

PROJECT: ADDENDUM NO.: 3

Willow Lake School Addition

OWNER: DATE OF ISSUANCE: Willow Lake School District 12-3 February 23, 2023

Willow Lake, SD 57278

ARCHITECT:

CO-OP Architecture

440 E 8th Street, Suite 221 Sioux Falls, SD 57103

To all bidders and all others to whom drawings and specifications have been issued by CO-OP Architecture.

Acknowledge receipt of this addendum by listing its number and date in the bidders Form of Proposal. Failure to do so may subject bidder to disqualification. This Addendum forms a part of the Contract Documents.

It modifies them as follows:

QUESTIONS AND RESPONSES

- 1) Property Insurance/Builder's Risk by Owner?
 - a. RESPONSE: Correct.
- 2) Was elevation 5/A402 intended to have a markerboard in lieu of a 96" tackboard?
 - a. RESPONSE: No
- 3) On S100b there are (2) C2 columns sitting on F1 footings. No elevation is given on TOF.
 - a. RESPONSE: TOF will need to be field verified, design intent is existing floor elevation 98'-4".

GENERAL ITEMS:

- 1) See attached Bid Form
 - a. Alternate No. 1: Operable Wall Partitions
 - i. Revised to say: Alternate No. 1 Operable Wall Partitions at Flex Classrooms.
 - b. Alternate No. 5: Poured-in-Place Playground Surfacing
 - i. Revised to say: Alternate No. 5: Poured-In-Place Playground Surfacing for Alternate 4
 Playground Areas Only
- 2) See attached Plan Holder's List

APPROVED SUBSTITUTIONS:

<u>SECTION</u> PARAGRAPH REQUESTED SUBSTITUTION/MANUFACTURER
095400 MCP- 1A/1B Armstrong CT Architectural Multibox Linear

KEYNOTE UPDATES:

<u>KEYNOTE</u>	<u>DESCRIPTION</u>
10.09	Provide approximately 8"x8" arial font window film for entrance identification. Allow for 1 letter
	at each location indicated. Coordinate with architect on lettering. Finish to be white.
11.10	Refrigerator; (Owner provided contractor installed).
11.13	Range Hood; See mechanical plans for more information.
11.15	Drop-In Range; (Owner provided Contractor Installed).
11.18	Washer/Dryer; (Owner provided contractor installed).

REVISIONS TO SPECIFICATIONS:

1) 09 5100 - ACOUSTICAL CEILINGS

_ _ _ _ . _ . . _ . . .

- a. Paragraph 2.02.C.1
 - i. Revise to say the following: "Profile: Tee; 15/16 inch wide face.
- 2) 09 7800 INTERIOR WALL PANELING: See attached spec section for revisions in **bold**.
- 3) 10 1100 VISUAL DISPLAY UNITS
 - a. Paragraph 1.07B Markerboards: GM-1
 - i. Remove this paragraph in its entirety.
- 4) 10 2800 TOILET, BATH, AND LAUNDRY ACCESSORIES: See attached spec section for revisions in **bold**.
- 5) 10 5100 LOCKERS
 - a. 2.02A.2: Revise to say "Depth: 12 inches."
 - b. 2.02.A.C: Remove this section in its entirety.
- 6) 32 1216 ASPHALT PAVING
 - a. PART 2.02.A Class E-1 and E-2 will be allowed in lieu of Class G-1 and G-2 specified.

REVISIONS TO DRAWINGS:

- 1) Sheet G004 PHASING PLAN
 - a. Revised note as indicated.
- 2) Sheet SP201 SITE LAYOUT PLAN
 - a. Revised location of proposed valley gutter within the playground.
 - b. Revised ramp location adjacent to the proposed building addition along Monroe Avenue.
 - c. Revised concrete walk with integral curb extents adjacent to the proposed building addition along Monroe Avenue.
 - d. Adjusted extents of gravel surfacing to reflect grading plan revisions.
- 3) Sheet SP301 SITE GRADING PLAN
 - a. Adjusted grades around the proposed building addition.
 - b. Adjusted grades on the proposed playground.
 - c. Adjusted grades on the new gravel parking lot.
- 4) Sheet L101 SITE PLANTING PLAN
 - a. Turf Reinforcement Mat noted in keynote #4 is to meet SD DOT Type 1 Turf Reinforcement Mat.
- 5) Sheet D101B DEMOLITION PLAN AREA 'B'
 - a. Added note for demolition of lockers.
- 6) Sheet D101C DEMOLITION PLAN AREA 'C'



- a. Added notes to clarify metal framed walls.
- b. Revised demolition around existing men's room to reflect keeping the existing plumbing/steel stud wall and only removing the metal framed wall adjacent.
- 7) Sheet A100 OVERALL FIRST FLOOR PLAN
 - a. Revised extents of gray 'no work' area.
- 8) Sheet A101B FIRST FLOOR PLAN AREA 'B'
 - a. Added keynotes as indicated for locations of fluid applied waterproofing.
 - b. Graphically cleaned up entry to Flex Class B107 so demo'ed lockers were not visible.
- 9) Sheet A101C FIRST FLOOR PLAN AREA 'C'
 - a. Revised extents of gray area.
 - b. Added keynote for mop/broom holder location.
- 10) Sheet A110C REFLECTED CLG PLAN AREA 'C'
 - a. Revised plan as shown in the clouded areas.
- 11) Sheet A119 FINISH SCHEDULE & LEGENDS
 - a. FINISH LEGEND
 - i. TB-3: Clarified finish at perimeter edges.
 - ii. PLY-1: Clarified thickness of material
 - iii. WD-1: Revised notes as indicated.
 - b. ROOM FINISH SCHEDULE
 - i. C112: Revised finish notes as indicated.
- 12) Sheet A122 ENLARGED FINISH PLANS AREA(S) C&E
 - a. Removed finishes in the Boys restroom.
- 13) Sheet A400 ENLARGED PLANS & INTERIOR ELEVATIONS
 - a. 1/A400: Clarified locations of mirrors and paper towel dispenser locations.
 - b. 13/A400: Clarified locations of grab bars and sanitary napkin disposals.
 - c. 5/A400: Added location of solid surface sill on existing window.
- 14) Sheet A403 ENLARGED PLANS & INTERIOR ELEVATIONS
 - a. 1/A403: Clarified location of mop and broom holder.
 - b. 10,12,13/A403: Clarified locations of microwaves in FACS D104
- 15) Sheet A404 ENLARGED PLANS & INTERIOR ELEVATIONS
 - a. 3/A404: Added notes for acid storage cabinet and countertop/brackets.
 - b. 9/A404: Clarified location of microwave in WORKROOM D105.
 - c. 10/A404: Added notes for beaker racks in SCIENCE D106.
- 16) Sheet A405 ENLARGED PLANS & INTERIOR ELEVATIONS
 - a. 1/A405: Added notes for towel hooks, paper towel dispensers as indicated.
 - b. 2/A405: Revised detail callout.
- 17) Sheet A406 ENLARGED PLANS & INTERIOR ELEVATIONS
 - a. 2/A406: Revised dimensions as shown.
- 18) Sheet A510 INTERIOR DETAILS
 - a. 1/A510: Revised to show existing metal stud wall to remain in place.
 - b. Added details 9,10,11,12/A510.
- 19) Sheet A511 INTERIOR DETAILS
 - a. Revised 7/A511 as indicated.
- 20) Sheet A600 DOOR SCHEDULE & DETAILS
 - a. Added D199B to door schedule.
- 21) Sheet A610 GLAZING ELEVATIONS
 - a. Added head details to SF8 and SF10/C1



22) Sheet A611 – GLAZING DETAILS

a. Removed detail 11/A611 as it is not used.

ADDENDA ITEMS – MECHANICAL/ELECTRICAL

1) See attached ME-2 Addendum

ADDENDA ITEMS – FOOD SERVICE

1) See attached Addendum No. 3 from Food Service.

END OF ADDENDUM



BID FORM

PROJECT:	Willow Lake School Addition		
TO:	Willow Lake School District 12-3 400 Garfield Avenue Willow Lake, South Dakota 57278		
Bid of:	(hereinafter called "Bidder")		
and electrical) work f with related docume surrounding the cons proposes to furnish a Contract Documents all expenses incurred Bidder hereby agrees	or the proposed building renovations, hants and the site of the proposed work, a struction of the proposed project, included II labor, materials and supplies, and to a within the time set forth therein, and a fin performing the work required under a to commence work under this Contract	For the Complete Construction (general, medaving examined the drawings and specification desired familiar with all of the conditions ing the availability of materials and labor, he construct the project in accordance with the tension that the prices stated below. These prices are to the Contract Documents of which this Bid is ton or before a date to be specified in writte project at the dates set forth in the Contract	ons reby o cover s a part
BIDDER AGREES TO P	ERFORM THE COMPLETE CONSTRUCTION	N for the following sum:	
For the following Bas	e Bid:		
		(\$	
Line Item #1 (to be i areas.:	ncluded in Base Bid above): Temperatu	re Control work required for addition and r	emode
		(\$	
Line Item #2 (to be i Existing Building that	·	re Control Work Required for the Remainde	r of th
		(\$	
Alternate No. 1: Ope	rable Wall Partitions at Flex Classrooms		
(ADD)		(\$)
Alternate No. 2: Lock	er Room Area Expansion		
(ADD)		(\$)
Alternate No. 3: Wall	c-off Carpet at Existing Vestibules		
(ADD)		(\$)

Alternate No. 4: Pla	yground Equipment and Surfacing		
(ADD)		(\$)
Alternate No. 5: Po	ured-in-Place Playground Surfacing for Alterna	te No. 4 Playground Areas	
(ADD)		(\$)
Alternate No. 6: Re-	-Installation of Existing Salvaged Playground Eq	uipment	
(ADD)		(\$)
UNIT PRICES:			
	avation of Unsuitable Material I and Compacted Fill	\$ \$	Per CuYd Per CuYd
ADDENDA: The undersigned acwith the stipulation	knowledge receipt of addenda as noted and th s set forth herein.	e bid submitted herewith i	s in accordance
ADDENDUM NO ADDENDUM NO	DATEDDATED		
ADDENDUM NO			

The undersigned agrees that his bid may not be withdrawn for a period of 30 days from the time set for opening of bids and that if notified of acceptance of his Proposal within the stated time, or at any time thereafter before the bid is withdrawn, he will within ten (10) days of such notification, execute and deliver a Contract in the Form of Contract specified.

ADDENDUM NO____ DATED _____

The Contractor shall commence work under this Contract within ten (10) calendar days after the date of receipt by him of Notice to Proceed, to prosecute said work diligently, and to complete the entire project ready for use at the dates set forth in the Contract Documents. The time stated for completion shall include a time allowance for inspections, completion of items requiring further attention and a final cleanup of premises.

The above bid includes State and Local Sales Tax on materials and all other State and Federal Taxes that would affect the amount of the bid.

In submitting this bid it is understood that the right is reserved by the Architect and Owners to reject any and all bids and to waive all informalities.

BIDDER:	 	 	
BY:	 	 	
TITLE:	 	 	
BUSINESS ADDRESS:	 	 	
STATE OF INCORPORATION: (SEAL)		 	



Willow Lake School Addition/Renovation Plan Holders List

Trade	Name	Location	e-Mail	Phone
	Ow	vner & Design Team		
Owner	Willow Lake School District 12-3	Willow Lake, SD	chris.lee@k12.sd.us	605.625.5945
Architect	CO-OP Architecture	Sioux Falls, SD	levi@co-oparch.com	605-334-9999
Landscape	Confluence	Sioux Falls, SD	lpudwill@thinkconfluence.com	605-339-1205
Structural	RISE, Inc.	Sioux Falls, SD	jjchristensen@riseincorp.com whkoch@riseincorp.com	605-743-2510
Mechanical	Sichmeller Engineering, Inc.	Aberdeen, SD	travis@mseng.biz lukem@siceng.biz	605-225-4344
Electric	Sichmeller Engineering, Inc.	Aberdeen, SD	joshs@siceng.biz	402-740-3801
Food Service	Envision Kitchen	Sioux Falls, SD	danhauge@sio.midco.net	605-261-1916
	Printers			
Printer	Quality Quick Prints	Aberdeen, SD	dianem@myqqp.com	605-226-2541
Printer	CES Color	Sioux Falls, SD	print@cescolor.com	605-332-2550

	В	uilding Exchanges		
BX	Sioux Falls Builders Exchange	Sioux Falls, SD	info@sfbx.com	605-357-8687
BX	Plains Builders Exchange	Sioux Falls, SD	info@plainsbuilders.com	605-334-8886
BX	Aberdeen Builders Exchange	Aberdeen, SD	dakotabuild@midconetwork.com	605-225-4733
BX	Fargo-Moorhead	Fargo, ND	info@fmbx.org	701-237-6772
вх	Construction Industry Center	Rapid City, SD	chrissy@constructionindustrycenter.com	605-343-5252
BX	Minneapolis Builders Exchange	Minneapolis, MN	jb@mbex.org	612-381-2620
BX	Dodge Construction Network	Hamilton, NJ	rechie.manalop@construction.com	877-784-9556

	General Contractor			
General Contractor	Gray Construction	Watertown, SD	dustin@grayconstruct.com	605-886-3102
General Contractor	WS Construction Management	Sioux Falls, SD	john@wsconstructionmanagement.com	605-275-9726
General Contractor	Kyburz-Carlson	Aberdeen, SD	mkeller@kyburzcarlson.com	605-225-6161
General Contractor	Tellinghuisen Inc.	Willow Lake, SD	zanet@tellinghuisen.com	605-881-2075

Mechanical Contractors

Mechanical Contractor	Active Heating and Cooling	Watertown, SD	thadj@activeheatinginc.com	605-882-2663
Mechanical Contractor	Allied Climate Professionals	Groton, SD	trent@alliedclimatepros.com	605-353-5022
Mechanical Contractor	Barton Heating & A/C	Aberdeen, SD	ethan@bartonheating.com	605-229-5896

	Plumbing Contractors				
Plumbing Contractor	Plumbing Contractor Mitchell Plumbing & Heating Co. Mitchell, SD ryan.mphci@midconetwork.com 605-996-7583				
Plumbing Contractor	Overall Plumbing Systems		joshw@overallplumbingsystems.com	605-999-0758	

	El	ectrical Contractors		
Electrical Contractor	Efraimson Electric	Bryant, SD	estimator@efraimsonelectric.com	605-881-3562 605-868-2426
Electrical Contractor	Marquardt Electric	Watertown, SD	kylemarq@gmail.com npzaug@gmail.com	605-886-2107
Electrical Contractor	Sentry Crane and Services	Watertown, SD	masonc@sentryusa.com	605-233-0137

	Tempera	ture Controls Contra	ctors	
Temp Controls Contractor	Allied Climate Professionals	Groton, SD	trent@alliedclimatepros.com	605-353-5022

SECTION 097800 INTERIOR WALL PANELING

PART 1 GENERAL

1.01 SECTION INCLUDES

- Decorative plastic wall paneling.
- B. Laminated interior wall paneling.

1.02 REFERENCE STANDARDS

- A. ASTM C393/C393M Standard Test Method for Core Shear Properties of Sandwich Constructions by Beam Flexure 2020.
- B. ASTM D256 Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics 2010 (Reapproved 2018).
- C. ASTM D638 Standard Test Method for Tensile Properties of Plastics 2022.
- D. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials 2022.

1.03 SUBMITTALS

- A. See Section 013000 Administrative Requirements, for submittal procedures.
- B. Product Data: Submit manufacturer's descriptive literature for each specified product. Include anchorage devices specific to project substrate types.
- Shop Drawings: Submit elevations for each application and location. Indicate details of joints and attachments.
 - 1. Scale of Drawing Elevations: 1/4 inch to 1 foot, minimum.
 - 2. Scale of Drawing Details: 1-1/2 inches to 1 foot, minimum.
- D. Samples: Submit two samples 12 by 12 inches in size, indicating finish, surface design, and color for each type of panels.
- E. Manufacturer's Instructions: Provide manufacturer's installation instructions.
- F. Maintenance Data: Include recommended instructions, methods, and materials for cleaning panels.
- G. Warranty Documentation: Manufacturer warranty; ensure that forms have been completed in Owner's name and registered with manufacturer.
- H. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 016000 Product Requirements, for additional provisions.
 - 2. Extra Panels: Quantity equal to 5 percent of total installed.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with at least five years of documented experience.
- B. Installer Qualifications: Company specializing in installing work of the type specified in this section, and with at least three years of documented experience.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to project site in manufacturer's original packaging, marked with manufacturer's product identification.
- B. Store panels flat, indoors, on a clean, dry surface. Remove packaging and allow panels to acclimate to room temperature for 48 hours prior to installation.

1.06 WARRANTY

- A. See Section 017800 Closeout Submittals for additional warranty requirements.
- B. Extended Correction Period: Correct defective work within a 5-year period for failure of materials or workmanship commencing on the Date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Decorative Plastic Wall Paneling: Basis of Design: Polyclad Pro by Polyflor-Wall
 - 1. Substitutions: See Section 01 6000 Product Requirements.
- B. Laminated Interior Wall Paneling:
 - 1. Basis of Design: Panel System: #310 as manufactured by Panel Specialists Inc.
 - 2. Substitutions: See Section 01 6000 Product Requirements.

2.02 REGULATORY REQUIREMENTS

A. Surface Burning Classification: Provide wall paneling assemblies meeting Class A when tested in accordance with ASTM E84.

2.03 DECORATIVE PLASTIC WALL PANELING

- A. Decorative Plastic Wall Paneling: Digitally-printed pattern images with manufacturer's standard scratch-resistant, UV-resistant protective coating.
 - 1. Panel Thickness: .05 inch.
 - 2. Material: Polyvinyl chloride (PVC).
 - Flexural Strength: Greater than 2000 ft lbf/sq in, when tested in accordance with ASTM C393/C393M.
 - b. Tensile Strength: Greater than 1300 ft lbf/sq in, when tested in accordance with ASTM D638.
 - Impact Strength: Greater than 1.57 ft lbf/in, when tested in accordance with ASTM D256.
 - Edges: Square.

2.04 LAMINATED INTERIOR WALL PANELING

- A. Laminated Wall Panels:
 - 1. Applications: Wall cladding.
 - 2. Panel Size: As indicated on drawings.
 - 3. Thickness: 7/16 inch.
 - 4. Edges: Square.
- B. Materials:
 - 1. Substrate/Core: Industrial grade M2.
 - 2. Facing: High pressure laminate.
 - a. Color: As selected by Architect from manufacturer's standard line.
 - 3. Backer: Manufacturer's standard balanced backer sheet.
- C. Fabrication: Shop fabricate to greatest extent possible.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions and substrate flatness before starting work.
- B. Verify that substrate surfaces for adhered items are clean and smooth.
 - 1. Test painted or wall covering surfaces for adhesion in inconspicuous area, as recommended by manufacturer.
 - 2. Comply with adhesive manufacturer's recommendations for remedial measures at locations and application conditions where adhesion test results are unsatisfactory.
- C. Start of installation constitutes acceptance of project conditions.

3.02 INSTALLATION

- A. Install panels in accordance with manufacturer's instructions.
- B. Cut and drill holes in panels with carbide tipped saw blades, drill bits, or snips.
- C. Apply adhesive to back side of panel using trowel recommended by adhesive manufacturer.

- D. Apply panels to wall with vertical joints plumb and horizontal joints level and pattern aligned with adjoining panels.
- E. Using a roller, apply pressure to panel face to ensure proper adhesion between surfaces.
- F. Install panels with manufacturer's recommended gaps for panel field and corner joints.
- G. Install trim with adhesive.
- H. Seal joints at wall base and between panels with approved sealant to prevent moisture intrusion.
- Remove excess sealant after paneling is installed and prior to curing.

3.03 ADJUSTING

A. Replace paneling installed out of plumb and/or not aligned with adjacent panels or construction.

3.04 CLEANING

A. Clean panel faces using cleaning agents and methods recommended by manufacturer to remove soiling.

3.05 PROTECTION

A. Protect installed interior wall paneling from subsequent construction operations.

END OF SECTION

SECTION 102800 TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

- Commercial toilet accessories.
- B. Accessories for toilet rooms, showers, and utility rooms.
- C. Utility room accessories.
- D. Grab bars.

1.02 RELATED REQUIREMENTS

A. Section 102113.19 - Plastic Toilet Compartments.

1.03 REFERENCE STANDARDS

- A. 36 CFR 1191 Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Architectural Barriers Act (ABA) Accessibility Guidelines; current edition.
- B. ADA Standards 2010 ADA Standards for Accessible Design 2010.
- C. ASTM A269/A269M Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service 2022.
- D. ASTM A666 Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar 2015.
- E. ASTM B456 Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium 2017 (Reapproved 2022).
- F. ASTM C1036 Standard Specification for Flat Glass 2021.
- G. ASTM C1503 Standard Specification for Silvered Flat Glass Mirror 2018.

1.04 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Commercial Toilet, Shower, and Bath Accessories: Basis of Design Bobrick Washroom Equipment, Inc.
 - 1. AJW Architectural Products: www.ajw.com.
 - 2. ASI American Specialties, Inc: www.americanspecialties.com.
 - 3. Bradley Corporation: www.bradleycorp.com.
 - 4. Substitutions: Section 016000 Product Requirements.

2.02 MATERIALS

- A. Accessories General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.
- B. Keys: Provide 2 keys for each accessory to Owner; master key lockable accessories.
- C. Stainless Steel Sheet: ASTM A666, Type 304.
- D. Stainless Steel Tubing: ASTM A269/A269M, Grade TP304 or TP316.
- E. Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.
- F. Adhesive: Two component epoxy type, waterproof.
- G. Fasteners, Screws, and Bolts: Hot dip galvanized; tamper-proof; security type.

2.03 FINISHES

A. Stainless Steel: Satin finish, unless otherwise noted.

- B. Chrome/Nickel Plating: ASTM B456, SC 2, polished finish, unless otherwise noted.
- C. Baked Enamel: Pretreat to clean condition, apply one coat primer and minimum two coats epoxy baked enamel.
- D. Shop Primed Ferrous Metals: Pretreat and clean, spray apply one coat primer and bake.

2.04 COMMERCIAL TOILET ACCESSORIES

- A. Paper Towel Dispenser: Folded paper type, stainless steel, surface-mounted, with viewing slots on sides as refill indicator and tumbler lock.
 - 1. Capacity: 400 C-fold minimum.
 - 2. Products:
 - a. Bobrick B-262.
- B. Soap Dispenser: Liquid soap dispenser, wall-mounted, surface, with stainless steel cover and horizontal stainless steel tank and working parts; push type soap valve, check valve, and window gauge refill indicator, tumbler lock.
 - 1. Minimum Capacity: 40 ounces.
 - 2. Products:
 - a. Bobrick B-2111.
- C. Mirrors: 1/4 inch thick annealed float glass; ASTM C1036.
 - Backing: Full-mirror sized, minimum 0.03 inch galvanized steel sheet and nonabsorptive filler material.
 - Products:
 - a. Bobrick B-165.
 - b. Substitutions: Section 016000 Product Requirements.
- D. Grab Bars: Stainless steel, smooth surface.
 - 1. Standard Duty Grab Bars:
 - a. Push/Pull Point Load: 250 pound-force, minimum.
 - b. Dimensions: 1-1/4 inch outside diameter, minimum 0.05 inch wall thickness, exposed flange mounting, 1-1/2 inch clearance between wall and inside of grab bar.
 - c. Finish: Satin.
 - d. Length and Configuration: As indicated on drawings.
- E. Sanitary Napkin Disposal Unit: Stainless steel, surface-mounted, self-closing door, locking bottom panel with full-length stainless steel piano-type hinge, removable receptacle.
 - 1. Products:
 - a. Bobrick B-254.
 - b. Substitutions: Section 016000 Product Requirements.

2.05 COMMERCIAL SHOWER AND BATH ACCESSORIES

- A. Shower Curtain Rod: Stainless steel tube, 1 inch outside diameter, 0.04 inch wall thickness, satin-finished, with 3 inch outside diameter, minimum 0.04 inch thick satinfinished stainless steel flanges, for installation with exposed fasteners.
- B. Shower Curtain:
 - 1. Material: Opaque vinyl, 0.008 inch thick, matte finish, with antibacterial treatment, flameproof and stain-resistant.
 - 2. Grommets: Stainless steel; pierced through top hem on 6 inch centers.
 - 3. Color: White.
 - 4. Shower Curtain Hooks: Chrome-plated or stainless steel spring wire designed for snap closure.
- C. Folding Shower Seat: Wall-mounted surface; welded tubular seat frame, structural support members, hinges, and mechanical fasteners of Type 304 stainless steel, L-shaped, right hand seat.
 - 1. Seat: Phenolic or polymeric composite one-piece seat or seat slats, of color as selected.
 - 2. Size: ADA Standards compliant.

3. Products:

- a. Seachrome Corporation; Accessibility Seats- L-Shaped Transfer with Swing-down Legs, Reversible: www.seachrome.com/#sle.
- b. Substitutions: Section 016000 Product Requirements.
- D. Robe Hook: Heavy-duty stainless steel, single-prong, rectangular-shaped bracket and backplate for concealed attachment, satin finish.
 - 1. Products:
 - a. Bobrick B-7671.
 - b. Substitutions: Section 016000 Product Requirements.

2.06 UTILITY ROOM ACCESSORIES

- A. Mop and Broom Holder: 0.05 inch thick stainless steel, Type 304, hat-shaped channel.
 - 1. Holders: Three spring-loaded rubber cam holders.
 - 2. Length: 36 inches.
- B. Combination Utility Shelf/Mop and Broom Holder: 0.05 inch thick stainless steel, Type 304, with 1/2 inch returned edges, 0.06 inch steel wall brackets.
 - 1. Mop/broom holders: Three spring-loaded rubber cam holders at shelf front.
 - 2. Length: 36 inches.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Verify exact location of accessories for installation.
- C. Verify that field measurements are as indicated on drawings.

3.02 PREPARATION

- A. Deliver inserts and rough-in frames to site for timely installation.
- B. Provide templates and rough-in measurements as required.

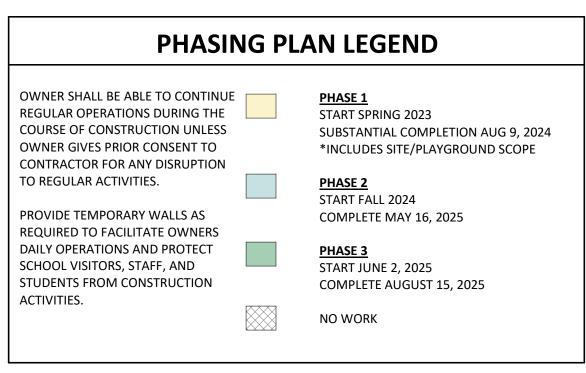
3.03 INSTALLATION

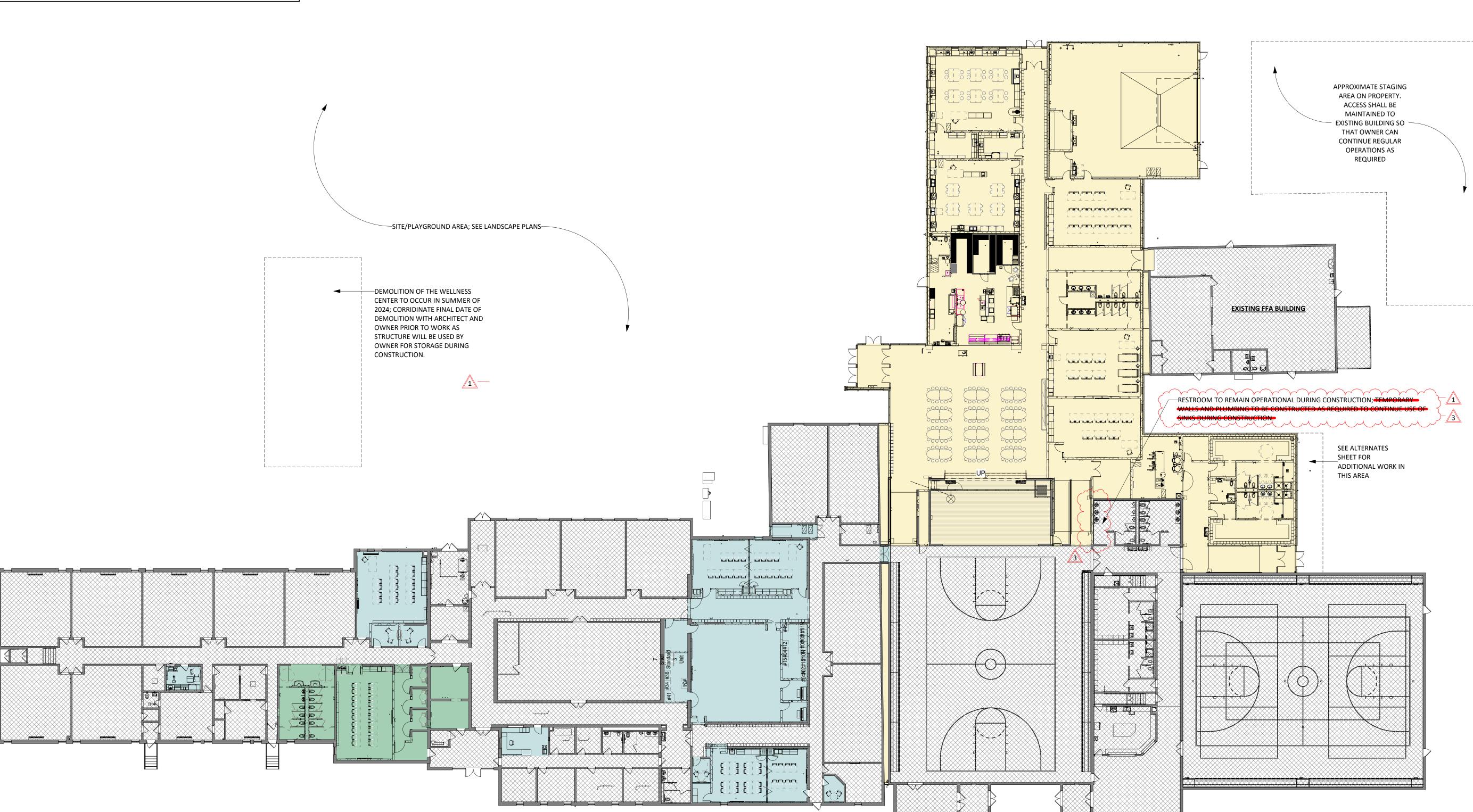
- A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.
- B. Install plumb and level, securely and rigidly anchored to substrate.
- C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.
 - 1. Grab Bars: As indicated on drawings.

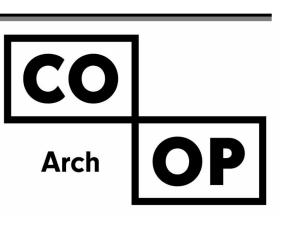
3.04 PROTECTION

A. Protect installed accessories from damage due to subsequent construction operations.

END OF SECTION





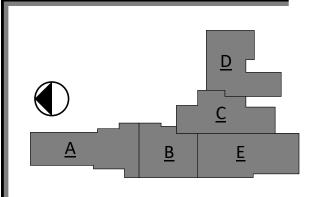


1108 S. Main St. 102 Aberdeen, SD 57401 Phone: 605-725-4852

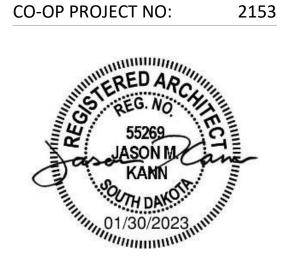
601 Kansas City St. 7 Rapid City, SD 57701 Phone: 605-716-3652

440 E. 8th St. 221 Sioux Falls, SD 57103 Phone: 605-334-9999

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CO-OP PROJECT NO:



ISSUE:

01/30/2023 CONSTRUCTION DOCUMENTS

REVISION SCHEDULE:

ADD 01 02/10/23 ADD 03 02/23/23

PROJECT:

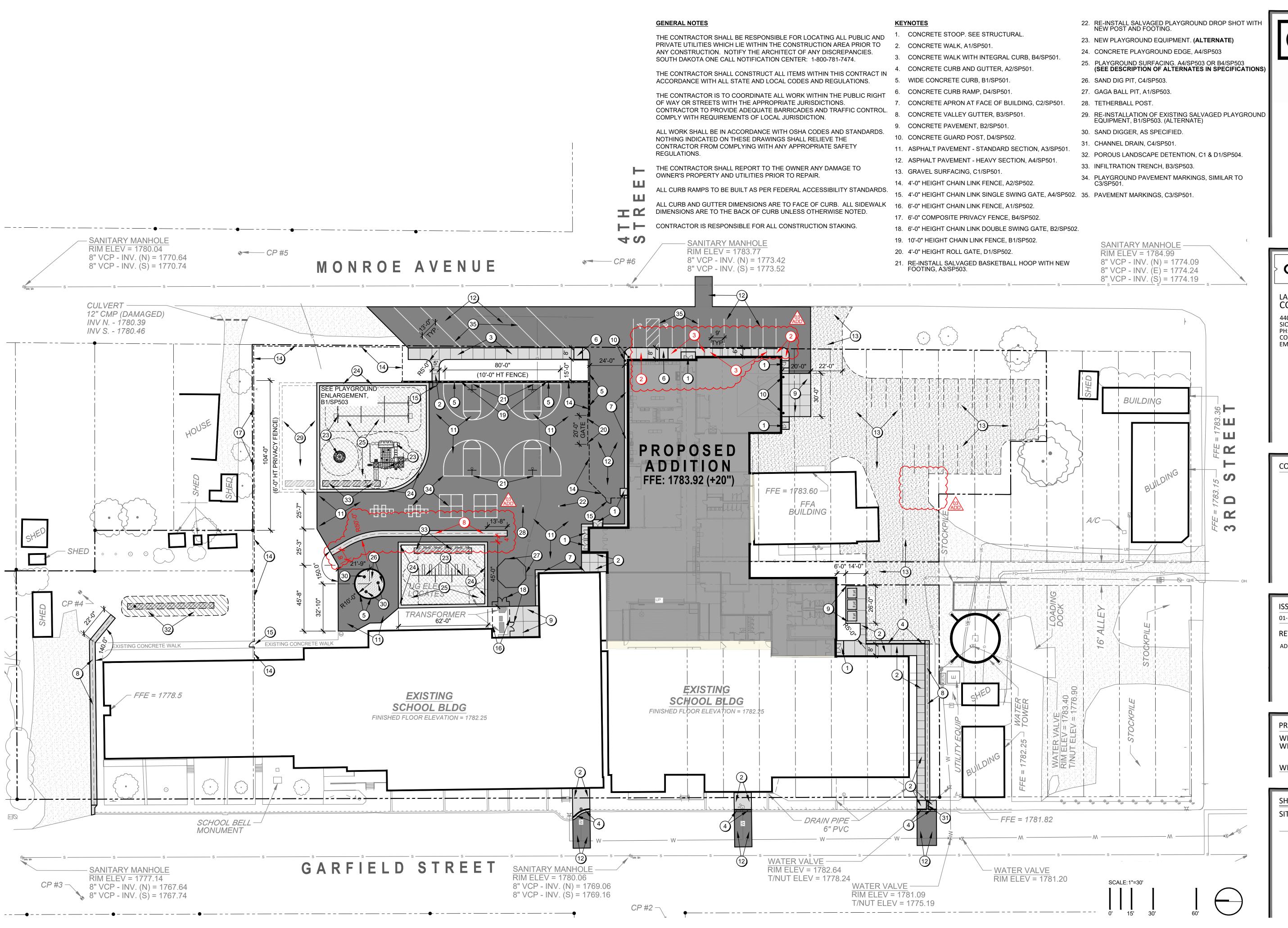
WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

PHASING PLAN

G004



Arch

1108 S. Main St. 102 Aberdeen, SD 57401 Phone: 605-725-4852

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CONFLUENCE

LANDSCAPE ARCHITECT CONFLUENCE

440 E 8TH STREET, SUITE 121 SIOUX FALLS, SD 57103 PH: 605.339.1205 FAX: 605.339.1215 CONTACT: LYLE PUDWILL, ASLA EMAIL: lpudwill@thinkconfluence.com

CO-OP PROJECT NO:



ISSUE:

01-30-2023 CONSTRUCTION DOCUMENTS

REVISION SCHEDULE:

ADD 03 ADDENDUM 03 02/23/2023

PROJECT:

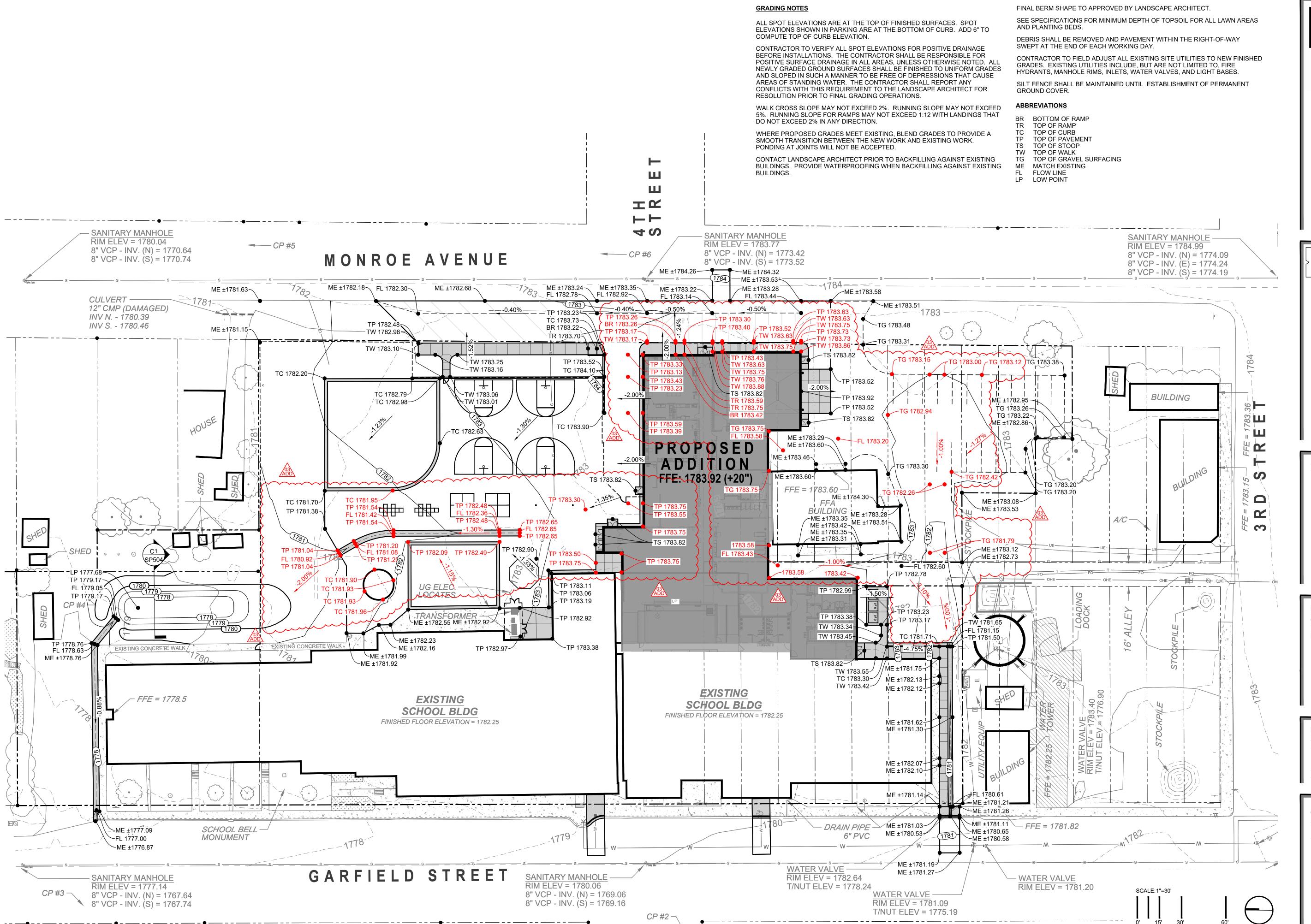
WILLOW LAKE SCHOOL ADDITION WILLOW LAKE SCHOOL DISTRICT

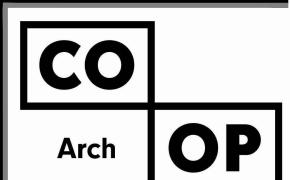
WILLOW LAKE, SD

SHEET TITLE:

SITE LAYOUT PLAN

SP201





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CONFLUENCE

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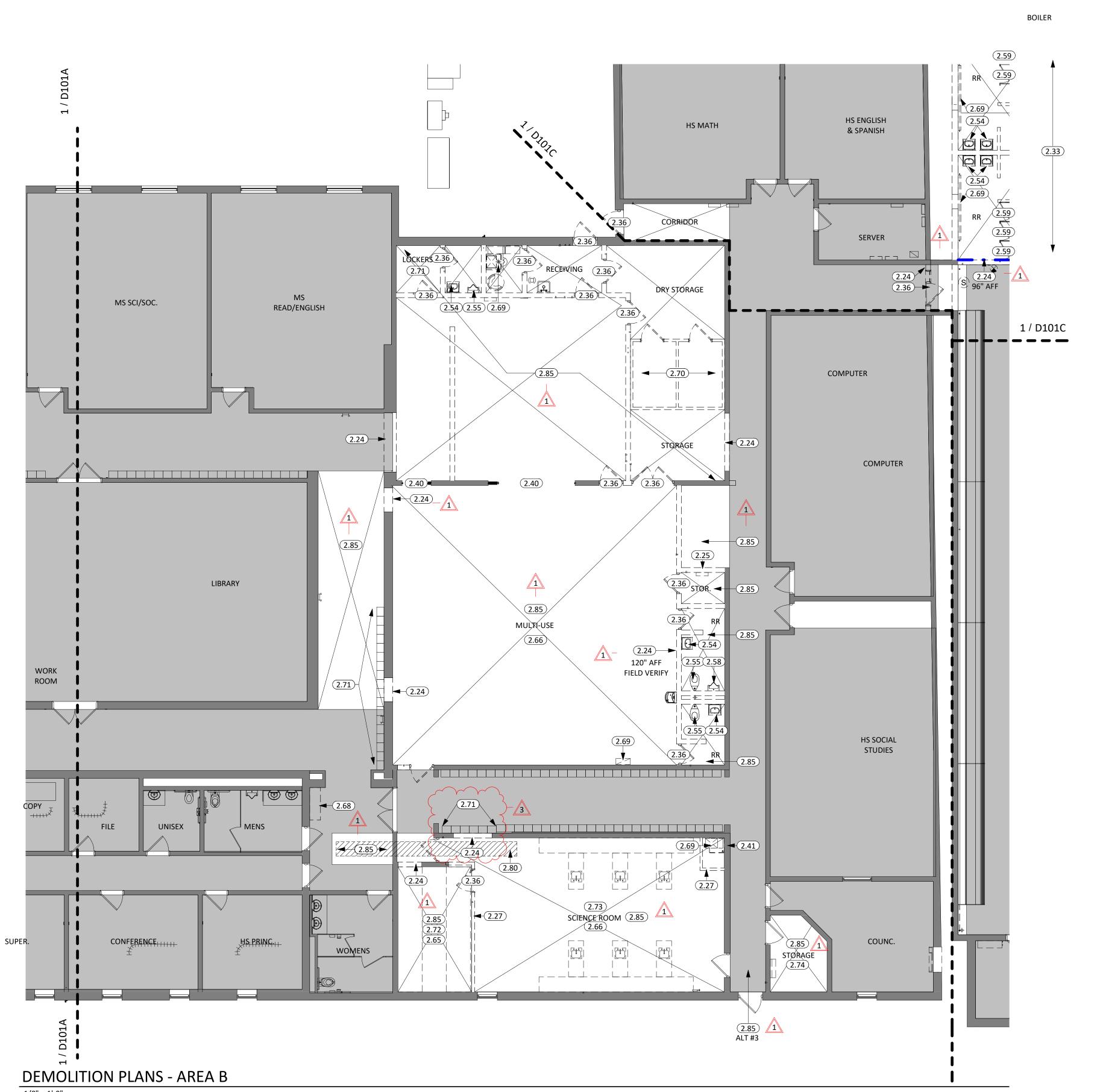
WILLOW LAKE SCHOOL ADDITION WILLOW LAKE SCHOOL DISTRICT

WILLOW LAKE, SD

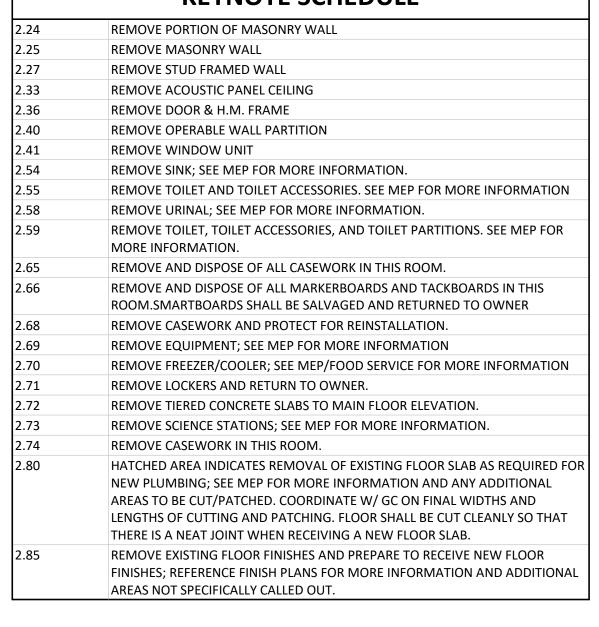
SHEET TITLE:

SITE GRADING PLAN

SP301



KEYNOTE SCHEDULE REMOVE PORTION OF MASONRY WALL REMOVE MASONRY WALL REMOVE STUD FRAMED WALL 2.33 REMOVE ACOUSTIC PANEL CEILING REMOVE DOOR & H.M. FRAME REMOVE OPERABLE WALL PARTITION **REMOVE WINDOW UNIT** REMOVE SINK; SEE MEP FOR MORE INFORMATION. REMOVE TOILET AND TOILET ACCESSORIES. SEE MEP FOR MORE INFORMATION REMOVE URINAL; SEE MEP FOR MORE INFORMATION. REMOVE TOILET, TOILET ACCESSORIES, AND TOILET PARTITIONS. SEE MEP FOR MORE INFORMATION. REMOVE AND DISPOSE OF ALL CASEWORK IN THIS ROOM. REMOVE AND DISPOSE OF ALL MARKERBOARDS AND TACKBOARDS IN THIS ROOM.SMARTBOARDS SHALL BE SALVAGED AND RETURNED TO OWNER REMOVE CASEWORK AND PROTECT FOR REINSTALLATION. 2.69 REMOVE EQUIPMENT; SEE MEP FOR MORE INFORMATION REMOVE FREEZER/COOLER; SEE MEP/FOOD SERVICE FOR MORE INFORMATION 2.71 REMOVE LOCKERS AND RETURN TO OWNER. REMOVE TIERED CONCRETE SLABS TO MAIN FLOOR ELEVATION. 2.73 REMOVE SCIENCE STATIONS; SEE MEP FOR MORE INFORMATION. REMOVE CASEWORK IN THIS ROOM. NEW PLUMBING; SEE MEP FOR MORE INFORMATION AND ANY ADDITIONAL AREAS TO BE CUT/PATCHED. COORDINATE W/ GC ON FINAL WIDTHS AND LENGTHS OF CUTTING AND PATCHING. FLOOR SHALL BE CUT CLEANLY SO THAT THERE IS A NEAT JOINT WHEN RECEIVING A NEW FLOOR SLAB. REMOVE EXISTING FLOOR FINISHES AND PREPARE TO RECEIVE NEW FLOOR





EXISTING TO REMAIN MASONRY UNLESS NOTED OTHERWISE ON THE PLANS)

- EXISTING WALLS/OBJECTS TO BE REMOVED (WALLS ARE

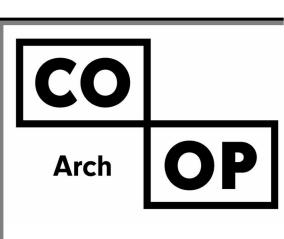
- COMPLETELY REMOVE ALL EXISTING CEILINGS U.N.O. (EITHER LAY-IN, PLASTER, OR GYPBOARD INCLUDING ALL CURTAIN, CEILING MOUNTED EQUIPMENT, SUPPORTS, TRACKS, ETC.)

ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION.

REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH WORK REQUIRED IN OTHER AREAS THAT ARE NOT DOCUMENTED TO RECEIVE DEMOLITION/REMOVAL WORK INDICATED ON THE DEMOLITION PLANS.

