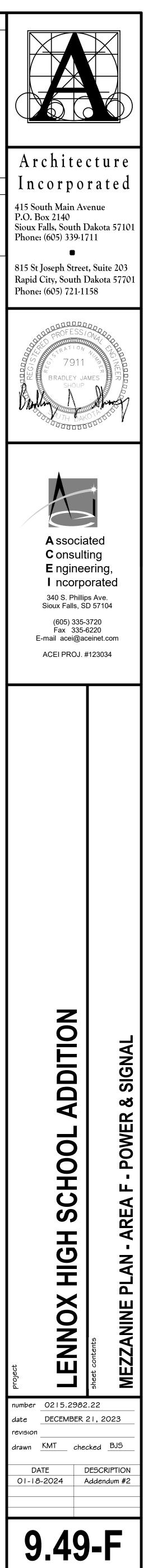
	\bigcirc ELECTRICAL NOTES
1	PROVIDE DUPLEX RECEPTACLE FOR SCOREBOARD, COOI HEIGHT WITH OWNER.
2	TO SWITCH IN GCP.
3	COORDINATE INSTALLATION WITH SHOT CLOCK AND BACK SUPPLIERS.
4	TO GYM SOUND RACK.
5	ALL 120V RECEPTACLE CIRCUITS IN THIS ROOM SHALL BE THROUGHOUT.
6	COORDINATE CONNECTION REQUIREMENTS WITH DIVIDE
7	GYM SOUND SYSTEM SPEAKER, TYPICAL.
8	COORDINATE CONNECTION REQUIREMENTS WITH BACKB SUPPLIER, TYPICAL OF 6 EACH.
9	EC TO MOUNT ELECTRICAL EQUIPMENT IN UNISTRUT.
	GENERAL SHEET NOTES
A.	SEE AV DRAWINGS FOR ADDITIONAL WORK.

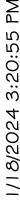


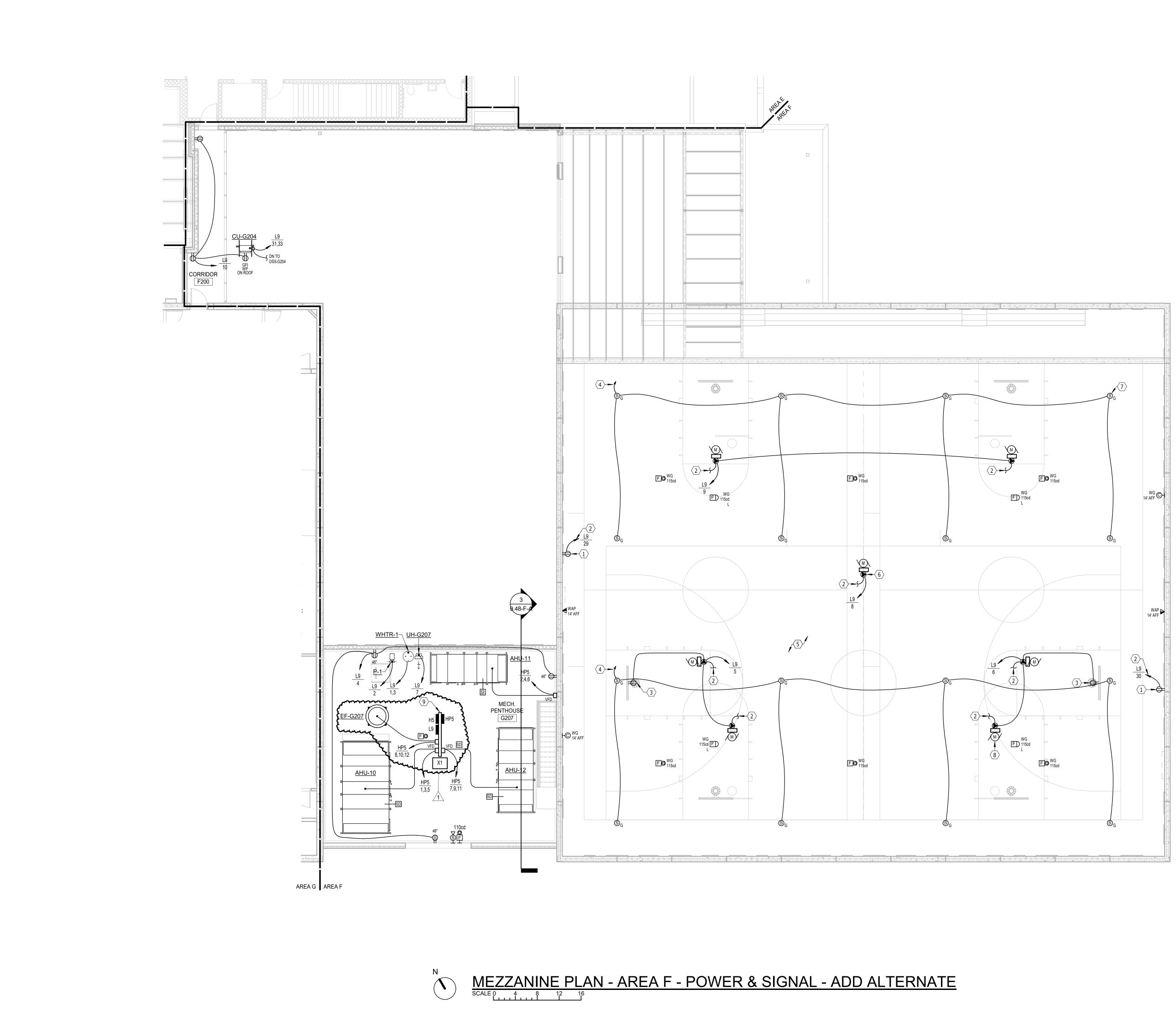


CKBOARD EQUIPMENT

BE IN #10 AWG DER CURTAIN SUPPLIER. KBOARD EQUIPMENT



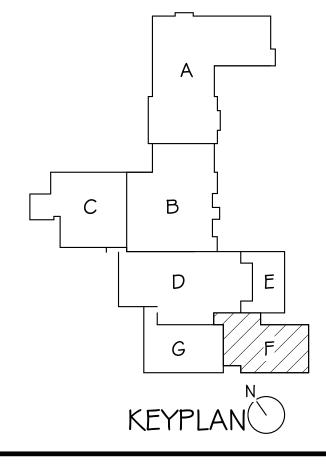


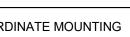


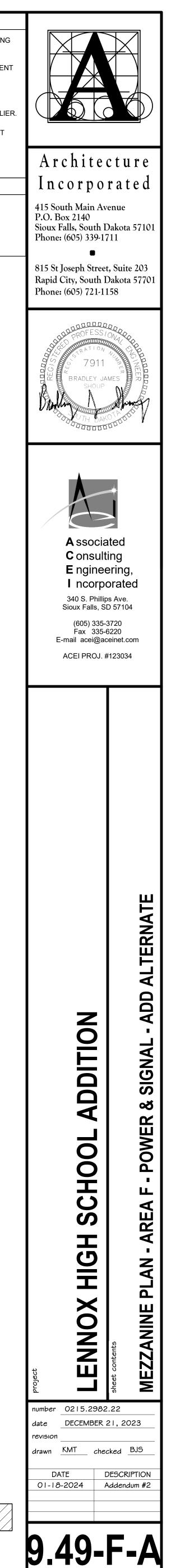
- PROVIDE DUPLEX RECEPTACLE FOR SCOREBOARD, COORDINATE MOUNTING HEIGHT WITH OWNER.
- 2 TO SWITCH IN GCP. 3 COORDINATE INSTALLATION WITH SHOT CLOCK AND BACKBOARD EQUIPMENT
- SUPPLIERS.
- 4 TO GYM SOUND RACK. 5 ALL 120V RECEPTACLE CIRCUITS IN THIS ROOM SHALL BE IN #10 AWG
- THROUGHOUT.
- 6 COORDINATE CONNECTION REQUIREMENTS WITH DIVIDER CURTAIN SUPPLIER. 7 GYM SOUND SYSTEM SPEAKER, TYPICAL.
- 8 COORDINATE CONNECTION REQUIREMENTS WITH BACKBOARD EQUIPMENT SUPPLIER, TYPICAL OF 6 EACH.
- 9 EC TO MOUNT ELECTRICAL EQUIPMENT IN UNISTRUT.

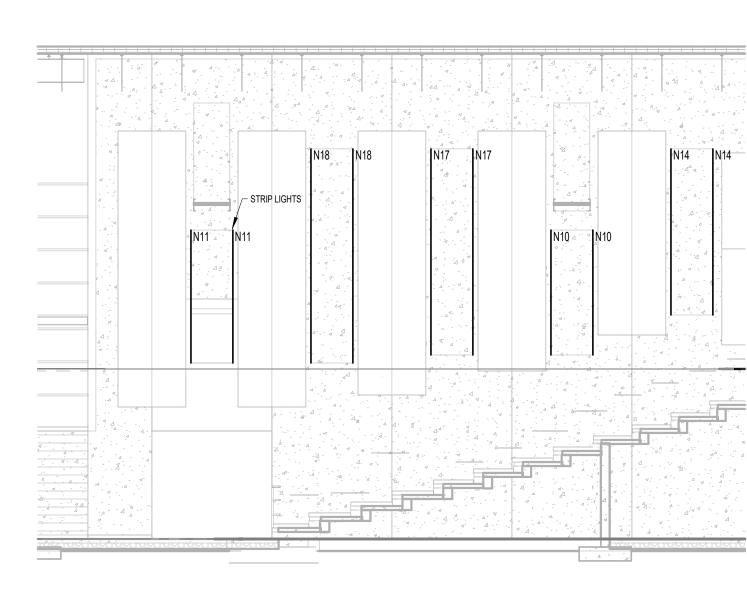
GENERAL SHEET NOTES

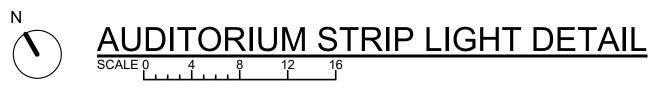
A. SEE AV DRAWINGS FOR ADDITIONAL WORK.



