Addendum No. 2 August 24, 2022

Project: St. Mary Catholic School Addition & Remodel

812 N. State Avenue

Dell Rapids, South Dakota 57022

Architecture Incorporated Project #2788

Architect: Architecture Incorporated

Letting: September 8, 2022

2:00 PM

St. Mary Catholic Church

Parish Hall 608 East 8th Street

Dell Rapids, South Dakota 57022

Scope of this Addendum:

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

GENERAL ITEMS:

1. GENERAL

- a. Addendum #1 clarification the project name is 'St. Mary Catholic School Addition & Remodel'.
- b. Attendance sign-in from the August 18, 2022, Pre-Bid Meeting is attached to the end of this addendum.
- c. Temporary Utility Services, General Clarification: It shall be the sole responsibility of the Contractor to provide utility services for all construction activities, including but not limited to temporary heating, water, power, and lighting, as specified per Section 015000 Temporary Facilities and Controls. The Contractor shall be responsible for providing utility services to facilitate construction, per the Base Bid, regardless of existence of readily-available, permanently-installed utility services such as natural gas, water and electricity.

2. <u>SECTION 015000 – TEMPORARY FACILITIES AND CONTROLS</u>

- a. Add Article 1.2.F. as follows:
 - i. Temporary Heat: The [Contractor shall pay] all use charges and provide all equipment necessary to furnish temporary heat.
 - ii. Liquid propane (LP) gas shall be considered suitable option for use as temporary heating fuel; all costs associated with the use of LP gas, including delivery charges and LP gas-type heating equipment, shall be the responsibility of the Contractor and shall be included in his Base Bid.

iii. Electric heating units shall be prohibited. Electric heating units shall [not] be used for temporary heating.

b. Add Article 1.5.D. as follows:

i. Erosion- and Sedimentation-Control: Show compliance with requirements of authorities having jurisdiction; comply with requirements enforced by the City of Dell Rapids.

c. Add Article 1.5.E. as follows:

- i. Erosion Control: Erosion control shall be installed throughout the site as a part of the Contractor's scope of work. The Contractor shall install and maintain all necessary erosion control measures until the project reaches Final Completion.
- ii. Unless indicated otherwise, the Contractor shall be responsible for maintaining all erosion control measures on site until Final Completion. If necessary, the Contractor shall install additional erosion control devices in accordance with City of Dell Rapids requirements as the project progresses.
- iii. The Contractor shall repair any/all deficient erosion control measures throughout the duration of the project.
- iv. The Contractor shall be responsible for removing all erosion control measures at the end of the project. Removal of erosion control measures shall not occur until permanent landscaping has been established and erosion control removal has been [approved by the Owner].

d. Add Article 1.5.F. as follows:

i. Weed Control: The Contractor shall be responsible for weed control on the site throughout the duration of the Project.

e. Add Articles 1.6.B., 1.6.C. & 1.6.D. as follows:

- i. Conditions of Use: The following conditions apply to use of temporary services and facilities by all parties engaged in the Work:
 - 1. Keep temporary services and facilities clean and neat.
 - 2. Relocate temporary services and facilities as required by progress of the Work.
 - 3. Emergency Exits: The Contractor shall maintain all emergency always exits, as specified; covered walkways will [not] be required.
 - 4. The Contractor shall ensure that all existing entrances remain clear and accessible at all times for the public's use and as emergency exits, including during earthwork operations, [unless otherwise agreed to by the Owner].

f. Add Articles 2.3.D. & 2.3.E. as follows:

- i. Electrical Outlets: Properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher-voltage outlets; equipped with ground-fault circuit interrupters, reset button, and pilot light.
- ii. Power Distribution System Circuits: Where permitted and overhead and exposed for surveillance, wiring circuits, not exceeding 125-V ac, 20-A rating, and lighting circuits may be nonmetallic sheathed cable.

g. Add: PART 2 Products 2.1 MATERIALS:

- i. Chain-Link Fencing: Minimum 2-inch (50-mm), 0.148-inch- (3.8-mm-) thick, galvanized-steel, chain-link fabric fencing; minimum 6 feet (1.8 m) high with galvanized-steel pipe posts; minimum 2-3/8-inch- (60-mm-) OD line posts and 2-7/8-inch- (73-mm-) OD corner and pull posts, with 1-5/8-inch- (42-mm-) OD top rails.
- ii. A [6-feet] tall chain-link site enclosure fence shall be installed [and maintained] around the construction site prior to commencing earthwork activities. Do not remove site enclosure fence until directed to do so by the Architect; see Phasing Plan.
- iii. Reference the Phasing Plan for temporary fencing locations; see revised sheet 1.21 (attached 8/23/2022).
- iv. The successful Contractor shall coordinate exact extents of temporary fencing with the Owner prior to commencing earthwork activities.

3. SECTION 042000 – UNIT MASONRY ASSEMBLIES

a. Part 3.3.B.1 – change bond pattern for exposed concrete masonry units to Stacked Bond in lieu of Running Bond.

4. SECTION 123625 – PLASTIC-LAMINATE-CLAD COUNTERTOPS

- a. Reference Article 2.3.A.7: omit reference to 18" x 15" x 11" upright assembly and all accessories needed for complete installation.
 - i. Science Apparatus not required on this project.
- b. Provide Model PL25ADA (18" x 15" x5" deep) sinks at ADA locations.

5. SECTION 142400 – HYDRAULIC ELEVATORS

- a. Part 2.3.B.4 change rated speed to 110 fpm in lieu of 100 fpm.
- b. Part 2.3.B.9 omit this item. Refer to Part 2.5.C as modified by this addendum.
- c. Part 2.3.B.10.g omit this item reveals are not required.
- d. Part 2.3.B.10.k change handrail dimensions to $\frac{1}{4}$ " x 2" in lieu of $\frac{1}{2}$ " x 2".
- e. Part 2.3.B.13.a delete this item; it is not required in South Dakota.

- f. Part 2.3.C.9 omit this item. Refer to Part 2.5.C as modified by this addendum.
- g. Part 2.3.C.10.g omit this item reveals are not required.
- h. Part 2.3.C.10.k change handrail dimensions to $\frac{1}{4}$ " x 2" in lieu of $\frac{1}{2}$ " x 2".
- i. Part 2.3.C.13.a delete this item; it is not required in South Dakota.
- j. Part 2.5.C omit reference to security features. Each elevator shall be provided with an independent service key switch at the car control station.
- k. Part 2.9.E omit reference to Hall Lanterns. Provide car riding lanterns in lieu of hall lanterns.

6. SHEET 1.10 – GENERAL INFORMATION

- a. Abbreviations Schedule
 - i. Add: VIF = Verify in Field

7. SHEET 1.21 – PHASING PLAN

a. Incorporate Revised Sheet 1.21 – PHASING PLAN (DATED 8/23/22)

8. SHEET 1.20 – CODE PLAN

- a. In room B105 STAFF WORK ROOM, shift Fire Extinguisher Fully Recess cabinet to the west to avoid the electrical panel. Coordinate location.
- b. Near Door B207 provide a Fire Extinguisher Fully Recessed In lieu of Fire Extinguisher Semi-Recessed.

9. SHEET 2.30 – SITE PLAN

a. Incorporate Revised Sheet 2.30 – SITE PLAN (DATED 8/23/22)

10. SHEET 2.60 – GRADING PLAN

a. Incorporate Revised Sheet 2.60 – GRADING PLAN (DATED 8/24/22)

11. SHEET 2.31 – SITE DETAILS

a. Incorporate Revised Sheet 2.31 – SITE DETAILS (DATED 8/23/22)

12. SHEET 3.1.1 – LOWER LEVEL FOOTING AND FOUNDATION PLAN

a. The Temporary Earth Retainage System located at the south side of the existing building shall be shifted south to maintain sidewalk egress from the west doors at the existing vestibule to State Street.

13. SHEET 4.11 – BASEMENT FLOOR PLAN – AREA A & B

a. At Room ELEV. E01 – change elevator door width to 3'-6" in lieu of 6'-0".

- b. West jamb of frame for Door A35 shall be 1'-4" east of the west wall in lieu of 8".
- c. At interior basement walls backfilled with geofoam provide waterproofing membrane on the unexcavated side of the wall, full depth of backfill. Coordinate locations with sheet 3.21 FOOTINGS AND FOUNDATION AND FIRST FLOOR FRAMING

14. SHEET 4.15 – FIRST & SECOND FLOOR PLAN – AREA B

- a. FIRST FLOOR PLAN AREA B
 - i. ROOM B116 PRESCHOOL, provide 25 cubbies total, reference sheet 4.23 FIRST & SECOND FINISH FLOOR PLAN AREA, FIRST FLOOR FINISH PLAN AREA B
 - ii. At (25) cubbies provide a continuous PLAM top on the top finished edge

15. SHEET 4.30 – DOOR SCHEDULE

a. Change Door A35 to painted Hollow Metal in lieu of stained Solid Core Wood. Change hardware group of this door to Hardware Group #6 in lieu of Hardware Group #5.

16. SHEET 5.21 – BUILDING SECTIONS

a. Incorporate Revised Sheet 5.21 – BUILDING SECTIONS (DATED 8/23/22)

17. SHEET 5.30 – ENLARGED ELEVATOR PLANS AND SECTIONS

a. Details 1, 2, and 3 – change elevator door width to 3'-6" in lieu of 6'-0"

18. SHEET 5.50 – ROOF PLAN

a. Incorporate Revised Sheet 5.50 – ROOF PLAN (DATED 8/23/22)

19. SHEET 5.52 – ROOF DETAILS

a. Incorporate Revised Sheet 5.52 – ROOF DETAILS (DATED 8/23/22)

20. SHEET 6.13 – FIRST & SECOND FLOOR REFLECTED CEILING PLAN- AREA B

- a. At RCP SECOND FLOOR AREA B
 - i. FIELD COORDINATE SIZE AND LOCATION OF BOILER VENT CHASE
 - 1. Chase will need to be sealed to the deck and enclosed to avoid leaking into the above ceiling plenum.

b. At RCP – FIRST FLOOR – AREA B and RCP – SECOND FLOOR – AREA B

i. In the southwest corner of room B116 and B207 the mechanical chase furring wall needs to be sealed to the floor and deck to insure no leaking into the above ceiling plenum.

MECHANICAL ITEMS:

21. Replace SECTION 230800 – 1.06 Unit Ventilators with the following:

Furnish and install heating-cooling-ventilating type unit ventilators of size, type and capacity as shown on the Drawings. Unit shall be complete with blower, 2 pipe heating and cooling coil, drain pan, ultra low leak outside dampers, return air dampers, permanent type cleanable filter, internal face and bypass.

Units with draw-through coils shall have face and bypass dampers and damper actuator. Coordinate the actuator requirements with Section 230900 – Automatic Temperature Control/Building Automation System.

The units frames shall be unitized, welded construction, with structural elements aligned in an assembly jig prior to welding, to insure proper dimensions, rigidity, and squareness. Frames assembled with mechanical fasteners shall not be acceptable. Internal sheet metal parts shall be constructed of galvanized steel to inhibit corrosion. The exterior cabinet panels shall be fabricated from furniture grade steel of not less than 16 gauge steel with no sharp edges and no unsightly screw heads and shall receive an electro-statically applied powder paint, and be oven baked with environmentally friendly thermosetting urethane powder finish to provide a high quality appearance. Finish color shall be as selected by Architect from manufacturer's standard colors.

The interior areas of the unit ventilator shall be insulated for sound attenuation and to provide protection against condensation of moisture on or within the unit. The unit shall be provided with an ultra-quiet sound package consisting of acoustically matched low speed fans to fan housing, sound barrier insulation material (non-fiberglass) adhered to the bottom underside of the unit top panel, sides of the fan section and sound absorbing insulation (non-fiberglass) material applied to the unit front panel. Units shall be constructed so that testing and troubleshooting can be accomplished in the end pockets of operating units, without affecting the normal air flow patterns through the unit.

Each unit shall be provided with a non-fused power interrupt switch that disconnects the main power to the unit for servicing or when the unit is to be shut down for an extended period of time. The fan motor and controls shall have the hot line(s) protected by factory installed cartridge type fuse(s).

The manufacturer shall have published cataloged sound data available for the engineer's review. Sound data shall have been conducted using a qualified reverberant room per ANSI S1.31 and ANSI S12.32. Sound test data shall be based on standard cfm at standard air (fixed density of air at 70F) in accordance with ARI procedures based upon ARI 350. The engineer shall have the right to reject equipment not conforming to the specified manufacturer's sound data, as a minimum.

Floor mounted units shall have an integral pipe tunnel for convenient crossover of piping and a built-in metal wire raceway from right end compartment to left end compartment to contain any line voltage electrical wiring separate from the air stream. Line voltage wiring shall not be touchable in the air stream of the unit during normal maintenance procedures of oiling bearings or motors. Unit shall come standard with a factory installed and wired disconnect switch.

The units top surface shall be supplied with a charcoal bronze textured finish, to resist scuffing, reduce glare and help hide fingerprints. Unit top shall have two access doors, one at each end

(for access to motor and bearings for easy servicing). The front and ends shall be available in a selection of architecturally pleasing colors by the manufacturer, for selection by the Architect. The discharge grille shall be constructed of continuous rounded edge steel bars to provide 10 degree vertical deflection. A 1/4" painted, galvanized mesh screen shall be provided beneath the discharge grille to protect against objects being dropped through the discharge grille. The unit top and grille shall be of a modular construction so that it is removable for service and maintenance. The unit front surface shall be comprised of three separate removable panels. The controls and piping shall be accessible without removing the entire front panel. Panels shall be secured to the unit with recessed, tamper resistant, Allen head fasteners. Slots for flat head screwdrivers shall not be acceptable as tamper resistant.

Unit ventilators and companion accessory sections shall be a nominal thirty inches (30") high, and shall be furnished with front leveling legs to compensate for uneven floor surfaces. Standard cabinet depth units (16-5/8") shall have ½", 1.5# dual density mat faced glass-fiber blanket insulation on the rear of the unit to serve as a thermal barrier and to form an airtight seal between the wall and the unit, when the unit is lagged to the wall. In addition, horizontal metal extensions at the top and bottom of the unit shall have a 1" wide compressible gasket to form an airtight seal between the wall and the unit. The unit shall come with four predrilled mounting holes and washers for lagging to the wall.

Coil assembly shall be of a modular construction so that it is removeable from the front of the unit. All coils shall be installed in a draw through position to assure uniform air distribution over the full-face area of the coil, and an even unit discharge temperature. All heating and cooling coils shall be constructed with copper tubes and mechanically bonded aluminum corrugated plate type fins. All coils shall have aluminum individual unshared fin surfaces. An air break shall exist between coils. Water heating and cooling coils shall be furnished with a threaded drain plug at the lowest point and a manual air vent at the high point of the coil. A factory installed low temperature freezestat shall be provided on the leaving edge of the water heating coil in a wave-like configuration to sense multiple locations and shall react to possible freezing conditions. The unit-mounted controls shall incorporate this device.

All units (either heating only, heat/cool, cool only or reheat) shall come furnished with an insulated drain pan constructed of galvanized steel. A drain outlet shall be provided on both ends of the drain pan with one outlet capped. The drain hand of connection shall be easily field-reversed by relocating the cap to the opposite end without disassembly of the unit or movement of the unit drain pan. The drain pan shall be able to be sloped in either direction for proper condensate removal. Drain shall be provided with a secondary, overflow drain connection on both ends of the pan.

The fan and motor assembly shall be of a low speed design to assure maximum quietness and efficiency. Fans shall be double-inlet, forward-curved, centrifugal type with offset aerodynamic blades. Fans and shaft shall be statically and dynamically balanced as an assembly in the unit before shipment. Fan housings shall be constructed of galvanized steel incorporating logarithmic expansion for quiet operation. Fan and motor assembly shall be of the direct drive type. Belt drive fans shall not be allowed. Motors shall be 208 volt, single phase, 60Hz, ECM with auto reset internal thermal overload device designed specifically for unit ventilator operation. Motors

shall be located out of the conditioned air stream. All components of the fan/motor assembly shall be removable from the top of floor-mounted units. Units shall have sleeve type motor and fan shaft bearings, and shall not require oiling more than annually. All bearings shall be located out of the airstream. Bearings in the air stream are not acceptable.

Each unit shall be provided with a factory-installed metal blockoff to ensure all air is drawn from the filter through the coil. This shall be in addition to the outside front panel.

Each unit shall be provided with separate room air and outdoor air dampers. The room air damper shall be two-piece, double-wall construction fabricated from aluminum, and be counterbalanced against backpressure to close by gusts of wind pressure, thereby preventing outdoor air from blowing directly into the room. The outdoor air damper shall be two piece, double wall construction fabricated from galvanized steel, with ½" thick, 1½ lb. density glassfiber insulation encapsulated between the welded blade halves for rigidity and to inhibit corrosion. The outdoor air damper shall have additional foam insulation on the exterior surface damper blade and on the ends of the outdoor air chamber. A single blade damper, which can be twisted and will leak air, will not be considered. Dampers shall be fitted with blended mohair seals along all sealing edges. Pressure adhesive sponge neoprene or plastic clip-on brush type sealers for damper seals are not acceptable. Rubber type gasket using pressure adhesive for fastening to metal and exposed to the outside air is not acceptable. Dampers shall use the turned-metal principle on long closing ends with no metal-to-metal contact for proper sealing. The damper shaft shall be mechanically fastened to the blade, and shall operate in bearings made of nylon or other material which does not require lubrication.

Each unit ventilator shall be equipped with a one-piece filter located to provide filtration of the return air/outdoor air mixture, in lieu of separate filters for each air stream. The entire filter surface must be useable for filtration of 100% room air or 100% of outdoor air. The filter shall be easily accessible from the front, and removable in one piece without removal of the unit return air damper stop. The unit shall ship with a factory installed 1" thick fiberglass, single-use type.

All units shall get field installed controls. See specification section 230900.

Outdoor air intake louver shall be provided by unit ventilator manufacturer except as otherwise noted on the drawings. Provide outdoor air intake louver for all unit ventilators that are located in the new construction areas. Masonry wall intake louver shall be constructed with horizontal chevron type blades. Provide weep holes in the louver frame and diamond pattern expanded aluminum bird screen on the interior side. Louver shall be fabricated of extruded aluminum 6063-T5. The intake assembly and frame shall be 16 ga. horizontal chevron type aluminum blades in a 12 ga. frame, with manufacturer's oven baked powder paint finish and color for selection by the Architect. Unit ventilators installed in the existing building shall make use of the existing unit ventilator outdoor air intake louvers.

Unit capacities shall be as scheduled on the Drawings.

Unit Ventilators shall be Daikin, Trane, AAF, Nesbitt, Carrier, Dunham Bush or equal.

EXISTING BOILER VENTING:

Provide factory-built modular connector, manifold and stack system that is tested and listed by the Underwriters' Laboratories, Inc. for use with building heating equipment and appliances which produce exhaust flue gases at a temperature not exceeding 1400°F (Fahrenheit) under continuous operating conditions when burning gaseous or liquid fuels as described in NFPA-211. The vent system shall be UL 103 and UL 2561 positive pressure tested and listed to 60 inches internal water column pressure. Additionally, the vent shall be UL1738 tested and listed as Special Gas Vent for Category II, III and IV appliances.

The UL listed fiber insulated flue gas vent system shall have skin temperatures that have been obtained by Underwriters Laboratories (UL) test procedures. The published surface temperatures shall be the result of the UL103 1000° Fahrenheit chimney test.

The double wall flue system shall have a 316L-PCM stainless steel inner liner (24 GA minimum) and a 304 stainless steel outer jacket (24 GA minimum). The materials and construction of the modular sections and accessories shall be as specified by the terms of the product's UL listing. The ceramic fiber insulation between the inner and outer jacket shall be a nominal 2-inch thick.

The vent sections and fittings shall be joined by clamping a U Band over the mating male/female flanges of adjacent components. The male flange connection shall have an integrated graphite seal. The inner liner shall be the structural load bearing component and expansion of the liner due to changes in gas temperature shall be catered for by bellow(s) fitted, as necessary, throughout the system. Expansion length(s) can be used if no positive pressure is produced by the unit.

Connections to silencers and expansion joints shall be made with matching flanges. Matching flanges shall be of the same size, bolt hole spacing and pressure rating as the flanges to which the connections are made.

Roof penetrations shall be suitable for the specified roof construction and shall comply with the manufacturer's installation instructions.

The exhaust system shall be designed to compensate for all flue gas induced thermal expansion.

When installed according to the manufacturer's installation instructions, the flue system and its supporting system shall resist side loads at least 1.5 times greater than the weight per foot of the piping for both horizontal and vertical portions of the system.

The prefabricated flue system shall be installed according to the manufacturer's installation instructions and shall conform to all applicable state and local codes.

Provide all modular straight sections, fittings, supports, guides, expansion joints, guy sections, guy tensioners, roof thimbles, roof flashings, storm collars and stack cap terminations as required to provide a complete system per the manufacturer's installation instructions

The entire flue system from the appliance outlet to the termination point, including all accessories, except as noted, shall be from one manufacturer.

The vertical stack termination shall be no less than two feet above any portion of the building within ten feet of the stack penetration (see NFPA-211).

Roof penetrations shall be suitable for the specified roof construction and shall comply with the manufacturer's installation instructions.

The prefabricated flue system shall be warranted against functional failure due to defects in material and manufacturer's workmanship for a period of 15 years from date of installation.

Product specification requirements shall be met by using ENERVEX PowerStack EPS exhaust flue or equivalent as approved by the engineer.

23. DRAWING SHEET 8.12 – SCHEDULES

- a. PLUMBING FIXTURE SCHEDULE:
 - i. Add plumbing fixtures L-2 & SK-6. See attached drawing sheet.

b. FAN SCHEDULE:

- i. EF-A201 & EF-A202 Motors shall be variable speed direct drive with 0-10v input for BAS control. See attached drawing sheet.
- ii. RF-1 & RF-2: Provide relief fans for AHU-1 system. See attached drawing sheets.
- iii. EF-A101, EF-A111, EF-A115A, EF-A122, EF-B108, & EF-B209 shall be variable speed direct drive ECM with variable speed adjustment dial on the motor.
- c. UNIT VENTILATOR SCHEDULE:
 - i. Voltage shall be 120 in lieu of 208. See attached drawing sheet.

24. DRAWING SHEET 8.22 – FIRST FLOOR PLAN – DEMOLITION – PLUMBING

- a. Remove sinks, gas turrets and associated piping under Add Alternate #5. See attached sheet.
- b. Existing toilet rooms: Remove plumbing fixtures and associated piping. See attached sheet.

25. <u>DRAWING SHEET 8.23 – SECOND FLOOR PLAN – DEMOLITION – PLUMBING & HEATING</u>

a. Science Classroom – Remove sinks, gas turrets and associated piping under add alternate #5. See attached sheet.

26. DRAWING SHEET 8.31 – UNDERFLOOR PLAN – AREA B – PLUMBING & HEATING

a. Add electric water cooler & associated piping. See attached sheet.

27. DRAWING SHEET 8.32 - GROUND FLOOR PLAN - AREA A - PLUMBING & HEATING

- a. KITCH STOR A34 Add sink designation SK-6. See attached sheet.
- b. Add note #47 to flexible below floor piping. See attached sheet.

28. <u>DRAWING SHEET 8.33 – FIRST FLOOR PLAN – AREA A – PLUMBING & HEATING</u> AND ENLARGED FIRST FLOOR PLAN – AREA A – PLUMBING & HEATING

a. Add piping to serve new science room plumbing fixtures under Add Alternate #5. See attached sheet.

29. DRAWING SHEET 8.34 – FIRST FLOOR PLAN – AREA B – PLUMBING & HEATING

a. Add electric water cooler & associated piping. See attached sheet.

30. <u>DRAWING SHEET 8.35 – SECOND FLOOR PLAN – AREA A – ALTERNATE #5 – PLUMBING & HEATING</u>

a. Add plumbing fixtures and associated piping under Add Alternate #5. See attached sheet.

31. <u>DRAWING SHEET 8.36 – SECOND FLOOR PLAN – AREA B – PLUMBING & HEATING</u>

a. Add electric water cooler & associated piping. See attached sheet.

32. DRAWING SHEET 8.50 – GROUND FLOOR PLAN – AREA A – VENTILATION & A/C

a. Restroom A33: provide thermostat to control radiant heat.

33. <u>DRAWING SHEET 8.51 – GROUND FLOOR PLAN – AREA B – VENTILATION & A/C</u>

a. Electrical room B002: provide thermostat to control unit heater.

34. DRAWING SHEET 8.52 – FIRST FLOOR PLAN – AREA A – VENTILATION & A/C

- a. Existing Gym O/A intake louver is 88" wide x 32" tall.
- b. Replace existing thermostats with new in Band A102, Choir A103, and Gym A104.

35. DRAWING SHEET 8.55 – SECOND FLOOR PLAN – AREA B – VENTILATION & A/C

- a. Add roof mounted relief fans RF-1 & 2. Provide with 18" insulated roof curb and motorized damper. Duct down to return air duct and provide insulation wrap.
- b. Add thermostat in Jan B209 to control fin tube heat. See attached drawing sheet.

ELECTRICAL ITEMS:

36. <u>DRAWING SHEETS 9.10, 9.20, 9.21, 9.22, 9.31, 9.32, 9.33, 9.34, 9.36, 9.37, 9.40, 9.41, AND 9.42</u>

a. See the attached revision drawings.

GENERAL APPROVALS:

The following material or equipment furnished by the manufacturers listed may be substituted as equal, providing that each item, material, and piece of equipment conforms to the design and requirements of the Drawings and Project Manual.

SECTION	ITEM	MANUFACTURER
07423	COMPOSITE METAL PANEL	Alfrex FR Metal Composite
		Material – Custom Color Match to
		UNA-CLAD – Regal RED

105513	METAL LOCKERS	Scranton Products
		Duralife Metal Lockers
220000 10		36
230800 - 1.0	:	Magic Aire
230800 - 1.1	7 Air Cooled Chiller	Dunham Bush
230800 - 1.1	8 Fan Powered VAV Terminals	Greenheck
230800 - 1.1	9 VAV/Reheat Terminals	Greenheck

END OF ADDENDUM



Architecture Incorporated

Attendee	Email	Phone Number
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Array Swirt	andy @ Sw. Stair Inc. Com	605-339-2681
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MARKSOM	ζ	
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Architecture Incorporated

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Planholders List - St. Mary Catholic School Addition Remodel Dell Rapids, South Dakota

Architecture Incorporated Project Number: 2788

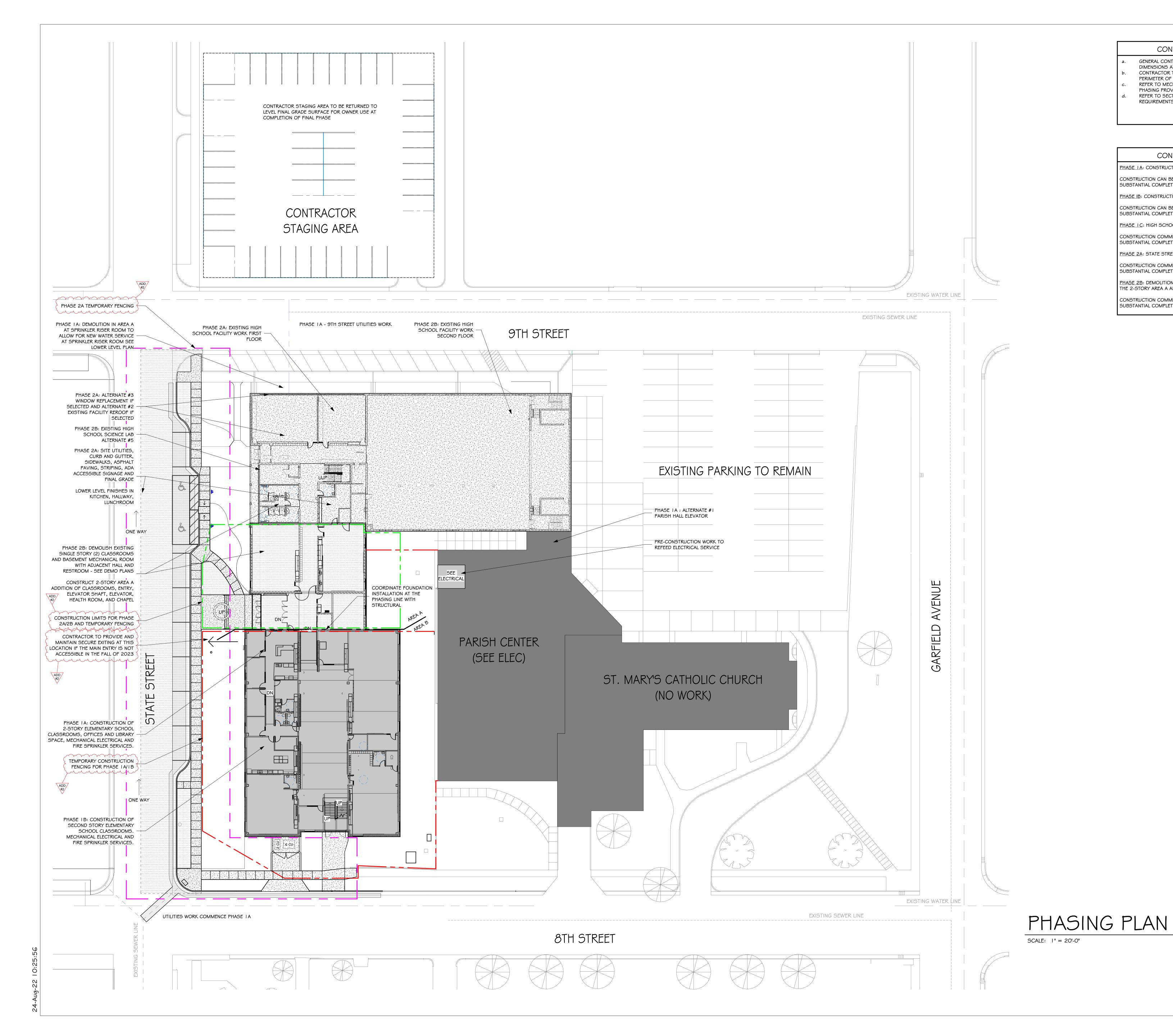
BID DATE: 2:00 p.m. CT on Thursday, September 8, 2022

CATEGORY	NAME	ADDRESS1	ADDRESS2	CITY	STA	TE ZIP	PHONE	FAX	E-MAIL
A/E Consultant									
	Architecture Incorporated	415 South Main Avenue	PO Box 2140	Sioux Falls	SD	57101-2	605-339-1711	605-339-2331	mail@architecture inc.com
	Associated Consulting Engineering Inc	340 South Phillips Avenue		Sioux Falls	SD	57104	605-335-3720	605-335-6220	acei@aceinet.com
	Structural Engineering Associates, Inc.	401 East 8th Street	Suite 201	Sioux Falls	SD	57103-7	605-334-0188	605-334-1669	greg@seasd.com
Electrical									
	Dells Electric	329 East 3rd Street		Dell Rapids	SD	57022	605-428-5700	605-428-4038	Mike.Carpenter@ dellselectric.com
Exchange									
	Aberdeen Builders Exchange	302 North Jackson Street		Aberdeen	SD	57401	605-225-4733		dakotabuild@mid conetwork.com
	Bismarck Builders Exchange	215 Airport Road	Ste 202	Bismarck	ND	58504	701-258-4215	701-258-1391	info@bbxnd.com
	CMD Group	30 Technology Parkway South	Suite 100	Norcrosse	GA	30092			docprocessing@c mdgroup.com
	Construction Industry Center	2771 Plant Street	PO Box 1227	Rapid City	SD	57702	605-343-5252	605-343-4591	constructionindust rycenter@gmail.c om
	Fargo-Moorhead Builders	1010 Page Drive		Fargo	ND	58106	701-237-6772	701-232-1653	info@fmbx.org

Tuesday, August 16, 2022

CATEGORY	NAME	ADDRESS1	ADDRESS2	CITY	STA	FE ZIP	PHONE	FAX	E-MAIL
	Lincoln Builders Bureau	5910 South 58th Street	t Suite C	Lincoln	NE	68516	402-421-8332	402-421-8334	info@buildersbure au.com
	Master Builders of Iowa	221 Park Street		Des Moines	IA	50309	515-288-8904		cuhelp@mbi.build
	Minnesota Builders Exchange	1123 Glenwood Avenue		Minneapolis	MN	55405	612-381-2620	612-381-2621	addenda@mbex.or
	Omaha Plan Room	4159 South 94th Street	t	Omaha	NE	68127	402-991-6906	408-884-7055	lisa.shockey@oma haplanroom.com
	Plains Builders Exchange	220 North Kiwanis Avenue		Sioux Falls	SD	57104	605-334-8886	605-334-0112	info@plainsbuilde rs.com
	Sioux City Construction League	3900 Stadium Drive		Sioux City	IA	51102	712-255-9730	712-255-3915	scplanroom@siou xlan.net
	Sioux Falls Builders Exchange	1418 C Avenue		Sioux Falls	SD	57104	605-357-8687	605-357-8655	info@sfbx.com
General Contractor									
	Fiegen Construction	3712 S. Western Avenue	Suite 200	Sioux Falls	SD	57105	605-335-6000	605-335-3346	marshal@fiegenco nstruction.com
	Gil Haugan Construction	200 East 60th Street North		Sioux Falls	SD	57104	605-336-6082	605-336-0051	ALundquist@gilh augan.com
	Hoogendoorn Construction (AK)	47895 US Highway 18	;	Canton	SD	57013	605-987-4419	605-987-4485	arick@hoogendoo rnconstruction.co m
	Peska Construction (Jordan Lardy)	2700 North 4th Avenue		Sioux Falls	SD	57104	605-334-0173	605-334-0102	j.lardy@peskacons truction.com
<u>Owner</u>									
	St. Mary Catholic School	Fr. Shane Stevens	608 East 8th Street	Dell Rapids	SD	57022	605-428-5591		

Tuesday, August 16, 2022



CONSTRUCTION PHASING NOTES

- . GENERAL CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE. REPORT DISCREPANCIES TO ARCHITECT. CONTRACTOR TO PROVIDE 6'-O" TEMPORARY CHAINLINK FENCE AT
- PERIMETER OF CONSTRUCTION.

 c. REFER TO MECHANICAL /ELECTRICAL / CIVIL DRAWINGS FOR SPECIFIC PHASING PROVISIONS.

 d. REFER TO SECTION 01 1000 FOR ADDITIONAL PHASING DESCRIPTION REQUIREMENTS.