GENERAL NOTES - DEMOLITION

- THE OWNER'S NORMAL OPERATIONS WILL BE CONTINUED DURING DEMOLITION. DEMOLITION CONTRACTOR SHALL NOT INTERFERE WITH THESE OPERATIONS IN ANY WAY WITHOUT THE OWNER'S EXPRESSED CONSENT.
- PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO SELECTIVE DEMOLITION WORK.
- PROVIDE 1HR FIRE RESISTANT CONSTRUCTION BARRIERS WHERE REQ'D TO PROTECT EXISTING CONSTRUCTION AND OWNERS OPERATIONS.
- PRIOR TO CUTTING EXISTING CONSTRUCTION, LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL FLOOR PENETRATIONS. UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC. AND ANY WALLS THAT CONTAIN LIFE SAFETY VERTICAL RISERS THAT MUST REMAIN IN OPERATION DURING THE DEMOLITION WORK.
- PROVIDE SHORING, BRACING AND ANY OTHER MEANS REQ'D TO PROTECT AND MAINTAIN THE SAFETY, INTEGRITY AND STABILITY OF ALL EXISTING AND NEW CONSTRUCTION.
- WHEN ROOFING, GLAZING, FLASHING, COPING OR POERTIONS OF EXTIOER WALLS ARE REMOVED OR OPENED, SUITABLE WEATHER PROTECTION SHALL BE PROVIDED AND MAINTANED FOR THE DURATION OF WORK.
- WHEREVER WATER CLOSETS, FLOOR SINKS OR OTHER EQUIPMENT AND RELATED PIPING ARE TO BE REMOVED, PATCH FLOOR SLAB W/ CONCRETE AS REQUIRED.
- ALL CONCRETE FLOOR SLABS NOTED TO BE REMOVED SHALL BE SAWCUT TO PROVIDE A NEAT SEE MECHANICAL, LANDSCAPE, AND ELECTRICAL DEMOLITION DRAWINGS FOR ADDITIONAL
- SCOPE OF DEMOLITION WORK. 10. SALVAGE ALL EXISTING REMOVED BRICK FOR PATCHING AND REFINISH WORK AS REQ'D. 11. ALL DEMOLITION SHALL COMPLY WITH APPLICABLE LOCAL CODES AND STATE CODES AND
- 12. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

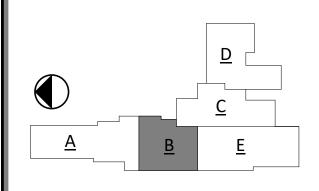


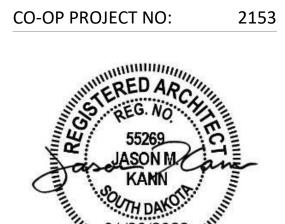
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REVISION SCHEDULE: REV. DSC. REV. DATE ADD 01 02/10/23 ADD 03 02/23/23

PROJECT:

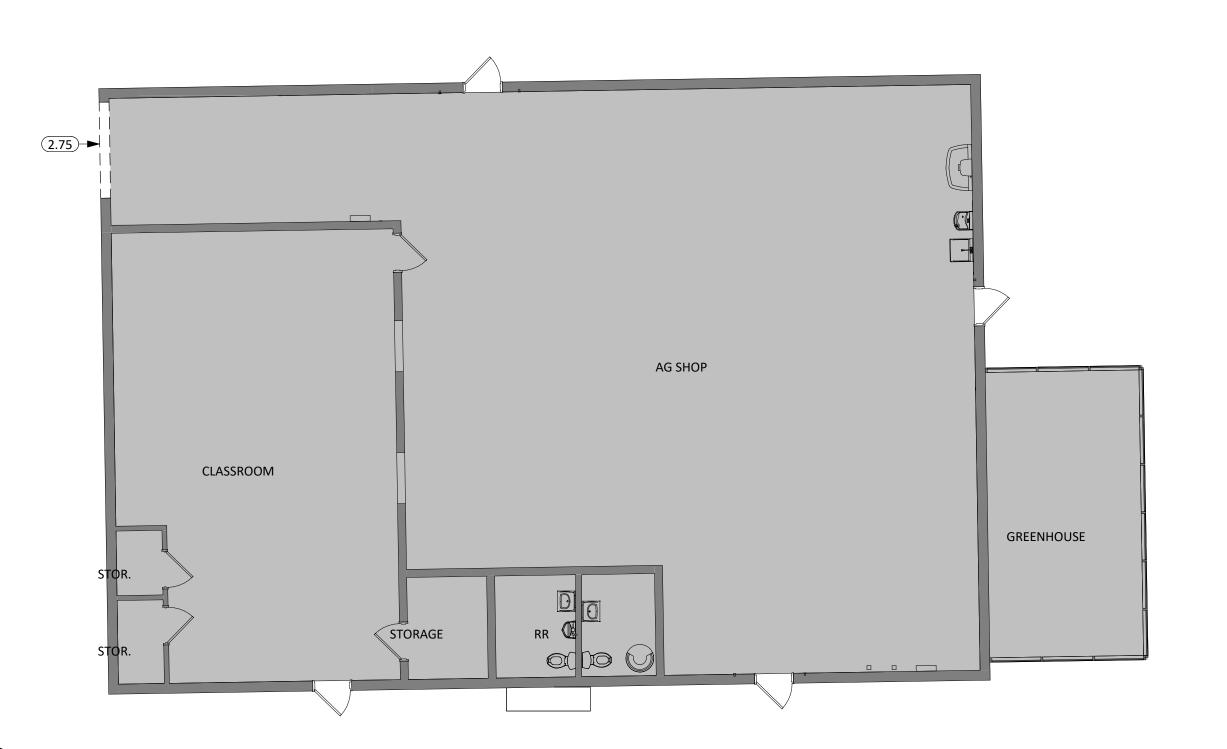
WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

DEMOLITION PLAN - AREA B

D101B



COMPUTER

DEMOLITION PLANS - EXISTING AG SHOP

DEMOLITION PLANS - AREA C

DEMOLITION LEGEND - EXISTING TO REMAIN

- EXISTING WALLS/OBJECTS TO BE REMOVED (WALLS ARE MASONRY UNLESS NOTED OTHERWISE ON THE PLANS)

- COMPLETELY REMOVE ALL EXISTING CEILINGS U.N.O. (EITHER LAY-IN, PLASTER, OR GYPBOARD INCLUDING ALL CURTAIN, CEILING MOUNTED EQUIPMENT, SUPPORTS, TRACKS, ETC.)

ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION.

REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH WORK REQUIRED IN OTHER AREAS THAT ARE NOT DOCUMENTED TO RECEIVE DEMOLITION/REMOVAL WORK INDICATED ON THE DEMOLITION PLANS.

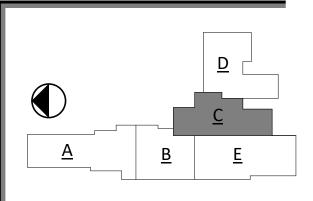
	KEYNOTE SCHEDULE
2.24	REMOVE PORTION OF MASONRY WALL
2.33	REMOVE ACOUSTIC PANEL CEILING
2.36	REMOVE DOOR & H.M. FRAME
2.41	REMOVE WINDOW UNIT
2.52	REMOVE TOILET PARTITION
2.54	REMOVE SINK; SEE MEP FOR MORE INFORMATION.
2.57	REMOVE DRINKING FOUNTAIN; SEE MEP FOR MORE INFORMATION.
2.58	REMOVE URINAL; SEE MEP FOR MORE INFORMATION.
2.59	REMOVE TOILET, TOILET ACCESSORIES, AND TOILET PARTITIONS. SEE MEP FOR MORE INFORMATION.
2.69	REMOVE EQUIPMENT; SEE MEP FOR MORE INFORMATION
2.70	REMOVE FREEZER/COOLER; SEE MEP/FOOD SERVICE FOR MORE INFORMATION
2.75	REMOVE PORTION OF METAL FRAMED WALL.
2.76	REMOVE STAIRS
2.77	REMOVE PORTION OF STAGE AND STAGE FRAMING
2.78	REMOVE SHOWER AND SHOWER ACCESSORIES. SEE MEP FOR MORE INFORMATION
2.79	REMOVE CURTAIN AND CURTAIN ROD
2.80	HATCHED AREA INDICATES REMOVAL OF EXISTING FLOOR SLAB AS REQUIRED FOR NEW PLUMBING; SEE MEP FOR MORE INFORMATION AND ANY ADDITIONAL AREAS TO BE CUT/PATCHED. COORDINATE W/ GC ON FINAL WIDTHS AND LENGTHS OF CUTTING AND PATCHING. FLOOR SHALL BE CUT CLEANLY SO THAT THERE IS A NEAT JOINT WHEN RECEIVING A NEW FLOOR SLAB.
2.81	REMOVE PORTION OF WALL TO STAGE FLOOR BELOW. MAINTAIN SEPARATION BETWEEN EXISTING BELOW STAGE STORAGE AREA AND NEW BELOW STAGE AREA.
2.83	REMOVE PORTION OF WALL AS REQUIRED FOR INSTALLATION OF NEW COLUMN
2.85	REMOVE EXISTING FLOOR FINISHES AND PREPARE TO RECEIVE NEW FLOOR FINISHES; REFERENCE FINISH PLANS FOR MORE INFORMATION AND ADDITIONAL AREAS NOT SPECIFICALLY CALLED OUT.
2.86	REMOVE AND DISPOSE OF GYM CURTAIN
2.87	EXISTING METAL STUD WALL AND PLUMBING TO REMAIN IN PLACE DURING DEMOLITION AND CONSTRUCTION. FIELD VERIFY EXISTING CONDITIONS PRIOR TO REMOVING ADJACENT METAL WALL.
2.88	REMOVE METAL WALL

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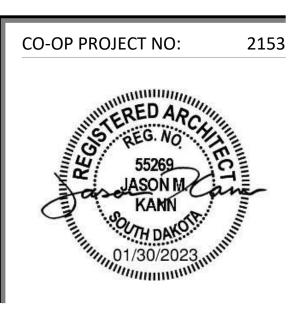
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- THE OWNER'S NORMAL OPERATIONS WILL BE CONTINUED DURING DEMOLITION. DEMOLITION CONTRACTOR SHALL NOT INTERFERE WITH THESE OPERATIONS IN ANY WAY WITHOUT THE
- PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC FROM INJURY DUE TO SELECTIVE DEMOLITION WORK.
- PRIOR TO CUTTING EXISTING CONSTRUCTION, LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL FLOOR PENETRATIONS. UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC. AND ANY WALLS THAT CONTAIN LIFE SAFETY VERTICAL RISERS THAT MUST

- ALL CONCRETE FLOOR SLABS NOTED TO BE REMOVED SHALL BE SAWCUT TO PROVIDE A NEAT
- SCOPE OF DEMOLITION WORK.



ISSUE:

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REVISION SCHEDULE:

REV. DSC.	REV. DAT
ADD 01	02/10/23
ADD 03	02/23/23

PROJECT:

WILLOW LAKE SCHOOL ADDITION

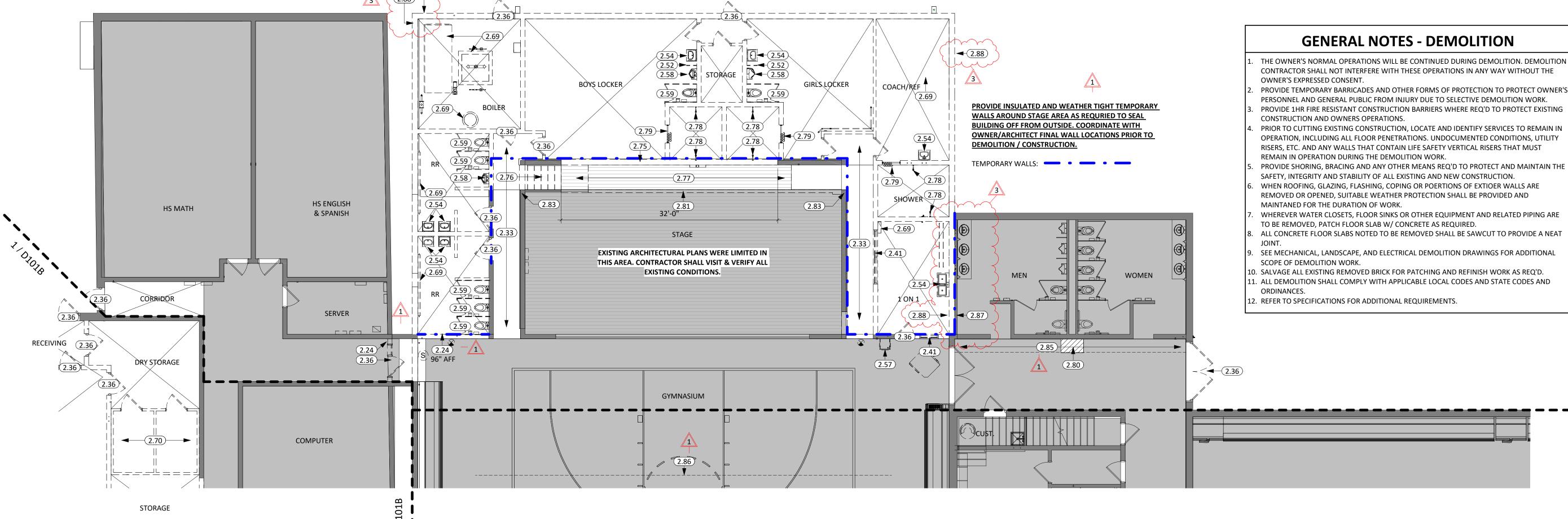
WILLOW LAKE SCHOOL DISTRICT

WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

DEMOLITION PLAN - AREA C

D101C

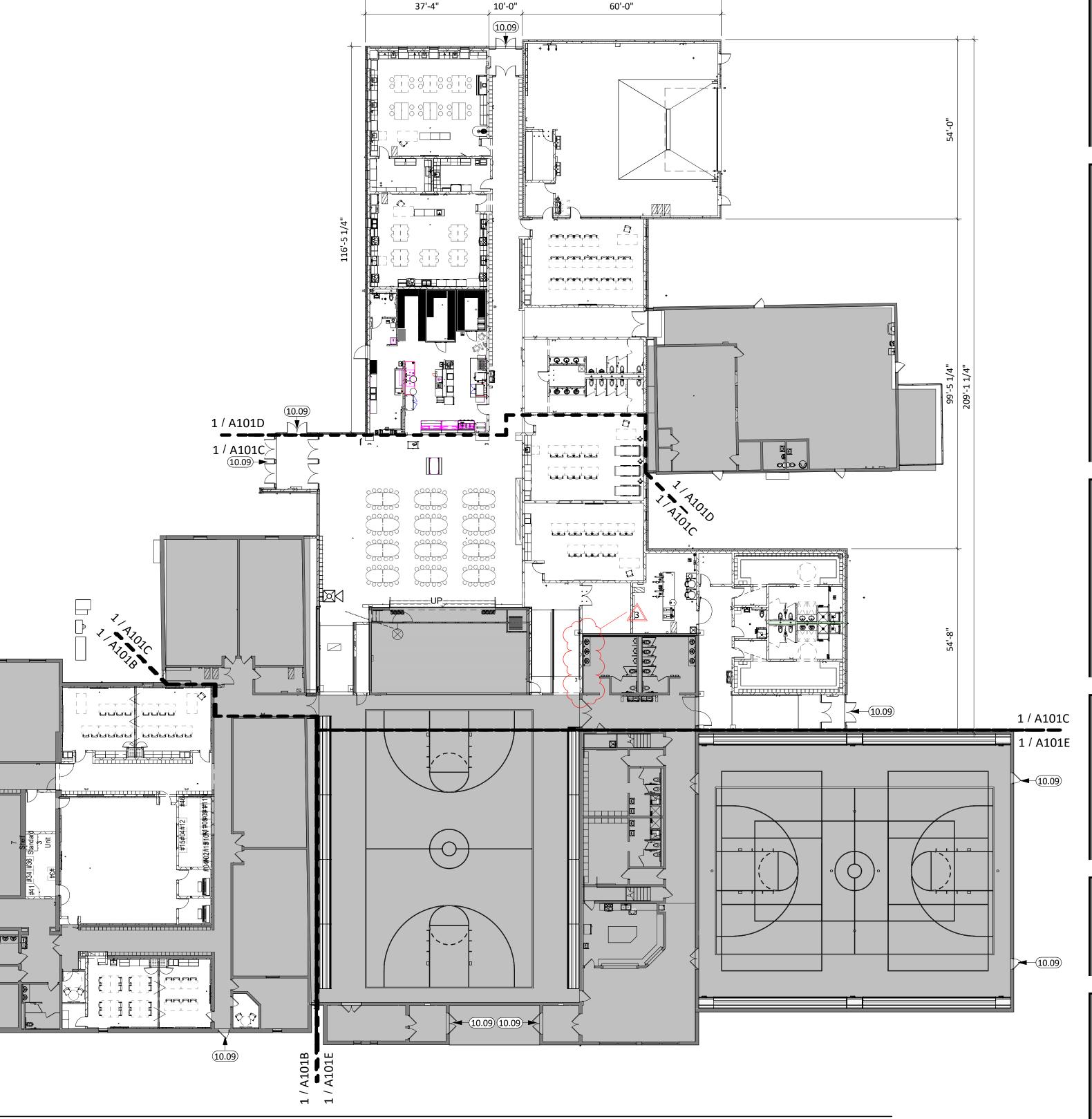


GENERAL NOTES

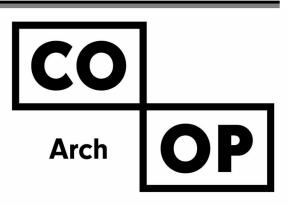
- 1. FIRE RATED WALL ARE INDICATED ON THE CODE PLANS.
- 2. PROVIDE FIRE EXTINGUISHERS AND CABINETS AS SHOWN ON THE CODE PLAN(S).
- 3. REFER TO SHEET <u>G000</u> FOR ADA STANDARDS.
- 4. REFER TO SHEET <u>6003</u> FOR WALL, ROOF, AND FLOOR TYPES.
- 5. INTERIOR DIMENSIONS ARE FROM FACE OF GWB/CMU TO FACE OF GWB/CMU UNLESS OTHERWISE NOTED.
- 6. ALL WALL TYPES TO EXTEND TO DECK UNLESS OTHERWISE NOTED ON WALL TYPES.
- 7. EXTERIOR DIMENSIONS ARE FROM FACE OF BRICK/SHEATHING UNLESS OTHERWISE NOTED.
- 8. COORDINATE WORK DONE BY OTHERS AS INDICATED ON THE DRAWINGS.
- 9. INCREASE WALL THICKNESS OF METAL STUD AND CONCRETE BLOCK WALLS AS REQUIRED TO ACCOMODATE MECHANICAL AND ELECTRICAL DEVICES VERIFY w/ ARCHITECT PRIOR TO WORK.
- 10. SEE MECHANICAL FOR ALL FLOOR DRAIN SIZES AND LOCATIONS U.N.O. SET FLOOR DRAINS MINIMUM ¾"
 BELOW FINISHED FLOOR. PROVIDE EVEN SLOPE FROM WALL TO DRAIN W/ A MAXIMUM SLOPE OF ¼" PER
 FOOT.
- 11. VERIFY DRYWALL CONTROL JOINT LOCATIONS w/ ARCHITECT ON SITE PRIOR TO INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTROL JOINTS AT 30'-0" O.C. MAX. IN LONG WALL EXPANSES. CONTROL JOINTS AT DOOR JAMBS EXTENDING FROM DOOR HEAD TO CEILING. CONSIDERATION SHALL ALSO BE GIVEN TO LOCATING CONTROL JOINTS FROM FLOOR TO CEILING AT EITHER EDGE OF LARGE WINDOW OPENINGS.
- 12. VERIFY HOISTWAY SHAFT SIZE REQUIREMENTS w/ ELEVATOR MANUFACTURER & COORDINATE.
- 13. COORDINATE ALL CHASE SIZES AND LOCATIONS W/ MECHANICAL. PROVIDE CHASES AT ALL EXPOSED
- MECHANICAL & ELECTRICAL WITH ADJACENT WALL MATERIAL AS REQUIRED.
- 14. COORDINATE ALL SHEAR WALL LOCATIONS W/ STRUCTURAL PLANS.
- 15. THE AIR & MOISTURE WEATHER BARRIER IS TO BE CONTINUOUS FROM THE BASE OF THE WALLS UP TO & TYING INTO THE ROOF BARRIER SYSTEM.
- 16. WALL TYPES ARE '4C' TYPICALLY UNLESS NOTED OTHERWISE
- 17. NEW CMU IN EXISTING AREAS SHALL ALIGN WITH EXISTING BONDING PATTERNS (STACKED OR RUNNING)

KEYNOTE SCHEDULE

PROVIDE APPROXIMATELY 8"X8" ARIAL FONT WINDOW FILM FOR ENTRANCE IDENTIFICATION. ALLOW FOR 1 LETTER AT EACH LOCATION INDICATED. COORDINATE WITH ARCHITECT ON LETTERING. FINISH TO BE WHITE.



107'-4"

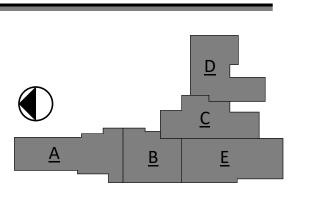


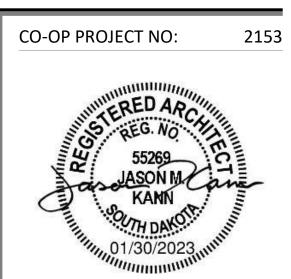
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REV. DSC. ADD 03

02/23/23

PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

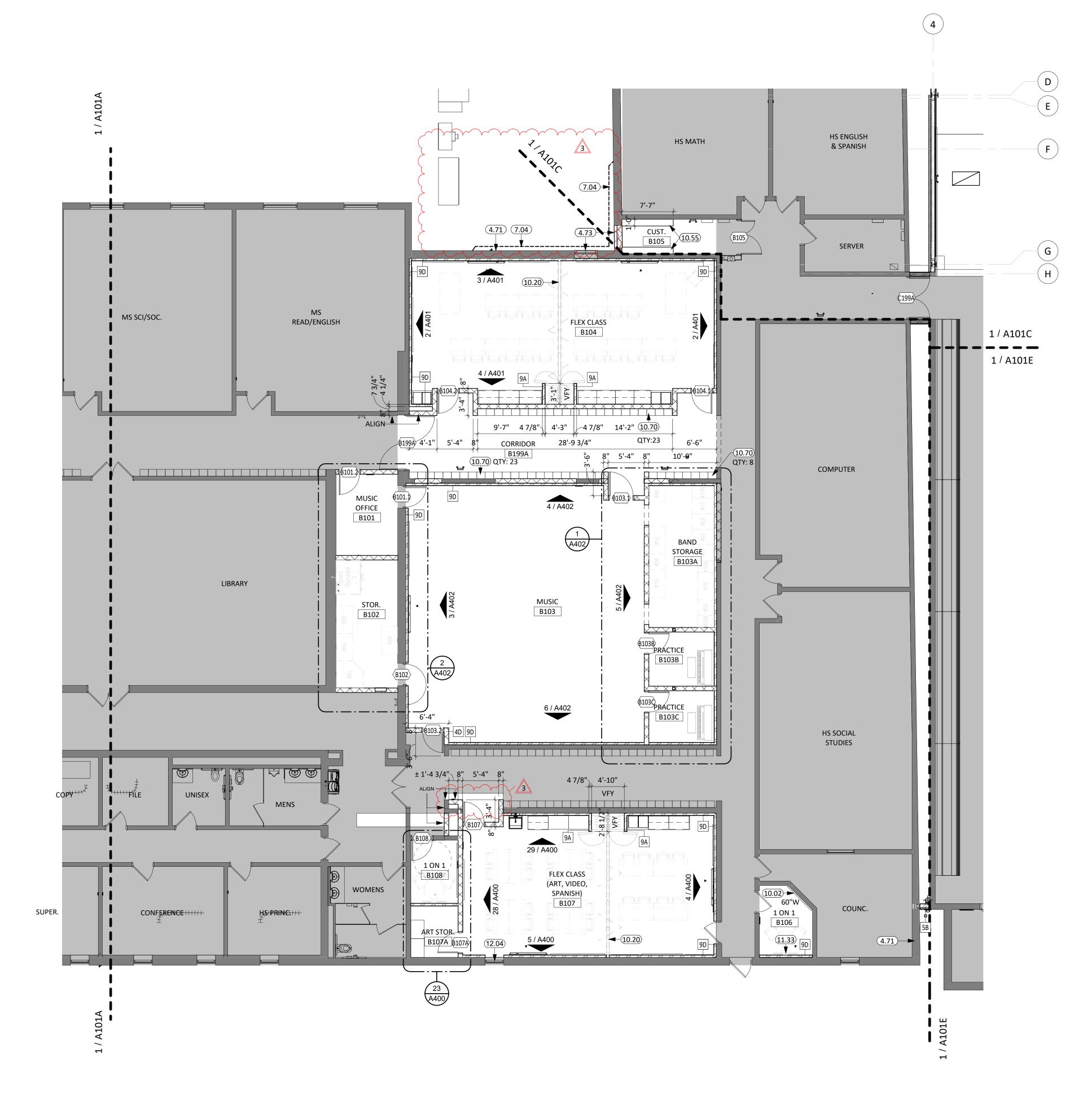
OVERALL FIRST FLOOR PLAN

A100

FIRST FLOOR PLAN - OVERALL

1" = 20'-0"

10.09



INFILL LOUVER OPENING W/ BRICK, INSULATION, AND CMU TO MATCH EXISTING WALL CONSTRUCTION/FINISH; SEE MECHANICAL PLANS FOR DEMOLISHED LOUVER LOCATIONS. INFILL EXISTING DOOR OPENING W/ BRICK, INSULATION, AND CMU TO MATCH EXISTING WALL CONSTRUCTION/FINISH. DASHED LINES INDICATE LOCATIONS OF FLUID APPLIED WATERPROOFING ON EXISTING BRICK EXTERIOR AT NEW GRADE/PAVEMENT LOCATIONS. COORDINATE PRECISE EXTENTS WITH LANDSCAPE DRAWINGS. TERMINATE WATERPROOFING AT NEW PAVEMENT/GRADE ELEVATION SUCH THAT IT IS

MARKERBOARD, B.O.D.-CLARIDGE SERIES 1 WALLBOARD W/ 1" CORK/MAP RAIL 10.20 OPERABLE PANEL PARTITIONS

TV MONITOR (OWNER PROVIDED CONTRACTOR INSTALLED) MANUAL ROLLER WINDOW SHADES

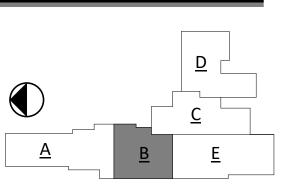
KEYNOTE SCHEDULE WALL MOUNTED STANDARDS AND BRACKETS 15"W x 12"D x 6'H SINGLE TIER METAL LOCKERS W/ 4" METAL BASE

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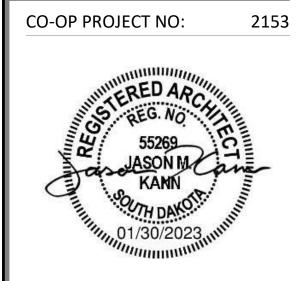
GENERAL NOTES

- FIRE RATED WALL ARE INDICATED ON THE CODE PLANS. PROVIDE FIRE EXTINGUISHERS AND CABINETS AS SHOWN ON THE CODE PLAN(S).
- REFER TO SHEET <u>G000</u> FOR ADA STANDARDS.
- REFER TO SHEET <u>G003</u> FOR WALL, ROOF, AND FLOOR TYPES.

10.55

10.70

- INTERIOR DIMENSIONS ARE FROM FACE OF GWB/CMU TO FACE OF GWB/CMU UNLESS OTHERWISE NOTED.
- ALL WALL TYPES TO EXTEND TO DECK UNLESS OTHERWISE NOTED ON WALL TYPES.
- EXTERIOR DIMENSIONS ARE FROM FACE OF BRICK/SHEATHING UNLESS OTHERWISE NOTED.
- COORDINATE WORK DONE BY OTHERS AS INDICATED ON THE DRAWINGS. INCREASE WALL THICKNESS OF METAL STUD AND CONCRETE BLOCK WALLS AS REQUIRED TO ACCOMODATE
- MECHANICAL AND ELECTRICAL DEVICES VERIFY w/ ARCHITECT PRIOR TO WORK. 10. SEE MECHANICAL FOR ALL FLOOR DRAIN SIZES AND LOCATIONS U.N.O. SET FLOOR DRAINS MINIMUM ¾" BELOW FINISHED FLOOR. PROVIDE EVEN SLOPE FROM WALL TO DRAIN W/ A MAXIMUM SLOPE OF 1/2" PER
- 1. VERIFY DRYWALL CONTROL JOINT LOCATIONS w/ ARCHITECT ON SITE PRIOR TO INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTROL JOINTS AT 30'-0" O.C. MAX. IN LONG WALL EXPANSES. CONTROL JOINTS AT DOOR JAMBS EXTENDING FROM DOOR HEAD TO CEILING. CONSIDERATION SHALL ALSO BE GIVEN TO LOCATING CONTROL JOINTS FROM FLOOR TO CEILING AT EITHER EDGE OF LARGE WINDOW
- OPENINGS.
- 12. VERIFY HOISTWAY SHAFT SIZE REQUIREMENTS w/ ELEVATOR MANUFACTURER & COORDINATE. 13. COORDINATE ALL CHASE SIZES AND LOCATIONS W/ MECHANICAL. PROVIDE CHASES AT ALL EXPOSED
- MECHANICAL & ELECTRICAL WITH ADJACENT WALL MATERIAL AS REQUIRED.
- 14. COORDINATE ALL SHEAR WALL LOCATIONS W/ STRUCTURAL PLANS. 15. THE AIR & MOISTURE WEATHER BARRIER IS TO BE CONTINUOUS FROM THE BASE OF THE WALLS UP TO &
- TYING INTO THE ROOF BARRIER SYSTEM. 16. WALL TYPES ARE '4C' TYPICALLY UNLESS NOTED OTHERWISE
- 17. NEW CMU IN EXISTING AREAS SHALL ALIGN WITH EXISTING BONDING PATTERNS (STACKED OR RUNNING)



ISSUE:

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REVISION SCHEDULE:

02/23/23 ADD 03

PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

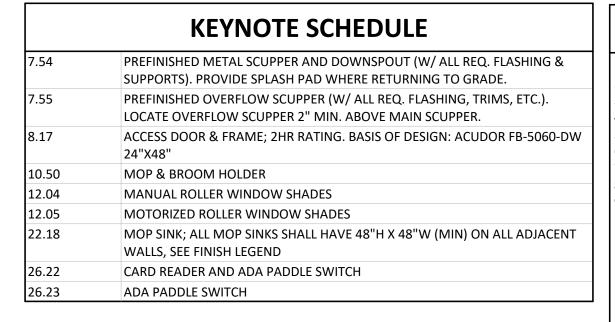
SHEET TITLE:

FIRST FLOOR PLAN - AREA B

A101B

FIRST FLOOR PLAN - AREA B

1/8" = 1'-0"



GENERAL NOTES

- FIRE RATED WALL ARE INDICATED ON THE CODE PLANS.
- PROVIDE FIRE EXTINGUISHERS AND CABINETS AS SHOWN ON THE CODE PLAN(S).
- REFER TO SHEET <u>G000</u> FOR ADA STANDARDS. REFER TO SHEET <u>G003</u> FOR WALL, ROOF, AND FLOOR TYPES.
- INTERIOR DIMENSIONS ARE FROM FACE OF GWB/CMU TO FACE OF GWB/CMU UNLESS OTHERWISE NOTED. ALL WALL TYPES TO EXTEND TO DECK UNLESS OTHERWISE NOTED ON WALL TYPES.
- . EXTERIOR DIMENSIONS ARE FROM FACE OF BRICK/SHEATHING UNLESS OTHERWISE NOTED.
- COORDINATE WORK DONE BY OTHERS AS INDICATED ON THE DRAWINGS.
- INCREASE WALL THICKNESS OF METAL STUD AND CONCRETE BLOCK WALLS AS REQUIRED TO ACCOMODATE MECHANICAL AND ELECTRICAL DEVICES - VERIFY W/ ARCHITECT PRIOR TO WORK.
- 10. SEE MECHANICAL FOR ALL FLOOR DRAIN SIZES AND LOCATIONS U.N.O. SET FLOOR DRAINS MINIMUM ¾" BELOW FINISHED FLOOR. PROVIDE EVEN SLOPE FROM WALL TO DRAIN W/ A MAXIMUM SLOPE OF 1/4" PER
- 1. VERIFY DRYWALL CONTROL JOINT LOCATIONS W/ ARCHITECT ON SITE PRIOR TO INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTROL JOINTS AT 30'-0" O.C. MAX. IN LONG WALL EXPANSES. CONTROL JOINTS AT DOOR JAMBS EXTENDING FROM DOOR HEAD TO CEILING. CONSIDERATION SHALL ALSO BE GIVEN TO LOCATING CONTROL JOINTS FROM FLOOR TO CEILING AT EITHER EDGE OF LARGE WINDOW

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Aberdeen, SD 57401

Phone: 605-725-4852

601 Kansas City St. 7

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CO-OP PROJECT NO: 2153

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REVISION SCHEDULE:

ADD 01 ADD 02 ADD 03

PROJECT:

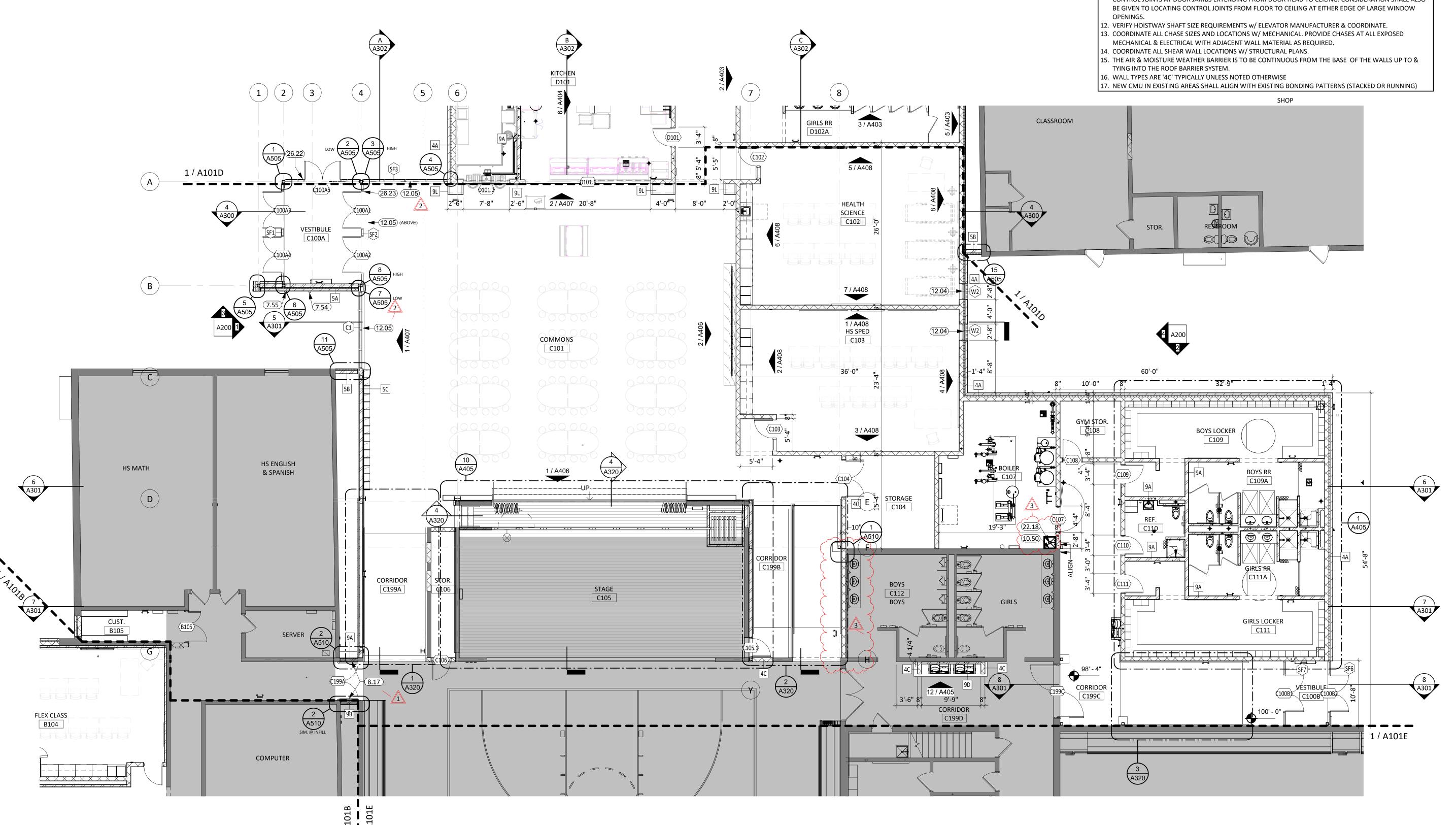
WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

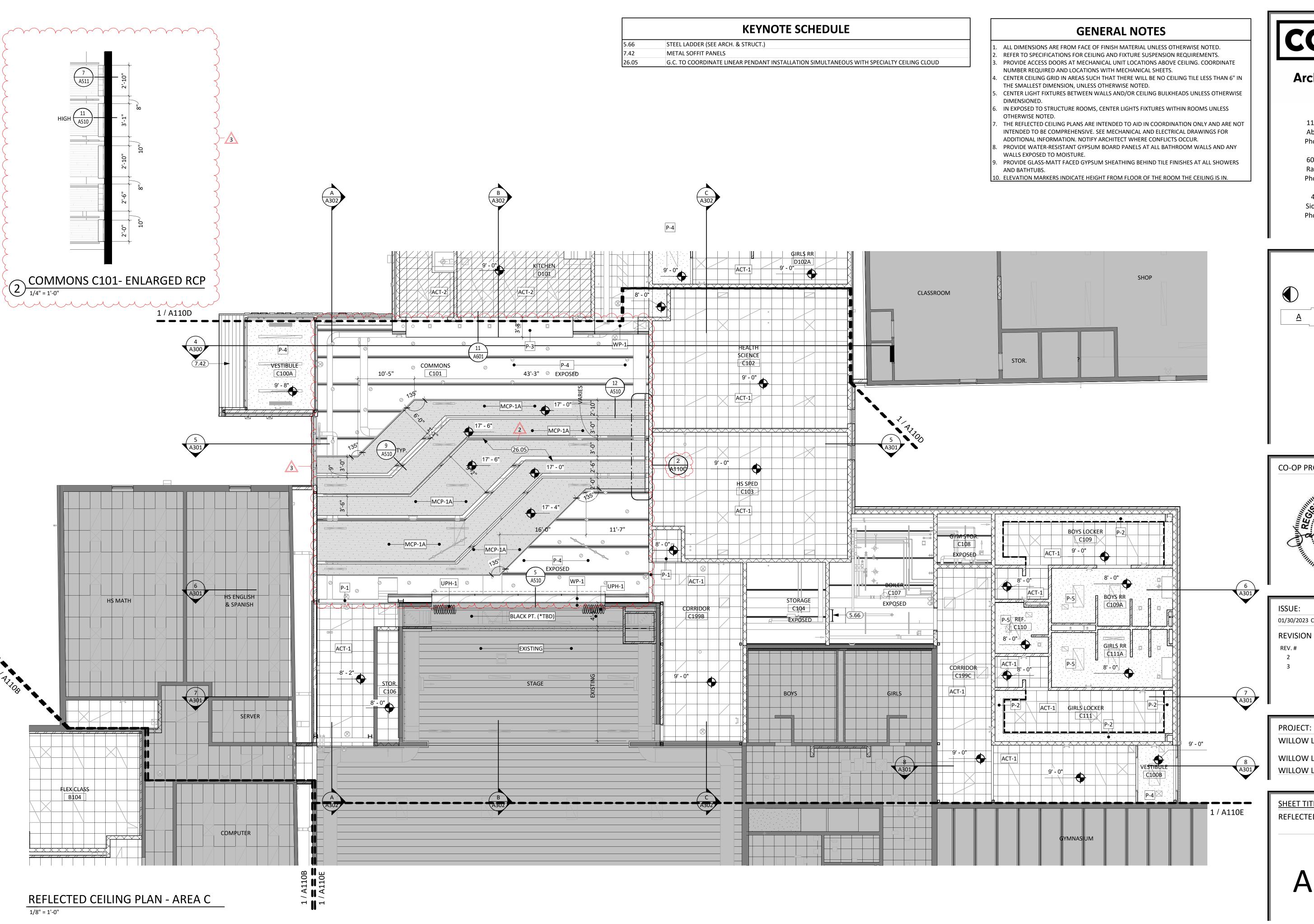
FIRST FLOOR PLAN - AREA C

A101C



1/8" = 1'-0"

FIRST FLOOR PLAN - AREA C

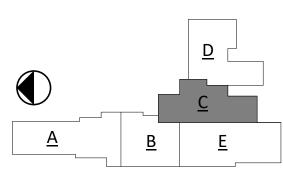


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ISSUE:

01/30/2023 CONSTRUCTION DOCUMENTS

REVISION SCHEDULE:

. #	REV. DSC.	REV. DATE
	ADD 02	02/16/23
	ADD 03	02/23/23

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

REFLECTED CLG PLAN - AREA C

A110C

				FII	NISH LEGEND			
TYPE	MARK	MANUFACTURER	STYLE	COLOR	STYLE/COLOR NO.	SIZE	INSTALL	NOTES
CEILINGS	IVIZATA	MARGIACIONEN	31122	COLON	STILL, COLOR ITO.	JIZE	INSTALL	140123
	ACT-1	ARMSTRONG CEILINGS	ACOUSTIC CEILING, FIELD	WHITE	FINE FISSURED, HHF-157	2X2	ROCKFON GRID 211.01	
ACOUSTICAL	ACT-2	ROCKFON MFG	ACOUSTIC CEILING, KITCHEN	WHITE	SIMILAR TO: HHF-197	2X2	ROCKFON GRID 260.01	USED FOR COMMERCIAL KITCHEN AREAS
CEILING	AWP-1	G&S, OR SIMILAR	ACOUSTI-PANELS (AP)	4149-801	DESIGNTEX- ULSTER/ NATURAL	VARIES	SEE ELEVATIONS, ZCLIP	MUSIC ROOM WALL PANELS
SPECIALTY CEILING/WALL	MCP-1A	ARMSTRONG CEILINGS	METALWORKS DIVERGE CEILING	2-TONE: SEA SALT [M2] / GUN METAL [M1]	8222A21, PER ARMSTRONG DETAIL		2" AXIOM(SOLID), 1"/2"H X 2", 4", 9"W VARIED PLANK	SUSPENDED. CONTACT DANIELA MAINZ, DMAINZ@ARMSTRONGCEILINGS.COM, FOR PRODUCT SPEC+DETAILS
-,	MCP-1B	ARMSTRONG CEILINGS	METALWORKS LINEAR DIVERGE	2-TONE: SEA SALT [M2] / GUN METAL [M1]	8222A21, PER ARMSTRONG DETAIL		INCLUDE 5494S2 - 3/4" FILLER STRIPS & PLANK END CAPS WHERE PLANK END IS	WALL MOUNTED/ VERT. INSTALLATION. CONTACT: DMAINZ@ARMSTRONGCEILINGS.COM
FLOORING & T	TILING							
	WLK-1	MILLIKEN FLOORING	WALK OFF GRID FLOORING	DARK GREY	OBEX BAR - CUTX	27CM X 1M	SURFACE MOUNTED W/ TRANSITIONS	
			WALK OFF CARPET TILE		F 40CO CTED DICUT IN	PLANK	·	DEVIEW DID ALT #3 FOR ADDITIONAL LOCATIONS
	WLK-2	PHILADELPHIA QUEEN	WALK OFF CARPET TILE	00500 STRUT	54860 STEP RIGHT IN	24X24	RANDOM/ NOT QTR-TURN	REVIEW BID ALT #3 FOR ADDITIONAL LOCATIONS PRICING ALT: PENTZ COMMERCIAL, 7917T ART DECO. VERIFY
CARRET	CPT-1	PATCRAFT	CARPET TILE	00710 PURPOSE	I0491 ACHIEVE	24X24	MONOLITHIC	COLORWAY WITH EXISTING
CARPET	CPT-2A	PATCRAFT	CARPET TILE	0500 GRANITE	10555 INCLUSION	24X24	MONOLITHIC	
	CPT-2B	PATCRAFT	CARPET TILE	00150 FELDSPAR	10555 INCLUSION	24X24	MONOLITHIC, ACCENT	
	CPT-2C	PATCRAFT	CARPET TILE	00400 FLUORITE	10555 INCLUSION	24X24	MONOLITHIC, DK ACCENT	
	CPT-3 CPT-4	PATCRAFT EF CONTRACT FLOORING	CARPET TILE KINETEX	00390 CELADON CSC77 RUSH	10575 GRAPHITE CASCADE	24X24 24X24	BRICK ASHLAR	
	VCT-1	ARMSTRONG, PER OWNER	12X12 CVT, MATCH EXISTING	CSC17 NOSII	CASCADE	24/24	ASIILAN	**CHECK SCHOOL'S ATTIC STOCK BEFORE BIDDING
\	LVT-1	NOT USED						
VINYL	LVT-2	POLYFLOR	APEX- SLIP RESISTANT VINYL	4202	CHROMITE	PVC SHEET	4" CONTINUOUS COVE	HEAT WELD CONT. WALL BASE UP TO WALL FINISH PLY-1
	LVT-3	POLYFLOR, WET AREA	POLYSAFE- HYDRO EVOLVE	4252	AMAZON	PVC SHEET	4" CONTINUOUS COVE	HEAT WELD CONT. WALL BASE UP TO WALL FINISH PLY-1
_	RBF-1	NORA	ENVIRONCARE, 2MM	7039	BABY SHOWER	24" X 24"	INSTALL RBF-2/ RBF-3 ACCENTS	REVIEW INSTALLATION DIMS/LINES @ COMMONS
RUBBER	RBF-2	NORA	ENVIRONCARE, 2MM	7033	TAIL GATING	24" X 24"		CLASS ROOMS
	RBF-3	NORA	ENVIRONCARE, 2MM	7036	CLAM BAKE	24" X 24"		CORRIDOR ACCENT
WOOD	WDF-1	PER CONTRACTOR	2" PLANK FLOORING, SEALED	CLEAR COAT	WATERBASED SEALANT/STAIN			BID TO INCLUDE- STRIPPING EXISTING STAGE AND REFINISH
	CT-1	CERAMIC TILE, SOLID	DALTILE 'NATURAL HUES'	LACE	QH34	6" X 6"	50% OF 100% MIX, SEE MIX PAIRING	FIELD RR TILE
	CT-2	CERAMIC TILE, 6" MIXED	DALTILE 'NATURAL HUES'	IRELAND/ FRECKLES	QH34/ QH36	6" X 6"	25% OF EACH COLORWAY, MIX W/ CT-1	BOY/GIRLS @ ELEM. RR
CEDANAIC O	CT-3	CERAMIC TILE, 6" MIXED	DALTILE 'NATURAL HUES'	CLOUD/ BIRCH	QH32/ QH84	6" X 6"	25% OF EACH COLORWAY, MIX W/ CT-1	BOY/ GIRLS @ HS. RR
CERAMIC & PORCELAIN	CT-4	CERAMIC TILE, GLAZED	DALTILE 'NATURAL HUES'	PEPPER	QH34	2" X 8" VERT.	MONO STACK W/ MAPEI 09 GREY GROUT	LOCKER ROOMS
TORRELL IIIV	CT-5	CERAMIC TILE, GLAZED	*MATCH EXISTING				@ BOYS RR (C122)	PREFERENCE TO MATCH EXISTING BEFORE RESELECTING
	PT-1	PORCELAIN TILE, 12X24	VIRGINIA TILE ATLAS CONCORDE	WHITE	PATH, COLOR BODY	12" X 24" RECT.	INSTALL BRICK W/ MAPEI 11 BEIGE SAHARA GROUT	RESTROOM FLOORING
PAINT & WALL	COVEDIA	ICC					SAHARA GROUT	
PAINT & WALL								PROVIDE STRIKE OFF SAMPLE OF EXISTING PAINT VS. ALT
	P-1	PER SPEC	FIELD PAINT	MATCH EXIST.	MATCH EXISTING	PER SPEC	ALT SPEC/ COLOR: SW7638	SPECIFICATION
	P-2	PER SPEC	GREEN ACCENT	PINE FOREST	PPG1134-7, *SATIN	PER SPEC	*USE GLOSS FINISH @ RR SIGNAGE	@ LOCKER ROOM & RR SIGNAGE
	P-3	PER SPEC	SOFFIT ACCENT	KENDALL CHARCOAL	HC-166, SATIN	PER SPEC	PAINT LIGHT TRIM KIT AS NEEDED	@ CAFE/ KITCHEN & STUDENT WORK DISPLAY
	P-4	PER SPEC	COMMONS CEILING WHITE	EXTRA WHITE	SW7006, MATTE	PER SPEC	PAINT TRANSITION LINE @ 18' AFF	PAINT ALL EXPOSED DUCTWORK, PIPES, INVISACOUSTIC
								PANELS, ETC.
PAINT	P-5	PER SPEC	BATHROOM CEILING, SHOWER	EXTRA WHITE	SW7006, SEMI-GLOSS	PER SPEC	WET/ DAMP AREA	
	GR-01	PAINTED MURAL	FITNESS BOYS ELEVATION	P-2				G.C. TO PROVIDE TAKE-OFF FOR SCHOOL APPROVAL
	GR-02	PAINTED MURAL	FITNESS GIRLS ELEVATION	P-2				G.C. TO PROVIDE TAKE-OFF FOR SCHOOL APPROVAL
	GR-03	PAINTED MURAL	BOYS ELEVATION	P-2				G.C. TO PROVIDE TAKE-OFF FOR SCHOOL APPROVAL
	GR-04	PAINTED MURAL	GIRLS ELEVATION	P-2				G.C. TO PROVIDE TAKE-OFF FOR SCHOOL APPROVAL
	GR-05	PAINTED MURAL	HS BOYS ELEVATION	P-2				G.C. TO PROVIDE TAKE-OFF FOR SCHOOL APPROVAL
	GR-06	PAINTED MURAL	HS GIRLS ELEVATION	P-2				G.C. TO PROVIDE TAKE-OFF FOR SCHOOL APPROVAL
WALL COVERING	VWC-1 VWC-2	PER SUBCONTRACTOR PER SUBCONTRACTOR	OPERABLE PARTITION OPERABLE PARTITION @ STAGE	VINYL/ TRIM- *TBD VINYL / TRIM-*TBD	* BLACK, OR SIMILAR TO			*COLOR SELECTED ONCE ALT BID ACCEPTED
	TB-1	CLARIDGE	VINYL	KL483 DOWNING STONE	LINDEN PATTERN	PER ELEV.	MAP TRIM & CLIP SYSTEM	
	15 1	00 11110 00			2A: YELLOW-201/ 2B:		With Think & SELF STOTE W	
TACKBOARDS	TB-2A & 2B	G&S, OR SIMILAR	ACOUST-TAC (ATF), 5/8" THICK	DESIGNTEX ULSTER	NAVY-404	PER ELEV.	ZCLIP	AG CLASSROOM FFA TACKBOARDS
	TB-3	PER G.C.	KOROSEAL VWC w/ 5/8" CORK BOARD	OLIVER TWIST 2022-90	AUTHENTICITY PATTERN	PERELEV	ZCLIP, TAMPER PROOF	3 FINISH PERIMETER W/ KOROSEAL VWC
	PLY-1	POLYFLOR-WALL	POLYCLAD PRO	4095	GREY STEEL	SHEET, 1.25MM	HEAT WELDED TO FLOOR 4" COVE	
SPECIALTY	FRP-1	MARLITE	SMOOTH FRP BOARD/ PVC TRIM	LIGHT GREY	S 490N	4X8 STANDARD	*RUN FULL LENGTH OF WALL IF LESS	*ALL MOP SINKS SHALL HAVE FRP ON ALL ADJACENT WALLS
			•		3 43011		THAN 48"W	W/ COORD. TRIM
LAMINATE	WP-1	PSI WALL PANEL SYSTEMS	HPL WALL PANELS/ WILSONART	PL-4		HORIZONTAL	PER ELEVATIONS & FINISHED OPENING	SYSTEM 310 SPACERS, BLACK
CURTAINS	UPH-1	ROSE BRAND, OR SIMILAR	VELOUR CURTAIN W/O FRINGE	BLACK	CHARISMA SYNTHETIC, IFR	25OZ*	FIXED END-PANELS AND VALANCE	*GC TO MATCH EXISTING STAGE CURTAIN OZ. & FULLNESS
WALL BASE TE	RANSITIO	NS & MISC. TRIMS						
VINYL COVE BASE	VB-1	VINYL COVE BASE	JOHNSONITE, OR SIMILAR	CHARCOAL				DESIGN INTENT: MATCH EXIST.
WOOD DOOR	WDD-1	PER SPEC AND SCHEDULES	OAK SLAB WOOD DOOR					PROVIDE 18" KICK PLATE
WOOD BENCH	WD-1	CONTRACTOR	OAK	LACQUERED HARDWOOD	1-3/4" SOLID WOOD	SEE DRAWINGS	SEE DRAWINGS	APPROVE FINISH WITH DESIGNER
SCHLUTER		INTERIOR DETAILS/ A511						
MILLWORK	DI 4	MUCONART	LABAINIATE CACELLOSIA	CT11 AVC C124	7000 00 14177	TEI	MATCHING EDGES AND	
	PL-1	WILSONART	LAMINATE CASEWORK	5TH AVE. ELM	7966-60 MATTE	TFL	MATCHING EDGEBAND	SIDE CDI ACH MULEDE MOTED ONLY CALLY & DAINT AT THE
	PL-2	FORMICA	PLAM COUNTERTOPS, MATCH EXIST.	FERRO GRAFITE, *MATCH EXISTING	9483-11 SATIN TOUCH	TFL	SELF EDGE, SEE A510 DETAIL	SIDE SPLASH WHERE NOTED ONLY. CAULK & PAINT AT ALL WALL ADJACENCIES
LAMINATE	PL-3	WILSONART	LAMINATE CASEWORK	SLATE GREY	D91-60, MATTE	TFL	MATCHING EDGEBAND	@science room/ storage/ class room cubbies
	PL-4	WILSONART	PLAM CTOP/ BENCH SEAT/BACK	FRENCH LINEN	5016-38 FINE VELVET	HPL	SEE A510 CTOP PROFILE DETAIL	@class rooms
	PL-5	FORMICA	WALL PANEL, SEE WP-1	CAMEL ELM	5795-NG	HPL	SEE ELEVATIONS AND DETAILS	@PSI Walls
	PL-6	WILSONART	PLAM BENCH	PARK ELM	7967K-12 SOFT GRAIN	HPL		USED ON SERVING LINE EQUIP.
		CORIAN	SOLID SURFACE	LAVA ROCK	CTOP, 3CM MATTE FINISH	2CM		
STONE & SOLID	SS-1		EDOVA DECIMI CLIDEA CE COLAD	DI A CIV		2004		COLENICE CTOD O INTEGRATER CINUS
SURFACE	SS-2	PII PRIME INDUSTRIES, INC	EPOXY RESIN SURFACE @ LAB	BLACK		2CM		SCIENCE CTOP & INTEGRATED SINKS
	SS-2 US		EPOXY RESIN SURFACE @ LAB POWDER COATED STEEL PARTITIONS	BLACK DOVE GRAY	2125	2CM		SCIENCE CTOP & INTEGRATED SINKS ADA HEIGHT