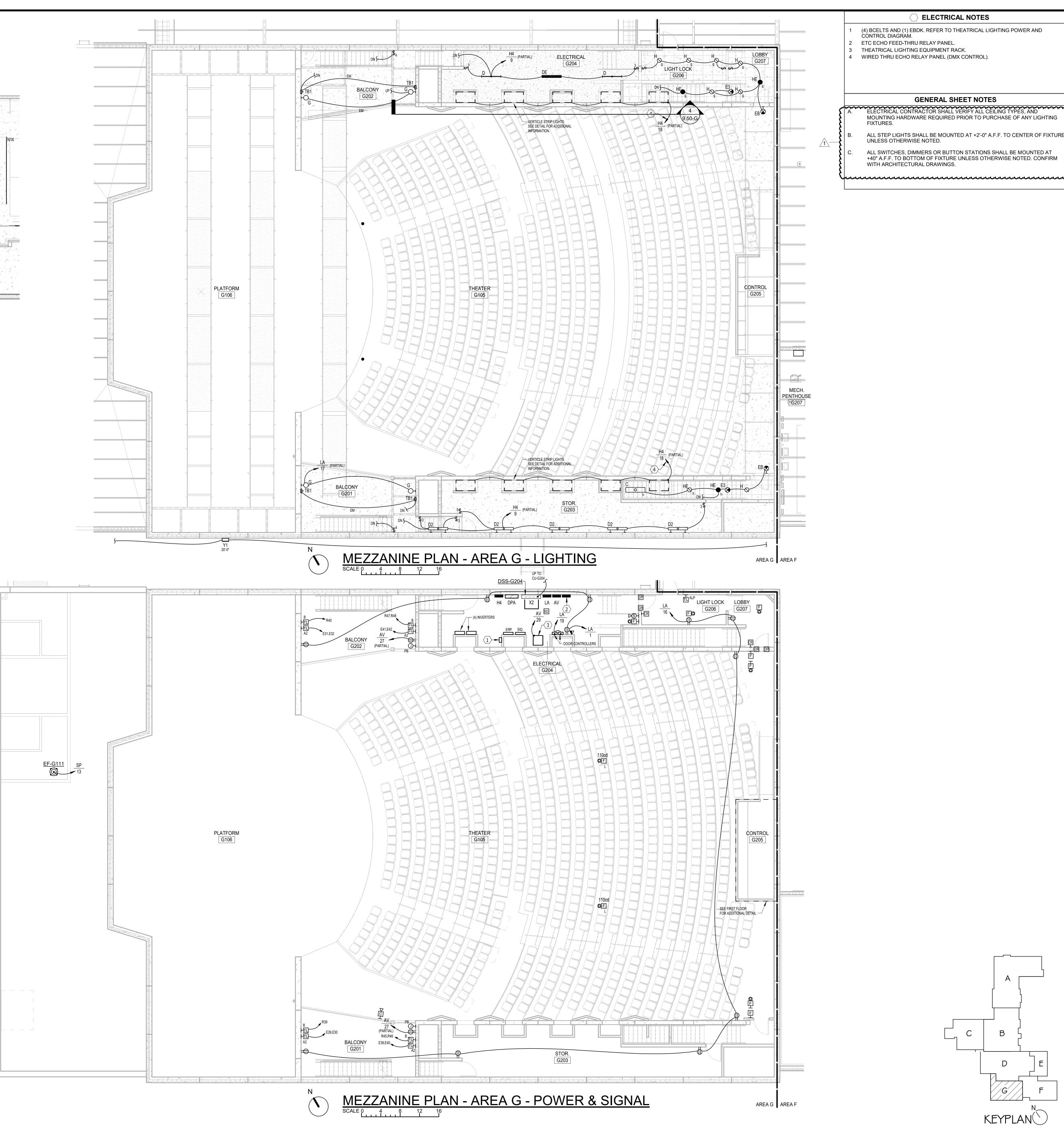




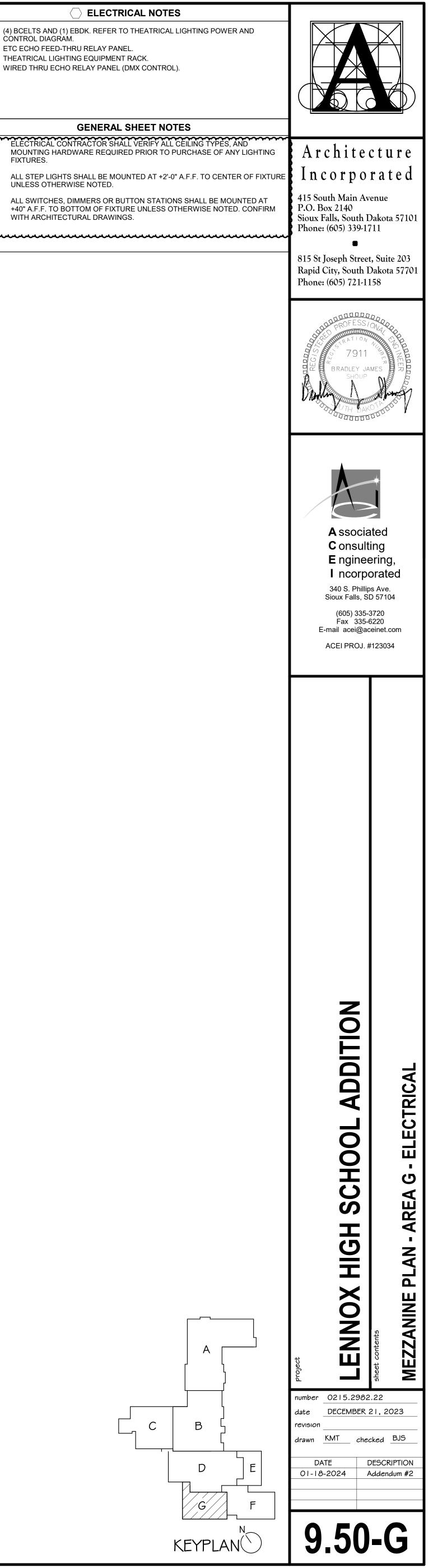


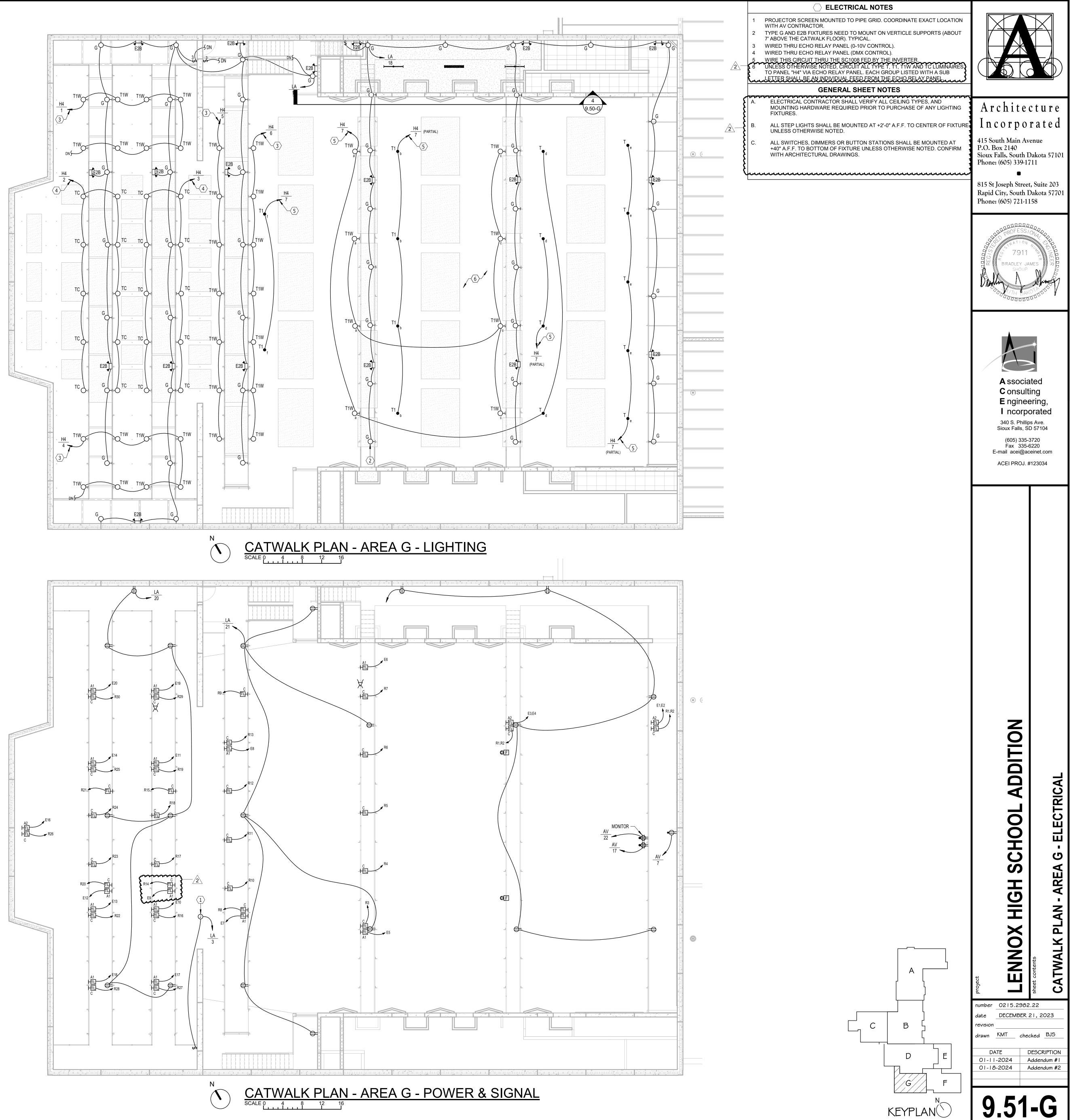


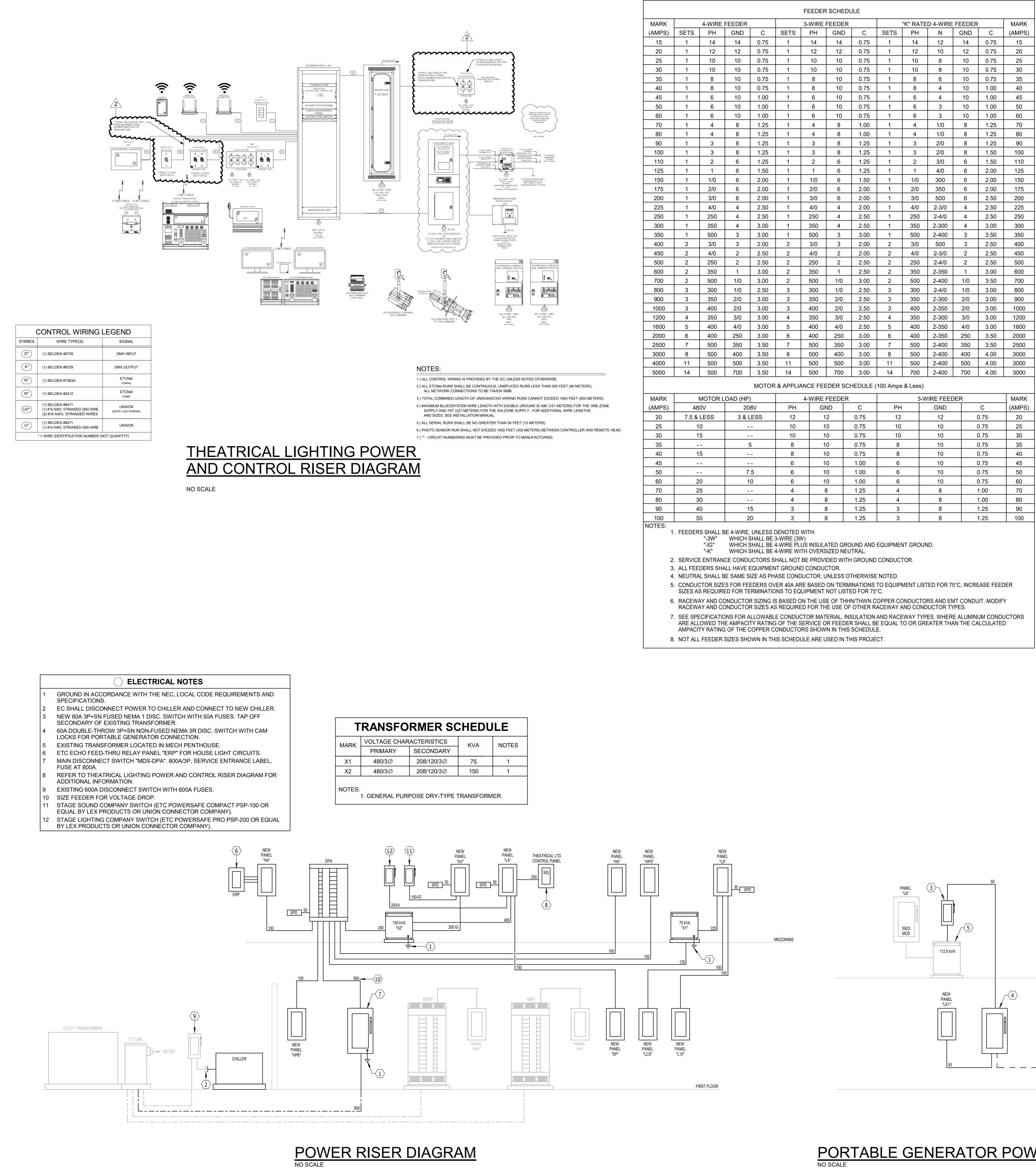




В







																							
						FEEDEF	R SCHED	JLE									E	LECT	RICA	L SYMBOL LEGEN	D		
MARK		4-WIRE F	EEDER			3-WIRE	FEEDER			"K" RATE	D 4-WIRE	E FEEDER	2	MARK							· —		
(AMPS)	SETS	PH	GND	С	SETS	PH	GND	С	SETS	PH	N	GND	С	(AMPS)	HT AF	F SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION
15	1	14	14	0.75	1	14	14	0.75	1	14	12	14	0.75	15	AS NO	TED HÀ B	SURFACE LIGHT (TYPE DENOTED)	AS NOTED		MULTIOUTLET ASSEMBLY (TYPE DENOTED)		PP	POWER PACK
20	1	12	12	0.75	1	12	12	0.75	1	12	10	12	0.75	20			, , , , , , , , , , , , , , , , , , ,	AS NOTED	₽₩в	MULTIOUTLET ASSEMBLY (TYPE DENOTED)		RD	REMOTE DRIVER
25	1	10	10	0.75	1	10	10	0.75	1	10	8	10	0.75	25	AS NO	TED ⊣⊲→ F	WALL MOUNTED FLOODLIGHT (TYPE DENOTED)	94"	Н©	CLOCK (TYPE DENOTED)	86"	H_F_< 110cd	FIRE ALARM HORN W/STROBE (CANDELAS)
30	1	10	10	0.75	1	10	10	0.75	1	10	8	10	0.75	30		⊘ R	RECESSED LIGHT (TYPE DENOTED)		P	POWER POLE (OPEN OFFICE STYLE)	86"	HEK 110cd	FIRE ALARM SPEAKER W/STROBE (CANDELA
35	1	8	10	0.75	1	8	10	0.75	1	8	6	10	0.75	35	PER SC	-	POLE MOUNTED LIGHT (TYPE DENOTED)			CIRCUIT BREAKER PANEL	86"	HFD 110cd	FIRE ALARM STROBE (CANDELAS)
40	1	8	10	0.75	1	8	10	0.75	1	8	4	10	1.00	40					(777)	POWER OR DISTRIBUTION PANEL	46"	HF	F.A. PULLSTATION
45	1	6	10	1.00	1	6	10	0.75	1	6	4	10	1.00	45	PER SC		POLE MOUNTED FLOODLIGHT (TYPE DENOTED)			SPECIAL CABINET (TYPE DENOTED)		-SD	BEAM TYPE SMOKE DETECTORS
50	1	6	10	1.00	1	6	10	0.75	1	6	3	10	1.00	50		O G	SURFACE LIGHT (TYPE DENOTED)		T1	TRANSFORMER (TYPE DENOTED)	46"	FA ANNUN	FIRE ALARM REMOTE ANNUNCIATOR
60	1	6	10	1.00	1	6	10	0.75	1	6	3	10	1.00	60		P1 • • P			M	MOTOR (SEE SCHEDULE)		FA ANNUN HSD SD	SMOKE DETECTOR (TYPE DENOTED)
70	1	4	8	1.25	1	4	8	1.00	1	4	1/0	8	1.25	70			RECESSED LIGHT (TYPE DENOTED)		\square	MANUAL MTR. STR. (W/OVERLOADS)		HE E	HEAT DETECTOR
80	1	4	8	1.25	1	4	8	1.00	1	4	1/0	8	1.25	80			STRIP LIGHT (TYPE DENOTED)		\boxtimes	MAG. MOTOR STARTER OR CONTACTOR		SD	DUCT SMOKE DETECTOR (TYPE DENOTED)
90	1	3	8	1.25	1	3	8	1.25	1	3	2/0	8	1.25	90	AS NO	A A	,			COMB. MOTOR STARTER (NON-FUSED)		F/S	FIRE/SMOKE DAMPER
100	1	3	8	1.25	1	3	8	1.25	1	3	2/0	8	1.50	100	86"		EMERGENCY BATTERY LIGHT (TYPE DENOTED)			COMB. MOTOR STARTER (FUSED)		HRI RI	REMOTE INDICATOR/TEST SWITCH
110	1	2	6	1.25	1	2	6	1.25	1	2	3/0	6	1.50	110			EXIT SIGN (TYPE DENOTED)			SAFETY DISC. SW. (NON-FUSED)		HOH	F.A. DOOR HOLDER
125	1	1	6	1.50	1	1	6	1.25	1	1	4/0	6	2.00	125	AS NO	0 0	LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH			SAFETY DISC. SW. (FUSED)		55	SPRINKLER FLOW SWITCH
150	1	1/0	6	2.00	1	1/0	6	1.50	1	1/0	300	6	2.00	150		TED HØ 1777		AS NOTED		BUS DUCT WITH PLUG UN DISCONNECT (FUSED)		Ó	SPRINKLER VALVE TAMPER SWITCH
175	1	2/0	6	2.00	1	2/0	6	2.00	1	2/0	350	6	2.00	175		-		NONOTED		VARIABLE FREQUENCY DRIVE		∽⊠	DOOR RELEASE
200	1	3/0	6	2.00	1	3/0	6	2.00	1	3/0	500	6	2.50	200	AS NO	-	LIGHT FIXTURE WITH EMERGENCY BALLAST		R	RELAY		DP	DOOR POSITION SWITCH
225	1	4/0	4	2.50	1	4/0	4	2.00	1	4/0	2-3/0	4	2.50	225			LIGHT ON CORD REEL (TYPE DENOTED)		©s	OCCUPANCY SENSOR - TYPE DENOTED	46"	HCR	CARD READER
250	1	250	4	2.50	1	250	4	2.50	1	250	2-4/0	4	2.50	250	AS NO			AS NOTED	HPC	PHOTOCELL	46"	HKP	KEYPAD
300	1	350	4	3.00	1	350	4	2.50	1	350	2-300	4	3.00	300	46"	ILD Ю	SINGLE POLE SW.	46"	HTC	TIME CONTROL SWITCH (TIME SWITCH)	40	HMD	MOTION DETECTOR (TYPE DENOTED)
350	1	500	3	3.00	1	500	3	3.00	1	500	2-400	3	3.50	350	46"		2 POLE SINGLE THROW SW.	40	H	HUMIDISTAT		HMD	ELECTROMAGNETIC LOCK
400	2	3/0	3	2.00	2	3/0	3	2.00	2	3/0	500	3	2.50	400	46"	٥	3-WAY SW.	46"	(T)	THERMOSTAT		H)	ADA PUSHBUTTON SWITCH
450	2	4/0	2	2.50	2	4/0	2	2.00	2	4/0	2-3/0	2	2.50	450	46"	10 ⁴	4-WAY SW.	PER SCHED		WALL HEATER (TYPE DENOTED)	46"	+(N)_M	NURSE CALL MASTER STATION
500	2	250	2	2.50	2	250	2	2.50	2	250	2-4/0	2	2.50	500	40	ю, К	KEYED SW.	PER SCHED	H2	HAND OR HAIR DRYER (TYPE DENOTED)	46"	, ∞ ^M	NURSE CALL EMERG. STATION
600	2	350	1	3.00	2	350	1	2.50	2	350	2-350	1	3.00	600	40	ю, Кор ^р	SW. W/PILOT	18"		TELEPHONE OUTLET (TYPE DENOTED)	46"	+ (N) _{CB}	NURSE CALL CODE BLUE EMERG. STATION
700	2	500	1/0	3.00	2	500	1/0	3.00	2	500	2-400	1/0	3.50	700	40	ю, _D	DIMMER SWITCH	10		WALL TELEPHONE OUTLET (TYPE DENOTED)	46"		NURSE CALL DUTY STATION
800	3	300	1/0	2.50	3	300	1/0	2.50	3	300	2-4/0	1/0	3.00	800	40	ю, os	OCCUPANCY SENSOR SWITCH	18"	W	TELECOM OUTLET (TYPE DENOTED)	46"		NURSE CALL STAFF STATION
900	3	350	2/0	3.00	3	350	2/0	2.50	3	350	2-300	2/0	3.00	900	40	ю, ^т	TIMER SWITCH	10	\swarrow	WIRELESS ACCESS POINT	46"	+√⊗s +≺®>	NURSE CALL BED STATION. SINGLE
1000	3	400	2/0	3.00	3	400	2/0	2.50	3	400	2-350	2/0	3.00	1000	40	ю ^м	MOTOR HORSEPOWER RATED SWITCH	46"	× +©	INTERCOM OUTLET LOCATION	46"	+ 10 2	NURSE CALL BED STATION. DOUBLE.
1200	4	350	3/0	3.00	4	350	3/0	2.50	4	350	2-300	3/0	3.00	1200	40		SINGLE RECEPT.	40 18"	+₩	TELEVISION OUTLET	86"	-	NURSE CALL DOME LIGHT
1600	5	400	4/0	3.00	5	400	4/0	2.50	5	400	2-350	4/0	3.00	1600	18"		DUPLEX RECEPT.	10	HAV	AV OUTLET. SEE SPCIFICATIONS.	00	$H_{N_2} M_2$ NCC	NURSE CALL EQUIPMENT CABINET
2000	6	400	250	3.00	6	400	250	3.00	6	400	2-350	250	3.50	2000	18"	H H	USB DUPLEX RECEPT. SEE SPECS	18"		MULTIPLE SERVICE OUTLET (TYPE DENOTED)	46"		NURSE CALL ANNUNCIATOR PANEL
2500	7	500	350	3.50	7	500	350	3.00	7	500	2-400	350	3.50	2500	18"	⊨⊖u	SPLIT DUPLEX RECEPT.	10		FLOOR BOX, TWO DEVICES (TYPE DENOTED)	40 AS NOTED		CAMERA
3000	8	500	400	3.50	8	500	400	3.00	8	500	2-400	400	4.00	3000	18"	⊨ ⊖ ⊨⊖ em	DUPLEX RECEPT. ON EMERGENCY CIRCUIT				AS NUTED	HCM	
4000	11	500	500	3.50	11	500	500	3.00	11	500	2-400	500	4.00	3000	18"		FOURPLEX RECEPT.			FLOOR BOX, FOUR DEVICES (TYPE DENOTED)			CONDUIT EXPOSED
5000	14	500	700	3.50	14	500	700	3.00	14	700	2-400	700	4.00	3000		₩	FOURPLEX RECEPT. ON EMERGENCY CIRCUIT	40"		DICTATION OUTLET LOCATION			CONDUIT TRANSITION UP
				мотог				HEDULE (100 Amp			·			18"	⊨∰ em	DUPLEX RECEPT, ISOLATED GROUND.		⊢© ⊢© [™]	WALL DICTATION OUTLET LOCATION		0	CONDUIT TRANSITION OP
	1			MOTOR			EDER SC			s a Less)					18"	₩ •	FOURPLEX RECEPT, ISOLATED GROUND.	46" 86"	HBO				CONDUIT STUBBED OUT
MARK	I	MOTOR L	OAD (HP))		4-WIRE	FEEDER			3-V	IRE FEE	DER		MARK	18"	⊨⊕• ⊣⊡F	DEAD FRONT GFCI DEVICE	86"		BELL BUZZER		<u> </u>	CONDUIT CONCEALED, "E" INDICATES EMER
(AMPS)	48	0V	20	8V	PH	G	ND	С	PF	1	GND		С	(AMPS)	46"			00 86"	HB/ HCIO				CONDUIT CONCEALED, E INDICATES EMER
20	7.5 &	LESS	3 & L	ESS	12	1	12	0.75	12	2	12		0.75	20	AS NO		SPECIAL RECEPT. OR CONN. (SEE SCHEDULE) JUNCTION BOX		r⊡∪ H●	CHIME PUSH BUTTON			,
25	1	0	-	-	10	1	10	0.75	10)	10		0.75	25		HO O		46"					OVERHEAD ELECTRIC BRANCH CIRCUIT HOME RUN
30	1	5	-	-	10	1	10	0.75	10)	10		0.75	30				86"	HS S	SPEAKER (WALL OR CEILING MT.)	_		
35	-	-	Ę	5	8	1	10	0.75	8		10		0.75	35		₩ ₩		86"			-		
40	1	5	-	-	8	1	10	0.75	8		10		0.75	40		Ψ		46" 	₩ F®	VOLUME CONTROL MICROPHONE OUTLET	_		
45	-	-	-	-	6	1	10	1.00	6		10		0.75	45							_	$\langle 1 \rangle$	KEYED NOTE (SEE SCHEDULE)
50	-	-	7.	.5	6	1	10	1.00	6		10		0.75	50	AS NO	- CD	RECEPT ON CORD DROP (DUPLEX SHOWN)	18"	HA _		_		HATCHED SYMBOL INDICATES REMOVED
60	2	20	1	0	6	1	10	1.00	6		10		0.75	60	AS NO	TED ⇔ _{CR}	RECEPT ON CORD REEL (DUPLEX SHOWN)		+	ANTENNA	_		
70	2	25	-	-	4		8	1.25	4		8		1.00	70	ALL DI	STANCES ARE TO CE	NTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE	NOTED.					
00	2 2				1		。	1 05	1 1		0	1	1 00	00									

]									
	1				1		R SCHED		1					1	-			E	LECI	RICA	L SYMBOL LEGEN	D		
MARK	SETS	4-WIRE	r		SETS	1		-	SETS	1	ED 4-WIRE	r	х С	MARK (AMPS)		HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION
(AMPS) 15	1	PH 14	GND 14	C 0.75	3E13	PH 14	GND 14	C 0.75	3E13	PH 14	12	GND 14	0.75	(AIVIPS) 15	-	AS NOTED	HARE	SURFACE LIGHT (TYPE DENOTED)	AS NOTED		MULTIOUTLET ASSEMBLY (TYPE DENOTED)		PP	POWER PACK
20	1	14	14	0.75	1	12	14	0.75	1	12	12	12	0.75	20	1	ASNUTED		SUNIAGE LIGHT (TITE DENOTED)	AS NOTED AS NOTED	M	MULTIOUTLET ASSEMBLY (TYPE DENOTED)		RD	REMOTE DRIVER
25	1	10	10	0.75	1	10	10	0.75	1	10	8	10	0.75	25	-	AS NOTED	≺]→ F	WALL MOUNTED FLOODLIGHT (TYPE DENOTED)	94"	Η©	CLOCK (TYPE DENOTED)	86"	<u> </u>	FIRE ALARM HORN W/STROBE (CANDELAS)
30	1	10	10	0.75	1	10	10	0.75	1	10	8	10	0.75	30	1	ASNOTED	√ ₽ I ⊘ R	RECESSED LIGHT (TYPE DENOTED)		P	POWER POLE (OPEN OFFICE STYLE)	86"		FIRE ALARM SPEAKER W/STROBE (CANDELA
35	1	8	10	0.75	1	8	10	0.75	1	8	6	10	0.75	35	1	PER SCHED		POLE MOUNTED LIGHT (TYPE DENOTED)			CIRCUIT BREAKER PANEL	86"	HED 110cd	FIRE ALARM STROBE (CANDELAS)
40	1	8	10	0.75	1	8	10	0.75	1	8	4	10	1.00	40	1						POWER OR DISTRIBUTION PANEL	46"	HĒ	F.A. PULLSTATION
45	1	6	10	1.00	1	6	10	0.75	1	6	4	10	1.00	45	1	PER SCHED		POLE MOUNTED FLOODLIGHT (TYPE DENOTED)			SPECIAL CABINET (TYPE_DENOTED)		⊢sD-► -►SD-	BEAM TYPE SMOKE DETECTORS
50	1	6	10	1.00	1	6	10	0.75	1	6	3	10	1.00	50	1		OG	SURFACE LIGHT (TYPE DENOTED)		T1	TRANSFORMER (TYPE DENOTED)	46"	FA ANNUN	FIRE ALARM REMOTE ANNUNCIATOR
60	1	6	10	1.00	1	6	10	0.75	1	6	3	10	1.00	60		P1(•	• • P2	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED))		MOTOR (SEE SCHEDULE)	_		SMOKE DETECTOR (TYPE DENOTED)
70	1	4	8	1.25	1	4	8	1.00	1	4	1/0	8	1.25	70			H	RECESSED LIGHT (TYPE DENOTED)		\square	MANUAL MTR. STR. (W/OVERLOADS)		НН Н	HEAT DETECTOR
80	1	4	8	1.25	1	4	8	1.00	1	4	1/0	8	1.25	80			ST1	STRIP LIGHT (TYPE DENOTED)		\boxtimes	MAG. MOTOR STARTER OR CONTACTOR		SD	DUCT SMOKE DETECTOR (TYPE DENOTED)
90	1	3	8	1.25	1	3	8	1.25	1	3	2/0	8	1.25	90		AS NOTED		TRACK AND TRACK LIGHT (TYPES DENOTED)		⊠h	COMB. MOTOR STARTER (NON-FUSED)		F/S	FIRE/SMOKE DAMPER
100	1	3	8	1.25	1	3	8	1.25	1	3	2/0	8	1.50	100	-	86"		EMERGENCY BATTERY LIGHT (TYPE DENOTED)		Ζη	COMB. MOTOR STARTER (FUSED)	_	HRI RI	REMOTE INDICATOR/TEST SWITCH
110	1	2	6	1.25	1	2	6	1.25	1	2	3/0	6	1.50	110			H€ E €E	EXIT SIGN (TYPE DENOTED)			SAFETY DISC. SW. (NON-FUSED)	_	н©я	F.A. DOOR HOLDER
125	1	1	6	1.50	1	1	6	1.25	1	1	4/0	6	2.00	125	-	AS NOTED		LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH		h	SAFETY DISC. SW. (FUSED)	_	\$\$	SPRINKLER FLOW SWITCH
150	1	1/0	6	2.00	1	1/0	6	1.50	1	1/0	300	6	2.00	150	-	AS NOTED		LIGHT FIXTURE ON (EM) CRITICAL BRANCH	AS NOTED		BUS DUCT WITH PLUG UN DISCONNECT (FUSED)		≶≶	SPRINKLER VALVE TAMPER SWITCH
175	1	2/0	6	2.00	1	2/0	6	2.00	1	2/0	350	6	2.00	175	-	AS NOTED	HØ 1777	LIGHT FIXTURE ON EMERGENCY CIRCUIT		VFD	VARIABLE FREQUENCY DRIVE	_	DR	DOOR RELEASE
200	1	3/0	6	2.00	1	3/0	6	2.00	1	3/0	500	6	2.50	200	-	AS NOTED		LIGHT FIXTURE WITH EMERGENCY BALLAST		R	RELAY	_	DP	DOOR POSITION SWITCH
225	1	4/0	4	2.50		4/0	4	2.00		4/0	2-3/0	4	2.50	225	-		$\Box \sim \Sigma$	LIGHT ON CORD REEL (TYPE DENOTED)		0 _s	OCCUPANCY SENSOR - TYPE DENOTED	46"	HCR	CARD READER
250	1	250	4	2.50	1	250	4	2.50	1	250	2-4/0	4	2.50	250	-	AS NOTED	CH3	LIGHTING CHANNEL WIRE (TYPE DENOTED)	AS NOTED	HPC	PHOTOCELL	46"	HKP	KEYPAD
300	1	350	4	3.00	1	350	4	2.50		350	2-300	4	3.00	300	-	46"	К О	SINGLE POLE SW.	46"	HTC	TIME CONTROL SWITCH (TIME SWITCH)	_	HMD	MOTION DETECTOR (TYPE DENOTED)
350	1	500	3	3.00	1	500	3	3.00	1	500	2-400	3	3.50	350	-	46"	⊮∽²	2 POLE SINGLE THROW SW.	46"	H	HUMIDISTAT	_	HML	ELECTROMAGNETIC LOCK
400	2	3/0	3	2.00	2	3/0	3	2.00	2	3/0	500	3	2.50	400	-	46"	₩ ³	3-WAY SW.	46"	Ţ	THERMOSTAT	_	нD	ADA PUSHBUTTON SWITCH
450	2	4/0 250	2	2.50	2	4/0	2	2.00	2	4/0 250	2-3/0 2-4/0	2	2.50 2.50	450	-	46"	₩ ⁴	4-WAY SW.	PER SCHEE) — <u>↓</u> → H2	WALL HEATER (TYPE DENOTED)	46"	+(N)_M	NURSE CALL MASTER STATION
600	2	350	2	3.00	2	350	2	2.50	2	350	2-4/0	2	3.00	600	-	46"	К	KEYED SW.	PER SCHEE) [], D1	HAND OR HAIR DRYER (TYPE DENOTED)	46"	+N _E	NURSE CALL EMERG. STATION
700	2	500	1/0	3.00	2	500	1/0	3.00	2	500	2-330	1/0	3.50	700	1	46"	Ю ^Р	SW. W/PILOT	18"		TELEPHONE OUTLET (TYPE DENOTED)	46"	+ N CB	NURSE CALL CODE BLUE EMERG. STATION
800	3	300	1/0	2.50	3	300	1/0	2.50	3	300	2-4/0	1/0	3.00	800	-	46"	ю ^р	DIMMER SWITCH	46"	► w	WALL TELEPHONE OUTLET (TYPE DENOTED)	46"	+ NDS	NURSE CALL DUTY STATION
900	3	350	2/0	3.00	3	350	2/0	2.50	3	350	2-300	2/0	3.00	900	1	46"	₩ ^{OS}	OCCUPANCY SENSOR SWITCH	18"			46"	+ NSS	NURSE CALL STAFF STATION
1000	3	400	2/0	3.00	3	400	2/0	2.50	3	400	2-350	2/0	3.00	1000		46"	₩ I			X		46"	+	NURSE CALL BED STATION. SINGLE
1200	4	350	3/0	3.00	4	350	3/0	2.50	4	350	2-300	3/0	3.00	1200	1	46"	K↔ ^M	MOTOR HORSEPOWER RATED SWITCH	46"	-+®		46"	+	NURSE CALL BED STATION. DOUBLE.
1600	5	400	4/0	3.00	5	400	4/0	2.50	5	400	2-350	4/0	3.00	1600	1	18"	ю			HTV HAV	TELEVISION OUTLET A/V OUTLET. SEE SPCIFICATIONS.	86"	$H_{2} \times L_{2}$	NURSE CALL DOME LIGHT NURSE CALL EQUIPMENT CABINET
2000	6	400	250	3.00	6	400	250	3.00	6	400	2-350	250	3.50	2000	1	18" 40"	₩ H Q H	DUPLEX RECEPT. USB DUPLEX RECEPT. SEE SPECS	18"			401	NCC	
2500	7	500	350	3.50	7	500	350	3.00	7	500	2-400	350	3.50	2500	1	18"	⊨⊖u	SPLIT DUPLEX RECEPT.	18"		MULTIPLE SERVICE OUTLET (TYPE DENOTED) FLOOR BOX, TWO DEVICES (TYPE DENOTED)			CAMERA
3000	8	500	400	3.50	8	500	400	3.00	8	500	2-400	400	4.00	3000]	10	⊨ ⊖ ⊨⊖ em	DUPLEX RECEPT. ON EMERGENCY CIRCUIT				AS NOTED	HCM	CAMENA CONDUIT CONCEALED IN WALL OR OVERHE
4000	11	500	500	3.50	11	500	500	3.00	11	500	2-400	500	4.00	3000		10	F⊕ E™	FOURPLEX RECEPT.			FLOOR BOX, FOUR DEVICES (TYPE DENOTED)	-		CONDUIT EXPOSED
5000	14	500	700	3.50	14	500	700	3.00	14	700	2-400	700	4.00	3000		10	⊨⊕ em	FOURPLEX RECEPT. ON EMERGENCY CIRCUIT	18"	ΗD	DICTATION OUTLET LOCATION		0	CONDUIT TRANSITION UP
				ΜΟΤΟΕ		ANCE FE		HEDULE	(100 Amns	s & I ess)						10	F⊕•	DUPLEX RECEPT, ISOLATED GROUND.	46"	⊢© ⊢© [₩]	WALL DICTATION OUTLET LOCATION		•	CONDUIT TRANSITION DOWN
	1								1	,					-	18"	⊢⊖•	FOURPLEX RECEPT, ISOLATED GROUND.	86"	HBO	BELL			CONDUIT STUBBED OUT
MARK		MOTOR L	· ` ` _ `	/			FEEDER				VIRE FEEL			MARK		46"	HDF	DEAD FRONT GFCI DEVICE	86"	HB/	BUZZER		<u> </u>	CONDUIT CONCEALED, "E" INDICATES EMER
(AMPS)	+	0V	20		PH			C	PH		GND		C	(AMPS)	-	AS NOTED		SPECIAL RECEPT. OR CONN. (SEE SCHEDULE)	86"	HCO	CHIME			CONDUIT EXPOSED, "E" INDICATES EMERGE
20		LESS	3&1		12		12	0.75	12		12		0.75	20	-		HO O	JUNCTION BOX	46"	H•	PUSH BUTTON		OHE	OVERHEAD ELECTRIC
25		0		-	10		10	0.75	10		10		0.75	25	-			DUPLEX FLOOR RECEPT.	86"	HS S	SPEAKER (WALL OR CEILING MT.)			BRANCH CIRCUIT HOME RUN
30 35		5		- 5	10		10 10	0.75 0.75	10	,	<u> </u>		0.75	30 35	{			FOURPLEX FLOOR RECEPT.	86"		HORN TYPE SPEAKER			CABLE TRAY (TYPE DENOTED)
40		5		-	8		10	0.75	δ 0		10		0.75	40	{		Φ	DUPLEX CEILING RECEPT.	46"	юv	VOLUME CONTROL		⊑∃	CONDUIT SLEEVE (SIZE DENOTED)
40		5 -		-	6		10	1.00	6		10		0.75	40	1		+	FOURPLEX CEILING RECEPT.	18"	HM	MICROPHONE OUTLET	_	$\langle 1 \rangle$	KEYED NOTE (SEE SCHEDULE)
43 50		-		- .5	6		10	1.00	6		10		0.75	50	1	AS NOTED	€ _{CD}	RECEPT ON CORD DROP (DUPLEX SHOWN)		HA	AUXILIARY OUTLET	_		HATCHED SYMBOL INDICATES REMOVED
60		20		. <u>.</u> 0	6		10	1.00	6		10		0.75	60	1	AS NOTED		RECEPT ON CORD REEL (DUPLEX SHOWN)		+	ANTENNA	_		
70		25		-	4		8	1.25	4		8		1.00	70	1		-							
80		80		-	4		8	1.25	4		8		1.00	80	1	ALL DISTAN	UES ARE TO CEN	FER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE I	NUTED.					
90		0		5	3		8	1.25	3		8		1.25	90	1									
100		50		0	3		8	1.25	3		8		1.25	100	1									