CONSTRUCTION PHASING NOTES

PHASE IA: CONSTRUCTION OF THE ELEMENTARY / ADMINISTRATION AREA

CONSTRUCTION CAN BEGIN UPON NOTICE TO PROCEED - SEPTEMBER 26, 2022
SUBSTANTIAL COMPLETION NO LATER THAN AUGUST 15, 2023

PHASE IB: CONSTRUCTION OF THE ELEMENTARY SECOND FLOOR

CONSTRUCTION CAN BEGIN UPON NOTICE TO PROCEED - SEPTEMBER 26, 2022 SUBSTANTIAL COMPLETION NO LATER THAN DECEMBER 15, 2023

PHASE IC: HIGH SCHOOL ELECTRICAL REFEED

CONSTRUCTION COMMENCES DECEMBER 22, 2022 SUBSTANTIAL COMPLETION NO LATER THAN DECEMBER 30, 2022

CONSTRUCTION COMMENCES MAY 10, 2023
SUBSTANTIAL COMPLETION NO LATER THAN AUGUST 15, 2023

PHASE 2B: DEMOLITION OF THE EXISTING SINGLE STORY AND RECONSTRUCTION OF THE 2-STORY AREA A ADDITION

PHASE 2A: STATE STREET SITE WORK. HIGH SCHOOL LOWER LEVEL FINISHES WORK

CONSTRUCTION COMMENCES MAY 10, 2023 SUBSTANTIAL COMPLETION NO LATER THAN DECEMBER 15, 2023

Architecture Incorporated

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

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



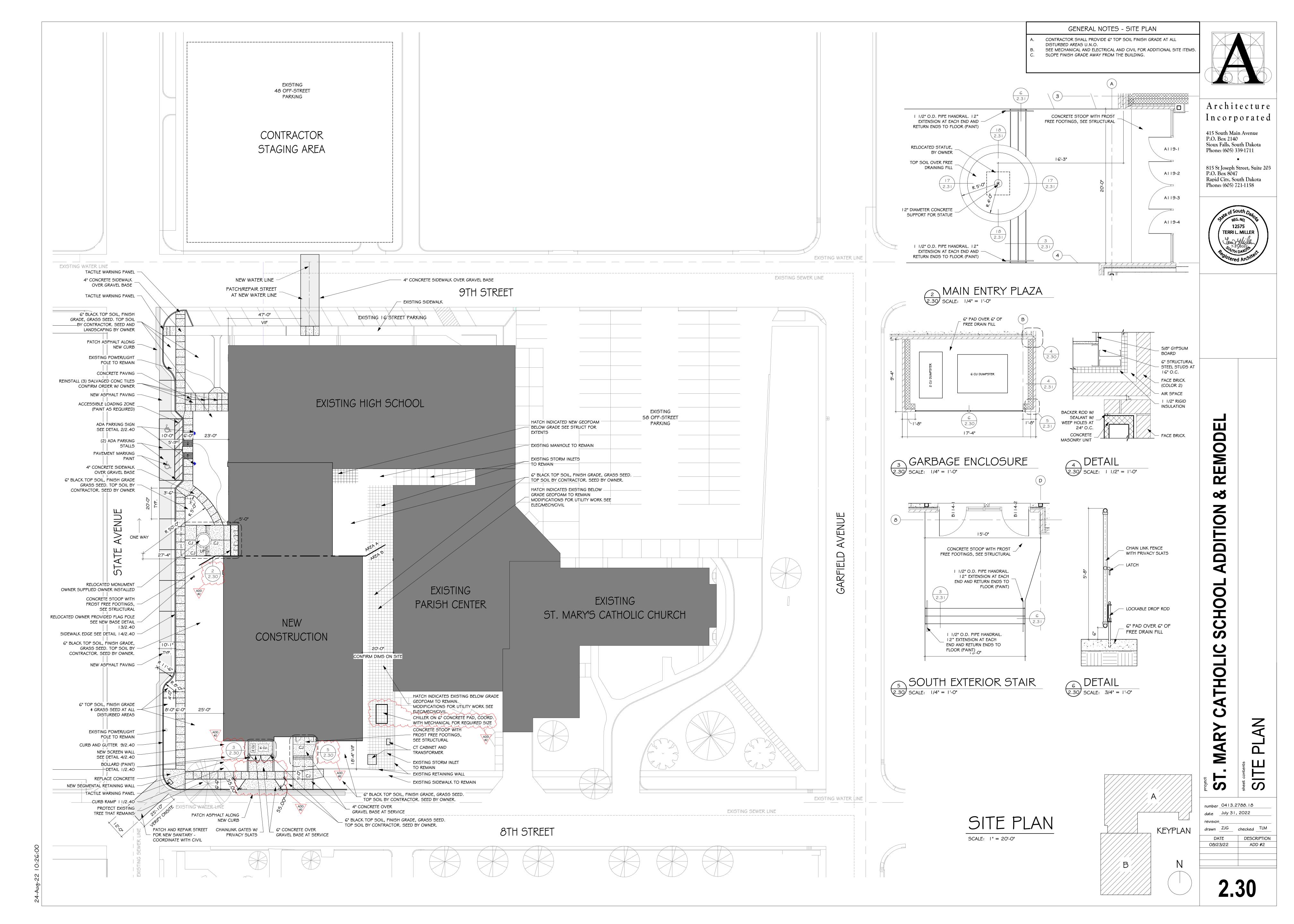
MARY CATHOLIC SCHOOL ADDITION & REMODEI

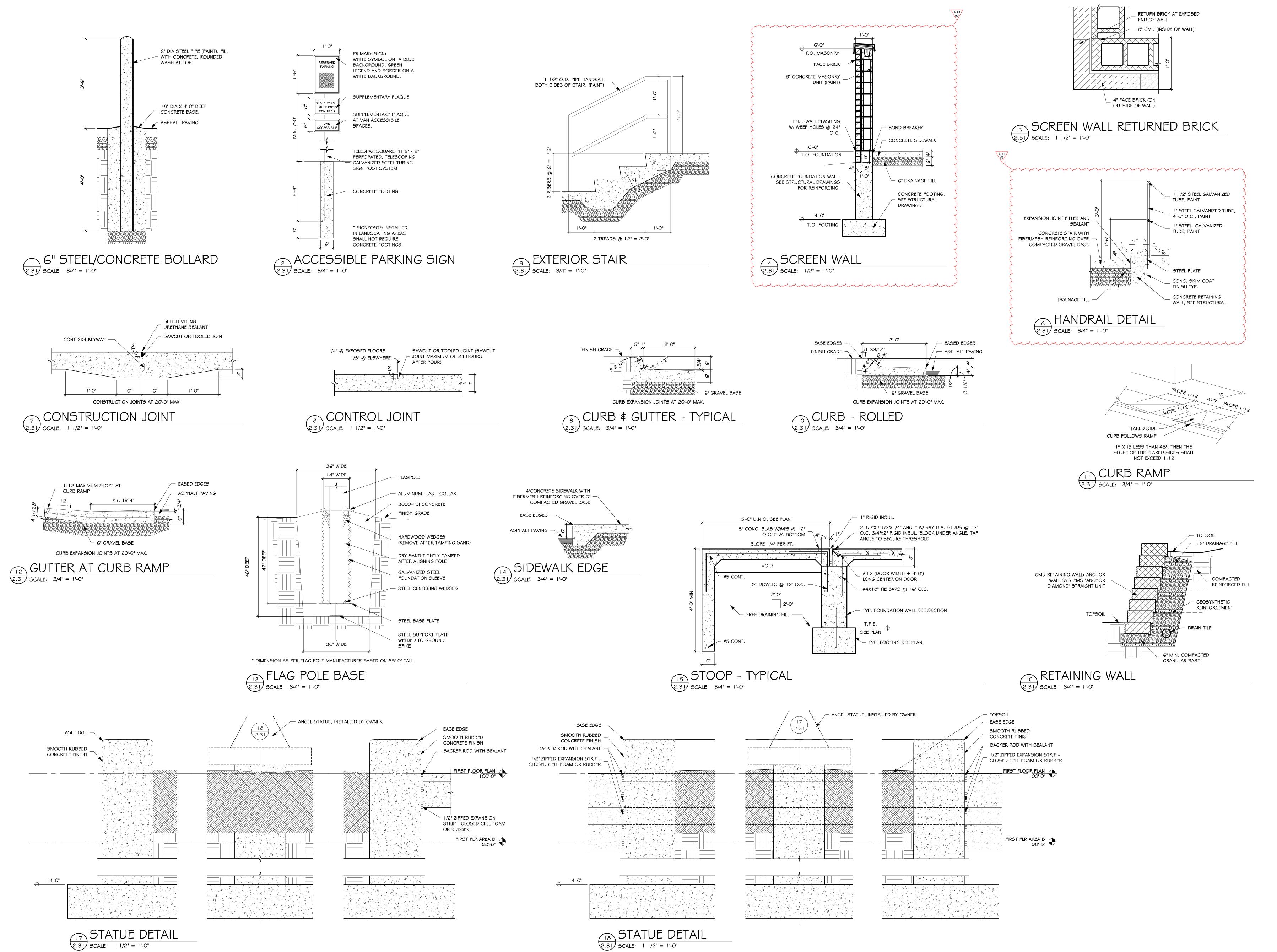
A KEYPLAN

number 0413.2788.18
date July 31, 2022
revision
drawn TLM checked TLM

DATE DESCRIPTION
08/23/22 ADD #2

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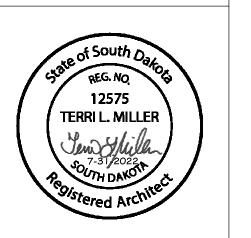




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ST. MARY CATHOLIC SCHOOL ADDITION & REMODE

sheet contents
SITE DETAIL

number 0413.2788.18

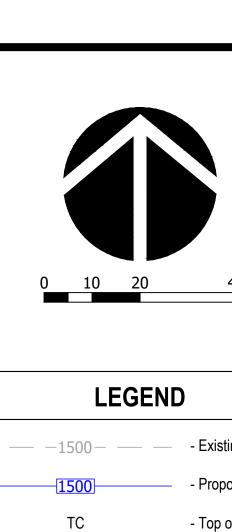
date July 31, 2022

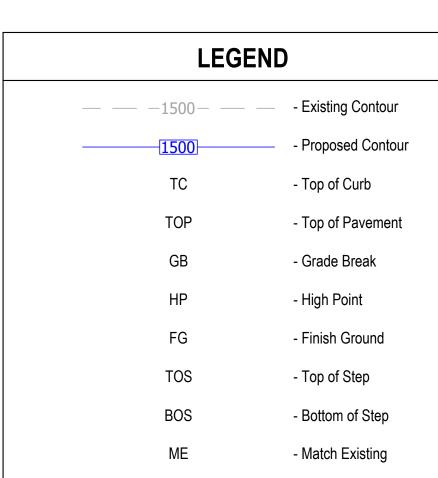
revision

drawn AMH checked TLM

DATE DESCRIPTION

08/23/22 ADD #2



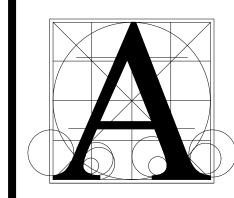


GENERAL NOTES

1. Contractor to verify curb and gutter match point elevations prior to curb and gutter installation.

BENCHMARK

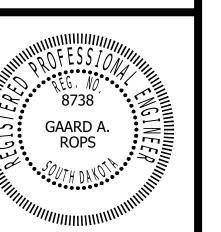
Top nut hydrant northwest corner 8th Street & State Avenue Elev. 1549.78



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ARY'S SCHOOL ADDITION

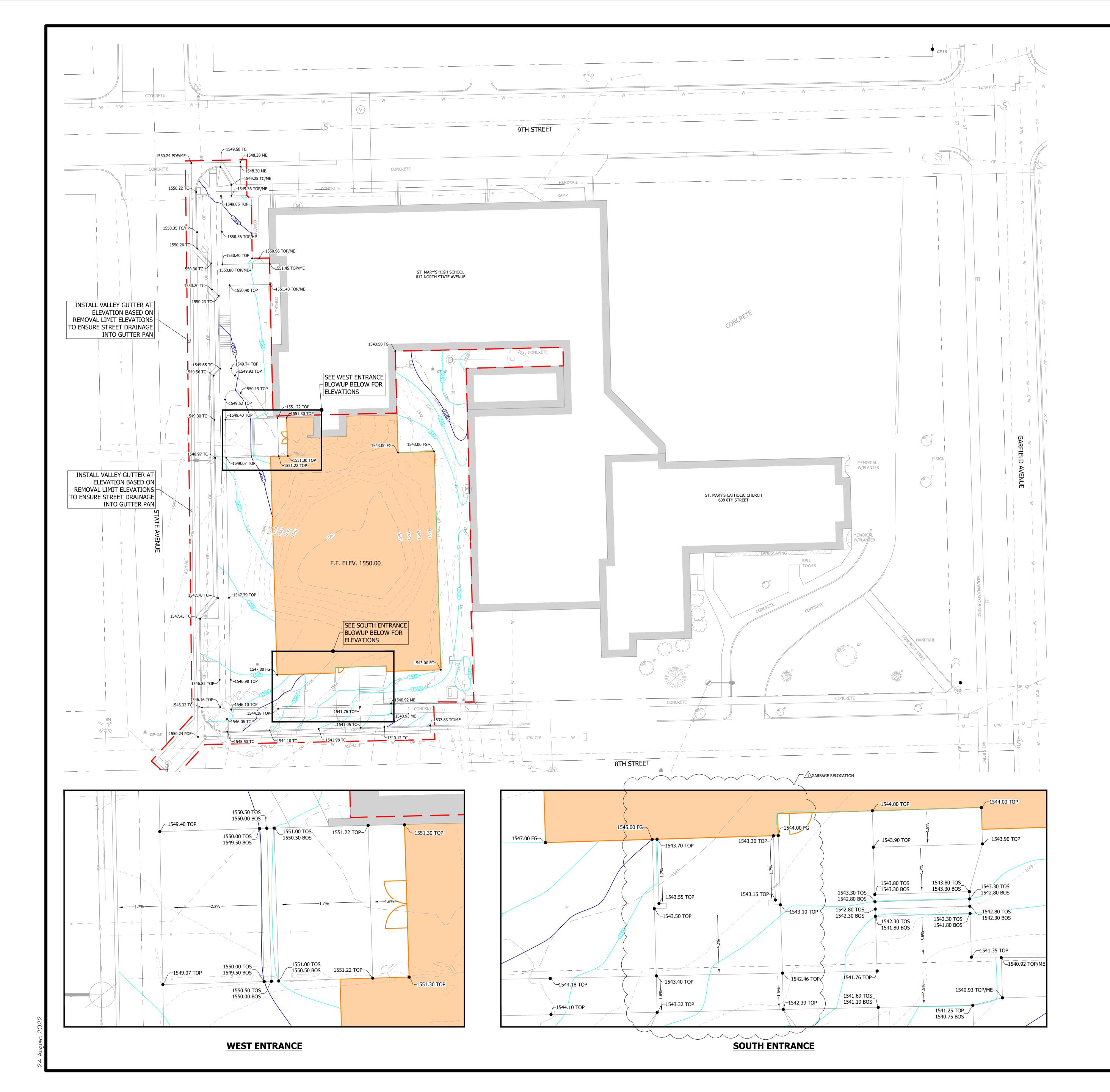
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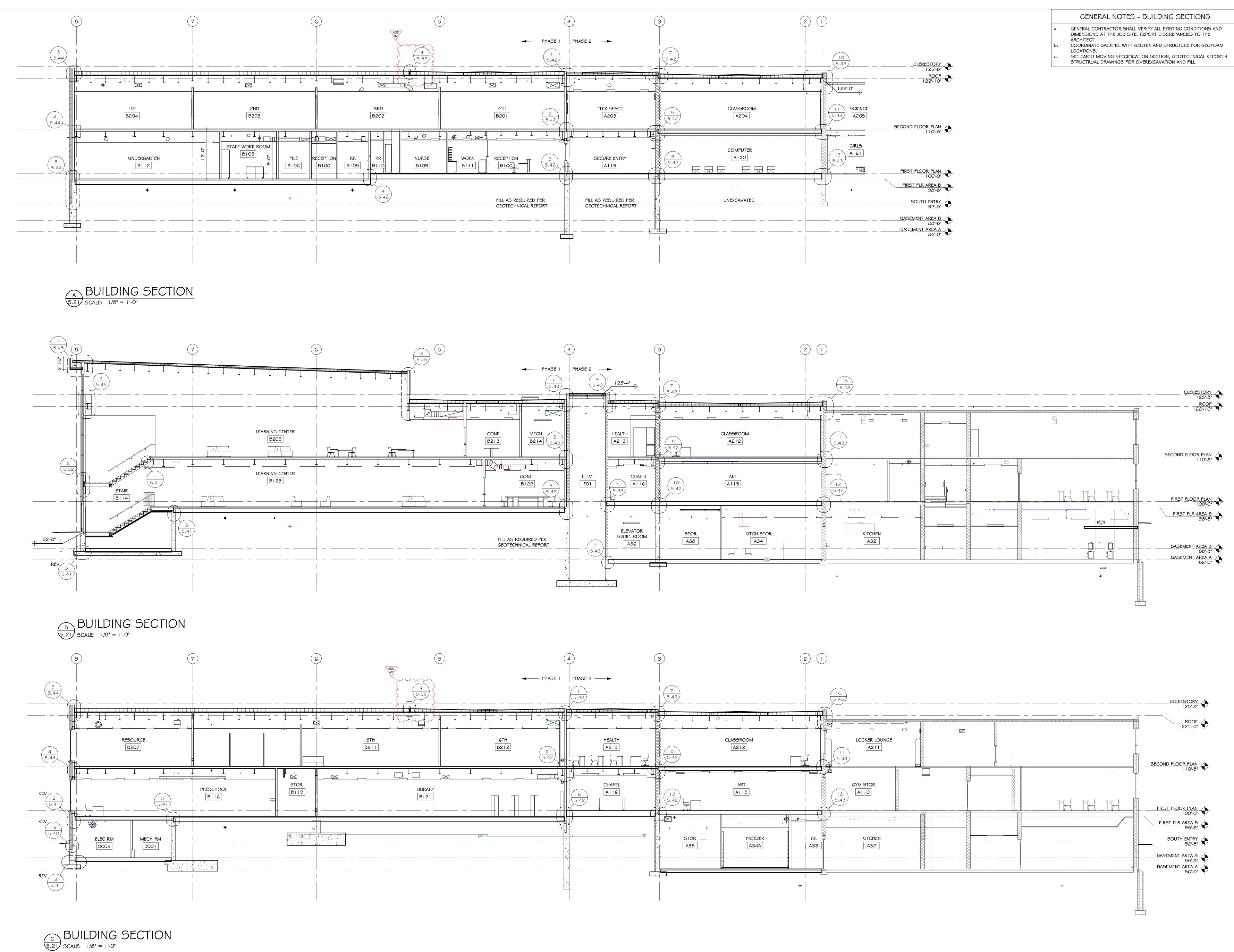
date JULY 31, 2022

revision _____
drawn PK checked GAR

O. DATE DESCRIPTION

1 8/24/22 ADD #2





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IARY CATHOLIC SCHOOL ADDITION & REMODEL

number 0413.2788.18

date July 31, 2022

revision

drawn ZJG checked TLM

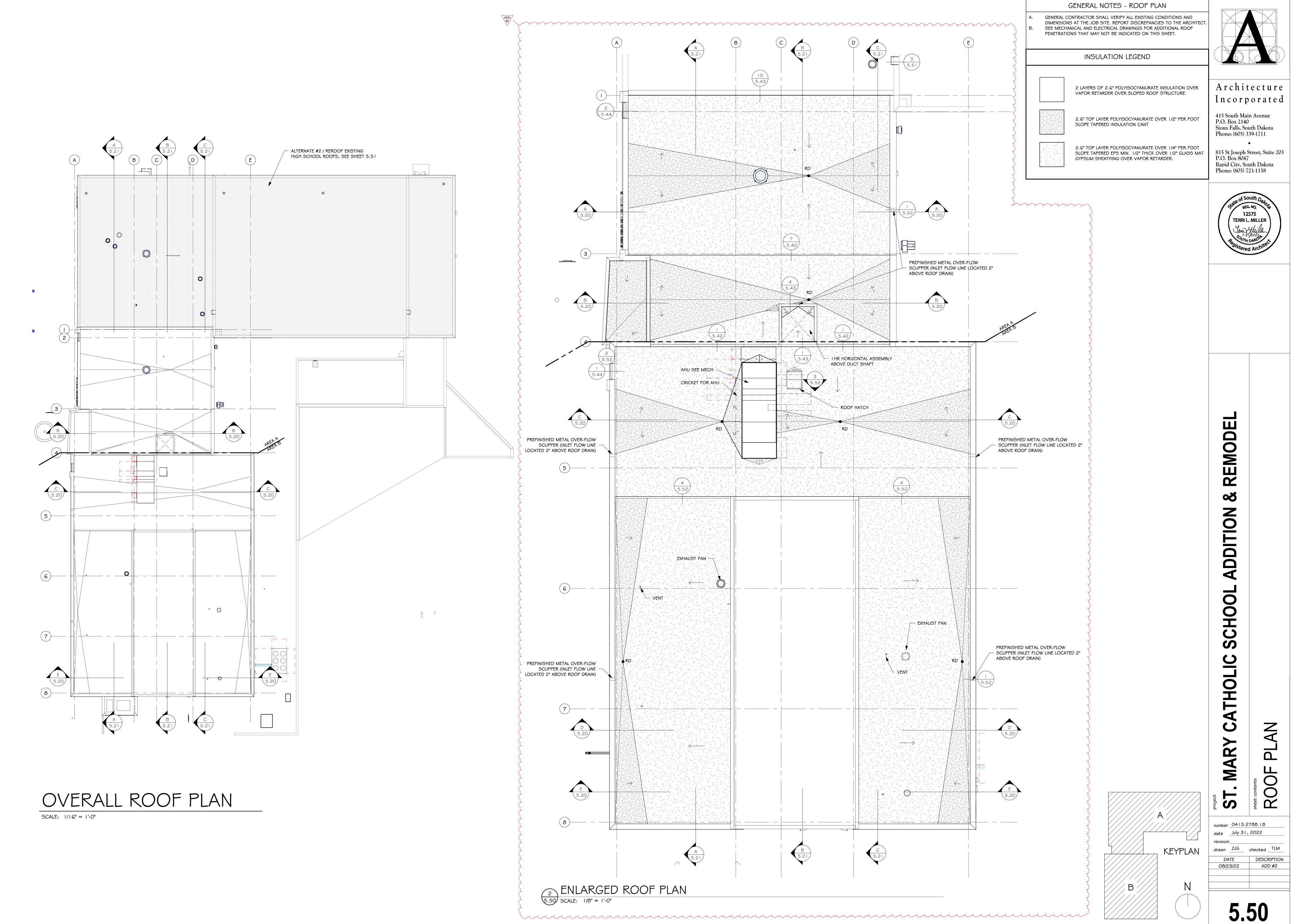
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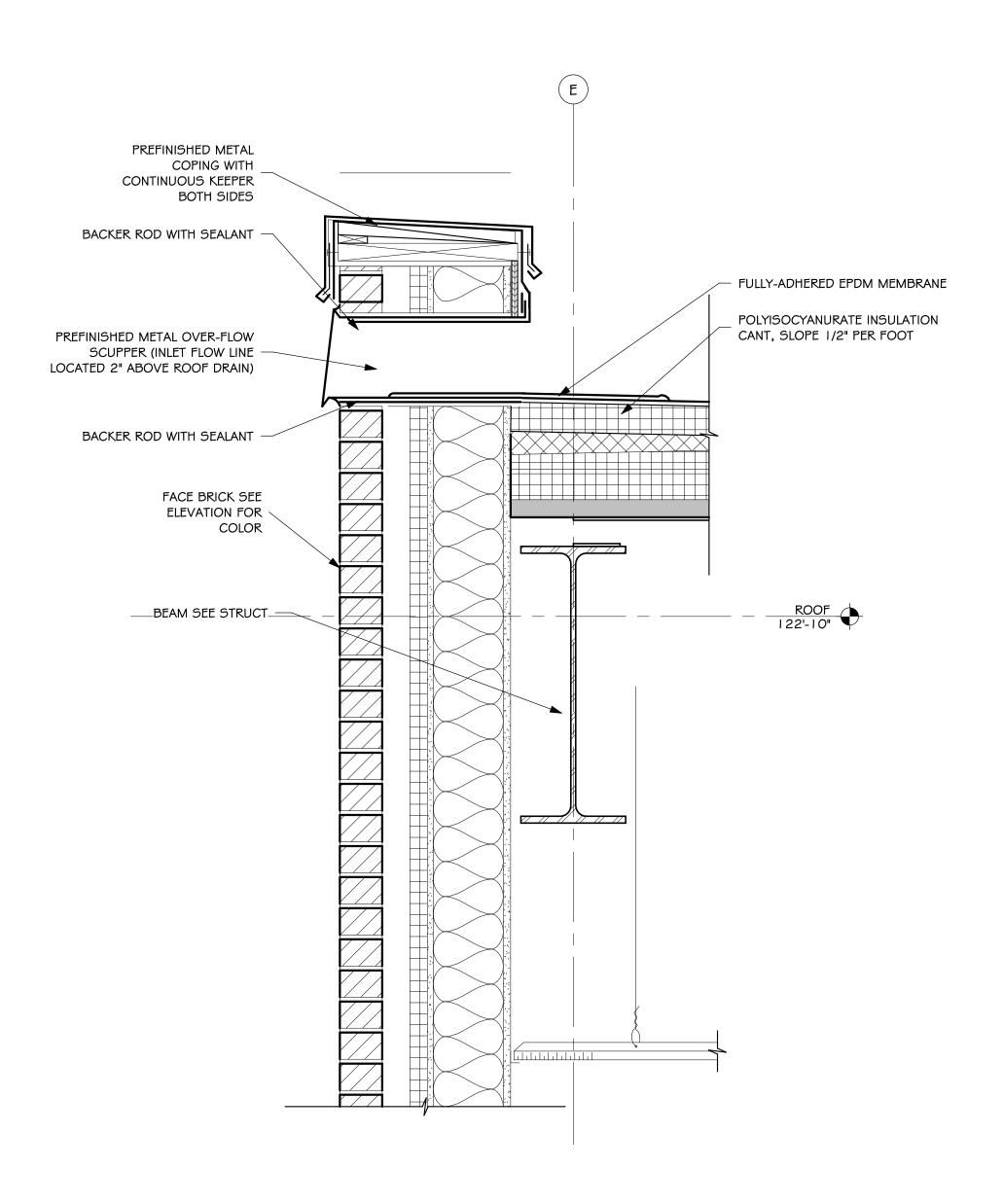
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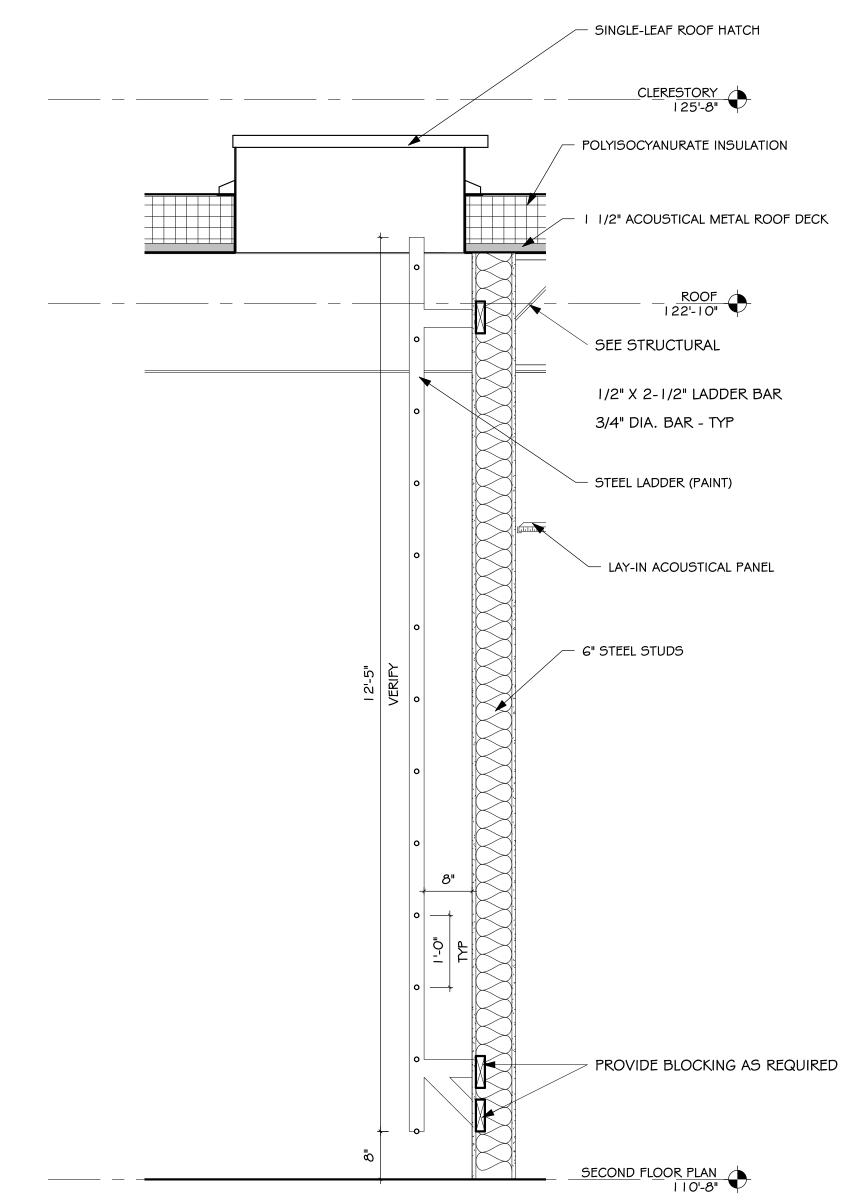
08/23/22

DESCRIPTION

ADD #2







www.www.www.www.www.www.

TREATED WOOD BLOCKING

─ 3 5/8" STEEL STUDS

/ I/2" TREATED PLYWOOD

ADHERED MEMBRANE

FULLY-ADHERED EPDM

POLYISOCYANURATE

POLYISOCYANURATE INSULATION

RETARDER

INSULATION OVER VAPOR

FLASHING

MEMBRANE

PREFINISHED METAL
COPING WITH CONTINUOUS -

KEEPER BOTH SIDES

1/2" TREATED PLYWOOD

ADHERED MEMBRANE

FULLY-ADHERED EPDM

POLYISOCYANURATE

POLYISOCYANURATE

RETARDER

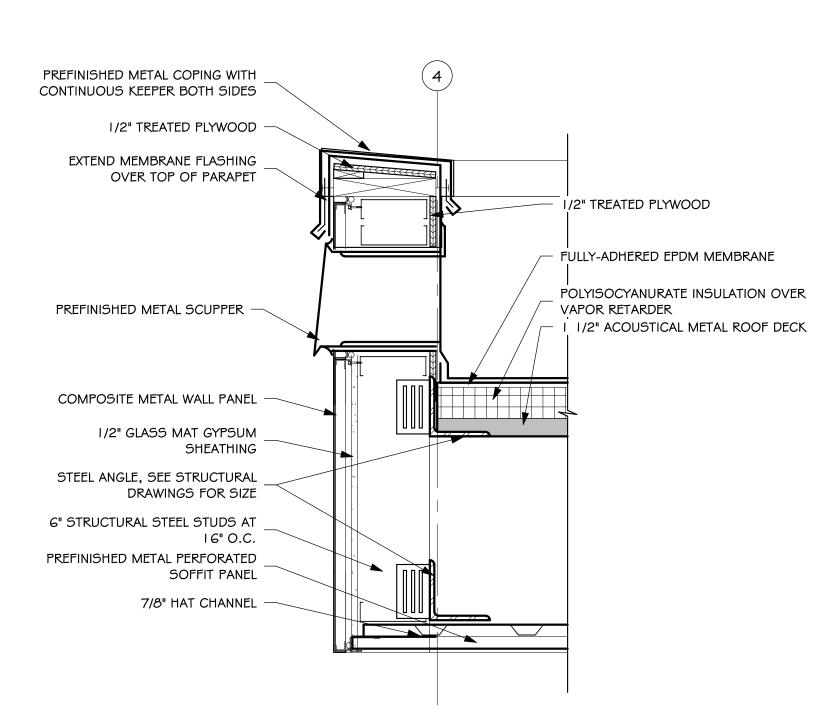
INSULATION

INSULATION OVER VAPOR

FLASHING

MEMBRANE

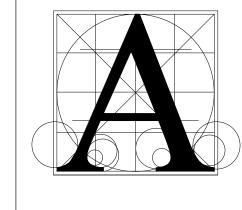




SCUPPER DETAIL

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





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. MARY CATHOLIC SCHOOL ADDITION & REMODEL

sheet contents
ROOF DETAILS

 number
 O413.2788.18

 date
 July 31, 2022

 revision
 drawn
 ZJG checked TLM

 DATE
 DESCRIPTION

 08/23/22
 ADD #2

MCI	MOD CINIC	ZUDNI	71006 24	7042M4 DC CC			CW HD MTD 5' O" AEE
		ZURN	Z1996-24-	Z843M1-RC-CS		<u> </u>	CW HB MTD 5'-0" AFF
014	FLOOR MOUNTED		SDL-HH-MH	W/VACUUM BREAKER	DD 4 00 0D 4 FT	114.05	47.04.0 P. P. T. 1.1.1
SK-		ELKAY	PSR-1716	CHICAGO	BRASSCRAFT	LK-35	17 GA. C.P. P-TRAP
	STEEL, SINGLE			895-317-E3	KTSCR19C	STRAINER	
	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 SINK-STAINLESS	ELKAY	PSR-1919	CHICAGO	BRASSCRAFT	LK-35	STRIEM SIDEKICK SOLIDS
	STEEL, SINGLE			895-317-E3	KTSCR19C	STRAINER	INTERCEPTOR
	COMP ART ROOM						17 GA. C.P. P-TRAP
SK-	4 SINK-STAINLESS	ELKAY	LRAD-1919	CHICAGO	BRASSCRAFT	LK-35	STRIEM SIDEKICK SOLIDS
	STEEL, SINGLE		-OCD	895-317-E3	KTSCR19C	STRAINER	INTERCEPTOR, MAX AFF IN REAR
	COMP ART ROOM						OF CASEWORK, OFFSET WASTE,
							TRUBRO WASTE & WATER &
							INTERCEPTOR PROTECTOR
							17 GA. C.P. P-TRAP
SK-	5 SINK-INTEGRAL			CHICAGO	BRASSCRAFT	BASKET	ACID RESISTANT P-TRAP
	BOWL SCIENCE RO	MOC		930-369	KTSCR19C	STRAINER	STREIM LB-2 NEUTRALIZATION
$\boldsymbol{\uparrow}\boldsymbol{\uparrow}$	λ	λ	\mathcal{T}	\cdots	$\sim\sim$	$\overline{}$	TANK SET ON FLOOR OF CABINET
SK-	6 SINK	AMERICAN	0355.012	CHICAGO 895-317	BRASSCRAFT	GRID DRAIN	17 GA. C.P. P-TRAP

	SK-5	SINK-INTEGRAL			CHICAGO	BRASSCRAFT	BASKET	ACID RESISTANT P-TRAP
_		BOWL SCIENCE ROOM			930-369	KTSCR19C	STRAINER	STREIM LB-2 NEUTRALIZATION
	mm	λ	λ	λ	hhhhhh	mmm	λ	TANK SET ON FLOOR OF CABINET
>	SK-6	SINK	AMERICAN	0355.012	CHICAGO 895-317	BRASSCRAFT	GRID DRAIN	17 GA. C.P. P-TRAP
(WALL HUNG	STANDARD			KTSCR19C		JOSAM SERIES 17000 CARRIER
		HANDI.						W/TRUBRO WASTE & WATER PIPE
٦								PROTECTOR, OFFSET WASTE ARM
-₹	SH-1	SHOWER	BEST BATH	LSS3838A5B	POWERS	34444	2" FLOOR DRAIN	ALL METAL TRIM, SHOWER HEAD
		HANDI			E710-0-0-0-1-0-W			ALL METAL TRIM, SHOWER HEAD ON SLIDE BAR, SS HORZ GRAB
								BAR, FOLDUP SEAT, FLEXIBLE
								DAM, REMOVEABLE THRESHOLD
	EWC-1	ELECTRIC WATER	ELKAY	LZSTL8WSSF		BRASSCRAFT		17 GA. C.P. P-TRAP
		COOLER WALL MTD				KTSCR19C		LKAPREZL APRON
		DUAL HEIGHT						
		W/BOTTLE ELL						

	COOLER WALL MID			KISCKI9C	LKAPREZL APRON
	DUAL HEIGHT				
	W/BOTTLE FILL				
ESH-1	COMBINATION	BRADLEY	S19-120SS	 	 MIXING VALVE LAWLER
	EYEWASH & SHOWER		S19-220SC		MODEL NO. 911E
					INLET CHECK VALVES
GT-1	GAS TURRET	CHICAGO	982-909-	 	 GAS SERVICE
		FAUCETS	957-3KAGV		
UB-1	ICE MACHINE	SIOUX CHIEF	696-	 	 MOUNT AT 36" AFF
	UTILTIY BOX		G1010MF		SHOCK ABSORBERS
UB-2	WASHING MACHINE	SIOUX CHIEF	696-	 	 P-TRAP, SHOCK ABSORBERS
	UTILTIY BOX		G2313MF		

1. HANDICAPPED FLUSH VALVES SHALL BE ADA COMPLIANT.

REMARKS:

- 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 EL-154 PER 8 FIXTURES IN PLUMBING CHASE.
- PROVIDE & INSTALL INTERCONNECTING LOW VOLTAGE WIRING AND CONNECTIONS TO SENSORS.