					H SCHEDULE		
	RM#	NAME	FLR FIN.	BASE FIN.	WALL FIN.	CLG FIN.	NOTES
	A101	WORK ROOM	CPT-1	VB-1	P-1	ACT-1	2 CICNIC REQUIRED LOCATION OF CICNIA CE
	A102	RR ENTRY	CT-3	CT-1/CT-2	P-1/ CT-1/ CT-2/ GR-03/ GR-04	ACT-1	2 SIGNS REQUIRED, LOCATION OF SIGNAGE MOUNT *TBD
	A102A	BOYS GIRLS	CT-3 CT-3	CT-1/ CT-2 CT-1/ CT-2	P-1/ CT-1/ CT-2	ACT-1	CONFIRM SIGNAGE NAME
	A102B A103	ELEM. FLEX	CPT-1	VB-1	P-1/ CT-1/ CT-2 P-1	ACT-1	CONFIRM SIGNAGE NAME CONFIRM SIGNAGE NAME
	A103	SM. GROUP	CPT-3	VB-1	P-1	ACT-1	CONTINUI SIGNAGE NAIVIE
	A103B	SPEECH	CPT-3	VB-1	P-1	ACT-1	EXISTING SIGNAGE, VERIFY NEEDS
	A103C	OT/PT	CPT-3	VB-1	P-1	ACT-1	CONFIRM SIGNAGE NAME WITH RECEPTION STAFF. MOUNT SIGN AT NEW OPERABLE WINDOW OPENING
	A103D	VEST.	CPT-1	VB-1	P-1	ACT-1	
	A104	ELEM. FLEX	CPT-1	VB-1	P-1	ACT-1	CONFIRM SIGNAGE NAME
	A105	SM. GROUP	CPT-3	VB-1	P-1	ACT-1	
	A106	SPEECH	CPT-3	VB-1	P-1	ACT-1	CONFIRM SIGNAGE NAME
	A107A	IT/DATA	EXISTING	EXISTING	P-1	EXIST.	CONFIRM SIGNAGE NAME
	A107B	IT/DATA	EXISTING	EXISTING	P-1	EXIST.	EXISTING SIGNAGE, VERIFY NEEDS
	A108	RECEPTION	EXISTING	EXISTING	P-1	EXIST.	TOUCH UP PAINT AS NEEDED AT WALL OPENING
	A199 B101	CORRIDOR MUSIC OFFICE	CPT-1 CPT-2B	VB-1 VB-1	P-1 P-1	ACT-1	
	B101	STOR.	CPT-2B	VB-1	P-1 P-1	ACT-1	
	B102	MUSIC	CPT-2B/ CPT-2A/ CPT-2C	VB-1	P-1/ AWP-1	ACT-1	CONFIRM SIGNAGE NAME WITH BAND STAFF. 2 SIGNS REQUIRED
	B103A	BAND STORAGE	CPT-2C	VB-1	P-1	ACT-1	CONFIRM SIGNAGE NAME
	B103B	PRACTICE	CPT-2C	VB-1	P-1	ACT-1	
	B103C	PRACTICE	CPT-2C	VB-1	P-1	ACT-1	
	B104	FLEX CLASS	CPT-1	VB-1	P-1/ VWC-1*	ACT-1	CONFIRM SIGNAGE NAME. 2 SIGNS REQUIRED
	B105	CUST.	EXISTING	EXISTING	EXISTING/ P-1	EXIST.	
	B106	1 ON 1	CPT-3	VB-1	P-1	EXIST.	
	B107	FLEX CLASS (ART, VIDEO, SPANISH)	CPT-1	VB-1	P-1/ VWC-1*	ACT-1	CONFIRM SIGNAGE NAME WITH BAND STAFF
	B107A	ART STOR.	CPT-1	VB-1	P-1	ACT-1	CONFIRM SIGNAGE NAME
	B108	1 ON 1	CPT-3	VB-1	P-1	ACT-1	
	B199A	CORRIDOR	VCT-1	VB-1	P-1	ACT-1	
	C100A C100B	VESTIBULE VESTIBULE	WLK-1 WLK-2*	VB-1 VB-1	P-1 P-1	P-4 P-4	*REVIEW ALT #3 FOR ADDITIONAL WALK OFF CARPET LOCATIONS, PER FINISH PLANS
	C101	COMMONS	RBF-1/ RBF-2/ RBF-3/ WLK-1	VB-1/ WP-1	P-1/ P-4/ WP-1/ MCP-1B/ PL-6/ TB-3	P-4/ MCP-1A/ P-3	CONFIRM SIGNAGE NAME
	C102	HEALTH SCIENCE	RBF-2	VB-1	P-1	ACT-1	CONFIRM SIGNAGE NAME
	C103	HS SPED	CPT-1	VB-1	P-1	ACT-1	CONFIRM SIGNAGE NAME
	C104 C105	STORAGE STAGE	RBF-1 *WDF-1	VB-1 VB-1/ WP-1	P-1 EXISTING/ WP-1/ UPH-1/ VWC-2	N/A EXIST.	
	C106	STOR.	EXISTING	EXISTING	EXISTING	N/A	
	C107	BOILER	SC-1	VB-1	P-1	N/A	
	C108	GYM STOR.	RBF-3	VB-1	P-1	N/A	
	C109	BOYS LOCKER	RBF-3/ CPT-4	VB-1/ CT-4	P-1/ P-2/ CT-4	ACT-1/ P-2	P-2 AT SOFFIT ONLY
	C109A	BOYS RR	LVT-3	CT-1/ CT-4/ LVT-3*	CT-1/ P-1/ PLY-1*/ CT-4	P-5	* HEAT WELD WALL VINYL TO FLOOR @ 6" WAL BASE COVE HT.
	C110 C111	REF. GIRLS LOCKER	P-5 RBF-3/ CPT-4	CT-1/ LVT-3* VB-1/ CT-4	CT-1/ P-1/ PLY-1* P-1/ P-2/ CT-4	P-5 ACT-1/ P-2	2 SIGNS REQUIRED, LOCATION OF SIGNAGE MOUNT *TBD P-2 AT SOFFIT ONLY
A	C111A	GIRLS RR	LVT-3	CT-1/ CT-4/ LVT-3*	CT-1/ P-1/ PLY-1*/ CT-4	P-5	* HEAT WELD WALL VINYL TO FLOOR @ 6" WAL
3	C112	BOYS	EXISTING	EXISTING	EXISTING	EXISTING	BASE COVE HT. NO WORK REQUIRED
	C199A	CORRIDOR	RBF-1/ RBF-3	VB-1	P-1/ TB-3	ACT-1	SEE ELEVATION 1/A407
	C199B	CORRIDOR	RBF-1/ RBF-3	VB-1	P-1	ACT-1	
	C199C	CORRIDOR	RBF-3/ WLK-2	VB-1	P-1/ GR-01/ GR-02	ACT-1	SEE ELEVATION 11/ A405
	C199D	CORRIDOR	RBF-3	VB-1	P-1 (CMU)/ CT-4	EXISTING	LOCATION OF SIGNAGE MOUNT *TBD
	D100	VEST.	WLK-2	VB-1	P-1	P-4	CONFIRM SIGNAGE NAME
	D101 D101A	KITCHEN RESTROOM	LVT-2/ LVT-3 LVT-2	LVT-2*/ LVT-3* LVT-2*	PLY-1* PLY-1*	ACT-2	* HEAT WELD WALL VINYL TO FLOOR @ 6" WAL
	D102	RR ENTRY	RBF-3	VB-1	P-1/ GR-05/ GR-06	P-4	BASE COVE HT. SEE ELEVATION
	D102 D102A	GIRLS RR	PT-1	CT-1/ CT-3/ VB-1	P-1/ GR-05/ GR-06 CT-1/ CT-3/ P-1	ACT-1	JEL LILVATION
	D102A	BOYS RR	PT-1	CT-1/ CT-3/ VB-1	CT-1/ CT-3/ P-1 CT-1/ CT-3/ P-1	ACT-1	
	D102B	CUSTODIAL	SC-1	VB-1	P-1/ FRP-1*	N/A	
	D103	AG CLASS	CPT-1	VB-1	P-1/ TB-2A/ TB-2B	ACT-1	
	D103A	OFFICE	CPT-1	VB-1	P-1	ACT-1	
	D103B	AG SHOP	SC-1	N/A	P-1/ FRP-1*	N/A	
	D103C	TOOLS	SC-1	N/A	P-1	N/A	CONFIRM SIGNAGE NAME
	D104	FACS	RBF-2	VB-1	P-1	ACT-1	
	D105	WORKROOM	RBF-1	VB-1	P-1	ACT-1	
	D106	SCIENCE	RBF-2	VB-1	P-1	ACT-1	
	D106A	SCIENCE PREP.	RBF-2	VB-1	P-1	ACT-1	CONFIRM SIGNAGE NAME
	D199A	CORRIDOR	RBF-1/ RBF-2/ RBF-3	VB-1	P-1/ PL-6/ TB-3/ P-3 (SOFFIT)	ACT-1/ *P-4/ P-3	CONFIRM SIGNAGE NAME

ROOM FINISH SCHEDULE - ALT #2							
RM#	NAME	FLR FIN.	BASE FIN.	WALL FIN.	CLG FIN.	NOTES	
ALT 100	STORAGE	SC-1	VB-1	P-1	EXISTING/		
					EXPOSED		
ALT 101	STORAGE	SC-1	VB-1	P-1	EXISTING/		
					EXPOSED		

NOTE: SEE ENLARGED FINISH PLANS FOR FINISHES CONNECTED TO ALT #3, WALK OFF CARPET REPLACEMENT AREAS.





1108 S. Main St. 102 Aberdeen, SD 57401 Phone: 605-725-4852

601 Kansas City St. 7 Rapid City, SD 57701 Phone: 605-716-3652

440 E. 8th St. 221 Sioux Falls, SD 57103 Phone: 605-334-9999

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CO-OP PROJECT NO:



ISSUE:

01/30/2023 CONSTRUCTION DOCUMENTS

REVISION SCHEDULE:

REV. DSC. REV. DATE ADD 01 02/10/23 ADD 03 02/23/23

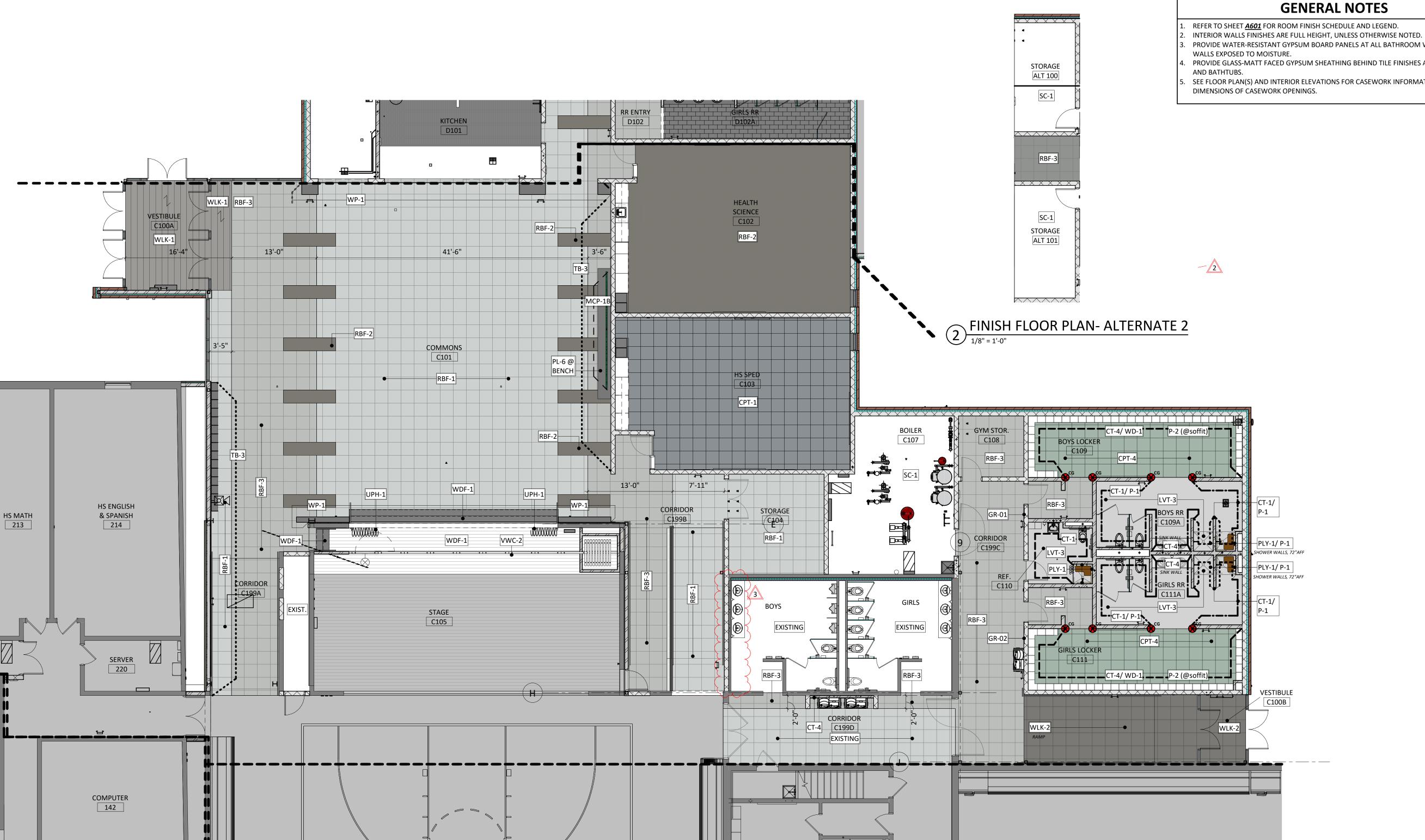
PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

FINISH SCHEDULE & LEGENDS



FINISH FLOOR PLAN - AREA C & E

GENERAL NOTES

REFER TO SHEET <u>A601</u> FOR ROOM FINISH SCHEDULE AND LEGEND.

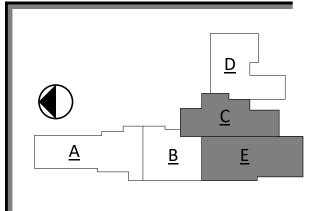
- PROVIDE WATER-RESISTANT GYPSUM BOARD PANELS AT ALL BATHROOM WALLS AND ANY
- PROVIDE GLASS-MATT FACED GYPSUM SHEATHING BEHIND TILE FINISHES AT ALL SHOWERS
- SEE FLOOR PLAN(S) AND INTERIOR ELEVATIONS FOR CASEWORK INFORMATION. FIELD VERIFY

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CO-OP PROJECT NO:

2153



ISSUE:

01/30/2023 CONSTRUCTION DOCUMENTS

REVISION SCHEDULE:

ADD 02 02/16/23 ADD 03 02/23/23

PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

ENLARGED FINISH PLANS-AREA(S) C & E



GENERAL NOTES

SEE SHEET **G000** FOR REQUIRED ADA CLEARANCES & MOUNTING HEIGHTS.

FIRE RATED WALLS ARE INDICATED ON THE CODE PLANS. ALL WALLS TO EXTEND TO DECK UNLESS OTHERWISE NOTED ON WALL TYPES.

RESTROOM WALLS ARE SOUND INSULATED AND EXTEND TO THE DECK.

ALL INTERIOR DIMENSIONS ARE FROM FACE OF GWB/CMU TO FACE OF GWB/CMU, UNLESS

SEE FLOOR PLAN FOR CASEWORK PLAN INFORMATION. FIELD VERIFY ALL CASEWORK

OPENINGS. COORDINATE ALL CASEWORK DIMENSIONS WITH OWNER PROVIDED AND CONTRACTOR PROVIDED APPLIANCES/EQUIPMENT.

PROVIDE COUNTERTOP SUPPORTS AT OPEN SPACES AT MINIMUM OF 32" ON CENTER AND MAXIMUM OF 48" ON CENTER.

TALL CABINETS OVER 30" WIDE SHALL HAVE VERTICAL DIVIDER FULL HEIGHT.

COORDINATE DEVICE PENETRATIONS AT COUNTERTOPS W/ MECHANICAL AND ELECTRICAL.). MILLWORK SUPPLIER SHALL PROVIDE FILLER PANELS AND SCRIBE STRIPS AS NEEDED FOR COMPLETE INSTALLATION.

11. PROVIDE FINISHED END PANELS AT EXPOSED MILLWORK SURFACES.

12. COORDINATE INSTALLATION OF OWNER PROVIDED EQUIPMENT WITH NEW CONSTRUCTION. 13. CAULK PERIMETER OF TUB/SHOWER UNITS, TOILETS, URINALS, SINKS AND COUNTERTOPS AS

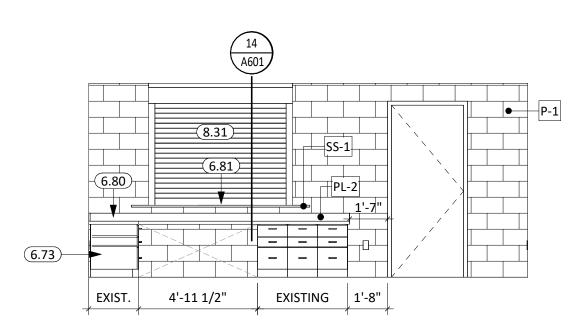
14. PROVIDE 2x BLOCKING AT GRAB BAR AND FUTURE GRAB BAR LOCATIONS. SEE CODE SHEETS FOR ADDITIONAL BLOCKING INFORMATION.

15. PJ = PANEL JOINT

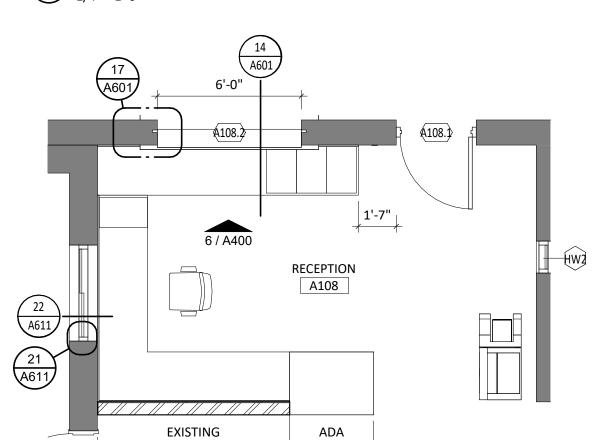
16. RV = REVEAL

KEYNOTE SCHEDULE

	RETITOTE SCHEDOLE
4.71	INFILL LOUVER OPENING W/ BRICK, INSULATION, AND CMU TO MATCH EXISTING WALL CONSTRUCTION/FINISH; SEE MECHANICAL PLANS FOR DEMOLISHED LOUVER LOCATIONS.
6.73	PLASTIC LAMINATE BASE CABINET
6.76	FINISHED END
6.80	PLASTIC LAMINATE COUNTERTOP
6.81	SOLID SURFACE
6.84	SOLID SURFACE WINDOW SILL
8.31	OVERHEAD COILING COUNTER DOOR
8.86	EXISTING GLAZING TO BE REPLACED WITH 1" INSULATED FROSTED GLASS
9.36	SINGLE-TONE PAINTED SIGNAGE GRAPHIC
10.01	TACKBOARD, SEE FINISH LEGEND [TB-1]
10.02	MARKERBOARD, B.O.DCLARIDGE SERIES 1 WALLBOARD W/ 1" CORK/MAP RAIL [WHITE],
10.10	TOILET PARTITION
10.11	URINAL SCREEN
10.33	MIRROR W/ TRIM
10.43	SANITARY NAPKIN DISPOSAL, OWNER PROVIDED CONTRACTOR INSTALLED
10.44	TOILET TISSUE DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED
10.45	PAPER TOWEL DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED
10.47	SOAP DISPENSER, OWNER PROVIDED CONTRACTOR INSTALLED
10.48	GRAB BAR
11.10	REFRIGERATOR; (OWNER PROVIDED CONTRACTOR INSTALLED).
11.11	MICROWAVE; (OWNER PROVIDED CONTRACTOR INSTALLED).
11.32	SMARTBOARD (OWNER PROVIDED CONTRACTOR INSTALLED)
11.33	TV MONITOR (OWNER PROVIDED CONTRACTOR INSTALLED)
22.19	UTILITY SINK; SEE PLUMBING



6 RECEPTION A108- EAST







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440 E. 8th St. 221 Sioux Falls, SD 57103 Phone: 605-334-9999

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CO-OP PROJECT NO: 2153 ASON M Cane

ISSUE:

01/30/2023 CONSTRUCTION DOCUMENTS

REVISION SCHEDULE:

ADD 01 02/10/23 ADD 03 02/23/23

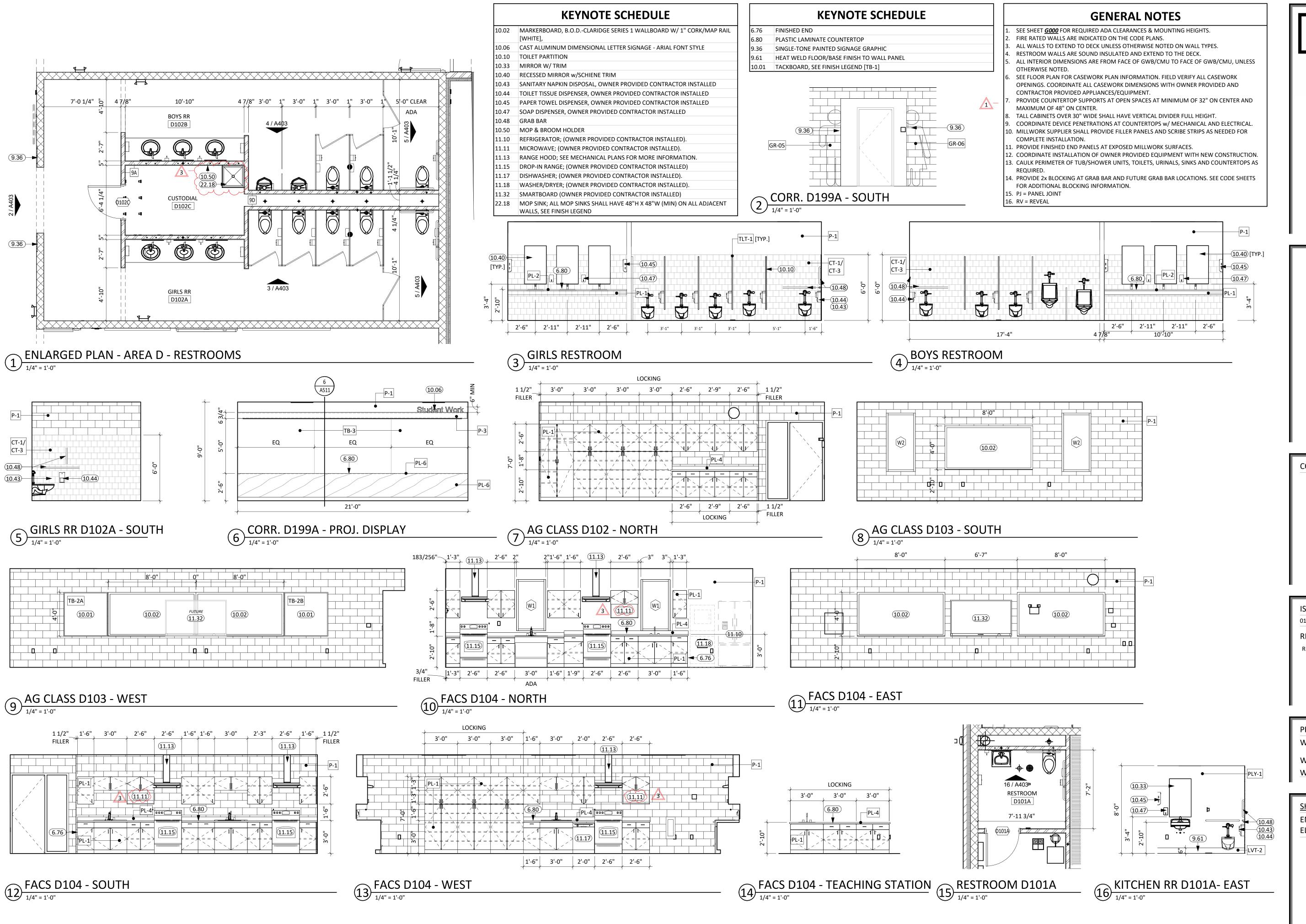
PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

ENLARGED PLANS & INTERIOR ELEVATIONS



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ADD 01 ADD 03

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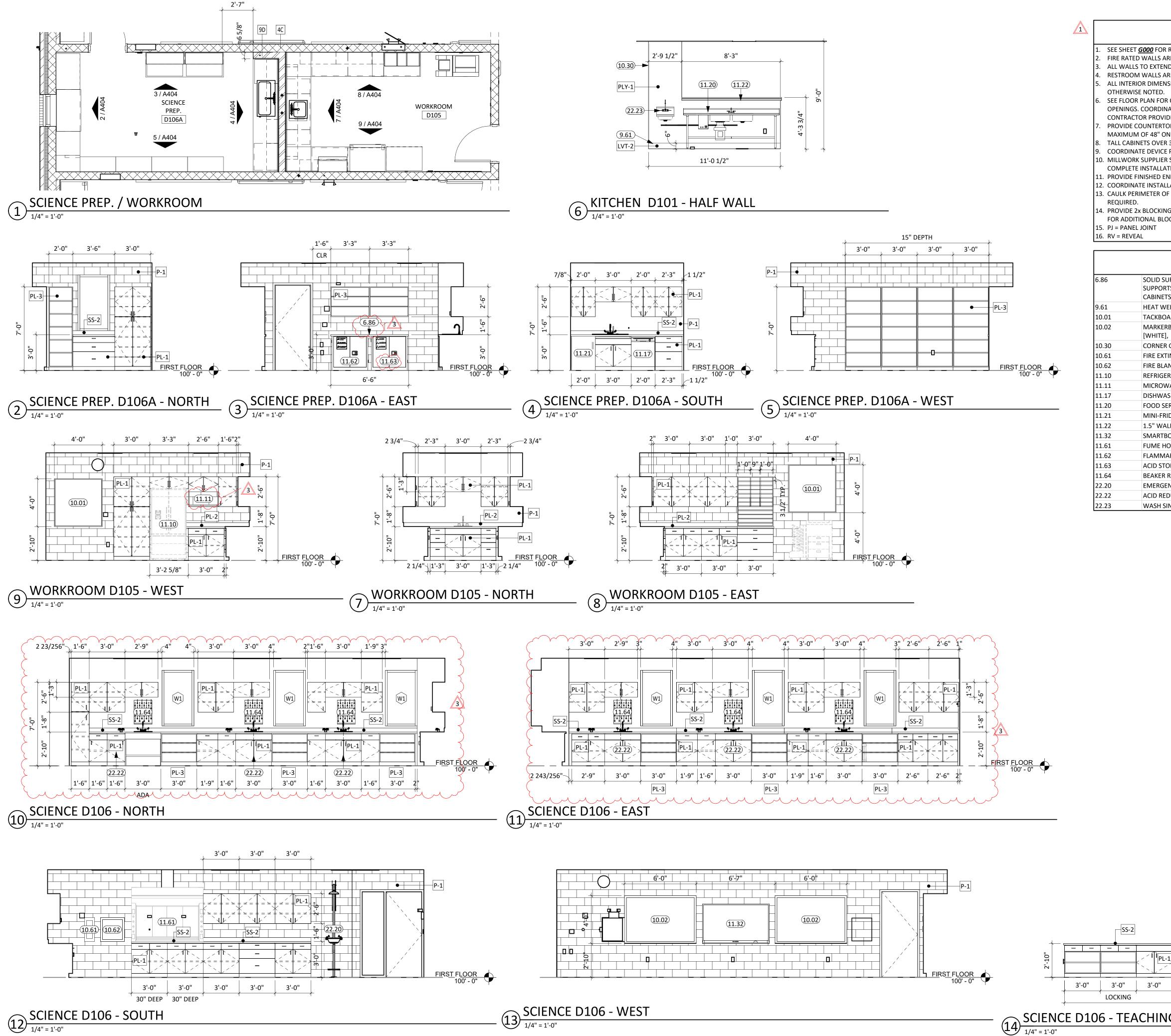
WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT

WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

ENLARGED PLANS & INTERIOR ELEVATIONS





SEE SHEET **G000** FOR REQUIRED ADA CLEARANCES & MOUNTING HEIGHTS.

FIRE RATED WALLS ARE INDICATED ON THE CODE PLANS.

ALL WALLS TO EXTEND TO DECK UNLESS OTHERWISE NOTED ON WALL TYPES. RESTROOM WALLS ARE SOUND INSULATED AND EXTEND TO THE DECK.

ALL INTERIOR DIMENSIONS ARE FROM FACE OF GWB/CMU TO FACE OF GWB/CMU, UNLESS

SEE FLOOR PLAN FOR CASEWORK PLAN INFORMATION. FIELD VERIFY ALL CASEWORK

OPENINGS. COORDINATE ALL CASEWORK DIMENSIONS WITH OWNER PROVIDED AND CONTRACTOR PROVIDED APPLIANCES/EQUIPMENT. PROVIDE COUNTERTOP SUPPORTS AT OPEN SPACES AT MINIMUM OF 32" ON CENTER AND

MAXIMUM OF 48" ON CENTER. TALL CABINETS OVER 30" WIDE SHALL HAVE VERTICAL DIVIDER FULL HEIGHT.

COORDINATE DEVICE PENETRATIONS AT COUNTERTOPS w/ MECHANICAL AND ELECTRICAL.). MILLWORK SUPPLIER SHALL PROVIDE FILLER PANELS AND SCRIBE STRIPS AS NEEDED FOR

COMPLETE INSTALLATION. 11. PROVIDE FINISHED END PANELS AT EXPOSED MILLWORK SURFACES.

12. COORDINATE INSTALLATION OF OWNER PROVIDED EQUIPMENT WITH NEW CONSTRUCTION. 13. CAULK PERIMETER OF TUB/SHOWER UNITS, TOILETS, URINALS, SINKS AND COUNTERTOPS AS

14. PROVIDE 2x BLOCKING AT GRAB BAR AND FUTURE GRAB BAR LOCATIONS. SEE CODE SHEETS FOR ADDITIONAL BLOCKING INFORMATION.

15. PJ = PANEL JOINT

VEVNOTE COLLEDIUE

	KEYNOTE SCHEDULE
6.86	SOLID SURFACE COUNTERTOP ON 3/4" PLYWOOD SUBSTRATE W/ COUNTERTOP SUPPORTS @ 24" O.C. FINISH SURFACE @ 36" AFF. VERIFY HEIGHT W/ STORAGE CABINETS BELOW
9.61	HEAT WELD FLOOR/BASE FINISH TO WALL PANEL
10.01	TACKBOARD, SEE FINISH LEGEND [TB-1]
10.02	MARKERBOARD, B.O.DCLARIDGE SERIES 1 WALLBOARD W/ 1" CORK/MAP RAIL [WHITE],
10.30	CORNER GUARDS
10.61	FIRE EXTINGUISHER AND WALL CABINET
10.62	FIRE BLANKET AND WALL CABINET
11.10	REFRIGERATOR; (OWNER PROVIDED CONTRACTOR INSTALLED).
11.11	MICROWAVE; (OWNER PROVIDED CONTRACTOR INSTALLED).
11.17	DISHWASHER; (OWNER PROVIDED CONTRACTOR INSTALLED).
11.20	FOOD SERVICE EQUIPMENT (SEE SCHEDULE)
11.21	MINI-FRIDGE (OWNER PROVIDED CONTRACTOR INSTALLED
11.22	1.5" WALL CAP, PROVIDED W/ EQUIPMENT
11.32	SMARTBOARD (OWNER PROVIDED CONTRACTOR INSTALLED)
11.61	FUME HOOD
11.62	FLAMMABLE STORAGE CABINET
11.63	ACID STORAGE CABINET
11.64	BEAKER RACK; OWNER PROVIDED CONTRACTOR INSTALLED
22.20	EMERGENCYEYEWASH UNIT
22.22	ACID REDUCER; SEE MECHANICAL
22.23	WASH SINK; SEE PLUMBING

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JASON M KANN KANN HANDER THE BOUTH DANOTE

REVISION SCHEDULE:

02/10/23 ADD 01 ADD 03 02/23/23

PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

ENLARGED PLANS & INTERIOR ELEVATIONS

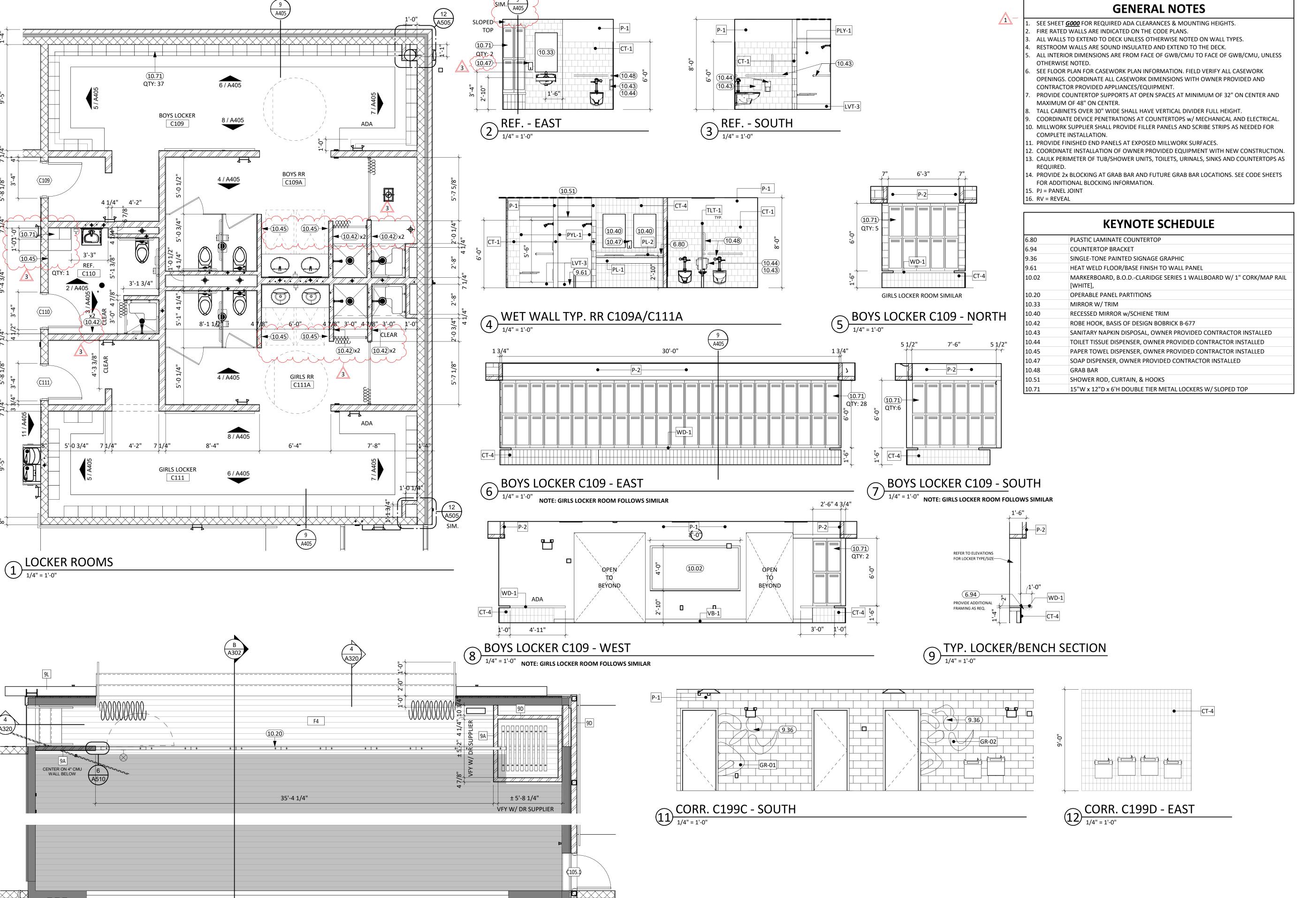
SCIENCE D106 - TEACHING STATION

1/4" = 1'-0"

SS-2

SCIENCE D106 - WEST

1/4" = 1'-0"



ENLARGED STAGE PLAN

1/4" = 1'-0"

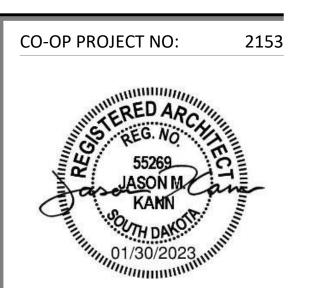
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REVISION SCHEDULE:

REV. # REV. DSC. REV. DATE
1 ADD 01 02/10/23
3 ADD 03 02/23/23

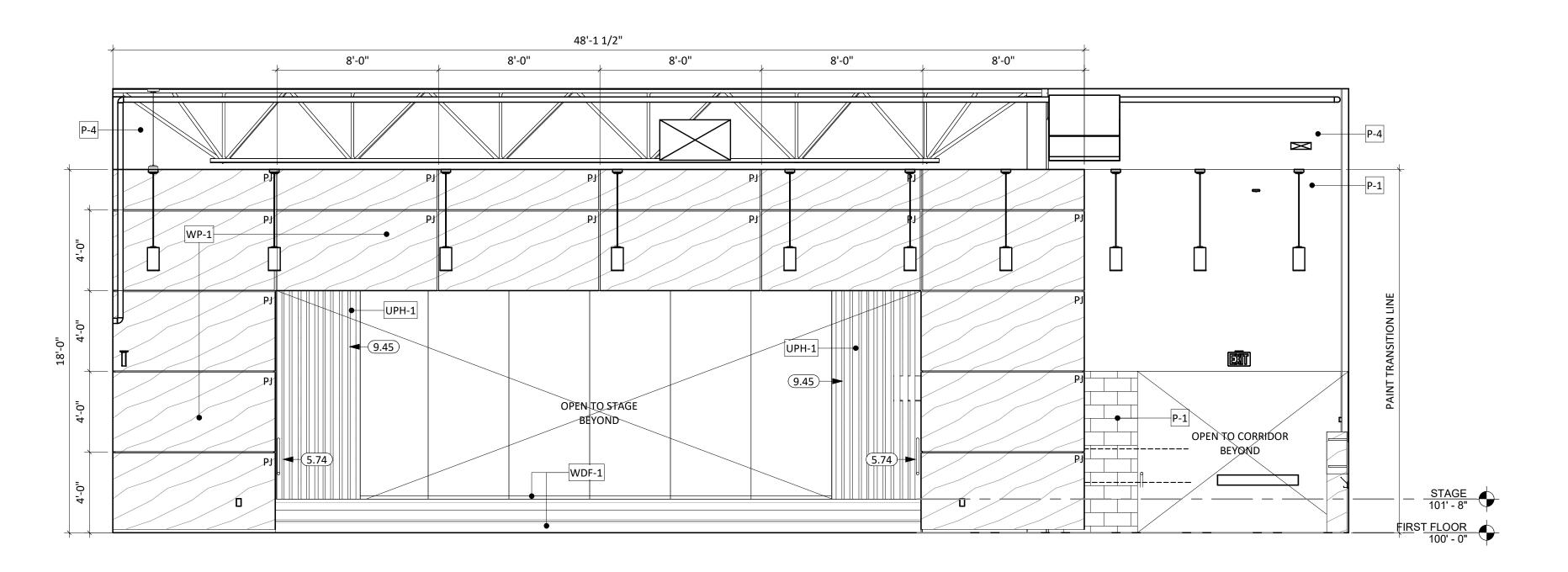
PROJECT:

WILLOW LAKE SCHOOL ADDITION

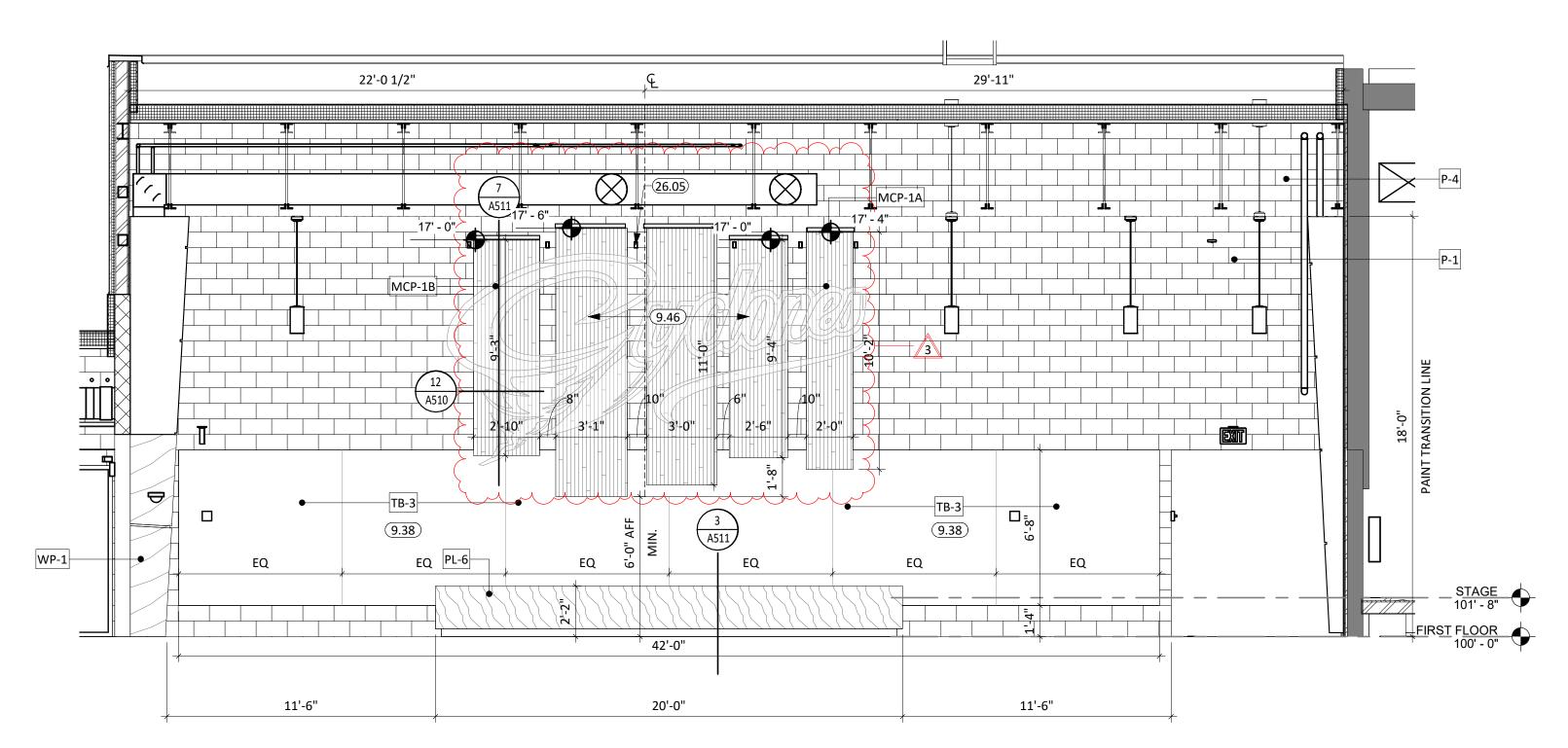
WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

ENLARGED PLANS & INTERIOR ELEVATIONS



1 COMMONS C101 - WEST



2 COMMONS C101 - SOUTH

1/4" = 1'-0"

23 6:35:13 PM



GENERAL NOTES

- . SEE SHEET <u>G000</u> FOR REQUIRED ADA CLEARANCES & MOUNTING HEIGHTS.
 . FIRE RATED WALLS ARE INDICATED ON THE CODE PLANS.
- 3. ALL WALLS TO EXTEND TO DECK UNLESS OTHERWISE NOTED ON WALL TYPES.
- 4. RESTROOM WALLS ARE SOUND INSULATED AND EXTEND TO THE DECK.
- 5. ALL INTERIOR DIMENSIONS ARE FROM FACE OF GWB/CMU TO FACE OF GWB/CMU, UNLESS OTHERWISE NOTED.
- 6. SEE FLOOR PLAN FOR CASEWORK PLAN INFORMATION. FIELD VERIFY ALL CASEWORK OPENINGS. COORDINATE ALL CASEWORK DIMENSIONS WITH OWNER PROVIDED AND CONTRACTOR PROVIDED APPLIANCES/EQUIPMENT.
- 7. PROVIDE COUNTERTOP SUPPORTS AT OPEN SPACES AT MINIMUM OF 32" ON CENTER AND MAXIMUM OF 48" ON CENTER.
- . TALL CABINETS OVER 30" WIDE SHALL HAVE VERTICAL DIVIDER FULL HEIGHT.
- COORDINATE DEVICE PENETRATIONS AT COUNTERTOPS w/ MECHANICAL AND ELECTRICAL.
 MILLWORK SUPPLIER SHALL PROVIDE FILLER PANELS AND SCRIBE STRIPS AS NEEDED FOR COMPLETE INSTALLATION.
- 11. PROVIDE FINISHED END PANELS AT EXPOSED MILLWORK SURFACES.