1. FEEDERS SHALL BE 4-WIRE, UNLESS DENOTED WITH:

"-IG" WHICH SHALL BE 4-WIRE PLUS INSULATED GROUND AND EQUIPMENT GROUND. "-K" WHICH SHALL BE 4-WIRE WITH OVERSIZED NEUTRAL.

2. SERVICE ENTRANCE CONDUCTORS SHALL NOT BE PROVIDED WITH GROUND CONDUCTOR.

3. ALL FEEDERS SHALL HAVE EQUIPMENT GROUND CONDUCTOR.

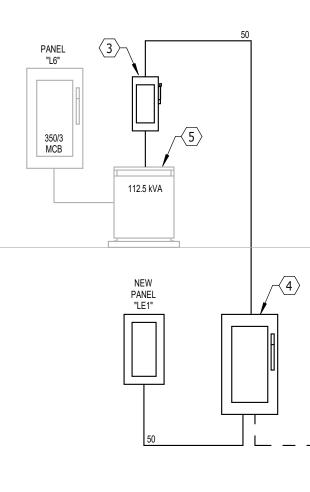
5. CONDUCTOR SIZES FOR FEEDERS OVER 40A ARE BASED ON TERMINATIONS TO EQUIPMENT LISTED FOR 75°C, INCREASE FEEDER

6. RACEWAY AND CONDUCTOR SIZING IS BASED ON THE USE OF THHN/THWN COPPER CONDUCTORS AND EMT CONDUIT. MODIFY

RACEWAY AND CONDUCTOR SIZES AS REQUIRED FOR THE USE OF OTHER RACEWAY AND CONDUCTOR TYPES.

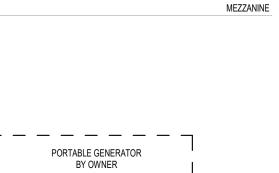
7. SEE SPECIFICATIONS FOR ALLOWABLE CONDUCTOR MATERIAL, INSULATION AND RACEWAY TYPES. WHERE ALUMINUM CONDUCTORS ARE ALLOWED THE AMPACITY RATING OF THE SERVICE OR FEEDER SHALL BE EQUAL TO OR GREATER THAN THE CALCULATED AMPACITY RATING OF THE COPPER CONDUCTORS SHOWN IN THIS SCHEDULE.

8. NOT ALL FEEDER SIZES SHOWN IN THIS SCHEDULE ARE USED IN THIS PROJECT.

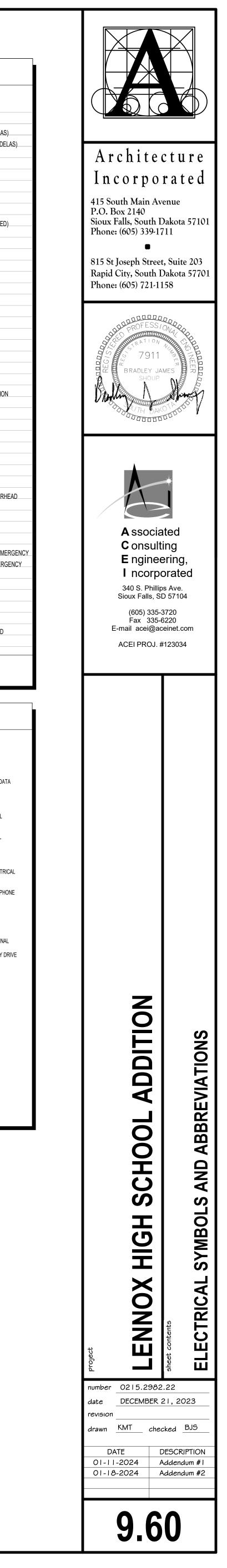


PORTABLE GENERATOR POWER RISER DIAGRAM NO SCALE

			ELECTRIC	AL	ABBREVIA	TION	NS LIST		
1P	1 POLE (2P, 3P, 4P, ETC.)	DC	DROP CORD	HD	HAND DRYER	N.C.	NORMALLY CLOSED	SURF	SURFACE MOUNT
		DCP	DOMESTIC WATER		HORSEPOWER	NEC	NATIONAL ELECTRICAL CODE	SW	SWITCH
A	AMPERE		CIRCULATING PUMP	HPF	HIGH POWER FACTOR	NEMA	NATIONAL ELECTRICAL	SWBD	SWITCHBOARD
AC	ABOVE COUNTER -	DEPT	DEPARTMENT	HT	HEIGHT		MANUFACTURER'S	SYM	SYMMETRICAL
	(3" ABOVE BACKSPLASH	DET	DETAIL	HTG	HEATING		ASSOCIATION	SYS	SYSTEM
	OR COUNTERTOP)	DIA	DIAMETER	HTR	HEATER	NFDS	NON-FUSED SAFETY	TEL	TELEPHONE
ACLG	ABOVE CEILING	DISC	DISCONNECT	HV	HIGH VOLTAGE		DISCONNECT SWITCH	TEL/DAT	A TELEPHO
ADO	AUTOMATIC DOOR OPENER	DIST	DISTRIBUTION	HVAC	HEATING, VENTILATING AND	NIC	NOT IN CONTRACT	TERM	TERMINAL
AF	AMP FRAME	DN	DOWN		AIR CONDITIONING	NL	NIGHT LIGHT (24/7)	TL	TWIST LOCK
AFF	ABOVE FINISHED FLOOR	DPR	DAMPER	HWP	HYDRONIC WATER PUMP	N.O.	NORMALLY OPEN	TR	TAMPER RESISTA
AFG	ABOVE FINISHED GRADE	DS	SAFETY DISCONNECT SWITCH			NPF	NORMAL POWER FACTOR	T-STAT	THERMOSTAT
AFI	ARC FAULT CIRCUIT	DT	DOUBLE THROW	IC	INTERRUPTING CAPACITY	NTS	NOT TO SCALE	TTC	TELEPHONE TERM
/ 11 /	INTERRUPTER		DRAWING	IG	ISOLATED GROUND				CABINET
AHU	AIR HANDLING UNIT	EC	ELECTRICAL CONTRACTOR	IMC	INTERMEDIATE METAL CONDUIT	ОН	OVERHEAD	TV	TELEVISION
AL	ALUMINUM		ELECTRIC. ELECTRICAL	INCAND		OL	OVERLOADS	TVTC	TELEVISION TERM
ALT	ALTERNATE		ELEVATOR	IR	INFRARED	0L	OVEREDADO	1010	CABINET
AMP	AMPERE	EM	EMERGENCY	I/W	INTERLOCK WITH	PA	PUBLIC ADDRESS	TYP	TYPICAL
AMPL	AMPLIFIER	EMS	ENERGY MANAGEMENT SYSTEM	1/ V V		PB	PULL BOX OR PUSHBUTTON	IIF	TIFICAL
	ANNUNCIATOR	EMT	ELECTRICAL METALLIC TUBING	J-BOX	JUNCTION BOX	PE	PNEUMATIC ELECTRIC	UC	UNDER COUNTER
	APPROXIMATELY	EP	ELECTRIC PNEUMATIC	J-DOX	JUNCTION BOX	PED	PEDESTAL	UE	UNDER COUNTER
APPROX AQ-STAT			EQUIPMENT	KV	KILOVOLT	PED	POWER FACTOR	UG	UNDERGROUND
AQ-STAT ARCH	ACCHITECT. ARCHITECTURAL	EQUIP	ELECTRIC WATER COOLER	KVA	KILOVOLT-AMPERE	PF	PHASE	UH	UNIT HEATER
		EWC	COORDINATE RCPT LOCATION WITH	KVA KVAR	KILOVOLT-AMPERE REACTIVE		PHASE POST INDICATING VALVE	UH UT	UNDERGROUND T
AS	AMP SWITCH		MECHANICAL CONTRACTOR			PIV		• ·	
AT		EVICE		KW	KILOWATT KILOWATT HOUR	PNL	PANEL	UTIL	
ATS	AUTOMATIC TRANSFER SWITCH		EXISTING	KWH	KILOWATTHOUR	PP	POWER POLE	UV	UNIT VENTILATOR
AUTO	AUTOMATIC	EXH	EXHAUST	100		PR	PAIR		ULTRAVIOLET
AUX	AUXILIARY	EXP	EXPLOSION PROOF	LOC	LOCATE OR LOCATION	PRI	PRIMARY		
AV	AUDIO VISUAL			LT	LIGHT	PROJ	PROJECTION	V	VOLT
AWG	AMERICAN WIRE GAUGE	FA	FIRE ALARM	LTG	LIGHTING	PRV	POWER ROOF VENTILATOR	VA	VOLT-AMPERES
D 4 TT		FABP	FIRE ALARM BOOSTER POWER	LTNG	LIGHTNING	PT	POTENTIAL TRANSFORMER	VDT	VIDEO DISPLAY TE
BATT	BATTERY		SUPPLY PANEL	LV	LOW VOLTAGE	PVC	POLYVINYL CHLORIDE	VERT	VERTICAL
BD	BOARD		FIRE ALARM CONTROL PANEL	••••		-	(CONDUIT)	VFD	VARIABLE FREQUE
BLDG	BUILDING	FCU	FAN COIL UNIT	MAX	MAXIMUM	PWR	POWER	VOL	VOLUME
BMS	BUILDING MANAGEMENT	FIXT	FIXTURE	MAG.S	MAGNETIC STARTER				
	SYSTEM	FLR	FLOOR	M/C	MOMENTARY CONTACT	QUAN	QUANTITY	W	WATT
			FLUORESCENT	MC	MECHANICAL CONTRACTOR	RC	RETRACTABLE CORD REEL	W/	WITH
С	CONDUIT	FU	FUSE	MCB	MAIN CIRCUIT BREAKER	RCPT	RECEPTACLE	WG	WIRE GUARD
CAB	CABINET	FUDS	FUSED SAFETY DISCONNECT	MCC	MOTOR CONTROL CENTER	REQD	REQUIRED	WH	WATER HEATER
CAT	CATALOG		SWITCH	MDC	MAIN DISTRIBUTION CENTER	RM	ROOM	W/O	WITHOUT
CATV	CABLE TELEVISION			MDP	MAIN DISTRIBUTION PANEL	RSC	RIGID STEEL CONDUIT	WP	WEATHERPROOF
CB	CIRCUIT BREAKER	GA	GAUGE	MFR	MANUFACTURER	RTU	ROOF TOP UNIT		
CCTV	CLOSED CIRCUIT TELEVISION		GALLON	MFS	MAIN FUSED DISCONNECT				TRANSFORMER
CKT	CIRCUIT		GALVANIZED		SWITCH	SC	SURFACE CONDUIT	XFR	TRANSFER
CLG	CEILING	GC	GENERAL CONTRACTOR	MH	MANHOLE	SEC	SECONDARY		
COMB	COMBINATION	GEN	GENERATOR	MIC	MICROPHONE	SHT	SHEET		
CMPR	COMPRESSOR	GFI	GROUND FAULT CIRCUIT	MIN	MINIMUM	SIM	SIMILAR		
CONN	CONNECTION		INTERRUPTER	MISC	MISCELLANEOUS	S/N	SOLID NEUTRAL		
CONST	CONSTRUCTION	GFP	GROUND FAULT PROTECTOR	MLO	MAIN LUGS ONLY	SPEC	SPECIFICATION	_	ANGLE
CONT	CONTINUATION OR CONTINUOUS	GND	GROUND	MMS	MANUAL MOTOR STARTER	SPKR	SPEAKER	@	AT
	CONTRACTOR	GRS	GALVANIZED RIGID STEEL	MOA	MULTIOUTLET ASSEMBLY	SP	SPARE	ă	DELTA
CONV	CONVECTOR		(CONDUIT)	MSP	MOTOR STARTER PANELBOARD	SR	SURFACE RACEWAY	'	FEET
CP	CIRCULATING PUMP	GYP BD	GYPSUM BOARD	MSBD	MAIN SWITCHBOARD	SS	STAINLESS STEEL	"	INCHES
CRT	CATHODE-RAY TUBE			MT	MOUNT	SSW	SELECTOR SWITCH	#	NUMBER
CT	CURRENT TRANSFORMER	HOA	HANDS-OFF-AUTOMATIC	MT.C	EMPTY CONDUIT	S/S	STOP/START PUSHBUTTONS	, Ø	PHASE
CTR	CENTER		SWITCH	MTS	MANUAL TRANSFER SWITCH	STA	STATION	č	CENTER LINE
CU	COPPER	HORI7	HORIZONTAL	MTR	MOTOR, MOTORIZED	STD	STANDARD	P	PLATE
00	JOIN LIN	TONZ		WITIN		510		I	



_ _ _ _ _ _ _ _ _ _



	SPECI VICE DESCRIPTION NO. 1 DESCRIPTION R "X2" (PANEL L R "X1" (PANEL L)	N/NAMEPLATE I/NAMEPLATE .A, AV & SP)		NOTES
ECTION ANFORMEF ANSFORME VEL "H4" VEL "H5" VEL "H95" VEL "H96" TORS BCU TORS BCU TORS AHU Ce RGE SUPRI	VICE DESCRIPTION NO. 1 DESCRIPTION R "X2" (PANEL L ER "X1" (PANEL G111 I-G117 I-G117 I-13 ESSION	N/NAMEPLATE I/NAMEPLATE .A, AV & SP)		NOTES
ECTION ANFORMEF ANSFORME VEL "H4" VEL "H5" VEL "H95" VEL "H96" TORS BCU TORS BCU TORS AHU Ce RGE SUPRI	DESCRIPTION NO. 1 DESCRIPTION R "X2" (PANEL L ER "X1" (PANEL -G111 -G117 -13 ESSION	I/NAMEPLATE .A, AV & SP)		NOTES
ANFORMEF ANSFORME VEL "H4" VEL "H5" VEL "HP5" VEL "HP6" TORS BCU TORS BCU TORS AHU Ce RGE SUPRI	NO. 1 DESCRIPTION R "X2" (PANEL L ER "X1" (PANEL I-G111 I-G117 I-G117 I-13 ESSION	I/NAMEPLATE .A, AV & SP)		NOTES
ANFORMEF ANSFORME VEL "H4" VEL "H5" VEL "HP5" VEL "HP6" TORS BCU TORS BCU TORS AHU Ce RGE SUPRI	DESCRIPTION R "X2" (PANEL L ER "X1" (PANEL I-G111 I-G117 I-13 ESSION	A, AV & SP)		NOTES
ANSFORME NEL "H4" NEL "H5" NEL "H95" NEL "H96" TORS BCU TORS BCU TORS AHU Ce RGE SUPRI	R "X2" (PANEL L ER "X1" (PANEL I-G111 I-G117 I-13 ESSION	A, AV & SP)		NOTES
ANSFORME NEL "H4" NEL "H5" NEL "H95" NEL "H96" TORS BCU TORS BCU TORS AHU Ce RGE SUPRI	ER "X1" (PANEL I-G111 I-G117 I-13 ESSION			
ANSFORME NEL "H4" NEL "H5" NEL "H95" NEL "H96" TORS BCU TORS BCU TORS AHU Ce RGE SUPRI	ER "X1" (PANEL I-G111 I-G117 I-13 ESSION			
NEL "H4" NEL "H5" NEL "HP5" NEL "HP6" TORS BCU TORS BCU TORS AHU Ce RGE SUPRI	I-G111 I-G117 I-13 ESSION			
NEL "HP5" NEL "HP6" TORS BCU TORS BCU TORS AHU Ce RGE SUPRI	I-G117 I-13 ESSION			
NEL "HP6" TORS BCU TORS BCU TORS AHU ce RGE SUPRI	I-G117 I-13 ESSION			
TORS BCU TORS BCU TORS AHU ce RGE SUPRI	I-G117 I-13 ESSION			
TORS BCU TORS AHU ce RGE SUPRI	I-G117 I-13 ESSION			
TORS AHU ce RGE SUPRI	ESSION			
ce RGE SUPRI	ESSION			
RGE SUPRI				
AD SUM				
			000	
	DISTR	RIBUTION LOAD	CON	n. load
		MDP-A	221	906 VA
DEMAND	ESTIMATED	PANEL TOT	TALS	
0.00%	0 VA			
100.00%	103675 VA			
56.84%	41558 VA			
125.00%	47297 VA			
100.00%	8604 VA	CONN. LOAD:	22190	06 VA
		EST. DEMAND		
1	0.00% 00.00% 56.84% 25.00%	0.00% 0 VA 00.00% 103675 VA 56.84% 41558 VA 25.00% 47297 VA	0.00% 0 VA 00.00% 103675 VA 56.84% 41558 VA 25.00% 47297 VA 00.00% 8604 VA CONN. LOAD: EST. DEMAND LOAD:	EMAND ESTIMATED PANEL TOTALS 0.00% 0 VA 00.00% 00.00% 103675 VA 00.00% 56.84% 41558 VA 00.00% 25.00% 47297 VA 00.00%

			PA	NEL	BOA	ARD:	H4							
LOCATION: LO	BBY G10	2A			V		: 480Y/2	77 V. 3 ø 4	4 W.					
MOUNTING: SU	RFACE N	IEMA 1			A.I.C.	RATING:	14.000	AMPS SY	MMETR	RICAL				
MAIN DEVICE: 100						PECIAL								
BUS AMPS: 100					-									
							_							
LOAD DESCRIPTION	BKR	POLES			Α		B	C	;	СКТ	POLES	BKR		AD DESCRIPTION
LITES CATWALK	20 A	1	1	1.1	1.6					2	1	20 A		CATWALK
LITES CATWALK	20 A	1	3			1.6	1.1			4	1	20 A		CATWALK
LITES CATWALK	20 A	1	5					0.9	0.9	6	1	20 A		CATWALK
LITES CATWALK	20 A	1	7	1.8	1.2					8	1	20 A		IGHT LOCK G102
LITES STAIR, STORAGE,	20 A	1	9			0.8	1.6			10	1	20 A		SCENE SHOP G111
LITES LOBBY G118	20 A	1	11					1.0	0.0	12	3	15 A	EBDK S	SENSE
ITES THEATRE STOR. G104	20 A	1	13	0.6	0.0					14				
LITES STAGE G106	20 A	1	15			0.3	0.0			16				
TES THEATER G105 20 A	20 A	1	17					0.4	3.9	18	1	20 A	LITES (COVE LED STRIPS
			19							20				
			21							22				
			23							24				
			25							26				
			27							28				
			29							30				
		TOTAL L	OAD:	6	kVA	5 k	νA	7 k	VA 🛛					
-		TOTAL A	MPS:	2	3 A	19	A (26	A	1				
OAD CLASSIFICATION		CONNE	CTED		DEMA		EST	IMATED				PANEL	TOTALS	
_ighting		0 V.	A		0.00	%	(0 VA						
ITES		18320	VA		125.00)%	22	901 VA			CO	NECTE	D LOAD:	18320 VA
											ESTIN	IATED D	EMAND:	22901 VA
											CONNEG	CTED CU	RRENT:	22 A
											EST. DEM	IAND CU	RRENT:	28 A