PUMP	MANUF	MODEL	DESCRIPTION	STYLE	SIZE	GPM	HEAD	МОТО	R		ELEC.		SUCTION	DISCH	REMARKS
NO.		NO.	BESON HOW	01122	0.22	0	(FT)	MHP	BHP	RPM	VOLTS	РΗ	SIZE	SIZE	
P-1	B&G	80	PRIMARY HEATING	IN-LINE	3X3X7C	120	25	1.5	1.11	1750	208	3	3	3	1
P-2	B&G	80	PRIMARY HEATING	IN-LINE	3X3X7C	120	25	1.5	1.11	1750	208	3	3	3	1
P-3	B&G	1510	SECONDARY HEATING	BASE	2BD	210	80	7.5	5.76	1750	208	3	2 1/2	2	1,2,6
P-4	B&G	1510	SECONDARY HEATING	BASE	2BD	210	80	7.5	5.76	1750	208	3	2 1/2	2	1,2,6
P-5	B&G	PL-36	RHW (HW)	IN-LINE		20	20	1/6		3300	115	1	3/4	3/4	3
P-6	B&G	PL-30	RHW (140 HW)	IN-LINE		10	15	1/12		2650	115	1	3/4	3/4	3
P-7	WEIL	1422	DRAIN TILE SUMP	SUBMERSIBLE		20	25	3/4		1750	115	1		1 1/2	5
P-8	WEIL	1422	DRAIN TILE SUMP	SUBMERSIBLE		20	25	3/4		1750	115	1		1 1/2	5
P-9	WEIL	1411	SEWAGE EJECTOR	SUBMERSIBLE	09DLS	30	20	1/2		1750	115	1		2	
P-10	WEIL	1422	ELEVATOR SUMP	SUBMERSIBLE		10	27	3/4		1750	115	1		1 1/2	4
P-11	-	-	CHILLER	BASE		209	62	7.5		3600	208	3			

REMARKS: 1. PUMP CAPACITY IS BASED UPON 70% WATER/30% PROPYLENE GLYCOL

- 2. PUMP SHALL BE NON-OVERLOADING.3. BRONZE BODY.
- 4. OIL GUARD PUMP SWITCH AND PANEL SYSTEM WITH OIL RESISTANT CORD AND PLUG.

 5. PROVIDE CONTROLLER WITH NORMAL AND HIGH WATER ELOAT SWITCHES, ALIDIRLE AL
- 5. PROVIDE CONTROLLER WITH NORMAL AND HIGH WATER FLOAT SWITCHES, AUDIBLE ALARM, BEACON, ALARM OUTPUT TO BAS, ELECTRICAL DISCONNECT AND APPLICABLE SIMPLEX OR DUPLEX CONTROL.

6. PROVIDE A VFD.

REMARKS:

FIN	TUBE RAD	IATION	SCHEDULE							
UNIT	MANUFACTURER	STYLE	MODEL NO.	CAPACITY			ROWS	ENCL.		REMARKS
NO.				BTUH/FT.	EWT	GPM		HEIGHT	HEIGHT	
FT-1	STERLING	JVB-S	C3/4-435	2280	180	4.5	3	24	-	1,2
FT-2	STERLING	BARE	C3/4-435	575	180	2.5	1	NA	84	1,2

LINIT HEATER SCHEDULE

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

2. REFER TO CONSTRUCTION DOCUMENTS FOR LENGTHS OF RADIATION.

UNII	HEATER S	SCHE	:DU	JLE												
UNIT	MANUFACTURER	UNIT	TYPE			CFM		IOTOR(S)			HEATIN	-	_			REMARKS
NO.		SIZE		LOCATION	LOCATION		RPM	FAN HP-1	FAN HP-2	V/PH	MBH	EWT	LWT	GPM	WPD	1
CUH-A16	BEACON/MORRIS	06	RC	FT	FB	630	1050	1/10		115/1	35.6	180	150	2.8	5'	1,2
CUH-A18	BEACON/MORRIS	04	WI	FT	FB	430	1050	1/10		115/1	22.1	180	150	1.8	5'	1,2
CUH-A19	BEACON/MORRIS	04	WI	FT	FB	430	1050	1/10		115/1	22.1	180	150	1.8	5'	1,2
CUH-A22	BEACON/MORRIS	08	WI	FT	FB	860	1050	1/15	1/10	115/1	40.4	180	150	3.2	5'	1,2,4
CUH-A24	BEACON/MORRIS	04	WI	FT	FB	430	1050	1/10		115/1	22.1	180	150	1.8	5'	1,2
CUH-A25	BEACON/MORRIS	06	RC	FT	FB	630	1050	1/10		115/1	35.6	180	150	2.8	5'	1,2
CUH-A32	BEACON/MORRIS	04	WI	FT	FB	430	1050	1/10		115/1	22.1	180	150	1.8	5'	1,2
CUH-A34	BEACON/MORRIS	06	RC	FT	FB	630	1050	1/10		115/1	35.6	180	150	2.8	5'	1,2
CUH-A35	BEACON/MORRIS	04	WI	FT	FB	430	1050	1/10		115/1	22.1	180	150	1.8	5'	1,2
CUH-A100	BEACON/MORRIS	04	WI	FT	FB	430	1050	1/10		115/1	22.1	180	150	1.8	5'	1,2
CUH-A119	BEACON/MORRIS	08	SRWI	FT	FB	845	1050	1/15	1/10	115/1	64.9	180	150	5.2	5'	1,2,4
UH-A11	BEACON/MORRIS	HB-60	HP	R	F	900	1000	1/20		115/1	32.3	200	170	2.6	5'	1,3
UH-A38	BEACON/MORRIS	HB-60	HP	R	F	900	1000	1/20		115/1	32.3	200	170	2.6	5'	1,3
UH-B001	BEACON/MORRIS	HB-60	HP	R	F	900	1000	1/20		115/1	32.3	200	170	2.6	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

FRWI - FULLY RECESSED WALL INVERTED FLOW; SRW - SEMI RECESSED W. C - CEILING; RC - RECESSED CEILING; HP - HORIZONTAL PROPELLER UNIT

LOCATIONS: F - FRONT; R - REAR; B - BOTTOM; T - TOP REMARKS:

1. HEATING CAPACITY BASED ON 70% WATER/ 30% PROPYLENE GLYCOL.
2. PROVIDE TAMPER RESISTANT FASTENERS FOR ACCESS DOOR.

2. PROVIDE TAMPER RESISTANT FASTENERS FOR ACCESS DOOR.3. HANG UNIT FROM STRUCTURE WITH NEOPRENE ISOLATORS.4. UNIT SHALL HAVE A TWO ROW COIL

AIR COOLED CHILLER SCHEDULE

UNIT MANUFACTURER MODEL NO. MBH CAPACITY AIR TEMP EWT LWT WPD GPM VOLTS PH MCA PD UNLOAD (dB) WEIGHT

CH-1 DAIKIN AGZ101E 1200 95 56 44 11.8 210 208 3 456 500 4 10.33/16.1 92 7500 1-5

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

2. EER IS BASED ON ARI STANDARD CONDITIONS.3. SOUND RATING BASED ON ARI-370 OVERALL "A" WEIGHTED SOUND POWER LEVEL.

(PROVIDE EMERGENCY SHUT-OFF MUSHROOM SWITCH)

4. UNIT SHALL BE MOUNTED ON NEOPRENE OR SPRING TYPE VIBRATION ISOLATORS AS DESIGNED BY THE MANUFACTURER.
5. UNIT SHALL INCLUDE A PUMP PACKAGE. SEE PUMP SCHEDULE FOR PUMP REQUIREMENTS. PUMP SHALL BE FIELD WIRED.

BOILER SCHEDULE

 BOILER
 MANUFACTURER
 MODEL NO.
 AGA INPUT (MBH)
 AGA OUTPUT (MBH)
 OPER (MBH)
 BURNER (LBS)
 OPER. WT.
 REMARKS

 B-2
 THERMAL SOLUTIONS
 EVS-2000
 2000
 1700
 85
 208
 1
 6.6
 1615
 1

REMARKS:

1. PROVIDE CONDENSATE NEUTRALIZER.

FAN POWERED VAV TERMINAL SCHEDULE

UNIT	MANUF.	MODEL	SIZE	CFM	MIN	TERM	EXT	RAD	DISCH	MOTOR		HEATI	NG COIL					REMARK
NO.		NO.	SIZE		CFM	S.P.	S.P.	NC	NC	HP	VOLT/PH	EAT	МВН	GPM	WPD	EWT	LWT	
FP-A116	PRICE	FDCLP2	1006	840	125	0.25	0.5	26	24	1/3	120/1	69	12.4	1.3	5	180	150	1,2,3
FP-A203	PRICE	FDCLP2	5010	1110	340	0.25	0.5	37	21	2 @ 1/3	120/1	69	29.4	2.3	5	180	150	1,2,3
FP-A213	PRICE	FDCLP2	1006	400	120	0.25	0.5	26	24	1/3	120/1	69	12.3	1.3	5	180	150	1,2,3
FP-B101	PRICE	FDCLP2	1008	575	180	0.25	0.5	33	29	1/3	120/1	69	17.7	2.3	5	180	110	1,2,3
FP-B102	PRICE	FDCLP2	1006	290	90	0.25	0.5	22	21	1/3	120/1	69	8.3	0.7	5	180	150	1,2,3
FP-B105	PRICE	FDCLP2	1006	500	150	0.25	0.5	30	28	1/3	120/1	69	11.7	1	5	180	150	1,2,3
FP-B112	PRICE	FDCLP2	5010	950	290	0.25	0.5	35	20	2 @ 1/3	120/1	69	29.1	2.5	5	180	150	1,2,3
FP-B115	PRICE	FDCLP2	1006	380	120	0.25	0.5	25	22	1/3	120/1	69	7.7	0.5	5	180	110	1,2,3
FP-B116	PRICE	FDCLP2	5010	1040	320	0.25	0.5	36	20	2 @ 1/3	120/1	69	31.6	2.8	5	180	150	1,2,3
FP-B121A	PRICE	FDCLP2	5010	950	290	0.25	0.5	35	20	2 @ 1/3	120/1	69	24.8	1.8	5	180	150	1,2,3
FP-B121B	PRICE	FDCLP2	3010	820	250	0.25	0.5	30	26	1/2	120/1	69	20.9	1.9	5	180	150	1,2,3
FP-B123A	PRICE	FDCLP2	3010	900	270	0.25	0.5	31	27	1/2	120/1	69	24.9	2.7	5	180	110	1,2,3
FP-B123B	PRICE	FDCLP2	3010	900	270	0.25	0.5	31	27	1/2	120/1	69	18.8	1.5	5	180	150	1,2,3
FP-B123C	PRICE	FDCLP2	3010	900	270	0.25	0.5	31	27	1/2	120/1	69	18.8	1.5	5	180	150	1,2,3
FP-B201	PRICE	FDCLP2	5010	965	290	0.25	0.5	35	20	2 @ 1/3	120/1	69	20.5	1.3	5	180	150	1,2,3
FP-B202	PRICE	FDCLP2	5010	935	290	0.25	0.5	35	20	2 @ 1/3	120/1	69	17.6	1	5	180	110	1,2,3
FP-B203	PRICE	FDCLP2	5010	935	290	0.25	0.5	35	20	2 @ 1/3	120/1	69	17.6	1	5	180	150	1,2,3
FP-B204	PRICE	FDCLP2	5010	1115	340	0.25	0.5	37	21	2 @ 1/3	120/1	69	27.3	2	5	180	150	1,2,3
FP-B205A	PRICE	FDCLP2	5010	960	290	0.25	0.5	35	20	2 @ 1/3	120/1	69	30.3	2.7	5	180	150	1,2,3
FP-B205B	PRICE	FDCLP2	5010	960	290	0.25	0.5	35	20	2 @ 1/3	120/1	69	30.3	2.7	5	180	150	1,2,3
FP-B205C	PRICE	FDCLP2	5010	960	290	0.25	0.5	35	20	2 @ 1/3	120/1	69	41.3	6.2	5	180	150	1,2,3
FP-B206	PRICE	FDCLP2	1006	380	120	0.25	0.5	35	22	1/3	120/1	69	7.7	0.5	5	180	150	1,2,3
FP-B207	PRICE	FDCLP2	5010	960	290	0.25	0.5	35	20	2 @ 1/3	120/1	69	24.8	0.5	5	180	110	1,2,3
FP-B211	PRICE	FDCLP2	3010	910	280	0.25	0.5	31	27	1/2	120/1	69	18.9	1.5	5	180	150	1,2,3
FP-B212	PRICE	FDCLP2	3010	900	270	0.25	0.5	31	27	1/2	120/1	69	22.1	2	5	180	150	1,2,3

REMARKS:

1. SOUND DATA SHALL BE TAKEN FROM ARI STANDARD 885 (LATEST EDITION) PUBLISHED DATA @1.5" DELTA P.

2. EXT. S.P. INCLUDES COIL APD.

3. COIL CAPACITIES ARE BASED UPON CFM AND 70% WATER/30% PROPYLENE GLYCOL.

 VAV TERMINAL SCHEDULE

 UNIT NO.
 MANUF. NO.
 MODEL NO.
 INLET NO.
 CLG CFM MAX MIN MAX S.P. NC NC NC EAT MBH GPM WPD EWT LWT
 REMARKS

 VAV-A117
 PRICE
 SDV 6
 150
 50
 50
 0.5" 20
 21
 55
 2.1
 0.5
 5
 180
 150
 1,2,3

 VAV-B100
 PRICE
 SDV 8
 400
 120
 120
 0.5" 24
 25
 55
 4.5
 0.5
 5
 180
 150
 1,2,3

 VAV-B109
 PRICE
 SDV 6
 100
 30
 30
 0.5" 20
 21
 55
 1.2
 0.5
 5
 180
 150
 1,2,3

 VAV-B122
 PRICE
 SDV 6
 200
 60
 60
 0.5" 20
 21
 55
 2.3
 0.5
 5
 180
 150
 1,2,3

 VAV-B213
 PRICE
 SDV 6
 170
 60
 60
 0.5" 20
 21
 55
 2.3
 0.5
 5
 180
 150
 1,2,3

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

TERMINAL S.P. INCLUDES COIL APD.
 COIL CAPACITIES ARE BASED UPON HTG CFM AND 70% WATER/30% PROPYLENE GLYCOL

FAN MANUFACTURER MODEL NO. TYPE LOCATION CFM S.P. RPM TIP MOTOR SPEED (FPM) MHP BHP VOLTS PH (LBS)

EF-A28 GREENHECK CUE-095-VG DD UPBLAST SIDEWALL 500 0.5 1486 4232 1/6 0.1 115 1 7.5 41 1.2,3

EF-A32 GREENHECK USF-18 UTILITY SET GROUND 3000 0.845 1137 5431 1 0.69 208 3 16 209 1.2,4

EF-A33 GREENHECK SP-B110 INLINE CEILING 75 0.4 950 --- 80W 1.155 115 1 2.0 10 1

EF-A101 GREENHECK G-140-VG DD DOWNBLAST ROOF 1575 0.5 1120 4287 1/2 0.28 115 1 9.2 87 1.2

EF-A111 GREENHECK G-099-VG DD DOWNBLAST ROOF 650 0.5 1307 3827 1/4 0.13 115 1 8.3 87 1.2

EF-A115A GREENHECK G-100-VG DD DOWNBLAST ROOF 500 0.5 1164 3390 1 1/4 0.08 115 1 4.2 64 1.2

EF-A202 GREENHECK G-200-VG DD DOWNBLAST ROOF 3000 0.5 764 4275 1 0.5 208 3 9.6 113 1.2

EF-A203 GREENHECK G-200-VG DD DOWNBLAST ROOF 3000 0.5 764 4275 1 0.5 208 3 9.6 113 1.2

EF-A204 GREENHECK G-200-VG DD DOWNBLAST ROOF 3000 0.5 764 4275 1 0.5 208 3 9.6 113 1.2

EF-A205 GREENHECK G-200-VG DD DOWNBLAST ROOF 250 0.25 820 240 115 1 4.2 88 1.2

EF-B206 GREENHECK G-200-VG DD DOWNBLAST ROOF 250 0.25 820 240 114 115 1 4.2 88 1.2

EF-B208 GREENHECK G-200-VG DD DOWNBLAST ROOF 3000 0.5 764 4275 1 0.5 208 3 9.6 113 1.2

EF-B208 GREENHECK G-200-VG DD DOWNBLAST ROOF 250 0.25 820 240 114 115 1 4.2 88 1.2

EF-B208 GREENHECK G-200-VG DD DOWNBLAST ROOF 3000 0.5 764 4275 1 0.5 208 3 9.6 113 1.2

EF-B208 GREENHECK G-200-VG DD DOWNBLAST ROOF 3000 0.5 764 4275 1 0.5 208 3 9.6 113 1.2

EF-B208 GREENHECK G-200-VG DD DOWNBLAST ROOF 3000 0.5 764 4275 1 0.5 208 3 9.6 113 1.2

EF-B208 GREENHECK G-200-VG DD DOWNBLAST ROOF 3000 0.5 764 4275 1 0.5 208 3 9.6 113 1.2

EF-B209 GREENHECK G-240-VG DD DOWNBLAST ROOF 6000 0.5 779 4996 2 1.23 208 3 15.2 196 1,2

RF-2 GREENHECK G-240-VG DD DOWNBLAST ROOF 6000 0.5 779 4996 2 1.23 208 3 15.2 196 1,2

REMARKS:

PROVIDE FACTORY ELECTRICAL DISCONNECT.
 PROVIDE INSULATED ROOF CURB OR CURB ADAPTER TO RE-USE EXISTING ROOF OPENING.

3. PROVIDE FACTORY WALL MOUNTING BRACKET.4. PROVIDE FACTORY OUTLET STACK EXTENSION.

UNIT VENTILATOR SCHEDULE

UNIT MANUF. MODEL TOTAL MIN O/A MOTOR COOLING COIL
NO. CFM CFM HP (V/PH SMBH TMBH EAT LAT EWT LWT GPM WPD MBH EAT EWT LWT GPM WPD

UV-A26-1 DAIKIN UAVV9V15 1450 400 1/3 120/1 29.4 43.0 80.4/65.6 61/56.2 44 56 7.5 10 110 45 180 150 7.5 5.2 1

UV-A26-2 DAIKIN UAVV9V15 1450 400 1/3 120/1 29.5 43.1 80.4/65.7 61/56.3 44 56 7.5 10 110 45 180 150 7.5 5.2 1

UV-A26-3 DAIKIN UAVV9V15 1450 400 1/3 120/1 29.6 43.2 80.4/65.8 61/56.4 44 56 7.5 10 110 45 180 150 7.5 5.2 1

UV-A102 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A115 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A120 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A204 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A205 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A209 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A209 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A210 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A209 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A210 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A210 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A210 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A210 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

UV-A210 DAIKIN UAVV9V15 1000 330 1/3 120/1 22.6 36.7 79.5/65.6 88.6/53.6 44 56 6.5 10 94 45 180 150 6.5 4.0 1

REMARKS: 1. HEATING AND COOLING UNIT CAPACITIES ARE BASED UPON 70% WATER/30% PROPYLENE GLYCOL 2. PROVIDE FACTORY DISCONNECT SWITCH.

AHU SCHEDULE

AHU MANUF. MODEL CFM MIN O/A CFM CFM NO.

NO. CFM NO.

AHU-1 DAIKIN OAH034GDGM 16000 4400 2.50 4.5 20 15.6 208/3 DD PLENUM/30" 1480 605 80.6/65.6 54.0/53.0 500 1.00 44 56 50 13.3 610 40 115 500 0.8 180 150 43 5 MERV13 17.5 450 0.64 2 2500 1.2,3,4,6

AHU-2 DAIKIN CAH015GDGM 7500 2450 2.00 3.5 10 6.1 208/3 DD PLENUM/22.25" 1775 288 81/66.3 53.7/53.5 500 1.00 44 56 50 13.3 610 40 115 500 0.8 180 150 43 5 MERV13 17.5 450 0.64 2 2500 1.2,3,4,6

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

DIRECT DRIVE PLENUM FAN CONTROLLED BY VFD.
 ESP INCLUDES AN ALLOWANCE OF 0.5" FOR DIRTY FILTERS.
 ACCESS SHALL BE PROVIDED INTO THE FILTER SECTION, BLENDER SECTION, BETWEEN THE HEATING AND COOLING COILS AND FAN SECTION. PROVIDE 15 INCH (MIN.) DOORS AND 18 INCH (MIN.) SPACE BETWEEN COILS.

PROVIDE HEAVY DUTY 18 GAUGE STAINLESS STEEL DRAIN PANS FOR COMPLETE DRAINAGE AND WALKING TRAFFIC.

5. OUTDOOR ROOFTOP AIR HANDLER WITH 24" PIPING VESTIBULES.

6. CHILLED WATER COIL RATED AS A HEATING COIL. ONE TOTAL COIL.

FAN COIL UNIT SCHEDULE

UNIT	MANUF.	MODEL NO.	CFM	ELEC.			COOLI	NG CAPA	CITY			HEATING	G CAPACI	TY			REMARK
NO.				VOLTS	PH	MCA	MBH	GPM	WPD	EWT	EAT	MBH	GPM	WPD	EWT	EAT	
FCU-A12	DAIKIN	FCHC212	800	115	1	8.8	19.6	3.4	4.6	44	56	81.1	5.7	9.9	180	150	1,2
FCU-A13A	DAIKIN	FCHC212	800	115	1	8.8	19.6	3.4	4.6	44	56	81.1	5.7	9.9	180	150	1,2
FCU-A13B	DAIKIN	FCHC212	800	115	1	8.8	19.6	3.4	4.6	44	56	81.1	5.7	9.9	180	150	1,2
FCU-A124	DAIKIN	FCHC212	800	115	1	8.8	19.6	3.4	4.6	44	56	81.1	5.7	9.9	180	150	1,2
FCU-A210A	DAIKIN	FCHH206	600	115	1	2.0	14.9	3.0	4.6	44	56	50.4	3.0	9.9	180	150	1,2
REMARKS:											•						

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

2. PROVIDE FACTORY ELECTRICAL DISCONNECT.

WATER HEATER SCHEDULE

UNIT	MANUFACTURER	MODEL	INPUT	EFF.	RECOVERY @	ELECTRICAL		REMARKS
NO.		NO.	(MBH)		100° GPH	V/PH	FLA	
WHTR - 1	PHOENIX	PH199-119	200	96%	230	120/1	8	1,2,3
WHTR-2	PHOENIX	PH199-119	200	96%	230	120/1	8	1,2,3
REMARKS:					•			

1. ASME T & P RELIEF VALVE.
2. DIRECT VENT/SEALED COMBUSTION.

2. DIRECT VENT/SEALED COMBUSTION.
3. PROVIDE ONE AMTORL ST-12 EXPANSION TANK PER WATER HEATER.

REGISTER GRILLE & DIFFUSER SCHEDULE

SD - SINGLE DEFLECTION

DD - DOUBLE DEFLECTION

L													
	SYMBOL	MANUF.	CONSTR	MODEL	MAX	OVERALL	THROAT	NC	THROW	TOTAL PD	FRAME	PATTERNS	REMARKS
			MAT"L	NO.	CFM	SIZE	SIZE			(IN.W.G.)			
	D1	KRUEGER	S	1400	230	24/24	8"%%C	26	12	0.08	LAY-IN	4-WAY	
	D2	KRUEGER	S	1400	430	24/24	10"%%C	26	17	0.08	LAY-IN	4-WAY	
	G1	KRUEGER	Α	EGC5	1000	24/12	22/10	25		0.08	LAY-IN	1/2" GRID	
	G2	KRUEGER	Α	EGC5	1400	24/24	22/22	15		0.03	LAY-IN	1/2" GRID	
	G3	KRUEGER	Α	S80	150	8/8	6/6	16		0.05	SURFACE	SD	
	G4	KRUEGER	Α	S80	600	26/10	24/8	12		0.03	SURFACE	SD	
	R1	KRUEGER	S	880	500	26/8	24/6	21	41	0.08	SURFACE	DD	
Ī	R2	KRUEGER	S	880	600	26/10	24/8	18	35	0.06	SURFACE	DD	

A - ALUMINUM CONSTRUCTION.

S - STEEL CONSTRUCTION.

R - REGISTER
G - GRILLE
D - DIFFUSER

GENERAL NOTES:

1. THROWS ARE BASED ON TERMINAL VELOCITIES AT 50 FPM.

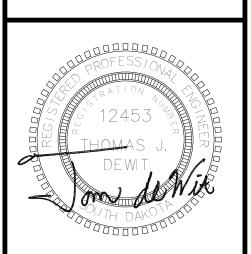
NC VALUES ARE BASED UPON A 10dB ROOM ATTENUATION.
 SEE SPECIFICATIONS FOR OPPOSED BLADE DAMPER REQUIREMENTS.

REMARKS:

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MARY'S CATHOLIC SCHOOL

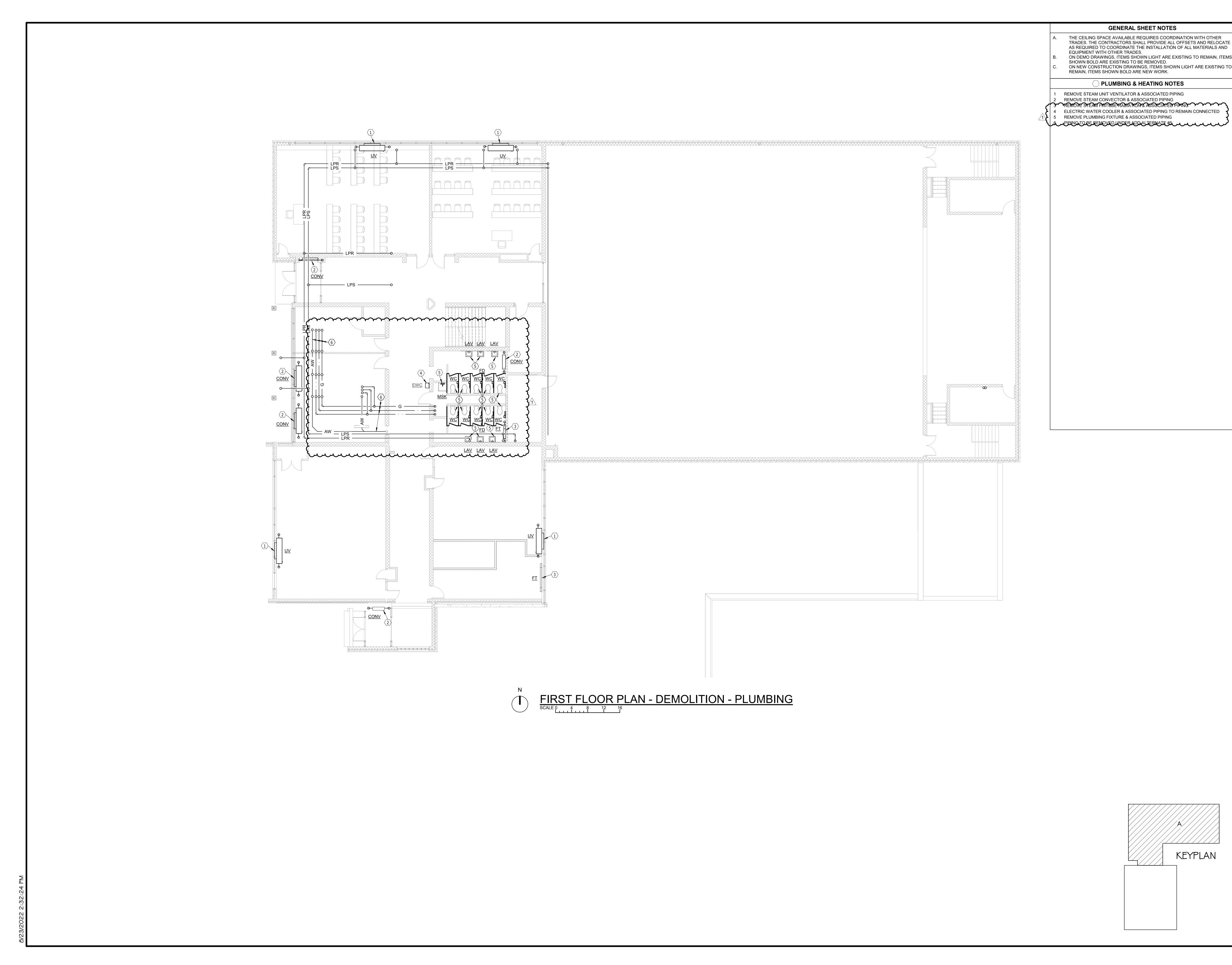
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date 7-31-2022
revision

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 DATE
 DESCRIPTION

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 8/23/22
 ADDENDUM I

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PLUMBING

DEMOLITION

number <u>0413.2788.18</u>

8/23/22 ADDENDUM I

SECOND FLOOR PLAN - DEMOLITION - PLUMBING & HEATING

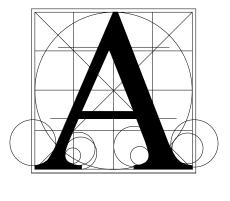
GENERAL SHEET NOTES

- 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.

○ PLUMBING & HEATING NOTES

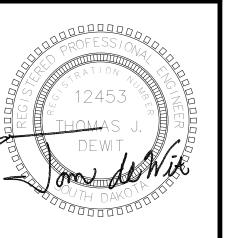
- REMOVE STEAM FINTUBE RADIATION & ASSOCIATED PIPING
- 2 REMOVE STEAM UNIT VENTILATOR & ASSOCIATED PIPING REMOVE ROOF DRAIN FOR ROOF REPLACEMENT. PIPING TO REMAIN FOR RECONNECTION
 4 REMOVE AHU PIPING 5 REMOVE SINK,, GAS TURRET & THEIR ASSOCIATED PIPING UNDER ADD ALTERNATE #5



Architecture Incorporated

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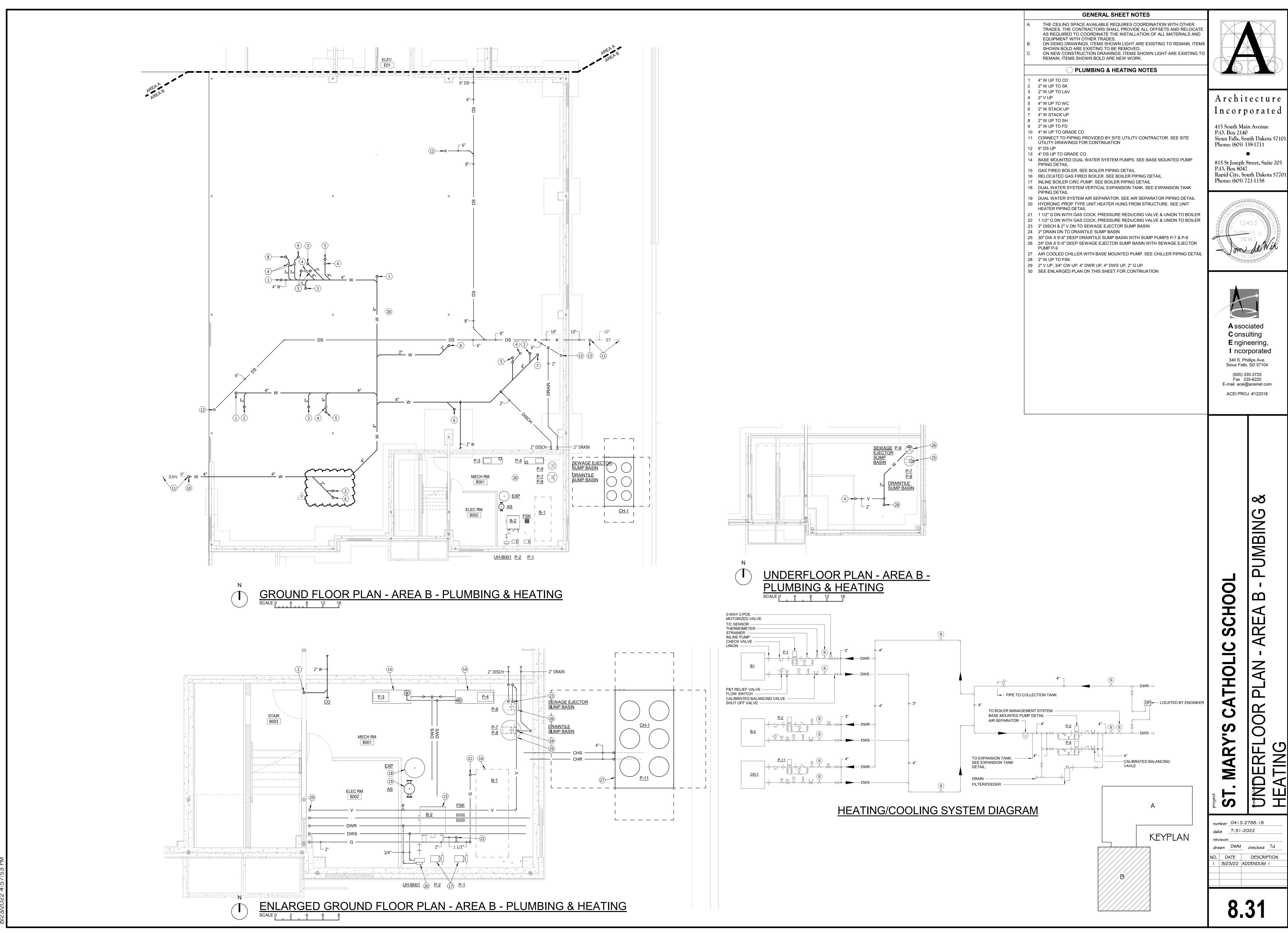
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(605) 335-3720 Fax 335-6220 E-mail acei@aceinet.com ACEI PROJ. #122018

PLUMBING

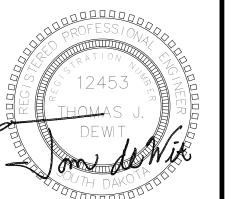
DEMOLITION

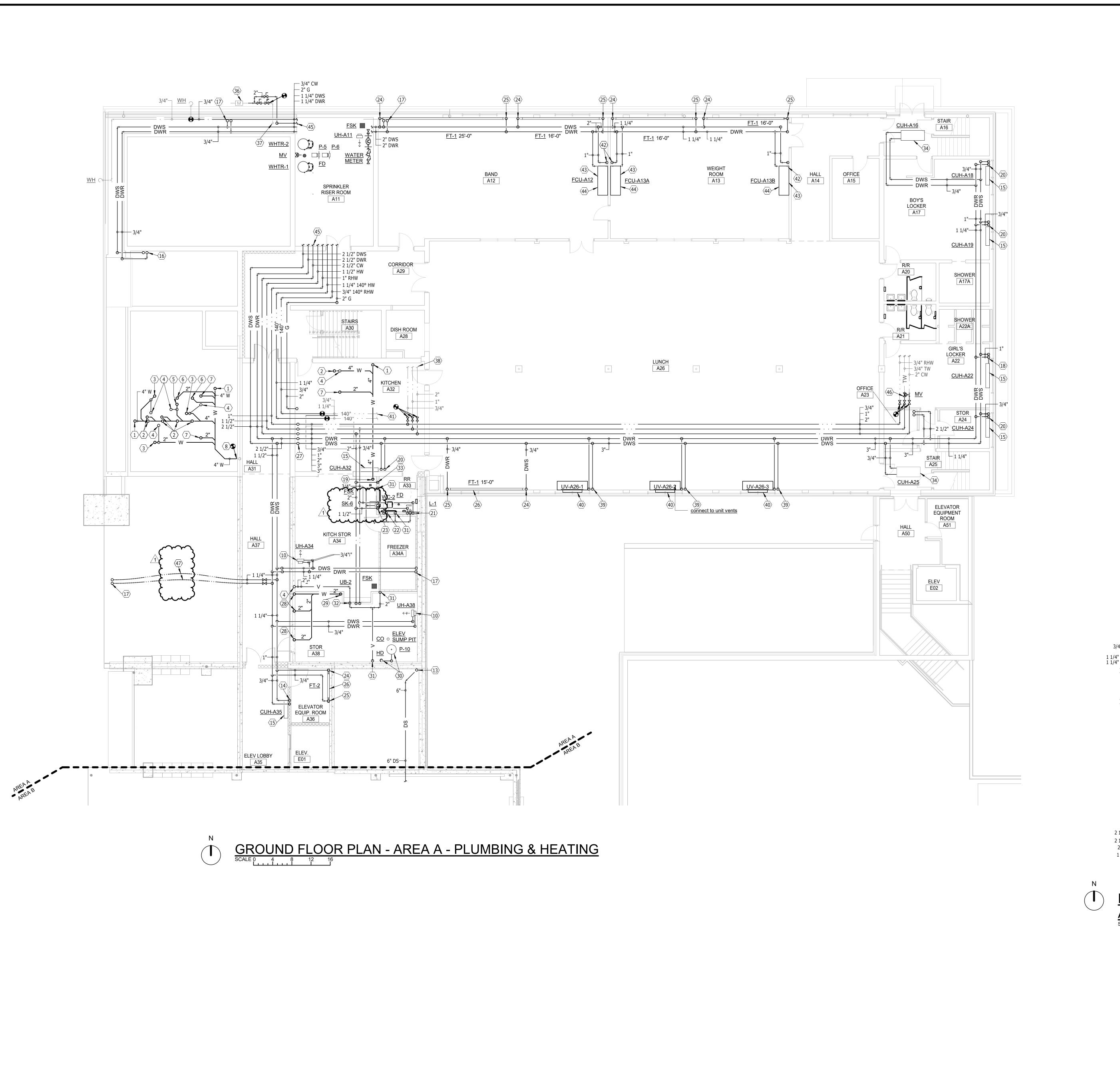
8/23/22 ADDENDUM I



Architecture

815 St Joseph Street, Suite 203





GENERAL SHEET NOTES

- A. 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 SHOWN HOLD ARE EXISTING TO REMAIN JEEMS
- EQUIPMENT WITH OTHER TRADES.