SPECIALTY CEILING CLOUD

- 12. COORDINATE INSTALLATION OF OWNER PROVIDED EQUIPMENT WITH NEW CONSTRUCTION.

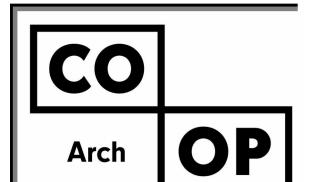
 13. CAULK PERIMETER OF TUB/SHOWER UNITS, TOILETS, URINALS, SINKS AND COUNTERTOPS AS
- 14. PROVIDE 2x BLOCKING AT GRAB BAR AND FUTURE GRAB BAR LOCATIONS. SEE CODE SHEETS FOR ADDITIONAL BLOCKING INFORMATION.
- 15. PJ = PANEL JOINT
- 16. RV = REVEAL

9.45

9.46

KEYNOTE SCHEDULE
NDRAIL (MATCH GUARDRAIL PROFILE & FINISH) (SEE ARCH. & STRUCT.)
ALLCOVERING WRAPPED 5/8" X 60" (MIN) CORK BOARD
ED VELOUR CURTAIN PANELS
B" ACRYLIC DIMENSIONAL SIGNAGE ON STRUCTURAL HIDDEN STAND-OFF(S)
DUNTED @ OPENINGS BETWEEN METAL WALL PANELS. FLOAT CYCLONE-LOGO
SCALE DOWN, AS NEEDED

G.C. TO COORDINATE LINEAR PENDANT INSTALLATION SIMULTANEOUS WITH

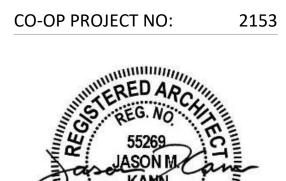


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REVISIO	N SCHEDULE:	
REV.#	REV. DSC.	REV. DA
1	ADD 01	02/10/
3	ADD 03	02/23/

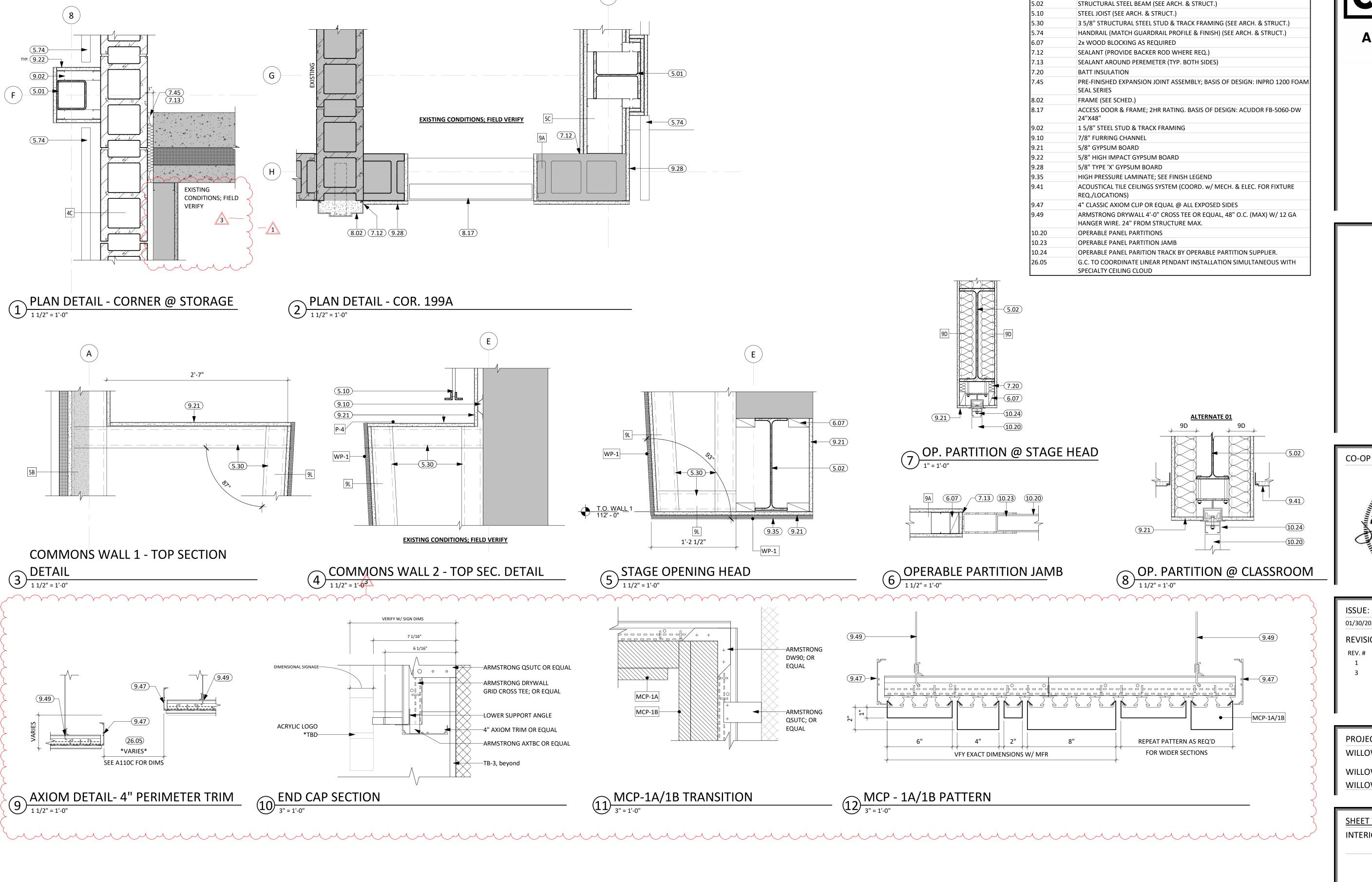
PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

ENLARGED PLANS & INTERIOR ELEVATIONS



4

KEYNOTE SCHEDULE

STRUCTURAL STEEL COLUMN (SEE ARCH. & STRUCT.)

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CO-OP PROJECT NO: 2153

as JASON M Cane

01/30/2023 CONSTRUCTION DOCUMENTS

02/10/23

02/23/23

REVISION SCHEDULE:

ADD 01 ADD 03

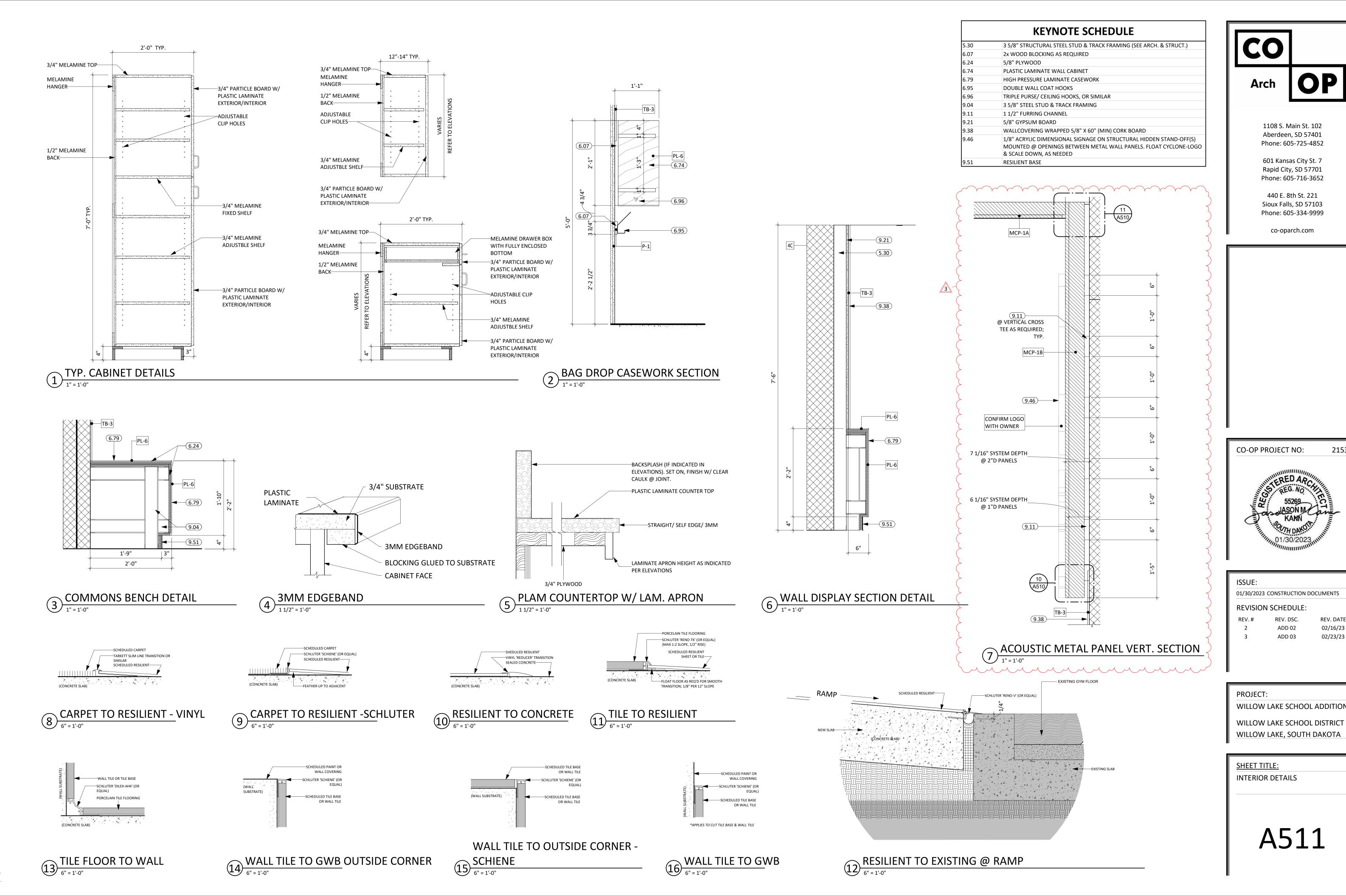
PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

INTERIOR DETAILS



2153

02/16/23

02/23/23

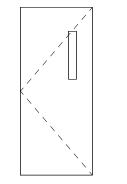
DOOR & FRAME SCHEDULE													
			DOOR			FRA	ME		FRAME DETAILS				
NO.	W	Н	Т	TYPE	MAT'L	TYPE	MAT'L	HEAD	JAMB	SILL	FIRE	HDWRE	ADDITIONAL NOTES
A103.1	3' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-001	НМ	5/A601	5/A601		20MIN	14	
A103A	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-011B	НМ	3/A601 (SIM.)	3/A601(SIM.)			13	
A103B	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-011B	НМ	3/A601 (SIM.)	3/A601(SIM.)			13	
A103C	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-011B	НМ	3/A601 (SIM.)	3/A601(SIM.)			13	
A103D	4' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-001	НМ	5/A601	5/A601			11	
A105	3' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-001	НМ	5/A601 (SIM.)	5/A601 (SIM.)		20MIN	16	
A106	3' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-001	НМ	5/A601 (SIM.)	5/A601 (SIM.)		20MIN	16	
A108.1	3' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-002	НМ	19/A601	19/A601		20MIN	17	
A108.2	6' - 0"	5'-08" '	0' - 0 1/2"	OHC-3	AL	OHC-3	STL	14/A601	17/A601	14/A601	20MIN		
A199	6' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-002	HM	6/A601	6/A601		20MIN	10	
B101.1	3' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-002	HM	20/A601	20/A601		90MIN	15	
B101.1	3' - 0"	7' - 2"	0'-13/4"	NV	WD	HM-001	HM	5/A601	5/A601	1	20MIN	16	
	3' - 0"		-	F		HM-002		<u> </u>	<u>'</u>				
B102		7' - 2"	0' - 1 3/4"	-	WD		HM	20/A601	20/A601		90MIN	23	
B103.1	3' - 6"	7' - 2"	0' - 1 3/4"	NV	WD	HM-001	HM	5/A601	5/A601		20MIN	29	
B103.2	3' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-001	НМ	5/A601	5/A601		20MIN	29	
B103B	3' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-001	НМ	5/A601	5/A601			09	
B103C	3' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-001	НМ	5/A601	5/A601			09	
B104.1	3' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-001	НМ	5/A601	5/A601		20MIN	14	
B104.2	3' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-001	НМ	5/A601	5/A601		20MIN	14	
B105	5' - 0"	7' - 0"	0' - 1 3/4"	F	WD	HM-001	НМ	5/A601	5/A601		20MIN	28	
B107	3' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-001	НМ	5/A601	5/A601		20MIN	14	
B107A	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-001	НМ	5/A601	5/A601			21	
B108	3' - 0"	7' - 2"	0' - 1 3/4"	NV	WD	HM-001	НМ	5/A601 (SIM.)	5/A601 (SIM.)		20MIN	27	
B199A	8' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-004	НМ	6/A601 (SIM.)	6/A601 (SIM.)		90MIN	30	
C100A1	6' - 0"	7' - 0"	3 2 3, 1	SEE ELEV.	AL	SEE ELEV.	AL	SEE ELEV.	SEE ELEV.	SEE ELEV.		04	
C100A2	6' - 0"	7' - 0"		SEE ELEV.	AL	SEE ELEV.	AL	SEE ELEV.	SEE ELEV.	SEE ELEV.		03	
C100A2	6' - 0"	7' - 0"		SEE ELEV.	AL	SEE ELEV.	AL	SEE ELEV.	SEE ELEV.	SEE ELEV.		01	
	6' - 0"	7' - 0"		SEE ELEV.		SEE ELEV.			SEE ELEV.	SEE ELEV.			
C100A4					AL		AL	SEE ELEV.				01	
C100A5	6' - 0"	7' - 0"		SEE ELEV.	AL	SEE ELEV.	AL	SEE ELEV.	SEE ELEV.	SEE ELEV.		02	
C100B1	6' - 0"	7' - 10"		SEE ELEV.	AL	SEE ELEV.	AL	SEE ELEV.	SEE ELEV.	SEE ELEV.		03	
C100B2	6' - 0"	7' - 10"	_	SEE ELEV.	AL	SEE ELEV.	AL	SEE ELEV.	SEE ELEV.	SEE ELEV.		01	
C102	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-011A	HM	3/A601	3/A601			13	
C103	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-011A	HM	3/A601	3/A601			13	
C104	6' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-001	HM	5/A601	5/A601			24	
C105.1	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	HM-002	HM	20/A601 (SIM.)	20/A601 (SIM.)			33	
C106	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-001	HM	5/A601	5/A601			22	
C107	4' - 0"	7' - 10"	0' - 1 3/4"	F	WD	HM-001	HM	5/A601	5/A601			07	
C108	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-001	НМ	5/A601	5/A601			21	
C109	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-001	НМ	5/A601	5/A601			12	
C110	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-001	НМ	5/A601	5/A601			20	
C111	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-001	НМ	5/A601	5/A601			12	
C199A	6' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-002	HM	2/A510	3/A110		90MIN	32	
C199C	8' - 8"	7' - 2"	0' - 1 3/4"	F	WD	HM-004	HM	1/A601 (SIM.)	1/A601 (SIM.)		90MIN	30	
D101	3' - 0"	7 - 2"	0' - 1 3/4"	F	WD	HM-001	HM	5/A601	5/A601		SOIVIIIN	18	
D101 D101.1	20' - 0"	7 - 2 8' - 0"	-	OHC-1		OHC-1	STL	11/A601	<u> </u>			10	
					AL	-			12/A601				
D101.2	7' - 0"	8' - 0"	 0! 12/4"	OHC-2	AL	OHC-2	STL	11/A601	11/A601	0/4604		05	
D101.3	4' - 0"	7' - 10"	0' - 1 3/4"	F	HM	HM-002	HM	10/A601	4/A601	9/A601		05	
D101A	3' - 0"	7' - 0"	0' - 1 3/4"	F _	WD	HM-001	HM	2/A601	2/A601			19	
D102C	3' - 0"	7' - 0"	0' - 1 3/4"	F	WD	HM-001	HM	2/A601	2/A601			25	
D103.1	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-011A	НМ	3/A601	3/A601, 1/A601 (SIM.)			13	
D103.2	3' - 0"	8' - 0"	0' - 1 3/4"	F	WD	SEE ELEV.	НМ	1/A601	1/A601			08	
D103.3	3' - 0"	7' - 0"	0' - 1 3/4"	NV	WD	HM-002	НМ	1/A601	1/A601			13	
D103A	3' - 0"	7' - 2"	0' - 1 3/4"	G	НМ	HM-001	НМ	5/A601	5/A601			13	
D103B1	3' - 0"	7' - 0"	0' - 1 3/4"	F	НМ	HM-002	НМ	1/A601	1/A601	9/A601		06	
D103B2	25' - 0"	16' - 0"	0' - 2 1/8"	OHS-1	STL	OHS-1	STL	15/A601	16/A601				
D103B4	3' - 0"	7' - 0"	0' - 1 3/4"	F	НМ	HM-002	НМ	1/A601	1/A601	9/A601		06	
D103C	3' - 0"	7' - 2"	0' - 1 3/4"	G	HM	HM-001	HM	5/A601	5/A601			21	
D103C	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-011A	HM	3/A601	3/A601			13	
D104 D105	3' - 0"	7 - 2"	0' - 1 3/4"	NV		HM-001	HM	5/A601	5/A601			15	
			•		WD			<u> </u>	<u> </u>	+			
D106	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-011A	HM	3/A601	3/A601			13	
D106A	3' - 0"	7' - 2"	0' - 1 3/4"	F	WD	HM-001	HM	5/A601	5/A601			22	
D199A.1	6' - 0"	7' - 0"		SEE ELEV.	AL	SEE ELEV.	AL	SEE ELEV.	SEE ELEV.	SEE ELEV.		01	
D199A.2	6'-0"	7'-0"		SEE ELEV.	\AL\	SEE ELEV.	/AL/	SEE/ELEV	SEE ELEV.	SEE ELEV.	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	03	
D199B	7' - 8"	7' - 2"	0' - 1 3/4"	NV	HM	HM-002	HM	5/A503	13/A505, 14/A505	1	90MIN	31	

HM-001 FRAME TY 1/4" = 1'-0"	HM-002 YPES	HM-003	HM-004	HM-011A	HM-011B
HOLLOW METAL WRAP AROUND FRAME W/ 2" HEAD	HOLLOW METAL INSET FRAME W/ 2" HEAD	HOLLOW METAL WRAP FRAME W/ 4" HEAD	HOLLOW METAL INSET DOUBLE EGRESS FRAME W/ 2" HEAD	HOLLOW METAL WRAP AROUND FRAME W/ 2" HEAD & 22" SIDELITE	HOLLOW METAL WRAP AROUND FRAME W/ 2" HEAD & 12" SIDELITE

FLUSH DOOR

FLUSH DOOR W/ FULL GLASS

FLUSH DOOR FLUSH DOOR W/ HALF W/ NARROW VISION LITE GLASS

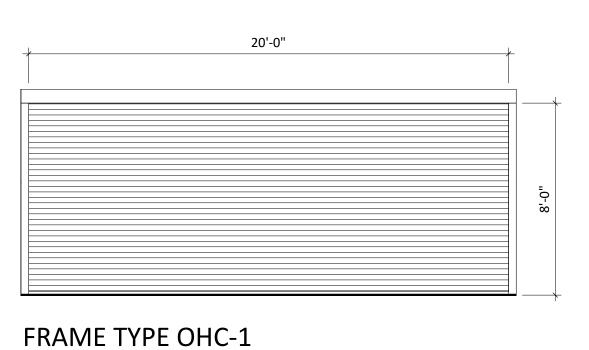


FG **DOOR TYPES**

1/4" = 1'-0"

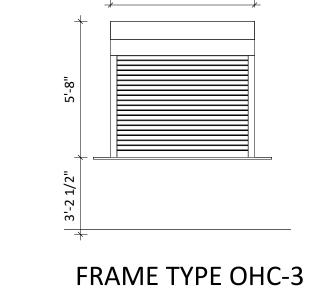
SEE SCHEDULE

FRAME TYPE OHS-1 1/4" = 1'-0"



1/4" = 1'-0"





1/4" = 1'-0"

GENERAL NOTES

- ALL HM FRAMES IN STUD PARTITIONS SHALL BE WRAPPED AROUND BOTH SIDES OF PARTITION UNLESS OTHERWISE NOTED. SEE FLOOR PLAN(S) FOR WALL THICKNESS.
- ALL EXTERIOR FRAMES & DOORS ARE TO BE THERMALLY BROKEN.
- . CAULK ENTIRE PERIMTER OF H.M. FRAMES (BOTH SIDES).

OPENING WHERE APPLICABLE.

- 4. PAINT H.M. FRAMES TO MATCH WALL. SPLIT PAINT COLOR AT DOOR GASKET AS REQUIRED. PROVIDE ROOM SIGNAGE AT ALL DOORS. WHERE MOUNTED TO GLAZING, PROVIDE A BLANK BACK PLATE ON OPPOSIZE SIDE OF GLAZING. SEE CODE STANDARDS FOR MOUNTING HEIGHTS
- AND LOCATIONS. SEE SPECIFICATIONS FOR SPECIAL SIGNAGE REQUIREMENTS. REFER TO WALL TYPES FOR WALL CONSTRUCTION ELEMENTS FOR ALL DOOR AND WINDOW DETAILS. COORDINATE ALL STRUCTURAL REQ. WITH STRUCTURAL DRAWINGS. WALL MOUNTED EXIT SIGNS AND FIXTURES ARE TO BE CENTERED OVER DOOR OR DOOR

KEYNOTE SCHEDULE

CO-OP PROJECT NO:



2153

02/23/23

1108 S. Main St. 102

Aberdeen, SD 57401 Phone: 605-725-4852

601 Kansas City St. 7

Rapid City, SD 57701 Phone: 605-716-3652

440 E. 8th St. 221

Sioux Falls, SD 57103

Phone: 605-334-9999

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ISSUE:

01/30/2023 CONSTRUCTION DOCUMENTS

REVISION SCHEDULE:

ADD 03

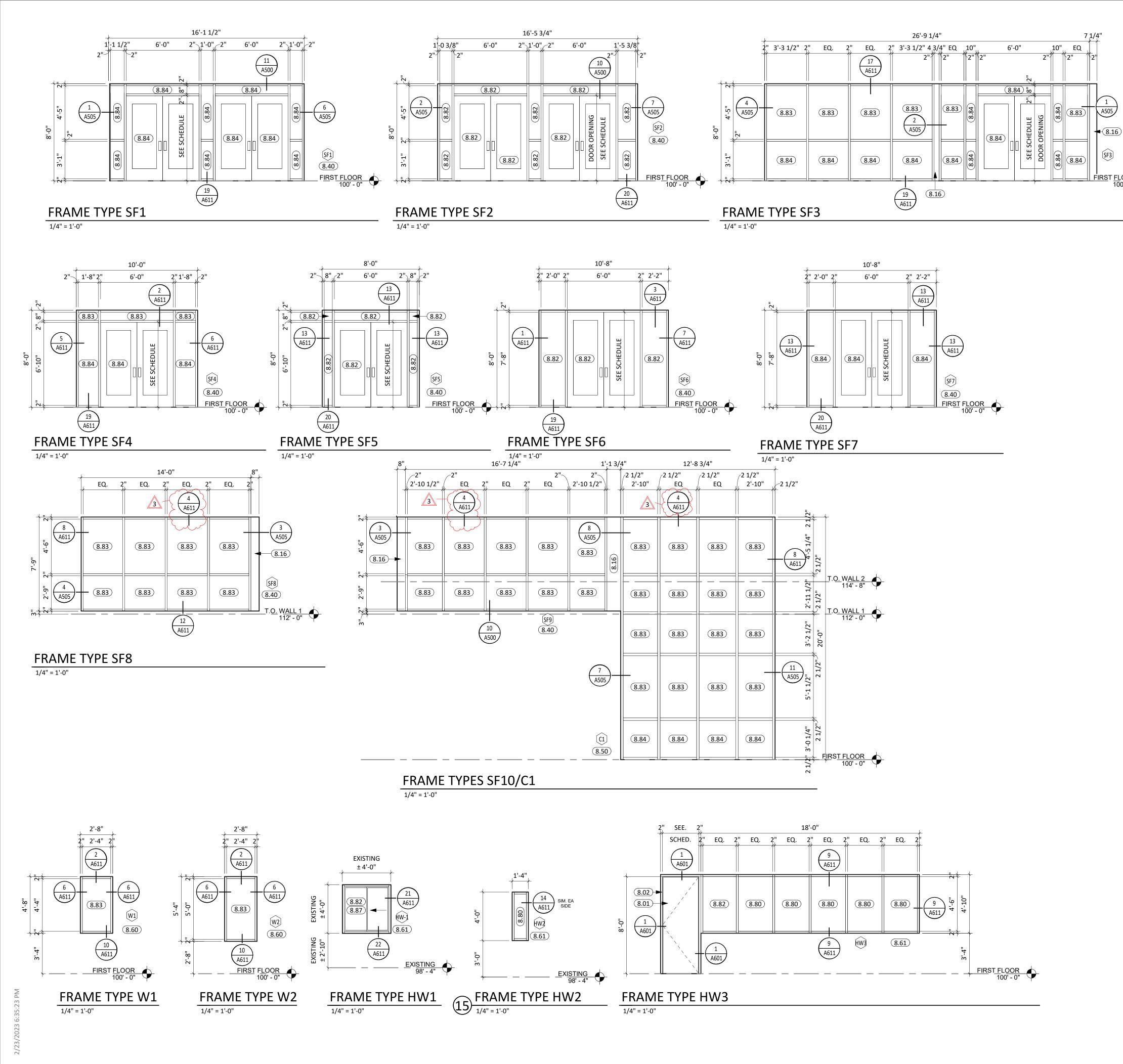
PROJECT:

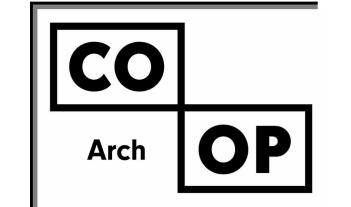
WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

DOOR SCHEDULE & DETAILS





1108 S. Main St. 102 Aberdeen, SD 57401 Phone: 605-725-4852

NOT USED

KEYNOTE SCHEDULE

SINGLE PANEL SLIDING TRANSACTION WINDOW, 1HR RATED

BRAKE METAL; MATCH ALUMINUM FRAME FINISH

ALUMINUM FRAMED ENTRANCE/STOREFRONT

DOOR (SEE SCHED.)

1/4" FLOAT GLASS

1" TEMPERED GLASS
1" INSULATED GLASS

FRAME (SEE SCHED.)

ALUMINUM CURTAIN WALL ALUMINUM WINDOW UNIT

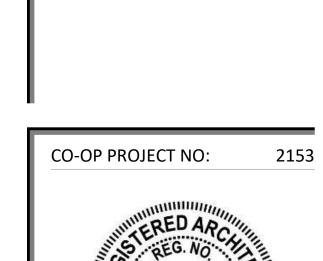
HOLLOW-METAL WINDOW UNIT

1" INSULATED TEMPERED GLASS

601 Kansas City St. 7 Rapid City, SD 57701 Phone: 605-716-3652

440 E. 8th St. 221 Sioux Falls, SD 57103 Phone: 605-334-9999

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REVISION SCHEDULE:

REV. # REV. DSC. REV. DATE
1 ADD 01 02/10/23
3 ADD 03 02/23/23

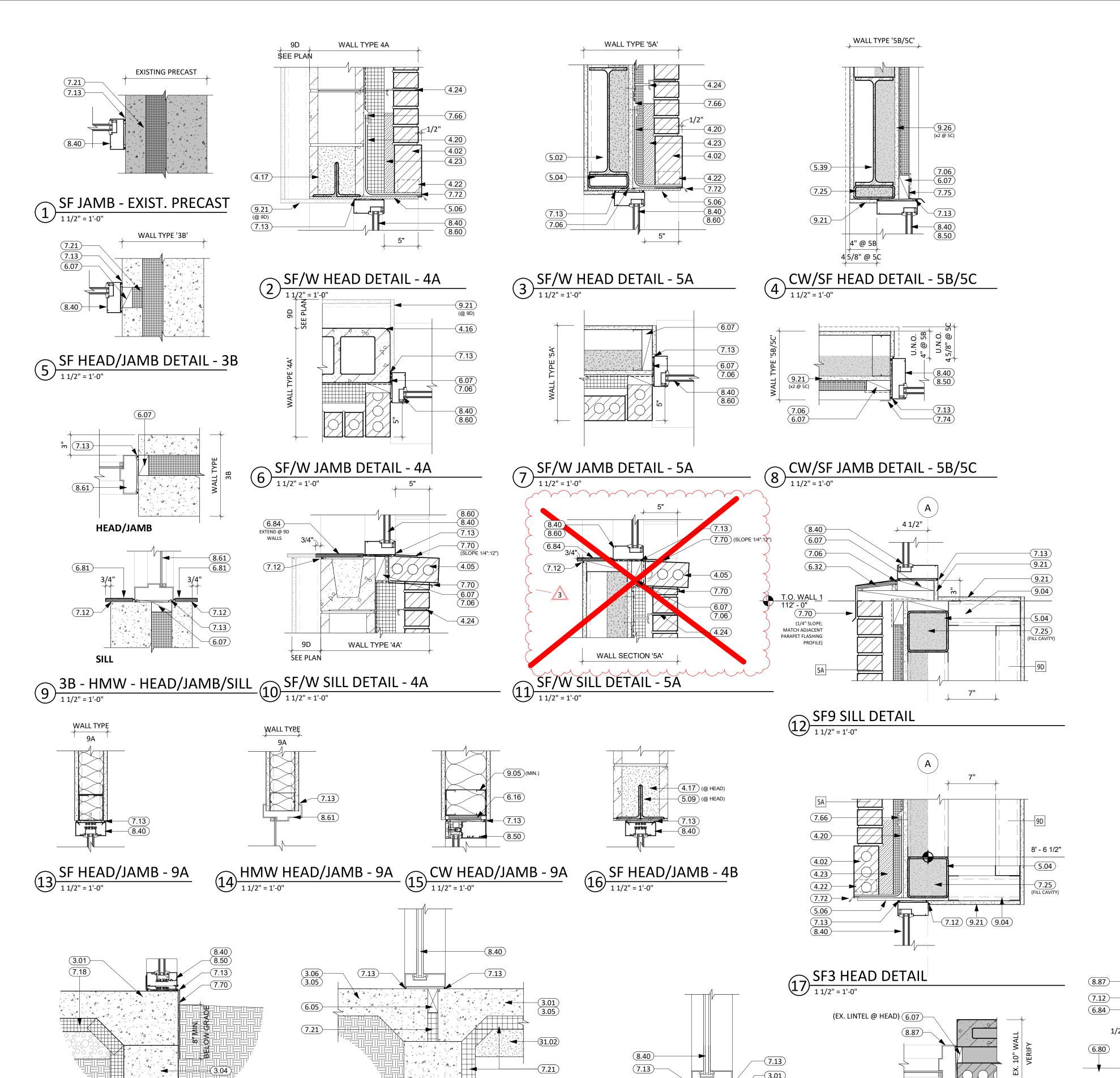
PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

GLAZING ELEVATIONS



3.04

SILL @ INT. SLAB

19 SILL @ STOOP

18 SILL @ GRADE

NOT USED

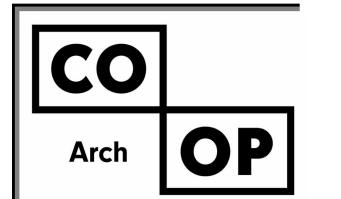
	KEYNOTE SCHEDULE					
3.01	CONC. FLOOR SLAB ON GRADE (SEE STRUCT. FOR THICKNESS AND REINF.) w/ 15 MIL. VAPOR BARRIER BELOW					
3.04	CONT. CONC. FOUNDATION WALL (SEE STRUCTURAL PLANS)					
3.05	THICKENED SLAB					
3.06	CONCRETE STOOP w/FROST FREE FOOTING (SEE STRUCTURAL/LANDSCAPE PLANS)					
4.02	BRICK SOLDIER COURSING; SEE EXTERIOR ELEVATIONS FOR TYPE					
4.05	BRICK-1 ROWLOCK WINDOW SILL (SLOPE AS NEEDED)					
4.16	CMU BULLNOSE CORNER UNIT					
4.17	CMU SOAPBLOCK					
4.20	THRU-WALL FLASHING					
4.22	WEEP VENTS					
4.23	MORTAR NET					
4.24	BRICK WALL TIES					
5.02	STRUCTURAL STEEL BEAM (SEE ARCH. & STRUCT.)					
5.04	STRUCTURAL STEEL TUBE (SEE ARCH. & STRUCT.)					
5.06	STRUCTURAL STEEL PLATE (SEE ARCH. & STRUCT.)					
5.09	STRUCTURAL STEEL LINTLE (SEE ARCH. & STRUCT.)					
5.39	HEADER CONDITION (SEE ARCH. & STRUCT.)					
6.05	DOUBLE SILL PLATE					
6.07	2x WOOD BLOCKING AS REQUIRED					
6.16	ZA TIGOS SEGUINO AO NEGOMES					
6.32	1/2" ROOF SHEATHING					
6.80	PLASTIC LAMINATE COUNTERTOP					
6.81	SOLID SURFACE					
6.84	SOLID SURFACE WINDOW SILL					
7.06	WRAP VAPOR BARRIER INTO WINDOW OPENING					
7.12	SEALANT (PROVIDE BACKER ROD WHERE REQ.)					
7.13	SEALANT AROUND PEREMETER (TYP. BOTH SIDES)					
7.18	2" RIGID INSULATION. INSULATION IS CONTINUOUS FROM TOP OF FOOTING TO 24" INTO BUILDING UNDER FLOOR SLAB AS INDICATED.					
7.21	RIGID INSULATION					
7.25	SPRAY APPLIED FOAM INSULATION (3" MIN.)					
7.66	TERMINATION BAR AND HIGH GRADE SEALANT					
7.70	PRE-FINISHED SHEET METAL FLASHING					
7.72	PRE-FINISHED METAL DRIP EDGE					
7.74	PRE-FINISHED J-CHANNEL					
7.75	PRE-FINISHED SILL FLASHING PER METAL PANEL MFR					
8.40	ALUMINUM FRAMED ENTRANCE/STOREFRONT					
8.50	ALUMINUM CURTAIN WALL					
8.60	ALUMINUM WINDOW UNIT					
8.61	HOLLOW-METAL WINDOW UNIT					
8.87	SINGLE PANEL SLIDING TRANSACTION WINDOW, 1HR RATED					
9.04	3 5/8" STEEL STUD & TRACK FRAMING					
9.05	6" STEEL STUD & TRACK FRAMING					
9.21	5/8" GYPSUM BOARD					
9.26	5/8" EXTERIOR GYPSUM SHEATHING					
31.02	DRAINAGE FILL (COORD. REQ. w/ SOILS REPORT)					

EX. 10" WALL
VERIFY

HM-1 SILL

1 1/2" = 1'-0"

21 HM-1 HEAD/JAMB
1 1/2" = 1'-0"



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CO-OP PROJECT NO: 2153

CO-OP PROJECT NO: 2153

Solve Day Office Report No. 11 Project No. 11 Pr

ISSUE:
01/30/2023 CONSTRUCTION DOCUMENTS

 REVISION SCHEDULE:

 REV. #
 REV. DSC.
 REV. DATE

 1
 ADD 01
 02/10/23

 3
 ADD 03
 02/23/23

PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKE SCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

GLAZING DETAILS

Addendum No. ME-2

To Mechanical & Electrical Plans and Specifications:

Willow Lake School Addition Willow Lake, South Dakota

Addendum Dated: February 23, 2023

Original Plans & Specifications Dated: January 30, 2023

SCOPE OF THIS ADDENDUM: The following becomes part of the original plans and specifications, taking precedence over the items that may conflict. The bidder shall note receipt and make acknowledgement of the addendum on the bid form, incorporating its provision in the bid.

PLAN AND SPECIFICATION CHANGES AND CLARIFICATIONS:

- 1. EM100 Add "MON" Definition to Electrical Legend
- 2. EM101 Update Ag Shop Temporary Feeds.
- 3. M202C Delete reinstallation of existing lavs.
- 4. M402C Delete reinstallation of existing lavs.
- 5. M502C Delete reinstallation of existing lavs.
- 6. M904 Revisions to rooftop unit schedule & hydronic expansion tank schedule.
- 7. E200A Remove demolition of IT Room Lighting
- 8. E202CD Remove demolition of Server Room Lighting
- 9. E203E Add Demolition of Power Curtain Divider.
- 10. E300A Add power for PA Speaker Controllers.
- 11. E301B Add power for PA Speaker Controllers and Heat Tape in downspouts.
- 12. E302C Add power for PA Speaker Controllers and Heat Tape in downspouts.
- 13. E303D Add power for PA Speaker Controllers.
- 14. E400A Remove new lights from IT Room.
- 15. E402C Add switching for existing stage lighting, remove new lights from Server Room 220.
- 16. E500A Add New PA Speaker System.
- 17. E501B Add New PA Speaker System.
- 18. E502C Add New PA Speaker System.
- 19. E503D Add New PA Speaker System.
- 20. Specification Section 27 5123 School Paging and Intercom Replace

2.1 Manufactures

A. The Existing system is Visiplex Model Alertwave. New Components shall be an extension of the existing system.

2.3 Equipment

- A. Controller: Model # VNS2210 with VNS2281 optional second speaker
- B. ACT Ceiling Speaker: Model # VNS2081
- C. Ag Shop, and Commons Speakers: Model # VNS2083
- D. ACT Combination Units: Model # VNS2214-1 include second speaker option VNS2281
- E. Exterior Horn for Playground: Model # VNS2087

APPROVED EQUALS:

The following list of equipment manufacturers shall be added to the approved equals listed on the plan sheet schedules and considered as approved equals subject to meeting all requirements of the plans and specifications – final acceptance subject to shop drawing approval.

- 1. Packaged Rooftop Unit Single Zone VAV: Greenheck, Lennox
- 2. Packaged Rooftop Unit VAV Greenheck, Lennox
- 3. Ductless Split System: Lennox
- 4. PVC Coated Fume Exhaust Duct: SPOT
- 5. Fan Coil with DX Cooling and Hot Water Heat: IEC
- 6. Air Cooled DX Condensing Unit: Lennox
- 7. Air Cleaner: CAMfil
- 8. Registers, Grilles, Diffusers: Greenheck
- 9. Shutoff VAV Terminal Units: Carrier, Price, Krueger, Nailor, Trane, Tuttle & Bailey, Titus, JCI, Greenheck
- 10. Optical Cable Corporation (OCC)
- 11. Apex Technology Sales Signamax, Proterial Cable, RXL
- 12. Ban-Koe Companies Telecor
- 13. Hubble Premise Wiring

Sichmeller Engineering (605) 225-4344

Attachments: EM100 – Motor Schedule, Legends & Sheet Index

EM101 – Electrical & Mechanical Site Plan

M202C – Area C – Plumbing & Hydronics Demolition Plan

M402C – Area C – Below Grade Plumbing & Hydronics Plan

M501B - Area B - Above Grade Plumbing & Hydronics Plan

M502C - Area C - Above Grade Plumbing & Hydronics Plan

M904 – Mechanical Schedules

E200A – Area A – Electrical Demolition Plan

E202CD - Area C&D - Electrical Demolition Plan

E203E – Area E – Electrical Demolition Plan

E300A – Area A – Power & Data Plan

E301B – Area B – Power & Data Plan

E302C – Area C – Power & Data Plan

E303D – Area D – Power & Data Plan

E400A – Area A – Lighting Plan

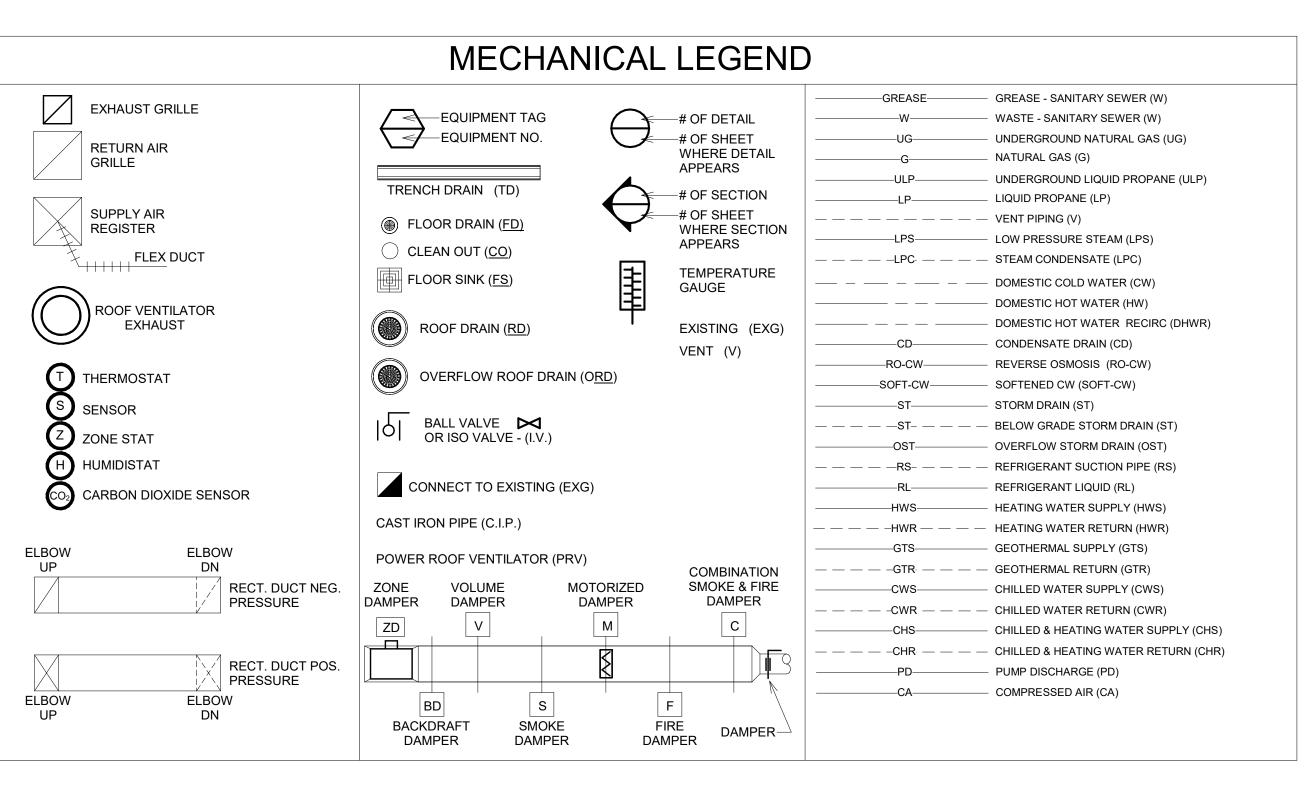
E402C – Area C – Lighting Plan

E500A – Area A – Special Systems Plan

E501B – Area B – Special Systems Plan

E502C – Area C – Special Systems Plan

E503D – Area D – Special Systems Plan



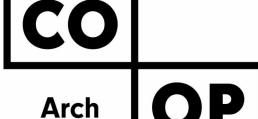
		EL	ECTRICAL LEGEND		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
\$ \$ 3	SINGLE POLE SWITCH THREE WAY SWITCH FOUR WAY SWITCH	##	LIGHTING FIXTURE E = EMERGENCY BALLAST NL = NIGHT LIGHT ## = FIXTURE ID TAG a,b = CNTRL/RELAY ID TAG	S _{FA}	SMOKE DETECTOR CEILING SPEAKER FIRE ALARM HEAT DETECTOR (FT = FIXED TEMPERATURE) MANUAL PULL STATION
\$4 \$LV	LOW VOLTAGE PUSH BUTTON SWITCH	a,b	UNDER CABINET FIXTURE		SPEAKER/STROBE HORN/STROBE
^{\$} D	DIMMER SWITCH	ф-	WALL MOUNTED FIXTURE	**	STROBE ONLY
^{\$} т ^{\$} о	TIMER SWITCH OCCUPANCY SENSOR		RECESSED FIXTURE	FACP	FIRE ALARM CONTROL PANEL FIRE ALARM ANNUNCIATOR PANEL
\$ _P	PILOT LIGHT SWITCH	PC Y	PHOTO CONTROL	TS	TAMPER SWITCH
^{\$} K ^{\$} F	KEYED SWITCH VARIABLE SPEED FAN SWITCH		SECURITY CAMERA WALL SPEAKER	FS	FLOW SWITCH
OS1	OCCUPANCY SENSOR - CEILING MOUNTED		EXIT FIXTURE	REC	BEAM TRANSMITTER BEAM RECEIVER
PR	POWER PACK FOR LOW VOLTAGE OCCUPANCY SENSOR		EMERGENCY WALL PACK	SD	SMOKE DAMPER
Ф Ф	DUPLEX RECEPTACLE GROUND FAULT CIRCUIT INTERRUPTER	(C)-	CLOCK (PROVIDE CLOCK RECEPTACLE CONN. TO ROOM BRANCH CIRCUIT)	MD	MOTORIZED DAMPER
" ⊕ _{D1}	DUPLEX RECEPTACLE DROP CORD RECEPTACLE (SEE DETAILS)	D	NURSE CALL PULL STATION NURSE CALL DUTY STATION	DSD	DUCT SMOKE DETECTOR DOOR STRIKE
P	250V 4-WIRE RECEPTACLE	N	NURSE CALL CORRIDOR LIGHT	CR	CARD READER/KEYPAD
•	DOUBLE DUPLEX RECEPTACLE	NCCP	NURSE CALL CONTROL PANEL		DISCONNECT (F = FUSED)
•	TOP SWITCHED DUPLEX RECEPTACLE SPECIAL OUTLET		THERMOSTAT INTERCOM SPEAKER	R	COMBINATION STARTER RELAY
R	DATA/PHONE OUTLET	Н	INTERCOM CALL STATION	*	CONNECT TO EXISTING
54" ▽	"R" INDICATES ROUGH-IN ONLY WALL PHONE OUTLET	J	JUNCTION BOX	VFD	VARIABLE FREQUENCY DRIVE
A	CEILING DATA/PHONE OUTLET	TC	TIME CLOCK	WM WP	SURFACE MOUNTED RACEWAY (WIREMOLD) WEATHER PROOF
	FLOOR BOX WITH POWER AND DATA	T	VOLUME CONTROL TRANSFORMER	AC UC	ABOVE COUNTER UNDER COUNTER
O	FLOOR BOX WITH POWER ONLY		CABLE TV - ONE CAT6 & ONE COAX CABLE	UPS EXG	UNINTERRUPTIBLE POWER SUPPLY EXISTING EXISTING
\$ M	MANUAL MOTOR STARTER MOTOR CONNECTION	DH	DOOR HOLDER	MON	MONITOR SEE ARCHITECTURAL ELEVATIONS TOGGLE MOTOR PATER SWITCH