				NEI	BOA									
LOCATION: MI MOUNTING: SU MAIN DEVICE: 10 BUS AMPS: 10	JRFACE I 0 A MLO		G207		A.I.C.		: 10,000	77 V. 3 ø AMPS S`		RICAL				
LOAD DESCRIPTION	BKR	POLES	скт		A		В		C	скт	POLES	BKR	LO	AD DESCRIPTIO
LITES COOR. E106	20 A	1	1	3.9	2.0					2	1	20 A	LITES /	AUX. GYM F102
LITES LOBBY F101	20 A	1	3			2.1	2.2			4	1	20 A	LITES I	MECH. PH G207
LITES AUX. GYM F102	20 A	1	5					1.5	1.1	6	1	20 A	LITES I	OBBY F101
LITES CONCESSIONS E101	20 A	1	7	0.6	2.2					8	1	20 A	LITES I	TINESS ROOM E
LITES MECH PH G207	20 A	1	9			0.7				10				
			11							12				
			13							14				
			15							16				
			17							18				
			19							20				
			21							22				
			23							24				
			25							26				
			27							28				
			29							30				
		TOTAL L	OAD:		kVA	51	κVA	3 k	XΑ					
		TOTAL A	MPS:	3	33 A	19	9 A	10	A					
LOAD CLASSIFICATION		CONNE	CTED		DEMA	ND	EST	IMATED				PANEL	TOTALS	
Lighting		0 V.	A		0.00	%	(0 VA						
LITES	5	VA		125.00	0%	20	551 VA			CO	NNECTED	LOAD:	16441 VA	
											ESTIN		EMAND:	20551 VA
											-	CTED CU		
											EST. DEN			

			PA	NEL	BOA	ARD:	HP	j						
LOCATION: N	IECH/STOF	R. E105			VC	OLTAGE:	480Y/27	77 V. 3 ø 4	W.					
MOUNTING: S	URFACE N	IEMA 1			A.I.C.	RATING:	14,000	AMPS SY	MMETF	RICAL				
MAIN DEVICE: 1	00 A MLO				S	PECIAL	:							
BUS AMPS: 1	00 AMPS													
LOAD DESCRIPTION	BKR	POLES	СКТ		A		В	с		скт	POLES	BKR	10	AD DESCRIPTION
ERV-1 - SUPPLY FANS	40 A	3	1	6.1	4.0					2	3	30 A		EXHAUST FANS
-			3	••••		6.1	4.0			4				
			5					6.1	4.0	6				
MOTORS P-2 & P-3	15 A	3	7	0.8	0.0					8	3	15 A	Spare	
			9			0.8	0.0			10				
			11					0.8	0.0	12				
Space		3	13							14	3		Space	
			15							16				
			17							18				
Space		3	19							20	3		Space	
			21							22				
			23							24				
			25							26				
			27							28				
		TOTAL L	29	11	kVA	11	kVA	11 k	\	30				
		TOTAL L			9 A	_) A	39		-				
LOAD CLASSIFICATION				3				IMATED	A			DANEL	TOTALS	
MOTORS		32333			100.00			333 VA	_			FANEL	TUTALS	
MOTORS		32333	VA		100.00	J%0	32.	555 VA				NEATE		00000 \ / A
														32333 VA
														32333 VA
											CONNEC			
											EST. DEN	IAND CU	RRENT:	39 A
NOTES:														

Location: M Mounting: S Main Device: 1 Bus Amps: 1	SURFACE N 00 A MLO	THOUSE		NEI		VC A.I.C. I		: 14,000	5 77 V. 3 ø 4 AMPS SY		RICAL	
LOAD DESCRIPTION	BKR	POLES	скт		Α			В	с		скт	POLES
MOTORS AHU-10	60 A	3	1	7.5	T	2.1					2	3
			3				7.5	2.1			4	
			5						7.5	2.1	6	
MOTORS AHU-12	25 A	3	7	3.9		2.1					8	3
			9				3.9	2.1			10	
			11						3.9	2.1	12	
Spare	20 A	3	13	0.0		0.0					14	3
			15				0.0	0.0			16	
			17						0.0	0.0	18	
Space		3	19								20	3
			21								22	
			23								24	
			25								26	
			27								28	
			29								30	
		TOTAL L	OAD:	16	6 kV	Ά	16	kVA	16 k	VA		
		TOTAL A	MPS:		56 A	۱	56	6 A	56	A	1	
LOAD CLASSIFICATION		CONNE	CTED			DEMA	ND	EST	IMATED			
MOTORS		46722	VA			100.00	%	46	722 VA			
-			-									CO
												ESTIN
												CONNE
												EST. DEN
NOTES:												

											E21
											CONN
											EST. DE
NOTES:											
			PΔ	NFI	BOA						
LOCATION: F								20 V. 3 ø			
MOUNTING: S	SURFACE N	VEMA1			A.I.C.	RATING	: 10,000	AMPS SY	/MMETR	RICAL	
MAIN DEVICE: 1	00 A MLO				S	PECIAL	:				
BUS AMPS: 1	00 AMPS										
LOAD DESCRIPTION	BKR	POLES	скт		Α		в	C	2	СКТ	POLES
WALK-IN FREEZER	20 A	1	1	0.4	1.0					2	2
HEAT TAPE	20 A	1	3			0.8	1.0			4	
WALK-IN FREEZER EVAP.	20 A	2	5					0.0	0.5	6	1
			7	1.0	1.9					8	3
			9				1.9			10	
			11						1.9	12	
			13							14	
			15							16	
										1 10	-

			PA	NEL	BOA	ARD:	LE1	I			
Location: F Mounting: S Main Device: 1 Bus Amps: 1	SURFACE I 00 A MLO				A.I.C.		: 10,000	20 V. 3 ø AMPS SY		RICAL	
LOAD DESCRIPTION	BKR	POLES	скт		Α		в	C	;	скт	POLE
WALK-IN FREEZER	20 A	1	1	0.4	1.0					2	2
HEAT TAPE	20 A	1	3			0.8	1.0			4	
WALK-IN FREEZER EVAP.	20 A	2	5					0.0	0.5	6	1
			7	1.0	1.9					8	3
			9				1.9			10	
			11						1.9	12	
			13							14	
			15							16	
			17							18	
			19							20	
			21							22	
			23							24	
			25							26	
			27							28	
			29							30	
			31							32	
			33							34	
			35							36	
			37							38	
			39							40	
			41							42	
		TOTAL L			kVA		κVA	2 k		4	
		TOTAL A		3	9 A		2 A	20	A		
LOAD CLASSIFICATION		CONNE	CTED		DEMA	ND	EST	IMATED			
RCPT		1671	VA		100.00)%	16	671 VA			
MOTORS		9960	VA		100.00)%	99	60 VA			
											ES
											CON
											FOT F

NOTES:

----(1)

Г	POLES	BKR	LOAD DESCRIPTION								
	3	15 A	MOTORS AHU-11								
	3	15 A	MOTORS EF-G207								
	3	15 A	Spare								
	3		Space								
	PANEL TOTALS										
	CO	NNECTED	LOAD: 46722 VA								
	ESTIN	ATED DE	MAND: 46722 VA								
	CONNE	CTED CUP	RRENT: 56 A								
	EST. DEN		RRENT: 56 A								

	скт	POLES	BKR	LO	AD DESCRIPTION
	2	2	20 A	WALK-I	N FREEZER EVAP.
	4				
).5	6	1	20 A	RCPT E	EXTERIOR
	8	3	20 A	WALK-I	N FREEZER COND.
	10				
1.9	12				
	14				
	16				
	18				
	20				
	22				
	24				
	26				
	28				
	30				
	32				
	34				
	36				
	38				
	40				
	42				
			PANEL		
		CO	11418 VA		
		ESTIN	11418 VA		
		CONNE	CTED CU	RRENT:	32 A
		EST. DEN		RRENT:	32 A

			PA	NEI	BOA	٩RD	: L10)						
Location: M Mounting: S Main Device: 2 Bus Amps: 2	URFACE I 50 A MLO				A.I.C.		: 10,000	20 V. 3 ø 4 AMPS SY		ICAL				
LOAD DESCRIPTION	BKR	POLES	СКТ		А		в	C	2	скт	POLES	BKR		AD DES
RCPT LOCKER E115	20 A	1	1	1.5	0.9				•	2	1	20 A		
RCPT OFFICE E111	20 A	1	3		0.0	0.9	1.7			4	1	20 A		OCKER
RCPT MECH/STOR. E105	20 A	1	5					0.9	0.7	6	1	20 A		ITNESS
RCPT FITNESS RM E103	20 A	1	7	0.2	0.2			-		8	1	20 A	RCPT F	ITNESS
RCPT FITNESS RM E103	20 A	1	9			0.2	0.2			10	1	20 A	RCPT F	ITNESS
RCPT FITNESS RM E103	20 A	1	11					0.2	0.2	12	1	20 A	RCPT F	ITNESS
RCPT FITNESS RM E103	20 A	1	13	0.5	0.4			-		14	1	20 A	RCPT F	ITNESS
RCPT FITNESS RM E103	20 A	1	15			0.7	0.6			16	1	15 A	MOTOF	RS ERV-
HEAT CUH-E107, E108 &	15 A	1	17					1.1	0.7	18	1	20 A	RCPT	OFFICE I
			19							20				
			21							22				
			23							24				
			25							26				
			27							28				
			29							30				
			31							32				
			33							34				
			35							36				
			37			-				38				
			39			_				40				
			41							42				
		TOTAL L			kVA		kVA	4 k		-				
		TOTAL A			31 A	-	5 A	31	A			DANEL	TOTAL O	
LOAD CLASSIFICATION		CONNE			DEMA							PANEL	TOTALS	1
RCPT		9960			100.00	-		960 VA						
MOTORS		552			100.00			52 VA					d load:	
HEAT		1080	VA		100.00	0%	10	AV 080			ESTIN	IATED D	EMAND:	11539 \
											CONNE	CTED CL	JRRENT:	32 A
											EST. DEM	IAND CL	JRRENT:	32 A
NOTES:	I			I			1		I					1

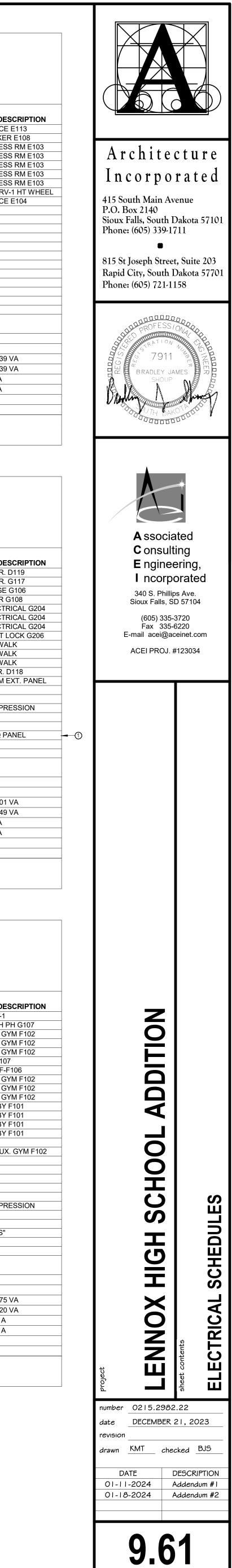
PANELBOARD: LA

LOCATION: ELECTRICAL G204 VOLTAGE: 208Y/120 V. 3 ø 4 W. MOUNTING: SURFACE NEMA1 A.I.C. RATING: 10,000 AMPS SYMMETRICAL SPECIAL: MAIN DEVICE: 400 A MAIN CB BUS AMPS: 400 AMPS

LOAD DESCRIPTION	BKR	POLES	CKT		Α		В	C	;	СКТ	POLES	BKR	LO	AD DE
RCPT ELECTRICAL G204	20 A	1	1	0.7	0.5					2	1	20 A	RCPT (COOR
RCPT CATWALK	20 A	1	3			0.4	0.9			4	1	20 A	RCPT (COOR
RCPT STOR. D118	20 A	1	5					0.4	0.7	6	1	20 A	RCPT	STAGE
RCPT MECH G119	20 A	1	7	0.4	0.5					8	1	20 A	RCPT	STAIR
RCPT STAGE G106	20 A	1	9			0.7	0.4			10	1	20 A	RCPTE	ELECT
RCPT ELECTRICAL G204	20 A	1	11					0.4	2.9	12	1	20 A	RCPT E	ELECT
RCPT ELECTRICAL G204	20 A	1	13	0.4	0.4					14	1	20 A	RCPT E	ELECT
RCPT STAIR G110	20 A	1	15			0.5	1.3			16	1	20 A	RCPTL	IGHT
LITES CATWALK	20 A	1	17					1.9	1.6	18	1	20 A	LITES (CATW
RCPT ELECTRICAL G204	20 A	1	19	0.2	1.3					20	1	20 A	RCPT (CATW
RCPT CATWALK	20 A	1	21			1.3	1.1			22	1	20 A	RCPT (CATW
ACCESS CONTROL PANELS	20 A	1	23					0.4	0.4	24	1	20 A	RCPT	STOR.
RCPT THEATRE STOR. G104	20 A	1	25	1.1	0.4					26	1	20 A	FIRE A	LARM
			27							28				
			29							30				
			31		0.0					32	3	30 A	SURGE	SUP
			33				0.0			34				
			35						0.0	36				
COMPANY SWITCH	200 A	3	37	0.0	0.0					38	3	200 A	SENSC	R IQ F
			39			0.0	0.0			40				
			41					0.0	0.0	42				
		TOTAL L	OAD:	6	kVA	61	κVA	9 k'	VA					
		TOTAL A	MPS:	4	47 A	54	4 A	72	А]				
LOAD CLASSIFICATION		CONNE	CTED		DEMA	ND	EST	IMATED				PANEL	TOTALS	
RCPT		16851	VA		79.67	%	134	426 VA						
LITES		3550	VA		125.00)%	44	38 VA			CO	NNECTE		2030
			• • •		120.00								-	
														-
											EST. DEM	IAND CU	RRENI:	49 A

PANELBOARD: L9 VOLTAGE: 208Y/120 V. 3 ø 4 W. LOCATION: MECH PENTHOUSE G207 A.I.C. RATING: 10,000 AMPS SYMMETRICAL MOUNTING: SURFACE NEMA1 SPECIAL: MAIN DEVICE: 225 A MAIN CB BUS AMPS: 225 AMPS

LOAD DESCRIPTION	BKR	POLES	СКТ		Α		В	C	;	СКТ	POLES	BKR	LOAD DESC
HEAT WHTR-1	30 A	2	1	0.5	0.3					2	1	15 A	MOTORS P-1
			3			0.5	0.5			4	1	20 A	RCPT MECH PH
RCPT AUX. GYM F102	20 A	1	5					0.9	0.7	6	1	20 A	RCPT AUX. GYN
HEAT UH-G207	15 A	1	7	0.2	0.6					8	1	20 A	RCPT AUX. GYN
RCPT AUX. GYM F102	20 A	1	9			0.7	0.5			10	1	20 A	RCPT AUX. GYN
RCPT LOBBY F101	20 A	1	11					0.7	0.5	12	1	20 A	RCPT RR F107
RCPT JAN. F106	20 A	1	13	0.7	1.2					14	1	20 A	MOTORS EF-F1
RCPT STOR. F103	20 A	1	15			0.4	0.5			16	1	20 A	RCPT AUX. GYN
RCPT AUX. GYM F102	20 A	1	17					0.7	0.7	18	1	20 A	RCPT AUX. GYN
Spare	20 A	1	19	0.0	0.5					20	1	20 A	RCPT AUX. GYN
MOTORS VESTIBULE F100	20 A	1	21			0.7	0.5			22	1	20 A	RCPT LOBBY F
RCPT LOBBY F101	20 A	1	23					0.4	0.4	24	1	20 A	RCPT LOBBY F
RCPT LOBBY F101	20 A	1	25	0.4	0.5					26	1	20 A	RCPT LOBBY F
HEAT F100A & F100B	15 A	1	27			0.2	0.9			28	1	20 A	RCPT LOBBY F
RCPT AUX. GYM-1 F102-1	20 A	1	29					0.2	0.2	30	1	20 A	RCPT
MOTORS CU-G204 & DSS-01	20 A	2	31	1.6	1.0					32	3	20 A	MOTORS AUX.
	<u> </u>		33			1.6	ملكم			34			
RCPT STOR. F103	20 A	1	35		FFFF			0.2	1.0	36			
RCPT STOR. F103	20 A	1	37	0.6	jun	m	www	uuu	y	38			
	unn	m	موومه	uu	~					40			
			41							42			
			43		0.0					44	3	30 A	SURGE SUPRES
			45				0.0			46			
Spare	20 A	1	47					0.0	0.0	48			
PANEL "L10"	100 A	3	49	3.7	7.1					50	3	100 A	PANEL "LCS"
_			51			4.2	7.3			52			
-			53					3.7	4.6	54			
				1	18 kVA	19	kVA	15 k	VA	-			
-		TOTAL A			157 A	-	64 A	121		-			
LOAD CLASSIFICATION		CONNE		L	DEMA	ND	EST	IMATED				PANEL	TOTALS
RCPT		3989	6 VA		62.53	%	249	948 VA					
MOTORS		1107	3 VA		100.00)%	110	073 VA			CO	NECTE	D LOAD: 51875 V
HEAT		2479) VA		100.00)%	24	79 VA			ESTIN	IATED D	EMAND: 37120 V
											CONNEC	CTED CU	RRENT: 144 A
											EST. DEN		RRENT: 103 A