 B. ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE EXISTING TO BE REMOVED.

 C. ON NEW CONSTRUCTION DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO

REMAIN, ITEMS SHOWN BOLD ARE NEW WORK. PLUMBING & HEATING NOTES

- 1 4" W UP TO CO 2 4" W UP TO WC
- 3 2" W UP TO FD 4 2" V UP 5 3" W UP TO MSK
- 5 3" W UP TO MSK 6 2" W UP TO UR
- 7 2" W UP TO LAV
 8 CONNECT TO EXISTING PIPING. VERIFY SIZE & LOCATION PRIOR TO ASSOCIATED WORK
- 9 2 1/2" WATER METER WITH 2" REDUCED PRESSURE BACKFLOW PREVENTER
 10 HYDRONIC PROP TYPE UNIT HEATER HUNG FROM STRUCTURE. SEE UNIT
- HEATER PIPING DETAIL

 11 GAS FIRED 100 GALLON WATER HEATER, MIXING VAVLE & RECIRC PUMPS.
- SEE WATER HEATER PIPING DETAIL

 12 CONNECT TO PIPING PROVIDED BY SITE UTILITY CONTRACTOR. SEE SITE LITHLITY DRAWINGS FOR CONTINUATION
- UTILITY DRAWINGS FOR CONTINUATION

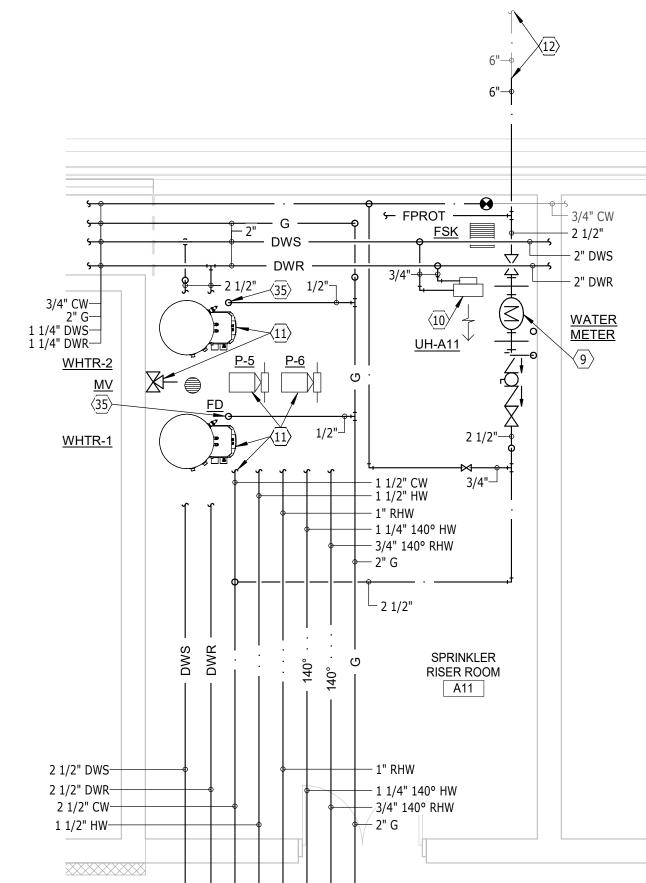
 6" DS UP
- 13 6" DS UP 14 3/4" DWS DN, 3/4" DWR DN
- 15 HYDRONIC WALL MOUNTED INVERTED FLOW CABINET UNIT HEATER. SEE CABINET UNIT HEATER DETAIL
- 16 1" DWS & 1" DRW UP TO CABINET UNIT HEATER
 17 1 1/4" DWS & 1 1/4" DWR UP TO UNIT VENTILATOR
- 18 1" DWS & 1" DWR DN TO CABINET UNIT HEATER
 19 4" W DN W/CO 24" AFF
- 20 3/4" DWS & 3/4" DWR DN TO CABINET UNIT HEATER
- 21 1/2" CW DN, 1 1/2" V/2" W DN, 1/2" HW DN 22 1 1/4" CW DN, 2" V DN
- 23 1/2" HW DN, 1 1/2" V/2" W DN, 1/2" CW DN 24 3/4" DWS DN TO FINTUBE RADIATION
- 25 3/4" DWR DN TO FINTUBE RADIATION
- 26 HYDRONIC WALL MOUNTED FINTUBE RADIATION. SEE FINTUBE RADIATION PIPING DETAIL
 27 2" GUP 3/4" RHW UP 1 1/4" HW UP 2 1/2" CW UP 4" DWR UP 4" DWS UP
- 27 2" G UP, 3/4" RHW UP, 1 1/4" HW UP, 2 1/2" CW UP, 4" DWR UP, 4" DWS UP 28 2" W UP TO SK
- 29 2" W DN W/CO 24" AFF
 30 24" DIA X 6'-0" DEEP ELEVATOR SUMP BASIN & PUMP. EXTEND 4" PVC DRAIN
 MTD FLSUH WITH BOTTOM OF ELEVATOR PIT TO BASIN. EXTEND 2" DISCH
- FROM SUMP PUMP WITH INDIRECT CONNECTION TO HUB DRAIN STUBBED AFF
 31 2" V DN
- 32 1 1/2" V/2" W DN, 1/2" CW DN, 1/2" HW DN
 33 1/2" CW DN OUT THRU WALL WITH ESCUTHEON & SHUTOFF VALVE TO ICE
- MAKER

 34 HYDRONIC CEILING MOUNTED CABINET UNIT HEATER. SEE CABINET UNIT
- HEATER PIPING DETAIL

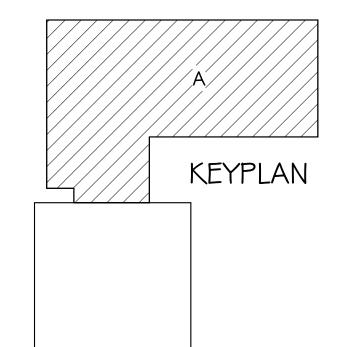
 35 1/2" G DN WITH GAS COCK, PRESSURE REDUCING VALVE & UNION TO WATER
- HEATER

 36 EXISTING GAS METER. GAS PIPING SIZED AT 2 POUND. ADDITION GAS PIPING
- SIZED AT 400' TOTAL LENGTH. 4400 MBH AT 2 PSIG, PRESSURE DROP 1 PSIG.
- (BOILERS & WATER HEATER).

 37 EXISTING GAS SERVING KITCHEN & SCIENCE ROOMS
- 38 TO EXISTING SECOND FLOOR FIXTURES
- 39 1 1/4" DWS & 1 1/4" DWR DN TO UNIT VENTILATOR
- 40 HYDRONIC UNIT VENTILATOR. SEE UNIT VENTILATOR PIPING DETAIL
- 41 TO EXISTING KITCHEN SINKS AND DISHWASHING
- 42 1" DWS & 1" DWR DN TO FCU
 43 EXTEND 1" FCU COND TO FSK
- 3 EXTEND 1" FCU COND TO FSK 4 HYDRONIC FAN COIL UNIT. SEE FAN COII
- 44 HYDRONIC FAN COIL UNIT. SEE FAN COIL UNIT PIPING DETAIL
 45 SEE ENLARGED PLAN ON THIS SHEET FOR CONTINUATION
 46 MIXING VALVE
- 46 MIXING VALVE
 47 INSULATED 1 1/4" TYPE K SOFT COPPER PIPING WITH NO JOINTS BELOVED TO SELECT THE SELECT THE



ENLARGED GROUND FLOOR PLAN AREA A - PLUMBING & HEATING

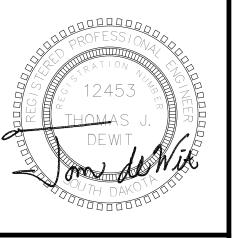


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PLAN - AREA A - PLUMBING &

ST. MARY'S CATHOLIC SCHOOL
SROUND FLOOR PLAN - AREA

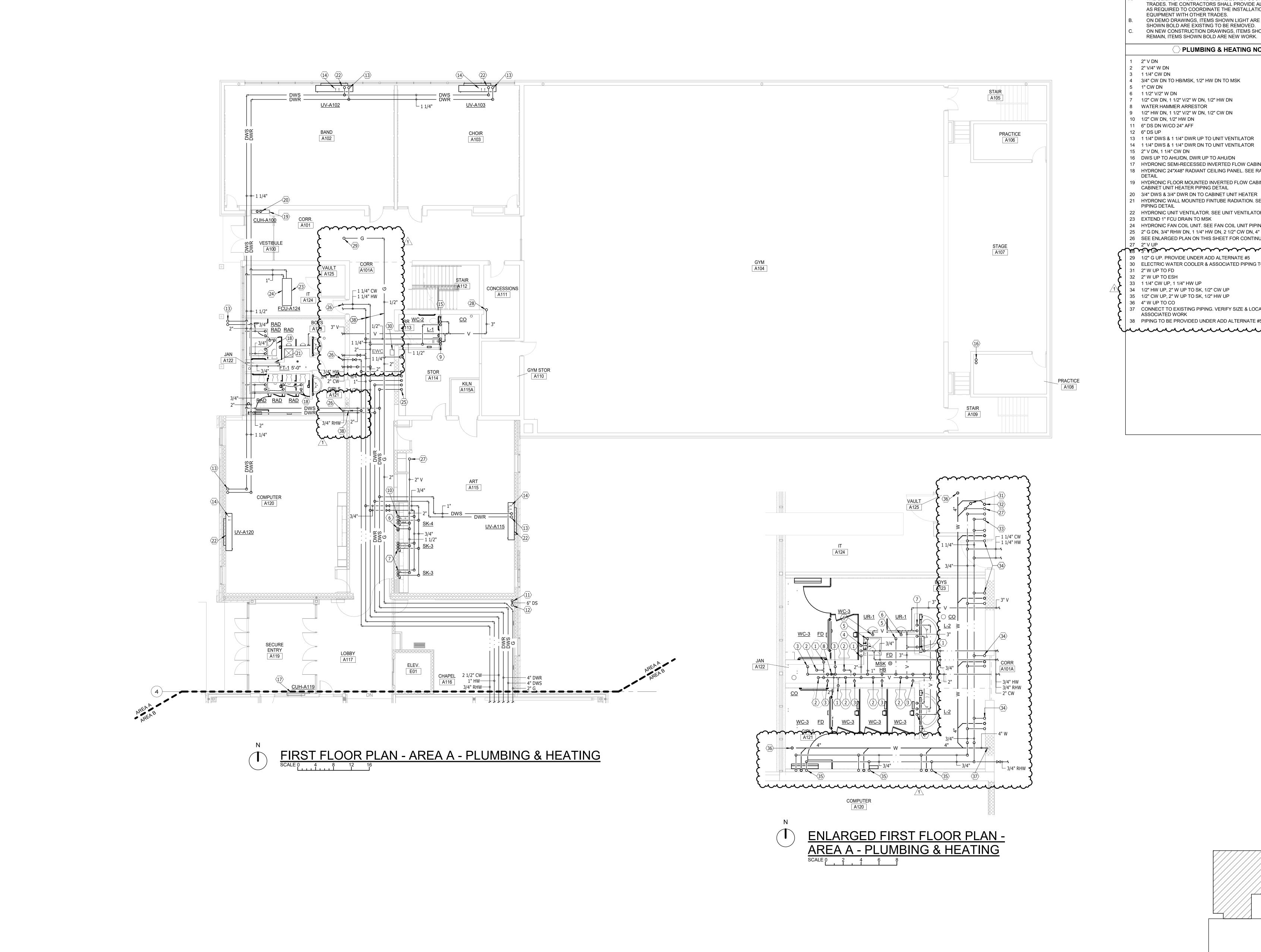
number 0413.2788.18

date 7-31-2022

revision drawn DWM checked Td

D. DATE DESCRIPTION

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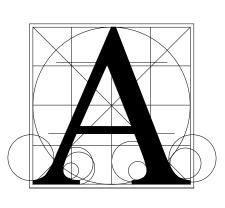
GENERAL SHEET NOTES

- 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, ITEM SHOWN BOLD ARE EXISTING TO BE REMOVED. ON NEW CONSTRUCTION DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING T

PLUMBING & HEATING NOTES

1 2" V DN 2 2" V/4" W DN

- 4 3/4" CW DN TO HB/MSK, 1/2" HW DN TO MSK
- 6 1 1/2" V/2" W DN 7 1/2" CW DN, 1 1/2" V/2" W DN, 1/2" HW DN
- 8 WATER HAMMER ARRESTOR 9 1/2" HW DN, 1 1/2" V/2" W DN, 1/2" CW DN
- 10 1/2" CW DN, 1/2" HW DN 11 6" DS DN W/CO 24" AFF
- 13 1 1/4" DWS & 1 1/4" DWR UP TO UNIT VENTILATOR 14 1 1/4" DWS & 1 1/4" DWR DN TO UNIT VENTILATOR
- 15 2" V DN, 1 1/4" CW DN
- 16 DWS UP TO AHU/DN, DWR UP TO AHU/DN 17 HYDRONIC SEMI-RECESSED INVERTED FLOW CABINET UNIT HEATER 18 HYDRONIC 24"X48" RADIANT CEILING PANEL. SEE RADIANT PANEL PIPING
- 19 HYDRONIC FLOOR MOUNTED INVERTED FLOW CABINET UNIT HEATER. SEE CABINET UNIT HEATER PIPING DETAIL
- 21 HYDRONIC WALL MOUNTED FINTUBE RADIATION. SEE FINTUBE RADIATION PIPING DETAIL 22 HYDRONIC UNIT VENTILATOR. SEE UNIT VENTILATOR PIPING DETAIL
- 23 EXTEND 1" FCU DRAIN TO MSK
- 24 HYDRONIC FAN COIL UNIT. SEE FAN COIL UNIT PIPING DETAIL 25 2" G DN, 3/4" RHW DN, 1 1/4" HW DN, 2 1/2" CW DN, 4" DWR DN, 4" DWS DN 26 SEE ENLARGED PLAN ON THIS SHEET FOR CONTINUATION
- 29 1/2" G UP. PROVIDE UNDER ADD ALTERNATE #5
- 30 ELECTRIC WATER COOLER & ASSOCIATED PIPING TO REMAIN CONNECTED 31 2" W UP TO FD
- 32 2" W UP TO ESH 33 1 1/4" CW UP, 1 1/4" HW UP
- 35 1/2" CW UP, 2" W UP TO SK, 1/2" HW UP
- 36 4" W UP TO CO 37 CONNECT TO EXISTING PIPING. VERIFY SIZE & LOCATION PRIOR TO
- ASSOCIATED WORK 38 PIPING TO BE PROVIDED UNDER ADD ALTERNATE #5

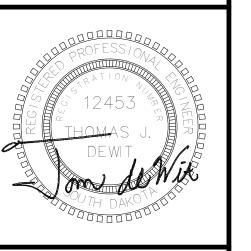


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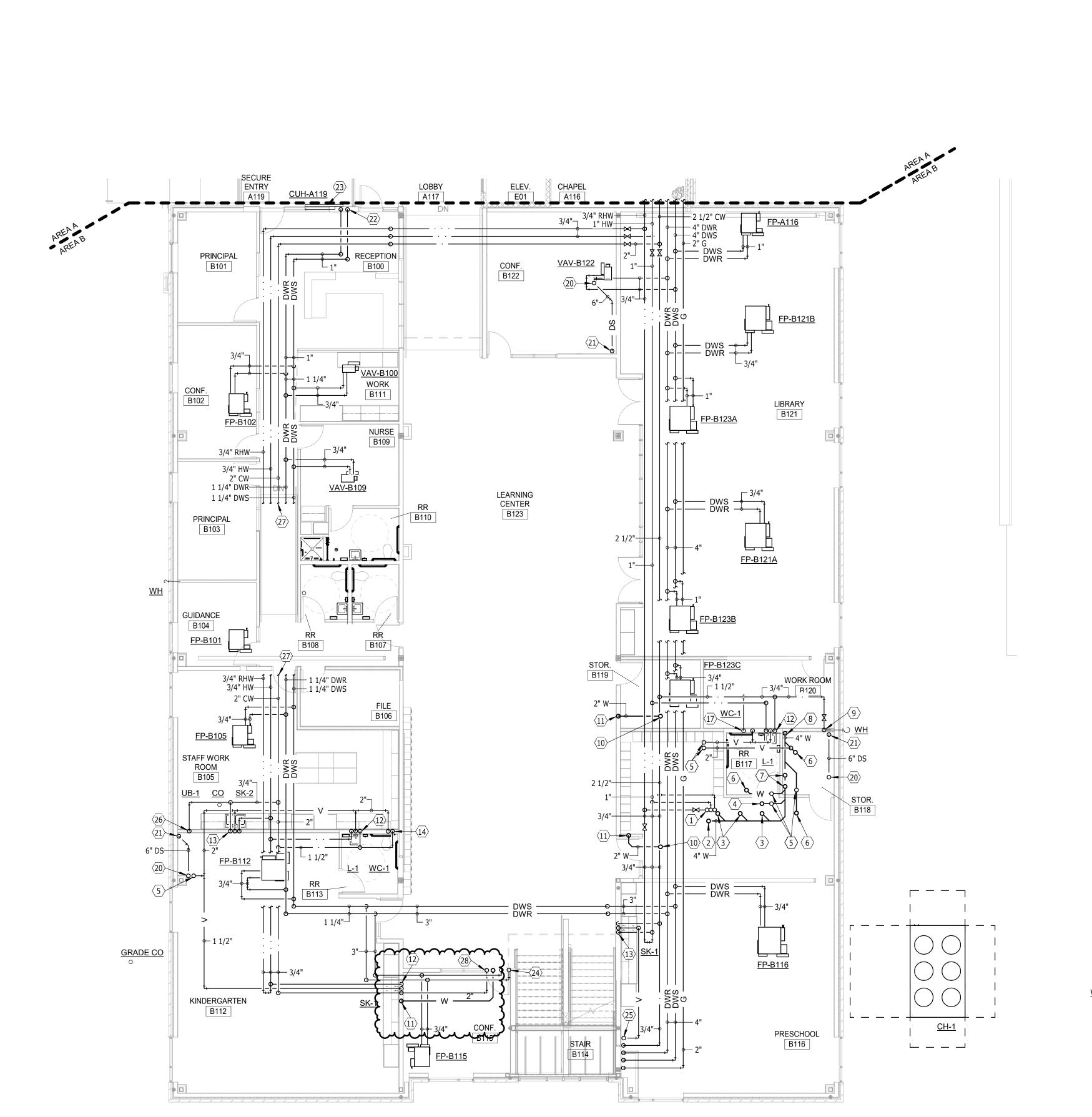
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PLUMBING

KEYPLAN

number <u>0413.2788.18</u> 8/23/22 ADDENDUM I



FIRST FLOOR PLAN - AREA B - PLUMBING & HEATING

GENERAL SHEET NOTES

REMAIN, ITEMS SHOWN BOLD ARE NEW WORK.

- 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, ITE SHOWN BOLD ARE EXISTING TO BE REMOVED. ON NEW CONSTRUCTION DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO

PLUMBING & HEATING NOTES

- 3/4" RHW UP, 3/4" HW UP, 2" CW UP 2 4" W UP TO CO 3 2" W UP TO UR 4 3" W UP TO MSK 5 2" V UP
- 6 2" W UP TO FD 7 4" W UP TO WC 8 4" W DN W/CO 24" AFF

16 2" V DN

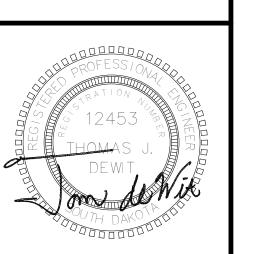
- 9 3/4" CW DN TO WH MTD 24" ABOVE GRADE 10 2" W UP TO LAV
- 11 2" W DN W/CO 24" AFF 12 1/2" HW DN, 1 1/2" V/2" W DN, 1/2" CW DN
- 13 1/2" CW DN, 1 1/2" V/2" W DN, 1/2" HW DN 14 2" V DN, 1 1/4" CW DN 15 1/2" CW DN, 1/2" HW DN
- 17 1 1/4" CW DN, 2" V DN 18 1 1/4" CW DN, 2" V DN, 1 1/4" CW DN 19 3/4" CW DN, 1 1/2" V/2" W DN, 3/4" HW DN
- 20 6" DS UP 21 6" DS DN W/CO 24" AFF
- 22 1" DWS & 1" DRW UP TO CABINET UNIT HEATER 23 HYDRONIC SEMI-RECESSED INVERTED FLOW CABINET UNIT HEATER
- 24 3" DWR UP, 3" DWS UP 25 2" V UP/DN, 3/4" CW DN, 1 1/2" DWR UP/4" DN, 1 1/2" DWS UP/4" DN, 2" G DN
- 26 1/2" CW DN TO ICEMAKER UTILITY BOX
 27 SEE ENLARGED PLAN ON THIS SHOET FOR CONTINUATION 28 1/2" CW UP, 2" W UP TO EWC

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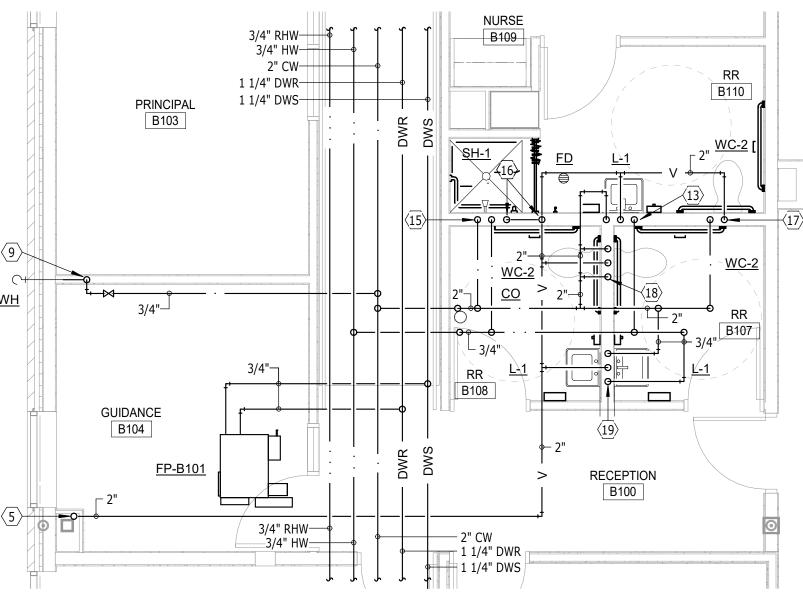




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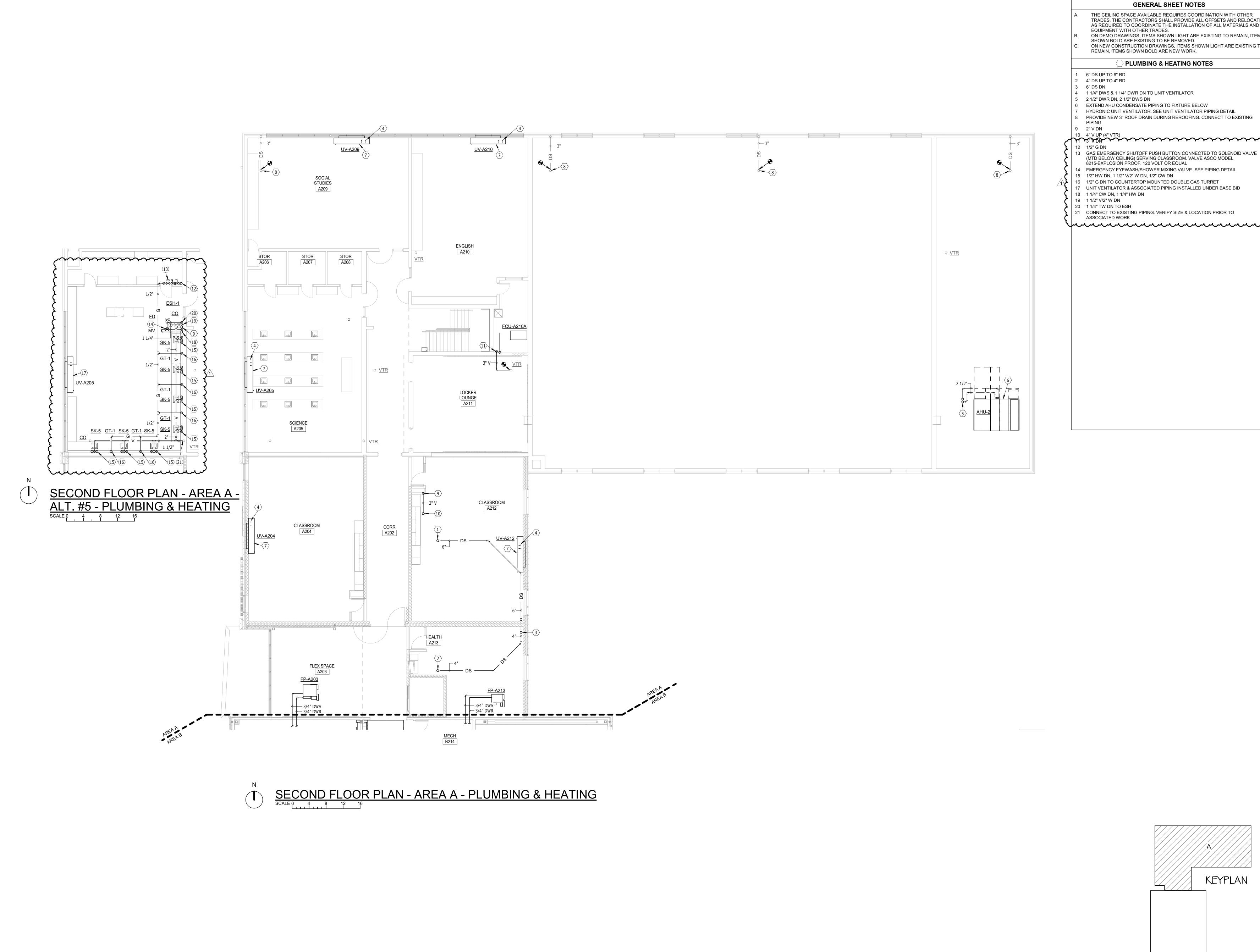
PLUMBING



ENLARGED OFFICE FIRST FLOOR PLAN - AREA B - PLUMBING &
HEATING

number 0413.2788.18

8/23/22 ADDENDUM I



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

ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS

HYDRONIC UNIT VENTILATOR. SEE UNIT VENTILATOR PIPING DETAIL 8 PROVIDE NEW 3" ROOF DRAIN DURING REROOFING. CONNECT TO EXISTING

(MTD BELOW CEILING) SERVING CLASSROOM. VALVE ASCO MODEL

14 EMERGENCY EYEWASH/SHOWER MIXING VALVE. SEE PIPING DETAIL

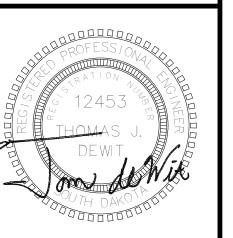
17 UNIT VENTILATOR & ASSOCIATED PIPING INSTALLED UNDER BASE BID

21 CONNECT TO EXISTING PIPING. VERIFY SIZE & LOCATION PRIOR TO

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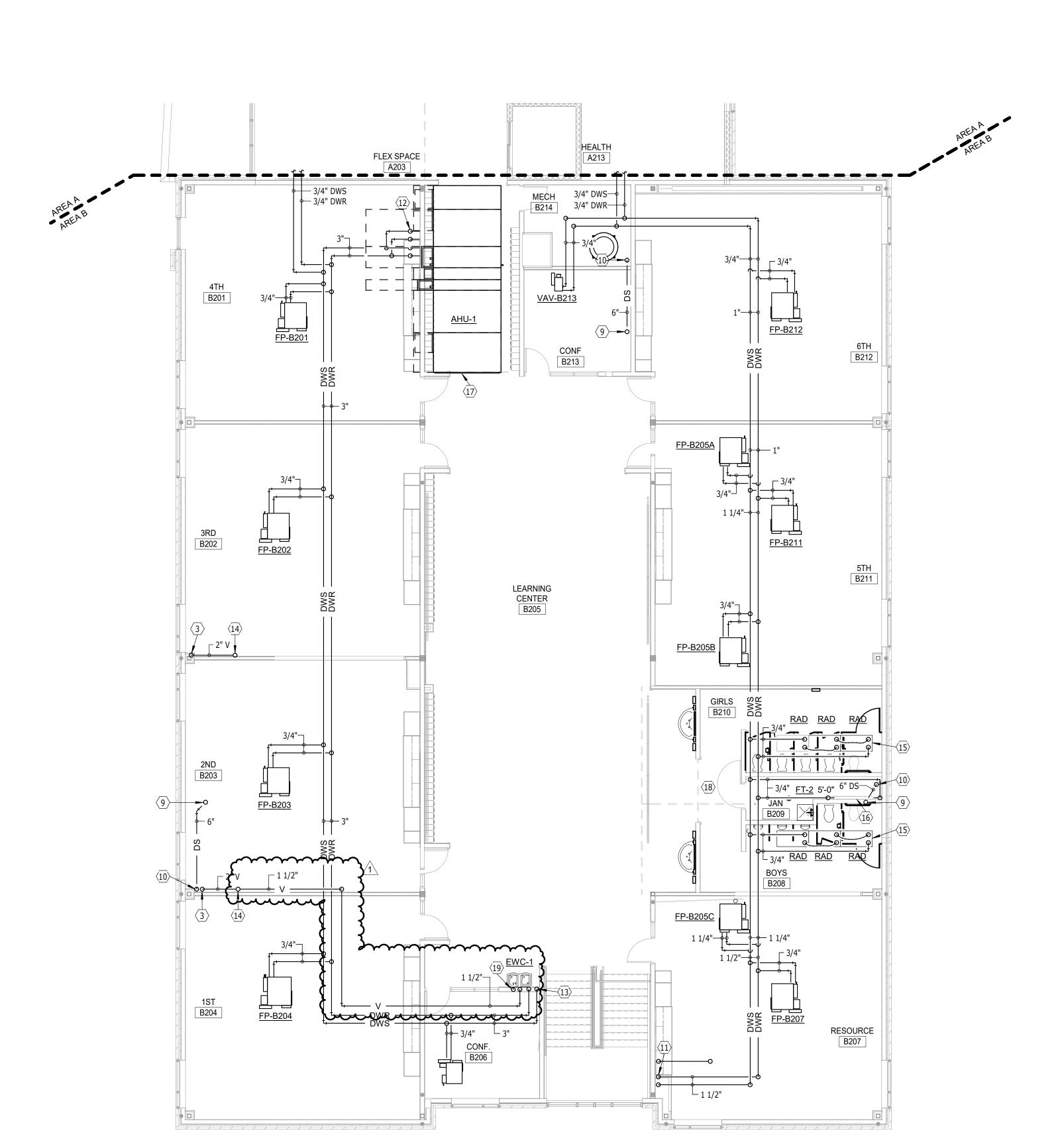
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PUMBING

SCHOOL **AREA**

number <u>0413.2788.18</u>



SECOND FLOOR PLAN - AREA B - PLUMBING & HEATING

SCALE 0 14 16

GENERAL SHEET NOTES

- A. 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.

 B. ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS.
- B. ON DEMO DRAWINGS, ITEMS SHOWN LIGHT ARE EXISTING TO REMAIN, ITEMS SHOWN BOLD ARE EXISTING TO BE REMOVED.

 C. 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 1/2" V/2" W DN, 1/2" CW DN 2 1 1/4" CW DN
- 3 2" V DN 4 2" V/4" W DN
- 4 2" V/4" W DN 5 1 1/2" V/2" W DN
- 6 1" CW DN 7 1/2" HW DN, 2" V DN, 3/4" DN TO HB/MSK
- 8 3/4" RHW DN, 3/4" HW DN, 2" CW DN 9 6" DS UP TO 6" RD
- 9 6" DS UP TO 6" RD 10 6" DS DN

11 1 1/2" DWR DN, 1 1/2" DWS DN

- 12 2" DWS & 2" DWR UP THRU ROOF TO AHU. 3" DWS & 3" DWR UP THRU ROOF TO AHU
- 13 3" DWR DN, 3" DWS DN

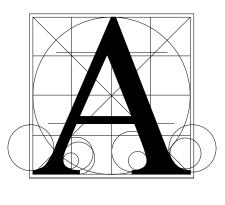
Yuuuuuu

- 14 4" V UP (4" VTR)
 15 HYDRONIC 24"X48" RADIANT CEILING PANEL. SEE RADIANT PANEL PIPING DETAI
 16 HYDRONIC WALL MOUNTED FINTUBE RADIATION. SEE FINTUBE RADIATION
- PIPING DETAIL

 17 HYDRONIC AIR HANDLING UNIT. SEE AIR HANDLING UNIT PIPING DETAIL

 18 SEE ENLARGED PLAN ON THIS SHEET FOR CONTINUATION

 19 1/2" CW DN, 1 1/2" V/2" W DN



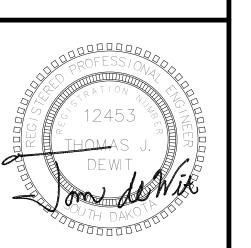
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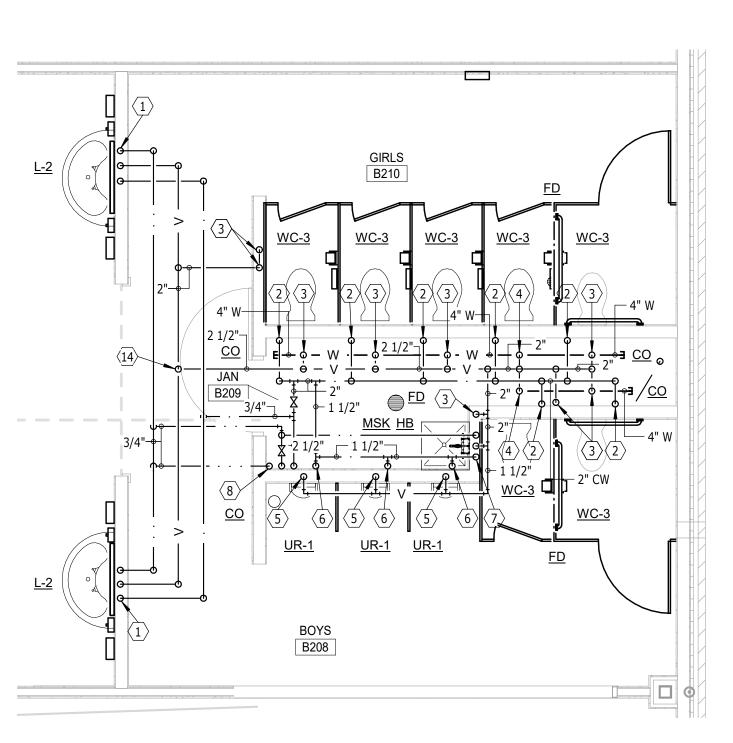
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ENLARGED SECOND FLOOR PLAN -AREA B - PLUMBING & HEATING ST. MARY'S CATHOLIC SCHOOL
SECOND FLOOR PLAN - AREA B - PLUMBING

KEYPLAN

SECOND FLOOR PLAN - AREA B - VENTILATION & A/C

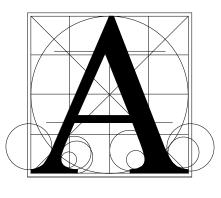
GENERAL SHEET NOTES

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- 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.