TOGGLE MOTOR RATED SWITCH

			H'	VAC	FQ	UTP	MEN	IT	CO	ORI	DTNAT	гто	N 8	& N	иот	OR	SC	CHE	DULE				E.C. = ELECTRICAL CONTRACTOR P.C. = PLUMBING CONTRACTOR
				E			POWE	R 60		STARTE		CONTR			TCH IN			I	DISCONNECT				V.C. = VENTILATION CONTRACTOR T.C. = TEMPERATURE CONTROL CONTRACTOR
EQUIPMENT NUMBER	JSF.	LOGATION	FIRE ALARM INTERLOCK REQUIRED	HP OR WATTAGE (KW) OR FRACTIONAL (MCA	FLA	VOLTAGE	PHASE	TYPE	SIZE	BY BY	WIRING	TEMPERATURE CONTROL WIRING	THERMOSTAT BY	AQUASTAT BY	SPEED SELECT SWITCH BY	TIME CLOCK BY	ВУ	SIZE/TVPE/FUSE SIZE	NEMA CIRCUIT	CONDUIT SIZE	CONDUCTOR SIZE	NOTES
RTU-7	HVAC - EXG 1968 GYM & STAGE C105 WITH GAS HEAT	NEW ADDITION ROOF	Y	15	178.3		208	3	VFD		VC TC		TC	TC				vc		MDPS-1,3,	5 2"	3/0	DUCT SMOKE DETECTOR SHUTDOWNS BY EC; T-STAT/CO2/HUMIDITY SPACE SENSOR CONTROL; FACTORY INSTALLED VFD
RTU-8	HVAC - CLASS ROOM ADDITION VAV TERMINALS	NEW ADDITION ROOF	Υ	20	223.2		208	3	VFD		VC TC		TC					vc		MDPS-7,9,1	1 2 1/2"	#300	DUCT SMOKE DETECTOR SHUTDOWNS BY EC; CO2/HUMIDITY SENSORS IN RA DUCT; FACTORY INSTALLED VFDS
RTU-9	HVAC - SHOP WITH GAS HEAT	NEW ADDITION ROOF	Υ	3	75.6		208	3	VFD		VC TC		TC	TC				VC		L7-1,3,5	1 1/4"	#3	DUCT SMOKE DETECTOR SHUTDOWNS BY EC; T-STAT/CO2/HUMIDITY SPACE SENSOR CONTROL;
RTU-10	HVAC - AREA B REMODEL VAV TERMINALS	EXG ROOF	Υ	5	83.1		208	3	VFD		VC TC		TC					vc		MSWB	1 1/4"	#2	FACTORY INSTALLED VFD DUCT SMOKE DETECTOR SHUTDOWNS BY EC; CO2/HUMIDITY SENSORS IN RA DUCT; FACTORY INSTALLED VFDS
VAV-218	HVAC - COUNC 218 HVAC - MUSIC OFFICE B101 & STORAGE	SEE PLAN									тс	+	TC	TC									,
VAV-B101 VAV-B103	B102 HVAC - MUSIC B103	SEE PLAN									TC TC		TC	TC									
VAV-B103B VAV-B104A	HVAC - BAND STORAGE B103A, PRACTICE B103B & B103C HVAC - FLEX CLASS B104	SEE PLAN									TC TC		TC	TC									
VAV-B104B VAV-B106	HVAC - FLEX CLASS B104	SEE PLAN									TC TC		TC TC	TC									
VAV-B107A VAV-B107B	HVAC - FLEX CLASS B107 & ART STORAGE B107A HVAC - FLEX CLASS B107	SEE PLAN									TC TC	+	TC TC	TC TC									
VAV-B108	HVAC - 1 ON 1 B108	SEE PLAN									тс		TC	TC									
VAV-B199A VAV-B199B	HVAC - CORRIDOR B199A & CORRIDOR 223	SEE PLAN									TC TC	+	TC	TC									
VAV-C101 VAV-C102	HVAC - COMMONS C101	SEE PLAN									TC TC	+	TC TC	TC TC									
VAV-C103 VAV-C107	HVAC - CLASSROOM C103	SEE PLAN									TC TC	+	TC TC	TC TC									
VAV-C109	HVAC - GYM STOR. C108, BOYS C109	SEE PLAN									TC		TC	TC									
VAV-C199	HVAC - REF. C110, CORRIDOR C199C	SEE PLAN									тс		тс	TC									
VAV-D101 VAV-D103	HVAC - KITCHEN D101	SEE PLAN									TC TC	+	TC	TC									
VAV-D103A VAV-D104	HVAC - OFFICE D103A HVAC - FACS D104	SEE PLAN									TC	+	TC	TC TC									
VAV-D105 VAV-D106	HVAC - WORKROOM D105	SEE PLAN									TC TC	+	TC TC	TC TC									
VAV-D106A VAV-D199	HVAC - SCIENCE PREP. D106A HVAC - CORRIDORS D199A & B, GIRLS	SEE PLAN									тс		TC TC	TC TC									
DSA-10A	D102A, BOYS D102B DUCTLESS SPLIT SYSTEM HEAT PUMP INDOOR UNIT - SM GROUP A103A	SEE PLAN		(F)		0.3	208	1			vc	+	VC	vc				EC		FROM DSC-10	1/2"	(5) #12	
DSA-10B DSA-10C	DUCTLESS SPLIT SYSTEM HEAT PUMP INDOOR UNIT - SPEECH A103B DUCTLESS SPLIT SYSTEM HEAT PUMP INDOOR UNIT - 0T/PT A103C	SEE PLAN		(F)		0.3	208	1			vc vc	+	VC VC	vc vc				EC EC		FROM DSC-10 FROM DSC-10	1/2"	(5) #12 (5) #12	
DSA-10D DSA-11A	DUCTLESS SPLIT SYSTEM HEAT PUMP INDOOR UNIT - CORRIDOR A199 DUCTLESS SPLIT SYSTEM HEAT PUMP	SEE PLAN		(F)		0.3	208	1			vc vc	+	VC VC	vc vc				EC EC		FROM DSC-10 FROM	1/2"	(5) #12 (5)	
DSA-11B	INDOOR UNIT - SM GROUP A105 DUCTLESS SPLIT SYSTEM HEAT PUMP INDOOR UNIT - SPEECH A106 AIR COOLED CONDENSING UNIT	SEE PLAN		(F)		0.3	208	1			vc	VC	VC	vc				EC		DSC-10 FROM DSC-10 FROM	1/2"	#12 (5) #12 (5)	
DSC-10	FOR DSA-11A/B	EXISTING ROOF			26.0	12.2	208	1			vc vc	+	VC					EC EC		DSC-11 FROM DSC-11	3/4"	(5) #12 (5) #12	
FC-A101	HEATING & VENTILATION - WORK ROOM A101, 1 ON 1 266, SPED 244 & SPED 245 24V MOTORIZED DAMPERS FOR FC-A101	WORK ROOM A101		1/4	2.5	2.0	120	1			TC TC	-	TC TC	TC				vc		A-16	3/4"	#12	LOW VOLTAGE CONTROLS
FC-A103	OUTSIDE AIR & RETURN AIR HVAC - ELEM. FLEX A103	SEE PLAN		1/2	9.63	7.70	120	1			тс	+	TC					VC		L1-15/1	3/4"	#12	
CU-A103 EF-6	AIR COOLED CONDENSING UNTI - FC-A103 EXHAUST - STORAGE C104, GYM STOR. C108, BOYS C109, REF. C110, GIRLS	EXISTING ROOF NEW ROOF		1/3	21.4	7.2	120	1			TC TC		TC					EC VC	60/F/35	L1-40/1	3/4"	#10	
EF-7	C111 GREASE EXHAUST - KITCHEN D101	NEW ROOF		1		4.6	208	3			EC	EC	TC					vc		LK-34,36	3/4"	#12	EC TO WIRE TO INTEGRAL SWITCH ON HOOD, MONITORED BY TC; EC TO CONNECT TO ANSUL SYSTEM
EF-8	CONDENSATE EXHAUST - KITCHEN D101	NEW ROOF		1/8		3.8	120	1			EC		TC					VC		LK1-19	3/4"	#12	LIGHTED PILOT SWITCH BY EC, MONITORED BY TC
EF-9 EF-10	EXHAUST - RESTROOM D101A EXHAUST - GIRLS RR D102A, CUST. D102C, BOYS RR D102B, CHASE ENCLOSURE	RESTROOM D101A		(F)		3.8	120	1			TC		TC					vc		LK1-21	3/4"	#12	ENABLED WITH LIGHTS BY EC
EF-11	EXHAUST - FACS D104	NEW ROOF		1/2		9.8	120	1			тс		TC					vc		L5-24	3/4"	#10	MANUAL OVERRIDE TIMER SWITCH BY TC; TC TO MAINTAIN NEGATIVE PRESSURE IN COMMON EXHAUST DUCT
EF-12 EF-13	EXHAUST - WORKROOM D105	WORKROOM D105		(F)		0.52	120	1			EC TC	+	тс				EC	vc vc	INTEGRAL PLUG	L6-13	3/4"	#12	TIMER SWITCH BY EC
EF-14	EXHAUST - SCIENCE PREP D106A EXHAUST - SCIENCE D106	NEW ROOF		1/4		5.8	120	1			EC	+	TC					vc		L6-29	3/4"	#12	LIGHTED PILOT SWITCH BY EC,
EF-15	EXHAUST - SCIENCE D106 FUME HOOD	NEW ROOF		1/2		9.8	120	1			EC	EC	TC					EC	20/NF	L6-29	3/4"	#12	EC TO WIRE TO INTEGRAL SWITCH ON HOOD BY GC, MONITORED BY TC LIGHTED PILOT SWITCH BY TC; GAS
EF-16	EXHAUST - AG SHOP D103B	NEW ROOF		1		4.6	208	3	VFD		тс тс	EC	TC					vc		L8-41,43 45	3/4"	#12	DETECTION SYSTEM PROVIDED & INSTALLED BY TC; VFD PROVIDED BY TC, INSTALLED BY EC
EF-17 EF-18	EXHAUST - WORK ROOM A101 EXHAUST - BOYS A102 & GIRLS A103	WORK ROOM A101		(F)		0.52	120	1			EC TC	+-	TC				EC	vc vc	INTEGRAL PLUG	A-19 A-21	3/4"	#12	TIMER SWITCH BY EC
EF-19	EXHAUST - WELDING HOODS	NEW ROOF		2		7.5	208	3	VFD		тс тс	EC	TC					vc		L7-37,39,4	1 3/4"	#12	LIGHTED PILOT SWITCH BY TC; VFD FURNISHED BY TC, INSTALLED BY EC
EF-20	EXHAUST - AREA A BUILDING RELIEF	EXG ROOF		2		7.5	208	3	VFD		тс тс	EC	TC					vc		L1-43,45,4	3/4"	#12	VFD FURNISHED BY TC, INSTALLED BY EC; TC TO MODULATE BASED ON BUILDING PRESSURE
EF-21	EXHAUST - AREA B&C CHASE ENCLOSURE	EXG ROOF		1/30		3.0	120	1			тс		TC	TC				vc		EXT 98 - 20/1	3/4"	#12	TATEODAL OWITCH CONTROL AND WALL
EF-A'S	RANGEHOOD EXHAUST	FACS D106		(F)		1.8	120	1			EC	EC						vc		MULTIPLE SEE PLANS	3/4-	#12	INTEGRAL SWITCH CONTROL, ADA WALL SWITCH CONTROL BY EC WHERE SPECIFIED EC TO WIRE LIGHTING TO INTEGRAL SWITCH ON HOOD, EC TO CONNECT TO
HD-1	KITCHEN GREASE HOOD KITCHEN DISHWASHER CONDENSATE HOOD	KITCHEN D101										_								LK-13	3/4"	#12	SWITCH ON HOOD; EC TO CONNECT TO ANSUL SYSTEM
	AIR COMPRESSOR - AG SHOP D103B	AG SHOP D103B MEZZANINE AG SHOP D103B		5 (F)		16.7	208	3										EC EC		L7-27,29,3	3/4"	#8	VERIFY CONNECTION TYPE CORD CONNECTED
DC-1	DUST COLLECTOR - AG SHOP D103B	MEZZANINE AG SHOP D103B		1-1/2		11.0	120	1										EC		TBD	3/4"	#12	CORD CONNECTED
AC-1	AIR CLEANING - AG SHOP D103B	AG SHOP D103B		3/4	12.8	10.2	120	1				_						EC EC		L8-40	3/4"	#12	
AC-2 AC-3	AIR CLEANING - AG SHOP D103B	AG SHOP D103B		3/4	12.8	10.2	120	1					TO	TC				EC		L8-42	3/4"	#12	
RP	SUPPLEMENTAL HEAT - BOYS RR C109A SUPPLEMENTAL HEAT - GIRLS RR C111A	BOYS RR C109A GIRLS RR C111A											TC	TC									
RAD-7I RAD-7I	SUPPLEMENTAL HEAT - BOYS A102A SUPPLEMENTAL HEAT - GIRLS A102B	BOYS A102A GIRLS A102B											TC	TC									
RAD-6I RAD-4I	SUPPLEMENTAL HEAT - VESTIBULE A103D SUPPLEMENTAL HEAT - RESTROOM D101A	VESTIBULE A103D RESTROOM D101A										-	TC TC	TC TC									
CUH-C100A	SUPPLEMENTAL HEAT - VESTIBULE C100A SUPPLEMENTAL HEAT - VESTIBULE C100B	VEST. C100A VEST. C100B	-	1/6		2	120 120	1				-	TC TC	TC				EC EC	20/TGL 20/TGL	M-2 L4-12	3/4"	#12	
CUH-D100 B-1	SUPPLEMENTAL HEAT - VESTIBULE D100 NATURAL GAS FIRED NEAR CONDENSING	VEST. D100		1/10		1.7	120	1				-	TC TC	TC				EC EC	20/TGL	L6-31 M-3	3/4"	#12	EMERGENCY DOTLED CHITTONIA 2V.5-
B-1 B-2 EXG	BOILER - ADDITION NATURAL GAS FIRED NEAR CONDENSING BOILER - ADDITION RELOCATED NATURAL GAS FIRED HOT	BOILER C107		2			480	3					TC					EC		M-5	3/4"	#12	EMERGENCY BOILER SHUTDOWN BY EC; TC TO CONTROL BOILER & ASSOCIATED CIRCULATOR RELOCATED FROM CUSTODIAN; STORAGE
WH-1	RELOCATED NATURAL GAS FIRED HOT WATER 140°F - HOT WATER HEATER NATURAL GAS FIRED HOT WATER 140°F - HOT WATER HEATER	BOILER C107		(F) (F)			120	1				\vdash						EC EC	20/TGL 20/TGL	M-6 M-7	3/4"	#12	TEMP 140°F STORAGE TEMP 140°F
CP-1	DIGITAL WATER MIXING VALVE BOILER B-1 CIRCULATOR	BOILER C107		(F)		6.6	120 208	1										EC	20/TGL	M-7	3/4"	#12	PLUG & GFCI RECEPTACLE BY EC; PC TO SET TO 120°F OUTPUT COMBINATION STARTER BY EC
CP-2	BOILER B-2 CIRCULATOR PRIMARY PUMP HEATING - ADDITION &	BOILER C107		1-1/2		6.6	208	3			T2									M-18,20,2	2 3/4"	#12	COMBINATION STARTER BY EC VFD FURNISHED BY T.C INSTALLED
CP-3	FUTURE BACKUP PUMP HEATING - ADDITION & FUTURE	BOILER C107		7-1/2		24.2	208	3	VFD		TC TC									M-13,15,1		#10	BY E.C. VFD FURNISHED BY T.C INSTALLED BY E.C.
EXG CP-5 CP-6	RELOCATED EXG WH-1 DOMESTIC HOT WATER RECIRC - 120°F DOMESTIC HOT WATER RECIRC - 120°F	BOILER C107		1/6		2.0	120 120	1				 			PC PC		PC PC			M-8 M-10	3/4"	#12	GFCI OUTLET, CORD CONNECTED, TIMER/AQUASTAT CONTROL GFCI OUTLET, CORD CONNECTED, TIMER/AQUASTAT CONTROL
WIF CU	AIR COOLED CONDENSER - WALK IN FREEZER	NEW ROOF				11.6	208	1										EC		LK-15,17		#10	CAMBULIONOVIOLINI VONINUL
WIF EVAP	EVAPORATOR - WALK IN FREEZER AIR COOLED CONDENSER - WALK IN	WIF				9.8	208	1				-						EC EC		LK-33,35		#10	
WIC EVAP	COOLER EVAPORATOR - WALK IN COOLER DOMESTIC WATER SOFTENER - DOMESTIC	WIC				1.6	120	1										EC		LK-41	3/4"	#10	
WS-1	DOMESTIC WATER SOFTENER - DOMESTIC HOT WATER SERVING DISHWASHER	KITCHEN D101		(F)		3.5	120	1															GFCI OUTLET, CORD CONNECTED

Sheet	
Number	Sheet Name
EM100 EM101	MOTOR SCHEDULE, LEGENDS & SHEET INDEX ELECTRICAL & MECHANICAL SITE PLAN
EM102	ENLARGED KITCHEN LAYOUT
M103	MECHANICAL ROOF PLAN
M200A	AREA A - PLUMBING & HYDRONICS DEMOLITION PLAN
M201B	AREA B - PLUMBING & HYDRONICS DEMOLITION PLAN
M202C	AREA C - PLUMBING & HYDRONICS DEMOLITION PLAN
M203E	AREA E - PLUMBING & HYDRONICS DEMOLITION PLAN
M300A	AREA A - HVAC DEMOLITION PLAN
M301B	AREA B - HVAC DEMOLITION PLAN
M302C	AREA C - HVAC DEMOLITION PLAN
M303E	AREA E - HVAC DEMOLITION PLAN
M400A	AREA A - BELOW GRADE PLUMBING & HYDRONICS PLAN
M401B	AREA B - BELOW GRADE PLUMBING & HYDRONICS PLAN
M402C	AREA C - BELOW GRADE PLUMBING & HYDRONICS PLAN
M403D	AREA D - BELOW GRADE PLUMBING & HYDRONICS PLAN
M404E	AREA E - BELOW GRADE PLUMBING & HYDRONICS PLAN
M500A	AREA A - ABOVE GRADE PLUMBING & HYDRONICS PLAN
M501B	AREA B - ABOVE GRADE PLUMBING & HYDRONICS PLAN
M502C	AREA C - ABOVE GRADE PLUMBING & HYDRONICS PLAN
M503D M504E	AREA D - ABOVE GRADE PLUMBING & HYDRONICS PLAN AREA E - ABOVE GRADE PLUMBING & HYDRONICS PLAN
M600 M600	FIRE PROTECTION - LEGENDS & DETAILS
M601C	AREA C - FIRE PROTECTION PLAN
M602D	AREA D - FIRE PROTECTION PLAN
M603E	AREA E - FIRE PROTECTION PLAN
M700A	AREA A - HVAC PLAN
M701B	AREA B - HVAC PLAN
M702C	AREA C - HVAC PLAN
M703D	AREA D - HVAC PLAN
M704E	AREA E - HVAC PLAN
M705	HVAC TEMPERATURE CONTROL ZONE PLAN
M800	PLUMBING FIXTURE SCHEDULE
M900	MECHANICAL DETAILS
M901	MECHANICAL DETAILS CONTINUED
M902	MECHANICAL DETAILS & ISOMETRICS
M903	MECHANICAL SECTIONS
M904	MECHANICAL SCHEDULES
E200A	AREA A - ELECTRICAL DEMOLITION PLAN
E201B E202CD	AREA B - ELECTRICAL DEMOLITION PLAN AREA C & D - ELECTRICAL DEMOLITION PLAN
E202CD E203E	AREA C & D - ELECTRICAL DEMOLITION PLAN
E300A	AREA A - POWER & DATA PLAN
E300A E301B	AREA B - POWER & DATA PLAN
E301D	AREA C - POWER & DATA PLAN
E303D	AREA D - POWER & DATA PLAN
E304E	AREA E - POWER & DATA PLAN
E400A	AREA A - LIGHTING PLAN
E401B	AREA B - LIGHTING PLAN
E402C	AREA C - LIGHTING PLAN
E403D	AREA D - LIGHTING PLAN
E404E	AREA E - LIGHTING PLAN
E500A	AREA A - SPECIAL SYSTEMS PLAN
E501B	AREA B - SPECIAL SYSTEMS PLAN
E502C	AREA C - SPECIAL SYSTEMS PLAN
E503D	AREA D - SPECIAL SYSTEMS PLAN
E504E	AREA E - SPECIAL SYSTEMS PLAN
E600	ELECTRICAL DETAILS
E700	ELECTRICAL SCHEDULES
E701	ELECTRICAL SCHEDULES - CONTINUED

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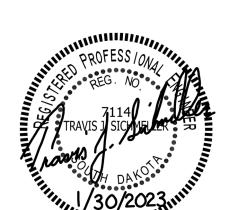
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SE PROJECT NO:



SPECIAL NOTES

- REFER TO THE FRONT END BIDDING DOCUMENTS FOR DESCRIPTION OF ALTERNATES. IN AREAS WHERE EXISTING CEILINGS ARE TO REMAIN, EACH TRADE SHALL BE RESPONSIBLE FOR ANY DAMAGE
- OR REPAIR NEEDED TO EXISTING CEILINGS AS A RESULT OF THEIR WORK. 3. EACH TRADE SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING AS NECESSARY TO ALLOW FOR

COMPLETION OF THEIR WORK. REFER TO ARCHITECTURAL PLANS FOR SELECTIVE DEMOLITION BY OTHERS. 4. ALL CONTRACTORS SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

ALL ROOFING WORK BY ROOFING CONTRACTOR, ALL TRADES TO COORDINATE. THE EXISTING BUILDING WILL BE IN USE DURING THIS CONSTRUCTION. SCHEDULE AND CARRY OUT THE WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO SERVICE INTERRUPTIONS. TEMPORARY SERVICES SHALL BE INSTALLED IF ONE PHASE OF CONSTRUCTION DISRUPTS SERVICE TO ANOTHER AREA OF THE BUILDING OR IF EQUIPMENT HAS TO BE RELOCATED TO ALLOW CONSTRUCTION TO PROGRESS. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST AREA POSSIBLE AT ANY ONE TIME AND INTERRUPTIONS SHALL BE SCHEDULE WITH THE OWNER'S SITE REPRESENTATIVE. AFTER SERVICE HAS BEEN RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION AND BE RESPONSIBLE FOR RETURNING AUTOMATICALLY CONTROLLED EQUIPMENT TO THE SAME OPERATING CONDITION, WHICH EXISTED PRIOR TO THE INTERRUPTION.

7. DURING THE SHOP DRAWING PROCESS, ALL M&E CONTRACTORS TO BE RESPONSIBLE FOR MARKING UP ALL OPENINGS IN THE CONCRETE SLAB, PRECAST WALL, CORE FLOOR, OR STRUCTURAL STEEL FRAMING. AND STRUCTURAL STEEL ROOF JOIST SYSTEMS REQUIRED FOR THE INSTALLATION OF THEIR RESPECTIVE SYSTEMS IN NEW AND EXISTING STRUCTURAL SYSTEMS.

8. WHERE PEX PIPING IS USED, PIPING SHALL BE UPONOR PEX-A POTABLE WATER PIPING WITH UPONOR F1960 EXPANDABLE FITTINGS, NO CRIMP FITTINGS TO BE ACCEPTED, PROVIDED THE CONTRACTOR IS TRAINED AND FOLLOWING ALL MANUFACTURER'S RECOMMENDATIONS TO FULFILL ALL AVAILABLE UPONOR 25 YEAR WARRANTY COVERAGE.

HYDRONICS SOLUTION:

A. EXISTING AREA A & B HOT WATER HEATING SYSTEM BEING TIED INTO (100% WATER): EXISTING SYSTEM IS 100% WATER, NO PRELIMINARY ANALYSIS OR SALVAGE IS REQUIRED. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND FLUSHING THE NEW HOT WATER HEATING SYSTEM PIPING. THE EXISTING HOT WATER HEATING SYSTEM SHALL BE DRAINED AS NECESSARY FOR PROPOSED TIE INS AND FILLED WITH NEW HEATING SOLUTION, NO CLEANING AND FLUSHING ON EXISTING PIPING. 3. UPON COMPLETION OF THE PROPOSED WORK & SYSTEM FLUSHING, THE NEW 100% INHIBITED

WATER SOLUTION SHALL BE PUMPED BACK IN. 4. AFTER PROPOSED WORK IS COMPLETE, THE PLUMBING/HYDRONICS CONTRACTOR IS TO PROVIDE A COMPLETE ANALYSIS OF THE HOT WATER HEATING SYSTEM TO CONFIRM PROPER WATER TREATMENT. SUBMIT ANALYSIS/RECOMMENDATIONS TO SICHMELLER ENGINEERING & OWNER. IF SOLUTION ANALYSIS INDICATES SOLUTION IS NOT SATISFACTORY, THIS CONTRACTOR TO MAKE ADJUSTMENTS AS RECOMMENDED BY INHIBITOR SUPPLER & RETEST UNTIL ANALYSIS IS

SATISFACTORY. B. NEW HOT WATER HEATING SYSTEM SERVING ADDITION AND REMODELED AREAS OF B (30% GLYCOL): NEW HEATING SYSTEM SOLUTION SHALL BE 30% PROPYLENE GLYCOL.

CALCULATED PROPOSED HEATING SYSTEM VOLUME: 820 GALLONS. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND FLUSHING THE NEW HOT WATER HEATING SYSTEM PIPING PRIOR TO PUMPING IN NEW HEATING

SOLUTION/STARTUP. 4. AFTER PROPOSED WORK IS COMPLETE, THE PLUMBING/HYDRONICS CONTRACTOR IS TO PROVIDE A COMPLETE ANALYSIS OF THE HOT WATER HEATING SYSTEM TO CONFIRM PROPER GLYCOL % AND TREATMENT. SUBMIT ANALYSIS/RECOMMENDATIONS TO SICHMELLER ENGINEERING & OWNER. IF SOLUTION ANALYSIS INDICATES SOLUTION IS NOT SATISFACTORY, THIS CONTRACTOR TO MAKE ADJUSTMENTS AS RECOMMENDED BY GLYCOL SUPPLER & RETEST UNTIL ANALYSIS IS SATISFACTORY.

10. ORIGINAL PLANS ARE AVAILABLE FOR REFERENCE. PLEASE CONTACT THE ENGINEER'S OFFICE TO REQUEST.

CONTACT LUKE @ 605-225-4344.

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Addendum ME2

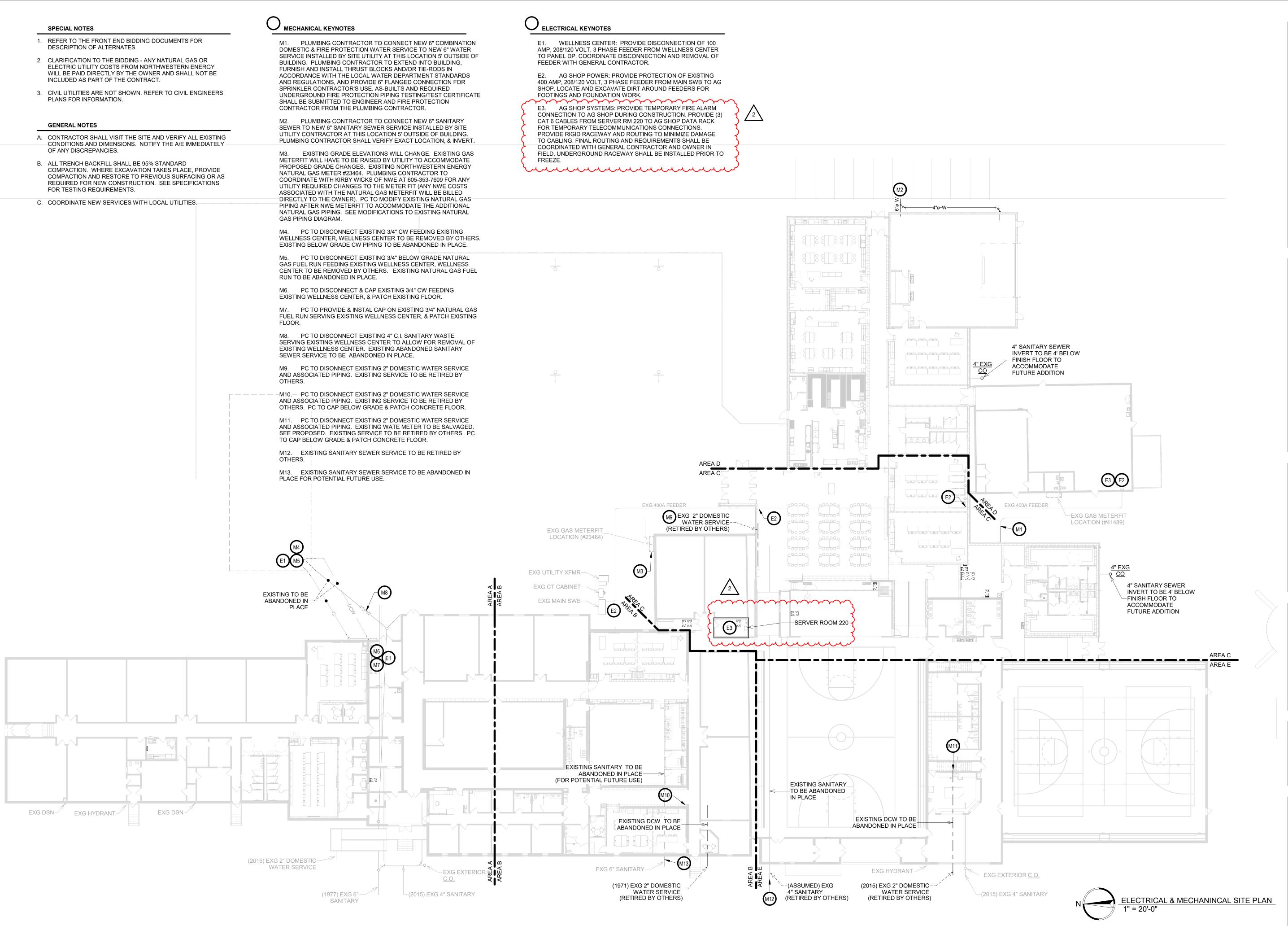
PROJECT: WILLOW LAKE SCHOOL ADDITION

WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

MOTOR SCHEDULE, LEGENDS & SHEET INDEX

MOTOR CONNECTION



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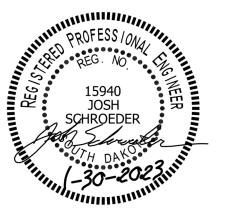
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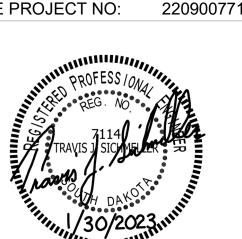
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Addendum ME2

2-23-23

PROJECT:

WILLOW LAKE SCHOOL ADDITION

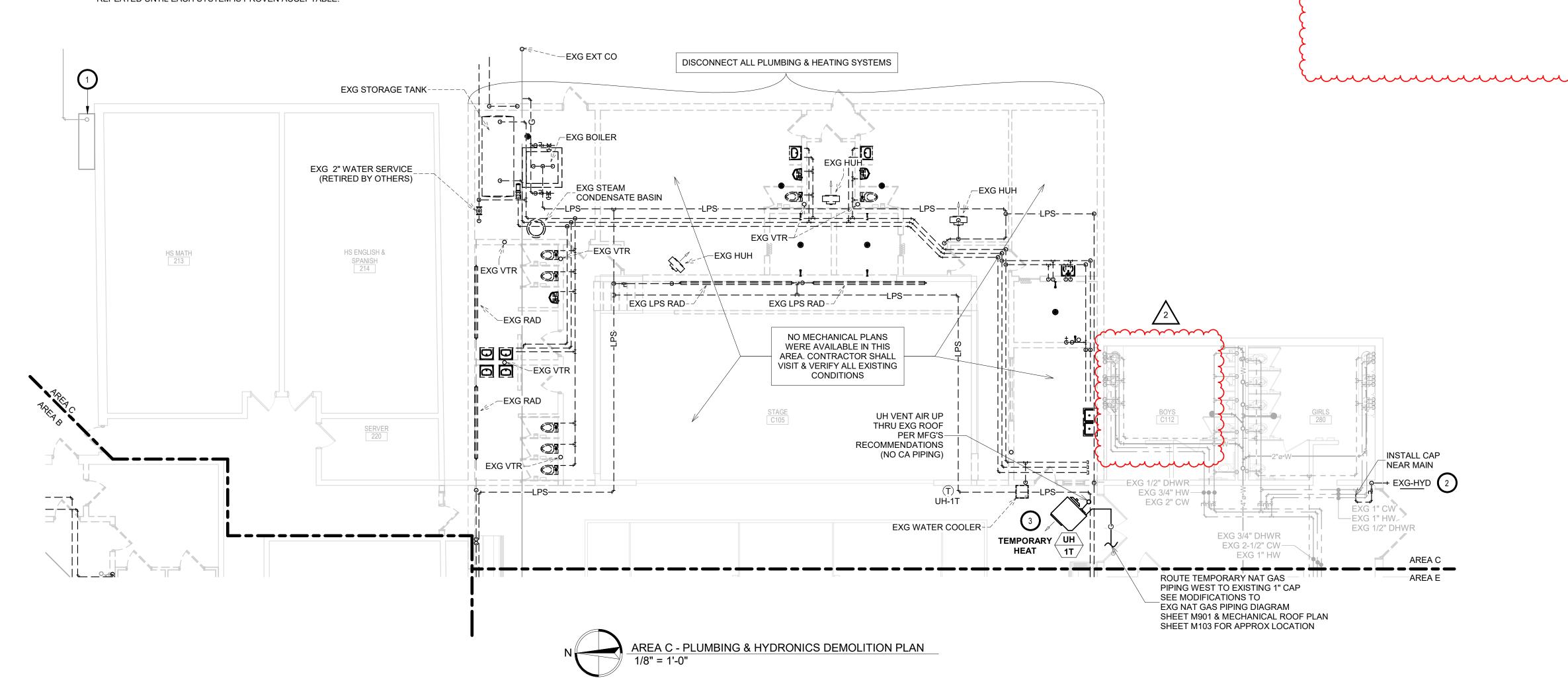
WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

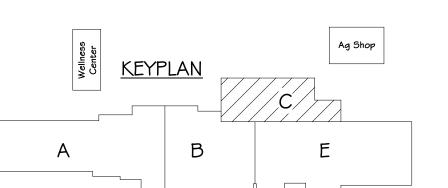
SHEET TITLE:

ELECTRICAL & MECHANICAL SITE PLAN

EM101

- A. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY THE
- ENGINEER IMMEDIATELY OF ANY DISCREPANCIES, INCLUDING ANY NECESSARY DEMOLITION. B. REMOVE MECHANICAL EQUIPMENT IN THE AREAS SHOWN ON THE PLAN, DISCONNECT SERVICES AND REMOVE TO A POINT OUT OF THE WAY OF THE GENERAL DEMOLITION. MARK ON THE PLAN TO CLEARLY SHOW WHERE THESE SERVICES ARE STOPPED. DEMOLITION WORK SHALL BE COORDINATED WITH THE OWNER. SHOULD QUESTIONS ARISE REGARDING THE REMOVAL OF EQUIPMENT, CONFER WITH THE OWNER BEFORE SUCH EQUIPMENT IS DEMOLISHED. MATERIALS REMOVED BY DEMOLITION SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE SPECIFICALLY NOTED. MATERIAL THE OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED AND DISPOSED OF PROPERLY BY THE CONTRACTOR.
- C. EQUIPMENT SHOWN ON DRAWINGS AS EXISTING IS BASED ON EXISTING PLANS AND LIMITED FIELD INVESTIGATION. THE FIELD SURVEY WAS CONDUCTED TO VERIFY, AS MUCH AS POSSIBLE, THE ACCURACY OF THE LOCATIONS SHOWN. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THE "EXISTING CONDITIONS" AS SHOWN ON THE DRAWINGS AS THE DEMOLITION WORK PROGRESSES. PERFORM MODIFICATIONS AND ADDITIONS AS NECESSARY TO CORRECT FOR THESE HIDDEN CONDITIONS AND ALLOW FOR THE COMPLETION OF THE NEW
- D. THE EXISTING BUILDING WILL BE IN USE DURING THIS CONSTRUCTION. SCHEDULE AND CARRY OUT THE WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO SERVICE INTERRUPTIONS. TEMPORARY SERVICES SHALL BE INSTALLED IF ONE PHASE OF CONSTRUCTION DISRUPTS SERVICE TO ANOTHER AREA OF THE BUILDING OR IF EQUIPMENT HAS TO BE RELOCATED TO ALLOW CONSTRUCTION TO PROGRESS. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST AREA POSSIBLE AT ANY ONE TIME AND INTERRUPTIONS SHALL BE SCHEDULED WITH THE OWNER'S SITE REPRESENTATIVE. AFTER SERVICE HAS BEEN RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION AND BE RESPONSIBLE FOR RETURNING AUTOMATICALLY CONTROLLED EQUIPMENT TO THE SAME OPERATING CONDITION, WHICH EXISTED PRIOR TO THE INTERRUPTION.
- E. PROVIDE PENETRATIONS TO THE BUILDING STRUCTURE AS REQUIRED FOR INSTALLATION. WHERE EXISTING OR TEMPORARY SYSTEMS ARE BEING DEMOLISHED, WHICH LEAVE OPENINGS IN THE EXISTING BUILDING STRUCTURE, THE BUILDING STRUCTURE SHALL BE PATCHED TO MATCH THE EXISTING CONSTRUCTION AND MAINTAIN THE EXISTING BUILDING FIRE RATINGS. ALL PENETRATIONS THROUGH DRAFT STOPS AND OTHER FIRE-
- RATED PARTITIONS SHALL BE FIRE STOPPED AS PER SPECIFICATIONS AND LOCAL CODES. F. ALL MECHANICAL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, NATIONAL PLUMBING REGULATIONS, AND THE AUTHORITY HAVING JURISDICTION.
- G. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE TESTING & CLEANING OF EACH RESPECTIVE SYSTEM IN ACCORDANCE WITH APPLICABLE STATE & LOCAL CODES. TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION. WRITTEN NOTIFICATION OF TEST, DATE, AND RESULTS SHALL BE FURNISHED TO THE ENGINEER BEFORE CONCEALING OR COVERING THE INSTALLATION. TESTS SHALL BE REPEATED UNTIL EACH SYSTEM IS PROVEN ACCEPTABLE.







- 1. EXISTING GRADE ELEVATIONS WILL CHANGE. EXISTING GAS METERFIT WILL HAVE TO BE RAISED BY UTILITY TO ACCOMMODATE PROPOSED GRADE CHANGES. EXISTING NORTHWESTERN ENERGY NATURAL GAS METER #23464. PLUMBING CONTRACTOR TO COORDINATE WITH KIRBY WICKS OF NWE AT 605-353-7609 FOR ANY UTILITY REQUIRED CHANGES TO THE METER FIT (ANY NWE COSTS ASSOCIATED WITH THE NATURAL GAS METERFIT WILL BE BILLED DIRECTLY TO THE OWNER). PC TO MODIFY EXISTING NATURAL GAS PIPING AFTER NWE METERFIT TO ACCOMMODATE THE ADDITIONAL NATURAL GAS PIPING. SEE MODIFICATIONS TO EXISTING NATURAL GAS PIPING DIAGRAM.
- 2. PC TO DISCONNECT AND REMOVE EXISTING PLUMBING FIXTURE, DOMESTIC WATER AND INSTALL CAP NEAR
- 3. PC TO PROVIDE & INSTALL UH-1T, REZNOR UDX-400 WITH 332 MBH OUTPUT, POWER VENTING, WITH HANGING VIBRATION ISOLATION, AND LOW VOLTAGE NON-PROGRAMMABLE T-STAT, CLEAR LOCKABLE COVER, AND CONTROL WIRING.



1108 S. Main St. 102

Aberdeen, SD 57401

Phone: 605-725-4852

601 Kansas City St. 7

Rapid City, SD 57701

Phone: 605-716-3652

440 E. 8th St 221

Sioux Falls, SD 57103

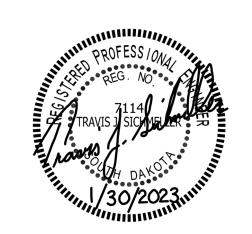
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ENGINEERING

Mechanical & Electrical Engineering

SE PROJECT NO:



220900771

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2-23-23

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Addendum ME 1 Addendum ME2

PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

AREA C - PLUMBING & HYDRONICS DEMOLITION PLAN

M202C

HS MATH

SPECIAL NOTES

- A. ALL MECHANICAL SYSTEMS, EXCLUDING DROPS, TO BE INSTALLED AS HIGH AS POSSIBLE TO PROVIDE
- B. FLOOR DRAINS & SINK LOCATIONS SHALL BE INSTALLED IN LOCATIONS PROPER TO ACCEPT INDIRECT DRAIN PIPING FROM BOILERS, WATER HEATER, RELIEFS, ETC. (TRIP HAZARDS FROM PIPING WILL NOT BE ACCEPTABLE).
- C. ALL FLOOR CLEANOUTS TO BE LOCATED IN INCONSPICUOUS LOCATIONS. CLEANOUTS LOCATED IN DOORWAYS AND MIDDLE OF HALLWAYS WILL NOT BE ACCEPTABLE.

MAXIMUM CLEARANCES FOR OWNER.

COMBINATION DOMESTIC & FIRE PROTECTION WATER SERVICE TO NEW 6" WATER SERVICE INSTALLED BY SITE UTILITY AT THIS LOCATION 5' OUTSIDE OF BUILDING. PLUMBING CONTRACTOR TO EXTEND INTO BUILDING, ACCORDANCE WITH THE LOCAL WATER DEPARTMENT STANDARDS AND REGULATIONS, AND PROVIDE 6" FLANGED CONNECTION FOR SPRINKLER CONTRACTOR'S USE. AS-BUILTS AND REQUIRED UNDERGROUND FIRE PROTECTION

1. THIS SPACE IS RESERVED FOR ELECTRICAL GEAR. PIPING AND EQUIPMENT SHALL NOT BE LOCATED IN FRONT

OF OR ROUTED ABOVE ELECTRICAL PANELS. COORDINATE

W KEYNOTES

WITH DIVISION 26.

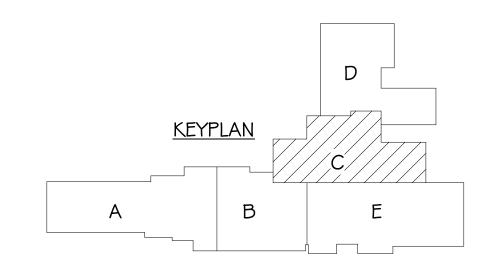
3. EXISTING GRADE ELEVATIONS WILL CHANGE. EXISTING GAS METERFIT WILL HAVE TO BE RAISED BY UTILITY TO ACCOMMODATE PROPOSED GRADE CHANGES. EXISTING NORTHWESTERN ENERGY NATURAL GAS METER #23464. PLUMBING CONTRACTOR TO COORDINATE WITH KIRBY WICKS OF NWE AT 605-353-7609 FOR ANY UTILITY REQUIRED CHANGES TO THE METER FIT (ANY NWE COSTS ASSOCIATED WITH THE NATURAL GAS METERFIT WILL BE BILLED DIRECTLY TO THE OWNER). PC TO MODIFY EXISTING NATURAL GAS PIPING AFTER NWE METERFIT TO ACCOMMODATE THE ADDITIONAL NATURAL GAS PIPING. SEE MODIFICATIONS TO EXISTING NATURAL GAS PIPING DIAGRAM.

4. PC TO COORDINATE FLOOR CUTTING BY OTHERS WITH GC FOR NEW BELOW GRADE PIPING.

2. PLUMBING CONTRACTOR TO CONNECT NEW 6" FURNISH AND INSTALL THRUST BLOCKS AND/OR TIE-RODS IN PIPING TESTING/TEST CERTIFICATE SHALL BE SUBMITTED TO ENGINEER AND FIRE PROTECTION CONTRACTOR FROM THE PLUMBING CONTRACTOR.

CORRIDOR AREA D AREA C HEALTH SCIENCE AREA C ___ AREA E AREA E AREA C - BELOW GRADE PLUMBING & HYDRONICS PLAN - ADD ALTERNATE #1 1-1/2" HWR & HWS ROUTED BELOW GRADE SHALL BE 1-1/2" UNINSULATED PEX IN 6" PVC SLEEVE. PVC SLEEVE TO TERMINATE AT A HEIGHT TO MATCH BASE TRIM HEIGHT IN KITCHEN. PIPING TO COME UP IN WALL IN VEST C100A. 3-WAY VALVE MUST BE INSTALLED INSIDE CUH CABINET TO ENSURE HOT WATER FLOW THRU UNDERGROUND PIPING. 6" COMBINATION WATER SERVICE UP DEDICATED FIRE SPRINKLER RISER SPACE 4" SANITARY SEWER FS-2 INVERT TO BE 4' **BOYS LOCKER** ─3" V UP BELOW FINISHED FLOOR TO ACCOMMODATE FUTURE ADDITION. PVC◀┐ HS ENGLISH & SPANISH 214 —►CAST IRON SERVER 220 GIRLS LOCKER
C111

AREA C - BELOW GRADE PLUMBING & HYDRONICS PLAN

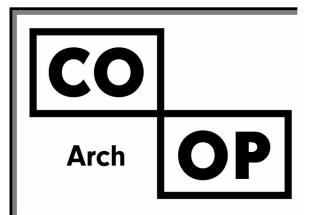


OUTLINE REPRESENT

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EXTENTS OF ALTERNATE #1

GYM STOR.