RCPT CONCESSIONS E101 20 A 1 1 0.2 1.5 Image: control of the symbol of the s	PANELBOARD: LCS						
MAIN DEVICE: 250 AMPS SPECIAL: LOAD DESCRIPTION BKR POLES CKT A B C CKT POL RCPT CONCESSIONS E101 20 A 1 1 0.2 1.5 2 2 2 PRETZEL WARMER 20 A 1 3 1.5 1.5 1.5 2 4 4 ALL PURPOSE WARMER 20 A 1 7 1.2 1.2 0.2 0.2 6 3 RCPT CONCESSIONS E101 20 A 1 7 1.2 1.2 0.2 0.8 1							
BUS AMPS: 250 AMPS LOAD DESCRIPTION BKR POLES CKT A B C CKT PO RCPT CONCESSIONS E101 20 A 1 1 0.2 1.5 2 2 PRETZEL WARMER 20 A 1 3 1.5 1.5 4 4 ALL PURPOSE WARMER 20 A 1 5 2 1.5 4 4 ALL PURPOSE WARMER 20 A 1 7 1.2 1.5 0.2 6 7 RCPT CONCESSIONS E101 20 A 1 7 1.2 0.2 0.2 0.8 12 7 RCPT CONCESSIONS E101 20 A 1 13 0.2 0.8 12 7 RCPT CONCESSIONS E101 20 A 1 15 0.2 0.8 0.2 16 7 MOTORS CONCESSIONS 20 A 1 17 0.8 0.8 22 7 COOLER 20 A 1 25							
LOAD DESCRIPTION BKR POLES CKT A B C CKT PO RCPT CONCESSIONS E101 20 A 1 1 0.2 1.5 2							
RCPT CONCESSIONS E101 20 A 1 1 0.2 1.5 2 2 PRETZEL WARMER 20 A 1 3 1.5 1.5 1.5 4 1 ALL PURPOSE WARMER 20 A 1 5 0 1.5 0.2 6 1 RCPT CONCESSIONS E101 20 A 1 7 1.2 1.2 0.2 0.2 10 RCPT CONCESSIONS E101 20 A 1 1 0.2 0.2 0.2 0.2 10 RCPT CONCESSIONS E101 20 A 1 11 0 0.2 0.8 12 14 POPCORN MACHINE 20 A 1 15 1.5 0.2 16 14 MOTORS CONCESSIONS 20 A 1 17 0.8 0.8 0.2 18 REFRIGERATOR 20 A 1 19 0.8 1.0 0.8 0.2 24 20 COOLER 20 A 1 25 0.2 0.2 0.2 26 30 32 30 32 30 32							
RCPT CONCESSIONS E101 20 A 1 1 0.2 1.5 2 2 PRETZEL WARMER 20 A 1 3 1.5 1.5 1.5 4 1 ALL PURPOSE WARMER 20 A 1 5 0 1.5 1.5 0.2 6 1 RCPT CONCESSIONS E101 20 A 1 7 1.2 1.2 0.2 0.2 10 1 RCPT CONCESSIONS E101 20 A 1 11 0.2							
PRETZEL WARMER 20 A 1 3 1.5 1.5 4 ALL PURPOSE WARMER 20 A 1 5 1.5 1.5 0.2 6 RCPT CONCESSIONS E101 20 A 1 7 1.2 1.2 0.2 10 8 RCPT CONCESSIONS E101 20 A 1 9 0.2 0.2 10 8 14 RCPT CONCESSIONS E101 20 A 1 11 0.2 0.8 12 14 POPCORN MACHINE 20 A 1 13 0.2 0.8 14 14 POPCORN MACHINE 20 A 1 15 1.5 0.2 16 14 POPCORN MACHINE 20 A 1 17 0.8 0.8 0.2 18 REFRIGERATOR 20 A 1 19 0.8 1.0 20 20 COOLER 20 A 1 23 0.8 0.2 24 20 COOLER 20 A 1 25 0.2 0.2 26 30 32 RCPT CONCESSION	LES						
ALL PURPOSE WARMER 20 A 1 5 1.5 0.2 6 RCPT CONCESSIONS E101 20 A 1 7 1.2 1.2 8 RCPT CONCESSIONS E101 20 A 1 9 0.2 0.2 0.2 10 RCPT CONCESSIONS E101 20 A 1 13 0.2 0.8 0.2 0.8 12 RCPT CONCESSIONS E101 20 A 1 13 0.2 0.8 0.2 0.8 14 POPCORN MACHINE 20 A 1 15 1.5 0.2 16 14 MOTORS CONCESSIONS 20 A 1 17 0.8 0.8 0.2 18 REFRIGERATOR 20 A 1 19 0.8 1.0 20 20 COOLER 20 A 1 23 0.8 0.8 0.2 24 RCPT STOR. E102 20 A 1 27 0.2 0.5 30 QP 33 0 0.2 0.5 34 32 <td>1</td>	1						
RCPT CONCESSIONS E101 20 A 1 7 1.2 1.2 1.2 0.2 0.2 8 RCPT CONCESSIONS E101 20 A 1 9 0.2 0.2 0.2 0.2 10 10 RCPT CONCESSIONS E101 20 A 1 11 0.2 0.2 0.2 0.2 0.8 12 RCPT CONCESSIONS E101 20 A 1 13 0.2 0.8 14 14 POPCORN MACHINE 20 A 1 15 1.5 0.2 16 14 MOTORS CONCESSIONS 20 A 1 17 0.8 0.8 0.2 18 REFRIGERATOR 20 A 1 19 0.8 1.0 0.8 0.2 24 COOLER 20 A 1 23 0.8 0.8 0.2 24 RCPT CONCESSIONS E101 20 A 1 27 0.2 0.5 26 RCPT STOR. E102 20 A 1 27 0.2 0.5 36 32 QUA 33 33 0.2 0.5	1						
RCPT CONCESSIONS E101 20 A 1 9 0.2 0.2 10 RCPT CONCESSIONS E101 20 A 1 11 0 0.2 0.2 0.8 12 RCPT CONCESSIONS E101 20 A 1 13 0.2 0.8 0.2 0.8 14 POPCORN MACHINE 20 A 1 15 1.5 0.2 16 MOTORS CONCESSIONS 20 A 1 17 0.8 0.8 0.2 18 REFRIGERATOR 20 A 1 19 0.8 1.0 20 20 20 COOLER 20 A 1 21 0.8 0.8 0.2 24 RCPT STOR. E102 20 A 1 25 0.2 0.2 0.5 26 RCPT CONCESSIONS E101 20 A 1 27 0.2 0.5 30 32 RCPT CONCESSIONS E101 20 A 1 27 0.2 0.5 30 32 RCPT CONCESSIONS E101 20 A 1 27 0.2 0.5 36 32	1						
RCPT CONCESSIONS E101 20 A 1 11 ✓ 0 0.2 0.8 12 RCPT CONCESSIONS E101 20 A 1 13 0.2 0.8 14 16 14 14 16 16 14 14 14 16	1						
RCPT CONCESSIONS E101 20 A 1 13 0.2 0.8 14 POPCORN MACHINE 20 A 1 15 1.5 0.2 16 MOTORS CONCESSIONS 20 A 1 17 0.8 0.8 0.2 18 REFRIGERATOR 20 A 1 19 0.8 1.0 0.8 0.2 18 COOLER 20 A 1 21 0.8 0.8 0.2 24 COOLER 20 A 1 25 0.2 0.2 0.8 0.8 22 COOLER 20 A 1 25 0.2 0.2 0.8 0.2 24 RCPT CONCESSIONS E101 20 A 1 27 0.2 0.5 28 30 RCPT CONCESSIONS E101 20 A 1 27 0.2 0.5 28 30 Image: Concessions E101 20 A 1 27 0.2 0.5 34 32 Image: Concessions E101 20 A 37 Image: Concession A 34 34 34 <td< td=""><td>1</td></td<>	1						
POPCORN MACHINE 20 A 1 15 1.5 0.2 16 MOTORS CONCESSIONS 20 A 1 17 0.8 0.8 0.2 18 REFRIGERATOR 20 A 1 19 0.8 1.0 20 20 20 COOLER 20 A 1 21 0.8 0.8 0.8 22 20 COOLER 20 A 1 23 0.8 0.8 0.8 22 24 COOLER 20 A 1 25 0.2 0.2 0.8 0.8 0.2 24 RCPT STOR. E102 20 A 1 25 0.2 0.2 0.5 28 26 28 RCPT CONCESSIONS E101 20 A 1 27 0.2 0.5 30 32 30 32 34 32 34 32 34 32 34 34 34 34 36 34 38 38 40 42 40 42 40 42 40 42 40 42 40 42	1						
MOTORS CONCESSIONS 20 A 1 17 0 0.8 0.2 18 REFRIGERATOR 20 A 1 19 0.8 1.0 20 20 COOLER 20 A 1 21 0.8 0.8 0.2 18 20 COOLER 20 A 1 21 0.8 0.8 0.8 22 20 COOLER 20 A 1 23 0.8 0.8 0.2 24 22 COOLER 20 A 1 25 0.2 0.2 0.8 0.8 0.2 24 RCPT STOR. E102 20 A 1 25 0.2 0.2 0.2 26 26 RCPT CONCESSIONS E101 20 A 1 27 0.2 0.2 30 30 30 30 30 30 30 30 30 30 32 30 30 30 30 30 32 30 30 32 36 36 36 36 36 38 40 42 40 40 42	1						
REFRIGERATOR 20 A 1 19 0.8 1.0 20 20 COOLER 20 A 1 21 0.8 0.8 0.8 22 22 COOLER 20 A 1 23 0.8 0.8 0.8 0.2 24 COOLER 20 A 1 25 0.2 0.2 0.8 0.8 0.2 24 RCPT STOR. E102 20 A 1 25 0.2 0.2 0.2 26 26 RCPT CONCESSIONS E101 20 A 1 27 0.2 0.5 28 30 30 30 30 30 30 30 30 32 30 36 32 36 36 36 38 38 38 38 38 40 42 40 42 </td <td>1</td>	1						
COOLER 20 A 1 21 0.8 0.8 0.8 22 COOLER 20 A 1 23 0 0.8 0.8 0.2 24 RCPT STOR. E102 20 A 1 25 0.2 0.2 0.2 26 26 RCPT CONCESSIONS E101 20 A 1 27 0.2 0.5 28 30 COULER 31 29 0.2 0.5 30	1						
COOLER 20 A 1 23 0.8 0.8 0.2 24 RCPT STOR. E102 20 A 1 25 0.2 0.2 0.2 26 28 RCPT CONCESSIONS E101 20 A 1 27 0.2 0.2 0.5 28 28 29 29 31 0.2 0.5 32 30 32 31 33 34 34 34 34 36 34 35 37 39 38 38 38 38 38 41 39 41 42 40 42 42 TOTAL LOAD: 7 kVA 7 kVA 5 kVA 42 42 IOAD CLASSIFICATION CONNECTED DEMAND ESTIMATED V 5 kVA RCPT 17220 VA 79.04% 13610 VA 5 kVA	1						
RCPT STOR. E102 20 A 1 25 0.2 0.2 0.2 0.2 26 28 RCPT CONCESSIONS E101 20 A 1 27 0.2 0.2 0.5 28 28 30 32 32 34 32 34 32 36 34 36 36 36 36 38 38 38 36 38 38 38 38 38 36 38	1						
RCPT CONCESSIONS E101 20 A 1 27 0.2 0.2 0.5 28 30 29 31 29 31 32 32 32 33 33 33 34 32 34 35 35 36 36 36 37 39 39 38 38 41 41 40 42 TOTAL LOAD: 7 kVA 7 kVA 5 kVA TOTAL AMPS: 62 A 64 A 38 A LOAD CLASSIFICATION CONNECTED DEMAND ESTIMATED RCPT 17220 VA 79.04% 13610 VA	1						
29 31 30 30 31 31 32 32 33 33 34 34 35 35 36 36 37 39 38 38 39 39 40 42 TOTAL LOAD: 7 kVA 7 kVA 5 kVA TOTAL AMPS: 62 A 64 A 38 A LOAD CLASSIFICATION CONNECTED DEMAND ESTIMATED RCPT 17220 VA 79.04% 13610 VA	1						
31 31 32 33 33 33 35 35 37 37 39 39 41 42 TOTAL LOAD: 7 kVA 7 kVA 5 kVA 10 A 38 A 10 A 120 A 11 A 10 A 11 A 10 A	1						
33 33 33 34 35 35 36 37 37 38 39 40 41 42 TOTAL LOAD: 7 kVA 7 kVA 5 kVA 41 42 TOTAL AMPS: 62 A 62 A 64 A 38 A Interval 17220 VA 17220 VA 79.04%							
35 37 38 38 37 37 38 38 39 39 40 41 42 TOTAL LOAD: 7 kVA 7 kVA TOTAL LOAD: 7 kVA 5 kVA TOTAL AMPS: 62 A 64 A 38 A 38 A LOAD CLASSIFICATION CONNECTED DEMAND ESTIMATED RCPT 17220 VA 79.04% 13610 VA							
37 37 37 38 38 39 39 39 40 40 41 41 42 42 TOTAL LOAD: 7 kVA 7 kVA 5 kVA TOTAL AMPS: 62 A 64 A 38 A LOAD CLASSIFICATION CONNECTED DEMAND ESTIMATED RCPT 17220 VA 79.04% 13610 VA							
39 39 40 41 41 42 TOTAL LOAD: 7 kVA 7 kVA 5 kVA TOTAL AMPS: 62 A 64 A 38 A LOAD CLASSIFICATION CONNECTED DEMAND ESTIMATED RCPT 17220 VA 79.04% 13610 VA							
41 41 42 TOTAL LOAD: 7 kVA 7 kVA 5 kVA TOTAL AMPS: 62 A 64 A 38 A LOAD CLASSIFICATION CONNECTED DEMAND ESTIMATED RCPT 17220 VA 79.04% 13610 VA							
TOTAL LOAD: 7 kVA 7 kVA 5 kVA TOTAL AMPS: 62 A 64 A 38 A LOAD CLASSIFICATION CONNECTED DEMAND ESTIMATED RCPT 17220 VA 79.04% 13610 VA							
TOTAL AMPS: 62 A 64 A 38 A LOAD CLASSIFICATION CONNECTED DEMAND ESTIMATED RCPT 17220 VA 79.04% 13610 VA							
LOAD CLASSIFICATIONCONNECTEDDEMANDESTIMATEDRCPT17220 VA79.04%13610 VA							
RCPT 17220 VA 79.04% 13610 VA							
MOTORS 2208 VA 100.00% 2208 VA	CC						
	ESTI						
	NNE						
EST	. DE						
NOTES:							

			PA	NE	BOA							
LOCATION: ELECTRICAL G204 MOUNTING: SURFACE NEMA1 MAIN DEVICE: 200 A MAIN CB BUS AMPS: 200 AMPS				VOLTAGE: 208Y/120 V. 3 Ø 4 W. A.I.C. RATING: 10,000 AMPS SYMMETRICAL SPECIAL: ISOLATED GROUND BUS								
LOAD DESCRIPTION	BKR	POLES	скт		Α		3	c	;	скт	POLES	
RCPT THEATER G105	20 A	1	1	0.7	0.9					2	1	
RCPT CONTROL G205	20 A	1	3			0.2	0.4			4	1	
RCPT CONTROL G205	20 A	1	5					0.2	0.2	6	1	
RCPT CATWALK	20 A	1	7	0.2	0.2					8	1	
RCPT STAGE G106	20 A	1	9			1.6				10		
RCPT STAGE G106	20 A	1	11					0.2	1.6	12	1	
RCPT STAGE G106	20 A	1	13	0.2	0.2					14	1	
RCPT STAGE G106	20 A	1	15			0.8	0.2			16	1	
RCPT CATWALK	20 A	1	17					0.4	0.8	18	1	
Spare	20 A	1	19	0.0	0.8					20	1	
Spare	20 A	1	21			0.0	0.4			22	1	
Spare	20 A	1	23					0.0	0.0	24	1	
Spare	20 A	1	25	0.0	0.0					26	1	
RCPT BALCONY G202	20 A	1	27			0.4	0.2			28	1	
LIGHTING AUX. RACK	20 A	1	29					1.5	0.0	30	1	
Spare	20 A	1	31	0.0						32		
·			33							34		
			35							36		
COMPANY SWITCH	100 A	3	37	0.0	0.0					38	3	
			39			0.0	0.0			40		
			41					0.0	0.0	42		
		TOTAL L	OAD:	3	kVA	4 k	VA	5 k'	VA 🗸			
		TOTAL A	MPS:		25 A	34	A	40	A	1		
LOAD CLASSIFICATION		CONNE	CTED		DEMAND		ESTIMATED					
RCPT		11628	VA		93.00	%	108	814 VA				
											CO	N
											ESTIN	ΛA
											CONNE	C٦
											EST. DEM	

			PA	NEI	BOA	RD:	SP		_		
LOCATION: SO MOUNTING: SU MAIN DEVICE: 10 BUS AMPS: 10	JRFACE N)0 A MLO		G111		A.I.C.		: 10,000	20 V. 3 ø 4 AMPS SY		RICAL	
LOAD DESCRIPTION	BKR	POLES	скт		Α		в	с		скт	POLES
RCPT SCENE / STOR G111	20 A	1	1	0.5	0.5					2	1
MOTORS SCENE / STOR	20 A	1	3			0.4	0.4			4	1
MOTORS SCENE / STOR	20 A	1	5					0.4	0.9	6	1
RCPT MAKE-UP G112	20 A	1	7	0.2	0.2					8	1
RCPT MAKE-UP G112	20 A	1	9			0.7	0.7			10	1
RCPT SCENE / STOR G111	20 A	1	11					0.4	3.1	12	2
MOTORS EF-G111	15 A	1	13	0.3	3.1					14	
RCPT MAKE-UP G112	20 A	1	15			0.2	0.0			16	1
RCPT MAKE-UP G112	20 A	1	17					0.2	0.2	18	1
Spare	20 A	1	19	0.0	0.2					20	1
Spare	20 A	1	21			0.0	0.0			22	1
			23							24	
			25							26	
			27							28	
			29							30	
			31			-				32	
			33							34	
			35							36	
			37							38	
			39							40	
		TOTAL	41)//	5 10	/ ^	42	
		TOTAL L		-	kVA 15 A		KVA 9 A	5 k\ 45		-	
LOAD CLASSIFICATION		CONNE			DEMA		-	IMATED			
RCPT		5220	VA		100.00			20 VA			
MOTORS		1020	VA		100.00)%	10	20 VA			CO
LITES		20 V	Ά		125.00)%		25 VA		ESTI	
HEAT		6240 VA		100.00				6240 VA		CONNE	
											EST. DE
NOTES:											

BKR	LOAD DESCRIPTION	
20 A	HOT DOG ROLLER	
20 A	PIZZA WARMER	
20 A	RCPT CONCESSIONS E101	
20 A	RCPT CONCESSIONS E101	
20 A	RCPT CONCESSIONS E101	
20 A	REFRIGERATOR	
20 A	MOTORS CONCESSIONS	
20 A	RCPT CONCESSIONS E101	
20 A	RCPT CONCESSIONS E101	
20 A	FREEZER	
20 A	COOLER	
20 A	RCPT STOR. E102	\wedge
20 A	RCPT CONCESSIONS E101	$\sqrt{2}$
15 A	MOTORS P-4	3
15 A	MOTORS P-4	3
15 A	MOTORS P-4	3
15 A	MOTORS P ² 4	3
15 A	MOTORS P ² 4	٤
15 A	MOTORS P-4	3
15 A	MOTORS P-4	3
15 A	MOTORS P ² 4	3
	MOTORS P ² 4	3
		3
PANEL 1		3
PANEL 1	TOTALS	3
PANEL 1		3
PANEL 1	TOTALS	3
PANEL 1 NNECTED	TOTALS 0 LOAD: 19033 VA	3
PANEL 1 NNECTED MATED DE CTED CUF	TOTALS IOAD: 19033 VA MAND: 15433 VA	3
PANEL 1 NNECTED MATED DE CTED CUF	TOTALS I LOAD: 19033 VA EMAND: 15433 VA RRENT: 53 A	3

OLES	BKR	LOAD DESCRIPTION
1	20 A	RCPT CONTROL G205
1	20 A	RCPT THEATER G105
1	20 A	RCPT CONTROL G205
1	20 A	RCPT CONTROL G205
	2071	
1	20 A	RCPT STAGE G106
1	20 A	RCPT STAGE G106
1	20 A	RCPT STAGE G106
1	20 A	RCPT STAGE G106
1	20 A	RCPT STAGE G106
1	20 A	RCPT CATWALK
1	20 A	Spare
1	20 A	Spare
1	20 A	RCPT MAKE-UP G112
1	20 A	ERP CONTROL
3	30 A	SURGE SUPRESSION
	PANEL	TOTALS

CONNECTED LOAD:	11628 VA
STIMATED DEMAND:	10814 VA
NNECTED CURRENT:	32 A
DEMAND CURRENT:	30 A

BKR	LOAD DESCRIPTION
20 A	RCPT SCENE / STOR G111
20 A	RCPT SCENE / STOR G111
20 A	RCPT DRESS G115
20 A	RCPT MAKE-UP G112
20 A	RCPT DRESS G113
40 A	HEAT WHTR-2
20 A	LITES MAKE-UP G112
20 A	RCPT MAKE-UP G112
20 A	RCPT MAKE-UP G112
20 A	Spare
	<u> </u>
	1
PANEL 1	TOTALS
NECTED	LOAD: 12311 VA

NECTED LOAD:	12311 VA
ATED DEMAND:	12316 VA
TED CURRENT:	34 A
AND CURRENT:	34 A

	DESCRIPTION	ĸw	HP	MCA	MOCP	VOLTS	PH	NOTES
1	AHU-10	21.5	20	33.8	60/3	480	3	6
2	AHU-11	6.0	5	9.5	15/3	480	3	6
3	AHU-12	11.1	10	17.5	25/3	480	3	6
4	AHU-13	8.7	7.5	13.8	20/3	480	3	6
5	BCU-G111	2.7	2	4.3	15/3	480	3	4
6	BCU-G117	2.7	2	4.3	15/3	480	3	4
9	EF-F106	1.1	1/2	12.3	20/1	120	1	3
10	EF-G111	0.3	1/15	3.1	15/1	120	1	3
11	ERV - SUPPLY FANS	17.5	(2) 7.5	-	40/3	480	3	2
12	ERV - EXHAUST FANS	12.1	(2) 5	-	30/3	480	3	2
13	ERV - WHEEL	0.8	1/2	1.3	15/1	120	1	1
14	CUH-E107	0.3	1/10	3.1	15/1	120	1	1
15	CUH-E108	0.3	1/10	3.1	15/1	120	1	1
16	CUH-E115	0.3	1/10	3.1	15/1	120	1	1
17	CUH-F100A	0.3	1/10	3.1	15/1	120	1	1
18	CUH-F100B	0.3	1/10	3.1	15/1	120	1	1
19	UH-G207	0.1	16w	3.1	15/1	120	1	3
20	WHTR-1	4.5	1	27.0	30/2	208	1	4
21	WHTR-2	6.24	1	37.5	40/2	208	1	4
22	RECIRC PUMP P-1	0.3	1/12	3.1	15/1	115	1	3
23	SEWAGE PUMP P-2	2.1	1 1/2	3.3	15/3	480	3	7
24	SEWAGE PUMP P-3	2.1	1 1/2	3.3	15/3	480	3	7
25	DSS-G204	0.4	/	/	/	208	1	fed from CU-G20
26	CU-G204	3.2	/	19.5	20/2	208	1	4
27	CH-1	267.9		532.0	600/3	480	3	reconnect to existing
28	IN FLOOR HEAT PUMP P-4	0.5	1/6	5.5	15/1	115	1	3
29	EXHAUST FAN EF-G207	6	5	9.5	20/3	480	3	6

NOTES:

1. PROVIDE A SINGLE POINT POWER CONNECTION. DISCONNECT AND CONTROL BY MECHANICAL CONTRACTOR (MC).

2. INTERLOCK WITH FIRE ALARM SYSTEM FOR SHUTDOWN UPON ALARM. PROVIDE DUCT SMOKE DETECTOR(S) IN RETURN DUCTWORK AT ACCESSIBLE LOCATION.

3. PROVIDE A MANUAL MOTOR STARTER DISCONNECT SWITCH. CONTROL BY MC.

4. PROVIDE A NON-FUSED DISCONNECT SWITCH. CONTROL BY MC.

5. PROVIDE A PILOT LIGHT SWITCH FOR CONTROL. DISCONNECT BY MC.

FLOAT SWITCHES. COORDINATE INSTALLATION WITH MC.