VENTILATION NOTES

LOW PROFILE FAN POWERED VAV TERMINAL WITH HOT WATER RE-HEAT COIL INSTALLED ABOVE CEILING. PROVIDE INLET SOUND ATTENUATOR (TYP) SHUT OFF TYPE VAV TERMINAL WITH RE-HEAT COIL INSTALLED ABOVE

- CEILING. (TYP) PRV INSTALLED ON ROOF WITH FULLY INSULATED ROOF CURB. PROVIDE BACKDRAFT DAMPER AND INSULATED DROP. MAINTAIN MINIMUM 10' FROM
 - ROOF EDGE.
- 30/10 S/A DOWN THRU FLOOR. 5 38/12 R/A DOWN THRU FLOOR.
- 6 10"Ø E/A DOWN THRU FLOOR.
- 7 36/16 R/A DOWN THRU FLOOR. 8 42/12 S/A DOWN THRU FLOOR.
- 9 BALANCE DAMPER. (TYPICAL).
- 10 12"Ø BOILER VENT UP/DN IN CHASE.
- 11 6"Ø E/A DOWN THRU FLOOR. 12 ROOFTOP AIR HANDLING UNIT MOUNTED ON 18" INSULATED ROOF CURB. PROVIDE SOUND ISOLATION PER DETAIL. MAINTAIN MINIMUM 10' FROM ROOF
- 13 AIR TRANSFER DUCT WITH OPENINGS ON BOTH SIDES OF WALL. BOTH OPENINGS SHALL BE IN THE TOP OR ON THE SAME SIDED - NO TURN VANES
- -SIZE AS SHOWN OR AT 600 FPM. (TYP)
- 14 12"Ø BOILER VENT UP THRU ROOF WITH ROOF WITH INSULATED ROOF CURB. SEAL PENETRATION WATERTIGHT.



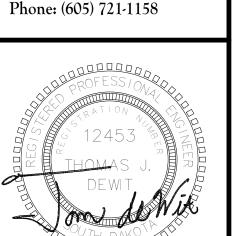
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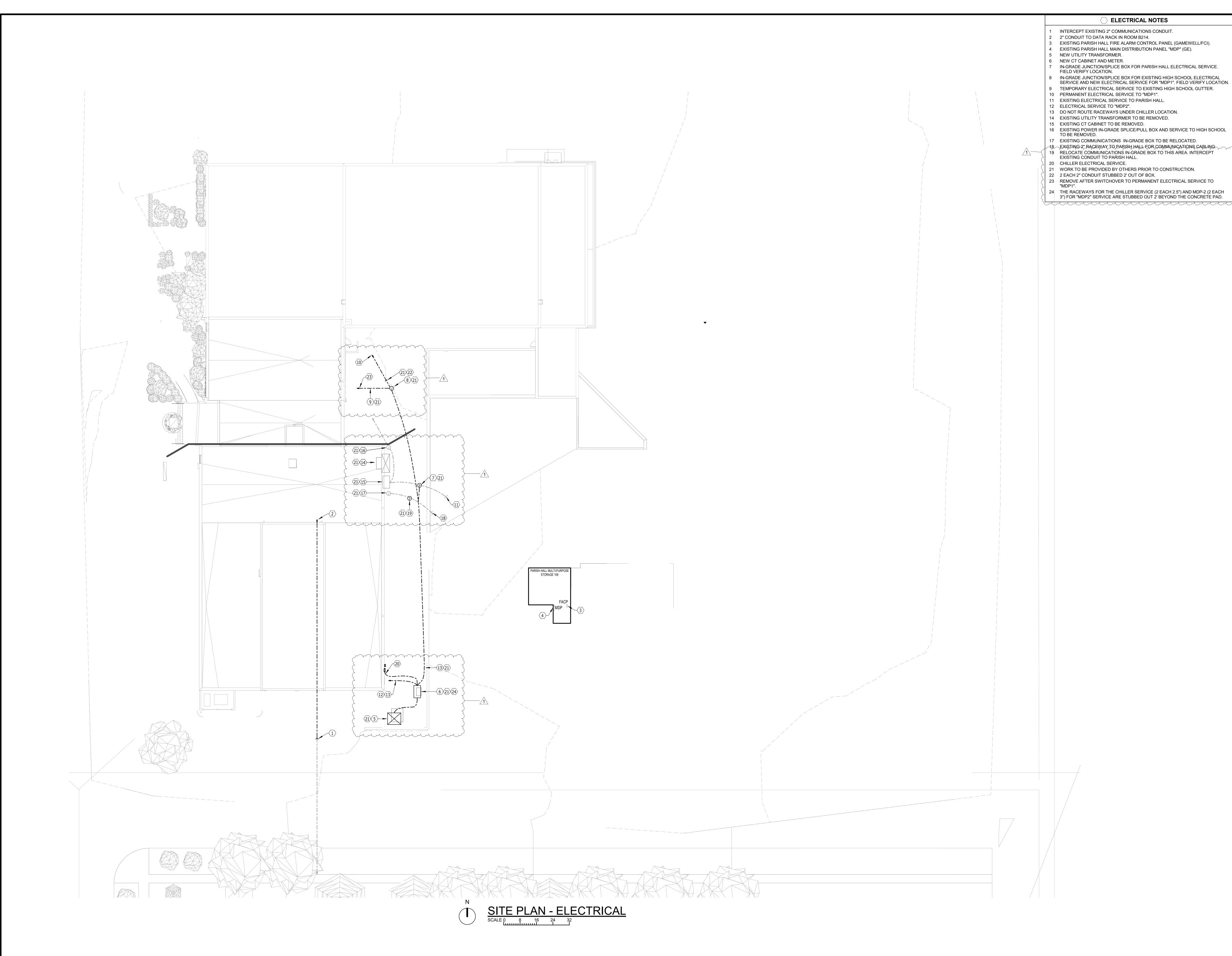
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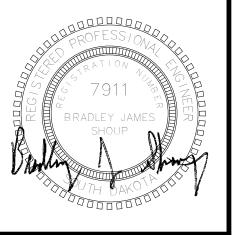
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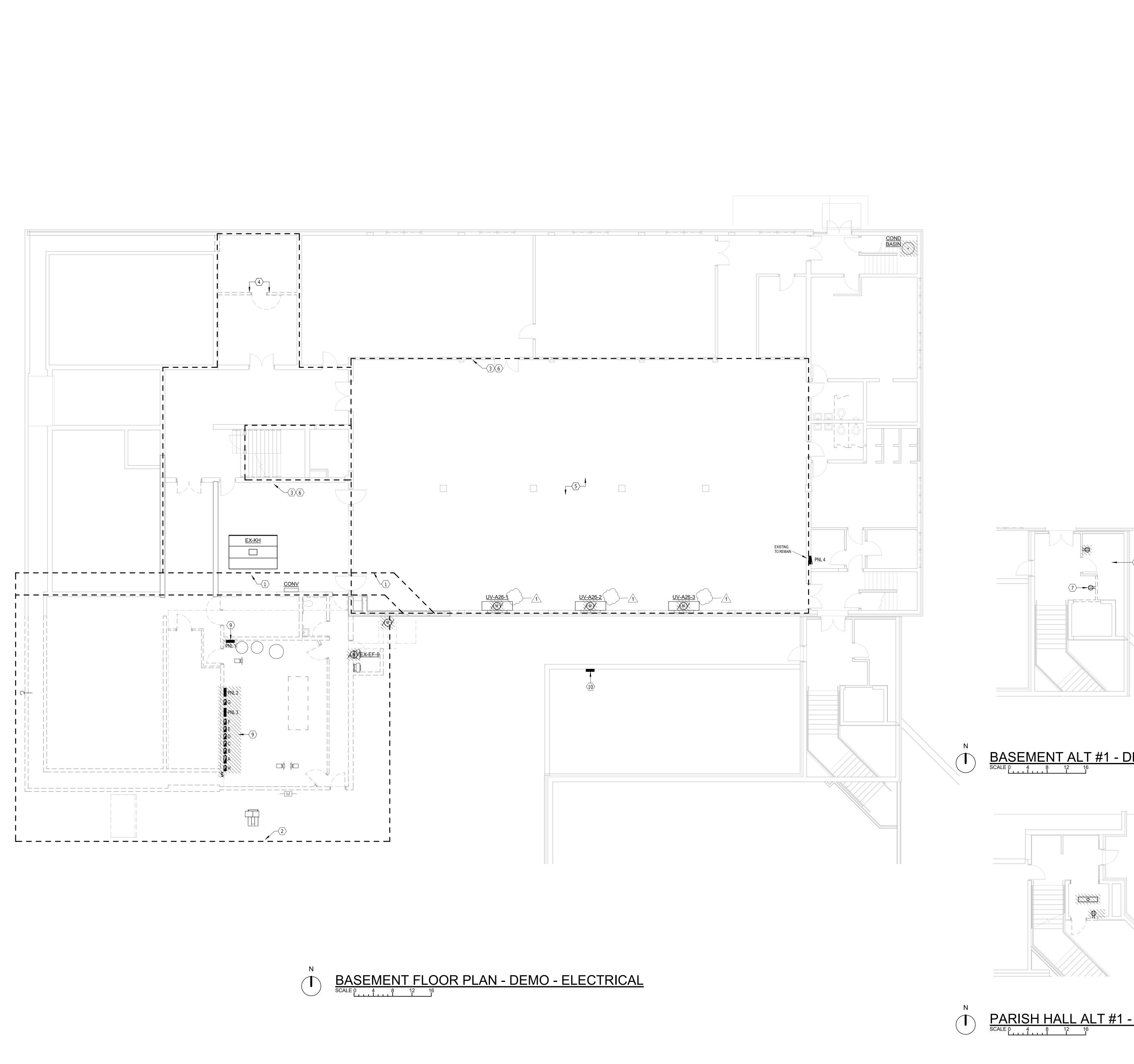
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ELECTRICAL NOTES

INTERCEPT EXISTING FEEDERS AND BRANCH CIRCUITS THAT ARE TO REMAIN IN OPERATION AND RE-FEED FROM NEW "MDP1" AND PANEL "L1". WITHIN THIS DASHED AREA, UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING ELECTRICAL DEVICES, SYSTEMS, BOXES, RACEWAYS, CONDUCTORS/CABLING, AND CONNECTIONS TO MECHANICAL EQUIPMENT THAT IS BEING REMOVED TO THE EXTENT POSSIBLE. WITHIN THIS DASHED AREA, UNLESS NOTED OTHERWISE, REMOVE AND REINSTALL EXISTING CEILING MOUNTED ELECTRICAL DEVICES AND

ASSOCIATED RACEWAYS, BOXES, AND CONDUCTORS, AS REQUIRED FOR CONSTRUCTION. REMOVE EXISTING ELECTRICAL SYSTEMS AS REQUIRED FOR WALL REMOVE EXISTING CEILING FANS AND ASSOCIATED CONTROLS IN THIS ROOM.

WITHIN THIS DASHED AREA, UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING CEILING MOUNTED LUMINAIRES AND ASSOCIATED RACEWAYS, BOXES, AND CONDUCTORS.

RELOCATE EXISTING DEVICE. EXTEND/REROUTE EXISTING RACEWAYS AND CONDUCTORS AS REQUIRED. EXISTING LIGHTING IN THIS ROOM IS CONNECTED TO CIRCUIT FEEDING LIGHTING IN THE ELEVATOR SHAFT. REMOVE CONNECTION AND FEED FROM A

SPARE 20A/1P CIRCUIT BREAKER IN PANEL "L2". EXISTING SWITCHGEAR TO BE REMOVED. SEE NOTE #1 ON THIS SHEET.

10 EXISTING PANEL "L2" AT MAIN LEVEL OF SANCTUARY.

GENERAL SHEET NOTES

WITHIN THE SCHOOL BUILDING, REMOVE ALL EXISTING JOHNSON CONTROLS FCI FIRE ALARM SYSTEM EQUIPMENT, DEVICES AND ASSOCIATED RACEWAY BOXES, AND CABLING TO EXTENT POSSIBLE.

GENERAL DEMOLITION SHEET NOTES

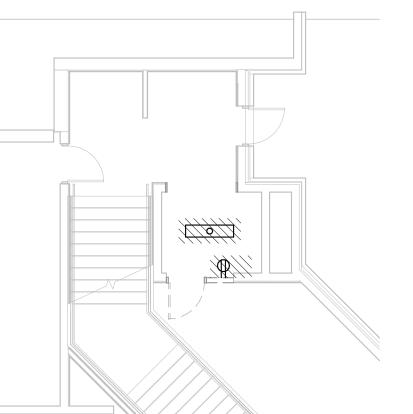
DEMO HATCHED ITEMS.

PERFORM ALL DEMOLITION WORK AS REQUIRED AND REMODELING WORK AS SHOWN ON THE DRAWINGS INCLUDING MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE

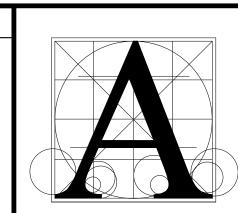
- PRIOR TO SUBMITTING BID, CONTRACTOR SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND SHOULD HAVE HAD VISITED THE CONSTRUCTION SITE. THE CONTRACTOR SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE/SHE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS/HER PART.
- CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. EXISTING CONDUIT RUNS ARE GENERALLY NOT SHOWN, ALTHOUGH A FULL ATTEMPT HAS BEEN MADE TO SHOW SOME EXISTING CONDITIONS, OF WHICH INFORMATION HAS BEEN TAKEN FROM EXISTING RECORD DRAWINGS OF THIS PROJECT. THE DRAWINGS SHOWING LOCATIONS OF EXISTING EQUIPMENT, OUTLETS, FIXTURES, ETC. IN EXISTING AREA ARE APPROXIMATE ONLY (FIELD VERIFY).
- BRANCH CIRCUITS SHALL BE REUSED WHERE PRACTICAL AND SHALL, IN ADDITION, BE REMODELED AS REQUIRED. THE CONTRACTOR SHALL CONCEAL ALL WORK WHERE POSSIBLE. WHERE EXPOSED WORK IS REQUIRED IN FINISHED AREAS, THE CONTRACTOR SHALL USE SURFACE MOUNTED, MULTI-OUTLET RACEWAY, PANDUIT T70 SERIES. EXISTING RUNS SHALL BE VERIFIED.
- EXISTING ELECTRICAL WIRING WHICH WILL NOT BE MADE OBSOLETE AND WHICH WILL BE DISTURBED DUE TO CONSTRUCTION CHANGES REQUIRED BY THIS CONTRACT SHALL BE RESTORED TO OPERATING CONDITION, AS REQUIRED AND/OR DIRECTED. WHERE REQUIRED, SHOWN AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES, IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW WIRING OR INSTALL JUNCTION BOXES AND SPLICE IN NEW WIRING OR REPLACE OLD WIRING WITH NEW.
- OUTLETS FROM WHICH FIXTURES, SWITCHES, RECEPTACLES, AND/OR OTHER ELECTRICAL DEVICES ARE MOVED AND WHICH ARE NOT REPLACED OR REUSED SHALL BE REMOVED OR, IF NOT POSSIBLE, PROVIDED WITH A BLANK PLATE ON THE OUTLET BOX. WHERE OUTLETS, BOXES, ETC. ARE COMPLETELY REMOVED, THE CONTRACTOR SHALL CUT OFF CONDUITS AND
- WHERE EXISTING LIGHT FIXTURES ARE TO BE RE-USED, THE CONTRACTOR SHALL CLEAN THE FIXTURES AND REPLACE LAMPS. THE CONTRACTOR SHALL ALSO REPAIR OR REPLACE DEFECTIVE PARTS, INCLUDING LENSES, BALLASTS, ETC. AS REQUIRED SO THAT THE FIXTURES ARE FUNCTIONING
- WHERE CONDUITS EXTENDING THROUGH FLOORS ARE TO BE ABANDONED, THE CONTRACTOR SHALL CUT AND CAP OR PLUG CONDUIT, SO THAT IT WILL NOT PROTRUDE ABOVE THE FLOOR.
- WHERE EXISTING CONDUIT IS TO BE ABANDONED, THE CONDUIT SHALL BE REMOVED IF IT IS EXPOSED, INTO A CRAWL SPACE OR ACCESSIBLE CEILING. WHERE IT IS IMPOSSIBLE TO REMOVE THE CONDUIT, IT SHALL BE CUT OFF AND CAPPED OR PLUGGED.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING. PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC. AS REQUIRED.
- THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR THE OWNER.
- ALL TEMPORARY AND REMODELING WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
- EXAMINE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE SEQUENCE OF CONSTRUCTION THROUGHOUT THE PROJECT, INCLUDING EXISTING, TEMPORARY, REMODELED AND NEW AREAS.
- THE OWNER RESERVES THE RIGHT TO RETAIN ANY SELECTED SALVAGE ITEMS, ALL OTHER ITEMS SHALL BE THE CONTRACTORS RESPONSIBILITY FOR LEGAL DISPOSAL.

BASEMENT ALT #1 - DEMO - ELECTRICAL

SCALE 0 1 4 1 6



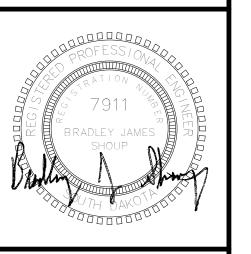
PARISH HALL ALT #1 - DEMO - ELECTRICAL



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340 S. Phillips Ave.

RC

number <u>0413.2788.18</u>

ELECTRICAL NOTES

EXISTING PANEL TO BE REMOVED. RE-FEED EXISTING CIRCUITS THAT ARE TO REMAIN OPERATIONAL FROM NEW PANEL "L5". WITHIN THIS DASHED AREA, UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING ELECTRICAL DEVICES, SYSTEMS, BOXES, RACEWAYS, CONDUCTORS/CABLING, AND CONNECTIONS TO MECHANICAL EQUIPMENT THAT IS BEING REMOVED TO THE EXTENT POSSIBLE. WITHIN THIS DASHED AREA, UNLESS NOTED OTHERWISE, REMOVE AND REINSTALL EXISTING CEILING MOUNTED ELECTRICAL DEVICES AND CONSTRUCTION.

ASSOCIATED RACEWAYS, BOXES, AND CONDUCTORS, AS REQUIRED FOR WITHIN THIS DASHED AREA, UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING CEILING MOUNTED LUMINAIRES AND ASSOCIATED RACEWAYS, BOXES, AND CONDUCTORS.

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GENERAL SHEET NOTES

WITHIN THE SCHOOL BUILDING, REMOVE ALL EXISTING JOHNSON CONTROLS FCI FIRE ALARM SYSTEM EQUIPMENT, DEVICES AND ASSOCIATED RACEWAYS

DEMO HATCHED ITEMS.

NOT USED.

PERFORM ALL DEMOLITION WORK AS REQUIRED AND REMODELING WORK AS SHOWN ON THE DRAWINGS INCLUDING MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE

GENERAL DEMOLITION SHEET NOTES

- PRIOR TO SUBMITTING BID, CONTRACTOR SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND SHOULD HAVE HAD VISITED THE CONSTRUCTION SITE. THE CONTRACTOR SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS UNDER WHICH HE/SHE WILL HAVE TO OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THIS CONTRACT IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS/HER PART.
- CERTAIN REMODELING OF ELECTRICAL FACILITIES WILL BE REQUIRED IN THE EXISTING BUILDING. EXISTING CONDUIT RUNS ARE GENERALLY NOT SHOWN, ALTHOUGH A FULL ATTEMPT HAS BEEN MADE TO SHOW SOME EXISTING CONDITIONS, OF WHICH INFORMATION HAS BEEN TAKEN FROM EXISTING RECORD DRAWINGS OF THIS PROJECT. THE DRAWINGS SHOWING LOCATIONS OF EXISTING EQUIPMENT, OUTLETS, FIXTURES, ETC. IN EXISTING AREA ARE APPROXIMATE ONLY (FIELD VERIFY).
- BRANCH CIRCUITS SHALL BE REUSED WHERE PRACTICAL AND SHALL, IN ADDITION, BE REMODELED AS REQUIRED. THE CONTRACTOR SHALL CONCEAL ALL WORK WHERE POSSIBLE. WHERE EXPOSED WORK IS REQUIRED IN FINISHED AREAS, THE CONTRACTOR SHALL USE SURFACE MOUNTED, MULTI-OUTLET RACEWAY, PANDUIT T70 SERIES. EXISTING RUNS SHALL BE VERIFIED.
- EXISTING ELECTRICAL WIRING WHICH WILL NOT BE MADE OBSOLETE AND WHICH WILL BE DISTURBED DUE TO CONSTRUCTION CHANGES REQUIRED BY THIS CONTRACT SHALL BE RESTORED TO OPERATING CONDITION, AS REQUIRED AND/OR DIRECTED. WHERE REQUIRED. SHOWN AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES, IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW WIRING OR INSTALL JUNCTION BOXES AND SPLICE IN NEW WIRING OR REPLACE OLD WIRING WITH NEW.
- OUTLETS FROM WHICH FIXTURES, SWITCHES, RECEPTACLES, AND/OR OTHER ELECTRICAL DEVICES ARE MOVED AND WHICH ARE NOT REPLACED OR REUSED SHALL BE REMOVED OR, IF NOT POSSIBLE, PROVIDED WITH A BLANK PLATE ON THE OUTLET BOX. WHERE OUTLETS, BOXES, ETC. ARE COMPLETELY REMOVED, THE CONTRACTOR SHALL CUT OFF CONDUITS AND
- WHERE EXISTING LIGHT FIXTURES ARE TO BE RE-USED, THE CONTRACTOR SHALL CLEAN THE FIXTURES AND REPLACE LAMPS. THE CONTRACTOR SHALL ALSO REPAIR OR REPLACE DEFECTIVE PARTS, INCLUDING LENSES, BALLASTS, ETC. AS REQUIRED SO THAT THE FIXTURES ARE FUNCTIONING CORRECTLY.
- WHERE CONDUITS EXTENDING THROUGH FLOORS ARE TO BE ABANDONED, THE CONTRACTOR SHALL CUT AND CAP OR PLUG CONDUIT, SO THAT IT WILL NOT PROTRUDE ABOVE THE FLOOR. WHERE EXISTING CONDUIT IS TO BE ABANDONED, THE CONDUIT SHALL BE
- REMOVED IF IT IS EXPOSED, INTO A CRAWL SPACE OR ACCESSIBLE CEILING. WHERE IT IS IMPOSSIBLE TO REMOVE THE CONDUIT, IT SHALL BE CUT OFF AND CAPPED OR PLUGGED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING,
- OF ELECTRICAL WORK UNDER THE TERMS OF THIS CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC. AS REQUIRED. THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND/OR THE OWNER.

PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION

- ALL TEMPORARY AND REMODELING WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
- EXAMINE ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE SEQUENCE OF CONSTRUCTION THROUGHOUT THE PROJECT, INCLUDING EXISTING, TEMPORARY, REMODELED AND NEW AREAS.
- THE OWNER RESERVES THE RIGHT TO RETAIN ANY SELECTED SALVAGE ITEMS, ALL OTHER ITEMS SHALL BE THE CONTRACTORS RESPONSIBILITY FOR LEGAL DISPOSAL.

BOXES, AND CABLING TO EXTENT POSSIBLE.





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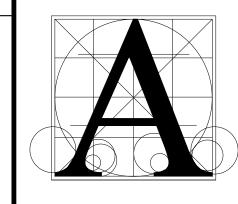
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FIRST FLOOR PLAN - DEMO - ELECTRICAL

WITHIN THIS DASHED AREA, UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING ELECTRICAL DEVICES, SYSTEMS, BOXES, RACEWAYS, CONDUCTORS/CABLING, AND CONNECTIONS TO MECHANICAL EQUIPMENT THAT IS BEING REMOVED TO THE EXTENT POSSIBLE. WITHIN THIS DASHED AREA, UNLESS NOTED OTHERWISE, REMOVE AND REINSTALL EXISTING CEILING MOUNTED ELECTRICAL DEVICES AND ASSOCIATED RACEWAYS, BOXES, AND CONDUCTORS, AS REQUIRED FOR

CONSTRUCTION. WITHIN THIS DASHED AREA, UNLESS NOTED OTHERWISE, REMOVE ALL EXISTING CEILING MOUNTED LUMINAIRES AND ASSOCIATED RACEWAYS, BOXES, AND CONDUCTORS.

NOT USED. WORK TO BE PROVIDED UNDER THE BASE BID. WORK WITHIN THIS DASHED AREA SHALL BE PROVIDED UNDER ALTERNATE #5.



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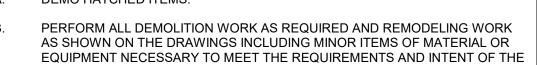
GENERAL SHEET NOTES

WITHIN THE SCHOOL BUILDING, REMOVE ALL EXISTING JOHNSON CONTROLS FCI FIRE ALARM SYSTEM EQUIPMENT, DEVICES AND ASSOCIATED RACEWAYS BOXES, AND CABLING TO EXTENT POSSIBLE.

DEMO HATCHED ITEMS.

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- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC. AS REQUIRED.
- ALL TEMPORARY AND REMODELING WORK SHALL BE CONSIDERED A PART OF THIS CONTRACT AND NO EXTRA CHARGES WILL BE ALLOWED. THIS SHALL INCLUDE MINOR ITEMS OF MATERIAL OR EQUIPMENT NECESSARY TO MEET THE REQUIREMENTS AND INTENT OF THE PROJECT.
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GENERAL DEMOLITION SHEET NOTES



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- DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES, IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW OUTLETS FROM WHICH FIXTURES, SWITCHES, RECEPTACLES, AND/OR
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- FOR LEGAL DISPOSAL.

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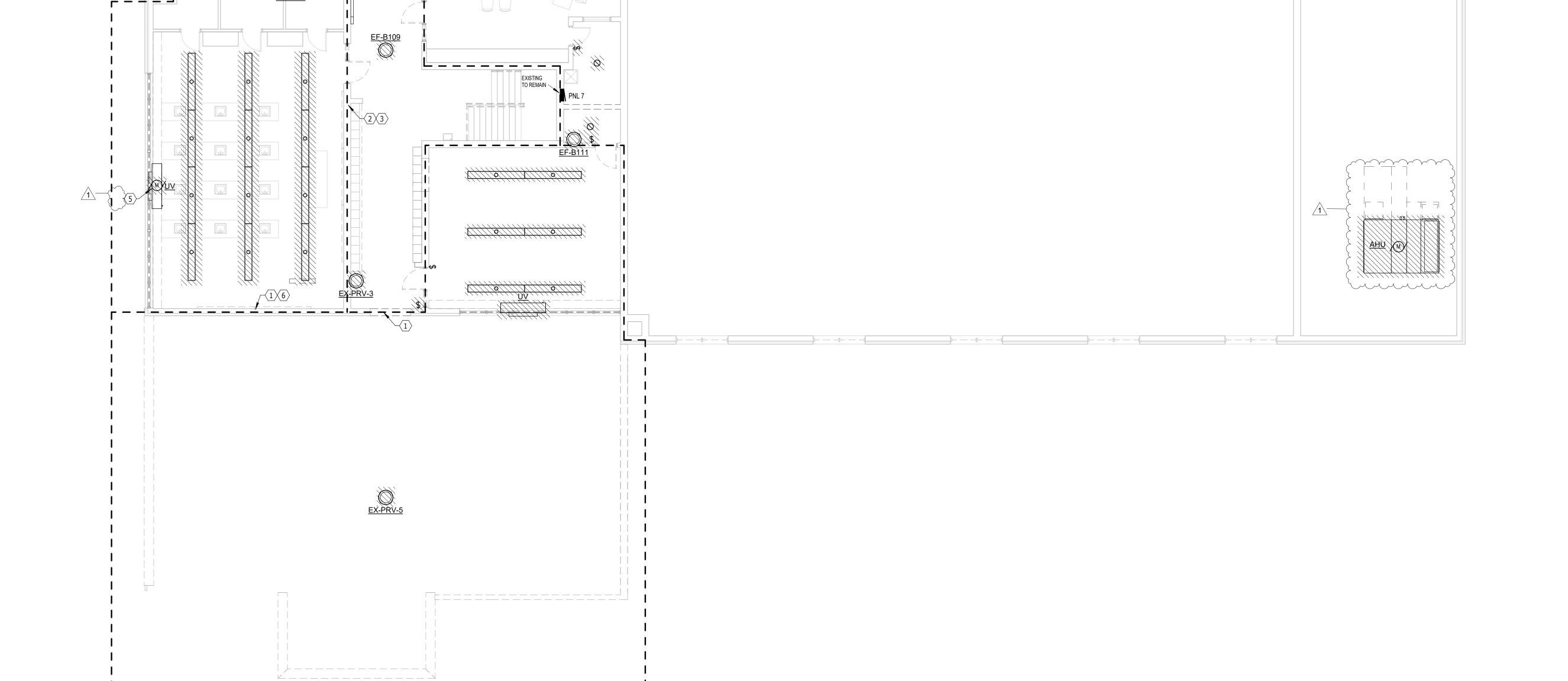
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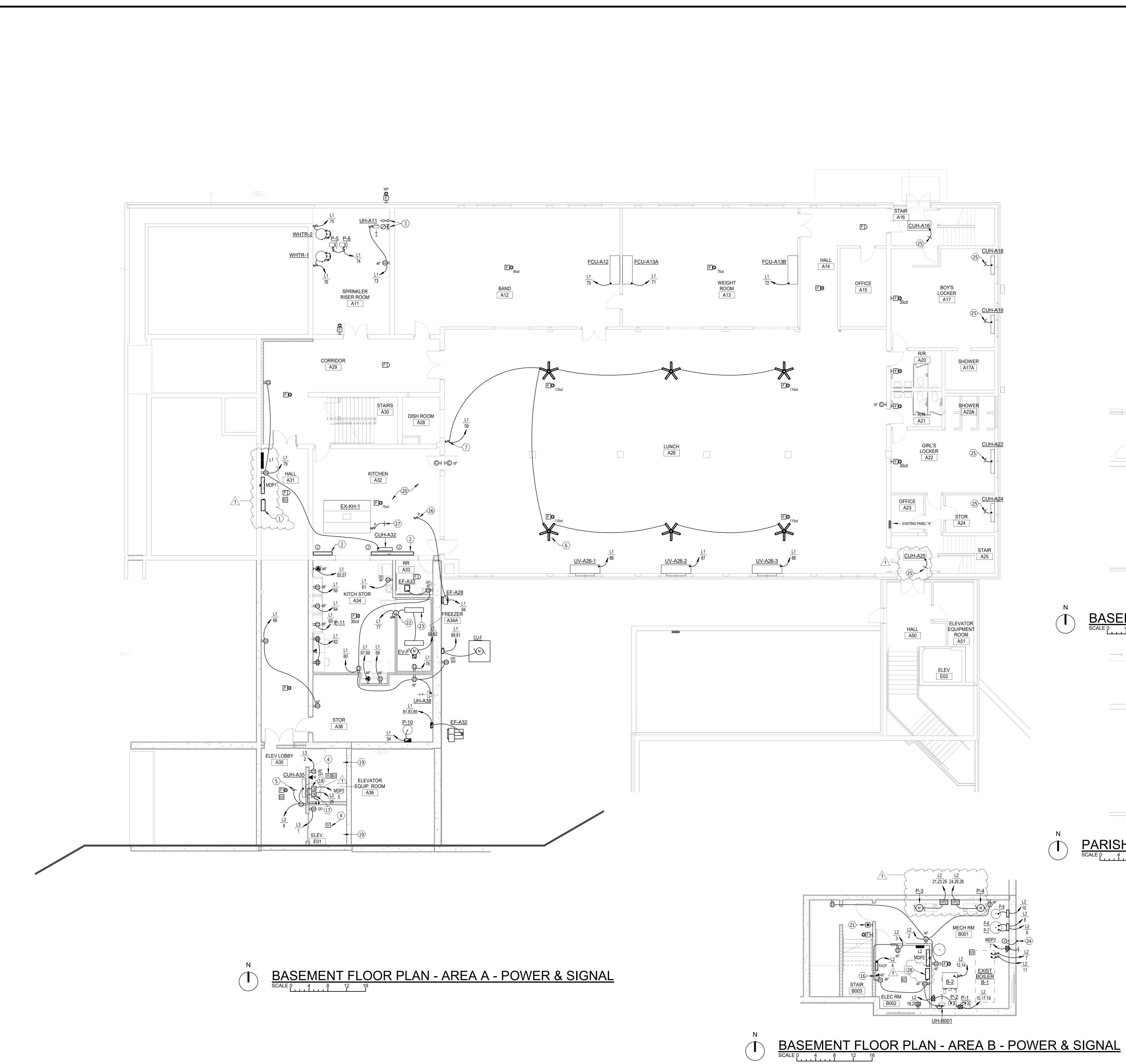
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number <u>0413.2788.18</u>

9.22





ELECTRICAL NOTES MAIN DISCONNECT, "MDS-MDP1". WIRING GUTTER NEAR FLOOR AS REQUIRED FOR RE-FEEDING EXISTING UNDERGROUND FEEDERS AND BRANCH CIRCUITS. COORDINATE QUANTITY OF FLOW AND TAMPER SWITCHES WITH FIRE PROTECTION CONTRACTOR. 135 DEGREE HEAT DETECTOR (LOCATE WITHIN 24" OF EACH SPRINKLER

HEAD), INTERLOCK WITH ELEVATOR EQUIPMENT SHUNT-TRIP CIRCUIT

CONNECT TO LUMINAIRE IN THIS ROOM.

CEILING FAN (HUNTER PRESTO-52), TYPICAL OF 6 EACH. HUNTER #22394 MULTIPLE FAN SPEED CONTROLLER, VERIFY LOCATION WITH THE OWNER.

EXISTING RELOCATED DEVICE. EXISTING LIGHTING IN THIS ROOM IS CONNECTED TO CIRCUIT FEEDING LIGHTING IN THE ELEVATOR SHAFT. REMOVE CONNECTION AND FEED FROM A SPARE 20A/1P CIRCUIT BREAKER IN PANEL "L2".

10 TO A SPARE 20A/1P CIRCUIT BREAKER IN PANEL "L2".

11 CONNECT TO EXISTING 20A CIRCUIT FROM PANEL "L2". 12 INTERLOCK ELEVATOR WITH EXISTING FIRE ALARM SYSTEM FOR RECALL

13 ELEVATOR CAB POWER 20A/1P LOCKABLE ENCLOSED CIRCUIT BREAKER. CONNECT TO A SPARE 20A/1P CIRCUIT BREAKER IN PANEL "L2" (UTILIZE EXISTING RACEWAY FOR INSTALLATION OF CONDUCTORS). 14 ELEVATOR EQUIPMENT POWER 150A/3P LOCKABLE ENCLOSED CIRCUIT BREAKER WITH AUX. CONTACT (INTERLOCK WITH ELEVATOR LOWERING SYSTEM). CONNECT TO A SPARÈ 200A/3P CIRCUIT BREAKER IN PARISH HALL

MDP (UTILIZE EXISTING 2" CONDUIT FOR INSTALLATION OF CONDUCTORS). 15 COORDINATE ALL CONNECTION REQUIREMENTS WITH ELEVATOR SUPPLIER. 16 STUB CONDUIT TO CEILING SPACE IN ROOM B116. 17 ELEVATOR CAB POWER 120A/1P LOCKABLE ENCLOSED CIRCUIT BREAKER. 18 ELEVATOR EQUIPMENT POWER 200A/3P LOCKABLE ENCLOSED SHUNT TRIP CIRCUIT BREAKER WITH AUXILIARY CONTACT (INTERLOCK WITH ELEVATOR LOWERING SYSTEM).

19 COORDINATE ALL CONNECTION REQUIREMENTS WITH ELEVATOR SUPPLIER. 20 RECEPTACLES IN THIS ROOM SHALL BE GFI PROTECTED IN ACCORDANCE WITH NEC AND LOCAL CODE REQUIREMENTS. PROVIDE GFI RECEPTACLE OR GFI CIRCUIT BREAKERS FOR RECEPTACLES THAT ARE NOT READILY ACCESSIBLE OR AVAILABLE WITH GFI PROTECTION.

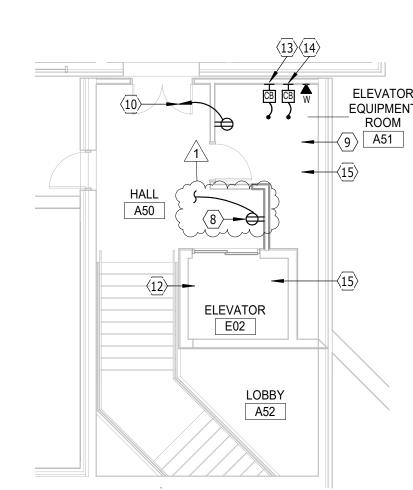
21 'BOILER EMERGENCY OFF' MUSHROOM HEAD PUSHBUTTON SWITCH, PROVIDE INDOOR PROTECTIVE COVER SIMILAR TO STI 13020CR. INTERLOCK WITH SHUNT TRIP CIRCUIT BREAKER IN PANEL "L2".