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601 Kansas City St. 7 Rapid City, SD 57701 Phone: 605-716-3652

440 E. 8th St 221 Sioux Falls, SD 57103 Phone: 605-334-9999

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SICHMELLER ENGINEERING Mechanical & Electrical Engineering

801 Railroad Ave. SE Aberdeen, SD 57401 Phone: 605-225-4344 www.siceng.biz

SE PROJECT NO:

220900771

2-23-23

ISSUE:

1/30/23 CONSTRUCTION DOCUMENTS

REVISION SCHEDULE:

REV. DSC. REV. DATE Addendum ME2

PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

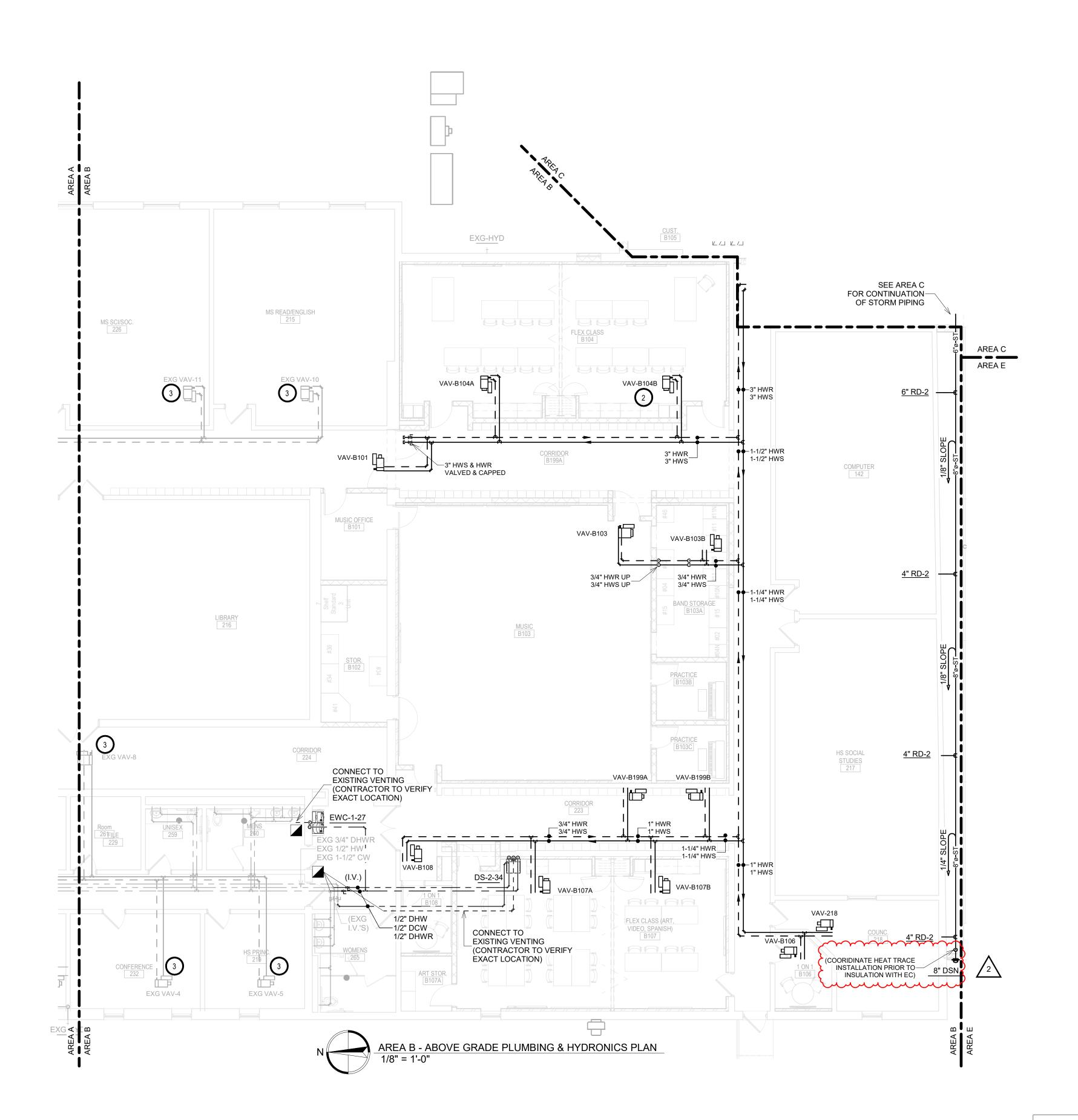
SHEET TITLE:

AREA C

AREA E

AREA C - BELOW GRADE PLUMBING & HYDRONICS PLAN

M402C

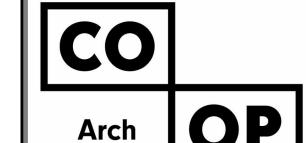


GENERAL NOTES:

- A. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER.
- B. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING ANY OPENINGS LEFT IN FLOORS, WALLS, AND CEILINGS THAT WERE CAUSED BY HIS/HER ACTIONS. PATCHING SHALL MATCH EXISTING SURFACE IN COLOR, TEXTURE AND QUALITY SO THAT PATCH IS INDISTINGUISHABLE FROM ORIGINAL SURFACE.
- C. ALL PENETRATIONS THROUGH DRAFT STOPS AND OTHER FIRE-RATED PARTITIONS SHALL BE FIRE STOPPED AS PER SPECIFICATIONS AND LOCAL CODES.
- D. ALL MECHANICAL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, NATIONAL PLUMBING REGULATIONS, AND THE AUTHORITY HAVING JURISDICTION.
- E. THE MECHANICAL DRAWINGS SHOW GENERAL ARRANGEMENT ONLY. EXACT LOCATION SHALL AVOID INTERFERENCE WITH ELECTRICAL EQUIPMENT & REQUIRED ELECTRICAL CLEARANCES.
- F. CONTRACTOR SHALL COORDINATE ALL PLUMBING WITH LIGHT FIXTURES, HVAC, FIRE SPRINKLER, AND STRUCTURAL TO ACCOMMODATE LIMITED CEILING SPACE.
- G. FRESH AIR INTAKES TO BE MINIMUM 10' FROM ANY EXHAUST TERMINATION.
- H. ALL FLOOR EQUIPMENT SHALL BE SET ON 4" HIGH CONCRETE BASES FURNISHED BY THIS CONTRACTOR.
- I. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY THE A/E IMMEDIATELY OF ANY DISCREPANCIES.
- J. COORDINATE NEW SERVICES WITH LOCAL UTILITIES.
- K. PLUMBING CONTRACTOR TO PROVIDE VENTING FOR ALL FLOOR DRAINS, TRENCH DRAINS, AND FLOOR SINKS AS SHOWN OR AS REQUIRED BY CODE.

KEYNOTES:

- THIS SPACE IS RESERVED FOR ELECTRICAL GEAR. PIPING AND EQUIPMENT SHALL NOT BE LOCATED IN FRONT OF OR ROUTED ABOVE ELECTRICAL PANELS. COORDINATE WITH DIVISION 26.
- 2. TYPICAL SEE VAV HEATING COIL PIPING DETAIL.
- PC TO INSTALL NEW 2-WAY NORMALLY OPEN MODULATING CONTROL VALVE ON EXISTING VAV'S.



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440 E. 8th St 221 Sioux Falls, SD 57103 Phone: 605-334-9999

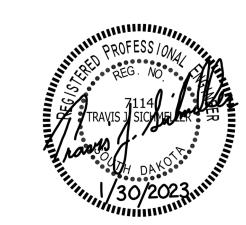
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SICHMELLER ENGINEERING Mechanical & Electrical Engineering

801 Railroad Ave. SE Aberdeen, SD 57401 Phone: 605-225-4344 www.siceng.biz

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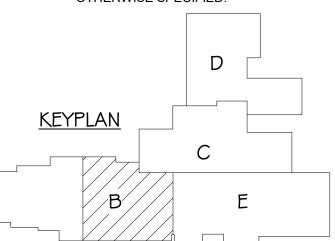
REVISION SCHEDULE:

REV. # REV. DSC. REV. DATE

2 Addendum ME2 2-23-23

SPECIAL NOTES:

- A. ALL MECHANICAL SYSTEMS, EXCLUDING DROPS, TO BE INSTALLED AS HIGH AS POSSIBLE TO PROVIDE MAXIMUM CLEARANCES FOR OWNER.
- B. FLOOR DRAINS & SINK LOCATIONS SHALL BE INSTALLED IN LOCATIONS PROPER TO ACCEPT INDIRECT DRAIN PIPING FROM BOILERS, WATER HEATER, RELIEFS, ETC. (TRIP HAZARDS FROM PIPING WILL NOT BE ACCEPTABLE).
- C. ALL FLOOR CLEANOUTS TO BE LOCATED IN INCONSPICUOUS LOCATIONS. CLEANOUTS LOCATED IN DOORWAYS AND MIDDLE OF HALLWAYS WILL NOT BE ACCEPTABLE.
- D. ALL STORM DRAINAGE TO BE 1/8" SLOPE UNLESS OTHERWISE SPECIFIED.



PROJECT:

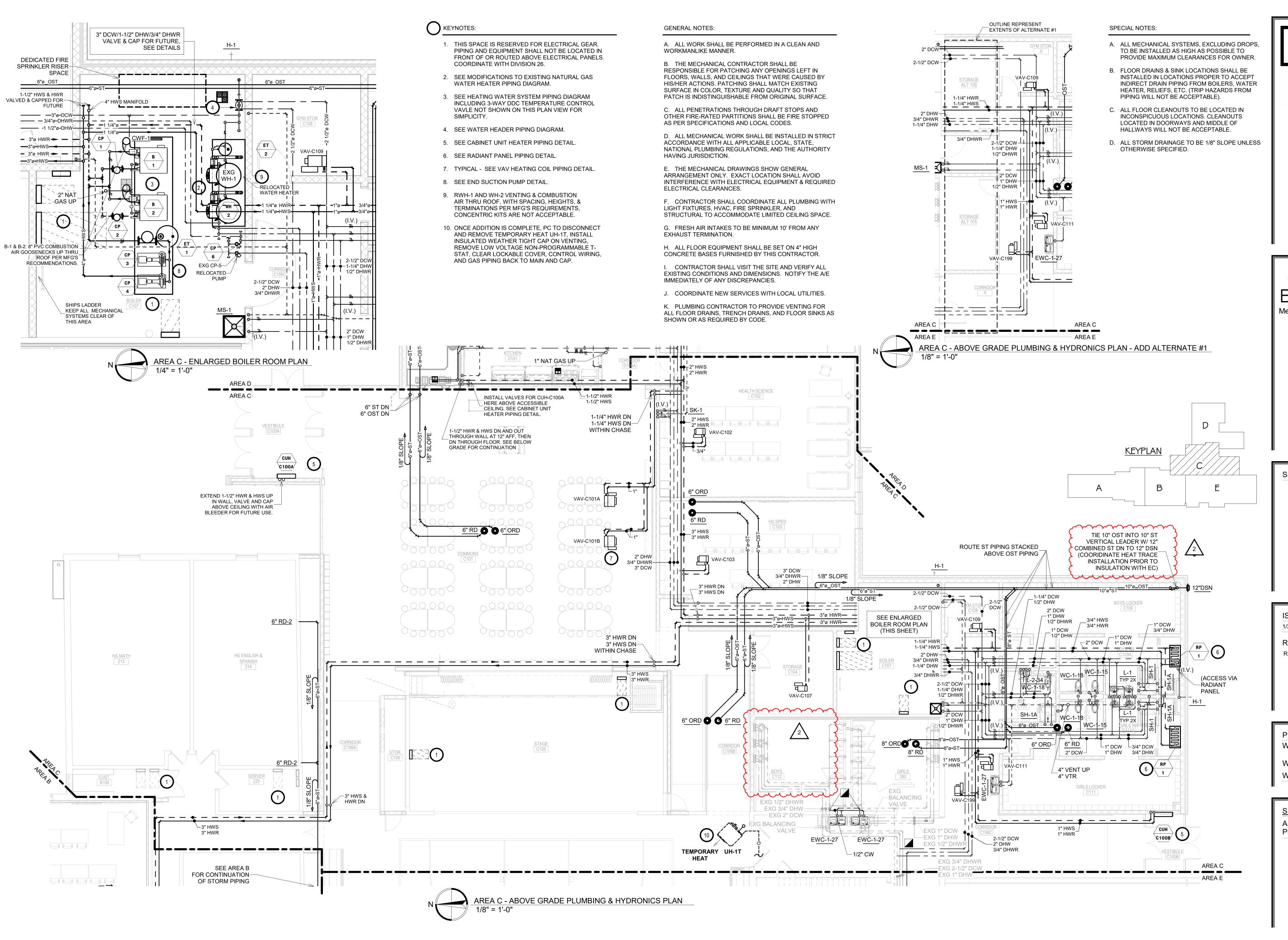
WILLOW LAKE SCHOOL ADDITION

WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

AREA B - ABOVE GRADE PLUMBING & HYDRONICS PLAN

M501B



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601 Kansas City St. 7 Rapid City, SD 57701 Phone: 605-716-3652

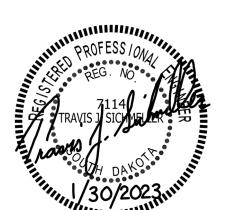
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SE PROJECT NO:



220900771

ISSUE:

CONSTRUCTION DOCUMENTS

REVISION SCHEDULE:

REV. DSC. 02-16-23

Addendum ME 1 Addendum ME2

PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

AREA C - ABOVE GRADE PLUMBING & HYDRONICS PLAN

M502C

									PACK	AGED R	OOFTOP	UNIT	SCH	EDULE	- NA	TURAL	GAS	HEAT													RTU
					SUPPLY	POWERED				COOLING				HOT GAS REHEAT				NATURAL GAS HEA	TING				MOTOR			E	ELECTRICAL		\sim		
EQUIP. NO. MANUFACTURER & MODEL	LOCATION	SERVING	SUPPLY AIR CFM	OUTSIDE AIR CFM	FAN E.S.P. (IN)	EXHAUST FAN E.S.P. (IN)	NOM. TONS	TOTAL MBH	EAT (DB/WB) (°F)	LAT (DB/WB) (°F)	EER	IEER	МВН	LAT (DB/WB) (°F)	%RH	MBH INPUT	MBH OUTPUT	EAT (DB) (°F)	LAT (DB) (°F)	STAGES	QTY	HP (EACH)	FRPM	FAN TYPE/ SIZE (IN) EACH	V./PH./CY.	FLA	МСА	МОСР	MIN SCCR (KAIC)	WEIGHT (LBS)	NOTES
RTU-7 JCI JV28T3DX2K1CARA6L2	NEW ADDITION ROOF	EXG GYMNASIUM	9,700	3,400	2.27	0.2	27 1/2	306.5	80.1/66.4	60.2/56.3	10.5	13.8	-	-	-	620.0	502.2	36.9	84.8	MOD	1	15	1077	-	208/3/60	-	178.3	200	22	5,040 + CURB	1,3,4,6,7,8, 9,10,11
RTU-8 JCI JV40T3DH2K1CARA6L2	NEW ADDITION ROOF	CLASSROOM ADDITION VAV TERMINALS	14,860	3,700	2.33	0.2	40	427.6	78.9/65.0	58.4/55.5	10.8	15.2	-	-	-	800.0	648.0	44.9	85.3	MOD	1	20	1006	-	208/3/60	-	223.2	275	22	6,877 + CURB	1,2,3,6,7,8, 9,10,11
RTU-9 JCI ZT120S24R2D6BCD2E2	NEW ADDITION ROOF	SHOP	3,140	1,090	1.55	0.2	10	117.4	80.6/65.6	54.6/53.1	13.1	21.2	-	-	-	240.0	194.0	40.5	97.7	2	1	3	1264	-	208/3/60	-	75.6	90	22	1,725 + CURB	1,4,5,6,7,8, 9,10,11
RTU-10 JCI ZT150S24R2D6BCD2A2	EXG ROOF	AREA B REMODEL VAV TERMINALS	4,500	1,350	1.25	0.2	12 1/2	149.4	79.7/65.5	55.9/54.5	12.5	20.2	-	-	-	240.0	194.0	31.6	71.5	2	1	5	1466	-	208/3/60	-	83.1	100	22	1,743 + CURB	1,2,5,6,7,8, 9,10,11
NOTES: 1. PROVIDE UNIT WITH FACTORY I 2. PROVIDE UNIT CONFIGURED FOR	STALLED CONTROLS WITH BACNET INT VAV APPLICATION WITH FACTORY INS	ERFACE FOR CONNECTION TO BUILDING DDC SYSTEM. ITALLED VFD ON SUPPLY FAN, FACTORY POWERED CONVENIENCE	E OUTLET, THROUGH TH	E BASE ELECTRICAL	PROVISIONS, PHASE	MONITOR, 2" MERV 8	PLEATED FILTERS	AND FACTORY INST	ALLED ENTHALPY ECONO	WIZER WITH MODULATING	POWERED EXHAUST.															•				<u> </u>	

2. PROVIDE UNIT COMFIGNED FOR VAV APPLICATION WITH FACTORY INSTALLED VFD ON SUPPLY FAM, FACTORY POWERED CONVENIENCE COULTET, THROUGH THE BASE ELECTRICAL PROVISIONS, PHASE MONITOR, 2" MERV 8 PLEATED FILTERS AND FACTORY INSTALLED CONTENDED CONVENIENCE COULTET, THROUGH THE BASE ELECTRICAL PROVISIONS, PHASE MONITOR, 2" MERV 8 PLEATED FILTERS AND FACTORY INSTALLED CONDENSATE COVERFLOW SHITCH, HIGH HEAT FLUE EXHAUST, FACTORY INSTALLED CONCENTED COULTING, HOUSENED CONVENIENCE COULTET, THROUGH THE BASE ELECTRICAL PROVISIONS, PHASE MONITOR, 2" MERV 8 PLEATED FILTERS AND FACTORY INSTALLED CONNECTION, SHITCH, HIGH HEAT FLUE EXHAUST, FACTORY INSTALLED CONCENTED CONVENIENCE COULTET, THROUGH THE BASE ELECTRICAL PROVISIONS, PHASE MONITOR, 2" MERV 8 PLEATED FLITERS AND FACTORY INSTALLED CONNECTION, SHITCH HIGH HEAT FLUE EXHAUST, FACTORY INSTALLED CONCENTED WITH FORMER DEVAMENT.

5. PROVIDE ON INSTALL FIRST PER MANUFACTURESS RECOMMENTED WAS PLAYED FLITTED FOR MANUFACTURESS RECOMMENDATIONS.

7. PROVIDE FACTORY AUTHORIZED STARTUP.

8. PROVIDE OF ACTORY AUTHORIZED STARTUP.

9. PROVIDE OF ADDRESSORS HAMBERS.

10. PROVIDE 6 INSTALL DEVINE SOME EXTENDED COMPRESSOR WARRANTY.

9. PROVIDE 6 INSTALL DEVINE SOME AUTHORIZED STARDERS.

11. PROVIDE & INSTALL FILLY INSULATED MINIMUM 18" HIGH ROOF CURB. FOR ACCUSTICAL PURPOSES, FIELD INSTALL TWO LAYERS OF WATERPROOF SWEETBOCK TOPPED WITH BATT INSULATION TO COMPLETELY FILL ALL VOIDS IN THE ROOF CURB. ALL ROOFING WORK TO BE BY OTHERS (ROOFING BID PACKAGE), PC, VC, & TC TO COORDINATE.

			DUST	COLL	ECTOR S	CHEDU	LE				DC
EQUIP.	MANUFACTURER & MODEL	SERVING	LOCATION	CFM	STATIC PRESS.		E	LECTRICAL		UNIT WEIGHT	NOTES
NO.	MANOFACTORER & MODEL	SERVING	LOCATION	OF M	(IN W.G.)	HP	FRPM	VOLT./PH./CY.	FLA	(LBS)	HOTES
DC-1	JET DC-1100VX-CK	SEE PLANS	AG SHOP D105B	1100	10.5	1 1/2		120/1/60	11.0	117	1,2
NOTES:	PORTABLE DUST COLLECTOR W. PROVIDE WITH TWO ANTI-STABLAST GATES AT EACH PIECE	TIC DUCT HOSES & ACCESS	ORIES NECESSARY TO SERVE	OWNER EQUIPMÉN	T, INCLUDING RIGID	CONNECTIONS V	VITH				

								AIR	CLE	ANER	SCH	EDUL	.E									(AC)
									ELECTRIC	PRE-HEAT		NATURA	L GAS HEAT	(10:1 TU	RNDOWN)		ELECT	RICAL			UNIT	
EQUIP NO.	MANUFACTURER & MODEL	SERVING	SUPPLY AIR CFM	OUTSIDE AIR CFM	E.S.P. (IN)	T.S.P. (IN)	FAN RPM	CAPACITY (KW)	STAGES	EAT (°F) (DB/WB)	LAT (°F) (DB/WB)	MBH INPUT	MBH OUTPUT	EAT (°F) (DB/WB)	LAT (°F) (DB/WB)	MOTOR HP	V./PH./CY.	FLA	MCA	МОСР	WEIGHT (LBS)	NOTES
AC-1	BLUE OX OX3000	AG SHOP D105B	3000	-	-	-	-	-	-	-	-	-	-	-	-	3/4	120/1/60	10.2	12.8	20	165	1,2,3
AC-2	BLUE OX OX3000	AG SHOP D105B	3000	-	-	-	-	-	-	-	-	-	-	-	-	3/4	120/1/60	10.2	12.8	20	165	1,2,3
AC-3	BLUE OX OX3000	AG SHOP D105B	3000		-	-		-	-	-	-	-	-	-	-	3/4	120/1/60	10.2	12.8	20	165	1,2,3
	1. PROVIDE WITH (2) 24X 2. PROVIDE WITH SILENCE 3. PROVIDE WITH MAGNAHE	R WITH 4 WAY	DIRECTIONAL		S AND (2) 24X24X	22 65%	8 POCKET	BAG FILTE	RS.												

						VA	V TE	RMIN	AL S	CHED	ULE								VAV
EQUIP.		MAX	MIN	INLET	MAX	MAX	MAX			HEA:	TING COIL	(EWT =180	°F)			COIL	RUNOUT	WEIGHT	
NO.	MANUFACTURER & MODEL	CFM	CFM	SIZE	TERM APD	RAD NC	DISCH NC	CFM	MIN MBH	EAT (°F)	LAT (°F)	GPM	LWT (°F)	WPD (FT)	ROWS	CONN. SIZE	SIZE	(LBS.)	NOTES
VAV-218	TITUS DESV	220	90	5	0.50	35	35	220	10.3	55.0	98.3	1.0	158.3	0.22	2	1/2"	3/4"	30	1,2,3,4,
VAV-B101	TITUS DESV	150	80	5	0.50	35	35	120	6.2	55.0	102.5	0.5	154.1	0.06	2	1/2"	3/4"	30	1,2,3,4,
VAV-B103	TITUS DESV	1480	890	12	0.50	35	35	890	29.1	55.0	85.1	1.5	139.2	0.32	2	7/8"	3/4"	45	1,2,3,4
VAV-B103B	TITUS DESV	200	100	5	0.50	35	35	195	7.4	55.0	90.1	0.5	148.8	0.06	2	1/2"	3/4"	30	1,2,3,4,
VAV-B104A	TITUS DESV	510	310	8	0.50	35	35	310	13.6	55.0	95.4	1.0	151.5	0.29	2	1/2"	3/4"	32	1,2,3,4,
VAV-B104B	TITUS DESV	510	310	8	0.50	35	35	310	13.6	55.0	95.4	1.0	151.5	0.29	2	1/2"	3/4"	32	1,2,3,4,
VAV-B106	TITUS DESV	120	70	5	0.50	35	35	120	6.2	55.0	102.5	0.5	154.1	0.06	2	1/2"	3/4"	30	1,2,3,4
VAV-B107A	TITUS DESV	510	305	8	0.50	35	35	305	13.5	55.0	95.8	1.0	151.7	0.29	2	1/2"	3/4"	32	1,2,3,4
VAV-B107B	TITUS DESV	370	225	6	0.50	35	35	225	10.4	55.0	97.7	1.0	158.1	0.22	2	1/2"	3/4"	30	1,2,3,4
VAV-B108	TITUS DESV	120	65	5	0.50	35	35	120	6.2	55.0	102.5	0.5	154.1	0.06	2	1/2"	3/4"	30	1,2,3,4
VAV-B199A	TITUS DESV	360	145	6	0.50	35	35	285	11.4	55.0	91.9	1.0	156.1	0.22	2	1/2"	3/4"	30	1,2,3,4
VAV-B199B	TITUS DESV	510	205	8	0.50	35	35	405	14.9	55.0	88.9	1.0	148.7	0.29	2	1/2"	3/4"	32	1,2,3,4
VAV-C101A	TITUS DESV	2640	2195	16	0.50	35	35	2295	84.0	55.0	88.8	6.0	150.6	0.69	2	7/8"	1"	60	1,2,3,4
VAV-C101B	TITUS DESV	2640	2195	16	0.50	35	35	2295	84.0	55.0	88.8	6.0	150.6	0.69	2	7/8"	1"	60	1,2,3,4
VAV-C102	TITUS DESV	1010	895	10	0.50	35	35	895	29.2	55.0	85.1	2.0	149.3	0.46	2	7/8"	3/4"	38	1,2,3,4
VAV-C103	TITUS DESV	890	785	10	0.50	35	35	785	28.0	55.0	87.9	2.0	150.6	0.46	2	7/8"	3/4"	38	1,2,3,4
VAV-C107	TITUS DESV	180	75	5	0.50	35	35	140	6.6	55.0	98.3	0.5	152.4	0.06	2	1/2"	3/4"	30	1,2,3,4
VAV-C109	TITUS DESV	270	115	6	0.50	35	35	240	19.7	55.0	130.8	2.0	159.3	0.79	3	1/2"	3/4"	30	1,2,3,4
VAV-C111	TITUS DESV	240	100	5	0.50	35	35	230	10.5	55.0	97.2	1.0	157.9	0.22	2	1/2"	3/4"	30	1,2,3,4
VAV-C199	TITUS DESV	510	205	8	0.50	35	35	510	19.8	55.0	90.8	1.5	152.3	0.54	2	1/2"	3/4"	32	1,2,3,4
VAV-D101	TITUS DESV	3100	1240	24x16	0.50	35	35	2315	96.7	55.0	93.5	5.0	139.3	0.68	2	7/8"	1"	89	1,2,3,4
VAV-D103	TITUS DESV	1010	900	10	0.50	35	35	900	29.3	55.0	85.0	2.0	149.3	0.46	2	7/8"	3/4"	38	1,2,3,4
VAV-D103A	TITUS DESV	120	65	5	0.50	35	35	120	6.2	55.0	102.5	0.5	154.1	0.06	2	1/2"	3/4"	30	1,2,3,4
VAV-D104	TITUS DESV	1060	935	10	0.50	35	35	935	29.6	55.0	84.2	2.0	148.9	0.46	2	7/8"	3/4"	38	1,2,3,4
VAV-D105	TITUS DESV	170	70	5	0.50	35	35	130	6.4	55.0	100.3	0.5	153.2	0.06	2	1/2"	3/4"	30	1,2,3,4
VAV-D106	TITUS DESV	1190	1055	10	0.50	35	35	1055	40.1	55.0	90.0	4.0	159.0	1.08	2	7/8"	1"	38	1,2,3,4
VAV-D106A	TITUS DESV	200	185	5	0.50	35	35	185	7.3	55.0	91.3	0.5	149.4	0.06	2	1/2"	3/4"	30	1,2,3,4
VAV-D199	TITUS DESV	1270	510	10	0.50	35	35	1270	36.3	55.0	81.3	2.5	149.5	0.62	2	7/8"	3/4"	38	1,2,3,4

1. SOUND DATA SHALL BE TAKEN FROW ARI STANDARD 880 (LATEST EDITION) PUBLISHED DATA.
2. INLET STATIC PRESSURE FOR TENUMINAL SELECTION IS 1.0". TERMINAL S.P. INCLUDES COIL APD.
3. PERFORMANCE BASED ON 30% PROPYLENE GLYCOL
4. LH OR RH CONNECTION ON COIL PIPING VARIES, SEE PLAN.
5. SEE VAY MEATING COIL PIPING DETAIL.

				FAN	SC	HEDU	ILE								EF
EQUIP.	MANUFACTURER & MODEL	SERVING	LOCATION	TYPE	CFM	LOW SPEED	STATIC PRESS.	SONES			MO	TOR		UNIT	NOTES
NO.	(STYLE)	OLIVING.	LOURITON	1112	OI III	CFM	(IN W.G.)	CONEC	WATTS	HP	FRPM	VOLT./PH./CY.	FLA	(LBS)	
EF-6	AEROVENT ACXD 120B	EXHAUST - STORAGE C104, GYM STOR. C108, BOYS C109, REF. C110, GIRLS C111	NEW ROOF	PRV	975	-	0.35	9.8	-	1/3	1268	120/1/60	7.2	92	1,2,3,4
EF-7	AEROVENT ATD 180B	GREASE EXHAUST - KITCHEN D101	NEW ROOF	PRV	2550	-	0.50	11.5	-	1	970	208/3/60	4.6	151	2,5,6,1
EF-8	AEROVENT PCU 110	CONDENSATE EXHAUST - KITCHEN D101	NEW ROOF	PRV	600	-	0.50	4.0	-	1/8	1025	120/1/60	3.8	72	2,3,4,6,12
EF-9	PANASONIC FV-0511VQ1	EXHAUST - RESTROOM D101A	RESTROOM D101A	CEILING	80	-	0.25	0.6	10.8	-	1172	120/1/60	0.27	9.3	7,8,14
EF-10	AEROVENT ACXD 120B	EXHAUST - GIRLS RR D102A, BOYS RR D102B, CUST. D102C, CHASE ENCLOSURE	NEW ROOF	PRV	550	-	0.30	6.0	-	1/8	983	120/1/60	3.8	92	1,2,3,4
EF-11	AEROVENT ACXD 130BE	EXHAUST - FACS D104	NEW ROOF	PRV	1440	-	0.35	13.5	-	3/4	1218	120/1/60	13.8	114	1,2,4,6,2
EF-12	PANASONIC FV-30VQ3	EXHAUST - WORKROOM D105	WORKROOM D107	CEILING	250	-	0.25	2.5	65.8	-	990	120/1/60	0.52	17.0	7,8,1
EF-13	AEROVENT PC-083	EXHAUST - SCIENCE PREP D106A	NEW ROOF	PRV	220	-	0.25	5.5	-	1/30	1445	120/1/60	3.0	63	1,2,3,4
EF-14	AEROVENT ACXD 130B	EXHAUST - SCIENCE D106	NEW ROOF	PRV	1080	-	0.35	10.4	-	1/4	1064	120/1/60	5.8	114	1,2,3,4
EF-15	AEROVENT AFE 90C6	EXHAUST - SCIENCE D106 FUME H00D	NEW ROOF	PRV	780	-	0.5	20.0	-	1/2	2706	120/1/60	9.8	557	2,4,6,
EF-16	AEROVENT ACXD 170B	EXHAUST - SHOP D103B	NEW ROOF	PRV	2200	1090	0.35	11.3	-	1	943	208/3/60	4.6	126	1,2,3,4
EF-17	PANASONIC FV-30VQ3	EXHAUST - WORK ROOM A101	WORK ROOM A101	CEILING	250	-	0.25	2.5	65.8	-	990	120/1/60	0.52	17.0	7,8,1
EF-18	AEROVENT ACXD 120B	EXHAUST - BOYS A102 & GIRLS A103	EXG ROOF	PRV	650		0.35	7.2	-	1/8	1089	120/1/60	3.8	92	1,2,3
EF-19	AEROVENT ACX 240D	EXHAUST - WELDING HOODS	NEW ROOF	PRV	4000		1.5	16.7	-	2	836	208/3/60	7.5	300	1,2,4,2
EF-20	AEROVENT ACX 300D	AREA A RELIEF	EXG ROOF	PRV	10000		0.25	16.4	-	2	732	208/3/60	7.5	350	1,2,9,
EF-21	AEROVENT PC 083	EXHAUST - AREA B&C CHASE INCLOSURE	EXG ROOF	PRV	200	-	0.25	5.1	-	1/30	1391	120/1/60	3.0	63	1,2,3,4
EF-A	BROAN MODEL 433004	RANGEHOOD EXHAUST	FACS D106	RANGE HOOD	190		0.1	7.0	207		-	120/1/60	1.8		16,17,

TISS: 1. PROVIDE AND INSTALL LINE VOLTAGE BACKDRAFT DAMPER (MATCH FAN VOLTAGE) TO BE INSTALLED IN THE ROOF CURB.
2. PROVIDE WITH FACTORY INSTALLED DISCONNECT.
3. PROVIDE WITH FACTORY WISED FAN SPEED CONTROLLER FOR BALANCING.
4. PROVIDE A INSTALL MINIMUM 2* HIGH, INSULATED FACTORY ROOF CURB. VERIFY SLOPE WITH GC PRIOR TO ORDERING.
5. PROVIDE A INSTALL MINIMUM 2* HIGH, INSULATED FACTORY ROOF CURB. VERIFY SLOPE WITH GCPA FERMINATION KIT AND HINGED BASE KIT.
6. ALL ROOFING WORK TO BE BY OTHERS (ROOFINS BID PACKAGE), VC, & TO TO CORDINATE.
7. PROVIDE WITH INTERBAL BACKRAFT FURDER, FACTORY PLOG DISCONNECT, AND ECM FAM MOTOR WITH 3 SPEED FAN SPEED CONTROLLER.
8. PROVIDE WITH INTERBAL BACKRAFT FOR PLOG DISCONNECT, AND ECM FAM MOTOR WITH 3 SPEED FAN SPEED CONTROLLER.
9. VC TO VERIFY EXISTING CONDITIONS, PROVIDE A INSTALL BROOF CURB B.
10. T.C. TO PROVIDE & INSTALL BRASCH GSEZ-MOL-24 NOZOO GAS DETECTOR WHERE SHOWN ON PLANS. WHEN SWITCH IS EMBALED, FAN TO BE EMBLED AT LOW SPEED INDICATED ON SCHEDULE.
11. T.C. TO PROVIDE & INSTALL BRASCH GSEZ-MOL-24 NOZOO GAS DETECTOR WHERE SHOWN ON PLANS. (24V POWER WIRING AND CONTROL WIRING BY TC). WHEN DETECTOR IS EMBLED, TC TO OVERRIDE FAN TO OPERANE WITH LIGHTED PLICE SHITCH WHERE SHOWN ON PLANS. WHEN SWITCH IS EMBALED, FAN TO BE EMBLED AT LOW SPEED INDICATED ON SCHEDULE.
12. FAN TO OPERANE WITH LIGHTED PLICT SHITCH BY E.C.
13. FAN TO OPERANE WITH LIGHTED PLICT SHITCH BY E.C.
14. FAN TO OPERANE WITH LIGHTED PLICT SHITCH BY E.C.
15. FAN TO OPERANE WITH LIGHTED PLICT SHITCH BY E.C.
16. FAN TO OPERANE WITH LIGHTED PLICT SHITCH BY E.C.
17. SCHEDULE DANGEROUS DISCONNESS OF THE PLICE SHITCH, WHERE NOTED ON PLANS, WALL SWITCH CONTROL TO BE INSTALLED FOR ADA COMPLIANCE BY EC (REPLACES) INTEGRAL TWO SPEED SWITCH)
18. REFER TO ARCHITECTURAL PLANS FOR HOOD INSTALLATION HEIGHT ABOVE COOKING SURFACE [18" WILHIMM, 25" MAXIMUM ABOVE COOKING SURFACE).
19. PROVIDE AND ISSTALL SHAPE OF THE FAN TO CONTROL WITH HIT WITH SAME STORE BY E.C.
20. T.C. TO PROVIDE A INSTALL BUT FOR DE SINSTALL BOY FOR THE FAN

QUIP. NO.	MANUFACTURER & MODEL	NOMINAL SIZE	THROAT SIZE	MAX CFM	MAX APD	THROW (50 FPM)	NC	FRAME	MATERIAL	FINISH	NOTI
S-1	TITUS TMS	24X24	6"Ø	100	0.03"	5'	< 10	LAY-IN	STEEL	WHITE	1
S-2	TITUS TMS	24X24	8"ø	230	0.04"	9'	14	LAY-IN	STEEL	WHITE	1
S-3	TITUS TMS	24X24	10"ø	410	0.06"	14'	20	LAY-IN	STEEL	WHITE	1
S-4	TITUS ML-39 3-SLOT	48" X 6-3/4"	47-1/4" X 5-7/8"	360	0.07"	22'	28	SURFACE	ALUMINUM	WHITE	1,
S-5	TITUS ML-39 1-SLOT	48" X 3-1/4"	47-1/4" X 2-3/8"	100	0.05"	16'	19	SURFACE	ALUMINUM	WHITE	1,
S-6	TITUS 300RL	8X6	6X4	50	0.04"	10'	< 10	SURFACE	STEEL	WHITE	1
S-7	TITUS 300RL	10X8	8X6	110	0.04"	15'	< 10	SURFACE	STEEL	WHITE	1
S-8	TITUS 300RL	12X10	10X8	200	0.04"	20 '	< 10	SURFACE	STEEL	WHITE	1
3-9	TITUS 300RL	16X12	14X10	350	0.04"	27'	13	SURFACE	STEEL	WHITE	1
-10	TITUS S300FL	16X10	14X8	265	0.04"	23 '	< 10	DUCT MTD	STEEL	WHITE	1,2
-11	TITUS PAS-AA	24X24	8X8	230	0.09"	12'	20	LAY-IN	STEEL	WHITE	
-12	TITUS PAS-AA	24X24	10X10	325	0.08"	14'	21	LAY-IN	STEEL	WHITE	
R-1	TITUS 350RL	24X12	22X10	800	0.07"		30	LAY-IN	STEEL	WHITE	1
R-2	TITUS 350RL	24X24	22X22	1800	0.07"		34	LAY-IN	STEEL	WHITE	1
R-3	TITUS 350RL	10X8	8X6	110	0.04"		20	SURFACE	STEEL	WHITE	1,:
R-4	TITUS 350RL	50X16	48X14	1480	0.02"		30	SURFACE	STEEL	WHITE	1
R-5	TITUS 33RS	38X98	36X96	9700	0.04"		27	SURFACE	STEEL	WHITE	
R-6	TITUS 350RL	24X8	22X6	250	0.02"		22	LAY-IN	STEEL	WHITE	1
E-1	TITUS 350FL	10X8	8X6	100	0.03"		19	SURFACE	ALUMINUM	WHITE	1,:
-2	TITUS 350FL	24X8	22X6	250	0.02"		22	LAY-IN	ALUMINUM	WHITE	1.
-3	TITUS 350FL	24X24	22X22	540	0.01"		22	LAY-IN	ALUMINUM	WHITE	1,:
E-4	TITUS 350FL	12X12	10X10	220	0.03"		22	SURFACE	ALUMINUM	WHITE	1
Г-1	TITUS 350RL	24X12	22X10	800	0.07"		30	LAY-IN	STEEL	WHITE	1,0
Γ-2	TITUS 350RL	24X24	22X22	1800	0.07"		34	LAY-IN	STEEL	WHITE	1,0
T-3	TITUS 350RL	18X18	16X16	500	0.02"		25	SURFACE	STEEL	WHITE	1.
T-4	TITUS MLR-39 2-SLOT	60" X 5"	59-1/4" X 4-1/8"	250	0.03"		15	SURFACE	ALUMINUM	WHITE	1.
Γ-5	TITUS MLR-39 2-SLOT	36" X 5"	35-1/4" X 4-1/8"	150	0.03"		13	SURFACE	ALUMINUM	WHITE	1
Г-6	TITUS 350RL	10X8	8X6	100	0.03"		19	SURFACE	STEEL	WHITE	1,

EQUIP.			COOLING	HEATING	REFRIGERA	ANT PIPING	ELI	CTRICAL			DIMENSIONS		UNIT	
NO.	MANUFACTURER & MODEL	SERVING	CAPACITY (BTU/HR.)	CAPACITY (BTU/HR @47F)	LIQUID	SUCTION	V./PH./CY.	FLA	MOCP	WIDTH	HEIGHT	DEPTH	WEIGHT (LBS)	NOTES
DSA-10A	SAMSUNG ACOO9BNNDCH/AA CEILING CASSETTE	SM GROUP A103A	9,100	10,000	1/4"	3/8"	208/1/60	0.3	N/A	22-5/8"	10"	22-5/8"	25.6	1,2,3,4
DSA-10B	SAMSUNG ACOO9BNNDCH/AA CEILING CASSETTE	SPEECH A103B	9,100	10,000	1/4"	3/8"	208/1/60	0.3	N/A	22-5/8"	10"	22-5/8"	25.6	1,2,3,4
DSA-10C	SAMSUNG ACOOSBNNDCH/AA CEILING CASSETTE	0T/PT A103C	9,100	10,000	1/4"	3/8"	208/1/60	0.3	N/A	22-5/8"	10"	22-5/8"	25.6	1,2,3,4
DSA-10D	SAMSUNG ACOO9BNNDCH/AA CEILING CASSETTE	CORRIDOR A199	9,100	10,000	1/4"	3/8"	208/1/60	0.3	N/A	22-5/8"	10"	22-5/8"	25.6	1,2,3,4
DSA-11A	SAMSUNG AC018BNNDCH/AA CEILING CASSETTE	SM GROUP A105	17,400	20,000	1/4"	1/2"	208/1/60	0.3	N/A	22-5/8"	10"	22-5/8"	26.0	1,2,3,4,
DSA-11B	SAMSUNG ACO18BNNDCH/AA CEILING CASSETTE	SPEECH A106	17,400	20,000	1/4"	1/2"	208/1/60	0.3	N/A	22-5/8"	10"	22-5/8"	26.0	1,2,3,4,

			DUCTI	ESS SPL	IT SY	STEM	OUTDOO	R U	NIT	SC	HEDUL	.E			DSC
EQUIP.			COOLING CAPACITY	HEATING CAPACITY	REFRIGERA	NT PIPING		LECTRIC	AL			DIMENSIONS		UNIT	
NO.	MANUFACTURER & MODEL	SERVING	(BTU/HR)	(BTU/HR @47F)	LIQUID	SUCTION	V./PH./CY.	FLA	MCA	MOCP	WIDTH	HEIGHT	DEPTH	WEIGHT (LBS)	NOTES
(2) 3/8 ²															1,2,3,4
DSC-11	SAMSUNG AJ036BXJ4CH/AA	DSA-11A/B	6,500 - 32,000	7,600 - 36,000	(2) 1/4"	(2) 1/2"	208/1/60	12.2	26.0	30	37"	39-5/16"	13"	168.7	1,2,3,4
2	. FURNISH AND INSTALL LINE SI . PROVIDE & INSTALL ALL REQU: . ROOFING WORK BY ROOFING CO CURB, AND INSTALL RL/RS NE	IRED ACCESSORIES NTRACTOR, ALL TRA	FOR MULTI ZONE CONFIG DES TO COORDINATE. S	URATION. EE REFRIGERATION RL/RS	S ROOF CURB DET		RUN LINE SETS TH			& INSTALL	MIN 18" HIGH	18X18 ROOF			

4. PROVIDE & INSTALL 24" MIN HIGH EQUIPMENT RAILS WITH VIBRATION ISOLATION SPRINGS FOR MOUNTING ON EXISTING FLAT ROOF.

				F	AN CO	IL S	CHE	DUL	E								FC
MANUFACTURER & MODEL	CEDVING	LOCATION	SUPPLY	0A	ESP	DX COOL THG		HEATI	NG COIL	(EWT = 1	80.0)		EL	ECTRICAL		WEIGHT	NOTES
MANUFACTURER & MUDEL	SERVING	LUCATION	(CFM)	(CFM)	(IN. W.G.)	MBH	мвн	EAT	LAT	LWT	GPM	WPD	V/PH/CY	MCA	MOCP	(LBS.)	NUTES
JCI FHP-D06	RMS A101,244, 245 & 266	WORK ROOM A101	500	140	0.25	N/A	28.7	43.8	96.4	160.0	3.0	5.3	120/1/60	2.5	15	59	1,4,5,6,7,8,9
JCI FNP12	ELEM FLEX A103	CORRIDOR A199	1000	290	0.25	27.9	46.9	40.0	81.3	160.0	4.7	4.0	120/1/60	9.63	15	246	1,2,3,4,5,6,7,8
. PROVIDE & INSTALL COOLING . PROVIDE WITH FACTORY MIX	G CONDENSATE & \ ING BOX WITH RET	/ENT DRAIN PIPIN FURN AIR AND OUT:	G PER MANUI SIDE AIR C	FACTURER'S ONTROL DAME	RECOMMENDATION	ONS & PLUMB					ON.						
3	JCI FNP12 . HORIZONTAL, CONCEALED FAI 2. PROVIDE & INSTALL COOLING 3. PROVIDE WITH FACTORY MIX.	JCI FHP-D06 RMS A101,244, 245 & 266 JCI FNP12 ELEM FLEX A103 . HORIZONTAL, CONCEALED FAN COIL UNIT WITH PROVIDE & INSTALL COOLING CONDENSATE AV PROVIDE WITH FACTORY MIXTM BOX WITH RET	JCI FHP-D06 RMS A101,244, 245 & 266 JCI FHP-D06 LELEM FLEX A103 CORRIDOR A199 - HORIZONTAL, CONCEALED FAN COIL UNIT WITH DIRECT DRIVE E - PROVIDE & INSTALL COOLING CONDENSATE & VENT DRAIN PIPIN - PROVIDE WITH FACTORY MIXING BOX WITH RETURN A1R AND OUT	MANUFACTURER & MODEL SERVING LOCATION AIR (CFM) JCI FHP-DO6 RMS A101,244, 245 & 266 JCI FNP12 ELEM FLEX A103 CORRIDOR A199 1000 . HORIZONITAL, CONCEALED FAM COIL UNIT WITH DIRECT DRIVE ECW FAM MOTE 2. PROVIDE & INSTALL COOLING CONDENSATE & VENT DRAIN PIPING PER MANUI. PROVIDE WITH FACTORY MIXING BOX WITH RETURN AIR AND OUTSIDE AIR CO	MANUFACTURER & MODEL SERVING LOCATION AIR (CFM) JCI FHP-D06 RMS A101,244, 245 & 266 JCI FHP12 ELEM FLEX A103 CORRIDOR A199 1000 290 HORIZONTAL, CONCEALED FAN COIL UNIT WITH DIRECT DRIVE ECM FAN MOTOR. PROVIDE PROVIDE & INSTALL COOLING CONDENSATE & VENT DRAIM PIPING PER MANUFACTURER: S PROVIDE WITH FACTORY MIXING BOX WITH RETURN AIR AND OUTSIDE AIR CONTROL DAME	MANUFACTURER & MODEL SERVING LOCATION AIR (CFM) (CFM)	MANUFACTURER & MODEL SERVING LOCATION SUPPLY GA (CFM) (CFM) (IN. W.G.) COOLING MBH	MANUFACTURER & MODEL SERVING LOCATION ATR (CFM) (CFM) (IN. W.G.) DX COOLING MBH JCI FHP-D06 RMS A101,244, 245 & 266 WORK ROOM A101 500 140 0.25 N/A 28.7 JCI FHP12 ELEM FLEX A103 CORRIDOR A199 1000 290 0.25 27.9 46.9 . HORIZONTAL, CONCEALED FAN COIL UNIT WITH DIRECT DRIVE ECM FAN MOTOR. PROVIDE & INSTALL VIBRATION ISOLATION PROVIDE & INSTALL COOLING COMBENSATE & VEHT DRAIN PIPING PER MANUFACTURER'S RECOMMENDATIONS & PLUMBING CODE. PROVIDE WITH FACTORY MIXING BOX WITH RETURN AIR AND OUTSIDE AIR CONTROL DAMPERS.	MANUFACTURER & MODEL SERVING LOCATION SUPPLY ATR (CFM) (CFM) (CFM) (CFM) (N. W.G.) (CFM) (MBH EAT MBH EAT (CFM) (MBH EAT (CFM) (MBH EAT (MBH EAT	MANUFACTURER & MODEL SERVING LOCATION AIR (CFM) (CFM) (CFM) (IN. W.G.) COLING MIGH MBH EAT LAT JCI FHP-DD6 RMS A101,244, 245 & 266 DCR CARROLL REPORT AND A101 SOO 140 0.25 N/A 28.7 43.8 96.4 JCI FHP-DD6 LEMENT FLORE FLORE A103 CORRIDOR A199 1000 290 0.25 27.9 46.9 40.0 81.3 - HORIZONTAL, CONCEALED FAN COLI UNIT WITH DIRECT DRIVE EGM FAN MOTOR. PROVIDE & INSTALL VIBRATION ISOLATION HANGERS FOR INS 2. PROVIDE WITH FACTORY MIXING BOX WITH RETURN A1R AND OUTSIDE AIR CONTROL DAMPERS.	MANUFACTURER & MODEL SERVING LOCATION SUPPLY OA (CFM) OA (CFM)	MANUFACTURER & MODEL SERVING LOCATION SUPPLY OA (CFM) (CFM) (IN. W.G.) DX COOLING MBH EAT LAT LWT CPM	MANUFACTURER & MODEL SERVING LOCATION ATR (CFM) (CFM) (CFM) (CFM) (CFM) (MBH MBH EAT LAT LWT GPM WPD	MANUFACTURER & MODEL SERVING LOCATION SUPPLY AIR (CFM) OA (CFM) (CFM) (N. W.G.) COULING MBH EAT LAT LWT CFM WPD V/PH/CV	MANUFACTURER & MODEL SERVING LOCATION SUPPLY AIR (CFM) OA (CFM) (CFM) (N. W.G.) OOLING MBH EAT LAT LAT	MANUFACTURER & MODEL SERVING LOCATION SUPPLY AIR (CFM) OA (CFM) (CFM) (N. W.G.) OBJECT (CFM) OA (CFM)	MANUFACTURER & MODEL SERVING LOCATION SUPPLY AIR (CFM) OA (CFM) (IN. W.G.) COULING MBH EAT LAT LWT CFM CFM WPD V/PH/CV MCA MOCP (LBS.)

PROVIDE WITH 2" (MENW 8) SIDE ACCESS FILTERS AND (1) ADDITIONAL SET OF DISPOSABLE FILTERS.
 LH OR RH CONNECTION ON COIL PIPTIO VARIES, SEE PLANS. COORDINATE HANDING WITH THE PC PRIOR TO ORDERING.
 PERFORMANCE BASED ON FUTURE 30% PROPYLER GLYCOL (PROPOSED SYSTEM TO BE 100% INHIBITED WATER).
 PROVIDE WITH FACTORY INSTALLED TOOGLE DISCONNECT SWITCH.

8. SEE FAN COIL PIPING DETAIL.
9. VC TO PROVIDE & INSTALL REMOTE 24V RETURN AIR AND OUTSIDE DAMPERS IN EXISTING DUCTWORK. RETURN AIR TO BE NORMALLY OPEN, OUTSIDE AIR TO BE NORMALLY CLOSED. TC TO PROVIDE ACTUATOR AND CONTROL.