6. PROVIDE CONNECTION TO VFD/DISCONNECT AND MOTOR. VFD/DISCONNECT AND CONTROL BY MC.

7. PROVIDE POWER CONNECTION TO CONTROL PANEL/DISCONNECT AND CONNECTION TO PUMP(S) AND

TYPE	ct Name: LENN MFR.	NUMBER	LAMPS	VOLTS	WATTS	DESCRIPTION
A	COLUMBIA METALUX LITHONIA	EQUAL 24CGTS-NUV EQUAL	LED/4000K	277	51	LED, 2'X4' RECESSED FLAT PANEL, BACKLIT, SELECTABLE
AE	COLUMBIA METALUX	EQUAL 24CGTS-NUV-EL14W	LED/4000K	277	51	SAME AS TYPE "A" EXCEPT EMERGENCY BACKUP.
A1	LITHONIA COLUMBIA METALUX	EQUAL EQUAL 24CGTS-NUV	LED/4000K	277	51	SAME AS TYPE "A" EXCEPT SET TO 4800 LUMENS/40K.
A1E	LITHONIA COLUMBIA METALUX	EQUAL EQUAL 24CGTS-NUV-EL14W	LED/4000K	277	51	SAME AS TYPE "A1" EXCEPT EMERGENCY BACKUP.
A4	LITHONIA COLUMBIA METALUX	EQUAL EQUAL 14CGTS-NUV	LED/4000K	277	41	LED, 1"X4' RECESSED FLAT PANEL, BACKLIT, SELECTABLE
	LITHONIA COLUMBIA DAY-BRITE	EQUAL EQUAL OWL-4-50L-840-UNV	LED/4000K	277	53	LUMENS AND COLOR TEMP. SET TO 4300 LUMENS/40K.
	METALUX COLUMBIA DAY-BRITE	EQUAL EQUAL OWL-4-50L-840-UNV-EMLED	LED/4000K	277	53	APPROXIMATELY 5000 LUMENS.
	METALUX LITHONIA	EQUAL				
	DAY-BRITE LUMAX LITHONIA	FSI-4-55L-840-UNV-DACHXX	LED/4000K	277	55	LED, INDUSTRIAL FIXTURE, CABLE HUNG, FROSTED ACRYLIC DIFFUSER, APPROXIMATELY 5000 LUMENS.
DE	DAY-BRITE LUMAX LITHONIA	FSI-4-55L-840-UNV-DACHXX-EMLED	LED/4000K	277	55	SAME AS TYPE "D" EXCEPT EMERGENCY BACKUP.
D2	DAY-BRITE LUMAX LITHONIA	FSI-4-55L-840-UNV	LED/4000K	277	48	SAME AS TYPE "D" EXCEPT WALL MOUNTED.
D2E	DAY-BRITE LUMAX SURE-LITES	FSI-4-55L-840-UNV-EMLED EQUAL	LED/4000K	277	48	SAME AS TYPE "D2" EXCEPT EMERGENCY BACKUP.
E	DUAL-LITE LIGHTALARMS	SESRBNE-I EQUAL EQUAL	INCLUDED	277	4	WITH BRUSHED ALUMINUM FACE, SELF-TEST/DIAGNOSTICS, DIRECTIONAL ARROWS AND MOUNTING AS INDICATED.
EB	SURE-LITES DUAL-LITE LIGHTALARMS	SESGBE-I EQUAL	INCLUDED	277	4	SAME AS TYPE "E" EXCEPT GREEN LETTERS AND BLACK FACE.
E1	SURE-LITES DUAL-LITE LIGHTALARMS	EQUAL SEDRBNE-I EQUAL	INCLUDED	277	4	SAME AS TYPE "E" EXCEPT DOUBLE FACE.
E2	EMERGI-LITE DUAL-LITE SURE-LITES	LZ2-I	INCLUDED	277	4	EMERGENCY LIGHTING UNIT, WHITE THERMO- PLASTIC HOUSING.
E2B	EMERGI-LITE DUAL-LITE SURE-LITES	LZ2-I	INCLUDED	277	4	EMERGENCY LIGHTING UNIT, WHITE THERMO- PLASTIC HOUSING.
E3	DUAL-LITE EMERGI-LITE	WPR612MR2LB-ADNA	INCLUDED	277	4	LED EXIT/EMERGENCY TANDEM UNIT, SINGLE FACE, RED LETTERS, WHITE THERMOPLASTIC HOUSING, DIR. ARROWS AND
	LIGHTALARMS MULE DUAL-LITE		No		-	MOUNTING AS INDICATED, SELF-TESTING/DIAGNOSTICS, HIGH OUTPUT LAMPS.
	EMERGI-LITE LIGHTALARMS MULE	WPR624M1R2LB-ADNA	INCLUDED	277	5	SAME AS TYPE "E3" EXCEPT REMOTE CAPACITY.
	DUAL-LITE EMERGI-LITE LIGHTALARMS	BZ-LUX-DC	INCLUDED	DC	8	LED ARCHITECTURAL LOW PROFILE EXTERIOR REMOTE LUMINAIRE, BRONZE FINISH.
E6	MULE ASTRALITE EMERGI-LITE	BZ-LUX-SD-CW	INCLUDED	277	20	LED ARCHITECTURAL LOW PROFILE EXTERIOR EMERGENCY
	LIGHTALARMS ELITE STONCO	VWXL-14-NW-G1-8	LED/4000K	120	60	LUMINAIRE, BRONZE FINISH.
	HUBBELL					LEXAN GLOBE, 60 WATT MAX WATTAGE LABEL.
H			LED/4000K LED/3500K	277	25	LED, 4" RECESSED ROUND DOWNLIGHT, MEDIUM DISTRIBUTION, APPROXIMATELY 2000 LUMENS.
HE	LITHONIA	LDN4-AL02-SWW1-L04-AR-LD-WD-MVOLT-UG2-EMG-LED-10	LED/4000K LED/3500K	277	25	SANE AS TYPE H EXCEPT EMERGENCY LED (EMG-LED-10)
HC	LITHONIA	LDN4-AL02-SWW1-L04-AR-LD-WD-MVOLT-UG2	LED/4000K	277	25	SAME AS TYPE H EXCEPT IC RATED, DAMP LOCATION RATED.
H1	LITHONIA	LDN4-AL03-SWW1-L04-AR-LD-WD-MVOLT-UG2	LED/4000K LED/3500K	277	38	SAME AS TYPE H EXCEPT APPROXIMATELY 2500 LUMENS
H1E	LITHONIA	LDN4-AL03-SWW1-L04-AR-LD-WD-MVOLT-UG2-EMG-LED-10	LED/4000K LED/3500K	277	38	SANE AS TYPE H1 EXCEPT EMERGENCY LED (EMG-LED-10)
L		DSXFLED P1 40K FL MVOLT THK DBLXD	LED/4000K	277	30	LED FLOODLIGHT, BLACK FINISH, APPROXIMATELY 3000 LUMENS, MOUNT TO BOTTOM OF JOIST.
М	COLUMBIA DAY-BRITE METALUX	EQUAL FBY24L840-UNV-LFA-FBY-WG-HCH10-VHOOK EQUAL	LED/4000K	277	180	LED, HIGH-BAY, APPROXIMATELY 24,000 LUMENS.
N#	OMNILIGHT	NE03-35-SO-XX	LED/3500K	277		LED STRIP LIGHT, APPROXIMATELY 180 LUMENS/FT, 0-10V DIMMING.
Ρ	LITHONIA	LDN8CYL 40/100 L08 AR LSS MVOLT GZ10 ACC ???	LED/4000K	277		LED, 8" CYLINDER, AIRCRAFT CABLE AND CORD HUNG, BLACK FINISH, WIDE DIST., APPROXIMATELY 10,000 LUMENS.
P1	LITHONIA	LDN8CYL 40/60 L08 AR LSS MVOLT GZ10 ACC ???	LED/4000K	277	73	SAME AS TYPE "P" EXCEPT APPROXIMATELY 6000 LUMENS.
P2	LITHONIA	LDN8CYL 40/50 L08 AR LSS MVOLT GZ10 ACC ???	LED/4000K	277	62	SAME AS TYPE "P" EXCEPT APPROXIMATELY 5000 LUMENS.
R	AIREY - THOMPSON	320812-330470-220001	LED/4000K	120	120	DECORATIVE STRIP LIGHT ABOVE MIRROR - 8' LONG WITH ONE LAMPHOLDER EVERY 12". SATIN ALUM. FINISH. PROVIDE LAMP GUARD FOR EACH BULB. PROVIDE 15-WATT LED LAMPS.
S	GOTHAM	EV06SH 40/25 DFR SMO MVOLT EZ1	LED/4000K	277	24.7	SHOWER LED WITH SMOOTH LENS. APPROXIMATELY 2500LU.
SE	GOTHAM	EV06SH 40/25 DFR SMO MVOLT EZ1 ELR	LED/4000K	277	24.7	SAME AS TYPE S EXCEPT EMERGENCY BATTERY.
Т	LITHONIA	LDN8CYL 35/80 L08 AR LSS MVOLT GZ1% ACC DBL	LED/3500K	277	92.1	LED, CYLINDER PENDANT, AIRCRAFT CABLE AND CORD HUNG BLACK FINISH, WIDE DISTRIBUTION, APP. 8000 LUMENS, 0-10V (1%) DRIVER CONTROLLED BY ETC ECHO RELAY PANEL.
TW	LITHONIA	LDN8CYL 35/60 L08 AR LSS MVOLT GZ1% WM DBL	LED/3500K	277	92.1	SAME AS TYPE T EXCEPT WALL MOUNTED TO SIDE OF CATWALK, COORDINATE INSTALLATION WITH GC.
T1	LITHONA	LDN8CYL 35/100 L08 AR LSS MVOLT GZ1% ACC DBL	LED/3500K	277	119	SAME AS TYPE T EXCEPT APPROXIMATELY 9800 LUMENS
T1W	LITHONIA	LDN8CYL 35/100 L08 AR LSS MVOLT GZ1% WM DBL	LED/3500K	277	119	SAME AS TYPE T1 EXCEPT WALL MOUNTED TO SIDE OF CATWALI COORDINATE INSTALLATION WITH GC.
T2	LITHONA	LDN8CYL 35/60 L08 AR LSS MVOLT GZ10 PM DBL	LED/3500K	277	73	SAME AS TYPE "T" EXCEPT APPROXIMATELY 6000 LUMENS.
ТА	COLE	L158-HO BLK -BLU 277V	LED/BLUE	277	4	LED STEP LIGHT - BLACK FACEPLATE WITH BLUE LED'S
TB1	COLE	L2156-HO BLK -BLU 277V	LED/BLUE	277	10	LED STEP LIGHT - BLACK FACEPLATE WITH BLUE LED'S
тс	AQUARII	RHEOS - RGBW (WHITE AT 2700K) 90CRI 9000LU	LED/RGB	277	140	LED PENDANT RGBW - BLACK FINISH - DMX CONTROL. PROVIDE WALL BRACKET. WIDE BEAM ANGLE.
TS	ALUZ	A7 ZABA DUO 4" 0-10V-B-A-SLC-XX (LENGTH AS REQUIRED)	LED	277	.75W/FT	UP/DN STEP LIGHT WITH BLUE LED UP AND AMBER LED DOWN PROVIDE POWER SUPPLY AND ALL MOUNTING ACCESSORIES
V	FAIL-SAFE ECLIPSE KENALL	EQUAL 574-SPL-50W-EBU-4K-WH EQUAL	LED/4000K	277	102	INSTALL ABOVE MIRROR.
VE	KENALL FAIL-SAFE ECLIPSE KENALL	EQUAL EQUAL 574-SPL-50W-EBU-4K-WH-RCNP12W EQUAL	LED/4000K	277	104	SAME AS TYPE "V" EXCEPT WITH EM BATTERY
Y	LITHONIA	EQUAL WDGE2-LED-P5-40K-70CRI-R3-MVOLT-XXXXX	LED/4000K	277	50	LED, EXTERIOR BUILDING MOUNTED WEDGE FIXTURE, APPROX.
Y1	LITHONIA	WDGE3-LED-P4-40K-70CRI-R3-MVOLT-XXXXX	LED/4000K	277	140	6000 LUMENS, FINISH BY ARCHITECT. LED, EXTERIOR BUILDING MOUNTED WEDGE FIXTURE, BRONZE FINISH, APPROXIMATELY 12000 LUMENS.
Y2	LITHONIA	WDGE3-LED-P4-40K-70CRI-R4-MVOLT-XXXXX	LED/4000K	277	140	BRONZE FINISH, APPROXIMATELY 12000 LUMENS. SAME AS TYPE "Y1" EXCEPT TYPE IV DISTRIBUTION.
z	KENALL	MLHA848-R-MW-PP-45L40K DCC DV	LED/4000K	277	49	HIGH ABUSE SURFACE LED FOR LOCKER ROOM
ZE	KENALL	MLHA848-R-MW-PP-45L40K DCC DV	LED/4000K	277	49	SAME AS TYPE "Z" EXCEPT WITH EL BATTERY PACK.
			1	1		

1. PROVIDE CABLE LENGTHS AS REQUIRED FOR MOUNTING AT HEIGHTS INDICATED ON THE DRAWINGS.

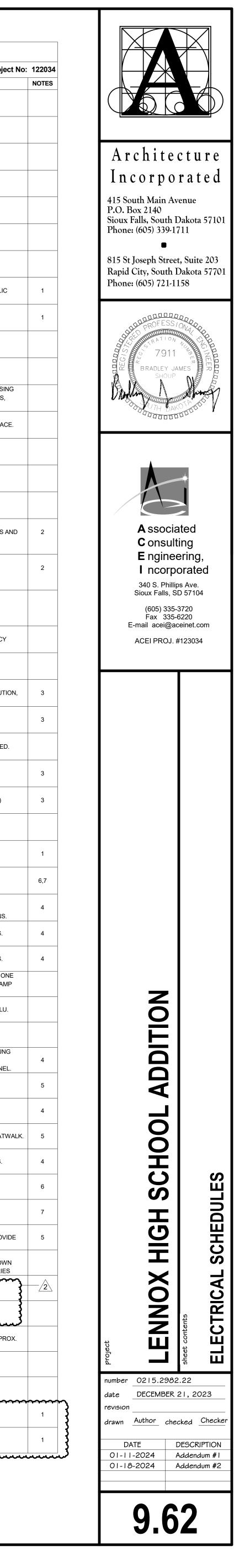
NOTES:

2. PROVIDE WIRE GUARD WHERE SHOWN ON THE LIGHTING PLANS.

LUMINAIRES WITH THE AUDITORIUM SHALL BE SET TO 3500 DEGREE K COLOR TEMPERATURE.
 PROVIDE CABLE LENGTHS AS REQUIRED FOR MOUNTING HEIGHTS SHOWN ON DRAWINGS. SEE ELEVATIONS.

5. MOUNT FIXTURE ON SIDE OF CATWALK AT LOCATIONS AND HEIGHTS (BOTTOM LEVEL WITH BOTTOM OF CATWALK) AS DIRECTED BY THE A/E.

PROVIDE ALL NECESSARY POWER SUPPLIES, MOUNTING CHANNELS, POWER CONNECTORS, AND END CAPS AS REQUIRED FOR INSTALLATION. 0-10V DIMMING.
 NUMBER ON FLOOR PLANS INDICATES APPROXIMATE LENGTH. SEE ARCHITECTURAL ELEVATIONS FOR LOCATIONS AND LENGTHS.



GENERAL NOTES - AVL Plans Overall:

- maintaining the original conceptual intent of the AV diagrams as much as possible.
- the indicated floor, wall or ceiling locations.
- and/or Reach Communications.
- shown in these plans are for AV purposes only.
- power distribution sizing, by Electrical Consultant or Contractor.
- circuits should be added and located accordingly, per code and as determined by others.
- & installed by the Electrical Contractor, unless explicitly indicated otherwise.
- appropritely-sized pull box. AV contractor needs to approve any variance to this specification. Conduit used shall be EMT.
- that all joints and couplings are installed according to proper workmanship. A nylon pull line must be installed in all AV conduits, unless approved otherwise.
- similar method.
- especially critical for non-metallic conduits.
- metal conduits and metal boxes have a bonding path to Earth Ground.
- AVL Contractor except as indicated specifically otherwise in these drawings.
- Contractor.
- Contractor, to AV Contractor.

Lennox School District

Lennox High School Addition

Audio - Video - Lighting

A. Design Responsibility: For AC Electrical Power sources, panels, conduits, wiring and related, all technical details including size, routing, etc. are responsibility of Electrical Designer and/or Electrical Contractor. They must verify compliance with local codes & proper design practice, and make any modifications needed for compliance, while

B. AVL Equipment Schedule: Each AVL layout sheet includes a schedule for the AVL Equipment that appplies to

C. Locations & Placement: Electrical Contractor must verify all locations, positions, & mounting heights with Owner

D. Tech Power for AV: The TP (Technical Power) and LP (theatrical Lighting Power) locations and requirements

E. Non-Tech Power: GP receptacles, as indicated, are dedicated for AV equiment that can be powered by the nearest general power circuit. We include these power requirements, when necessary, to aid in switch gear and

F. Convenience Electrical Power: Not Shown. Convenience power is for general use, and additional outlets &

G.AV Conduits & Boxes - Materials & Installation Responsibility: All such items in these diagrams must be supplied

H. Conduit Size: Low-voltage conduit runs shall be EMT, and sized at or above the size specified in these drawings. I. Conduit Bends & Distance: Conduit runs shall not have more than 360 degrees of bends, per code, without an

J. AV Conduits Condition & Pull String: Electrical Contractor is responsible to verify that all AV conduits are free from debris & water, are open through their entire run such that they can accommodate their standard fill, and

K. Wire Protection at Stubs & Sleeves: All Conduit ends & terminations must be finished. Stubs & sleeves must be fitted with bushings to protect wiring insulation & cable jackets, e.g. Arlington EMTxxx, white nylon bushing, or

L. Conduit Separation: Wherever running parallel, AV conduits shall be separated by 2-ft, or as close to this as practical, from electrical power conduits, and shall cross at 90 degree angles, to avoid signal interference. This is

M.Bonding: Bond metal enclosures for AV, all Device boxes & J-Boxes, etc. to Earth Ground, and verify all AV

N. Power-limited Cabling: All power-limited and signal cabling for AVL systems is supplied, installed & terminated by

EXCEPTION - It is typical that 0-10v control cables, for House Lighting fixtures, be installed by the Electrical

O. Fire Barrier Caulk: Where fire caulk is required per code & AHJ, for signal cabling sleeve penetrating a fire-rated wall or floor, approved fire-caulk product will be provided or specified by General Contractor or Electrical

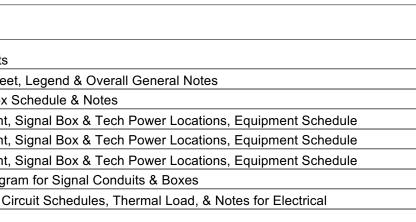
P. Atmospheric Effects Devices / Impact on Fire Detection: Fire detection system is By Others, and must be compatible with the use of atmospheric effect. Owner expects that atmospheric effects (e.g. Hazer, Fogger, "Smoke Machine".) devices will be used in the room, either more immediately, or in the future, or for special events. Fire detection systems must be designed to accommodate this usage without triggering false alarms. For example, unless only individually heat-activated sprinkler heads are in use, a multi-criteria fire detection system suitable for the purpose should be considered, rather than smoke detectors based on single criteria such as ionization, photoelectric sensing, or reflected light beam sensing. Smoke detectors may be suitable for some supplemental purposes, if carefully placed to avoid false alarms during the usage of atmospheric effects.

Sheet List			
Drawing #	Rev	Title	Comments
AV-001	0	Title Sheet	Cover Shee
AV-002	0	AV Box Schedule	Signal Box S
AV-101	0	Main Floor AVL Plan	Equipment,
AV-102	0	Mezzanine AVL Plan	Equipment,
AV-103	0	Catwalk AVL Plan	Equipment,
AV-201	0	AVL Conduits Diagram	Riser Diagra
AV-211	0	Electrical & Thermal Requirements for AVL	Electrical Ci

Total Sheets in this Release = 7

LEGEND:

Device Designations for AVL:	Symbols:	
AR = Audio Rack		Duplay Floatrical Wall Outlat
AVR = Audio-Video Rack	\rightarrow	Duplex Electrical Wall Outlet
AMP = Audio Amplifier		
CAM = Camera on Stand		
CB = Ceiling Box		Duplex Electrical Floor Outlet
CP = Control Panel		
CS = Ceiling Speaker		
CSW = Company Switch	\leftrightarrow	Duplex Electrical Ceiling
CTRL = Control Pane	\smile	
DA = Signal Distribution Amplifier		
DS = Distributed Speaker		Quad Electrical Wall Outlet
•	\square	
DSP = Digital Signal Processor FB = Floor Box		
		Quad Electrical Electr Quitlet
FF = Front-Fill Speaker		Quad Electrical Floor Outlet
FOH = Front Of House (Control Booth)		
FS = Fill-area Speaker		
ICOM = Intercom	\bigoplus	Quad Electrical Ceiling Outlet
IO = Input/Output Device		
KC = Keyswitch Control, Wall-plate type		
LB = Lighting Batten		Duplex Split-Wired
LC = Lighting Control, Wall-plate type		
LF = Light Fixture		
LT = Lighting Truss		Quad Split-Wired
MCP = Motor Control Panel		
MIX = Audio Mixing Console		
MOD = Modulator	\wedge	
MON = Monitor	$= \bigcirc$	Special Purpose Electrical Wall Outlet
NS = Network Switch		
OG = Open Gear Frame	\frown	
PB = Patch Bay	TP(J)	Electrical Power Rough-in Location
PCR = Power Control Relay		
PDU = Power Distribution Unit		
PSQ = Power Sequencer		
	(_1")	Conduit ID Size in Inches, Trade Desig
PTZ = Robotic Camera		
REC = Media Capture Device		
RMT = Remote	(1-1/4)	(2nd Example, no inches symbol)
RTR = Router		(
RX = Receiver		
SP = Speaker (Main Performance)	\sim	
SUB = Sub-Bass Speaker	\otimes	Conduit Stub
TSG = Test Signal Generator		
TX = Transmitter		
VC = Volume Control, Wall-plate type	X	Ceiling Penetration
VD = Video Display, Flat-Panel type		0
VSP = Video Signal Processor		
VM = Video Mixer		Mall I Day / Daying Day for A)/I
VP = Video Projector		Wall J-Box / Device Box for AVL
VR = Video Rack	Ŭ	
VS = Video Screen, Projection type	\frown	
WAP = Wireless Access Point	(J)	Floor J-Box / Device Box for AVL
WB = Wall Box	\mathbf{U}	
	(\mathbf{J})	Ceiling J-Box / Device Box for AVL
	\smile	
	$\mathbf{\mathbf{v}}$	Data Outlet - General Purpose



uit ID Size in Inches, Trade Designation

Data & Voice Outlet - General Purpose

•—— *SUB2* AVL Device Designation

TP = Tech Power LP = Lighting Power GP = General Power IG = Isolated Ground (Iso Ground)

Note: All TP Outlets are Iso Ground by Default.