22 CONNECT DOOR HEAT TAPE, PRESSURE RELIEF PORT, AND FREEZER ALARM 23 FREEZER LIGHTS BY FREEZER SUPPLIER, WIRED AND CONNECT BY EC. ROUTE CONDUIT ABOVE FREEZER AND SEAL ALL PENETRATIONS THROUGH

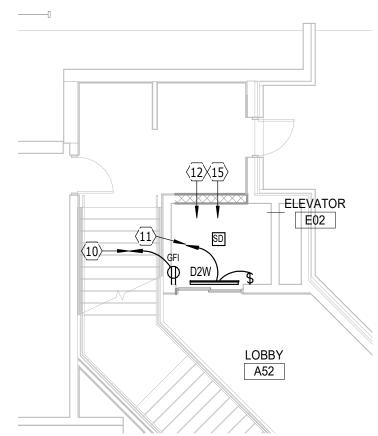
PRE-FABRICATED PANELS. 24 PROVIDE HEAT TRACE FOR APPROXIMATELY 60' OF CHILLED WATER PIPING. 25 CONNECT TO EXISTING UNSWITCHED LIGHTING BRANCH CIRCUIT WITH SPARE

26 LOCATE AT DISHWASHER AREA.

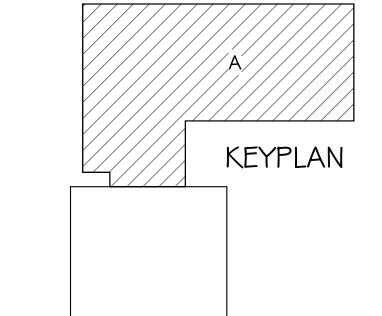
28 MAIN DISCONNECT "MDS-MDP2".



BASEMENT ALT #1 - POWER & SIGNAL SCALE 0 4 8 12 16



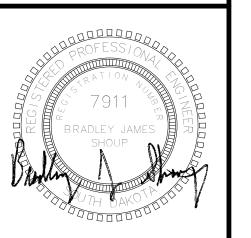
PARISH HALL ALT #1 - POWER & SIGNAL



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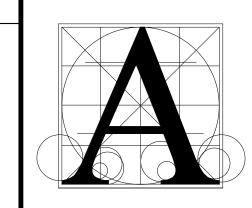
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POWER

number 0413.2788.18

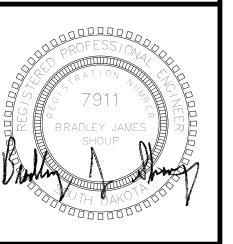


ELECTRICAL NOTES

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Project C

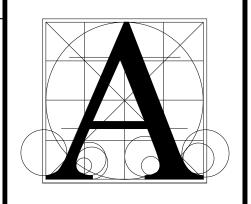
KEYPLAN

number 0413.2788.18 8/23/22 ADDENDUM I



ELECTRICAL NOTES

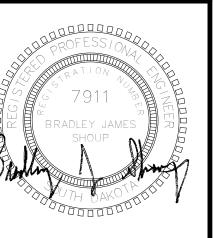
- OWNER PROVIDED COMMUNICATIONS AND DATA-PROCESSING EQUIPMENT LOCATION.
 PROVIDE ROUGH-INS ONLY FOR ACCESS CONTROL SYSTEM DEVICES.
- PROVIDE ROUGH-INS ONLY FOR ACCESS CONTROL SYSTEM DEVICES.
 COORDINATE REQUIREMENTS WITH SECURITY AND DOOR HARDWARE SUPPLIERS.
- 3 FIRE ALARM REMOTE ANNUNCIATOR.



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A - POWER & SIGNAL

MARY'S CATHOLIC SCHOOL

KEYPLAN

9 TO STARTER IN ROOM B001.

A/V OUTLET SHALL CONSIST OF A/V WALL BOX SIMILAR TO HUBBELL HBL985 WITH 2" CONDUIT TO ACCESSIBLE CEILING SPACE IN THIS ROOM, PROVIDE INSULATED BUSHINGS, TYPICAL.

2" CONDUIT TO IN-GRADE COMMUNICATIONS SPLICE/PULL BOX.

UP TO ROOM CEILING SPACE IN ROOM B122.

PROVIDE ROUGH-INS ONLY FOR ACCESS CONTROL SYSTEM DEVICES.

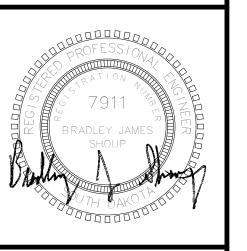
PROVIDE ROUGH-INS ONLY FOR ACCESS CONTROL SYSTEM DEVICES.
COORDINATE REQUIREMENTS WITH SECURITY AND DOOR HARDWARE SUPPLIERS.

TO CT CABINET.
 AV FLOOR BOX. TYPICAL IN CONFERENCE ROOMS.
 PUSHBUTTON SWITCH FOR RELEASE OF DOOR B100-1.
 RECEPTACLES IN THIS ROOM SHALL BE GFI PROTECTED IN ACCORDANCE WITH NEC AND LOCAL CODE REQUIREMENTS. PROVIDE GFI RECEPTACLE OR GFI CIRCUIT BREAKERS FOR RECEPTACLES THAT ARE NOT READILY ACCESSIBLE OR AVAILABLE WITH GFI PROTECTION.

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- AREA B - ELECTRIC/

MARY'S CATHOLIC SCHOOL

number 0413.2788.18

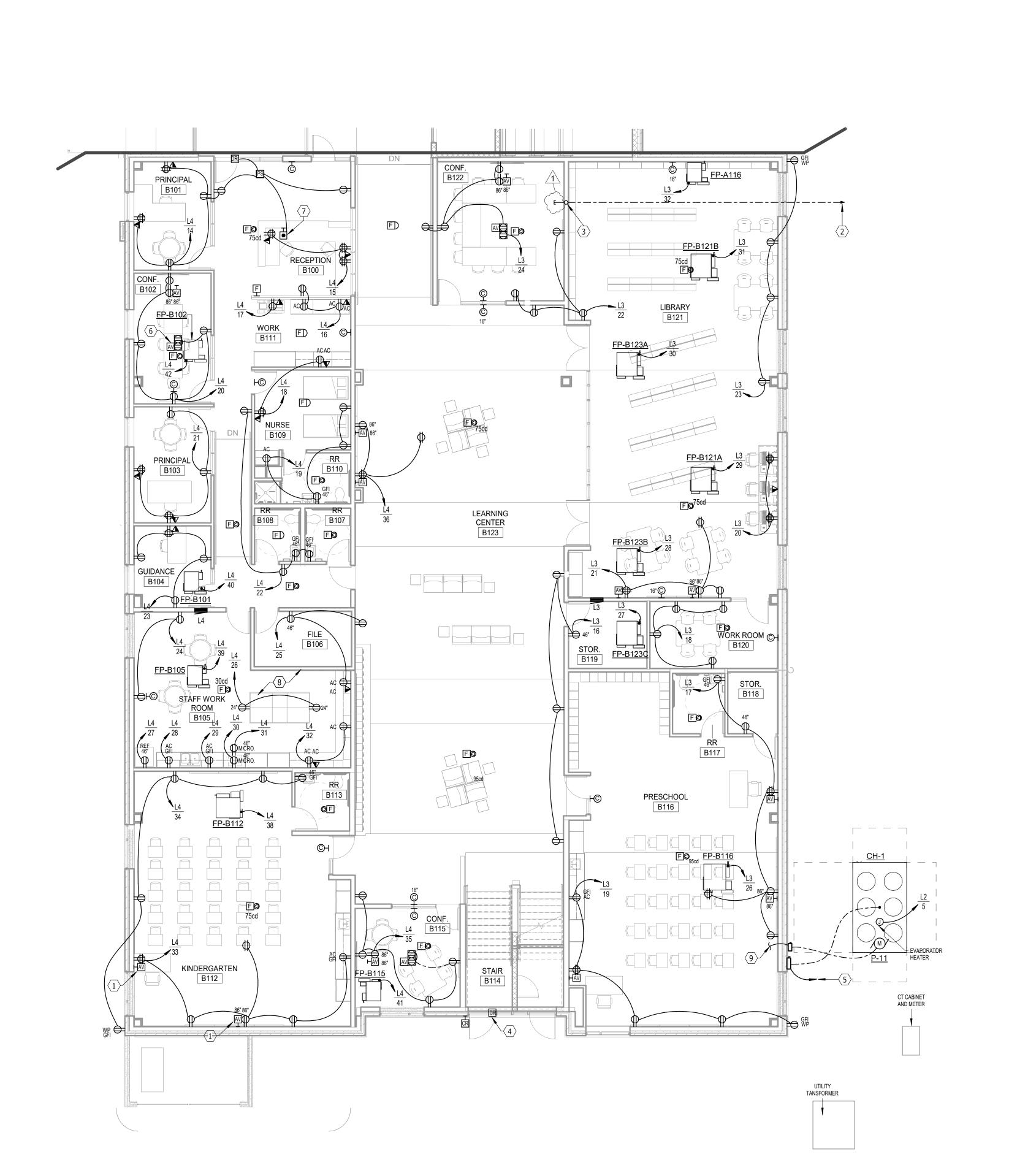
date 7-31-2022

revision

drawn ADP checked BJS

KEYPLAN

9.34

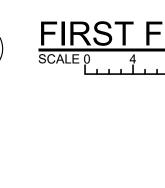


FIRST FLOOR PLAN - AREA B - LIGHTING

STAFF WORK ROOM B105

FIRST FLOOR PLAN - AREA B - POWER & SIGNAL

SCALE D. . . . 4 . . . 8 12 16

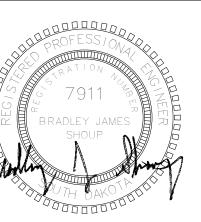




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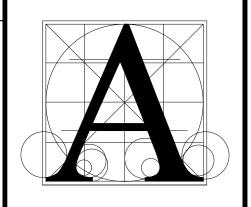
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8/23/22 ADDENDUM I

- 3 EACH 3" CONDUIT SLEEVES TO ACCESSIBLE CEILING BELOW FOR COMMUNICATIONS CABLING.
- OWNER PROVIDED COMMUNICATIONS AND DATA-PROCESSING EQUIPMENT LOCATION.

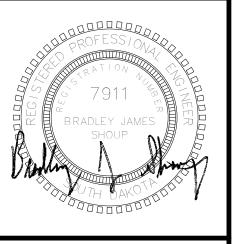
 LOCATE SYNCHRONIZED CLOCK SYSTEM TRANSMITTER AT THIS LOCATION.
- 4 PENDANT MOUNT LUMINAIRE. NIGHTLIGHT THIS 4' SECTION OF LUMINAIRE.
- 6 TO LIGHTING CONTACTOR "ELC".
 7 EXTERIOR LIGHTING CONTACTOR "ELC" (3 POLES), PROVIDE HOA. 8 VIA CONTACTOR "ELC".



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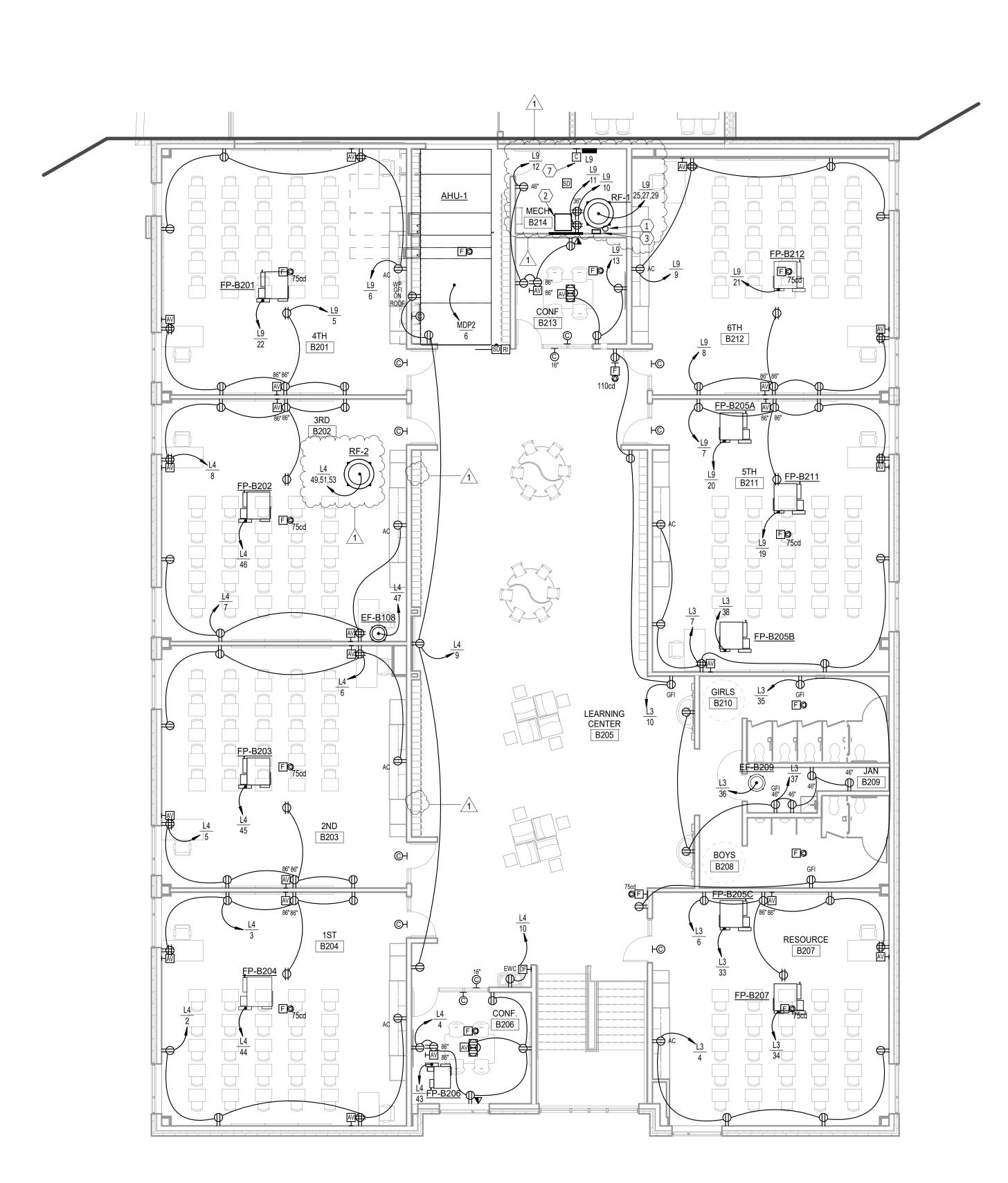


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SECOND FLOOR PLAN - AREA B - LIGHTING

SECOND FLOOR PLAN - AREA B - POWER & SIGNAL

KEYPLAN

MARK								EDULE						
		4-WIRE	FEEDER			3-WIRE	FEEDER			"K" RAT	ED 4-WIRE	FEEDER		MARK
(AMPS)	SETS	PH	GND	С	SETS	PH	GND	С	SETS	PH	N	GND	С	(AMPS
15	1	14	14	0.75	1	14	14	0.75	1	14	12	14	0.75	15
20	1	12	12	0.75	1	12	12	0.75	1	12	10	12	0.75	20
25	1	10	10	0.75	1	10	10	0.75	1	10	8	10	0.75	25
30	1	10	10	0.75	1	10	10	0.75	1	10	8	10	0.75	30
35	1	8	10	0.75	1	8	10	0.75	1	8	6	10	0.75	35
40	1	8	10	0.75	1	8	10	0.75	1	8	4	10	1.00	40
45	1	6	10	1.00	1	6	10	0.75	1	6	4	10	1.00	45
50	1	6	10	1.00	1	6	10	0.75	1	6	3	10	1.00	50
60	1	6	10	1.00	1	6	10	0.75	1	6	3	10	1.00	60
70	1	4	8	1.25	1	4	8	1.00	1	4	1/0	8	1.25	70 80
90	1	3	8	1.25 1.25	1	3	8	1.00	1	3	1/0 2/0	8	1.25 1.25	90
100	1	3	8	1.25	1	3	8	1.25	1	3	2/0	8	1.25	100
110	1	2	6	1.25	1	2	6	1.25	1	2	3/0	6	1.50	110
125	1	1	6	1.50	1	1	6	1.25	1	1	4/0	6	2.00	125
150	1	1/0	6	2.00	1	1/0	6	1.50	1	1/0	300	6	2.00	150
175	1	2/0	6	2.00	1	2/0	6	2.00	1	2/0	350	6	2.00	175
200	1	3/0	6	2.00	1	3/0	6	2.00	1	3/0	500	6	2.50	200
225	1	4/0	4	2.50	1	4/0	4	2.00	1	4/0	2-3/0	4	2.50	22
250	1	250	4	2.50	1	250	4	2.50	1	250	2-4/0	4	2.50	250
300	1	350	4	3.00	1	350	4	2.50	1	350	2-300	4	3.00	30
350	1	500	3	3.00	1	500	3	3.00	1	500	2-400	3	3.50	35
400	2	3/0	3	2.00	2	3/0	3	2.00	2	3/0	500	3	2.50	40
450	2	4/0	2	2.50	2	4/0	2	2.00	2	4/0	2-3/0	2	2.50	45
500	2	250	2	2.50	2	250	2	2.50	2	250	2-4/0	2	2.50	50
600	2	350	1	3.00	2	350	1	2.50	2	350	2-350	1	3.00	60
700	2	500	1/0	3.00	2	500	1/0	3.00	2	500	2-400	1/0	3.50	70
800	3	300	1/0	2.50	3	300	1/0	2.50	3	300	2-4/0	1/0	3.00	80
900	3	350	2/0	3.00	3	350	2/0	2.50	3	350	2-300	2/0	3.00	90
1000	3	400	2/0	3.00	3	400	2/0	2.50	3	400	2-350	2/0	3.00	100
1200	4	350	3/0	3.00	4	350	3/0	2.50	4	350	2-300	3/0	3.00	120
1600	5	400	4/0	3.00	5	400	4/0	2.50	5	400	2-350	4/0	3.00	160
2000	6	400	250	3.00	6	400	250	3.00	6	400	2-350	250	3.50	200
2500	7	500	350	3.50	7	500	350	3.00	7	500	2-400	350	3.50	250
3000	8	500	400	3.50	8	500	400	3.00	8	500	2-400	400	4.00	300
4000	11	500	500	3.50	11	500	500	3.00	11	500	2-400	500	4.00	300
5000	14	500	700	3.50	14	500	700 EEDER	3.00 SCHEDUL	14 F (100 Am	700	2-400	700	4.00	300
				IVIOT				OONEDOL		·	•			
MARK		MOTOR L	· · · ·				FEEDER				WIRE FEED	ER		MAF
(AMPS)	_	80V		8V	PH		ND	С	PH		GND		С	(AMF
20		LESS		ESS	12		2	0.75	12		12		0.75	20
25		0		-	10		0	0.75	10		10		0.75	25
30		5		-	10		0	0.75	10		10		0.75	30
35		-		5	8		0	0.75	8		10	_	0.75	35
40		5	-	-	8		0	0.75	8		10		0.75	40
45 50		-		<u>-</u> .5	6		0	1.00	6		10 10		0.75	45
60		20		.5	6		0	1.00	6		10	_	0.75	60
70		25 25		-	4		8	1.00	4		8	_	1.00	70
80		30 30	-	_	4		8	1.25	4	- 	8		1.00	80
90		l0		5	3		8	1.25	3		8		1.25	90
100		50		20	3		8	1.25	3		8		1.25	100
				-				•	<u> </u>					

2. SERVICE ENTRANCE CONDUCTORS SHALL NOT BE PROVIDED WITH 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. SEE SPECIFICATIONS

4. NEUTRAL SHALL BE SAME SIZE AS PHASE CONDUCTOR, UNLESS OTHERWISE NOTED.

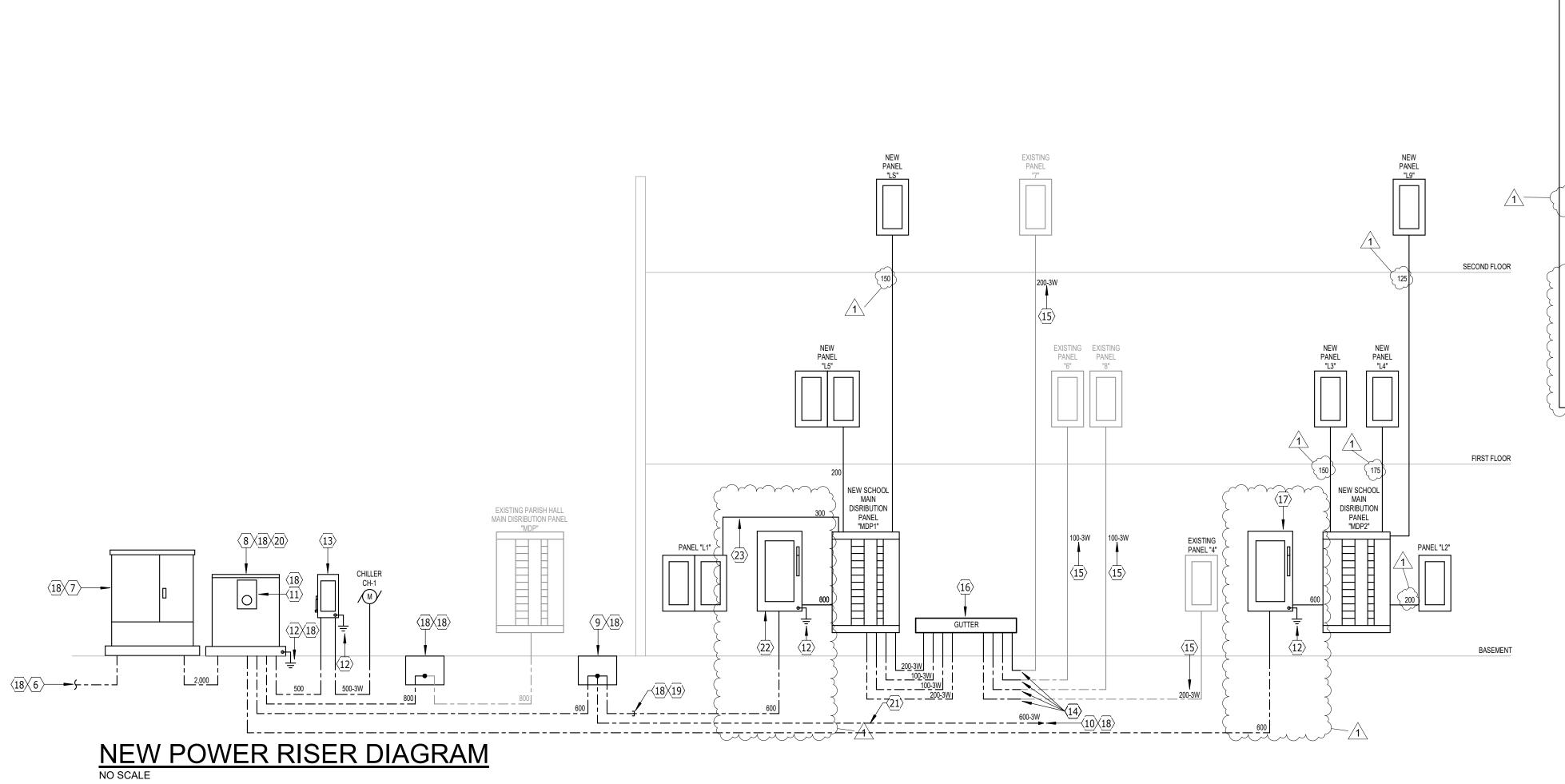
SIZES AS REQUIRED FOR TERMINATIONS TO EQUIPMENT NOT LISTED FOR 75°C.

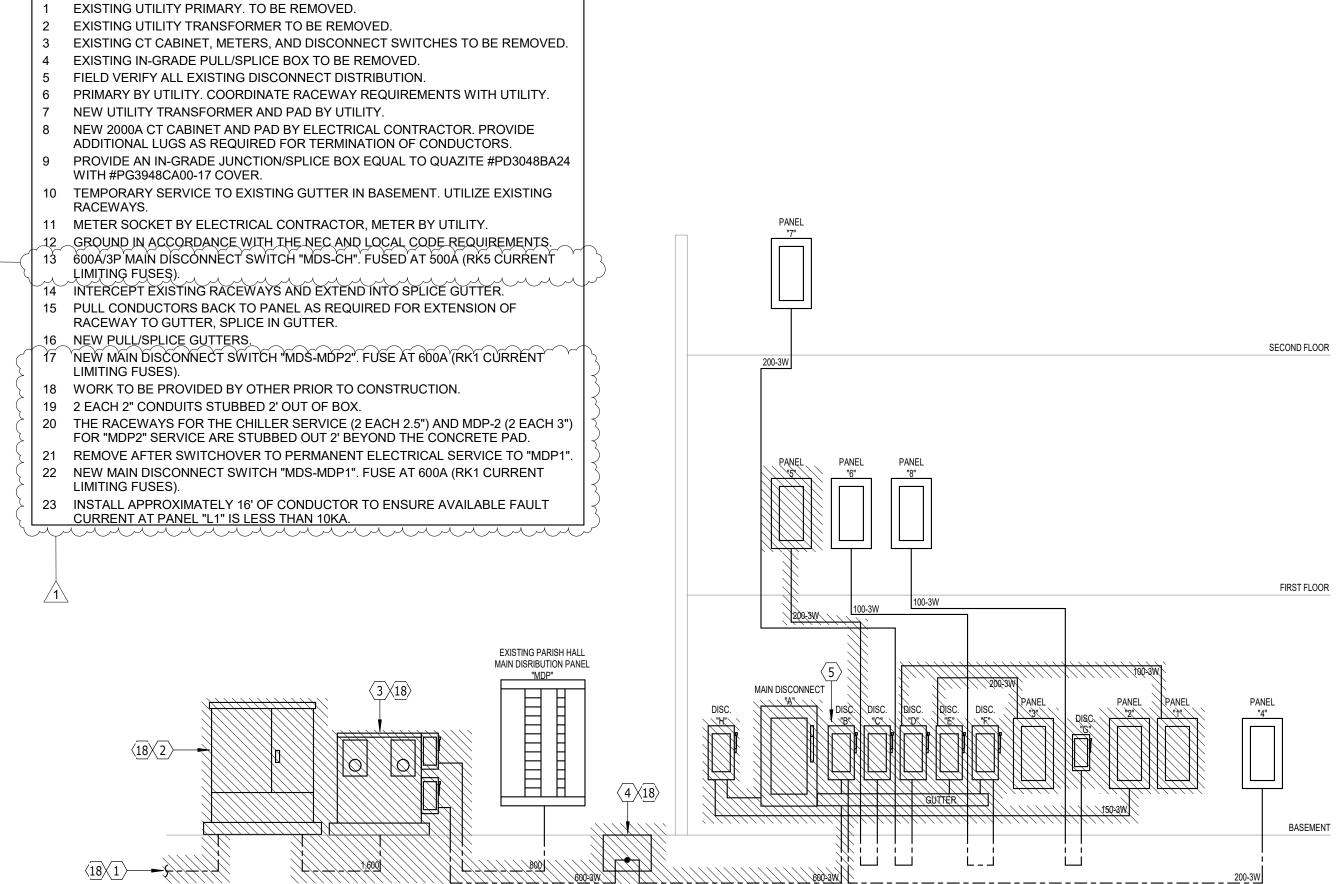
FOR ALLOWABLE CONDUCTOR MATERIAL, INSULATION, AND RACEWAY TYPES. 7. NOT ALL FEEDER SIZES SHOWN IN THIS SCHEDULE ARE USED IN THIS PROJECT.

3. ALL FEEDERS SHALL HAVE EQUIPMENT GROUND CONDUCTOR.

			ELECTRIC	AL	ABBREVIA [®]	TION	IS LIST		
1P	1 POLE (2P, 3P, 4P, ETC.)	DC DCP	DROP CORD DOMESTIC WATER		HAND DRYER HORSEPOWER	N.C. NEC	NORMALLY CLOSED NATIONAL ELECTRICAL CODE	SURF SW	SURFACE MOUNTED SWITCH
A	AMPERE	DCP	CIRCULATING PUMP		HIGH POWER FACTOR	NEC NEMA	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL	SWBD	SWITCH
AC	ABOVE COUNTER -	DEPT	DEPARTMENT	HT	HEIGHT	INCIVIA	MANUFACTURER'S	SYM	SYMMETRICAL
ΛΟ	(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	111 50	DISCONNECT SWITCH	TEL/DATA	
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	TL	TWIST LOCK
AFF	ABOVE FINISHED FLOOR	DPR	DAMPER	HWP	HYDRONIC WATER PUMP	N.O.	NORMALLY OPEN	TR	TAMPER RESISTANT
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 TERMINAL
	INTERRUPTER	DWG	DRAWING	IG	ISOLATED GROUND				CABINET
AHU	AIR HANDLING UNIT	EC	ELECTRICAL CONTRACTOR	IMC	INTERMEDIATE METAL CONDUIT	OH	OVERHEAD	TV	TELEVISION
AL	ALUMINUM	ELEC	ELECTRIC, ELECTRICAL		INCANDESCENT	OL	OVERLOADS	TVTC	TELEVISION TERMINAL
ALT	ALTERNATE	ELEV	ELEVATOR	IR	INFRARED	DΛ	DUDUIC ADDDESS	TVD	CABINET
AMP AMPL	AMPERE AMPLIFIER	EM EMS	EMERGENCY ENERGY MANAGEMENT SYSTEM	I/W	INTERLOCK WITH	PA PB	PUBLIC ADDRESS PULL BOX OR PUSHBUTTON	TYP	TYPICAL
=	ANNUNCIATOR	EMT	ELECTRICAL METALLIC TUBING	J-BOX	JUNCTION BOX	PE	PNEUMATIC ELECTRIC	UC	UNDER COUNTER
	APPROXIMATELY	EP	ELECTRIC PNEUMATIC	J-DOV	JONG HON BOX	PED	PEDESTAL	UE	UNDERGROUND ELECTRICAL
AQ-STAT		EQUIP	EQUIPMENT	KV	KILOVOLT	PF	POWER FACTOR	UG	UNDERGROUND
ARCH	ARCHITECT. ARCHITECTURAL	EWC	ELECTRIC WATER COOLER	KVA	KILOVOLT-AMPERE	PH	PHASE	UH	UNIT HEATER
AS	AMP SWITCH	2.110	COORDINATE RCPT LOCATION WITH	KVAR	KILOVOLT-AMPERE REACTIVE	PIV	POST INDICATING VALVE	UT	UNDERGROUND TELEPHONE
AT	AMP TRIP		MECHANICAL CONTRACTOR	KW	KILOWATT	PNL	PANEL	UTIL	UTILITY
ATS	AUTOMATIC TRANSFER SWITCH	EXIST	EXISTING	KWH	KILOWATT HOUR	PP	POWER POLE	UV	UNIT VENTILATOR OR
AUTO	AUTOMATIC	EXH	EXHAUST			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
DATT	DATTED\/	FABP	FIRE ALARM BOOSTER POWER	LTNG	LIGHTNING	PT	POTENTIAL TRANSFORMER	VDT	VIDEO DISPLAY TERMINAL
BATT BD	BATTERY BOARD	EACD	SUPPLY PANEL FIRE ALARM CONTROL PANEL	LV	LOW VOLTAGE	PVC	POLYVINYL CHLORIDE	VERT VFD	VERTICAL
BLDG	BUILDING	FACP FCU	FAN COIL UNIT	MAX	MAXIMUM	PWR	(CONDUIT) POWER	VPD VOL	VARIABLE FREQUENCY DRIVE VOLUME
BMS	BUILDING MANAGEMENT	FIXT	FIXTURE	MAG.S	MAGNETIC STARTER	LWIX	FOWLK	VOL	VOLOIVIL
DIVIO	SYSTEM	FLR	FLOOR	M/C	MOMENTARY CONTACT	QUAN	QUANTITY	W	WATT
	01012		FLUORESCENT	MC	MECHANICAL CONTRACTOR	RC 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
СВ	CIRCUIT BREAKER	GA	GAUGE	MFR	MANUFACTURER	RTU	ROOF TOP UNIT		
CCTV	CLOSED CIRCUIT TELEVISION	GAL	GALLON	MFS	MAIN FUSED DISCONNECT		OUDEAGE CONDUCT	XFMR	TRANSFORMER
CKT	CIRCUIT	GALV	GALVANIZED	MIL	SWITCH	SC	SURFACE CONDUIT	XFR	TRANSFER
CLG	CEILING	GC	GENERAL CONTRACTOR	MH	MANHOLE	SEC	SECONDARY		
COMB	COMBINATION	GEN	GENERATOR CROUND FAULT CIRCUIT	MIC	MICROPHONE	SHT	SHEET		
CMPR CONN	COMPRESSOR CONNECTION	GFI	GROUND FAULT CIRCUIT INTERRUPTER	MIN MISC	MINIMUM MISCELLANEOUS	SIM S/N	SIMILAR SOLID NEUTRAL		
CONN	CONSTRUCTION	GFP	GROUND FAULT PROTECTOR	MLO	MAIN LUGS ONLY	SPEC	SPECIFICATION	_	ANGLE
CONST	CONTINUATION OR CONTINUOUS	GND	GROUND FAULT PROTECTOR	MMS	MANUAL MOTOR STARTER	SPKR	SPEAKER	@	AT
	CONTRACTOR	GRS	GALVANIZED RIGID STEEL	MOA	MULTIOUTLET ASSEMBLY	SP	SPARE	<u>@</u>	DELTA
CONV	CONVECTOR	51.0	(CONDUIT)	MSP	MOTOR STARTER PANELBOARD	SR	SURFACE RACEWAY		FEET
CP	CIRCULATING PUMP	GYP BE	GYPSUM BOARD	MSBD	MAIN SWITCHBOARD	SS	STAINLESS STEEL	II .	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	С	CENTER LINE
CU	COPPER	HORIZ	HORIZONTAL	MTR	MOTOR, MOTORIZED	STD	STANDARD	Р	PLATE