		A	IR COOL	ED CONDE	NSING U	NIT SCH	DULE			(
EQUIP	HANNIFACTURER & HORE!	SERVICE		COOLING			ELECTRICAL		WEIGHT	NOTES
NO.	MANUFACTURER & MODEL	SERVICE	AMB. TEMP	BTU/HR	SEER	V./PH./CY.	MCA	MOCP	(LBS.)	NUTES
CU-A103	FRASER-JOHNSTON TC17B3621S	FC-A103	95.0	32,100	17.0	208/1/60	21.4	35	265	1,2,3,4,5
NOTES: 1.	PROVIDE & INSTALL LIQUID LINE FILT	ER DRYER, ANTI-SHO	RT CYCLE TIMER, TX	/ KIT, LOW AMBIENT (CONTROL, RUBBER ISO	LATION KIT, & CRANK	CASE HEATER.			
2.	PROVIDE & INSTALL HARD START KIT A	ND LIQUID LINE SOL	ENOID VALVE.							
3.	PROVIDE & INSTALL PRE-INSULATED RE	FRIGERANT LINESETS	. LINESETS AND IN	SULATION TO BE UV RE	SISTANT.					
4.	ROOFING WORK BY ROOFING CONTRACTOR, A	LL TRADES TO COORDINA	ATE. SEE REFRIGERATI	ON RL/RS ROOF CURB DET	TAIL FOR LINESETS/POWE	ER TO CU THRU ROOF. P	ROVIDE & INSTALL MIN	18" HIGH 18X18 ROOF		

NOUTING UNDER BY HOUTING CONTINUOUS, REL INFOURCE OF COUNTINIES. SEE HERIZORIAION HERS WOOT COME DETAIL FOR LINESSE
CURB, AND INSTALL RIPS NEATLEY ON PER LAMBUFACTURED ROOF BLOCK(S) WITH UNISTRIT SUPPORT.
 PROVIDE & INSTALL 24* MIN HIGH EQUIPMENT RAILS WITH VIBRATION ISOLATION SPRINGS FOR MOUNTING ON EXISTING FLAT ROOF.

				INT	AKE HO	OD SCH	EDULE					(IH)
	QUIP. NO.	MANUFACTURER & MODEL	LOCATION	SERVING	CFM	S.P. (IN. H ₂ 0)	FACE VELOCITY (FPM)	THROAT SIZE	THROAT VELOCITY (FPM)	UNIT WEIGHT (LBS)	BIRD/ INSECT SCREEN	NOTES
	IH-1	ACME MANUFACTURING TIV	EXG FLAT ROOF	FC-A103 OUTSIDE AIR INTAKE	1000	0.01	155	21X21	327	130	Y/N	1,2,3
NO		ALUMINUM CONSTRUCTION WIT PROVIDE NEOPRENE GASKET F PROVIDE WITH MINIMUM 18"	OR CURBS AND MINI	RACING & OVERHANG FOR STORM PR MUM 24" THROAT.	OTECTION.							

			SLOTTE	D FUN	ME EXH	AUST H	100D \$	SCHED	ULE				HD
EQUIP. NO.	MANUFACTURER & MODEL	SERVING	LOCATION	EXHAUST AIR (CFM)	STATIC PRESSURE LOSS (IN. W.G.)	EXHAUST AIR CONNECTION (IN. DIAM)	WIDTH (IN)	DEPTH (IN)	HEIGHT (IN)	NO. OF SLOTS	SLOT HEIGHT (IN)	UNIT WEIGHT (LBS)	NOTES
D-A	VENTAIRE FEH4	WELDING STATION	SHOP D103B	1,000	1.5	8	45"	8"	34"	4	13/32	-	1,2,3
	1. PRE-MANUFACTURED SLO 2. PROVIDE SLOTTED HOOD 3. PROVIDE & INSTALL BLO	BASE CONSTRUCTED OF 1	18 GAUGE GALVANIZE		20 GAUGE GALVA	NIZED STEEL TR	ANSITIONS.						

			HVA	AC SHEET	METAL	. שטכוו	WUKK C	UNSTRU	CITON	& INSUL	AITON S	SCHEDU	LE			
	DI	JCTWORK						INSULATION	THICKNESS (E	XTERIOR WRAP UNL	ESS OTHERWISE N	OTED)				
SYSTEM	MAX DIMENSION OF RECTANGULAR DUCTS OR DIAMETER OF ROUND DUCTS	GALVANIZED SHEET METAL GAUGE NUMBER	PRESSURE RATING	CONSTRUCTION	RECTANGULAR SUPPLY AIR BEFORE VAV	ROUND SUPPLY AIR BEFORE VAV	RECTANGULAR SUPPLY AIR AFTER VAV	ROUND SUPPLY AIR AFTER VAV	RETURN AIR	EXHAUST AIR DUCT (INCLUDING FUME HOOD EXHAUST)	EXHAUST AIR DUCT SERVING WELDING HOODS IN SHOP	TRANSFER AIR	PLENUM TO PLENUM Transfer Sleeves	OUTSIDE AIR	RELIEF AIR	NOTES
	UP THRU 12"	26		WHEN LONGEST						1-1/2"	1-1/2" FULL LENGTH OF					
LOW	OVER 12" THRU 30"	24		SIDE IS 36" OR GREATER, SHALL						WITHIN 15' OF POWER	RECTANGULAR DUCT,					1,2,
PRESSURE	OVER 30" THRU 54"	22	2" W.G.	BE CONSTRUCTED USING DUCTMATE	-	-	1/2" LINER	1-1/2"	1/2" LINER	ROOF VENTILATOR	EXPOSED	1/2" LINER	1/2" LINER	2"	2"	3,4,5,
DUCTWORK	OVER 54" THRU 84"	20		35/25 SLIDE ON SYSTEM, TDF						OR FUME HOOD EXHAUST	SPIRAL RUNOUTS					7,8
	OVER 84"	18		FLANGE						(SEE NOTE 7)	UN-INSULATED PAINTGRIP					
	UP THRU 18"	24		SHALL BE												
MEDIUM	OVER 19" THRU 48"	22	3" W.G.	CONSTRUCTED USING DUCTMATE	1.1/01	1 1/0										1,2,
PRESSURE DUCTWORK	OVER 48" THRU 72"	20	3- W.G.	35/25 SLIDE ON SYSTEMS, TDF	1-1/2"	1-1/2"	-	-	-	-		-	-	-	-	3,6, 8
	OVER 73" THRU 96"	18	1	FLANGE												

2. ALL DUCTWORK 18" AND GREATER IN WIDTH SHALL BE CROSS-BROKEN.

2. ALL DUCTWORN 18" AND GREATER IN WIDTH SHALL BE CROSS-SROKEN.

3. ALL SYSTEMS TO BE COMPLETELY INSULATED WISS OFFERNISE NOTED.

4. CONCEALED DUCTS MAY BE INSULATED WITH RIGID BOARD OR FLEXIBLE FIBERGLASS INSULATION. EXPOSED DUCTS SHALL BE INSULATED WITH RIGID BOARD FIBERGLASS INSULATION ONLY. EXHAUST DUCTS IN SHOP, AND MEDIUM PRESSURE SUPPLY AIR IN COMMONS CIO1 ARE CONSIDERED EXPOSED AND MUST BE INSULATED WITH RIGID INSULATION. DO NOT INSULATE LOW PRESSURE ROUNDS EXPOSED IN COMMONS CIO1. ALL DUCTWORK ABOVE CLOUDS IN COMMONS CIO1 TO BE INSULATED AS NORMAL.

5. ALL EXPOSED UNINSULATED DUCTWORK ROUTED EXPOSED AND ABOVE COMMONS CIO1 CLOUD CEILING SHALL BE INSULATED WITH RIGID BOARD INSULATION.

6. MEDIUM PRESSURE DUCTWORK ROUTED EXPOSED AND ABOVE COMMONS CIO1 CLOUD CEILING SHALL BE INSULATED WITH AIR FIRE BARRIER DUCT WRAP 15A OR EQUAL.

8. ALL DUCTWORK ROUTED OUTSIDE SHALL BE INSULATED WITH 2" RIGID INSULATION WITH VENTURECLAD 1577OW SMOOTH JACKETING ON ALL SIDES, THROUGH EXTERIOR WALL PENETRATION.

TOP OF ALL EXTERIOR DUCTWORK SHALL BE CROWNED (PITCHED) TO ALLOW WATER RUNOFF AND PREVENT POOLING.

	PIPING		INSU	LATION THICK	IESS	
SYSTEM	TYPE/MATERIAL	FITTINGS	PIPE SIZES 1" OR SMALLER	PIPE SIZES 1-1/4" TO 2"	PIPE SIZES 2-1/2" AND LARGER	NOTES
DOMESTIC COLD, HOT, AND HOT RECIRC	TYPE L COPPER	SOLDER, PRO-PRESS	1/2"	1"	1-1/2"	1,2
BELOW GRADE STORM PIPING	SEE SPECIFICATIONS (SCH 40 PVC WHERE PERMITTED)	SEE SPECIFICATIONS (SCH 40 DWV SOLVENT WELD WHERE PERMITTED)		NONE		1,3
ABOVE GRADE STORM PIPING	SEE SPECIFICATIONS (SCH 40 PVC WHERE PERMITTED)	SEE SPECIFICATIONS (SCH 40 DWV SOLVENT WELD WHERE PERMITTED)		1"		1,3
BELOW GRADE SANITARY WASTE & VENT PIPING	SEE SPECIFICATIONS (SCH 40 PVC WHERE PERMITTED)	SEE SPECIFICATIONS (SCH 40 DWV SOLVENT WELD WHERE PERMITTED)		NONE		1
ABOVE GRADE SANITARY WASTE & VENT PIPING	SEE SPECIFICATIONS (SCH 40 PVC WHERE PERMITTED)	SEE SPECIFICATIONS (SCH 40 DWV SOLVENT WELD WHERE PERMITTED)	NONE	, WITH EXCER SEE NOTE 3		1,3
CONDENSATE DRAIN PIPING/VENTING	TYPE M COPPER, SCH 40 PVC OR ABS WHERE PERMITTED	SOLDER, PRO-PRESS, SOLVENT WELD		1/2"		1,3
HOT WATER SUPPLY,	TYPE L COPPER, SCH 40 BLACK STEEL	SOLDER, PRO-PRESS, SEE SPECS FOR STEEL FITTINGS	1/2"	1"	1-1/2"	1,2

			NATURAL	GAS	S WAT	ΓER	HE	ΑΊ	ER	SCH	IED	ULE				EXG & WH-1	WH
				STORAGE	RECOVERY @					ELECTRIC	AL	PIPING CO	NNECTIONS	DIMEN	NSIONS	SHIPPING	
EQUIP. NO.	MANUFACTURER & MODEL	SERVING	LOCATION	CAPACITY (GAL.)	100F RISE (GPH)	FUEL	INPUT	(MBH)	AFUE %	V./PH./CY.	AMPS	C.W.	H.W.	HEIGHT (IN)	DIA. (IN)	WEIGHT (LBS)	NOTES
EXG WH - 1	HTP PH199-119	DOM HOT WATER 140°F	BOILER C107	119	230	NAT GAS	40 -	199	96	120/1/60	-	1-1/2"	1-1/2"	74	27	405 + WATER	1
WH-2	HTP PH199-119	DOM. HOT WATER 140°F	BOILER C107	119	230	NAT GAS	40 -	199	96	120/1/60	-	1-1/2"	1-1/2"	74	27	405 + WATER	2,3,4 5,6,

1. PC TO RELOCATE EXISTING UNIT, FOR REFERENCE ONLY. PC TO INSTALL NEW 4" PVC VENT & COMBUSTION AIR THRU ROOF.
2. PROVIDE & INSTALL 4" PVC SEALED COMBUSTION AIR AND 4" PVC DIRECT VENT THROUGH ROOF AS PER THE MANUFACTURER'S RECOMMENDATIONS. CONCENTRIC KIT SHALL NOT BE ACCEPTABLE.
3. SEE MODIFICATIONS TO EXISTING NATURAL GAS WATER HEATER PIPING DIAGRAM.
4. PROVIDE & INSTALL CONDENSATE DRAIN PIPING WITH CONDENSATE NEUTRALIZER TO FLOOR SINK PER MANUFACTURER'S RECOMMENDATIONS. CONDENSATE DRAIN PIPING TO BE SUPPORTED APPROXIMATELY 6" ABOVE FINISHED FLOOR WITH SPLIT RING STANDOFFS WITH ELBOW DOWN TO EXISTING FLOOR DRAIN SUCH THAT CONDENSATE DOES NOT POOL ON FLOOR. ROUTE CONDENSATE PIPING ALONG BACK WALL TO MINIMIZE TRIP HAZARDS.
5. 4" POUNED CONCRETE HOUSEKEEPING PAD BY PC. PAD TO ACCOMMINDATE WATER HEATERS & FLOOR MOUNTED EXPANSION TANK ET-2.
6. DOWLESTIC HOT WATER TO BE STORED AT 140°F.
7. PROVIDE & INSTALL WATES INTELLISTATION. BLEISTONY DIGITAL WATER REPERING SYSTEM WITH DIGITAL MIXED DIVISION BY A POUNTED & INSTALLED BY EC. . DOMESTIC HOT WATER TO BE STORED AT 140°F.
. PROVIDE & INSTALL WATER TO BE STORED AT 140°F.
. DOMESTIC HOT WATER TO BE STORED AT 140°F AND TEMPERED TO 120°F, CONTROLLED BY EC.

						WA	ATER	SOF	TENER	SCH	EDULE							(WS
EQUIP.	MANUFACTURER	SERVING	LOCATION		SOFTENER CAPACITY	CONTINUOUS SERVICE	BACKWASH RATE	RESIN VOLUME	BRINE TANK SALT	TANK CONFIG.	CONTINUOUS FLOW	PIP		FLOOR SPACE REQUIREMENTS	SYSTEM DRY	ELECT	RICAL		NOTES
NO.	& MODEL	SERVING	LOCATION	GRAINS	SALT DOSAGE LBS/CU.FT	FLOW RATE (GPM)	(GPM)	(CU.FT)	CAPACITY (LBS)	CONFIG.	PRESSURE DROP (PSI)	CW IN/OUT	DRAIN	(L X W X H IN INCHES)	WEIGHT (LBS)	V./PH./CY.	МОР	FLA	NUTES
WS - 1	CULLIGAN SOO10441 WITH FRP VESSEL	KITCHEN DISHWASHER HOT WATER	KITCHEN D101	31,736	12	5.0	2.4	0.5	200	SIMPLEX	10	1"	1/2"	30"X18"X28"	150	120/1/60	5	3.5	1,2
NOTES:	1. PROVIDE UNI 2. PROVIDE WIT										OR), AND 10% C			SS VALVE, AND PR	E-WIRED P	OWER CABLE.			

				NA	TURAL	GAS	BOILE	R SC	HED	ULE					B →
EQUIP.				SYSTEM	RELIEF	INPUT	OUTPUT		MIN	VOLUME		MOTOR		UNIT	
NO.	MANUFACTURER & MODEL	LOCATION	MEDIA	PRESSURE (PSI)	PRESSURE (PSI)	MBH	МВН	AFUE %	EWT	(GAL)	HP	V./PH./CY.	FLA	WEIGHT (LBS)	NOTES
B-1	THERMAL SOLUTIONS EVS-1500	MECH/ELEC ROOM	30% GLYCOL	30	75	500-1500	417-1,251	87%	135°F	17.4	1-1/2	120/1/60	7.5	1,327 +FLUID	1,2,3,4,5,6, 7,8,9,10,11,12
B-2	THERMAL SOLUTIONS EVS-1500	MECH/ELEC ROOM	30% GLYCOL	30	75	500-1500	417-1,251	87%	135°F	17.4	1-1/2	120/1/60	7.5	1,327 +FLUID	1,2,3,4,5,6, 7,8,9,10,11,12
OTES:	UNITS SHALL BE COMPL PER MFG'S RECOMMENDA ADJACENT COMBUSTION PC TO PROVIDE & INST ON PLANS. ROOFING W	TIONS, VC TO PRO AIR GOOSNECK PER ALL 8" SCH.40 PV	VIDE & INSTA MANUFACTUR C COMBUSTION	ALL 6" AL29- ER'S RECOMME	4C DOUBLE WA	LL (1" AIR GAP NSTALL GUY WIR) VENT THRU R ES IF REQUIRE	OOF. SEE P D BY VENTI	LANS FOR NG MANUF	VENT LENGT ACTURER.	HS. TERM		IN CAP 2	4" ABOVE TOP	OF

HAZARDS.

5. SEE HEATING WATER SYSTEM PIPING DIAGRAM.
6. INSTALL ON EXISTING 4* POURED CONCRETE HOUSEKEEPING PAD. EXTEND PAD AS NECESSARY TO ACCOMMODATE PUMPS, PUMP CLEARANCES, & BOILER CLEARANCES, SEE PLANS.
7. PROVIDE FACTORY AUTHORIZED STARTUP.
8. PROVIDE AND INSTALL BOILER DRAIN VALVE AND EXTEND TO EXISTING FLOOR DRAIN. DRAIN PIPING TO BE SUPPORTED APPROXIMATELY 6" ABOVE FINISHED FLOOR WITH SPLIT RING STANDOFFS WITH ELBOW DOWN ONTO CENTER OF EXISTING FLOOR DRAIN SUCH THAT DRAINAGE DOES NOT POOL ON FLOOR OR TOP LEDGE OF FLOOR DRAIN. ROUTE PIPING TO MINIMIZE TRIP HAZARDS.
9. PERFORMANCE BASED ON 30% PROPYLENE GLYCOL.
10. PROVIDE WITH FULL LOCKUP GAS REGULATOR. 11. PROVIDE WITH FACTORY INSTALLED LOW WATER CUT OFF.
12. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES.

				P	UMP :	SCHEDU	JLE					EXG CP-5 & CP
EQUIP.					HEAD			E	LECTRICAL			
NO.	MANUFACTURER & MODEL	SERVING	LOCATION	GPM	(FEET)	TYPE	HP (W)	RPM	V./PH./CY.	FLA	WEIGHT (LBS)	NOTES
CP-1	BELL & GOSSETT E-90 2AAB	BOILER CIRCULATOR FOR B-1	BOILER C107	125	20 '	IN-LINE	1-1/2	1800	208/3/60	6.6	67	1,2,8
CP-2	BELL & GOSSETT E-90 2AAB	BOILER CIRCULATOR FOR B-2	BOILER C107	125	20 '	IN-LINE	1-1/2	1800	208/3/60	6.6	67	1,2,8
CP-3	BELL & GOSSETT E-1510 2BD	PRIMARY HEATING WATER LOOP	BOILER C107	180	80 '	BASE MOUNTED END SUCTION	7-1/2	1800	208/3/60	24.2	342	1,2,3,4,5,6,7,8
CP-4	BELL & GOSSETT E-1510 2BD	BACKUP HEATING WATER LOOP	BOILER C107	180	80 '	BASE MOUNTED END SUCTION	7-1/2	1800	208/3/60	24.2	342	1,2,3,4,5,6,7,
EXG CP-5	ARMSTRONG E13.2B	EXG WH-1 DOM. RECIRC	BOILER C107	3.0	9'	IN-LINE	1/6	3400	120/1/60	2.0	14.8	1,10,12
CP-6	ARMSTRONG R40-45 SS	WH-2 DOM. RECIRC	BOILER C107	4.5	25 '	IN-LINE	1/6	4000	120/1/60	2.0	10.21	1,10,11
3 4 5 6 7 8 9	PERFORMANCE BASED ON 30 T.C. TO PROVIDE VFD, E. PROVIDE & INSTALL TRIPL PROVIDE WITH SHAFT GROU PC TO PROVIDE LASER ALT PC TO PROVIDE 4" CONCRE SEE HEATING WATER SYSTE SEE MODIFICATIONS TO NA	C. TO INSTALL. E DUTY VALVE AND SUCTION DIFFU: NOING KITS. GAMENT IN FIELD. TE HOUSEKEPING PAD (PAD IN BO: MM PIPING DIAGRAM. TURNER AS WATER HEATER PIPING I STEEL CONSTBUCTION AND PROVIDI	SER. ILER C107 TO ACCOMM	NODATE ALL PU	MPS, BOILERS	EXPANSION TANK,	AND BYPASS		,	PC.		

					ANSION	• • • • • • • • • • • • • • • • • • • •		•••·· •							
EQUIP.	MANUFACTURER & MODEL	SERVING	LOCATION	CALCULATED SYSTEM VOLUME	SYSTEM VOLUME WITH SAFETY	TEMP RA	NGE (°F)	PRESSURE RA	ANGE (PSIG)	REQ'D TANK	REQ'D ACCEPTANCE	ACTUAL TANK	ACTUAL ACCEPTANCE	SHIPPING WEIGHT	NOTE
NO.	MANUFACTURER & MODEL	SERVING	LUCATION	(GAL)	FACTOR (GAL)	MAX	MIN	MAX	MIN	VOLUME (GAL)	VOLUME (GAL)	VOLUME (GAL)	VOLUME (GAL)	(LBS)	NOTE
ET-1	BELL & GOSSETT B200	NEW HEATING WATER LOOP	BOILER C107	715	820	180	40	75	12	51.37	36.08	53.0	53.0	285 + WATER	1,2,3 4,5,
ET-2	AMERICAN WHEATLEY BDT-013	DOMESTIC WATER SYSTEM	BOILER C107	-	-	240	40	150	12	13	13	13	13	50 + WATER	7,8
	1. UNIT TO BE FLOOR MOUNTE! 2. EXPANSION TANK SIZING SI 3. PC TO PROVIDE & INSTALL 4. SEE HEATING WATER SYSTE! 5. PROVIDE & INSTALL B&G R 6. THE HEATING EXPANSION T. PROVIDE POTABLE WATER A: 8. SEE MODIFICATIONS NATUR.	HALL BE BASED ON 30% 4" HIGH POURED CONCR M PIPING DIAGRAM. -4 4" AIR SEPARATOR W NANK HAS BEEN SIZED FO BME RATED FULL ACCEPT	PROPYLENE GLYCOL. ETE HOUSEKEEPING PA ITH STRAINER WITH F R 820 GALLONS, WHIC ANCE REPLACEABLE EF	D. ROPER SERVICE CLE H IS INCLUDES THE	ADDITION, REMODEL	AND EXISTI	NG ELEMENTA	RY VOLUME OF 27		NK PER MANU	IFACTURER'S REQU	JIREMENTS.	F 715 GALLONS.	Z	2

EQUIP.	MANUFACTURER & MODEL	LOCATION	CFM	МВН	GPM	LAT	EWT	LWT	WPD		ELECTRI	CAL		RUNOUT SIZE	UNIT WEIGHT	NOTES
NO.	MARIO ACTORER & MODEL	LOOATION	O1 III		u	LA.			(FT)	HP	V/PH/CY	RPM	FLA	HONOUT GIZE	(LBS)	HOTEG
CUH-C100A	SIGMA SFF-A-10-SRI	VEST. C100B	1000	69.2	8.167	126.4	180	160.0	1.591	1/6	120/1/60	1500	2.0	1-1/4"	150 + WATER	1,2,3,4,5,6,7
CUH-C100B	SIGMA SFF-A-04-SRI	VEST. C100A	400	33.5	4.0	140.2	180	160.0	2.39	1/10	120/1/60	1075	1.7	1"	125 + WATER	1,2,3,4,5,6,7
CUH - D100	SIGMA SFF-A-04-SRI	VEST. D100	400	33.5	4.0	140.2	180	160.0	2.39	1/10	120/1/60	1075	1.7	1"	125 + WATER	1,2,3,4,5,6,7

				RA	DIANT	PANEL	SCHED	JLE					RI
EQUIP. NO.	MANUFACTURER & MODEL	LOCATION	PANEL QTY IN ZONE	BTU/HR PER PANEL	BTU/HR PER PANEL GROUP	AVG GPM PER PANEL	GPM PER PANEL SERIES	PRESSURE DROP PER PANEL (FT)	AVG. WATER TEMP	OVERALL WIDTH	OVERALL LENGTH	FINISH	NOTE
RP - 1	AIRTEX HPH2448	BOYS RR C109A	1	1,500	1,500	0.5	0.5	0.23	170	24"	48"	WHITE	1,2,
RP - 1	AIRTEX HPH2448	GIRLS RR C111A	1	1,500	1,500	0.5	0.5	0.23	170	24"	48"	WHITE	1,2,

EQUIP. NO.	MANUFACTURER & MODEL	TYPE AND/OR MOUNTING	CAPACITY (BTU/HR)	LOCATIONS	AVG WATER TEMP. (°F)	FLOW GPM/ FOOT	ELEMENT						ENCLOSURE				
							TUBE SIZE	FIN SIZE	FINS/FT	BTU/FT	LENGTH	ROWS	GAUGE	LENGTH	HEIGHT	DEPTH	NOTES
RAD-XI	SIGMA SWE-12S-44C075	CU-AL / STYLE "S" SLOPE TOP	VARIES	MULTIPLE LOCATIONS	170	0.1	3/4"	4" SQ.	48	1,118	SEE PLAN	1	16	SEE PLAN	12"	5-1/4"	1,2,3,4,5

1108 S. Main St. 102 Aberdeen, SD 57401 Phone: 605-725-4852

601 Kansas City St. 7 Rapid City, SD 57701 Phone: 605-716-3652

440 E. 8th St 221 Sioux Falls, SD 57103 Phone: 605-334-9999

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SICHMELLER Mechanical & Electrical Engineering

801 Railroad Ave. SE Aberdeen, SD 57401 Phone: 605-225-4344 www.siceng.biz

SE PROJECT NO: 220900771

ISSUE:

1/30/23 CONSTRUCTION DOCUMENTS

REVISION SCHEDULE:

REV. # REV. DSC. REV. DATE Addendum ME 1 02-16-23 Addendum ME2 2-23-23

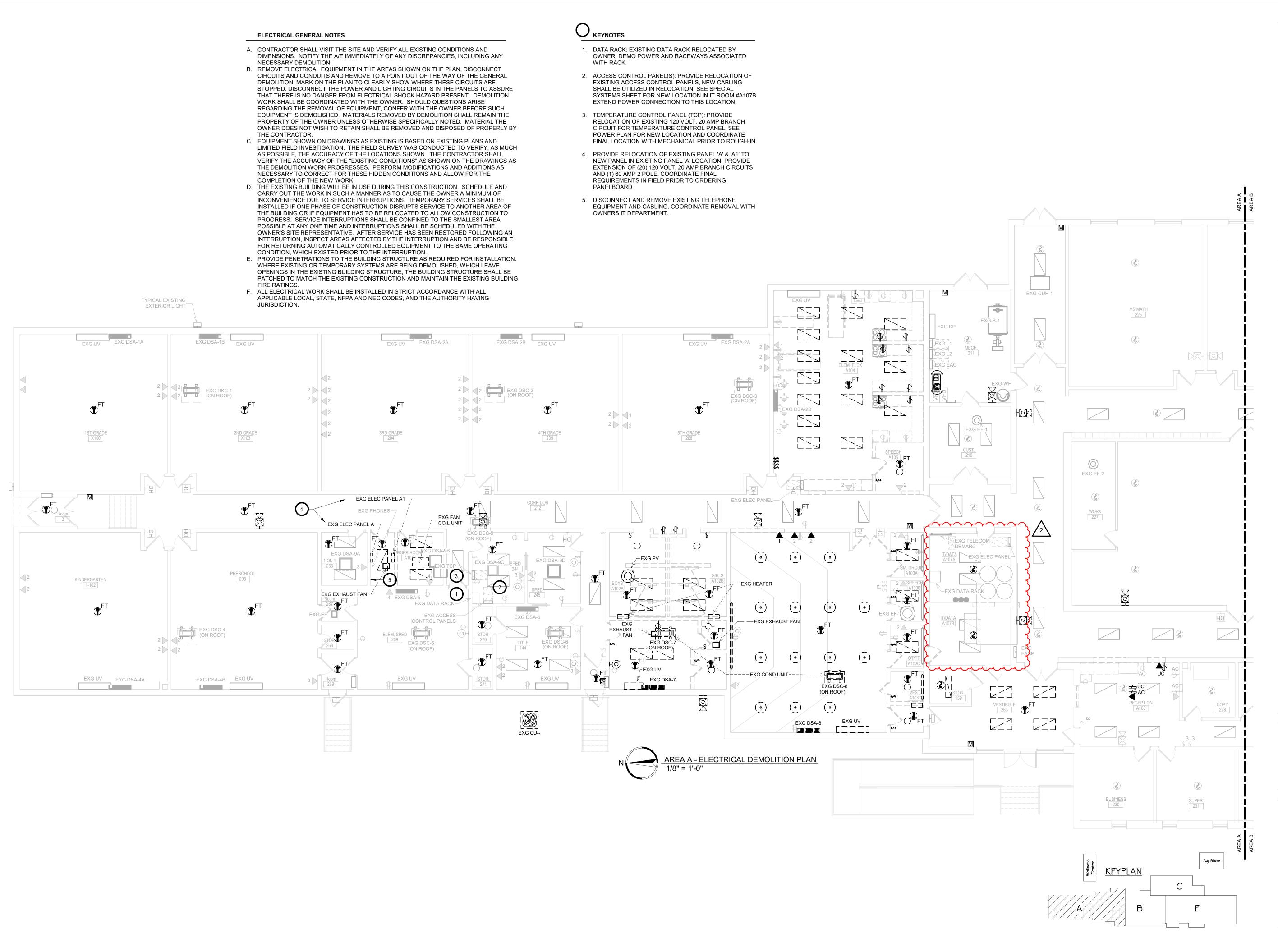
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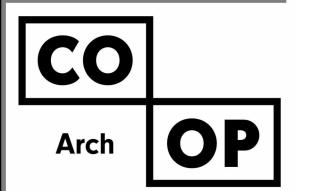
WILLOW LAKE SCHOOL ADDITION

WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

MECHANICAL SCHEDULES





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601 Kansas City St. 7 Rapid City, SD 57701 Phone: 605-716-3652

440 E. 8th St 221 Sioux Falls, SD 57103 Phone: 605-334-9999

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REVISION SCHEDULE:

EV. # REV. DSC. REV. DATE 2 Addendum ME2 2-23-23

PROJECT:

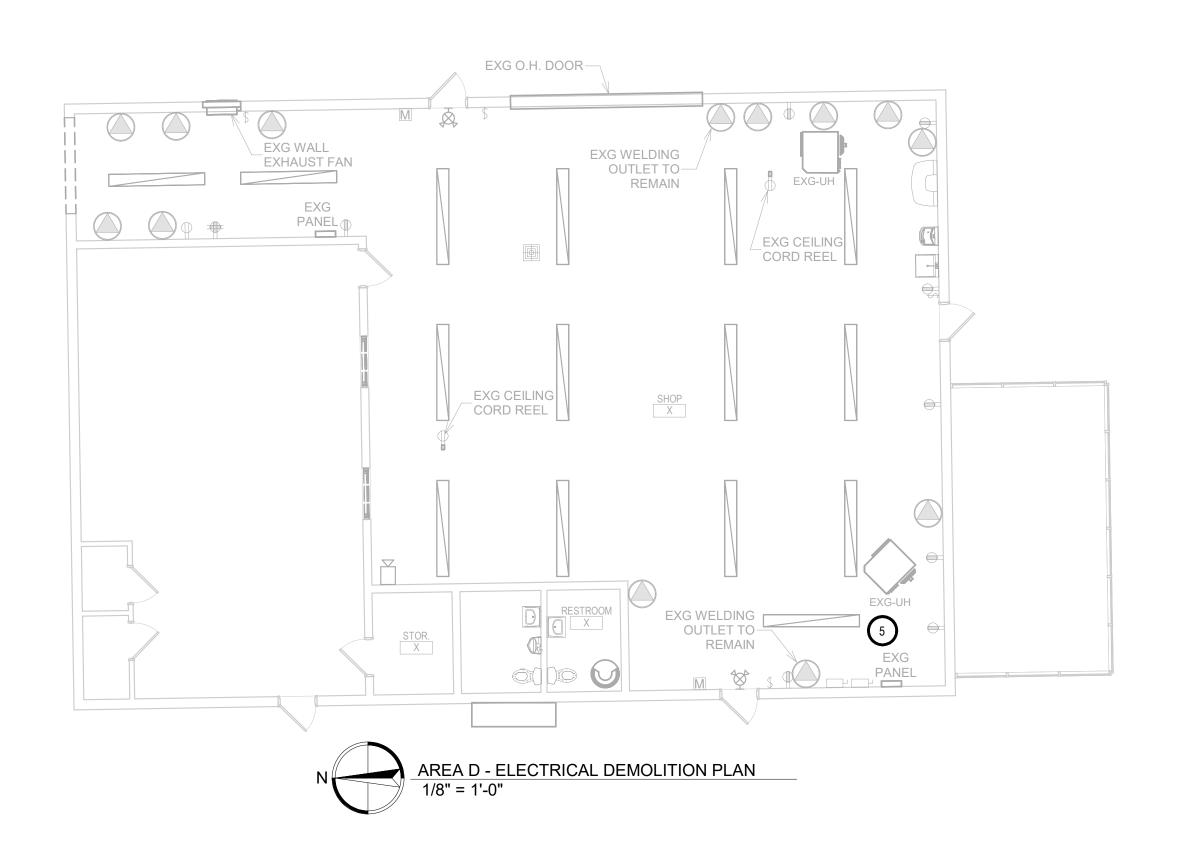
WILLOW LAKE SCHOOL ADDITION

WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

AREA A - ELECTRICAL DEMOLITION PLAN

E200A





-TO AG SHOP

- 1. ELECTRICAL CONTRACTOR SHALL SURVEY EXISTING ELECTRICAL RACEWAYS FOR UTILIZATION. IF DEEMED TO REMAIN BY OWNER PROVIDE RELOCATION OF CONDUITS AROUND CONSTRUCTION AREAS AND PROTECTION OF CIRCUITS DURING CONSTRUCTION PHASES.
- 2. ELECTRICAL CONTRACTOR SHALL PROVIDE REMOVAL AND REINSTALLATION OF SPEAKER AS REQUIRED FOR CONSTRUCTION IN AREA, PROVIDE PROTECTION OF CIRCUIT AND DEVICE DURING CONSTRUCTION PHASES.
- 3. ELECTRICAL CONTRACTOR SHALL PROVIDE REMOVAL OF 200 AMP DISCONNECT AND UNDERGROUND FEEDER BACK TO MAIN DISTRIBUTION PANEL. VERIFY EXISTING BRANCH CIRCUITS ARE BEING DEMOED UNDER CURRENT CONSTRUCTION. PROVIDE EXTENSION OF ANY SMALL BRANCH CIRCUITS TO PANEL IN NEW ADDITION.
- PROVIDE REMOVAL OF EXISTING FACP FOR INSTALLATION OF NEW FACP WITH VOICE NOTIFICATION. VERIFY FINAL REQUIREMENTS WITH SIEMENS FIRE ALARM SUPPLIER AND SYSTEMS PLANS.
- 5. EXISTING AG SHOP ELECTRICAL TO REMAIN IN WORKING ORDER FOR SCHOOL USE DURING CONSTRUCTION. PROVIDE PROTECTION OF EXISTING FEEDER FROM MAIN SWB. SEE SITE PLAN EM101 FOR ADDITIONAL INFORMATION.
- STAGE PANEL: PROVIDE REMOVAL AND REPLACEMENT OF EXISTING STAGE PANELS. SEE PANEL SCHEDULE AND POWER PLAN FOR ADDITIONAL INFORMATION. PROVIDE EXTENSION OF ALL BRANCH CIRCUITING AS REQUIRED FOR CONNECTION TO NEW PANEL.
- 7. TEMPORARY GYM HEAT: PROVIDE 120 VOLT, 20 AMP CONNECTION FROM EXG PNL 'L3' OR NEAREST DEDICATED 120 VOLT BRANCH CIRCUIT. PROVIDE 20 AMP RATED TOGGLE DISCONNECT AT HEATER.

ELECTRICAL GENERAL NOTES

- A. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY THE A/E IMMEDIATELY OF ANY DISCREPANCIES, INCLUDING ANY NECESSARY DEMOLITION.
- REMOVE ELECTRICAL EQUIPMENT IN THE AREAS SHOWN ON THE PLAN, DISCONNECT CIRCUITS AND CONDUITS AND REMOVE TO A POINT OUT OF THE WAY OF THE GENERAL DEMOLITION. MARK ON THE PLAN TO CLEARLY SHOW WHERE THESE CIRCUITS ARE STOPPED. DISCONNECT THE POWER AND LIGHTING CIRCUITS IN THE PANELS TO ASSURE THAT THERE IS NO DANGER FROM ELECTRICAL SHOCK HAZARD PRESENT. DEMOLITION WORK SHALL BE COORDINATED WITH THE OWNER. SHOULD QUESTIONS ARISE REGARDING THE REMOVAL OF EQUIPMENT, CONFER WITH THE OWNER BEFORE SUCH EQUIPMENT IS DEMOLISHED. MATERIALS REMOVED BY DEMOLITION SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE SPECIFICALLY NOTED. MATERIAL THE OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED AND DISPOSED OF PROPERLY BY THE CONTRACTOR.
- CONTRACTOR.

 C. EQUIPMENT SHOWN ON DRAWINGS AS EXISTING IS BASED ON EXISTING PLANS AND LIMITED FIELD INVESTIGATION. THE FIELD SURVEY WAS CONDUCTED TO VERIFY, AS MUCH AS POSSIBLE, THE ACCURACY OF THE LOCATIONS SHOWN. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THE "EXISTING CONDITIONS" AS SHOWN ON THE DRAWINGS AS THE DEMOLITION WORK PROGRESSES. PERFORM MODIFICATIONS AND ADDITIONS AS NECESSARY TO CORRECT FOR THESE HIDDEN CONDITIONS AND ALLOW FOR THE COMPLETION OF THE NEW WORK.
- D. THE EXISTING BUILDING WILL BE IN USE DURING THIS CONSTRUCTION. SCHEDULE AND CARRY OUT THE WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO SERVICE INTERRUPTIONS. TEMPORARY SERVICES SHALL BE INSTALLED IF ONE PHASE OF CONSTRUCTION DISRUPTS SERVICE TO ANOTHER AREA OF THE BUILDING OR IF EQUIPMENT HAS TO BE RELOCATED TO ALLOW CONSTRUCTION TO PROGRESS. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST
 - REPRESENTATIVE. AFTER SERVICE HAS BEEN RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION AND BE RESPONSIBLE FOR RETURNING AUTOMATICALLY CONTROLLED EQUIPMENT TO THE SAME OPERATING CONDITION, WHICH EXISTED PRIOR TO THE INTERRUPTION.

 PROVIDE PENETRATIONS TO THE BUILDING STRUCTURE AS

AREA POSSIBLE AT ANY ONE TIME AND INTERRUPTIONS

SHALL BE SCHEDULED WITH THE OWNER'S SITE

TEMPORARY SYSTEMS ARE BEING DEMOLISHED, WHICH LEAVE OPENINGS IN THE EXISTING BUILDING STRUCTURE, THE BUILDING STRUCTURE SHALL BE PATCHED TO MATCH THE EXISTING CONSTRUCTION AND MAINTAIN THE EXISTING BUILDING FIRE RATINGS.

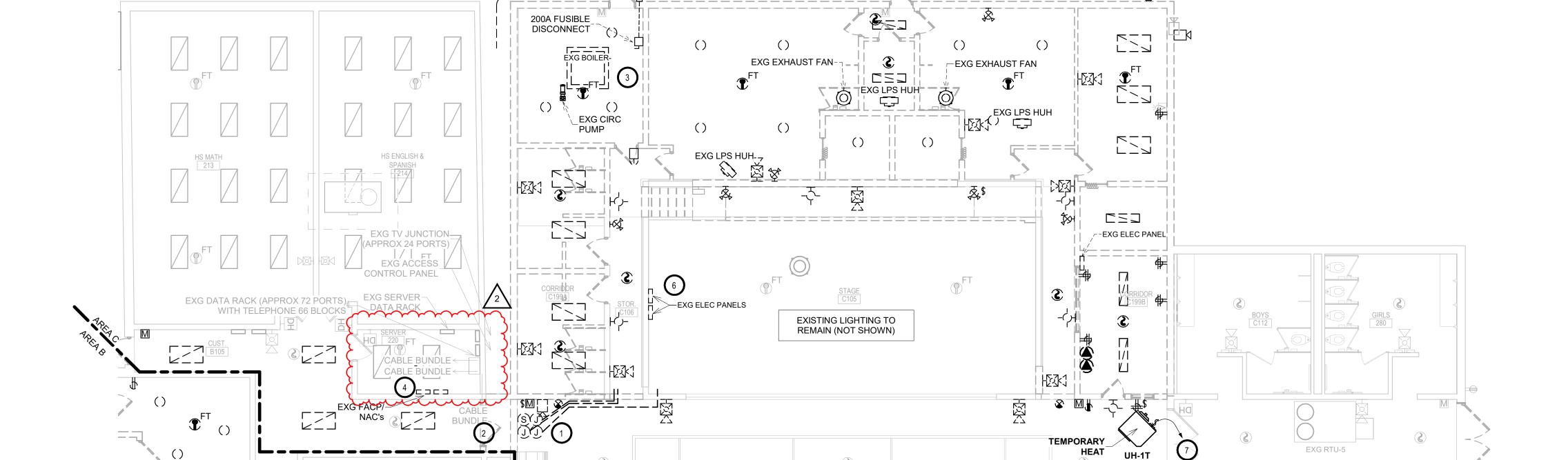
F. ALL ELECTRICAL WORK SHALL BE INSTALLED IN STRICT

ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, NFPA

AND NEC CODES, AND THE AUTHORITY HAVING

JURISDICTION.

REQUIRED FOR INSTALLATION. WHERE EXISTING OR

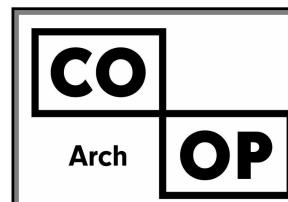


AREA C - ELECTRICAL DEMOLITION PLAN

EXG LB DOWN TO MAIN SWB

A B E

AREA E



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440 E. 8th St 221 Sioux Falls, SD 57103 Phone: 605-334-9999

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ISSUE:

1/30/23 CONSTRUCTION DOCUMENTS

Addendum ME2

REVISION SCHEDULE:

EVISION SCHEDULE
EV. # REV. DSC.
1 Addendum ME 1

PROJECT:

WILLOW LAKE SCHOOL ADDITION

WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

AREA C & D - ELECTRICAL DEMOLITION PLAN

E202CD

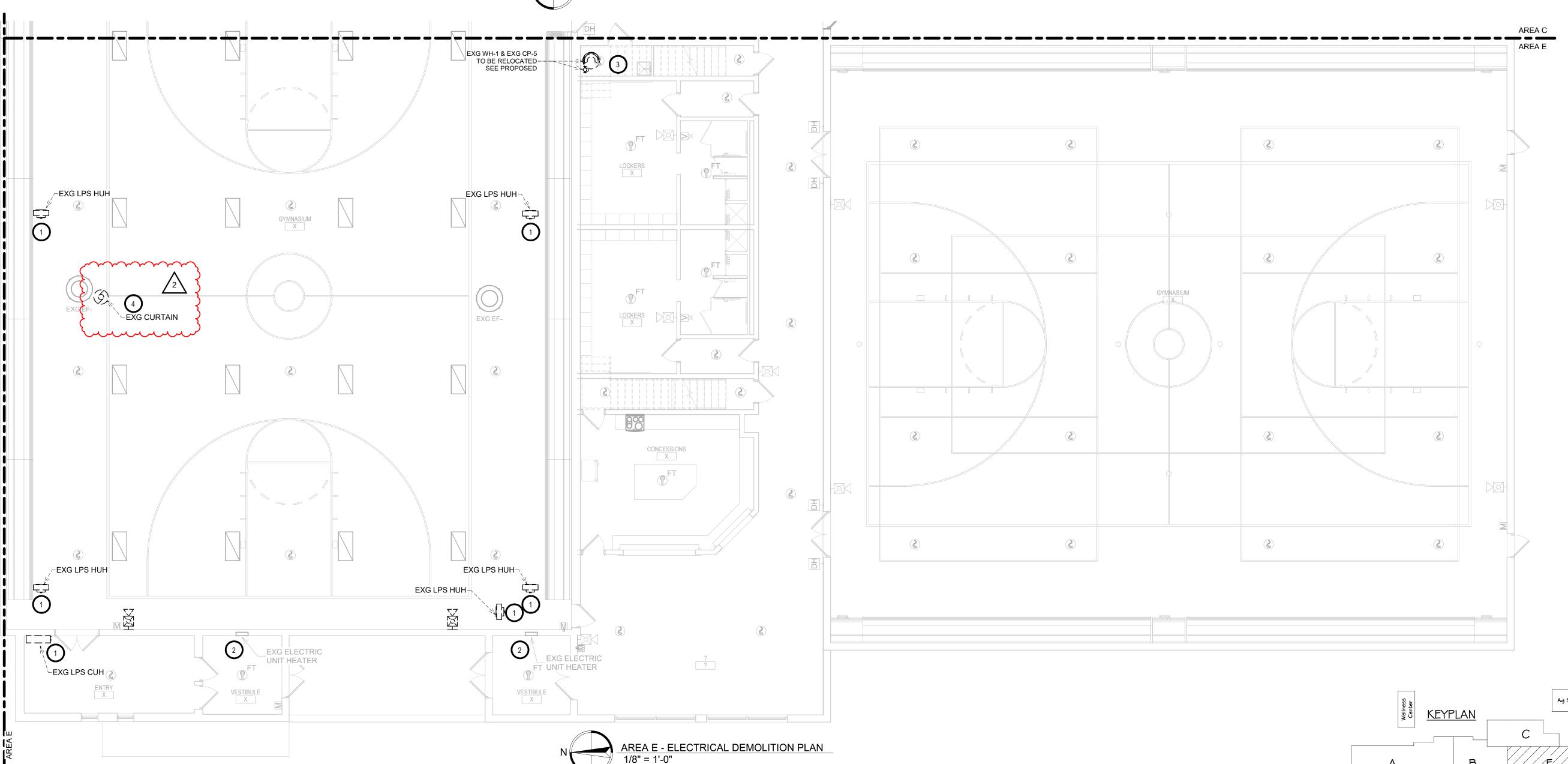
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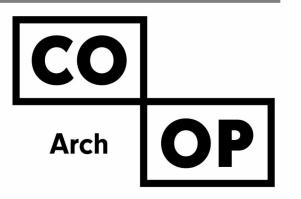
AREA E - MEZZANINE ELECTRICAL DEMOLITION PLAN 1/8" = 1'-0"

KEYNOTES

- 1. PROVIDE DISCONNECTION OF EXISTING HEATER AND REMOVE EXISTING BRANCH CIRCUIT BACK TO SOURCE.
- 2. ELECTRIC HEATER TO REMAIN.
- 3. PROVIDE DISCONNECTION OF WATER HEATER AND PUMP FOR RELOCATION, VERIFY FINAL REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO DISCONNECTION. UPDATE PANEL 'L3' SCHEDULE ACCORDINGLY WITH NEW PRINTED SCHEDULE.
- 4. POWER CURTAIN: PROVIDE DISCONNECTION AND REMOVAL OF EXISTING 208 VOLT SINGLE PHASE CIRCUIT AND REMOVAL BACK TO SOURCE. COORDINATE FINAL REQUIREMENTS IN FIELD WITH GENERAL CONTRACTOR.

- **ELECTRICAL GENERAL NOTES**
- A. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY THE A/E IMMEDIATELY OF ANY DISCREPANCIES, INCLUDING ANY NECESSARY DEMOLITION.
- B. REMOVE ELECTRICAL EQUIPMENT IN THE AREAS SHOWN ON THE PLAN, DISCONNECT CIRCUITS AND CONDUITS AND REMOVE TO A POINT OUT OF THE WAY OF THE GENERAL DEMOLITION. MARK ON THE PLAN TO CLEARLY SHOW WHERE THESE CIRCUITS ARE STOPPED. DISCONNECT THE POWER AND LIGHTING CIRCUITS IN THE PANELS TO ASSURE THAT THERE IS NO DANGER FROM ELECTRICAL SHOCK HAZARD PRESENT. DEMOLITION WORK SHALL BE COORDINATED WITH THE OWNER. SHOULD QUESTIONS ARISE REGARDING THE REMOVAL OF EQUIPMENT, CONFER WITH THE OWNER BEFORE SUCH EQUIPMENT IS DEMOLISHED. MATERIALS REMOVED BY DEMOLITION SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE SPECIFICALLY NOTED. MATERIAL THE OWNER DOES NOT WISH TO RETAIN SHALL BE REMOVED AND DISPOSED OF PROPERLY BY THE CONTRACTOR.
- EQUIPMENT SHOWN ON DRAWINGS AS EXISTING IS BASED ON EXISTING PLANS AND LIMITED FIELD INVESTIGATION. THE FIELD SURVEY WAS CONDUCTED TO VERIFY, AS MUCH AS POSSIBLE, THE ACCURACY OF THE LOCATIONS SHOWN. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF THE "EXISTING CONDITIONS" AS SHOWN ON THE DRAWINGS AS THE DEMOLITION WORK PROGRESSES. PERFORM MODIFICATIONS AND ADDITIONS AS NECESSARY TO CORRECT FOR THESE HIDDEN CONDITIONS AND ALLOW FOR THE COMPLETION OF THE NEW WORK.
- D. THE EXISTING BUILDING WILL BE IN USE DURING THIS CONSTRUCTION. SCHEDULE AND CARRY OUT THE WORK IN SUCH A MANNER AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO SERVICE INTERRUPTIONS. TEMPORARY SERVICES SHALL BE INSTALLED IF ONE PHASE OF CONSTRUCTION DISRUPTS SERVICE TO ANOTHER AREA OF THE BUILDING OR IF EQUIPMENT HAS TO BE RELOCATED TO ALLOW CONSTRUCTION TO PROGRESS. SERVICE INTERRUPTIONS SHALL BE CONFINED TO THE SMALLEST AREA POSSIBLE AT ANY ONE TIME AND INTERRUPTIONS SHALL BE SCHEDULED WITH THE OWNER'S SITE REPRESENTATIVE. AFTER SERVICE HAS BEEN RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION AND BE RESPONSIBLE FOR RETURNING AUTOMATICALLY CONTROLLED EQUIPMENT TO THE SAME OPERATING CONDITION, WHICH EXISTED PRIOR TO THE INTERRUPTION.
- E. PROVIDE PENETRATIONS TO THE BUILDING STRUCTURE AS REQUIRED FOR INSTALLATION. WHERE EXISTING OR TEMPORARY SYSTEMS ARE BEING DEMOLISHED, WHICH LEAVE OPENINGS IN THE EXISTING BUILDING STRUCTURE, THE BUILDING STRUCTURE SHALL BE PATCHED TO MATCH THE EXISTING CONSTRUCTION AND MAINTAIN THE EXISTING BUILDING FIRE BATINGS
- F. ALL ELECTRICAL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, NFPA AND NEC CODES, AND THE AUTHORITY HAVING JURISDICTION.