Circuit Designations for AVL

Circuit Designations for Electrical:

M = Mic Level Circuits L = Line Level Circuits

S = Speaker Level Circuits V = Video Signal

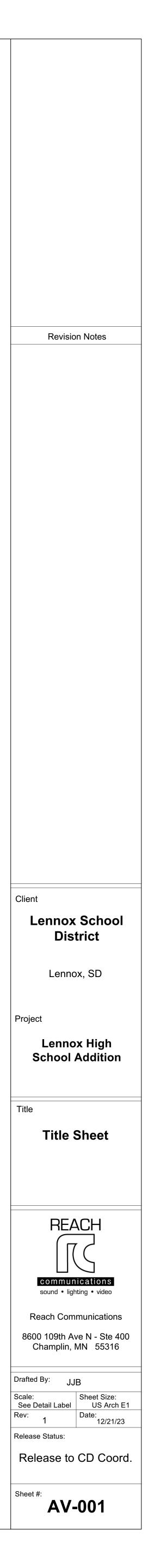
CX = Coax D = DMX Lighting Control

IC = Intercom Communications

N = Network, Serial, Digital Data FO = Fiber Optic

C = Control Low-Voltage Ckt.s

KC = Key Control F = Future Use



AV BOX SCHEDULE

AV BOX	SCHEDU	JLE											Electrical Contractor Installs All Boxes & Conduits.
										EC = EI	ectrical Contractor; AV-C = AV Contract	tor	ALL Power Receptacles for Floor Boxes are Provided & Installated by EC.
Identifier	Loc. Page	Room	Location	Function / Purpose	Size	Туре	Height	Mounting	Backbox Model	BBX By	Cover or Device Model	Cov/Dev l	By Comments
FB1	AV-101	Stage G106	Stage G106, Front-Right	Stage AV Connections	10x10x8	Floor Box	Stage	Floor	Ace Backstage: BRK1028BBX	AV-C	Ace Backstage: BZ132M2BK	AV-C	
FB2	AV-101	Stage G106	Stage G106, Front-Right-Middle	Stage AV Connections	10x10x8	Floor Box	Stage	Floor	Ace Backstage: BRK1028BBX	AV-C	Ace Backstage: BZ132M2BK	AV-C	
FB3	AV-101	Stage G106	Stage G106, Front-Left-Middle	Stage AV Connections	10x10x8	Floor Box	Stage	Floor	Ace Backstage: BRK1028BBX	AV-C	Ace Backstage: BZ132M2BK	AV-C	
FB4	AV-101	Stage G106	Stage G106, Front-Left	Stage AV Connections	10x10x8	Floor Box	Stage	Floor	Ace Backstage: BRK1028BBX	AV-C	Ace Backstage: BZ132M2BK	AV-C	
FB5	AV-101	Stage G106	Stage G106, Back-Right	Stage AV Connections	18x10x8	Floor Box	Stage	Floor	Ace Backstage: BRK1048BBX	AV-C	Ace Backstage: BZ134M2BK	AV-C	
FB6	AV-101	Stage G106	Stage G106, Back-Middle	Stage AV Connections	18x10x8	Floor Box	Stage	Floor	Ace Backstage: BRK1048BBX	AV-C	Ace Backstage: BZ134M2BK	AV-C	
FB7	AV-101	Stage G106	Stage G106, Back-Left	Stage AV Connections	18x10x8	Floor Box	Stage	Floor	Ace Backstage: BRK1048BBX	AV-C	Ace Backstage: BZ134M2BK	AV-C	
WB1	AV-101	Stair G110	Stair G110, South Wall	Transition Box	8x8x72	Screw-Cover Wireway	12-18" AFF	Surface	Wiegmann: S8872NK, or Equiv.	EC	Screw Cover, incl.'d w/ Box	EC	Opens Away from Wall
WB2	AV-102	Control G63	Control G63, Below Counter	Transition Box	6x6x72	Screw-Cover Wireway	12-18" AFF	Surface	Wiegmann: S6672NK, or Equiv.	EC	Screw Cover, incl.'d w/ Box	EC	Opens Away from Wall
WB21	AV-101	Stair G110	Stair G110; West Wall, See AV-101	RMT, DSP Remote	4" Sq	2-1/8" Deep, w/ 2G Mud Ring	60" AFF, or Match Height of Others	Flush	Raco or similar	EC	2G Blank, Match Color of Others	EC	
WB22	AV-101	Make-Up G112	Make-Up G112; East Wall, See AV-101	RMT, DSP Remote	4" Sq	2-1/8" Deep, w/ 1G Mud Ring	46" AFF, or Match Height of Others	Flush	Raco or similar	EC	1G Blank, Match Color of Others	EC	
WB31	AV-101	Stage G106	Stage G106, SE-Wall Facing Backstage	Speaker	4" Sq	2-1/8" Deep, w/ 1G Mud Ring	86" AFF	Flush	Raco or similar	EC	1G Blank, Match Color of Others	EC	
WB32	AV-101	Stage G106	Stage G106, NE-Wall Facing Backstage	Speaker	4" Sq	2-1/8" Deep, w/ 1G Mud Ring	86" AFF	Flush	Raco or similar	EC	1G Blank, Match Color of Others	EC	
WB41	AV-101	Make-Up G112	Make-Up G112; East Wall, Above RMT	VD, Video Display	4" Sq	2-1/8" Deep, w/ 8x 1"KO, w/ 1G Mud Ring	78" AFF	Flush	Cooper/Crouse-Hinds TP436 or similar	EC	1G Blank, Match Color of Others	EC	
WB51	AV-101	Lobby F101	Lobby F101; West Wall, Adjacent to WB51	VD, Video Display	4" Sq	2-1/8" Deep, w/ 8x 1"KO, w/ 1G Mud Ring	84" AFF	Flush	Cooper/Crouse-Hinds TP436 or similar	EC	1G Blank, Match Color of Others	EC	
WB71	AV-102	Balcony G201	Balcony G201; East Wall	AVL Connections	6x6x4	Screw-Cover Box	12-18" AFF	Flush	Wiegmann: SC060604NK, or Equiv.	EC	Screw Cover, Incl.'d w/ Box	EC	
WB72	AV-102	Balcony G202	Balcony G202; East Wall	AVL Connections	6x6x4	Screw-Cover Box	12-18" AFF	Flush	Wiegmann: SC060604NK, or Equiv.	EC	Screw Cover, Incl.'d w/ Box	EC	
WB111	AV-103	Theater G105	Theater G105; Catwalk 1, Front Rail Center	AVL Connections	8x8x4	Screw-Cover Box	Top Rail	Surface	Wiegmann: SC080804NK, or Equiv.	EC	Screw Cover, Incl.'d w/ Box	EC	Box Faces into Catwalk
WB112	AV-103	Theater G105	Theater G105; Catwalk 2, Front Rail Center	AVL Connections	8x8x4	Screw-Cover Box	Top Rail	Surface	Wiegmann: SC080804NK, or Equiv.	EC	Screw Cover, Incl.'d w/ Box	EC	Box Faces into Catwalk
WB113	AV-103	Theater G105	Theater G105; Catwalk 3, Front Rail Center	AVL Connections	8x8x4	Screw-Cover Box	Top Rail	Surface	Wiegmann: SC080804NK, or Equiv.	EC	Screw Cover, Incl.'d w/ Box	EC	Box Faces into Catwalk
WB114	AV-103	Stage G106	Stage G106; Catwalk 4, Front Rail Center	AVL Connections	8x8x4	Screw-Cover Box	Top Rail	Surface	Wiegmann: SC080804NK, or Equiv.	EC	Screw Cover, Incl.'d w/ Box	EC	Box Faces into Catwalk
WB115	AV-103	Stage G106	Stage G106; Catwalk 5, Front Rail Center	AVL Connections	8x8x4	Screw-Cover Box	Top Rail	Surface	Wiegmann: SC080804NK, or Equiv.	EC	Screw Cover, Incl.'d w/ Box	EC	Box Faces into Catwalk
WB116	AV-103	Stage G106	Stage G106; Catwalk 6, Front Rail Center	AVL Connections	8x8x4	Screw-Cover Box	Top Rail	Surface	Wiegmann: SC080804NK, or Equiv.	EC	Screw Cover, Incl.'d w/ Box	EC	Box Faces into Catwalk

BOX TYPE - FURTHER DETAILS

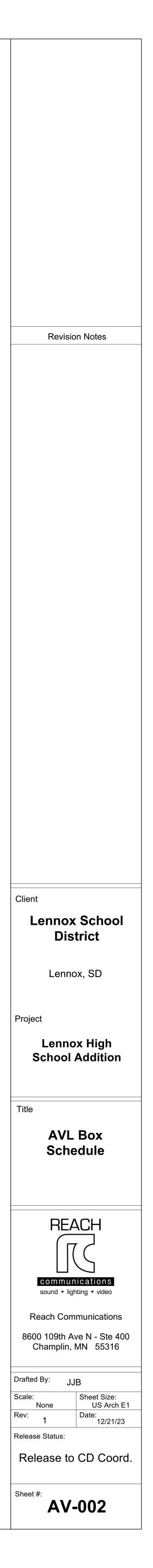
ID	Box Size	Вох Туре	Mount Type	Further Description	Example Model	Comments
А	4" Sq	2-1/8" Deep, w/ 1G Mud Ring	Flush	4" Square, 2-1/8" Deep Steel standard device box with 1/2" & 3/4" knockouts with 1-Gang Mud Ring.	Raco or similar	Used for Flush-Mount in GWB (drywall), for mounting 1-Gang connector plate or device
В	4" Sq	2-1/8" Deep, w/ 2G Mud Ring	Flush	4" Square, 2-1/8" Deep Steel standard device box with 1/2" & 3/4" knockouts with 2-Gang Mud Ring.	Raco or similar	Used for Flush-Mount in GWB (drywall), for mounting 2-Gang connector plate or device
С	4" Sq	2-1/8" Deep, w/ 8x 1"KO, w/ 1G Mud Ring	Flush	4" Square, 2-1/8" Deep w/ 8x 1" Knock-Outs on sides, 1/2" & 3/4" on back with 1-Gang Mud Ring.	Cooper/Crouse-Hinds TP436 or similar	Used for Flush-Mount in GWB (drywall), with 1" Knock-Outs.
D	4" Sq	2-1/8" Deep, w/ 8x 1"KO, w/ 2G Mud Ring	Flush	4" Square, 2-1/8" Deep w/ 8x 1" Knock-Outs on sides, 1/2" & 3/4" on back with 2-Gang Mud Ring.	Cooper/Crouse-Hinds TP436 or similar	Used for Flush-Mount in GWB (drywall), with 1" Knock-Outs.
Е	4" Sq	2-1/8" Deep, w/ 8x 1"KO	Surface	4" Square, 2-1/8" Deep w/ 8x 1" Knock-Outs on sides, 1/2" & 3/4" on back.	Cooper/Crouse-Hinds TP436 or similar	Used for Small Surface-Mount Cabling Pull or Device Box with 1" Knock-Outs.
F	4-11/16" Sq	2-1/8" Deep, w/ 8x 1"KO	Surface	4-11/16" Sq. box 2-1/8" Deep, w/ 8x 1" Knock-Outs on sides, other 1/2" & 3/4" on back.	Cooper/Crouse-Hinds TP560 or similar	Surface-mount for Device mounting with 1" Knock-Outs. Blank cover is typical.
G	4-11/16" Sq	2-1/8" Deep, w/ 1" & 3/4" KO w/ 1G Ring	Surface	4-11/16" Sq. box 2-1/8" Deep, w/ 4x 1" & 4x 3/4" Knock-Outs on sides, others on back, 1G Flat Ring.	Cooper/Crouse-Hinds TP558 or similar	1G Flat Ring: Garvin 72C62A or similar. Results in No plate overlap for device mount
н	4-11/16" Sq	2-1/8" Deep, w/ 1" & 3/4" KO, w/ 2G Ring	Surface	4-11/16" Sq. box 2-1/8" Deep, w/ 4x 1" & 4x 3/4" Knock-Outs on sides, others on back, 2G Flat Ring.	Cooper/Crouse-Hinds TP558 or similar	2G Flat Ring: Cooper/CH TP590 or similar. Results in No plate overlap for device mo
Ι	1G	2-1/2" Deep Flush	Flush	Device box for flush-mounting, 1-Gang 2-1/2" Deep, Steel, with 1/2" & 3/4" knockouts.	Raco or similar	GWB (drywall) or Masonry type, as appropriate.
J	2G	2-1/2" Deep Flush	Flush	Device box for flush-mounting, 2-Gang 2-1/2" Deep, Steel, with 1/2" & 3/4" knockouts.	Raco or similar	GWB (drywall) or Masonry type, as appropriate.
κ	3G	3G, Deep, w/ 3G Ring	Flush or Surface	4-1/2" H x 2-1/2" D x 8-5/8" W, 90 cu.in. Steel Box w/ 3/4" & 1" Knock-Outs, 3-Gang Ring.	Cooper/Crouse-Hinds TP871 or similar	Flush in GWB (drywall) or Surface, w/ Garvin GBGFI-3 Flat Decora 3-Sp Ring; Initially
L	4G	4G, Deep, w/ 4G Ring	Flush or Surface	4-1/2" H x 2-1/2" D x 10-7/16" W, 110 cu.in. Steel Box w/ 3/4" & 1" Knock-Outs, 4-Gang Ring.	Cooper/Crouse-Hinds TP872 or similar	Flush in GWB (drywall) or Surface, w/ Garvin GBGFI-4 Flat Decora 4-Sp Ring; Initially
М	1G	Deep Masonry	Flush	Device box for flush-mounting in masonry, 1-Gang 2-1/2" Deep, Steel, with 1/2" & 3/4" knockouts.	Cooper/Crouse-Hinds TP682 or similar	Specifically for Masonry flush mounting.
Ν	2G	Deep Masonry	Flush	Device box for flush-mounting in masonry, 2-Gang 2-1/2" Deep, Steel, with 1/2" & 3/4" knockouts.	Cooper/Crouse-Hinds TP683 or similar	Specifically for Masonry flush mounting.
0	3G	Deep Masonry	Flush	Device box for flush-mounting in masonry, 3-Gang 2-1/2" Deep, Steel, with 1/2" & 3/4" knockouts.	Cooper/Crouse-Hinds TP684 or similar	Specifically for Masonry flush mounting.
Ρ	1G	Surface, Metal Raceway Box	Surface	Surface-mount steel box, factory painted. 1 Gang, 4.5" x 2.75" min., no plate overlap. 1.5" Deep min.	Wiremold or similar	Coordinate color for job. Typically White, Almond or Beige. Field-paint for Black.
Q	2G	Surface, Metal Raceway Box	Surface	Surface-mount steel box, factory painted. 2 Gang, 4.5" x 4.562" min., no plate overlap. 1.5" Deep min.	Wiremold or similar	Coordinate color for job. Typically White, Almond or Beige. Field-paint for Black.

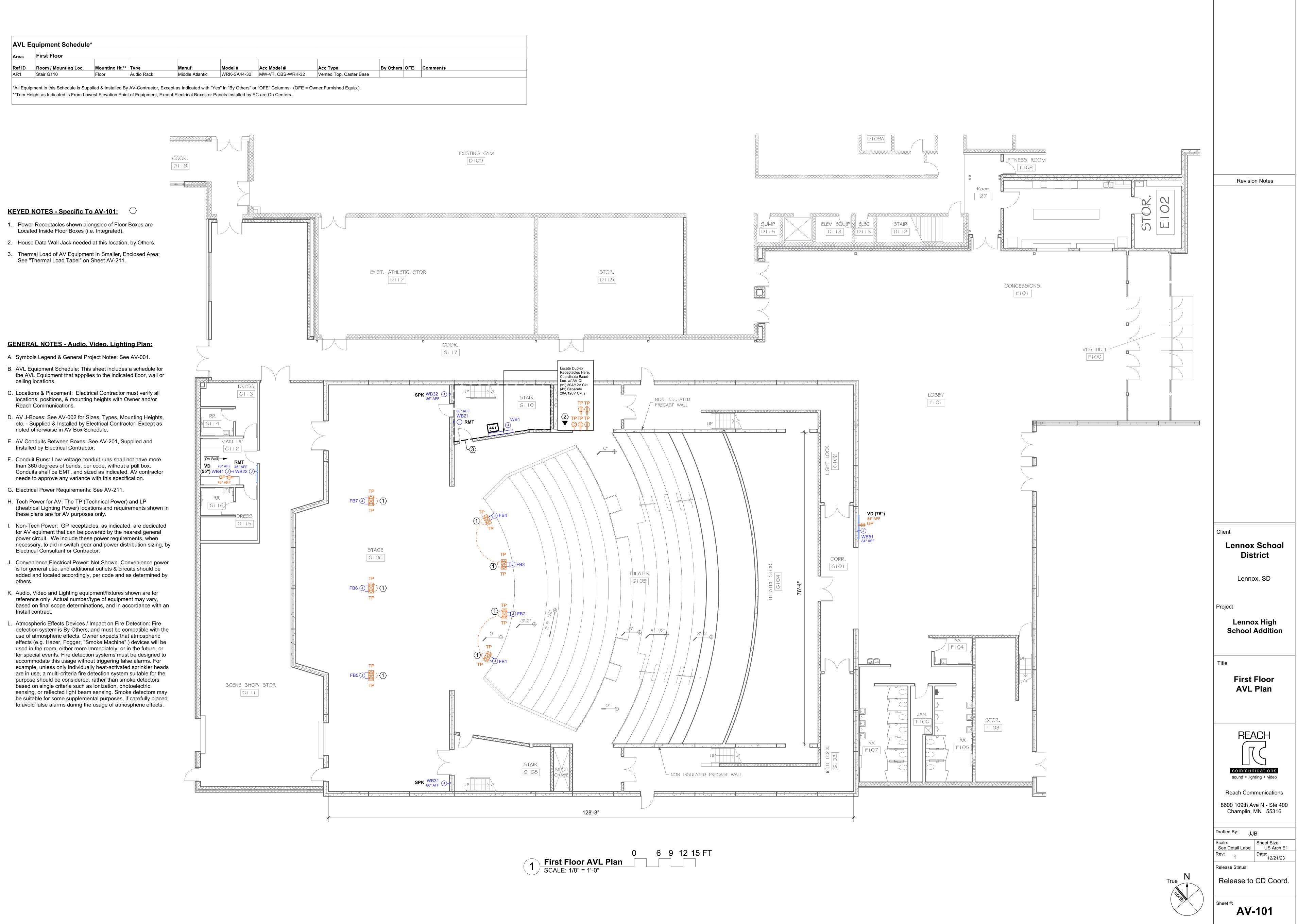
NOTES - Specific to This Sheet - AV Boxes:

 AV Boxes - Supplied By: Electrical Contractor will supply & install all Back-Boxes and attached conduits, and also blank or standard covers. Devices (e.g. controls, connectors, custom plates, and similar) installed inside of, and as special purpose covers for these boxes, are installed by AVL Contractor, unless noted otherwise. Racks are suppled and installed by AVL Contractor.

 Box Types As-Listed Are Required: Electrical Contractor will install the specific box types listed, or equivalent, unless approved otherwise by AVL Contractor. Further box details are listed for 1G, 2G, 3G, 4 Square & 4-11/16 Square in the separate table on this sheet, to help clarify.

ctor plate or device.
ctor plate or device.
ock-Outs.
r is typical.
for device mounting.
ap for device mounting.
-Sp Ring; Initially w/ Blank cover by EC, Typ.
-Sp Ring; Initially w/ Blank cover by EC, Typ.
int for Black.



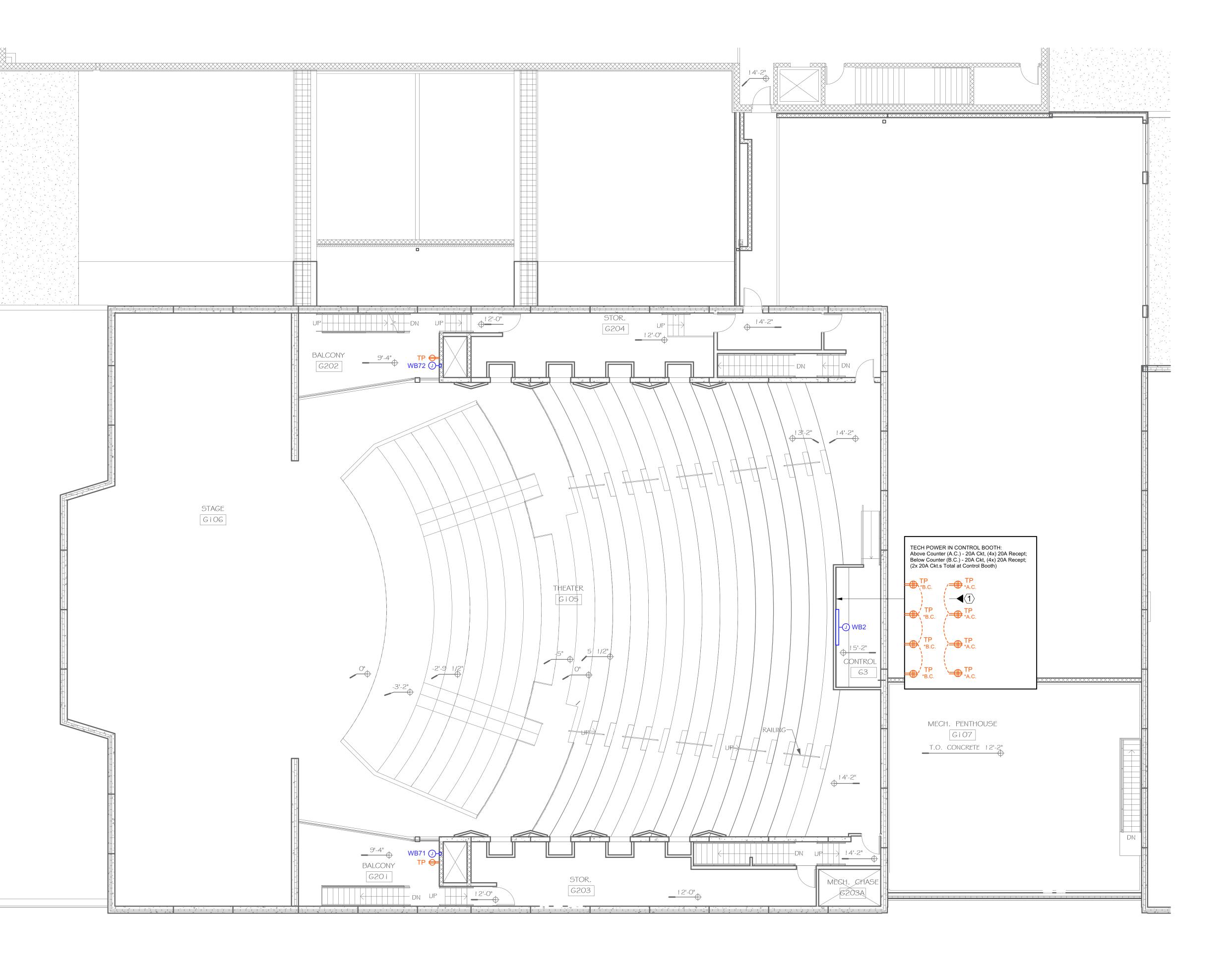


KEYED NOTES - Specific To AV-102:

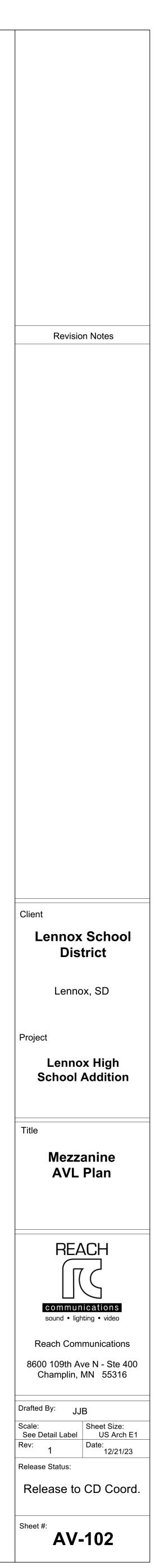
1. House Data Wall Jack needed at this location, by Others.

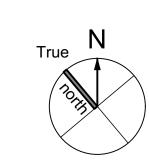
GENERAL NOTES - Audio, Video, Lighting Plan:

- A. Symbols Legend & General Project Notes: See AV-001.
- B. AVL Equipment Schedule: This sheet includes a schedule for the AVL Equipment that appplies to the indicated floor, wall or ceiling locations.
- C. Locations & Placement: Electrical Contractor must verify all locations, positions, & mounting heights with Owner and/or Reach Communications.
- D. AV J-Boxes: See AV-002 for Sizes, Types, Mounting Heights, etc. - Supplied & Installed by Electrical Contractor, Except as noted otherwaise in AV Box Schedule.
- E. AV Conduits Between Boxes: See AV-201, Supplied and Installed by Electrical Contractor.
- F. Conduit Runs: Low-voltage conduit runs shall not have more than 360 degrees of bends, per code, without a pull box.
 Conduits shall be EMT, and sized as indicated. AV contractor needs to approve any variance with this specification.
- G. Electrical Power Requirements: See AV-211.
- H. Tech Power for AV: The TP (Technical Power) and LP (theatrical Lighting Power) locations and requirements shown in these plans are for AV purposes only.
- Non-Tech Power: GP receptacles, as indicated, are dedicated for AV equiment that can be powered by the nearest general power circuit. We include these power requirements, when necessary, to aid in switch gear and power distribution sizing, by Electrical Consultant or Contractor.
- J. Convenience Electrical Power: Not Shown. Convenience power is for general use, and additional outlets & circuits should be added and located accordingly, per code and as determined by others.
- K. Audio, Video and Lighting equipment/fixtures shown are for reference only. Actual number/type of equipment may vary, based on final scope determinations, and in accordance with an Install contract.
- L. Atmospheric Effects Devices / Impact on Fire Detection: Fire detection system is By Others, and must be compatible with the use of atmospheric effects. Owner expects that atmospheric effects (e.g. Hazer, Fogger, "Smoke Machine".) devices will be used in the room, either more immediately, or in the future, or for special events. Fire detection systems must be designed to accommodate this usage without triggering false alarms. For example, unless only individually heat-activated sprinkler heads are in use, a multi-criteria fire detection system suitable for the purpose should be considered, rather than smoke detectors based on single criteria such as ionization, photoelectric sensing, or reflected light beam sensing. Smoke detectors may be suitable for some supplemental purposes, if carefully placed to avoid false alarms during the usage of atmospheric effects.