HT AFF	SYMBOL	DESCRIPTION	HT AFF	SYMBOL	DESCRIPTION	HT AFF	<u>SYMBOL</u>	DESCRIPTION
AS NOTED	HA B	SURFACE LIGHT (TYPE DENOTED)	AS NOTED		MULTIOUTLET ASSEMBLY (TYPE DENOTED)		PP	POWER PACK
	, - , , - ,		AS NOTED	₽▼ ^B	MULTIOUTLET ASSEMBLY (TYPE DENOTED)		RD	REMOTE DRIVER
AS NOTED	├ √ → F	WALL MOUNTED FLOODLIGHT (TYPE DENOTED)	94"	Ю	CLOCK (TYPE DENOTED)	86"	HF	FIRE ALARM HORN W/STROBE (CANDELAS)
	⊘ R	RECESSED LIGHT (TYPE DENOTED)		P	POWER POLE (OPEN OFFICE STYLE)	86"	⊢F € 110cd	FIRE ALARM SPEAKER W/STROBE (CANDELAS)
PER SCHED	● AA	POLE MOUNTED LIGHT (TYPE DENOTED)			CIRCUIT BREAKER PANEL	86"	⊣FD 110cd	FIRE ALARM STROBE (CANDELAS)
PER SCHED	↑ ↑ ↑ BB				POWER OR DISTRIBUTION PANEL	46"	HF	F.A. PULLSTATION
PER SCHED	$\Delta \Delta^{\bullet} \Delta \Delta$	POLE MOUNTED FLOODLIGHT (TYPE DENOTED)			SPECIAL CABINET (TYPE_DENOTED)		<u> </u>	BEAM TYPE SMOKE DETECTORS
	O G	SURFACE LIGHT (TYPE DENOTED)		T1	TRANSFORMER (TYPE DENOTED)	46"	FA ANNUN	FIRE ALARM REMOTE ANNUNCIATOR
P1(•	• • P2	SUSPENDED OR PENDANT LIGHT (TYPE DENOTED)		M	MOTOR (SEE SCHEDULE)		HSD SD	SMOKE DETECTOR (TYPE DENOTED)
	H	RECESSED LIGHT (TYPE DENOTED)			MANUAL MTR. STR. (W/OVERLOADS)		НН Н	HEAT DETECTOR
	F ST1	STRIP LIGHT (TYPE DENOTED)		\boxtimes	MAG. MOTOR STARTER OR CONTACTOR		SD	DUCT SMOKE DETECTOR (TYPE DENOTED)
AS NOTED	S1	TRACK AND TRACK LIGHT (TYPES DENOTED)		\boxtimes_{h}	COMB. MOTOR STARTER (NON-FUSED)		F/S	FIRE/SMOKE DAMPER
86"	EM	EMERGENCY BATTERY LIGHT (TYPE DENOTED)		lacktriangle	COMB. MOTOR STARTER (FUSED)		HRI RI	REMOTE INDICATOR/TEST SWITCH
	H € E € E	EXIT SIGN (TYPE DENOTED)			SAFETY DISC. SW. (NON-FUSED)		H⊕H	F.A. DOOR HOLDER
AS NOTED		LIGHT FIXTURE ON (EM) LIFE SAFETY BRANCH		ightharpoons	SAFETY DISC. SW. (FUSED)		55	SPRINKLER FLOW SWITCH
AS NOTED		LIGHT FIXTURE ON (EM) CRITICAL BRANCH	AS NOTED		BUS DUCT WITH PLUG UN DISCONNECT (FUSED)		$ \longleftrightarrow \longleftrightarrow$	SPRINKLER VALVE TAMPER SWITCH
AS NOTED		LIGHT FIXTURE ON EMERGENCY CIRCUIT		VFD	VARIABLE FREQUENCY DRIVE		DR	DOOR RELEASE
AS NOTED		LIGHT FIXTURE WITH EMERGENCY BALLAST		R	RELAY		DP	DOOR POSITION SWITCH
		LIGHT ON CORD REEL (TYPE DENOTED)		05	OCCUPANCY SENSOR - TYPE DENOTED	46"	HCR	CARD READER
AS NOTED	СНЗ	LIGHTING CHANNEL WIRE (TYPE DENOTED)	AS NOTED	HPC	PHOTOCELL	46"	HKP	KEYPAD
46"	160	SINGLE POLE SW.	46"	HTC	TIME CONTROL SWITCH (TIME SWITCH)		HMD	MOTION DETECTOR (TYPE DENOTED)
46"	(2 POLE SINGLE THROW SW.	46"	\overline{H}	HUMIDISTAT		HML	ELECTROMAGNETIC LOCK
46"	(3-WAY SW.	46"		THERMOSTAT		HD .	ADA PUSHBUTTON SWITCH
46"	(4-WAY SW.	PER SCHED	_ _ →	WALL HEATER (TYPE DENOTED)	46"	+-(N) _M	NURSE CALL MASTER STATION
46"	\(\) \(\) \(\)	KEYED SW.	PER SCHED	□ D1	HAND OR HAIR DRYER (TYPE DENOTED)	46"	+NE	NURSE CALL EMERG. STATION
46"	⊮ P	SW. W/PILOT	18"	\blacktriangleleft	TELEPHONE OUTLET (TYPE DENOTED)	46"	+(N) _{CB}	NURSE CALL CODE BLUE EMERG. STATION
46"	l↔ ^D	DIMMER SWITCH	46"	⋖ w	WALL TELEPHONE OUTLET (TYPE DENOTED)	46"	+NDS	NURSE CALL DUTY STATION
46"	₩ ⁰⁸	OCCUPANCY SENSOR SWITCH	18"	lacksquare	TELECOM OUTLET (TYPE DENOTED)	46"	+(N) _S	NURSE CALL STAFF STATION
46"	(TIMER SWITCH		otin	WIRELESS ACCESS POINT	46"	+(N)	NURSE CALL BED STATION. SINGLE
46"	₩	MOTOR HORSEPOWER RATED SWITCH	46"	+(0)	INTERCOM OUTLET LOCATION	46"	+(N)2	NURSE CALL BED STATION. DOUBLE.
18"	Θ	SINGLE RECEPT.	18"	HTV	TELEVISION OUTLET	86"	$\mathbb{N}_2 \mathbb{N}_2$	NURSE CALL DOME LIGHT
18"	\bowtie	DUPLEX RECEPT.	18"	HAV	AV OUTLET. SEE SPCIFICATIONS.		NCC	NURSE CALL EQUIPMENT CABINET
18"	₩u	USB DUPLEX RECEPT. SEE SPECS	18"	+	MULTIPLE SERVICE OUTLET (TYPE DENOTED)	46"	NC ANNUN	NURSE CALL ANNUNCIATOR PANEL
18"	igoplus	SPLIT DUPLEX RECEPT.			FLOOR BOX, TWO DEVICES (TYPE DENOTED)	AS NOTED	HCM	CAMERA
18"	EM	DUPLEX RECEPT. ON EMERGENCY CIRCUIT			FLOOR BOX, FOUR DEVICES (TYPE DENOTED)			CONDUIT CONCEALED IN WALL OR OVERHEAD
18"	⊭	FOURPLEX RECEPT.						CONDUIT EXPOSED
18"	⊨ EM	FOURPLEX RECEPT. ON EMERGENCY CIRCUIT	18"	H(D)	DICTATION OUTLET LOCATION			CONDUIT TRANSITION UP
18"	₩•	DUPLEX RECEPT, ISOLATED GROUND.	46"	$+ \mathbb{D}^{W}$	WALL DICTATION OUTLET LOCATION			CONDUIT TRANSITION DOWN
18"	•	FOURPLEX RECEPT, ISOLATED GROUND.	86"	HBO	BELL		7	CONDUIT STUBBED OUT
46"	HDF	DEAD FRONT GFCI DEVICE	86"	HB/	BUZZER		/- -	CONDUIT CONCEALED, "E" INDICATES EMERGENC
AS NOTED	H © ©	SPECIAL RECEPT. OR CONN. (SEE SCHEDULE)	86"	HCO	CHIME			CONDUIT EXPOSED, "E" INDICATES EMERGENCY
	H① ①	JUNCTION BOX	46"	H•	PUSH BUTTON		—— OHE —	OVERHEAD ELECTRIC
		DUPLEX FLOOR RECEPT.	86"	H\$ \$	SPEAKER (WALL OR CEILING MT.)			BRANCH CIRCUIT HOME RUN
	#	FOURPLEX FLOOR RECEPT.	86"	HS\ \ \ \ \ \ \ \	HORN TYPE SPEAKER			CABLE TRAY (TYPE DENOTED)
	Ф	DUPLEX CEILING RECEPT.	46"	Ю (VOLUME CONTROL			CONDUIT SLEEVE (SIZE DENOTED)
101:0===	 	FOURPLEX CEILING RECEPT.	18"	⊦	MICROPHONE OUTLET		1	KEYED NOTE (SEE SCHEDULE)
AS NOTED	⊕ _{CD}	RECEPT ON CORD DROP (DUPLEX SHOWN)	18"	HA	AUXILIARY OUTLET		(\$\frac{1}{2}\frac{1}	HATCHED SYMBOL INDICATES REMOVED
AS NOTED	⊖ _{CR}	RECEPT ON CORD REEL (DUPLEX SHOWN)		+	ANTENNA			





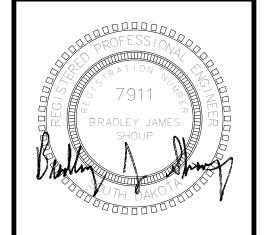
EXISTING POWER RISER DIAGRAM
NO SCALE

ELECTRICAL NOTES

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ACEI PROJ. #122018

ST number <u>0413.2788.18</u> drawn ADP checked BJS 8/23/22 ADDENDUM I

4	_ ' '	, ,	HALL A31 600 AMLO	<u></u>	\sim	GE: 208Y/120V.3Ø4W. NG: 14,000 AMPS SYMN	METRICA	ÀL 3
	(BUŞ	AMPS:	600 AMPS		SPECI	AL:		
				MAIN DE	VICE			
	CB SIZE	POLES	SPECIA	AL .	DESCRIPTION	N/NAMEPLATE		
				SECTION	NO. 1			
СКТ	CB SIZE	Poles	Load		DESCRIPTION	I/NAMEPLATE	ı	OTES
1	300 A	3	89754 VA	PANEL "L1"				
2	200 A	3	55130 VA	PANEL "L5"	~~~			$\rightarrow \sim$
3 '	150 A	3	29113 VA	PANÉL "LS"	N.E. 11411			
4	200 A	2	16640 VA	EXISTING PA				
5 6	100 A 200 A	2	10400 VA 16640 VA	EXISTING PA EXISTING PA				
7	100 A	2	10400 VA	EXISTING PA				
8	50 A	3	11528 VA	AHU-2	1122 0			
بر9 بر	100,A	~\ 3 ~\ ,	~ ~ QVA~ ~	SPARE			J ,J ,	<u>ر</u> ک
10								
11								
12								
				LOAD SUN	//MARY			
					DISTR	RIBUTION LOAD	CONN.	LOA
						MDP1	23783	89 VA
040	CLASSIF	ICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOT	TAL C	
MOTO		ICATION	42734 VA	DEMAND 100.00%	42734 VA	PANEL IUI	ALO	
	110		100233 VA	54.99%	55117 VA			
7()			14559 VA	125.00%	18198 VA			
RCPT			0 VA	0.00%	0 VA			
LITES			4992 VA	100.00%	4992 VA	CONN. LOAD:	227020	١/٨
_ITES SPEC								
LITES SPEC HEAT			75738 VA	101.65%	76984 VA	EST. DEMAND LOAD:		VA
_ITES SPEC					1	CONN. CURRENT:	⊤nhU A	
LITES SPEC HEAT						EST. DEMAND		

,			Į.		·	NG: 18,000 AMPS SYMN	
	BUS	AMPS: 6	600 AMPS	MAINIDE	SPECI	AL:	
	CB SIZE	DOI ES	SPECIA	MAIN DE	1	I/NAMEPLATE	
	CB SIZE	FOLL3	SFLOIP	SECTION		WINAMILFLATE	
CKT	CB SIZE	Poles	Load	OLO HOR	DESCRIPTION	NAMEPLATE	NOTES
1	200 A	3	33763 VA	PANEL "L2"	<u> </u>		
2	150 A	3		PANEL "L3"			
3	175 A	3	40434 VA	PANEL "L4"			
4	100 A	3	23416 VA	PANEL "L9"			
5	200 A	3		ELEVATOR			
6	100 A	3	22336 VA	AHU-1			
7	50 A	3	9006 VA	P-11			
8 9\	100 A	1 1	0 VA	SPARE			
10							<i>3</i>
11							
12							
				LOAD SUN	IMARY		
					DISTR	IBUTION LOAD	CONN. LOAD
					DISTR	MDP2	187373 VA
					DISTR		
I OAD	CI ASSIF	ICATION	CONNECTED	DEMAND		MDP2	187373 VA
	CLASSIF	ICATION	CONNECTED 296 VA	DEMAND 125.00%	ESTIMATED		187373 VA
LOAD Lightin	g	ICATION	296 VA 122956 VA	125.00%		MDP2	187373 VA
Lightin MOTO	g	ICATION	296 VA		ESTIMATED 370 VA 122956 VA	MDP2	187373 VA
Lightin MOTO RCPT	g	ICATION	296 VA 122956 VA 50907 VA	125.00% 100.00% 59.82%	ESTIMATED 370 VA 122956 VA 30454 VA	MDP2	187373 VA
Lightin MOTO RCPT LITES	g	ICATION	296 VA 122956 VA 50907 VA 15278 VA	125.00% 100.00% 59.82% 125.00%	ESTIMATED 370 VA 122956 VA 30454 VA 19097 VA	MDP2 PANEL TOT	187373 VA
Lightin MOTO RCPT LITES SPEC	g	ICATION	296 VA 122956 VA 50907 VA 15278 VA 0 VA	125.00% 100.00% 59.82% 125.00% 0.00%	ESTIMATED 370 VA 122956 VA 30454 VA 19097 VA 0 VA	PANEL TOT	187373 VA TALS 187373 VA
Lightin MOTO RCPT LITES SPEC HEAT	g	ICATION	296 VA 122956 VA 50907 VA 15278 VA 0 VA 1200 VA	125.00% 100.00% 59.82% 125.00% 0.00%	ESTIMATED 370 VA 122956 VA 30454 VA 19097 VA 0 VA 1200 VA	PANEL TOT CONN. LOAD: EST. DEMAND LOAD:	187373 VA ALS 187373 VA 187373 VA
Lightin MOTO RCPT LITES SPEC	g	ICATION	296 VA 122956 VA 50907 VA 15278 VA 0 VA	125.00% 100.00% 59.82% 125.00% 0.00%	ESTIMATED 370 VA 122956 VA 30454 VA 19097 VA 0 VA	PANEL TOT	187373 VA 187373 VA 187373 VA 171284 VA 520 A