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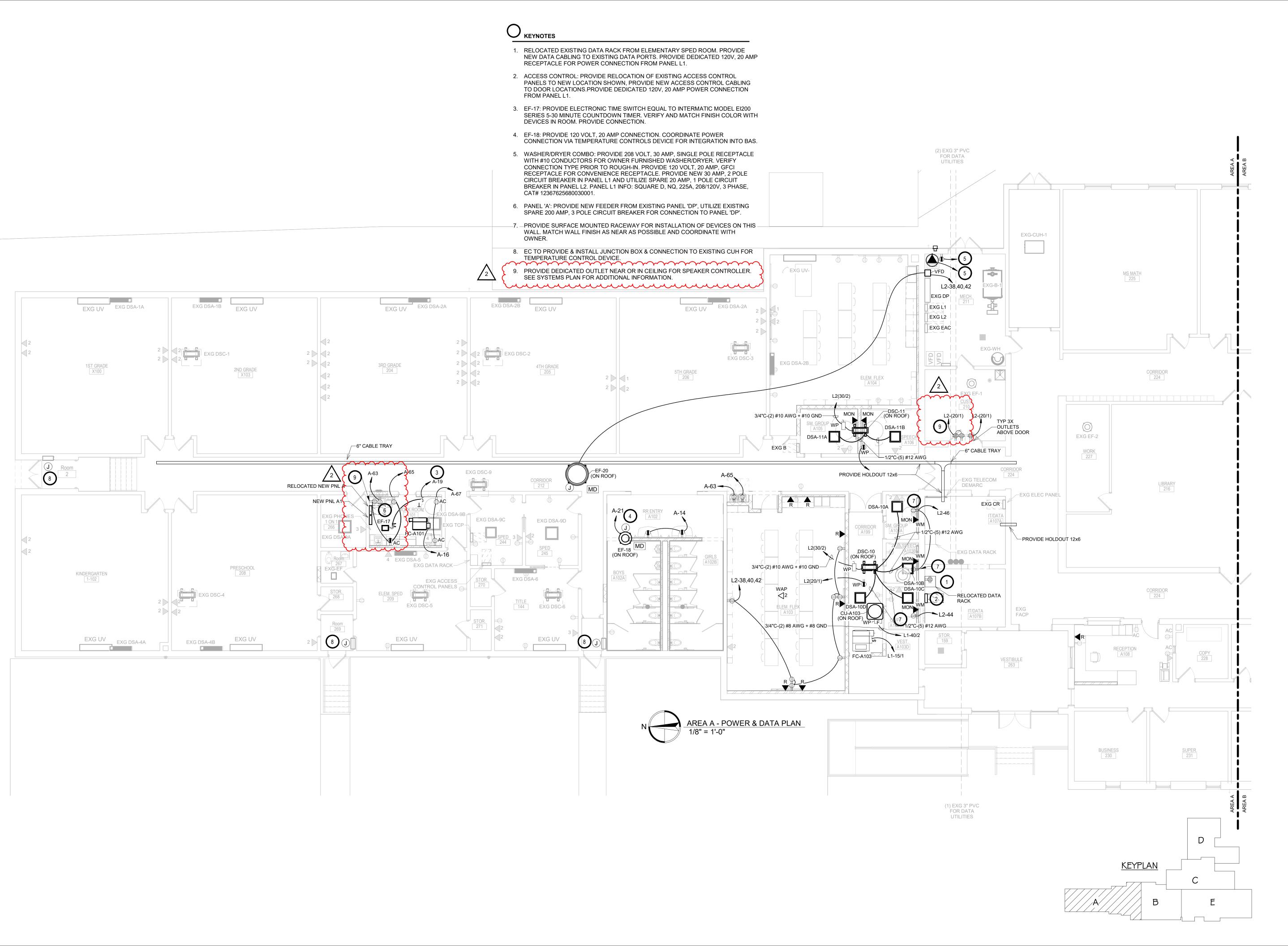
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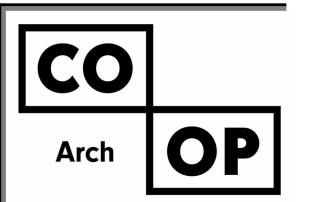
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SHEET TITLE:

AREA E - ELECTRICAL DEMOLITION PLAN

E203E





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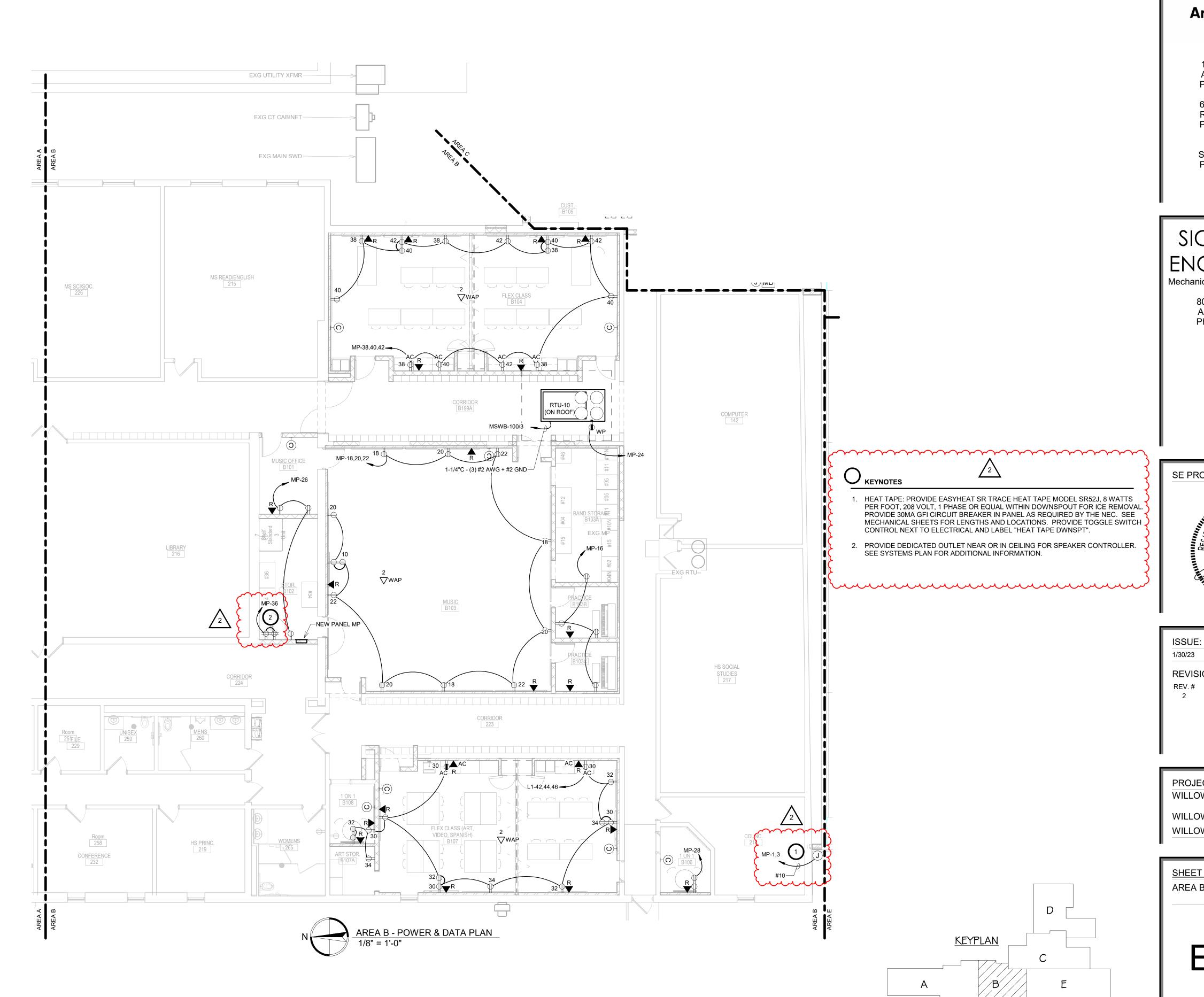
WILLOW LAKE SCHOOL ADDITION

WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

AREA A - POWER & DATA PLAN

E300A



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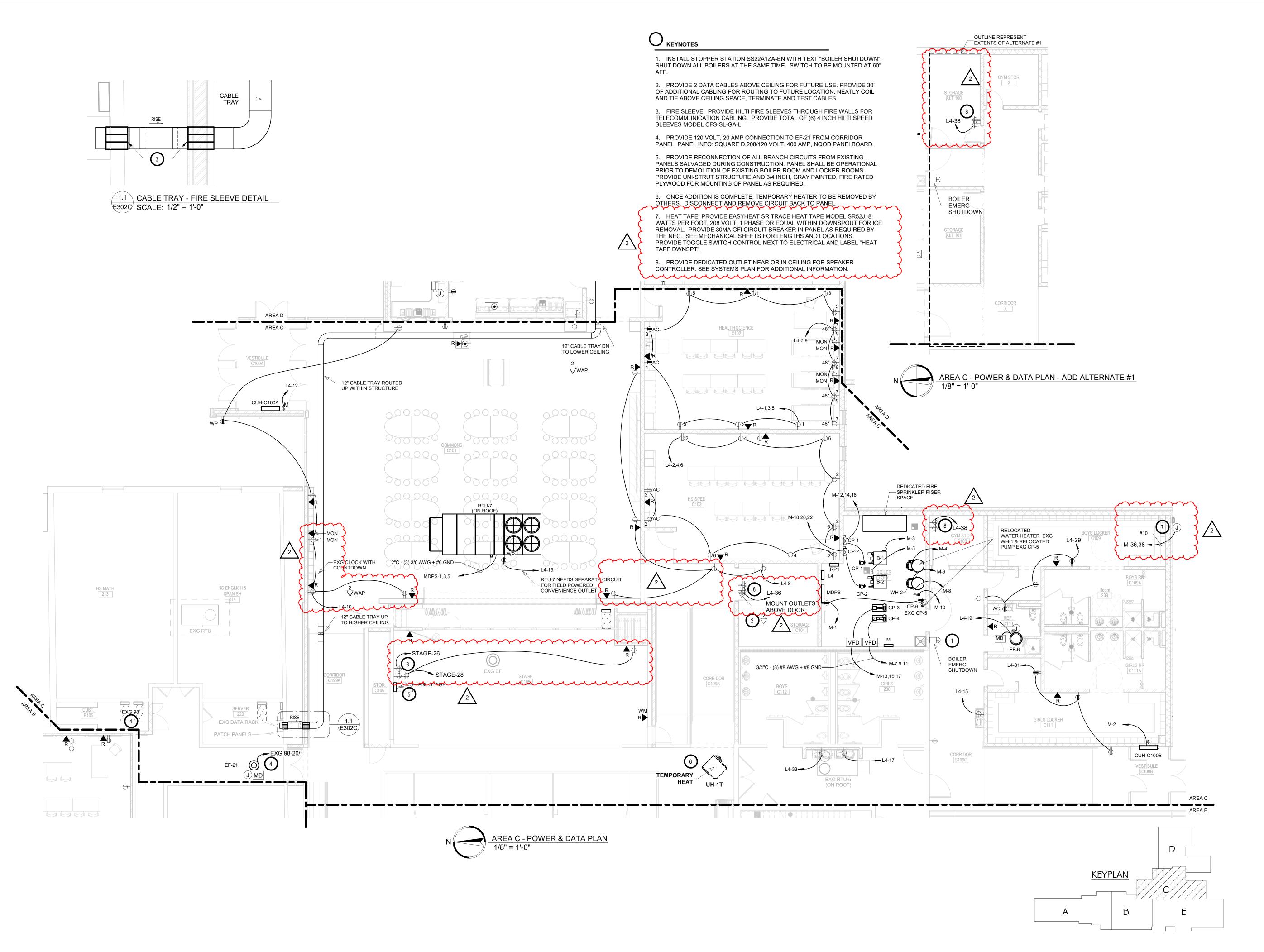
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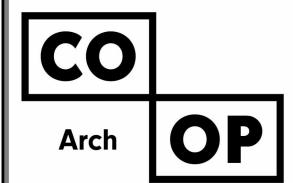
WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

AREA B - POWER & DATA PLAN

E301B





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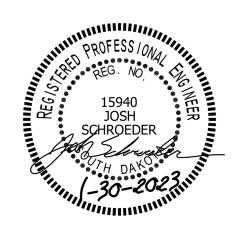
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WILLOW LAKE SCHOOL ADDITION

WILLOW LAKESCHOOL DISTRICT

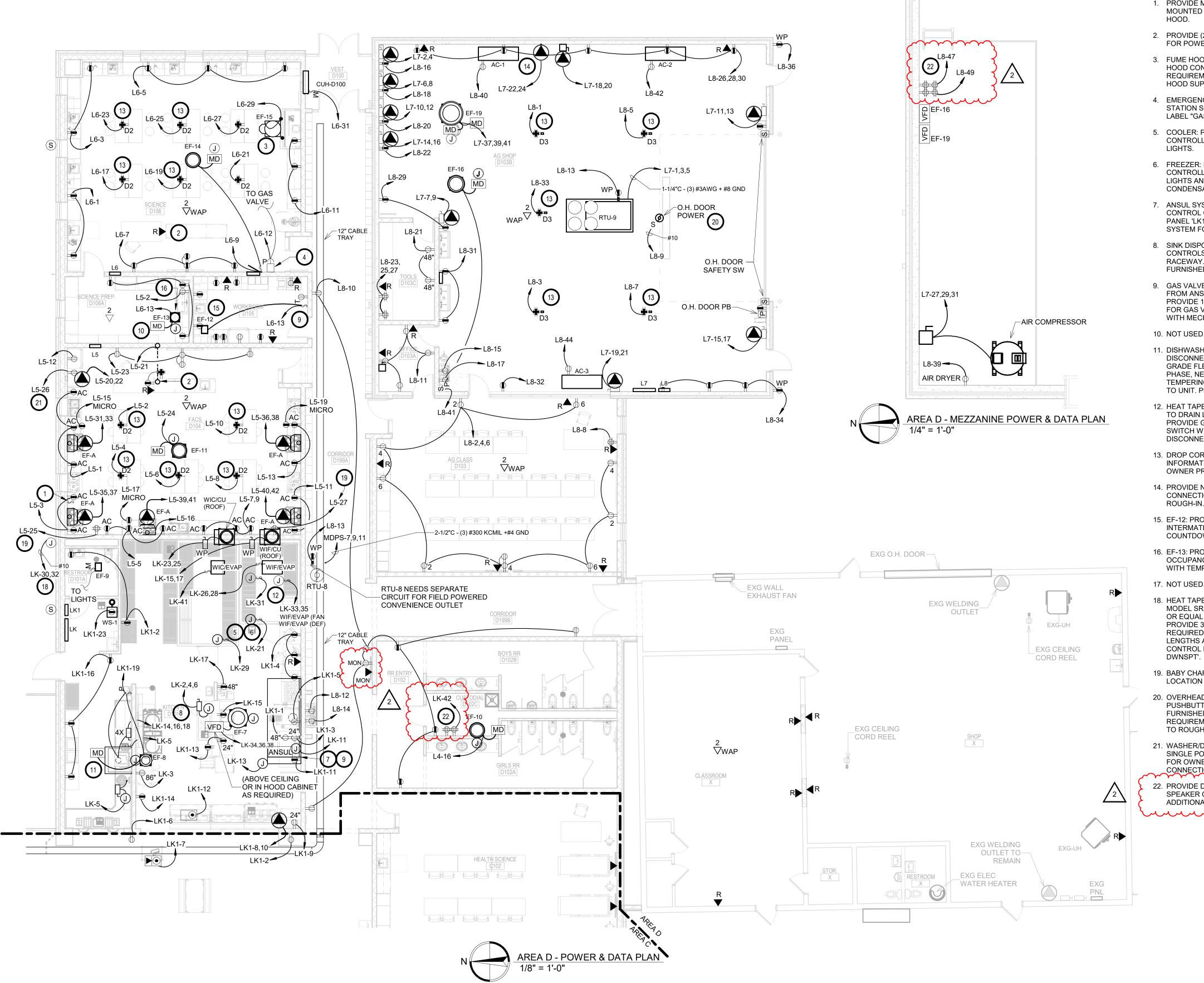
WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

PROJECT:

AREA C - POWER & DATA PLAN

E302C





- 1. PROVIDE MOTOR RATED PILOT SWITCH AT ADA HEIGHT MOUNTED ON WALL BESIDE HOOD TO OPERATE THE
- 2. PROVIDE (2) 1 INCH CONDUITS TO TEACHERS STATION FOR POWER AND DATA CABLE ROUTING.
- 3. FUME HOOD: PROVIDE INTERCONNECT BETWEEN HOOD CONTROLS AND EF-15. COORDINATE FINAL REQUIREMENTS WITH MECHANICAL CONTRACTOR AND HOOD SUPPLIER.
- 4. EMERGENCY GAS SHUTDOWN PROVIDE STI STOPPER STATION SS2241ZA-EN, OR EQUAL, WITH CUSTOM LABEL "GAS SHUTDOWN".
- 5. COOLER: PROVIDE CONNECTION TO COOLER CONTROLLER, DEFROSTER, SOLENOIDS, AND COOLER LIGHTS.
- 6. FREEZER: PROVIDE CONNECTION TO FREEZER CONTROLLER, DEFROSTER, SOLENOIDS, COOLER LIGHTS AND PROVIDE 8 WATT SR HEAT TRACE FOR CONDENSATE LINES.
- 7. ANSUL SYSTEM: PROVIDE CONNECTION VIA ANSUL CONTROL CONTACTS FOR SHUNT-TRIP ACTIVATION OF PANEL 'LK1'. PROVIDE CONNECTION TO FIRE ALARM SYSTEM FOR MONITORING AND CONTROL.
- 8. SINK DISPOSER: PROVIDE INSTALLATION OF DISPOSER CONTROLS VIA LIQUID-TITE FOOD GRADE FLEXIBLE RACEWAY. COMBINATION DISCONNECT/CONTROLLER FURNISHED BY FOOD SERVICE SUPPLIER.
- 9. GAS VALVE SOLENOID: PROVIDE CONTROL WIRING FROM ANSUL SYSTEM FOR GAS VALVE CONTROL. PROVIDE 120 VOLT POWER CONNECTION AS REQUIRED FOR GAS VALVE. COORDINATE GAS VALVE LOCATION WITH MECHANICAL CONTRACTOR.

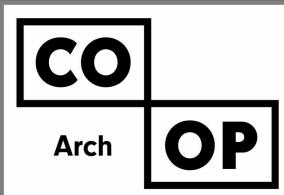
10. NOT USED.

- 11. DISHWASHER/HEATER: PROVIDE CONNECTION FROM DISCONNECT TO DISHWASHER VIA LIQUID-TITE FOOD GRADE FLEXIBLE RACEWAY. PROVIDE 60 AMP, 208V, 3 PHASE, NEMA 4X DISCONNECT BY EC. DRAIN TEMPERING: PROVIDE 120 VOLT 20 AMP CONNECTION TO UNIT. PROVIDE DISCONNECT AS REQUIRED.
- 12. HEAT TAPE: PROVIDE 120 VOLT, 20 AMP CONNECTION TO DRAIN LINE HEAT TAPE (BY KITCHEN EQ. SUPPLIER). PROVIDE GFI PROTECTION PER 2020 NEC, PROVIDE SWITCH WITH LABEL IDENTIFYING "HEAT TAPE DISCONNECT".
- 13. DROP CORD: SEE DETAILS PAGE FOR DROP CORD INFORMATION. VERIFY FINAL LOCATION IN FIELD WITH OWNER PRIOR TO ROUGH-IN.
- 14. PROVIDE NEMA L7-20 RECEPTACLE FOR EQUIPMENT CONNECTION, VERIFY RECEPTACLE TYPE PRIOR TO ROUGH-IN.
- 15. EF-12: PROVIDE ELECTRONIC TIME SWITCH EQUAL TO INTERMATIC MODEL EI200 SERIES 5-30 MINUTE COUNTDOWN TIMER.
- 16. EF-13: PROVIDE 120 VOLT, 20 AMP CONNECTION FROM OCCUPANCY SENSOR, COORDINATE BAS CONNECTION WITH TEMPERATURE CONTROLS CONTRACTOR.

17. NOT USED.

- 18. HEAT TAPE: PROVIDE EASYHEAT SR TRACE HEAT TAPE MODEL SR52J, 8 WATTS PER FOOT, 208 VOLT, 1 PHASE OR EQUAL WITHIN DOWNSPOUT FOR ICE REMOVAL. PROVIDE 30MA GFI CIRCUIT BREAKER IN PANEL AS REQUIRED BY THE NEC. SEE MECHANICAL SHEETS FOR LENGTHS AND LOCATIONS. PROVIDE TOGGLE SWITCH CONTROL NEXT TO ELECTRICAL AND LABEL 'HEAT TAPE
- 19. BABY CHARGING STATIONS: COORDINATE FINAL LOCATION IN FIELD WITH OWNER PRIOR TO ROUGH-IN.
- 20. OVERHEAD DOOR: PROVIDE POWER RECEPTACLE, PUSHBUTTON CONTROLLER, INSTALLATION OF FURNISHED SAFETY EYES/STRIP. COORDINATE POWER REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
- 21. WASHER/DRYER COMBO: PROVIDE 208 VOLT, 30 AMP, SINGLE POLE RECEPTACLE WITH #10 CONDUCTORS FOR OWNER FURNISHED WASHER/DRYER. VERIFY CONNECTION TYPE PRIOR TO ROUGH-IN.
- 22. PROVIDE DEDICATED OUTLET NEAR OR IN CEILING FOR SPEAKER CONTROLLER. SEE SYSTEMS PLAN FOR ADDITIONAL INFORMATION.

<u>KEYPLAN</u>



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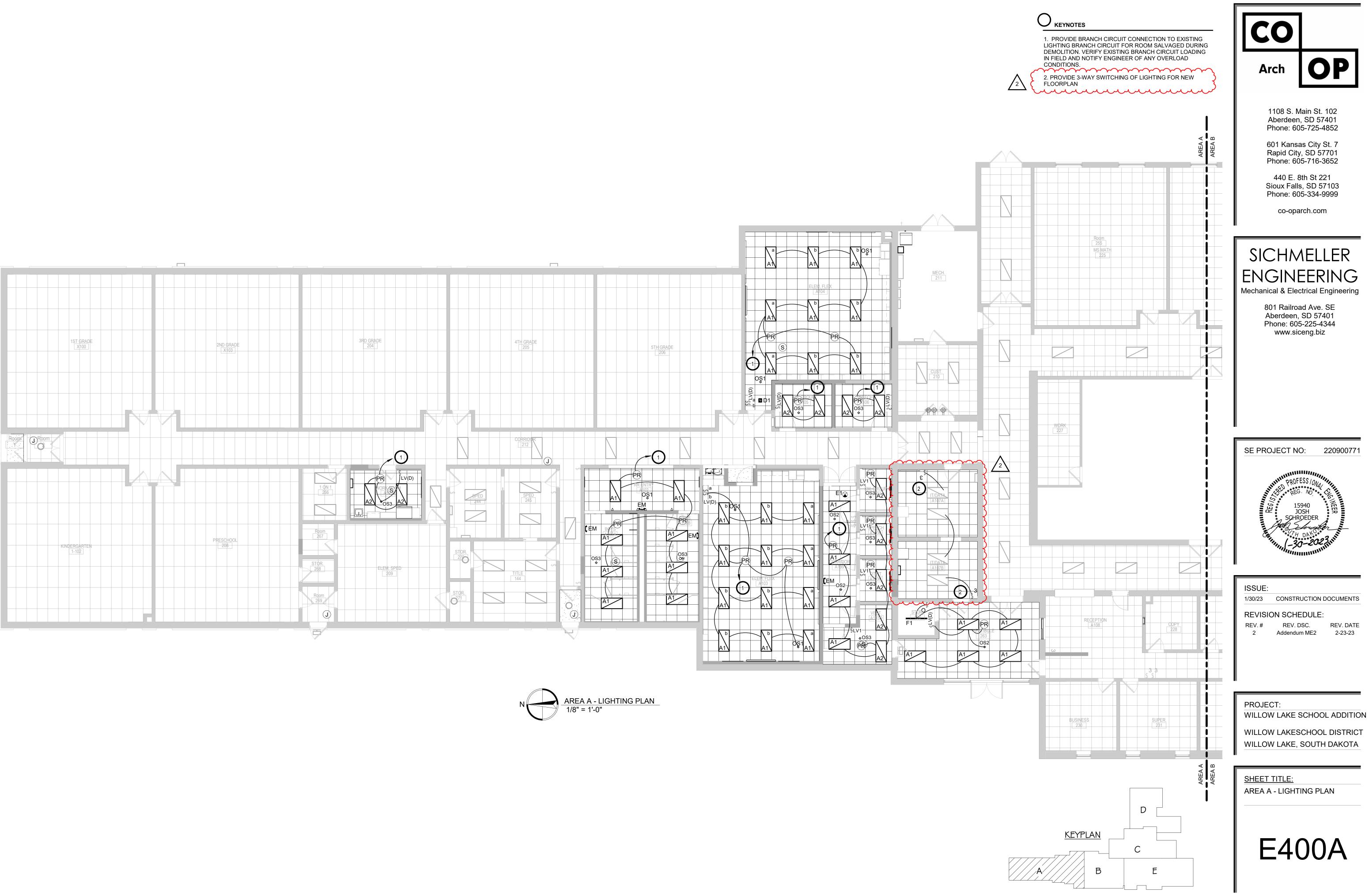
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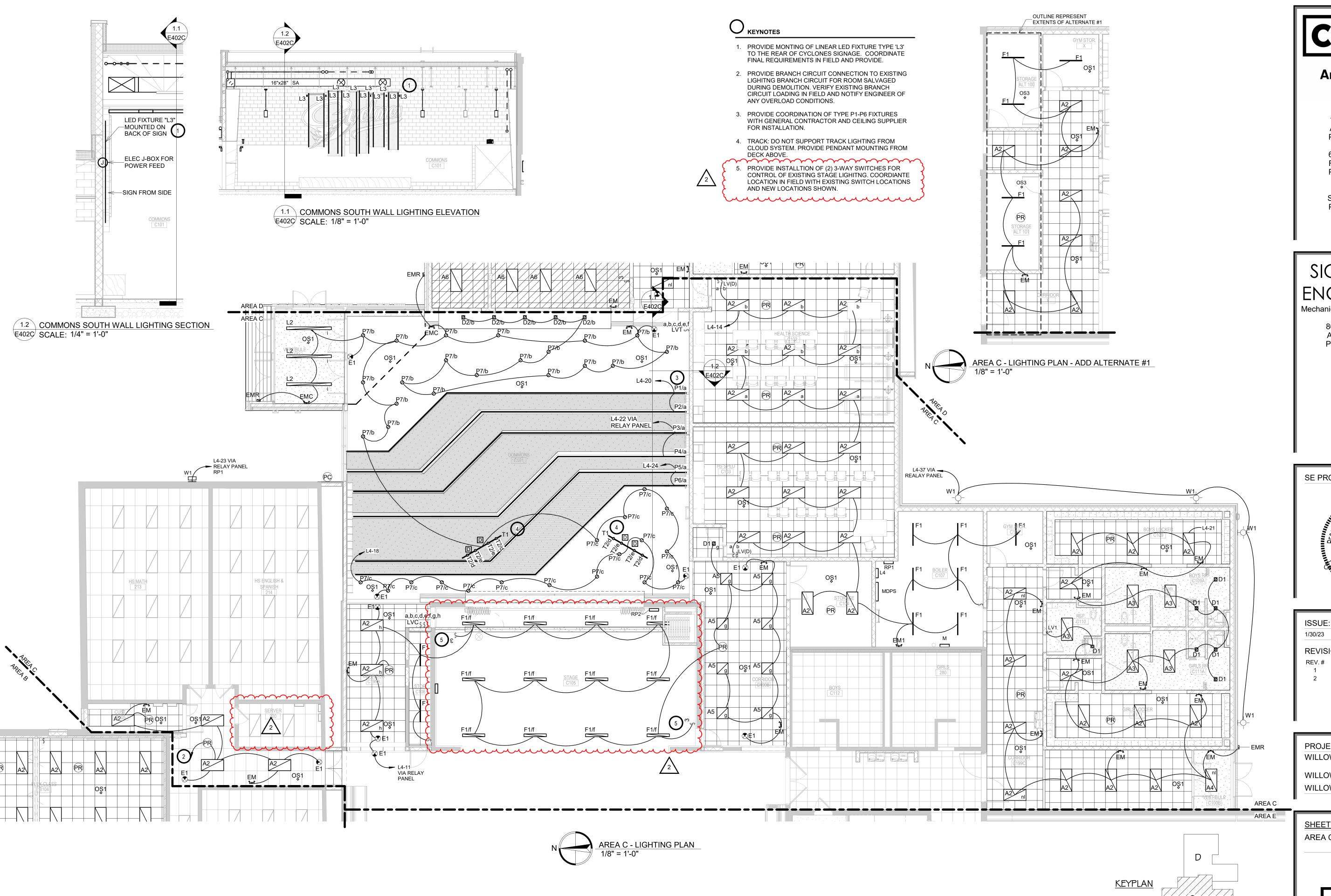
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SHEET TITLE:

AREA D - POWER & DATA PLAN

E303D





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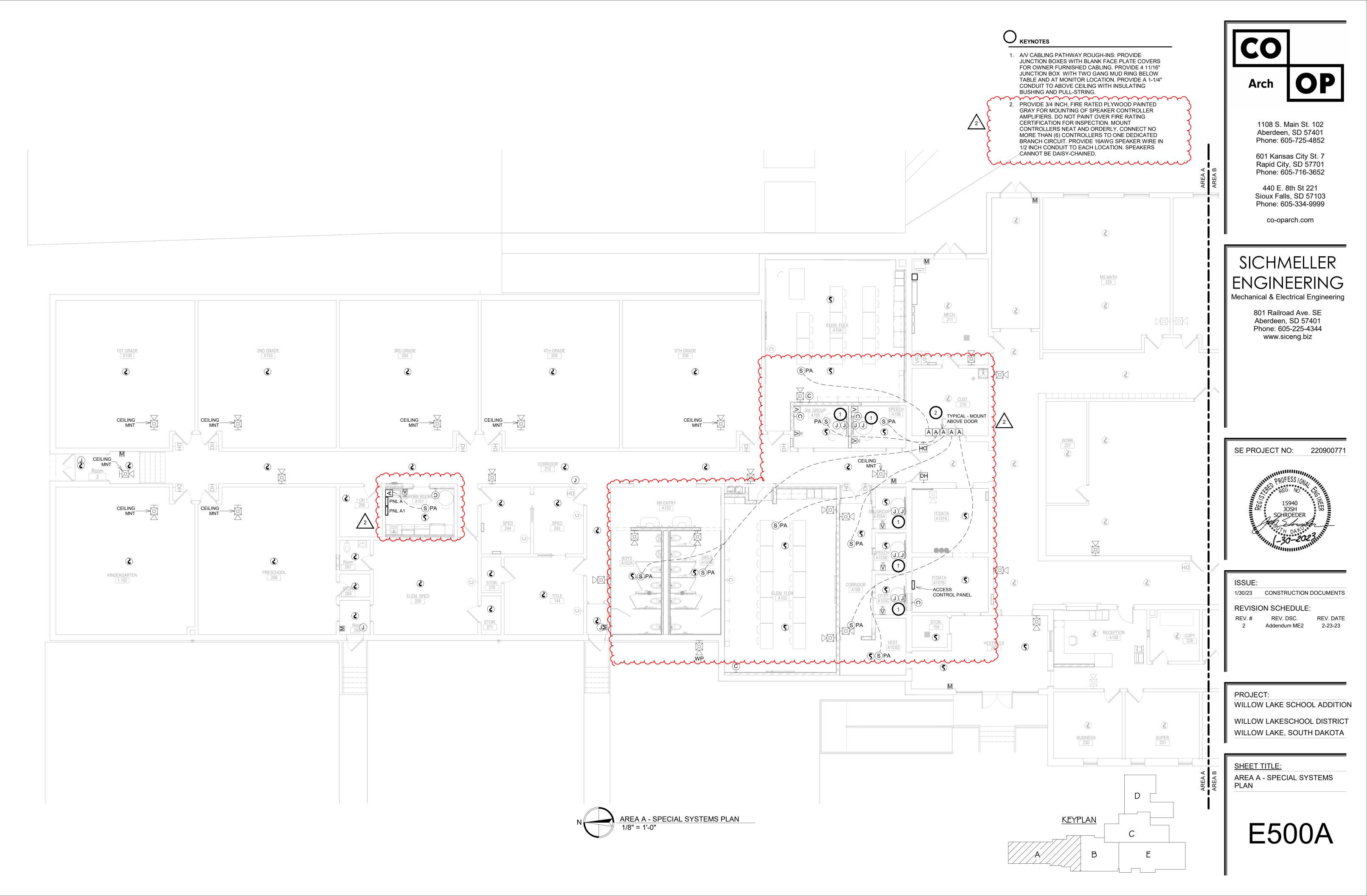
WILLOW LAKE SCHOOL ADDITION

WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

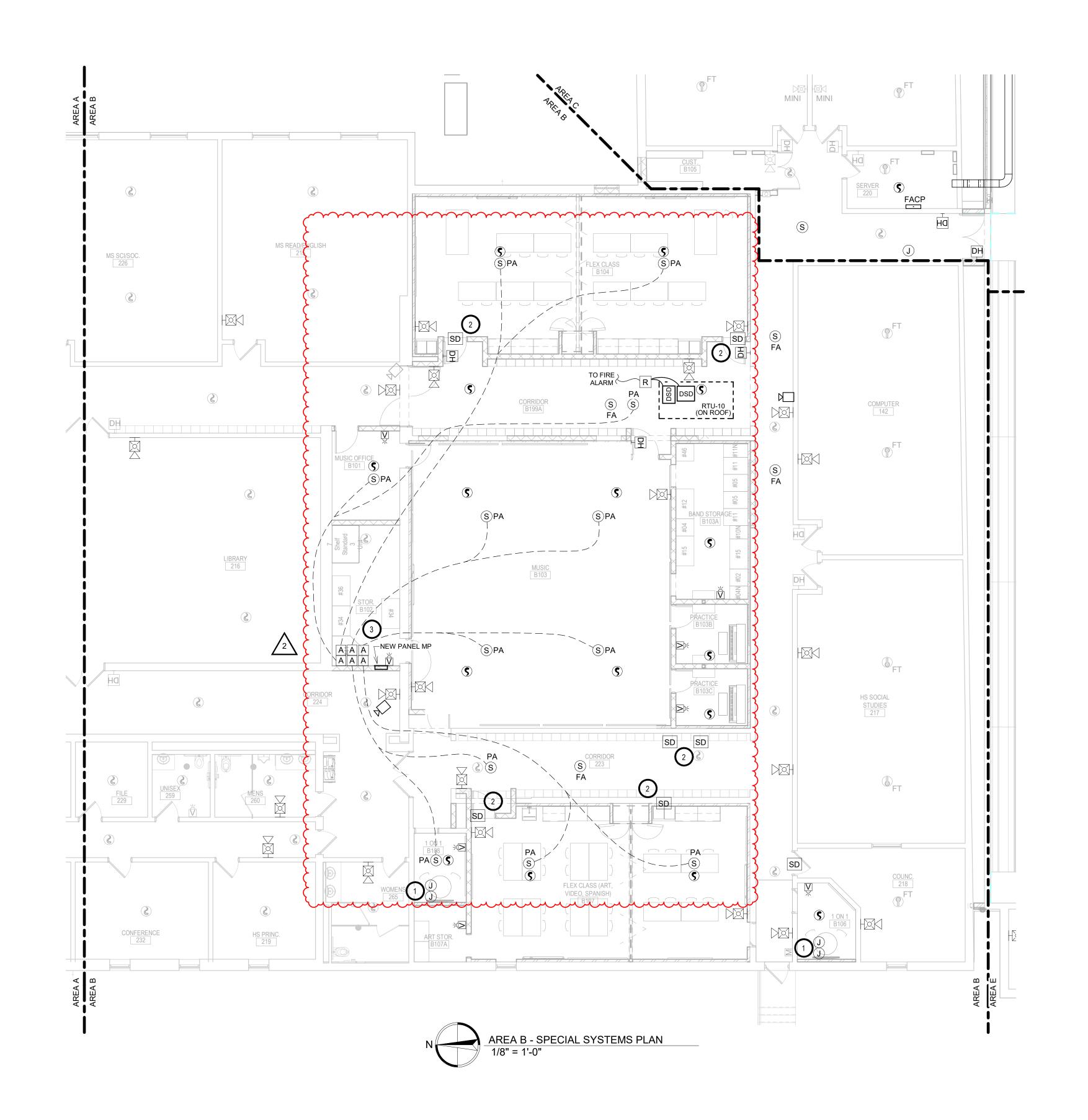
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AREA C - LIGHTING PLAN

E402C



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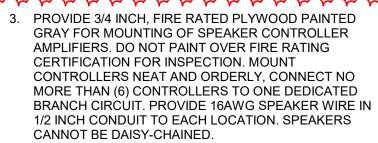


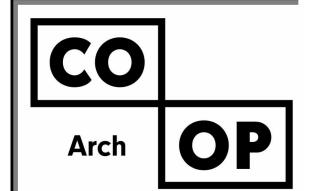
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- A/V CABLING PATHWAY ROUGH-INS: PROVIDE JUNCTION BOXES WITH BLANK FACE PLATE COVERS FOR OWNER FURNISHED CABLING. PROVIDE 4 11/16" JUNCTION BOX WITH TWO GANG MUD RING BELOW TABLE AND AT MONITOR LOCATION. PROVIDE A 1-1/4" CONDUIT TO ABOVE CEILING WITH INSULATING BUSHING AND PULL-STRING.
- 2. TYPICAL SMOKE DAMPERS ARE 120V POWER OPEN.
 USE MONITOR MODULE/FIRE ALARM RELAY TO OPEN
 120V POWER ON ALARM. PROVIDE BRANCH CIRCUIT
 WIRING TO NEAREST 120 VOLT PANEL, PROVIDE NO
 MORE THAN (3) DAMPERS PER 20 AMP CIRCUIT. SEE
 PANEL SCHEDULE FOR CIRCUIT LOCATIONS.

<u>KEYPLAN</u>





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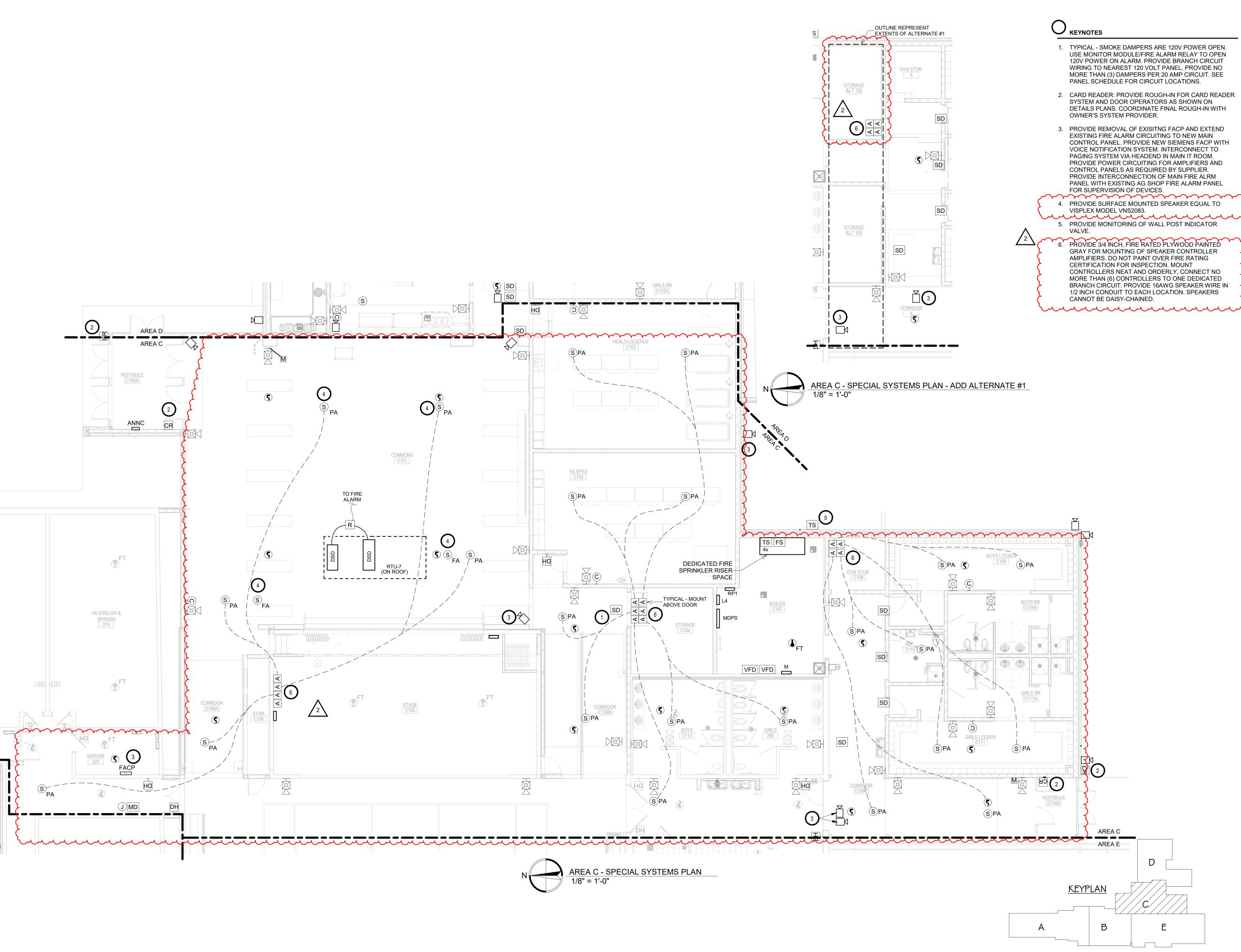
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WILLOW LAKESCHOOL DISTRICT
WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

AREA B - SPECIAL SYSTEMS

E501B



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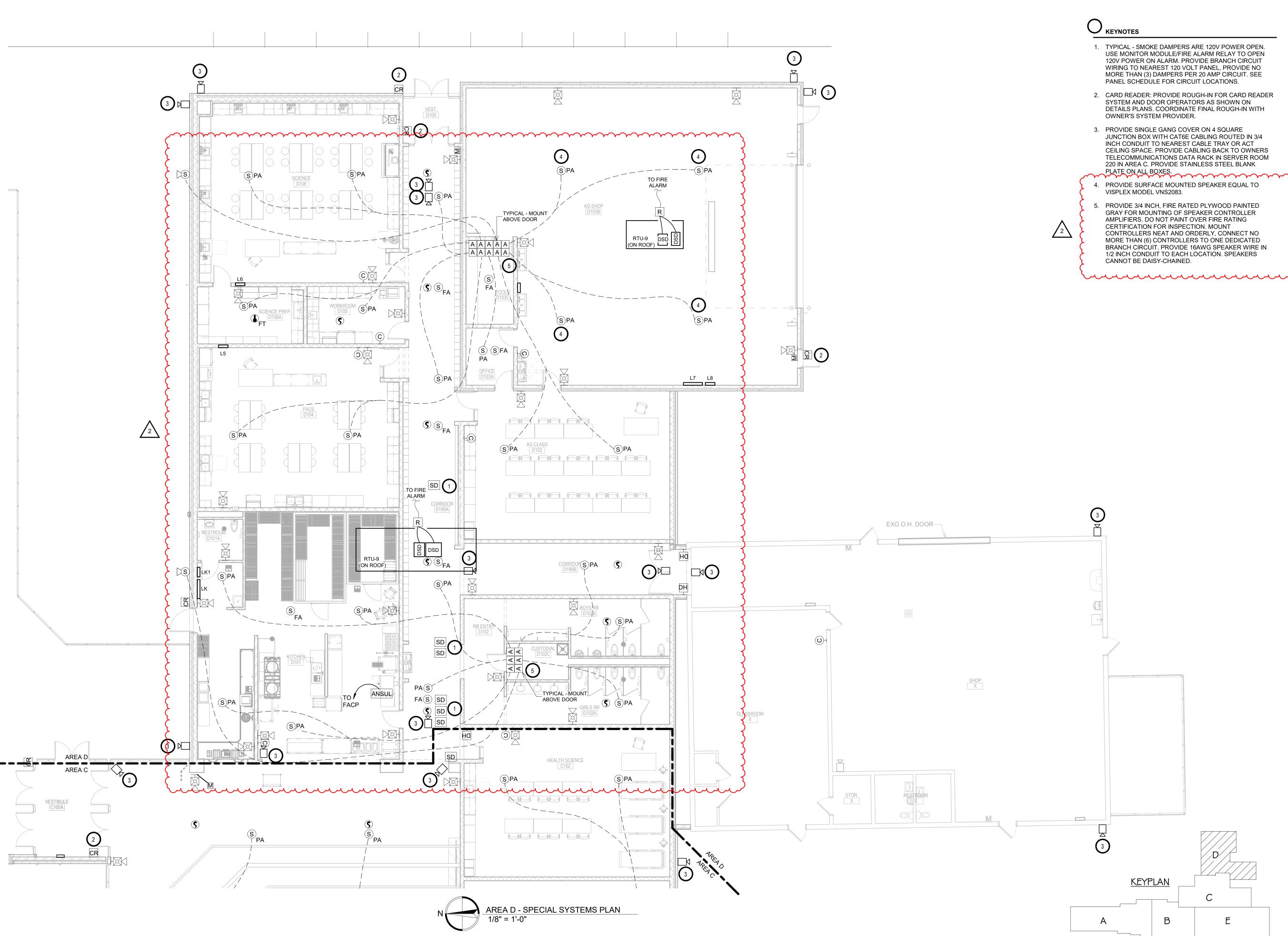
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WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

AREA C - SPECIAL SYSTEMS PLAN

E502C





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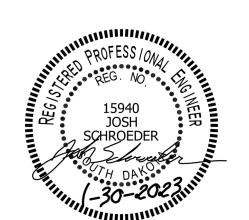
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WILLOW LAKE SCHOOL ADDITION

WILLOW LAKESCHOOL DISTRICT WILLOW LAKE, SOUTH DAKOTA

SHEET TITLE:

AREA D - SPECIAL SYSTEMS

E503D



ADDENDUM NO. 3, Feb 23, 2023

Project: Willow Lake School Addition

Section 114000 Food Service Equipment

The following modifications shall become a part of the Contract Documents. Bidders are to acknowledge this addendum on the bid form.

APPROVED SUBSTITUTIONS:

SECTION 3.05 ITEMIZED EQUIPMENT

ITEM 1 – Work Table Advance Tabco model # KMSLAG-302-X

ITEM 22 – Work table Advance Tabco model #KMSLAG-308-X 2 EA Drawer, model SHD-2020

ITEM 26 – Hand Sink (2 EA)
Advance Tabco model # 7-PS-70-EC
Furnished with faucets as originally specified.

ITEM 33 – Pot Rack Advance Tabco model # SW-96-EC-X

ITEM 46 – Dish Sorting Shelf Advance Tabco model # DT-42-EC-X

REVISIONS TO SPECIFICATIONS:

2.05 RELOCATE OWNER'S EXISTING EQUIPMENT

Replace Line A. with the following -

A. Electrical Contractor and Mechanical Contractor to disconnect Owner's existing equipment as part of this project. KEC shall relocate and set in place Owner's existing equipment that is to be relocated. Electrical Contractor and Mechanical Contractor to reconnect Owner's existing equipment once relocated.

END OF SECTION