0 6 9 12 15 FT Mezzanine AVL Plan SCALE: 1/8" = 1'-0"



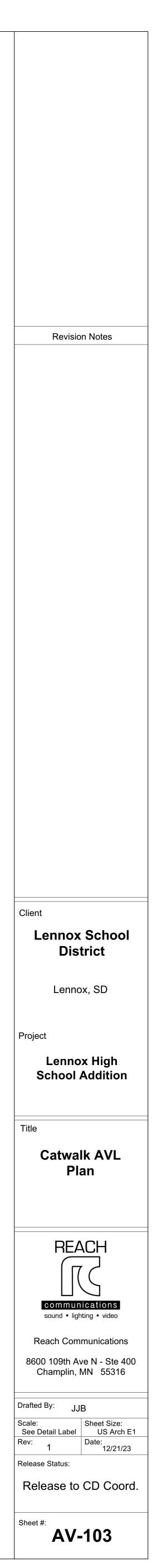


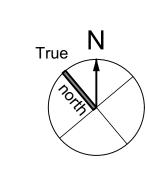
Area:	First Floor Ceiling									
Ref ID	Room / Mounting Loc.	Mounting Ht.**	Туре	Manuf.	Model #					
VS1	Stage G106; Pipe Grid	TBD	Video Screen, Projection, Motorized	Da-Lite	38700					

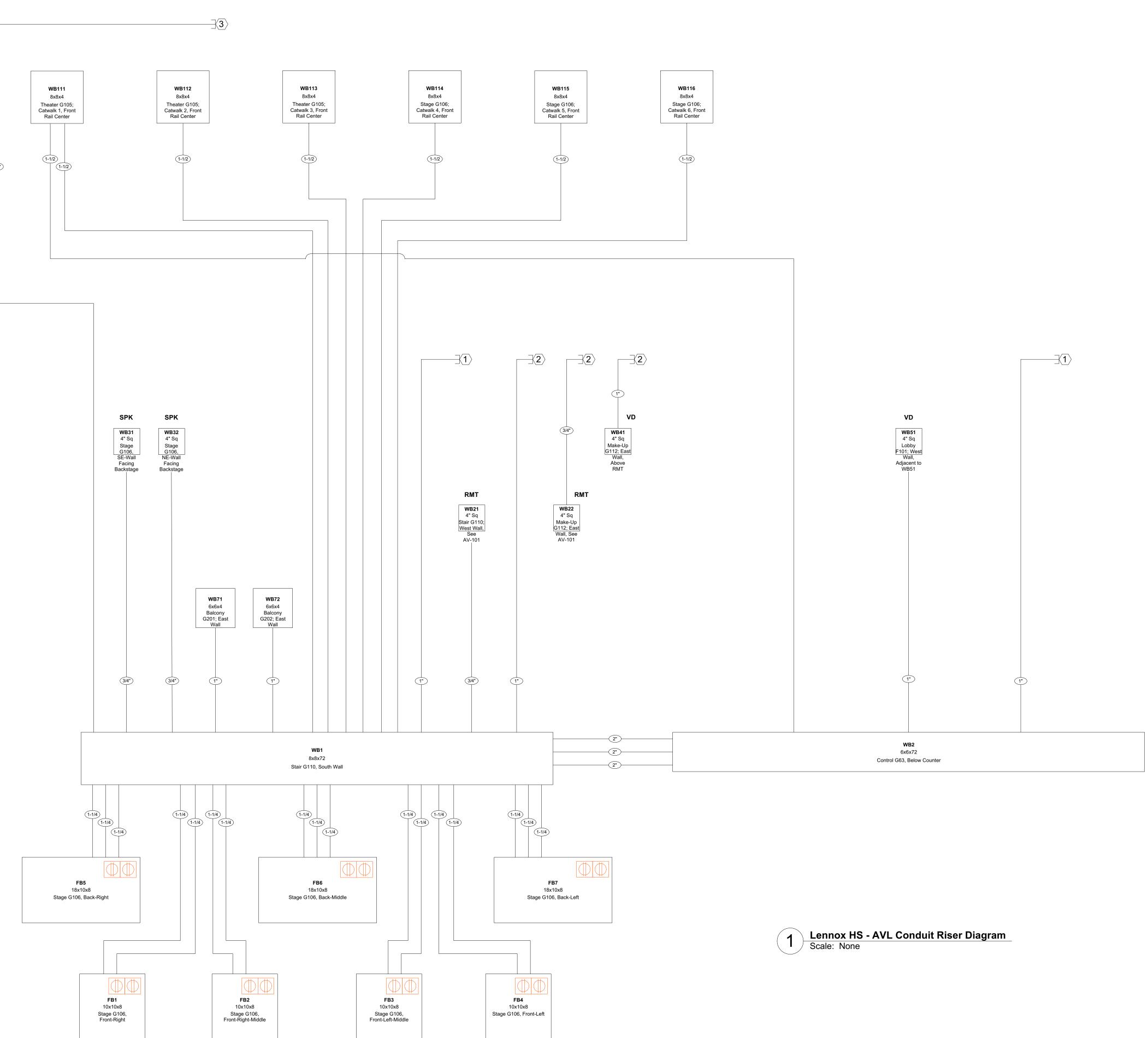


	r			1	
	Acc Model #	Асс Туре	By Others	OFE	Comments
					21.5 ft Wide nom., 16:9 Aspect, Matte White surface
uip.)					

0 6 9 12 15 FT **Catwalk AVL Plan** SCALE: 1/8" = 1'-0"







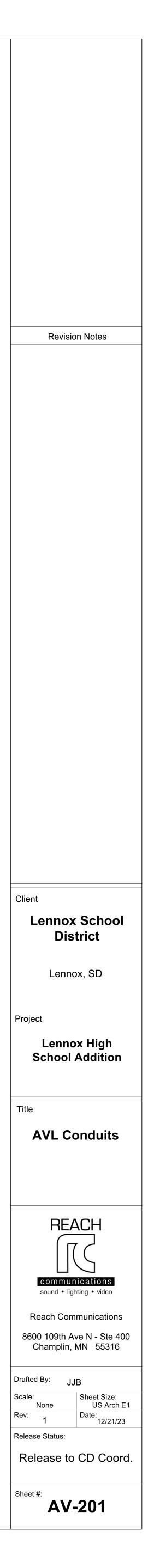
* NOTE - ELECTRICAL RECEPTACLES SHOWN HERE ARE FOR LOCATION REFERENCE ONLY

KEYED NOTES - Specific To This View: \bigcirc

- Lighting Relay Panel (LRP, By Others) Low-Voltage CTRL Conduits: Stub near LRP (location by EC).
- 2. Stub Conduit into accessible ceiling space of Make-Up G112.
- 3. Projector Screen CTRL Conduit Stub: Stub down to pipe grid, facing down.

GENERAL NOTES - AVL Conduit Diagram:

- A. Symbols Legend & Overall General Notes: See AV-001.
- B. AV J-Boxes: See AV-002 for Sizes, Types, Mounting Heights, etc. Supplied & Installed by Electrical Contractor, except as specified otherwise in AV Box Schedule.
- C. Locations & Placement: Electrical Contractor must verify all locations, positions, & mounting heights with Owner and/or Reach Communications
- D. AV Conduits & Boxes Materials & Installation Responsibility: All such items in these diagrams must be supplied & installed by the Electrical Contractor, unless explicitly indicated otherwise.
- E. Conduit Size: Low-voltage conduit runs shall be EMT, and sized at or above the size specified in these drawings.
- F. Conduit Bends & Distance: Conduit runs shall not have more than 360 degrees of bends, per code, without an appropriately-sized pull box. AV contractor needs to approve any variance to this specification. Conduit used shall be EMT.
- G. AV Conduits Condition & Pull String: Electrical Contractor is responsible to verify that all AV conduits are free from debris & water, are open through their entire run such that they can accommodate their standard fill, and that all joints and couplings are installed according to proper workmanship. A nylon pull line must be installed in all AV conduits, unless approved otherwise.
- H. Labels: Electrical Contractor must professionally label all electrical power outlets, at the outlet locations, that are installed for TP or LP purposes. Use a code indicating source panel and circuit number. For example, use TP-A-10 for each outlet connected to Technical Power panel A, Ckt 10, or similar code.
- I. Electrical Power Requirements: See AV-211 21x. TP (Technical Power) and LP (Lighting Power for theatrical) shown here are for reference only.
- J. Convenience Electrical Power: Not Shown. Convenience power is for general use, and additional outlets & circuits should be added and located accordingly, per code and as determined by others.
- K. Floor Boxes: Floor boxes specified by AV Contractor may have integrated electrical receptacles, and will be indicated as such by the placement of a TP electrical receptacle symbol adjacent to the floor box on the Reach AVL plan set or mark-up. Verify exact placement and mounting depth prior to rough-in.
- L. Wall and Ceiling Boxes: Wall and Ceiling boxes will generally NOT have integrated electrical receptacles, unless otherwise indicated by call-out. SEE Box Schedule AV-002 for sizes and elevations.
- M. Receptacle & Control Panel Elevations: Match existing, per code, unless otherwise noted.
- N. Bonding: Bond metal enclosures for AV, all Device boxes & J-Boxes, etc. to Earth Ground, and verify all AV metal conduits and metal boxes have a bonding path to Earth Ground.
- O. Fire Barrier Caulk: Where fire caulk is required per code & AHJ, for signal cabling sleeve penetrating a fire-rated wall or floor, approved fire-caulk product will be provided or specified by General Contractor or Electrical Contractor, to AV Contractor.



Space/s:	Stair G110			
Туре	Purpose	Circuit #	Room	Outlet Loca
TP	Rack Equip 5-20R Outlet-1, AR1		Stair G110	South Wall,
TP	Rack Equip 5-20R Outlet-2, AR1		Stair G110	South Wall,
TP	Rack Equip 5-20R Outlet-3, AR1		Stair G110	South Wall,
TP	Rack Equip 5-20R Outlet-4, AR1		Stair G110	South Wall,
TP	Rack Equip L5-30R Outlet-5, AR1		Stair G110	South Wall,

Space/s:	Theater G105		1	
Туре	Purpose	Circuit #	Room	Outlet
TP	Stage AV Power		Stage G106	FB1, F
TP	Stage AV Power		Stage G106	FB3, F
TP	Stage AV Power		Stage G106	FB5
TP	Stage AV Power		Stage G106	FB6
TP	Stage AV Power		Stage G106	FB7
TP	Control Booth Power		Control G63	Wall; 4
TP	Control Booth Power		Control G63	Wall; 4
TP	CONF Power		Theater G105	Catwa
TP	Catwalk AV Power		Theater G105	Catwa
TP	Balcony AV Power		Balcony G201	East V
TP	Balcony AV Power		Balcony G202	East V

_				NOTE: Exa		
Space:	Common Areas, Displays					
Туре	Purpose	Circuit #	Room	Outlet Loc		
GP	Backstage VD		Distributed TVs - Make-Up G112	Adjacent to		
GP	Lobby VD		Distributed TVs - Lobby F101	Adjacent to		

Space/s:	Stair G110								
Type	Burnese	Circuit #	Poom	Outlet Location	Hoight		Trin(Amns) Voltage		Natts Remarks
Туре	Purpose				Height	Qty. Loc.s			
TP	Rack Equip 5-20R Outlet-1, AR1		Stair G110	South Wall, Above WB1, See AV-101	1 12-36" AFF	1	20 120	D V 1	1800 Duplex
TP	Rack Equip 5-20R Outlet-2, AR1		Stair G110	South Wall, Above WB1, See AV-101	1 12-36" AFF	1	20 120) V 1	1800 Duplex
TP	Rack Equip 5-20R Outlet-3, AR1	9	Stair G110	South Wall, Above WB1, See AV-101	1 12-36" AFF	1	20 120		1800 Duplex
TP	Rack Equip 5-20R Outlet-4, AR1		Stair G110	South Wall, Above WB1, See AV-101			20 120		1200 Duplex
TP	Rack Equip L5-30R Outlet-5, AR1	5	Stair G110	South Wall, Above WB1, See AV-101	1 12-36" AFF	Totals 5	30 120		2880 Simplex 9480
				Ph. 120/208V Panel Capacity Required (5	26
			REF: 1	Ph. 120/240V Panel Capacity Required (Amps)				40
TP - TE	CH POWER CIRCUIT SCHEDU	LE FOR AV	۲L						
Space/s:	Theater G105								
_		.	_						
Туре	Purpose	Circuit #		Outlet Location	Heigh		Qty. Loc.s Trip(Ar	- /	Poles VA / Watts Remarks
TP	Stage AV Power		Stage G106	FB1, FB2	Stage	Floor	2	20 120 V	1 1200 2x Duplex in Each FB, Integrated w/ Floor E
TP	Stage AV Power		Stage G106	FB3, FB4	Stage	Floor	2	20 120 V	1 1200 2x Duplex in Each FB, Integrated w/ Floor E
			- · ·	FB5					
TP	Stage AV Power		Stage G106		Stage			20 120 V	1 900 2x Duplex in Each FB, Integrated w/ Floor E
TP	Stage AV Power		Stage G106	FB6	Stage	Floor	1	20 120 V	1 900 2x Duplex in Each FB, Integrated w/ Floor E
TP	Stage AV Power		Stage G106	FB7	Stage	Floor	1	20 120 V	1 900 2x Duplex in Each FB, Integrated w/ Floor E
TP	Control Booth Power		Control G63	Wall; 4x Above Counter		, or Match Others	A	20 120 V	1 1200
						,	4		
TP	Control Booth Power		Control G63	Wall; 4x Below Counter	12-18	", or Match Others	4	20 120 V	1 1200
TP	CONF Power		Theater G105	Catwalk 1; Front Rail, Center on	Stage 6-12"	AFF re Catwalk	1	20 120 V	1 1800 Attach to Rail, Facing Sideways to Stage
TP	Catwalk AV Power		Theater G105	Catwalk 1; Front Rail, Center on		AFF re Catwalk	1		1 900 Attach to Rail, Facing Sideways to Stage
				, , ,					
TP	Balcony AV Power		Balcony G201	East Wall, See AV-102	12-18	" Aff, or Match Others	1	20 120 V	1 900
TP	Balcony AV Power		Balcony G202	East Wall, See AV-102	12-18	" Aff, or Match Others	1	20 120 V	1 900
<u> </u>	· · · ·	<u> </u>	, <u>,</u>	,		Tota			11 12000
									11 12000
				F: 3-Ph. 120/208V Panel Capacity Requ	,				33
			RE	F: 1-Ph. 120/240V Panel Capacity Requ	ired (Amps)				50
	ENERAL PURPOSE CIRCUIT S								
					ting is Listed Llars	New and/or Eviating	aireuite at ar page tha T	V/leastions can by	a used for never, and a variaty of mixed users
Snoor (Common Aroas Displays			-	-	-			be used for power, and a variety of mixed-usage
Space: C	Common Areas, Displays			circuits can be utilized. Nominal circ	uit loading is 200V	A per Flat Panel TV.	[^] Typical Height Listed	- Except as Speci	ified Otherwise on AVL Location Plan.
Type F	Purpose Circuit # Room			Outlet Location	Height	Qty Loc s Trip	(Amps) Voltage I	Poles VA / Wat	tts Remarks
	•	d TVs - Make			78" AFF		• • • • • •	1	300 Duplex
	.			Adjacent to WB41			20 120 V		•
GP L	obby VD Distribute	d TVs - Lobby	/ F101	Adjacent to WB51	84" AFF	1	20 120 V	1	300 Duplex
					То	tals 2		2	600
					`				
				120/208V Panel Capacity Required (Amp					2
			REF: 1-Ph.	120/240V Panel Capacity Required (Amp	<u>S)</u>				3
GP - GE	NERAL PURPOSE CIRCUIT SO		OR UTILITY A	,					
Space: T	Theatre Stage								
	Purpose Circuit # R			Outlet Location	Height	Qty. Loc.s Trip(A		es VA / Watts	
GP F	Projection Screen S	tage G106, S	creen Motor	Pipe Grid, Behind Left Side of Screen	Pipe Grid	1	20 120 V		0 Attach to Pipe, Facing Down
					Tota	ls 1		1 300	0
			REF: 3-Ph. 1	20/208V Panel Capacity Required (Amps	(ذ			1	1
				20/240V Panel Capacity Required (Amps				1	1
					/				•
THERM	AL LOAD TABLE - for AV Equi	nment in S	maller Enclose	Areas					
					í	(Typical) (Approxir	mate)		
Location	Equip. Type Elec	trical Watts	Equip. Eff. (Est.d)	Thermal BTU/hr Type of Thermal Lo	ad Idle Load	On Time Hrs. Idle / Pe	eak Duty Cycle R	oom Occ.?	
Stair G11		828					nr. Idle / 0.5 hr. Peak	No	
								No	
Stair G11	0 AV & Data Equip.	120	0 0%	4094 Long Dura	ation 100%	24	NA	No	
			•	mps, if separate Wattage rating is not available).					
I hermal (B⁻	TU/hr):Thermal Total Load in the indicated a (Does not include heat from humans, ro			-					
	(General Cooling Guideline: 1 ton of co	oling capacity is	required per 12,000 BT	U/hr of steady thermal load.)					
Type of The	ermal Load = Short Duration : Provide for suit	• • •							
	ermal Load = Short Duration / Large Idle : Co								
	-		•••						
		-		ooling by HVAC, and/or suitable Air Exchange.					
	5 : This is the percentage of the Thermal BTU		•	-					
On Time Hr	s. : This is the typical time per day that the sy	stem is on, for i	dle & peak periods com	bined, on days that the system is used.					
Idle / Peak I	Duty Cyle : This is the approximate duty cyle	of Idle periods 8	Peak periods (or othe	than Idle, if not operating at Peak).					
	2 : Yes or No. Is Room Occupied by Human	•	•						

Location	Equip. Type	Electrical Watts	Equip. Eff. (Est.d)	Thermal BTU/h
Stair G110	Audio Amplifers	8280	80%	5
Stair G110	AV & Data Equip.	1200	0%	4

Room Occ.?: Yes or No, Is Room Occupied by Humans for Operation or regular Support (other than incidental or infrequent).

GENERAL NOTES - Electrical Requirements for AVL:

A. Symbols Legend & General Notes: See AV-001.

- B. Design Responsibility: For AC Electrical Power sources, panels, conduits, wiring and related, all technical details including size, routing, etc. are responsibility of Electrical Designer and/or Electrical Contractor. They must verify compliance with local codes & proper design practice, and make any modifications needed for compliance, while maintaining the original conceptual intent of these plans to the extent possible.
- C. Materials & Installation Responsibility: All items in these Electrical Requirments are supplied & installed by Electrical Contractor, unless indicated otherwise. All electrical power wiring is by Electrical Contractor. All items in this Electrical Requirements plan are mounted by the Electrical Contractor, regardless of supplier, unless indicated otherwise.
- D. Power-limited Cabling: All power-limited and signal cabling for AVL systems is supplied, installed & terminated by AVL Contractor except as indicated specifically otherwise in these drawings.

EXCEPTION - It is typical that DMX and/or 0-10v control cables for House Lighting fixtures be installed by the Electrical Contractor.

- E. Circuit Details TP: Technical Power (TP) Ckt.s for AV are each, except where indicated otherwise, a separate 120VAC @ 20A Ckt, wired (for all completely new circuits) as Isolated-Ground and Dedicated (Separate) Neutral to receptacles (IG type) at each outlet location. For all new outlets, these must be NEMA config. 5-20R, or other special outlet type per specific call-out. If existing & not designated specifically as 5-20R, or where approved, outlets may be NEMA 5-15R by exception.
- F. Circuit Details LP: Lighting Power (LP) Ckt.s are each a separate 120VAC @ 20A Ckt, wired as a Dedicated (Separate) Neutral, to an outlet receptacle as defined per symbol, for individual circuits. For LP special receptacles & multi-phase circuits, where these are indicated, an appropriately sized dedicated neutral is required. All LP outlets must be NEMA 5-20R (NOT 5-15R), unless listed otherwise.
- G. Non-Tech Power: GP receptacles, as indicated, are dedicated for AV equiment that can be powered by the nearest general power circuit. We include these power requirements, when necessary, to aid in switch gear and power distribution sizing, by Electrical Consultant or Contractor.
- H. Convenience Electrical Power: Not Shown. Convenience power is for general use, and additional outlets & circuits should be added and located accordingly, per code and as determined by others.
- I. Control Panel & Receptacle Elevations: Match existing, per code, unless otherwise noted.
- J. Floor Boxes: Floor boxes specified by AV Contractor may have integrated electrical receptacles, and will be indicated as such by the placement of a TP electrical receptacle symbol adjacent to the floor box on the Reach AVL plan set or mark-up. Verify exact placement and mounting depth prior to rough-in.
- K. Wall and Ceiling Boxes: Wall and Ceiling boxes will generally NOT have integrated electrical receptacles, unless otherwise indicated by call-out. SEE Box Schedule AV-002 for sizes and elevations.
- L. Receptacle & Control Panel Elevations: Match existing, per code, unless otherwise noted.
- M. Labels: Electrical Contractor must professionally label all electrical power outlets, at the outlet locations, that are installed for TP or LP purposes. Use a code indicating source panel and circuit number. For example, use TP-A-10 for each outlet connected to Technical Power panel A, Ckt 10, or similar code.
- N. Bonding: Bond metal enclosures for AV, all Device boxes & J-Boxes, etc. to Earth Ground, and verify all AV metal conduits and metal boxes have a bonding path to Earth Ground.
- O. Load Center Panel & Conduit Segregation: AV Tech Power (TP) must be segregated from other load power circuits, preferably using a dedicated Load Center panel (or panels). Keep TP wiring segregated within any shared panel(s). Also, keep TP wiring and associated conduits segregated from wiring used for dimmed lighting, including all LP circuits, and other electrically "noisy" loads, as well as separate from all other general purpose loads and their associated panels & conduits. Do NOT run AV Tech Power wiring in the same conduits with wiring for LP circuits or similar.
- P. Electrical Supply Comments: For any new major work, a separate transformer for AV Technical Power, where feasible, is useful for additional isolation from other loads. Transformers that are appropriately K-rated (e.g. K-13) should be used where feasible, for both TP & LP, due to the harmonic currents encountered with AV electronics, computers, UPS units & dimmer loads.