LOCATION: MOUNTING: SURF MAIN DEVICE: 200 A BUS AMPS: 200 A	MLO			<u></u>	–(´A.I,C. Ì	LTAGE:	208Y/1	20 V. 3 ø 4 AMPS SY	$\sim\sim$	IÇAL)					
LOAD DESCRIPTION	BKR	POLES	СКТ		A		3	С	:	СКТ	POLES	BKR	LOA	D DESCRIP	TION
LITES MECH B001 / B002	20 A	1	1	0.7	0.7	-				2	1	20 A	RCPT ME		
RCPT ELEC B002	20 A	1	3	J	U	0.8	0.0			4	1	20 A		E ALARM C	ONTROL
HEAT EVAPORATOR HEATER *	20 A	1	5					1.2	1.4	6	1	20 A	P-7		
MISC EXISTING BOILER B-1	20 A	1	7	0.6	1.4					8	1	20 A	P-8		
SHUNT-TRIP			9			0.0	1.1			10	1	20 A	P-9		
MOTORS EXISTING BOILER B-1	20 A	1	11					1.4	0.7	12	2	20 A	MOTORS	B-2	
SHUNT-TRIP			13	0.0	0.7					14					
P-1	15 A	3	15			0.8	0.0			16			SHUNT-T	RIP	
			17					0.8	0.8	18	3	15 A	P-2		
	<u>~~</u>	\\\\	119	~0.8	V-0.8V	~~~	~~~	~~~	~~~	20					
P-3	50 A	3	21			3.0	0.8			22~		~~~	~~~~	$\sim\sim\sim$	$\overline{\sim}$
			23					3.0	3.0	24	3	50 A	P-4		
			25	3.0	3.0					26					
Spare	20 A	1	27			0.0	3.0			28					
Spare	20 A	1	29					0.0	0.0	30	1	20 A	Spare		
Spare	20 A	1	31	0.0	0.0					32	1	20 A	Spare		
Spare	20 A	1	33			0.0	0.0			34	1	20 A	Spare		
Spare	20 A	1	35					0.0	0.0	36	1	20 A	Spare		
Spare	20 A	1	37	0.0	0.0					38	1	20 A	Spare		
Space		<u> </u>	39	m	mu.	<u> </u>	\0.0\			40			Space		
Space			41					0.0	0.0	42		-	Space		
	7	TOTAL L	OAD:	12	2 kVA	9 k	VA	12 k	VA						
	7	TOTAL A	MPS:	1	01 A	79	Α	107	Α						
LOAD CLASSIFICATION		CONNE	CTED		DEMAN	ND	EST	IMATED				PANE	L TOTALS		
RCPT		1260	VA		100.00	%	12	60 VA							
MOTORS		30152	VA		100.00	%	30	152 VA			CC	NNECT	ED LOAD:	33763 VA	,
LITES		728 \	/A		125.00			11 VA					DEMAND:		
MISC		600 \			100.00			00 VA					CURRENT:		
HEAT		1200			100.00			00 VA					CURRENT:		
112/11		1200	ν Λ		100.00	70	12	.00 VA			LOI. DL	IIIAIID (JOININE IT I	57 A	
		~~~	<u> </u>	$\sim$											

turumung.

i i	POLES 2 1 1 1 1 1 1 1 1 2 2 1 1 1 1	5 CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	1.6 0.6 0.6 0.6	A.I.C.	RATING:	B 1.0 2.6 1.0 0.6	20 V. 3 ø 4 AMPS SY 1.2 1.2	MMETR	CKT 2 4 6 8 10 12 14	POLES 2 1 1 2 1	20 A  20 A 20 A 50 A  20 A	EXISTING EXISTING EXISTING RCPT EXI	D DESCRIPTION  KITCHEN FRIDGE  LOAD  ABOVE ICE MAKER  STING LUNCH ROOM  S. KITCHEN
A A A A A A A A A A A A A A A A A A A	2  1 1 1 1 1 1 1 1 1 1 2  2  1 1	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	0.6 0.6 0.6	1.0 1.2 0.6 1.0	1.6	1.0	1.2	2.6	2 4 6 8 10 12 14	2  1 1 2 	20 A  20 A 20 A 50 A  20 A	EXISTING EXISTING EXISTING RCPT EXI	LOAD ABOVE ICE MAKER STING LUNCH ROOM
A A A A A A A A A A A A A A A A A A A	 1 1 1 1 1 1 1 1 1 1 2  2  1 1	3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	0.6 0.6 0.6	1.2 0.6 1.0	1.0	2.6 1.0 0.6	0.0	2.6	4 6 8 10 12 14	1 1 2	 20 A 20 A 50 A  20 A	EXISTING EXISTING EXISTING RCPT EXI	LOAD ABOVE ICE MAKER STING LUNCH ROOM
A A A A A A A A A A A A A A A A A A A	1 1 1 1 1 1 1 1 1 1 2  2  1 1 1	5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	0.6	0.6	1.0	2.6 1.0 0.6	0.0	2.6	6 8 10 12 14	1 1 2 	20 A 20 A 50 A  20 A	EXISTING RCPT EXI	ABOVE ICE MAKER STING LUNCH ROOM
A A A A A A A A A A A A A A A A A A A	1 1 1 1 1 1 1 1 1 1 2  2  1 1 1	7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	0.6	0.6	1.0	0.6	0.0	2.6	8 10 12 14	1 2	20 A 50 A  20 A	EXISTING RCPT EXI	ABOVE ICE MAKER STING LUNCH ROOM
A A A A A A A A A A A A A A A A A A A	1 1 1 1 1 1 1 1 2  2  1 1 1	9 11 13 15 17 19 21 23 25 27 29 31 33 35 37	0.6	0.6	1.0	0.6	0.0		10 12 14	2	50 A  20 A	RCPT EXI	STING LUNCH ROOM
A A A A A A A A A A A A A A A A A A A	1 1 1 1 1 1 1 2  2  1 1 1	11 13 15 17 19 21 23 25 27 29 31 33 35 37	0.6	1.0	1.0	0.6	0.0		12 14		 20 A		
A A A A A A A A A A A A A A A A A A A	1 1 1 1 1 1 2  2  1 1 1	13 15 17 19 21 23 25 27 29 31 33 35 37	0.6	1.0	1.0	0.6	0.0		14	1		EVICTIVIO	S. KITCHEN
A A A A A A A A A A A A A A A A A A A	1 1 1 1 1 1 2  2  1 1 1	15 17 19 21 23 25 27 29 31 33 35 37	0.6	1.2	1.0	0.6		0.6				I EAIS HNG	
A A A A A A A A A	1 1 1 1 2  2  1 1 1	19 21 23 25 27 29 31 33 35 37	0.6	1.2				0.6	16	1	20 A		ANSUL FIRE SYSTEM
A A A A A A A	1 1 1 2  2  1 1 1 1	21 23 25 27 29 31 33 35 37	0.6	1.2			0.6		18	1	20 A	EXISTING	LOAD
A A A A A A A A	1 1 2  2  1 1 1	23 25 27 29 31 33 35 37					0.6		20	1	20 A	EXISTING	LOAD
A A A A A A A	1 2  2  1 1 1	25 27 29 31 33 35 37			0.5	1.6	0.6		22	1			GUIDANCE
A A A A A A	2  2  1 1 1	27 29 31 33 35 37			0.5	1.6	0.0	0.6	24	1			S.E. OFFICE
A A A A A A	 2  1 1 1	29 31 33 35 37	6.2	1.0	0.5	16			26	1			SERVER COMPUTER
A A A A A A	2  1 1 1	31 33 35 37	6.2	1.0		1.6			28	2		EXISTING	DRYER
A A A A A A	1 1 1 1	33 35 37	6.2	1.0			0.5	1.6	30	-			
A A A A A	1 1 1	35 37				4.0			32	2		EXISTING	LUNCH ROOM
A A A A A	1 1 1	37			6.2	1.0	0.0	4.0	34			 EVIOTINO	LIEATED VENIT
A A A A	1		0.0	0.0			0.6	1.0	36	1			HEATER VENT
A A A	1		0.6	0.6	0.6	1.2			38 40	1			STING KITCHEN STING KIT. COMP.
A A A		41			0.6	1.2	0.6	0.6	40	1			GUIDANCE
A A	<u> </u>	43	0.6	0.6			0.0	0.0	44	1			S.E. OFFICE
Α	1	45	0.0	0.0	1.2	1.6			46	2		EXISTING	
	1	47			1.2	1.0	1.2	1.6	48				DITTER
	1	49	0.6	0.6			1.2	1.0	50	1	20 A	EXISTING	LOAD
A	1	51	0.0	0.0	0.6	0.6			52	1		EXISTING	
Α	1	53					0.6	1.6	54	1		MOTORS	
Α	2	55	1.0	1.0					56	1	20 A	LITES HA	LL A31 / KIT A34
		57			1.0	0.8			58	1	20 A	LITES CO	RR A29
Α	1	59					0.4	0.8	60	1			. STOR. A34
Α	1	61	0.2	0.7					62	1			. STOR. A34
Α	1	63			0.2	0.2			64	1			. STOR. A34
							0.2	0.4					
			2.5	1.2									
					2.5	0.8	0.0	0.0					
			0.0	0.0			0.8	0.8					
			0.2	0.8	1.0	1.0							
					1.0	1.0	0.5	0.4					
			0.6	1.0			0.5	0.4					
			0.0	1.0	0.6	1.0							_ v -1
					5.5	1.0	0.6	0.5	84	1		MOTORS	EF-A28
		85	0.6	0.6					86	1			
	1	87	}		0.6	0.6			88~	1_			
Ã	2	89	<i>y</i>				1.9	0.6	90	1	V V	V · V · V	<u> </u>
		91	1.9	0.6				(	92	1	20 A	MOTORS	UV-A103
	1	93			0.0	0.0			94	11	\20\A~	Spare~	
	1						0.0	0.0	96	1		<u> </u>	
Α	1		0.0	0.0						1		<u> </u>	
•					0.0	0.0						<u> </u>	
			2.5	2.2			0.0	0.0				<u> </u>	
			0.0	0.0	0.0	0.0						<u> </u>	
					0.0	0.0	0.0	0.0				<u> </u>	
	TAL I		20	) k\/\	22	k\/^			108			opace	
									-				
											DANIE	I TOTAL O	
								_			FANE	L IUIALS	
								-			NINIE CE	ED LOSS	00754374
	4992	VA		100.00	)%	49	92 VA			EST. DE	MAND C	CURRENT:	203 A
	A A A A A A A A A A A A A A A A A A A	A 1 A 2 A 1 A 1 A 1 A 1 A 1 A 3 A 1 A 1 A 1 A 3 TOTAL L TOTAL A CONNE 47608 17878 5401	A 1 65 A 2 67 69 A 1 71 A 1 73 A 1 75 A 1 77 A 1 79 A 3 81 83 85 A 1 87 A 2 89 91 A 1 93 A 1 95 A 1 97 99 101 103 105 - TOTAL LOAD: TOTAL AMPS:	A 1 65 A 2 67 2.5 69 A 1 71 A 1 73 0.2 A 1 75 A 1 77 A 1 79 0.6 A 3 81 83 85 0.6 A 1 87 A 2 89 91 1.9 A 1 93 A 1 95 A 1 97 0.0 101 103 0.0 105 107 TOTAL LOAD: 32 TOTAL AMPS: 2 CONNECTED  47605 VA 17878 VA 5401 VA 14213 VA	A 1 65 A 2 67 2.5 1.2 69 A 1 71 A 1 73 0.2 0.8 A 1 75 A 1 77 A 1 79 0.6 1.0 A 3 81 83 85 0.6 0.6 A 1 87 A 2 89 91 1.9 0.6 A 1 93 A 1 95 A 1 97 0.0 0.0 99 101 103 0.0 0.0 105 107  TOTAL LOAD: 32 kVA  TOTAL AMPS: 274 A  CONNECTED DEMAN 47605 VA 60.50 17878 VA 100.00 5401 VA 125.00 14213 VA 105.54	A 1 65 A 2 67 2.5 1.2 69 2.5 A 1 71 A 1 73 0.2 0.8 A 1 75 1.0 A 1 77 A 1 79 0.6 1.0 A 3 81 83 85 0.6 0.6 A 1 87 A 1 93 91 1.9 0.6 A 1 93 A 1 95 A 1 97 0.0 0.0 101 103 105 107  TOTAL LOAD: 32 kVA 33  TOTAL AMPS: 274 A 28  CONNECTED DEMAND  47605 VA 60.50% 17878 VA 100.00% 5401 VA 125.00% 14213 VA 105.54%	A 1 65	A	A 1 65	A 1 65	A 1 65	A 1 65	A 1 65

1. PROVIDE GFI CIRCUIT BREAKERS AS REQUIRED BY THE NEC AND LOCAL CODE REQUIREMENTS.

MOUNTING: REMAIN DEVICE: 200 BUS AMPS: 200	CESSED A MLO AMPS	NEMA1			A.I.C.	_	10,000	20 V. 3 ø 4 AMPS SY		RICAL				
LOAD DESCRIPTION	BKR	POLES	СКТ		Α		В	С		СКТ	POLES	BKR	LOA	AD DESCRIPTION
RCPT ELEVATOR E01	20 A	1	1	0.2	0.2					2	1	20 A	RCPT EL	.EV. EQUIP A36
LITES ELEVATOR E01	20 A	1	3			0.1	0.2			4	1	20 A	RCPT CL	ASS B207
LITES ELEV. EQUIP A36	20 A	1	5					0.1	0.9	6	1	20 A	RCPT CL	ASS B207
RCPT CLASS B211	20 A	1	7	1.1	0.4					8	1	20 A	LITES RF	R B 208 / 2010
RCPT ELEV. LOBBY A35	20 A	1	9			0.4	0.5			10	1	20 A	RCPT RF	R B208/B210 SINKS
			11						1.4	12	1	20 A	RCPT CH	HAPEL A116
LITES LIBRARY B121	20 A	1	13	1.2	1.1					14	1	20 A	LITES LE	ARN CENT. B123
LITES CLASS B116	20 A	1	15			1.2	0.7			16	1	20 A		ARN CENT. B123
RCPT CLASSB116	20 A	1	17					1.1	0.7	18	1	20 A		ORK B120
RCPT Space 35	20 A	1	19	1.1	0.7					20	1	20 A		BRARY B121
RCPT LIBRARY B121	20 A	1	21			0.7	0.7			22	1	20 A	RCPT CC	ONFERENCE B122
RCPT LIBRARY B121	20 A	1	23					0.7	1.5	24	1	20 A		ONFERENCE B122
MISC	20 A	1	25	0.6	1.0					26	1	15 A		S FP-B116
MOTORS FP-B123C	20 A	1	27			0.9	0.9			28	1	15 A		S FP-B123B
MOTORS FP-121A	15 A	1	29					1.0	0.9	30	1	15 A		S FP-B123A
MOTORS FP-121B	15 A	1	31	0.9	0.6					32	1	15 A		S FP-A116
MOTORS FP-B205C	15 A	1	33			1.0	1.0			34	1	15 A		S FP-B207
RCPT RR B210/B208	20 A	1	35					0.5	0.5	36	1	20 A		S EF-B209
RCPT-JAN-B209	20-A	1	37	1.1	1.0					38	1	15_A		S-FP-B205B
Spare	20 A	1	39	<u> </u>		0.0	0.0			40	1	20 Å	Spare	~ ~ ~ ~ ~ ~
Spare	20 A	1	41	)———— !				0.0	0.0	- 42	1	20 A	Spare	
Spare	20 A	1	43	0.0	0.0					44	1	20 A	Spare	
Spare	20 A	1	45	)		0.0	0.0			46	1	20 A	Spare	
Spare	20 A	1	47					0.0	0.0	48	1	20 A	Spare	
Spare	20 A	1	49	0.0	0.0					<del>-</del> 50	1	20 A	Spare	
Space			51			0.0	0.0			52			Space	
Space			53	)				0.0	0.0	54			Space	
	<del></del>	FOTAL L	OAD:	11	kVA	8 k	VΑ	9 k\	/A	Tu.			tim	
		TOTAL A		Ç	91 A	67	7 A	77	A					
LOAD CLASSIFICATION		CONNE			DEMA			IMATED				PANE	L TOTALS	<u> </u>
RCPT		14074			85.53			037 VA				. ,		
MOTORS		9821			100.00			21 VA					ED I OAD:	27807 VA
LITES		4033			125.00			42 VA						26774 VA
MISC		600	VA		100.00	)%	60	00 VA					URRENT:	
											EST. D	EMAND (	URRENT:	74 A
NOTES:														

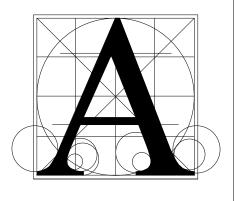
LOCATION: Sp	ace 32		PA	NEI	LBOA			20 V. 3 ø 4	١٨/						
MOUNTING: RE MAIN DEVICE: 200 BUS AMPS: 200	CESSED 0 A MLO 0 AMPS	NEMA1			A.I.C. I		10,000	AMPS SY		RICAL					
LOAD DESCRIPTION	BKR	POLES	СКТ		Α	ı	В	С		СКТ	POLES	BKR	LOA	AD DESCRIPTION	
LITES CLASS B203 / B204	20 A	1	1	1.3	0.9					2	1	20 A	RCPT CL	ASS B204	
RCPT CLASS B204	20 A	1	3			0.9	1.7			4	1	20 A	RCPT CC	NF. B206	
RCPT CLASS B206	20 A	1	5					0.9	0.9	6	1	20 A	RCPT CL	ASS B206	
RCPT CLASS B202	20 A	1	7	0.9	0.9					8	1	20 A	RCPT CL	ASS B202	
RCPT LEARN CENT. B205	20 A	1	9			0.7	0.2			10	1	20 A	RCPT LE	ARN CENT. B205 EV	
LITES B100 / B107-B111	20 A	1	11					0.9	1.4	12	1	20 A	LITES PF	RINC B103 / CLASS	
LITES LOBBY A117	20 A	1	13	0.5	1.4					14	1	20 A	RCPT PF	RINCIPAL B101	
RCPT RECEPTION B100	20 A	1	15			1.1	0.5			16	1	20 A	RCPT W	ORK B111	
RCPT WORK B111 COPIER	20 A	1	17					0.2	0.5	18	1	20 A	RCPT NU	JRSE B109	
RCPT NURSE B109	20 A	1	19	0.2	1.7					20	1	20 A	RCPT CC	NFERENCE B102	
RCPT PRINCIPAL B103	20 A	1	21			1.1	0.7			22	1	20 A	RCPT HA	LLWAY	
RCPT GUIDANCE B104	20 A	1	23					0.9	0.4	24	1	20 A	RCPT ST	AFF B105	
RCPT FILE B106	20 A	1	25	0.5	0.4					26	1	20 A	RCPT ST	AFF B105 ISLAND	
RCPT STAFF B105 FRIDGE	20 A	1	27			1.2	0.2			28	1	20 A		AFF B105	
RCPT STAFF B105	20 A	1	29					0.2	1.2	30	1	20 A	RCPT ST	AFF B105 MICRO	
RCPT STAFF B105 MICRO	20 A	1	31	1.2	0.4					32	1	20 A	RCPT ST	AFF B105	
RCPT CLASS B112	20 A	1	33			1.1	0.9			34	1	20 A	RCPT CL	RCPT CLASS B112	
RCPT CONFERENCE B115	20 A	1	35					1.7			1	20 A	RCPT LEARN CENT. B123		
RCPT ENTRY A119 DOORS	20 A	1	37	0.6	1.0					38	1	15 A	MOTORS FP-B112		
MOTORS FP-B105	15 A	1	39			0.6	0.6			40	1	15 A			
MOTORS FP-B115	15 A	1	41					0.6	0.6	42					
MOTORS FP-B206	15 A	1	43	0.6	1.0					44	1	15 A	15 A MOTORS FP-B204		
MOTORS FP-B203	15 A	1	45			1.0	1.0			46	1	15 A	MOTORS	OTORS FP-B202	
MOTORS-EE-B108	~20A_	_1_	<del>4</del> 7					0.5	0.7	48	1	20 A	MOTORS	CUH-A119	
MOTORS RF-2	15 A	3	49	₹ 0.9	0.0					50	1	20 A	Spare		
			51	₹		0.9	0.0			52	1	20 A	Spare		
		,	53	)				0.9	0.0	54	1	20 A	Spare		
					4 kVA		kVA	13 k							
LOAD CLASSIFICATION	1	CONNE			18 A <b>DEMA</b>		8 A <b>EST</b>	105	<u> </u>			DANE	I TOTAL C		
RCPT		26425			68.92°			IMATED 212 VA				FAINE	L TOTALS		
MOTORS		10639			100.00			39 VA			C	ONNECT	ED LOAD:	40434 \/Δ	
LITES		4166			125.00			08 VA						33265 VA	
LIILO		4100	٧٨		123.00	70	52	00 VA					CURRENT:		
											E91. DI	EIVIAND (	CURRENT:	92 A	
NOTES:															

BUS AMPS: 200 A			ı										
LOAD DESCRIPTION	BKR	POLES	СКТ		<b>A</b>		В	(	:	СКТ	POLES	BKR	LOAD DESCRIPTION
EXISTING LOAD	20 A	1	1	0.6	0.6					2	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	3			0.6	0.6			4	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	5					0.6	0.6	6	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	7	0.6	0.6					8	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	9			0.6	0.6			10	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	11					0.6	0.6	12	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	13	0.6	0.6					14	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	15			1.2	1.2			16	1	20 A	EXISTING LOAD
EXISTING LOAD	30 A	2	17					1.6	1.2	18	1		LITES EXISTING HALL
			19	1.6	1.2					20	1		-
LITES EXISTING RELIGION	20 A	1	21			1.2	0.6			22	1		
EXISTING N. SCIENCE TABLE	20 A	1	23					1.2	1.2	24	1	20 A	EXISTING S. SCIENCE TABLE
EXISTING PRINCIPAL OFFICE	20 A	1	25	0.6	1.2					26	1	20 A	EXISTING S. H.S. HALL
EXISTING CONCESSION	20 A	1	27			1.2	1.2			28	1	20 A	EXISTING UP. HALLWAY
EXISTING SERVER RACK	20 A	1	29		4 -			1.2	1.2	30	1 1	20 A	EXISTING SERVER RACK
LITES EXISTING HEALTH ROOM	20 A	1	31	1.2	1.2					32	1	20 A	
EXISTING UP. HALLWAY	20 A	1	33			0.6	0.6	2.2	1.0	34	1	20 A	EXISTING HALL EXHAUST
LITES CORR. 101A	20 A	1	35	4.0	0.4			0.9	1.2	36	1 1		LITES CLASS A115
LITES CLASS A120 / RR 121/123	20 A	1	37	1.2	0.4	0.4	0.4			38	1 1		RCPT IT A124 DATA RACK
RCPT IT A124 DATA RACK	20 A	1	39			0.4	0.4	4.4	0.0	40	1		
RCPT JAN A122	20 A	1	41	4.0	0.4			1.1	0.2	42	1 1	20 A	RCPT RR 121 & 123
RCPT CLASS A115	20 A	1	43	1.2	0.4	0.4	0.4			44	1	20 A	RCPT CLASS A115
RCPT CLASS A115	20 A	1	45			0.4	0.4	1.0	1.0	46 48	1	20 A	RCPT CLASS A115
RCPT CLASS A120	20 A	1	47	0.7	1 1			1.2	1.2	50	1	20 A	RCPT CLASS A120 RCPT CLASS A120
RCPT CLASS A120 MOTORS UV-A115	20 A	1	49 51	0.7	1.1	1.0	0.4			52	1 1	20 A	RCPT CLASS A120
RCPT COMPUTER A120	15 A 20 A	1	53			1.0	0.4	0.2	1.0	54	1	20 A 15 A	MOTORS UV-A120
MOTORS FCU-A124	15 A	1	55	1.0	0.6			0.2	1.0	_56_	1		MOTORS CUH-A100
MISC KILN A115A	50 A	2	57	1.0	0.0	4.0	0.6			58	1	<u> </u>	MOTORS UV-A209
TYPE TO THE TOTAL	30 A		59			7.0	0.0	4.0	0.6	60	1	15 A	MOTORS UV-A2010
MOTORS UV-A205	15 A	1	61	₹0.6	0.0			1.0	5.5	62	1	20 A	Spare
Spare	20 A	1	63	3	0.0	0.0	0.0			64	1	20 A	Spare
Spare	20 A	1	65	<del>)                                    </del>		0.0	0.0	0.0	0.0	66	1	20 A	Spare
Spare	20 A	1	67	0.0	0.0				1	68	1	20 A	Spare
Spare	20 A	1	69	1		0.0	0.0			70	1	20 A	Spare
Spare	20 A	1	71	7		7.0		0.0	0.0	72	1	20 A	Spare
Spare	20 A	1	73	0.0	0.0					74	1	20 A	Spare
Spare	20 A	1	75	3		0.0	0.0		\	76	1	20 A	Spare
Spare	20 A	1	77	<del>\</del>				0.0	0.0	78	1	20 A	Spare
Spare	20 A	1	79	₹0.0	0.0					80	1	20 A	Spare
Spare	20 A	1	81			0.0	0.0		1	82	1	20 A	Spare
Spare	20 A	1	83	3				0.0	0.0	84	1	20 A	Spare
	~~ <b>1</b>	COTAL/L	OAD:	17	kVA	17	kVA	21 k	ίVΑ				
	Т	OTAL A	MPS:	1	43 A	14	4 A	173	3 A				
LOAD CLASSIFICATION		CONNE	CTED		DEMA	ND	EST	IMATED				PANI	EL TOTALS
RCPT		34205	VA		64.62	%	22	102 VA					
MOTORS		5495			100.00			95 VA			CC	NNFC	<b>TED LOAD:</b> 55130 VA
LITES		7598			125.00			97 VA					DEMAND: 44924 VA
MISC													CURRENT: 153 A
WIIOU		7904	٧A		100.00	70	78	04 VA					
											ESI. DE	IVIAND	CURRENT: 125 A

**PANELBOARD: L5** 

			PA	NEL	BOA	RD:	LS							
LOCATION: ST	OR A208				VC	DLTAGE:	: 208Y/1	20 V. 3 ø 4	W.					
<b>MOUNTING</b> : SU	RFACE NE	EMA1			A.I.C.	RATING:	10,000	AMPS SY	MMETR	RICAL				
MAIN DEVICE: 200	) A MLO					PECIAL								
BUS AMPS: 200														
LOAD DESCRIPTION	BKR	POLES	скт		A		В	С		СКТ	POLES	BKR	LOA	AD DESCRIPTION
LITES CLASS 204 / 212	20 A	1	1	1.7	1.0					2	1	20 A		ORAGE A206
RCPT SCIENCE A 205	20 A	1	3	- • •	1.0	1.0	1.0			4	1	20 A		IENCE A 205
RCPT SCIENCE A 205	20 A	1	5					1.0	1.0	6	1	20 A		IENCE A 205
RCPT SCIENCE A 205	20 A	1	7	1.0	1.0					8	1	20 A		IENCE A 205 (GFI C
RCPT SCIENCE A 205	20 A	1	9			1.0	1.0			10	1	20 A		IENCE A 205
RCPT SCIENCE A 205	20 A	1	11					1.0	1.0	12	1	20 A		IENCE A 205
RCPT SCIENCE A 205	20 A	1	13	1.0	1.0					14	1	20 A	RCPT SC	IENCE A 205
RCPT SCIENCE A 205	20 A	1	15			1.0	1.0			16	1	20 A	RCPT SC	IENCE A 205
RCPT SCIENCE A 205	20 A	1	17					0.9	1.0	18	1	20 A	RCPT SC	IENCE A 205
RCPT LOCKER A211	20 A	1	19	0.4	0.9					20	1	20 A	RCPT CL	ASS A204
RCPT CLASS A204	20 A	1	21			0.7	0.2			22	1	20 A	RCPT CO	RR A202
RCPT CLASS A212	20 A	1	23					0.9	1.1	24	1	20 A	RCPT CL	ASS A212
WQTORS EF-A122 & A208	~~20-A~	1	25	1.3	1.1					~26~	1	20 A	MOTORS	EF-A101
MOTORS EF- A201	15 A	3	27	3		0.6	0.5		(	28	1	20 A	MOTORS	EF-A111
-			29	{				0.6	0.6	30~		15 A	MOTORS	ÚV-A204
<del></del>			31	0.6	0.6					32	1	15 A	MOTORS	UV-A212
MOTORS FCU-A210A	15 A	1	33			0.4	0.2			_~34~	_1_	√20 _A ∕	RERI ST	ORAGĘ A210A
MOTORS EF-A202	15 A	3	35	ζ				0.6	0.0(	36	1	20 A	Spare	
-			37	0.6	0.0					38			Space	
<del>.</del>			39	$\langle$		0.6	0.0			40			Space	
Spare	20 A	11	41					0.0	0.0	42			Space	
	4	POTALL	OAD:	11	kVA	9 k	ΚVA	9 kV	'A					
	Т	TOTAL A	MPS:	9	6 A	71	ΙA	77 .	A					
LOAD CLASSIFICATION		CONNE	CTED		DEMA	ND	EST	IMATED				PANE	L TOTALS	
RCPT		20382	VA		74.53	%	15	191 VA						
MOTORS		8043	VA		100.00	)%	80	)43 VA			CO	NNECT	ED LOAD:	29113 VA
LITES		1685			125.00			06 VA					DEMAND:	
		.000			.20.00		<u></u>						CURRENT:	
													CURRENT:	
											ESI. DE	INIAIND (	JURKENI:	00 A

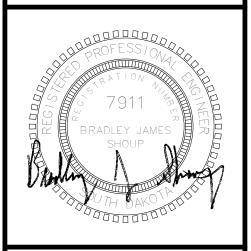
			PA	NE	LBOA	RD:	: L9						
LOCATION: MEC MOUNTING: SUR	EMA1			A.I.C. I	RATING	: 10,000	20 V. 3 ø 4 AMPS SY		RICAL				
MAIN DEVICE: 100 a BUS AMPS: 100 a					S	PECIAL	:						
LOAD DESCRIPTION	BKR	POL ES	СКТ		Α		В	С		СКТ	POLES	BKR	LOAD DESCRIPTION
LITES CLASSROOM 201 / 202	20 A	1	1	1.2	2.5					2	1	20 A	LITES LEARN, CENTER B205
LITES MECH. 214 / CONF. 213	20 A	1	3	1.2	2.5	1.3	1.2			4	1	20 A	LITES CLASS 211 / 212
RCPT CLASS B201	20 A	1	5			1.0	1.2	0.9	0.9	6	1	20 A	RCPT CLASS B201
RCPT CLASS B211	20 A	1	7	0.9	0.9			0.5	0.5	8	1	20 A	RCPT CLASS B212
RCPT CLASS B212	20 A	1	9	0.5	0.0	0.9	0.4			10	1	20 A	RCPT MECH B214 SERVER
RCPT MECH B214 SERVER	20 A	1	11			0.0	0.1	0.4	0.7	12	1	20 A	RCPT CONF. B213
RCPT CONF. B213	20 A	1	13	1.1	0.7			***		14	1	20 A	RCPT FLEX A203
RCPT HEALTH A213	20 A	1	15			0.9	0.7			16	1	20 A	RCPT HEALTH A213
LITES WEST EXTERIOR	20 A	1	17					0.2	0.2	18	1	20 A	LITES EAST EXTERIOR
MOTORS FP-B211	15 A	1	19	1.0	1.0					20	1	15 A	MOTORS FP-B205A
MOTORS FP-B212	15 A	1	21			0.9	1.0			22	1	15 A	MOTORS FP-B201
MOTORS FP-A203	15-A	1	~23~					1.0	0.6	24	1	15 A	MOTORS FP-A213
MOTORS RF-1	15 Å	3	25	₹ 0.9	0.0					26	1	20 A	Spare
			27	R		0.9	0.0			28	1	20 A	Spare
<del></del>			29					0.9	0.0	30	1	20 A	Spare
	<u> </u>	TOTAL	LOAD:	1	0 kVA	81	kVA	6 kV	/A				
	•	TOTAL	AMPS:	<u> </u>	86 A	69	9 A	46	Α				
LOAD CLASSIFICATION		CONN	ECTED	)	DEMAI	ND	EST	<b>IMATED</b>				PANE	EL TOTALS
Lighting		296	VA		125.00	%	3.	70 VA					
RCPT		920	5 VA		100.00	1%	92	205 VA			CC	ONNECT	<b>ED LOAD:</b> 23416 VA
MOTORS		831	8 VA		100.00	1%	83	318 VA			EST	IMATED	<b>DEMAND</b> : 25026 VA
LITES		635	4 VA		125.00	1%	79	942 VA			CONN	ECTED (	CURRENT: 65 A
													CURRENT: 69 A
									_		_0		30.0.2.111



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CATHOLIC SCHOOL

2788.18 2022

 number
 O4 | 3.2788.18

 date
 7-3 | -2022

 revision
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 DESCRIPTION

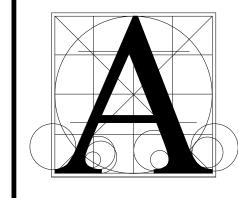
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 ADDENDUM I

	T	MARY'S CATHOLIC SCHOOL, DEL RAPIDS, SD			ACEI Project No	
/PE	MFR. COLUMBIA	NUMBER EQUAL	LAMPS	VOLTS	DESCRIPTION	NOTE
A	METALUX LITHONIA	24CGTS-NUV EQUAL	LED/4000K	120	LED, 2'X4' RECESSED FLAT PANEL, BACKLIT, SELECTABLE LUMENS AND COLOR TEMP. SET TO 4400 LUMENS/40K.	
Æ	COLUMBIA METALUX	EQUAL 24CGTS-NUV-EL14W	LED/4000K	120	SAME AS TYPE "A" EXCEPT EMERGENCY BACKUP.	
	LITHONIA COLUMBIA	EQUAL EQUAL		-		
Æ	METALUX WILLIAMS	24CGTS-NUV-DF-24W-U EQUAL	LED/4000K	120	SAME AS TYPE "A" EXCEPT FLANGE MOUNT.	
FE	COLUMBIA DAY-BRITE	EQUAL 24CGTS-NUV-EL14W-DF-24W-U	LED/4000K	120	SAME AS TYPE "AF" EXCEPT EMERGENCY BACKUP.	
	WILLIAMS COLUMBIA	EQUAL EQUAL				
A1	METALUX LITHONIA	24CGTS-NUV EQUAL	LED/4000K	120	SAME AS TYPE "A" EXCEPT SET TO 4800 LUMENS/40K.	
A1E	COLUMBIA METALUX	EQUAL 24CGTS-NUV-EL14W	LED/4000K	120	SAME AS TYPE "A1" EXCEPT EMERGENCY BACKUP.	
	LITHONIA COLUMBIA	EQUAL EQUAL		0		
A2	METALUX LITHONIA	24CGTS-NUV3 EQUAL	LED/4000K	120	SAME AS TYPE "A" EXCEPT SET TO 5900 LUMENS/40K.	
A2E	COLUMBIA METALUX	EQUAL 24CGTS-NUV-EL14W	LED/4000K	120	SAME AS TYPE "A2" EXCEPT EMERGENCY BACKUP.	
	LITHONIA COLUMBIA	EQUAL EQUAL				
В	DAY-BRITE WILLIAMS	2FGXG-43L-840-4-DS-UNV-DIM	LED/4000K	120	LED, 2'X4' RECESSED ARCHITECTURAL, ROUND ACRYLIC DIFFUSER, APPROXIMATELY 4300 LUMENS.	
BE	COLUMBIA DAY-BRITE	EQUAL 2FGXG-43L-840-4-DS-UNV-DIM-BSL10LST	LED/4000K	120	SAME AS TYPE "B" EXCEPT EMERGENCY BACKUP.	
<u></u>	WILLIAMS COLUMBIA	EQUAL EQUAL	EEB/4000K	120	STANIE TO THE B EXCELL EMERGENCY BROKET.	
B1	DAY-BRITE WILLIAMS	2FGXG-48L-840-4-DS-UNV-DIM EQUAL	LED/4000K	120	SAME AS TYPE "B" EXCEPT APPROXIMATELY 4800 LUMENS.	
B1E	COLUMBIA DAY-BRITE	EQUAL 2FGXG-48L-840-4-DS-UNV-DIM-BSL10LST	LED/4000K	120	SAME AS TYPE "B1" EXCEPT EMERGENCY BACKUP.	
	WILLIAMS COLUMBIA	EQUAL EQUAL	LLD/4000K	120	SAME AS THE BY EXCELLED ENGLISHED BACKOT.	
С	DAY-BRITE METALUX	OWL-4-50L-840-UNV EQUAL	LED/4000K	120	LED, 4' SURFACE WRAPAROUND, ACRYLIC LENS, APPROXIMATELY 5000 LUMENS.	
CE	COLUMBIA DAY-BRITE	EQUAL OWL-4-50L-840-UNV-EMLED	LED/4000K	120	SAME AS TYPE "C" EXCEPT EMERGENCY BACKUP.	
<u> </u>	METALUX CREE	EQUAL	LED/4000K	120	SAME AS TIFE & EXCEPT EMENGENCY BACKOF.	
D	DAY-BRITE LUMAX	FSI4-40L840-UNV-DIM-PAF	LED/4000K	120	LED, INDUSTRIAL FIXTURE, CABLE HUNG, PAINT AFTER FABRICATION, APPROXIMATELY 4000 LUMENS.	1
DW	CREE DAY-BRITE	FSI4-40L840-UNV-DIM-PAF	LED/4000K	120	SAME AS TYPE "D" EXCEPT WALL MOUNTED.	
DVV	LUMAX CREE	F314-40L040-UNV-DIIVI-PAF	LED/4000K	120	SAME AS TIPE D'EXCEPT WALL MOUNTED.	
DS	DAY-BRITE LUMAX	FSI4-40L840-UNV-DIM-PAF	LED/4000K	120	SAME AS TYPE "D" EXCEPT SURFACE MOUNTED.	
D1	CREE DAY-BRITE	TOTA EEL 040 LINNA DIM DAT	1 ED/4000K	120	SAME AS TYPE "D" EXCEPT APPROXIMATELY 5500 LUMENS.	1
D1	LUMAX CREE	FSI4-55L840-UNV-DIM-PAF	LED/4000K	120	SAME AS TYPE D'EXCEPT APPROXIMATELY 5500 LUMENS.	1
D1S	DAY-BRITE LUMAX	FSI4-55L840-UNV-DIM-PAF	LED/4000K	120	SAME AS TYPE "D1" EXCEPT SURFACE MOUNTED.	
DOM	CREE	FOLA 701 040 LINNA DIA DA F	LED/4000K	400	CANAL ACTIVE IIDIA/II EVOEDT ADDDOVINAATELY 7000 LUNAENIC	
D2W	DAY-BRITE LUMAX	FSI4-70L840-UNV-DIM-PAF	LED/4000K	120	SAME AS TYPE "DW" EXCEPT APPROXIMATELY 7000 LUMENS.	
E	SURE-LITES DUAL-LITE	EQUAL EVE-U-R-W-E-I	INCLUDED	120	LED EXIT LIGHT, SINGLE STENCIL FACE, RED LETTERS, WHITE HOUSING,	
	LIGHTALARMS PATHWAY	EQUAL EQUAL			SELF-TESTING/SELF-DIAGNOSTIC ELECTRONICS, DIRECTIONAL ARROWS AND MOUNTING AS INDICATED.	
E1	SURE-LITES DUAL-LITE	EQUAL EVE-U-R-W-E-I	INCLUDED	120	SAME AS TYPE E EXCEPT DOUBLE FACE.	
	LIGHTALARMS PATHWAY	EQUAL EQUAL				
E2	EMERGI-LITE DUAL-LITE	LZ2-I	INCLUDED	120	EMERGENCY LIGHTING UNIT, WHITE THERMO-	
	SURE-LITES CHLORIDE				PLASTIC HOUSING. LED EXIT LIGHT/EMERGENCY TANDEM UNIT, SINGLE STENCIL	
E3	DUAL-LITE LIGHTALARMS	LTURW-I	INCLUDED	120	FACE, RED LETTERS, WHITE THERMOPLASTIC HOUSING, DIRECTIONAL ARROWS AND MOUNTING AS INDICATED,	
	MULE CHLORIDE				SELF-TESTING/SELF-DIAGNOSTIC ELECTRONICS.	
E4	DUAL-LITE LIGHTALARMS	LTURW-3-I	INCLUDED	120	SAME AS TYPE "E3" EXCEPT REMOTE CAPACITY.	
	MULE CHLORIDE					
E5	DUAL-LITE LIGHTALARMS	OCR-S-Z-0605	INCLUDED		REMOTE HEAD, DIE-CAST ALUMINUM, DARK BRONZE FINISH.	
	MULE ASTRALITE					
E6	EMERGI-LITE LIGHTALARMS	BZ-LUX-SD-CW	INCLUDED	120	LED EXTERIOR EMERGENCY LUMINAIRE, SELF-DIAGNOSTICS, COLD WEATHER OPTION.	
F	NULITE	RG4-06L40UD-STF-WH-6	LED/3500K	120	LED, 6' LENGTH, 4" APERTURE RECESSED LINEAR FIXTURE, SATIN WHITE	
					FLUSH LENS, APPROXIMATELY 724 LUMENS/FOOT.	
FE	NULITE	RG4-06L40UD-B12-STF-WH-6	LED/3500K	120	SAME AS TYPE "F" EXCEPT EMERGENCY BACKUP.	
G	CREE MERCURY	EQUAL LW14-4-4500-40K-HTA-1%-UNI	LED/4000K	120	LED, 4' ARCHITECTURAL LINEAR WALL MOUNT,	
	LUMAX	EQUAL EQUAL			APPROXIMATELY 4500 LUMENS.	
GE	MERCURY LUMAX	LW14-4-4500-40K-HTA-1%-UNI-EM10 EQUAL	LED/4000K	120	SAME AS TYPE "G" EXCEPT EMERGENCY BACKUP.	
Н	PORTFOLIO ALPHABET	NU4-RD-SW-20LM-40K-80-D60-UNV-10V-NC-MC-MC	LED/4000K	120	LED, 4" RECESSED ROUND DOWNLIGHT, WIDE DISTRIBUTION, APPROXIMATELY 1700 DELIVERED LUMENS,	
	WILLIAMS PORTFOLIO	TOVERS WIGHT			DAMP LOCATION LISTED.	
HE	ALPHABET WILLIAMS	NU4-RD-SW-20LM-40K-80-D60-UNV-10V-NC-MC-MC-EM	LED/4000K	120	SAME AS TYPE "H" EXCEPT EMERGENCY BACKUP.	
H1	PORTFOLIO ALPHABET	NU4-RD-SW-30LM-40K-80-D60-UNV-10V-NC-MC-MC	LED/4000K	120	SAME AS TYPE "H" EXCEPT APPROXIMATELY 2500 LUMENS.	
	WILLIAMS PORTFOLIO		LEDITOUN	120		
H1E	ALPHABET WILLIAMS	NU4-RD-SW-30LM-40K-80-D60-UNV-10V-NC-MC-MC-EM	LED/4000K	120	SAME AS TYPE "H1" EXCEPT EMERGENCY BACKUP.	
J#	ALERA LEDALITE	EQUAL 7726-LAAVA-XX-7DE-W-A248	LED/4000K	277	LED, SUSPENDED LINEAR DIRECT/INDIRECT, SCULPTED	2,3
υπ	CORELITE ALERA	EQUAL EQUAL	LLD/4000K	<u> </u>	ENDCAPS, APPROXIMATELY 6700 LUMENS PER 4'.	۷,3
J#E	LEDALITE CORELITE	7726-LAAVA-XX-NDE-W-A248 EQUAL	LED/4000K	277	SAME AS TYPE "J#" EXCEPT EMERGENCY BACKUP (1400 LUMENS) WHERE SHOWN ON PLANS.	2,3,4
1	FOCAL POINT LIGHTOLIER	6RN/P6RSL10840CLPZ10U	I ED/4000K	120	,	
L	PRESCOLITE	ONIMI GINGE 10040CLFZ 100	LED/4000K	IZU	LED, 6" RECESSED ROUND DOWNLIGHT, WIDE DISTRIBUTION, UL WET LOCATION, LENSED, APPROXIMATELY 1000 LUMENS.	
M	STARTEK	SLW-08-S-SD-40K-CA-SMW-U	LED/4000K	120	LED, 8' SURFACE MOUNT, DIFFUSE LENS, CLEAR	
					ANODIZE FINISH, APPROXIMATELY 12,500 LUMENS.	
Υ	BEACON NLS LIGHTING	NV-W-T3-16L-7-40K-UNV-WM-BRZ	LED/4000K	120	LED, EXTERIOR WALL MOUNTED FIXTURE, DARK BRONZE	
	CREE BEACON				FINISH, APPROXIMATELY 4700 LUMENS.	
Y1	NLS LIGHTING CREE	NV-W-T3-32L-7-40K-UNV-WM-BRZ	LED/4000K	120	SAME AS TYPE "Y" EXCEPT APPROXIMATELY 9600 LUMENS.	
Z	NLS LIGHTING	NV-F1-30-16L-45-40K-UNV-KM-BRZ-NA	LED/4000K	120	LED, EXTERIOR BUILDING MOUNTED FLOOD LIGHT, DARK	
					BRONZE FINISH, APPROXIMATELY 4550 LUMENS.  LED, SITE LIGHTING UNIT, APPROXIMATELY	
					LEB, CITE EIGHTING GIVIT, 74 T NOXIMENTEET	1

		MENT SCHEDOLE FOR ST. MART S SCHOOL ADD	THON, DELL	KAPIDS SD			AC	E1 P10ject #. 12201
	NO.	DESCRIPTION	KW	HP	MCA	VOLTS	PH	NOTES
	1	CHILLER CH-1	-	-	456	208	3	1
	3	AIR HANDLING UNIT AHU-1 AHU-2	-	10	-	208	3	2,3
	4	PRIMARY HTG PUMP P-1	-	1.5	-	208	3	4
	5	PRIMARY HTG PUMP P-2	-	1.5	-	208	3	4
	6	SECONDARY HTG PUMP P-3	-	7.5	-	208	3	5
	7	SECONDARY HTG PUMP P-4	-	7.5	-	208	3	5
	8	RHW PUMP P-5	-	1/6	-	120	1	6
	9	RHS (140) PUMP P-6	-	1/12	-	120	1	6
	10	SUMP PUMP P-7	-	3/4	-	120	1	7
	11	SUMP PUMP P-8	-	3/4	-	120	1	7
	12	SEWAGE PUMP P-9	-	1/2	-	120	1	7
	13	SUMP PUMP P-10  CHILLER PUMP P-11	-	3/4 7.5	-	120 208	3	7
	15	BOILER B-1	.6	1	20,20	120	1	6,8
	16	B-2	1.4	-	15	208	1	6,8
	17	FAN POWERED VAV FP-A116	-	1/3	-	120	1	9
	18	FP-A203	-	2 @ 1/3	-	120	1	9
	19	FP-A213	-	1/3	-	120	1	9
	20	FP-B101	-	1/3	-	120	1	9
	21	FP-B102	-	1/3	-	120	1	9
	22	FP-B105	-	1/3	-	120	1	9
	23	FP-B112	-	2 @ 1/3	-	120	1	9
	24	FP-B115	-	1/3	-	120	1	9
	25	FP-B116	-	2 @ 1/3	-	120	1	9
	26	FP-B121A FP-B121B	-	2 @ 1/3	-	120 120	1	9
	28	FP-B123A	-	1/2	-	120	1	9
	29	FP-B123B	-	1/2	-	120	1	9
	30	FP-B123C	-	1/2	-	120	1	9
	31	FP-B201	-	2 @ 1/3	-	120	1	9
	32	FP-B202	-	2 @ 1/3	-	120	1	9
	33	FP-B203	-	2 @ 1/3	-	120	1	9
	34	FP-B204	-	2 @ 1/3	-	120	1	9
	35	FP-B205A	-	2 @ 1/3	-	120	1	9
	36	FP-B205B FP-B205C	-	2 @ 1/3	-	120	1	9
	37	FP-B205C FP-B206	-	2 @ 1/3	-	120 120	1	9
	39	FP-B207	-	2 @ 1/3	-	120	1	9
	40	FP-B211	-	1/2	-	120	1	9
	41	FP-B212	-	1/2	-	120	1	9
	42	UNIT VENTILATOR UV-A26-1	-	1/3	-	120	1	9
	43	UV-A26-2	-	1/3	-	120	1	9
	44	UV-A26-3	-	1/3	-	120	1	9
	45	UV-A102	-	1/3	-	120	1	9
	46	UV-A103	-	1/3	-	120	1	9
	47	UV-A115	-	1/3	-	120	1	9
	48	UV-A120 NOT USED.	-	1/3	-	120	1 -	9
	50	UV-A204	-	1/3	-	120	1	9
		UV-A205	_	1/3	_	120	1	9
	52	UV-A209	-	1/3	-	120	1	9
	53	UV-A210	-	1/3	-	120	1	9
	54	UV-A212	-	1/3	-	120	1	9
	55	FAN COIL UNIT FCU-A12	-	-	9	120	1	9
	56	FCU-A13A	-	-	9	120	1	9
	57	FCU-A13B	-	-	9	120	1	9
	58	FCU-A124	-	-	9	120	1	9
	59	FCU-A210A EXHAUST FAN EF-A28	-	1/6	9	120	1	9 13
	59 60	EF-A32	-	1/6	-	120 208	3	13
	61	EF-A33	.08	-	-	120	1	9
	62	EF-A101	-	1/2	-	120	1	9
	63	EF-A111	~~~	1/4		120	1	9
	64	EF-A115A	-	1/4	-	120	1	9
	65	EF-A122		1/4	-	120	1	~~~~~
	66	EF-A201	-	1	-	208	3 \$	9
	67	EF-A202	-	1	-	208	3 {	9 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	67	EF-A208 /1	-	1/4	-	120	1	
	68	EF-B108	-	1/4	-	120	1	9
	69 70	EF-B209  CABINET UNIT HEATER CUH-A16	ستس	1/4	سنِب	120	1	9
	71	CUH-A18	_	1/10	-	120	1	9
	1	CUH-A19	-	1/10	-	120	1	9
	72			1/15,1/10	-	120	1	9
	72 73	CUH-A22	-	,		400	1	9
		CUH-A22 CUH-A24	-	1/10	-	120	. — —	9
	73				-	120	1	
	73 74 75 76	CUH-A24 CUH-A25 CUH-A32	-	1/10 1/10 1/10		120 120	1 1	9
	73 74 75 76 77	CUH-A24 CUH-A25 CUH-A32 CUH-A35	-	1/10 1/10 1/10 1/10	-	120 120 120	1 1	9
	73 74 75 76 77	CUH-A24 CUH-A25 CUH-A32 CUH-A35 CUH-A100	-	1/10 1/10 1/10 1/10 1/10		120 120 120 120	1 1 1	9 9 9
	73 74 75 76 77 77	CUH-A24 CUH-A25 CUH-A32 CUH-A35 CUH-A100 CUH-A119		1/10 1/10 1/10 1/10 1/10 1/15,1/10	- - - -	120 120 120 120 120	1 1 1 1	9 9 9
	73 74 75 76 77 77 78 79	CUH-A24  CUH-A25  CUH-A32  CUH-A35  CUH-A100  CUH-A119  UNIT HEATER UH-A11	- - - - -	1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20	- - - -	120 120 120 120 120 120	1 1 1 1 1 1	9 9 9 9 9
	73 74 75 76 77 77	CUH-A24 CUH-A25 CUH-A32 CUH-A35 CUH-A100 CUH-A119 UNIT HEATER UH-A11 UH-A38		1/10 1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20 1/20	- - - -	120 120 120 120 120 120 120	1 1 1 1	9 9 9 9 6 6
	73 74 75 76 77 77 78 79 80	CUH-A24  CUH-A25  CUH-A32  CUH-A35  CUH-A100  CUH-A119  UNIT HEATER UH-A11	- - - - -	1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20	- - - - -	120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1	9 9 9 9 9
	73 74 75 76 77 77 78 79 80 81	CUH-A24  CUH-A25  CUH-A32  CUH-A35  CUH-A100  CUH-A119  UNIT HEATER UH-A11  UH-A38  UH-B001	- - - - - -	1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20 1/20 1/20	- - - - -	120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 9 9 6 6 6
	73 74 75 76 77 77 78 79 80 81 82	CUH-A24  CUH-A35  CUH-A35  CUH-A100  CUH-A119  UNIT HEATER UH-A11  UH-A38  UH-B001  WALK-IN FREEZER COND. UNIT CU-F	- - - - - - -	1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20 1/20 1/20 -	- - - - - - - 30	120 120 120 120 120 120 120 120 120 208	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 9 9 6 6 6 6
	73 74 75 76 77 77 78 79 80 81 82 83	CUH-A24  CUH-A25  CUH-A32  CUH-A35  CUH-A100  CUH-A119  UNIT HEATER UH-A11  UH-A38  UH-B001  WALK-IN FREEZER COND. UNIT CU-F  WALK-IN FREEZER EVAPORATOR EV-F	- - - - - - -	1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20 1/20 1/20 -	- - - - - - - 30	120 120 120 120 120 120 120 120 120 208 208	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 9 9 6 6 6 10
	73 74 75 76 77 77 78 79 80 81 82 83 84	CUH-A24  CUH-A25  CUH-A32  CUH-A35  CUH-A100  CUH-A119  UNIT HEATER UH-A11  UH-A38  UH-B001  WALK-IN FREEZER COND. UNIT CU-F  WALK-IN FREEZER EVAPORATOR EV-F  KILN	- - - - - - - - - - - 8	1/10 1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20 1/20	- - - - - - - 30 20	120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 9 9 6 6 6 6 10 11
<u>^</u>	73 74 75 76 77 77 78 79 80 81 82 83 84 85	CUH-A24  CUH-A35  CUH-A35  CUH-A100  CUH-A119  UNIT HEATER UH-A11  UH-A38  UH-B001  WALK-IN FREEZER COND. UNIT CU-F  WALK-IN FREEZER EVAPORATOR EV-F  KILN  WATER HEATER WHTR-1	- - - - - - - - - - - 8	1/10 1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20 1/20	- - - - - - - 30 20	120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 9 9 6 6 6 10 11 12 6
<u></u>	73 74 75 76 77 77 78 79 80 81 82 83 84 85	CUH-A24  CUH-A25  CUH-A32  CUH-A35  CUH-A100  CUH-A119  UNIT HEATER UH-A11  UH-A38  UH-B001  WALK-IN FREEZER COND. UNIT CU-F  WALK-IN FREEZER EVAPORATOR EV-F  KILN  WATER HEATER WHTR-1  WHTR-2	- - - - - - - - - - - 8	1/10 1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20 1/20	- - - - - - - 30 20	120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 9 9 6 6 6 10 11 12 6
1	73 74 75 76 77 77 78 79 80 81 82 83 84 85 86 87	CUH-A24  CUH-A35  CUH-A35  CUH-A100  CUH-A119  UNIT HEATER UH-A11  UH-A38  UH-B001  WALK-IN FREEZER COND. UNIT CU-F  WALK-IN FREEZER EVAPORATOR EV-F  KILN  WATER HEATER WHTR-1  WHTR-2  RELIEF FAN RF-1  RF-2	- - - - - - - - - - - 8	1/10 1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20 1/20 2	- - - - - - - 30 20	120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 3	9 9 9 9 6 6 6 10 11 12 6
<u></u>	73 74 75 76 77 77 78 79 80 81 82 83 84 85 86 87 88	CUH-A25 CUH-A32 CUH-A35 CUH-A100 CUH-A119 UNIT HEATER UH-A11 UH-A38 UH-B001 WALK-IN FREEZER COND. UNIT CU-F WALK-IN FREEZER EVAPORATOR EV-F KILN WATER HEATER WHTR-1 WHTR-2 RELIEF FAN RF-1 RF-2 NOTES:	- - - - - - - - 8 1	1/10 1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20 1/20 2 2		120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 3 3 3	9 9 9 9 6 6 6 10 11 12 6 9 9
1	73 74 75 76 77 77 78 79 80 81 82 83 84 85 86 87 88	CUH-A25 CUH-A32 CUH-A35 CUH-A100 CUH-A119 UNIT HEATER UH-A11 UH-A38 UH-B001 WALK-IN FREEZER COND. UNIT CU-F WALK-IN FREEZER EVAPORATOR EV-F KILN WATER HEATER WHTR-1 WHTR-2 RELIEF FAN RF-1 RF-2 NOTES: PROVIDE A NEMA 3R MAIN FUSED DISCONNECT		1/10 1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20 1/20 2 2		120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 3 3 3	9 9 9 9 6 6 6 10 11 12 6 9 9
1	73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88	CUH-A25 CUH-A32 CUH-A35 CUH-A100 CUH-A119 UNIT HEATER UH-A11 UH-A38 UH-B001 WALK-IN FREEZER COND. UNIT CU-F WALK-IN FREEZER EVAPORATOR EV-F KILN WATER HEATER WHTR-1 WHTR-2 RELIEF FAN RF-1 RF-2 PROVIDE A NEMA 3R MAIN FUSED DISCONNECT CONTROL BY MECHANICAL CONTRACTOR (MC)		1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/15,1/10 1/20 1/20 2 2 2 DS-CH" (FUSE		120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 3 3 3 TION TO C	9 9 9 9 6 6 6 10 11 12 6 9 9
1	73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88	CUH-A25 CUH-A32 CUH-A35 CUH-A100 CUH-A119 UNIT HEATER UH-A11 UH-A38 UH-B001 WALK-IN FREEZER COND. UNIT CU-F WALK-IN FREEZER EVAPORATOR EV-F KILN WATER HEATER WHTR-1 WHTR-2 RELIEF FAN RF-1 RF-2  NOTES: PROVIDE A NEMA 3R MAIN FUSED DISCONNECT AND CONTROL BY MECHANICAL CONTRACTOR (MC) PROVIDE CONNECTION TO VFD/DISCONNECT AND CONTROL BY MECHANICAL CONTRACTOR (MC)		1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10		120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 3 3 3 TION TO C	9 9 9 9 6 6 6 10 11 12 6 9 9
1	73 74 75 76 77 77 78 79 80 81 82 83 84 85 86 87 88	CUH-A25 CUH-A32 CUH-A35 CUH-A100 CUH-A119 UNIT HEATER UH-A11 UH-A38 UH-B001 WALK-IN FREEZER COND. UNIT CU-F WALK-IN FREEZER EVAPORATOR EV-F KILN WATER HEATER WHTR-1 WHTR-2 RELIEF FAN RF-1 RF-2 PROVIDE A NEMA 3R MAIN FUSED DISCONNECT CONTROL BY MECHANICAL CONTRACTOR (MC)		1/10 1/10 1/10 1/10 1/10 1/10 1/10 1/10		120 120 120 120 120 120 120 120 120 120	1 1 1 1 1 1 1 1 1 1 3 3 3 TION TO C	9 9 9 9 6 6 6 10 11 12 6 9 9

EQUIPMENT SCHEDULE FOR ST. MARY'S SCHOOL ADDITION, DELL RAPIDS SD

- 5. PROVIDE CONNECTION TO VFD/DISCONNECT AND PUMP. VFD/DISCONNECT AND CONTROL BY MC.
- 6. PROVIDE A MANUAL MOTOR STARTER TOGGLE SWITCH. CONTROL BY MC.
- 7. PROVIDE POWER CONNECTION TO CONTROL PANEL/DISCONNECT AND CONNECTION TO PUMP(S) AND FLOAT SWITCHES. COORDINATE INSTALLATION WITH MC.
- 8. INTERLOCK "BOILER EMERGENCY OFF" PUSHBUTTON SWITCH WITH SHUNT TRIP CIRCUIT BREAKER IN PANELBOARD.
- 9. PROVIDE A SINGLE POINT POWER CONNECTION. DISCONNECT AND CONTROL BY MC.
- 10. PROVIDE A NEMA 3R NON-FUSED DISCONNECT SWITCH. 11. PROVIDE A MANUAL MOTOR STARTER WITH THERMAL OVERLOAD.
- 12. PROVIDE A NEMA 6-50R RECEPTACLE. 13. PROVIDE PILOT LIGHT SWITCH FOR CONTROL. DISCONNECT AT FAN BY MC.
- 14. PROVIDE A COMBINATION MAGNETIC STARTER/NONFUSED DISCONNECT SWITCH WITH H.O.A., 2 N.O, AND 2 N.C. CONTACTS, AND PILOT LIGHTS. PROVIDE PILOT LIGHT SWITCH AT KITCHEN HOOD FOR CONTROL.

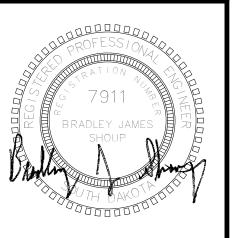


ACEI Project #: 122018

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ACEI PROJ. #122018

MARY'S CATHOLIC SCHOOL ECTRICAL

SCHEDULES

number 0413.2788.18 date <u>7-31-2022</u>

revision_ drawn ADP checked BJS

D. DATE DESCRIPTION 8/23/22 ADDENDUM I